COUNTY OF ONONDAGA, NEW YORK

DEPARTMENT OF DRAINAGE AND SANITATION
JOHN J. HENNIGAN JR., P. E., COMMISSIONER

BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT

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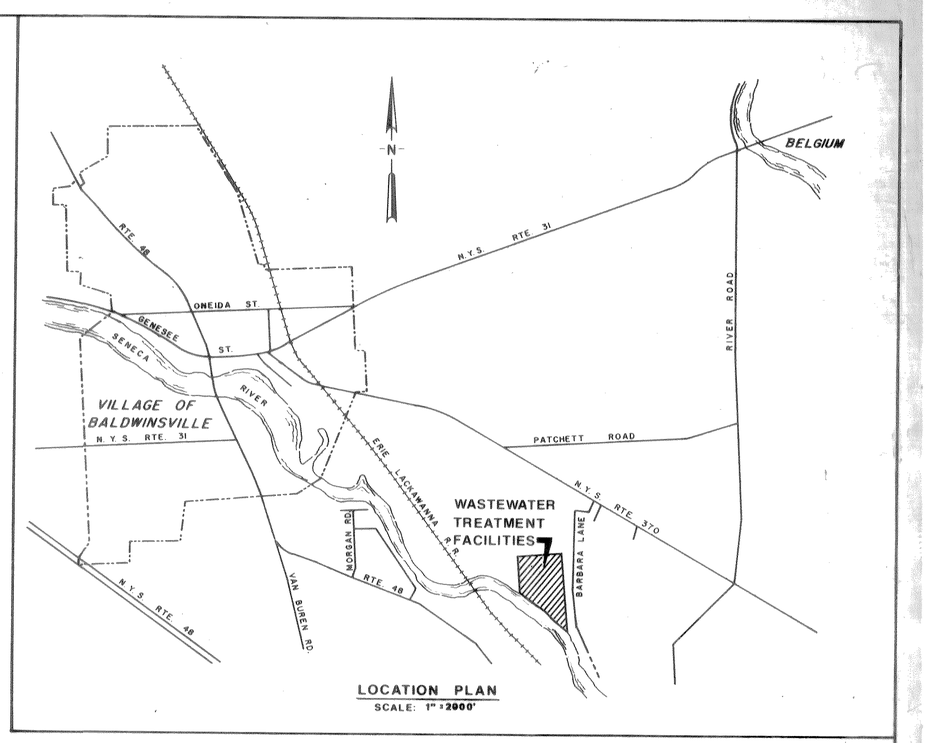

LOCATION PLAN
SCALE: 1" = 2000'

CONTRACT DRAWINGS

WASTEWATER TREATMENT FACILITIES

CONTRACT NO. 1 GENERAL
CONTRACT NO. 2 ELECTRICAL
CONTRACT NO. 3 HEATING & VENTILATING
CONTRACT NO. 4 PLUMBING

1976

APPROVED BY ONONDAGA COUNTY
DEPARTMENT OF DRAINAGE AND SANITATION

COMMISSIONER 3/26/76 DATE

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

Sterling G. Brisbin 31810
PROJECT PARTNER NYSPE LIC NO.

Joel L. Swanson
PROJECT ASSOCIATE

Miller · Sizing, P. C.
Consulting Engineers
SYRACUSE, N. Y.

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per EJD

S.G. Brisbin 24Feb78
RELEASED FOR CONSTRUCTION DATE

FILE NO. 577

CONTRACT NO. 1 - GENERAL

GENERAL

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E-55 ELECTRICAL DIAGRAMS & DETAILS
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H-17 GALLERY NO. 6 - FLOOR PLAN
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CONTROL BUILDING AND PROCESS STRUCTURE

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P-10 OXYGEN GENERATION & PRIMARY SETTLING TANKS - LOWER PLAN
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ALL CONTRACTORS ARE ISSUED A COMPLETE SET OF CONTRACT DRAWINGS. WHILE EVERY EFFORT HAS BEEN MADE TO CONCENTRATE THE WORK OF TRADES ON SPECIFIC SHEETS, AND LABELED APPROPRIATELY, THERE ARE NECESSARILY INSTANCES WHERE WORK IS SHOWN ON OR CROSS REFERENCED TO OTHER DRAWINGS. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO REVIEW ALL DRAWINGS AND COORDINATE HIS WORK WITH OTHERS.

RECORD DRAWING

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Date 9-8-83 Per FLD

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9.8.83
2	FOR CONSTRUCTION ADD. NO. 2	2-24-78	B.K.W.	B.K.W.	SGB	2-24-78
1	FOR APPROVALS PRV/JAES	3-30-76	P.K.W.	P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Bushi

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT

LIST OF DRAWINGS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1, 2, 3, 4 SHEET G-1

ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.	ASBESTOS CEMENT
A.T.	ASPHALT TILE
AC T.	ACOUSTIC TILE
ADJ.	ADJUSTABLE
AGGR.	AGGREGATE
ALLOW.	ALLOWANCE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ASB.	ASBESTOS
ASPH.	ASPHALT
B.L.	BUILDING LINE
B.M.	BENCH MARK
B.O.F.	BOTTOM OF FOOTING
B.U.	BUILT-UP
B.V.	BUTTERFLY VALVE
BD.	BOARD
BIT.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BRG.	BEARING
BRK.	BRICK
BRZ.	BRONZE
BSMT.	BASEMENT
BOT.	BOTTOM
CRS.	COURSE
C.B.	CATCH BASIN
C.F.	CUBIC FEET
C.F.M.	CUBIC FEET PER MINUTE
C.I.	CAST IRON
C.I.P.	CAST IRON PIPE
C.J.	CONSTRUCTION JOINT.
C.M.P.	CORRUGATED METAL PIPE
C.O.	CLEAN OUT
C.P.	CONCRETE PLANK
C.T.	CERAMIC TILE
C.V.	CHECK VALVE
C.W.	COLD WATER/CIRCULAR WASHER
C.Y.	CUBIC YARD
CAB.	CABINET
CAT.	CATALOG
CEM.	CEMENT
CER.	CERAMIC
CL_2	CHLORINE
℄	CENTERLINE
CLG.	CEILING
CLKG.	CAULKING
CO.	COMPANY
COL.	COLUMN
COMB.	COMBINATION
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CONV.	CONVECTOR
COR.	CORRIDOR
CORP.	CORPORATION
CT. J.	CONTROL JOINT
CTR.	CONTRACT
CU.	COPPER
CU. IN.	CUBIC INCH
'D'	DISCHARGE
D.F.	DRINKING FOUNTAIN
D.J.	DOUBLE JOIST
D.L.	DEAD LOAD
DET.	DETAIL
DIA., ϕ	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DIST.	DISTRIBUTION
DO.	DITTO
DOZ.	DOZEN
DN.	DOWN
DR.	DOOR
DWG.	DRAWING
DWL.	DOWEL
E.	EAST
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.W.	EACH WAY
EA.	EACH
ECC.	ECCENTRIC
EFF.	EFFLUENT
EL.	ELEVATION
ELB.	ELBOW
ELEC.	ELECTRIC
ENAM.	ENAMEL
ENGR.	ENGINEER
ENT.	ENTRANCE
EQUIP.	EQUIPMENT
EX.	EXISTING
EXC.	EXCAVATE
EXH.	EXHAUST
EXP.	EXPANSION
EXT.	EXTERIOR
EXTR.	EXTRUDE
F.C.	FOOT CANDLE/FLUSHING CONN.
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.M.	FORCE MAIN
FAB.	FABRICATE
FIN.	FINISH
FIN. RAD.	FIN RADIATION
FITG.	FITTING
FIX.	FIXTURE
FL.	FLASHING / FLANGE
FLG.	FLOORING
FLR.	FLOOR
FLUOR.	FLUORESCENT
FPRF.	FIREPROOF

FT.	FEET
FTG.	FOOTING
FURR.	FURRING/FURRED
F & C	FRAME AND COVER
F & G	FRAME AND GRATE
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
G.P.M.	GALLONS PER MINUTE
G.V.	GATE VALVE
G.W.F.	GLAZED WALL FINISH
GA.	GAUGE
GALV.	GALVANIZED
GEN.	GENERATOR
GL.	GLASS
GR.	GRADE
GRAN.	GRANITE
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
H. & V.	HEATING AND VENTILATING
H.M.	HOLLOW METAL
H.W.L.	HIGH WATER LEVEL
HDWR.	HARDWARE
HGT.	HEIGHT
HOR.	HORIZONTAL
H.P.	HORSEPOWER
HTR.	HEATER
I.	IRON
I.F.	INSIDE FACE
IN.	INCH
INCIN.	INCINERATOR
INCL.	INCLUDE
INF.	INFLUENT
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
JCT.	JUNCTION
JST.	JOIST
JT.	JOINT
L.L.	LIVE LOAD
L.L.V. (H)	LONG LEG VERT. (HOR.)
L.W.L.	LOW WATER LEVEL
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LG.	LENGTH/LONG
LT.	LIGHT
LV.	LOUVER
M.	MOTOR
M.G.D.	MILLION GALLONS PER DAY
M.H.	MANHOLE
M.J.	MECHANICAL JOINT
M.O.	MASONRY OPENING
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MLDG.	MOULDING
MULT.	MULTIPLE
N	NORTH
N.I.C.	NOT IN CONTRACT
N.P.W.	NOT POTABLE WATER
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O.C.	ON CENTERS
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
O.T.	OPEN TRUSS
OPG.	OPENING
OPP.	OPPOSITE
ORIG.	ORIGINAL
OZ.	OUNCE
P.C.F.	POUNDS PER CUBIC FOOT
P.R.V.	PRESSURE RELIEF VALVE
P.S.F.	POUNDS PER SQUARE FOOT
P.V.	PLUG VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PAR.	PARALLEL
PARA.	PARAGRAPH
PARTN.	PARTITION
PAT.	PATTERN
PAVT.	PAVEMENT
PC.	PIECE
PERF.	PERFORATED
PERP.	PERPENDICULAR
℄	PLATE/PROPERTY LINE
PLAS.	PLASTER
PLAS. LAM.	PLASTIC LAMINATE
PLBG.	PLUMBING
PLWD.	PLYWOOD
PNL.	PANEL
POL.	POLISH
POR.	PORCELAIN
PR.	PAIR
PREFAB.	PREFABRICATED
PT.	POINT/PAINT
Q.T.	QUARRY TILE

R	RISER
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.O.B.	RUN OF BANK
RAD.	RADIUS/RADIATOR
RD.	ROAD
REC.	RECESS/RECORD
RECIR.	RECIRCULATION
RED.	REDUCER
REF.	REFERENCE
REFR.	REFRIGERATE
REG.	REGISTER
REINF.	REINFORCING
REM.	REMOVE
REP.	REPAIR
REQ'D	REQUIRED
REV.	REVISE
RF.	ROOF
RFG.	ROOFING/REFRIGERATOR
R.L.	ROOF LEADER
RM.	ROOM
RUB.	RUBBER
S	SOUTH
'S'	SUCTION
S.F.	SAND FINISH
S.J.	STEEL JOIST
S.S.	STAINLESS STEEL
S.W.D.	SIDE WATER DEPTH
SAD.	SADDLE
SAN.	SANITARY
SCH.	SCHEDULE
SECT.	SECTION
SEL.	SELECTION
SEW.	SEWER
SH.	SHEET
SPA.	SPACES
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STEEL/STREET
STOR.	STORAGE
STD.	STANDARD
STIRR.	STIRRUPS
STRUC.	STRUCTURAL
SUR.	SURFACE
SUSP.	SUSPENDED/SUSPENSION
SYM.	SYMMETRICAL
T	TILE/TREAD
T.D.H.	TOTAL DYNAMIC HEAD
T.O.D.	TOP OF DECK
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
T & B	TOP & BOTTOM
T & G	TONGUE & GROOVE
TEL.	TELEPHONE
TEMP.	TEMPERATURE
TERR.	TERRAZZO
TOL.	TOLERANCE
TRANS.	TRANSFORMER
TYP.	TYPICAL
UR.	URINAL
V	VINYL
V.A.T.	VINYL ASBESTOS TILE
V.T.	VITRIFIED TILE
VERT.	VERTICAL
W/	WITH
W.I.	WROUGHT IRON
W.L.	WATER LEVEL
W.O.	WINDOW OPENING
W/O	WITHOUT
W.S.	WATER SURFACE
W.W.F.	WELDED WIRE FABRIC
WC.	WATERCLOSET
WD.	WOOD
WS.	WEATHERSTRIP
WT.	WEIGHT
W. ST.	WELDED STEEL PIPE

SYMBOLS

PLUG VALVE

GATE VALVE

BUTTERFLY VALVE

CHECK VALVE

KNIFE GATE VALVE

3-WAY PLUG VALVE

GAS COCK

FLANGED JOINT

WELDED JOINT

SCREWED JOINT

MECHANICAL JOINT

PIPE HANGER — TYPE 'A' PIPE SUPPORT

PIPE STANCHION SADDLE — TYPE 'B' PIPE SUPPORT

SPLIT PIPE CLAMP — TYPE 'C' PIPE SUPPORT

WROUGHT STRAP W/S.S. BOLTS & INSUL. — TYPE 'D' PIPE SUPPORT

CONCRETE PIPE SUPPORT IN TRENCH — TYPE 'E' PIPE SUPPORT

CONCRETE BASE FITTING SUPPORT — TYPE 'F' PIPE SUPPORT

CONCRETE PIPE SUPPORT — TYPE 'G' PIPE SUPPORT

WELDED STEEL BRACKET — TYPE 'H' PIPE SUPPORT

WALL SLEEVE

LUMBER (FINISHED GRADE)

LUMBER (STRUCTURAL GRADE)

CONCRETE BLOCK (PLAN)

CONCRETE BLOCK (ELEVATION)

BRICK

EARTH

COMPACTED GRAVEL BACKFILL

INSULATION (LOOSE OR BLANKET)

INSULATION (RIGID)

CONCRETE

2 / S-1 — SECTION OR DETAIL NO. / SHEET NO. WHERE SECTION OR DETAIL IS TAKEN OR SHOWN

PRIMARY PIPE OR PUMP USAGE
PIPE SIZE & MAT
℄ ELEVATION
NO INDICATES CONTENT
2 — SECONDARY PIPE OR PUMP USAGE

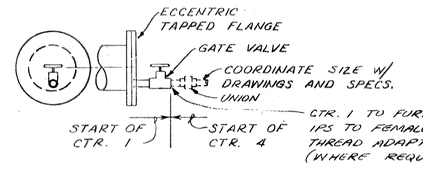
PIPE CHANNEL SUPPORT - TYPE 'I' PIPE SUPPORT

HAND HOLE CLEANOUT

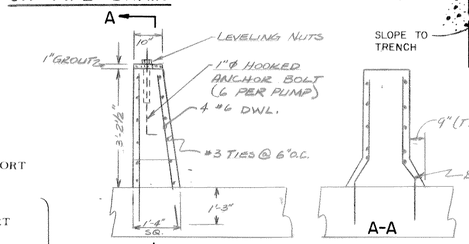
PINCH VALVE

PIPE SUPPORT SYSTEM
TYPE 'J' PIPE SUPPORT

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

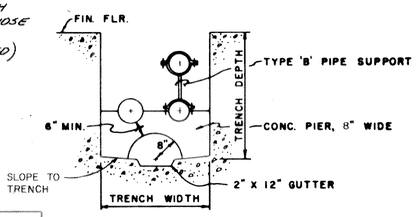


TYPICAL
FLUSHING CONNECTION
OR PIPE DRAIN

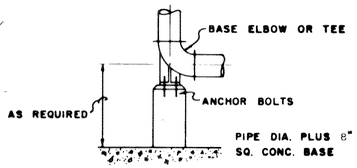


SEE DETAILS THIS SHEET

VERTICAL PUMP BASE DETAIL



TYPE 'E'



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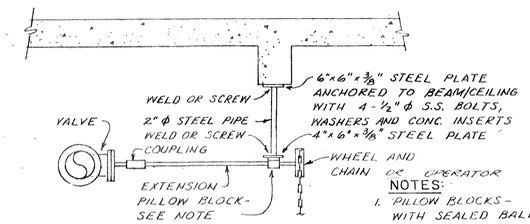
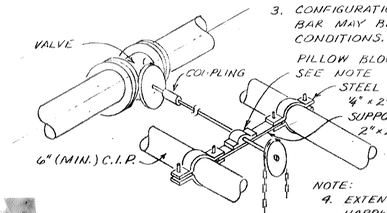


HUNG FROM CEILING OR BEAM

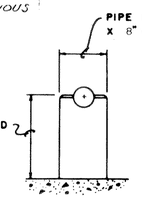
NOTES:
1. PILLOW BLOCKS - C.I., LOW BASE WITH SEALED BALL BEARINGS
2. CONTRACTOR MAY USE-EITHER FABRICATED PIECES OR AVAILABLE MANUFACTURED PARTS TO PRODUCE A SECURE SUPPORT.
3. CONFIGURATION OF CLAMPS AND CONNECTING BAR MAY BE ADAPTED TO SUIT VARIOUS CONDITIONS.



SUPPORTED FROM PIPING

NOTE:
4. EXTENSION AND RELATED HARDWARE MUST BE ADJUSTABLE TO PROVIDE TRUE ALIGNMENT WITH VALVE FOR EASE OF OPERATION.

EXTENDED VALVE OPERATOR
SUPPORT DETAILS
NO SCALE



TYPE 'G'

1. ALL CONTRACTORS ARE ISSUED A COMPLETE SET OF CONTRACT DRAWINGS. WHILE EVERY EFFORT HAS BEEN MADE TO CONCENTRATE THE WORK OF TRADES ON SPECIFIC SHEETS, AND LABELED APPROPRIATELY, THERE ARE NECESSARILY INSTANCES WHERE WORK IS SHOWN ON OR CROSS REFERENCED TO OTHER DRAWINGS. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO REVIEW ALL DRAWINGS AND COORDINATE HIS WORK WITH OTHERS.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING, AND COORDINATING OTHER CONTRACTORS IN THE MAKING OF, ALL PENETRATIONS IN WALLS, FLOORS, CEILINGS, ROOFS, ETC., AS SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item in this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

PIPE SUPPORT DETAILS

NO SCALE

NO.		DATE				
3	RECORD				JLS	9-8-83
	KLS					
2	FOR CONSTRUCTION				SGB	8-24-78
	G.P.V.	2/24/78	P.K.W.	P.K.W.		
	FOR APPROVALS				SGB	3-31-76
	G.P.V.	3-30-76	P.K.W.	P.K.W.		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR Joel L. Hammes
APPROVED S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
SYMBOLS, ABBREVIATIONS AND DETAILS

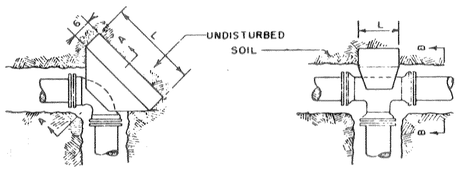
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

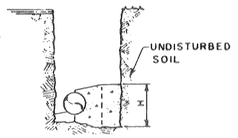
JOB NO. 577 | CONTRACT NO. J | SHEET G-2

HORIZONTAL ANCHOR DIMENSIONS

UP TO 250 P.S.I. WORKING PRESSURE

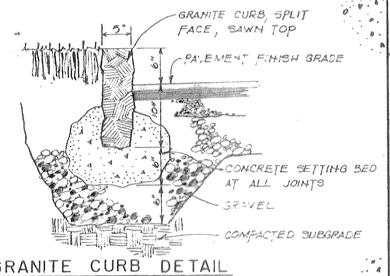
PIPE SIZE IN INCHES	TEE OR TAP SLEEVE		90° BEND		45° BEND		22½° BEND		11¼° BEND		PIPE SIZE IN INCHES
	H	L	H	L	H	L	H	L	H	L	
6"	1.5'	2.5'	2.0'	2.5'	1.5'	2.0'	1.0'	1.5'	1.0'	1.5'	6"
8"	1.5'	3.5'	2.5'	3.5'	2.0'	2.5'	1.5'	1.5'	1.0'	2.0'	8'
10"	2.5'	3.5'	3.0'	4.5'	2.5'	3.0'	1.5'	3.0'	1.0'	2.5'	10"
12"	3.5'	3.5'	3.5'	5.0'	3.0'	3.5'	2.5'	2.5'	1.5'	2.5'	12"



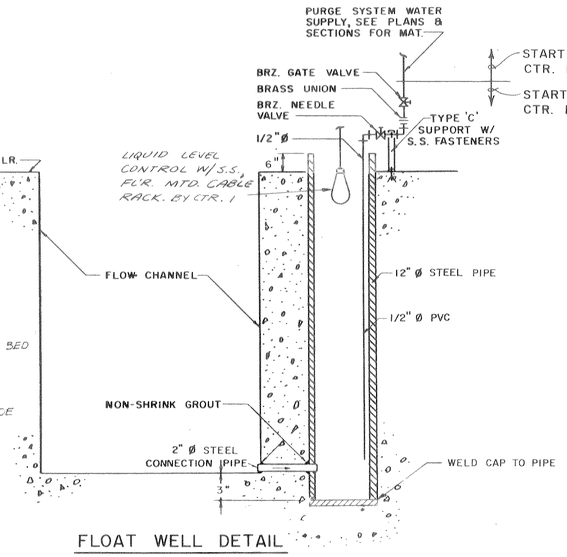


ALL HORIZONTAL BENDS

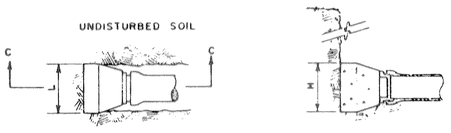
NOTE: SEE CHART ABOVE "HORIZONTAL ANCHOR DIMENSIONS"



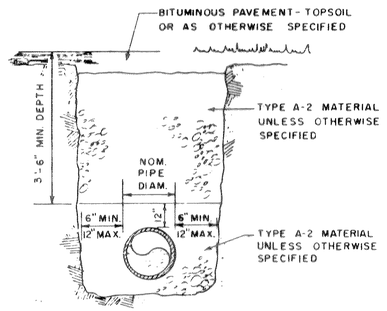
GRANITE CURB DETAIL
NO SCALE



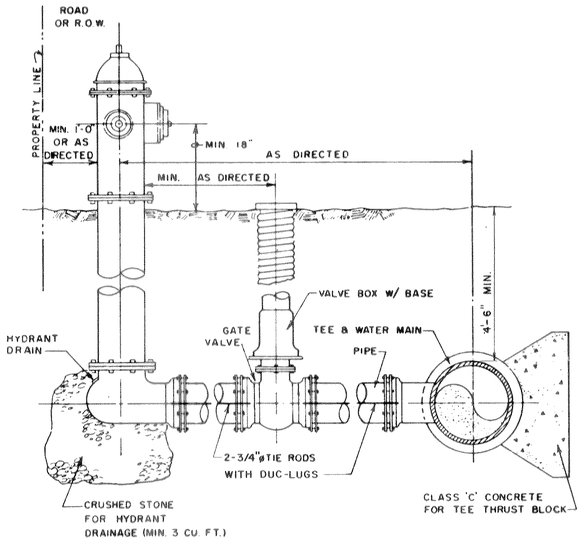
FLOAT WELL DETAIL



PLUG OR CAP



WATER MAIN
TRENCH DETAILS



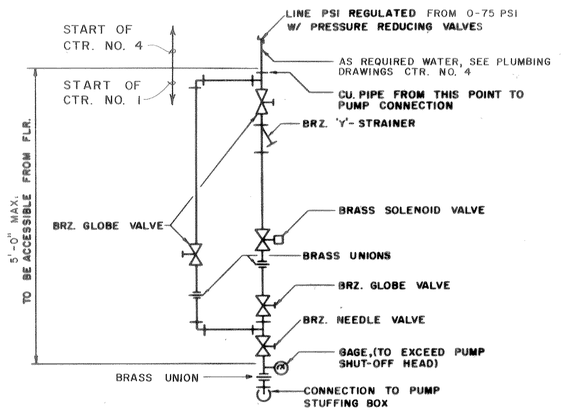
NOTES:

THE TYPE OF HYDRANT CONNECTION INSTALLED SHALL BE ONE OF THE FOLLOWING AS DIRECTED BY THE ENGINEER:

1. HYDRANT DETAIL AS SHOWN ABOVE
2. HYDRANT VALVE ANCHORING OR SWIVEL TEES MAY BE INSTALLED IN LIEU OF REGULAR TEES, THUS ELIMINATING THE BRANCH PIPE AND TIE RODS BETWEEN THE TEE AND THE GATE VALVE.

TYPICAL HYDRANT DETAIL

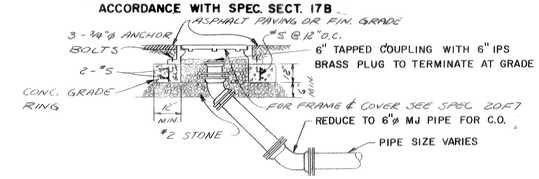
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



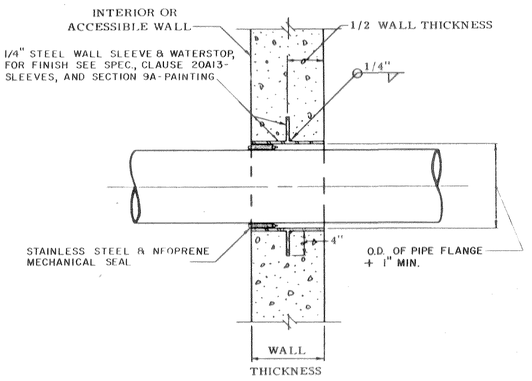
TYPICAL WATERSEAL CONNECTION

NOTES: 1. WATER SUPPLY LINE SAME SIZE AS STUFFING BOX CONNECTION WITH MIN. 3/8" CU.

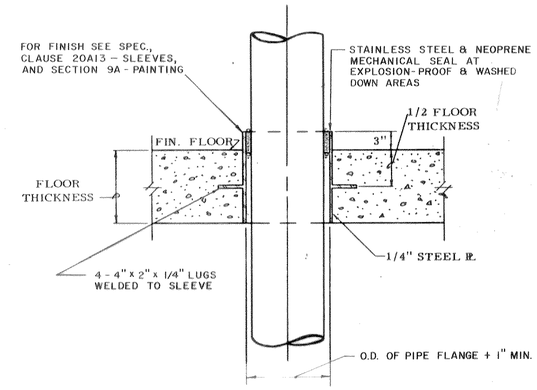
2. PIPE SUPPORTS & HANGERS TO BE IN ACCORDANCE WITH SPEC. SECT. 17B



CLEANOUT DETAIL (C.O.)
NO SCALE



TYPICAL WALL SLEEVE DETAIL



TYPICAL FLOOR & DECK SLEEVE DETAIL

RECORD DRAWING

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Date 9-8-83 Per FLD

NO SCALE

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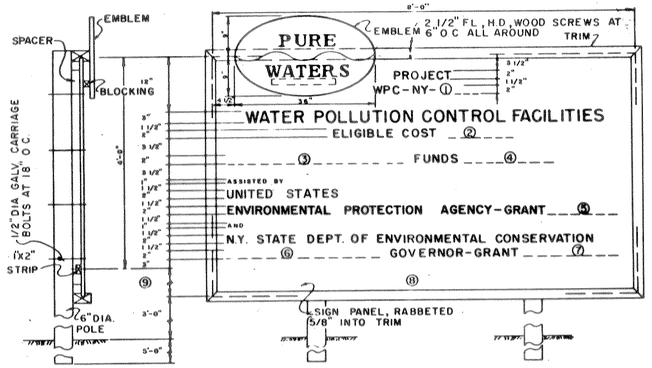
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/8/83
2	FOR CONSTRUCTION G.P.V.	2-24-78	P.K.W.	P.K.W.	S.C.B.	2-24-78
1	FOR APPROVALS G.P.V.	3-30-76	P.K.W.	P.K.W.	S.C.B.	3-31-76

PROJECT SUPERVISOR: Joel L. Swanson — APPROVED: S.C. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
STANDARD & MISCELLANEOUS DETAILS

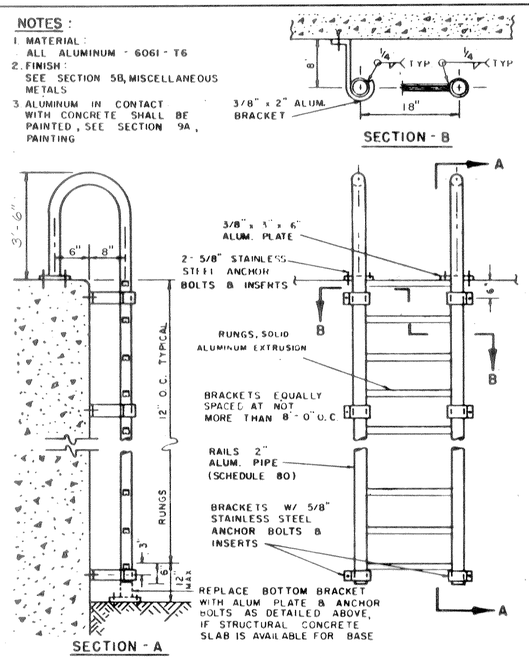
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

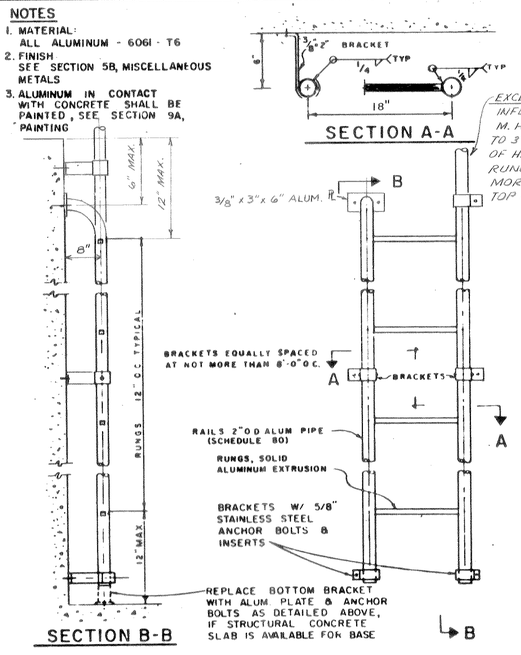
JOB NO. 577 | CONTRACT NO. 1 | SHEET G3



NOTES:
1. SEE SECTION 1, GENERAL SPECIFICATIONS, FOR INFORMATION TO BE FILLED IN CIRCLED NUMBERED SPACES, & FOR PAINTING
2. MATERIAL:
   EMBLEM & SIGN - 3/4" TYPE A-A, EXTERIOR PLYWOOD
   TRIM - 2"x4" WOOD
   POLE - 6" DIA. PRESSURE TREATED
3. ALL ASSEMBLY SHALL BE WITH WOOD SCREWS OR CARRIAGE BOLTS.

PROJECT SIGN DETAIL

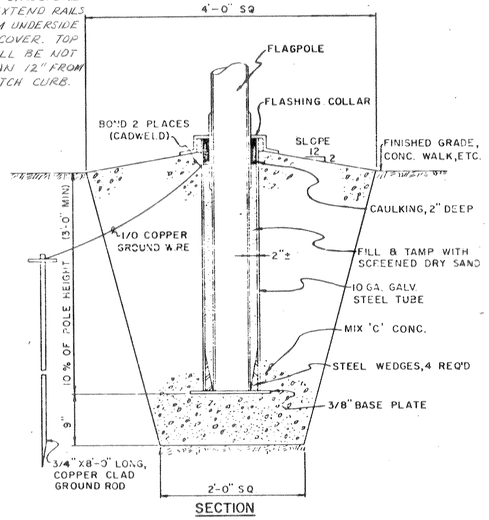




NOTE. ALL ALUMINUM LADDERS ARE TO BE FINISHED - ANODIZED IN COMPLIANCE W/ ALUM. ASSOC. M32-C22-A41

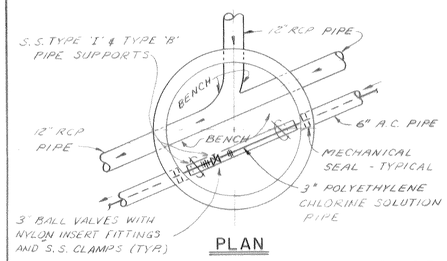
ALUMINUM LADDER DETAILS

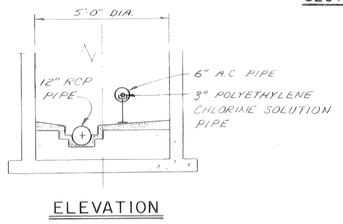
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



NOTE:
1. SEE SECTION 5B, MISCELLANEOUS METALS, FOR POLE HEIGHT, FINISH, ETC.

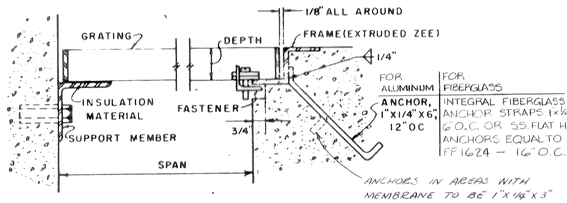
FLAGPOLE BASE DETAIL

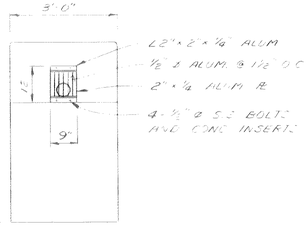




NOTES:
1. M.H. 6 SHOWN. FOR ORIENTATION OF M.H. 5 SEE SHEET G-7
2. FOR CONSTRUCTION OF M.H. 5 & 6 SEE STANDARD PRECAST CONCRETE MANHOLE TYPE 'C' SHEET M-71.

DETAILS - M. H. 5 AND M. H. 6





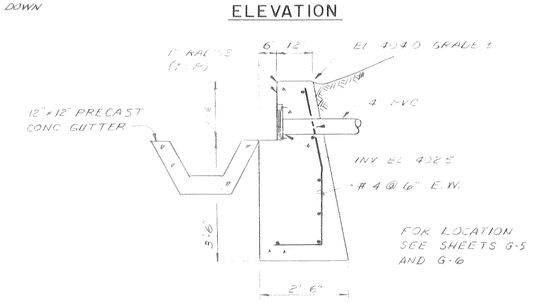
SPAN	FOR ALUMINUM DEPTH*	FOR † FIBERGLASS DEPTH*
0'-0" TO 1'-11"	1"	1 1/4
2'-0" TO 2'-11"	1 1/4"	1 3/4
3'-0" TO 3'-11"	1 1/2"	2
4'-0" TO 4'-11"	1 3/4"	2 1/2
5'-0" TO 5'-11"	2"	3 1/4
6'-0" TO 8'-0"	2 1/4"	4

*UNLESS NOTED OTHERWISE
†DEFLECTION UNDER 100 PSF SHALL NOT EXCEED 1/4" AND MEET TABLE REQUIREMENTS FOR DEPTH

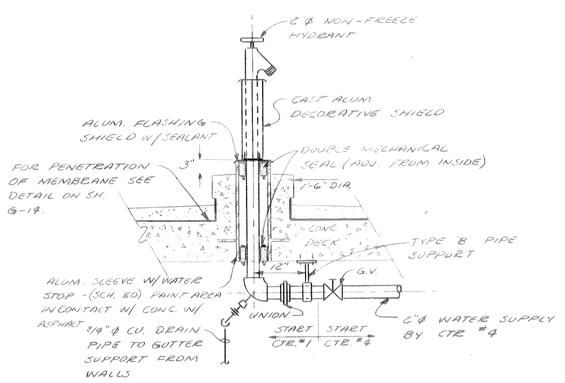
NOTES:
1. MATERIAL
   A. GRATING, FRAME, ANCHOR & FASTENER - 6061-T6 OR 6063-T6 ALUMINUM.
   B. INSULATION - (REQ'D ONLY WHEN SUPPORT MEMBER IS STEEL) 1/16" THK PLAS. LAM.
2. ALUMINUM FRAME IN CONTACT WITH CONCRETE SHALL BE PAINTED - SEE SECTION 9A PAINTING.
3. SEE SECTION 5B MISC. METALS FOR GRATING MFR. & FINISH.
4. ALL JOINTS IN FRAME SHALL BE MITRED & CONTINUOUS WELD BOTH SIDES. GRIND EXPOSED WELD SMOOTH.
5. EDGE BAND ALL OPENINGS & PERIMETER OF EACH GRATING SECTION

NO SCALE

ALUMINUM GRATING & FRAME DETAIL

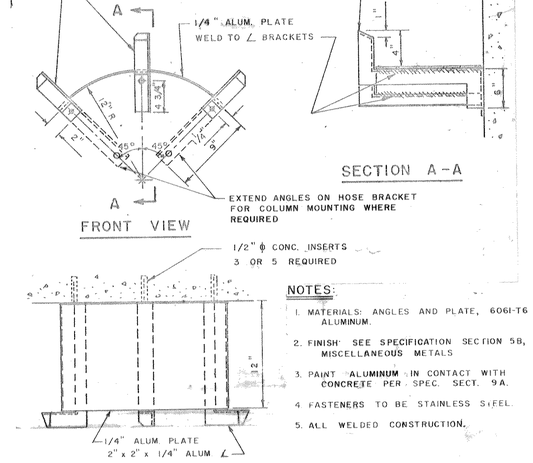


HEADWALL DETAIL



FLUSHING HYDRANT

LOCATED ON EXTERIOR OF PROCESS STRUCTURE



NOTES:
1. MATERIALS: ANGLES AND PLATE, 6061-T6 ALUMINUM.
2. FINISH: SEE SPECIFICATION SECTION 5B, MISCELLANEOUS METALS
3. PAINT ALUMINUM IN CONTACT WITH CONCRETE PER SPEC. SECT. 9A.
4. FASTENERS TO BE STAINLESS STEEL.
5. ALL WELDED CONSTRUCTION.

WATER OR AIR HOSE BRACKET

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

NO SCALE

In accordance with the New York State education law no person shall be permitted to practice engineering or land surveying as defined therein, unless duly licensed and registered. Accordingly, no person shall alter this drawing unless acting under the supervision of a licensed professional engineer, who shall affix to the drawing his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9.8.83
2	FOR CONSTRUCTION	G.P.V.	2-24-78	P.K.W.	P.K.W.	S.G.B 2-24-78
1	FOR APPROVALS	G.P.V.	5-30-76	P.K.W.	P.K.W.	S.G.B 5-31-76

PROJECT SUPERVISOR — APPROVED — S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

STANDARD & MISCELLANEOUS DETAILS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 577 | CONTRACT NO. 1 | SHEET G4

TO ROUTE 370

BARBARA LANE

EXISTING HYDRANT

EXISTING 8" WATERMAIN

EXISTING 8" G.V.

EXISTING 1 1/2" BLOW-OFF

NEW 8" WATERMAIN

PROJECT SIGN

8" G.V.

8" PLUG

HYDRANT

METER VAULT - FOR DETAILS SEE SH. G-12.

24' DOUBLE GATE

4" PVC. DRAIN

PROPERTY LINE AND CONTRACT LIMITS

CURVE NO. 1 - P.I.
Δ = 27°18'34"
T = 60.0'
R = 244.94'

PROPERTY LINE & CONTRACT LIMITS

STONE FILL 1100 SQ.FT.

CROWN VETCH 5000 SQ.FT.

CROWN VETCH 6000 SQ.FT.

CONTROL POINT NO. 3

45° BEND

17-(F)

CHAIN LINK FENCE AND MOWING STRIP

SUBDRAINAGE SYSTEM SEE G-6 & 7

14' DOUBLE GATE

FOR CONTINUATION OF 8" WATERMAIN SEE SH. G-7

ACCESS ROAD

℄ OF INTERSECTION

CONTROL POINT NO. 2

CROWN VETCH 24000 SQ.FT.

TYPE 'B' PAVEMENT

SLUDGE DRYING BEDS

SLUDGE DRAIN M.H.

CHAIN LINK FENCE AND MOWING STRIP

CURVE NO. 2 - P.I.
Δ = 15°29'01"
T = 60.0'
R = 447.82'

SEEDLING PINES PLANTATION STYLE AND RYE GRASS SEEDING WITHIN DASH LINED AREA

INCREASE MOWING STRIP TO 3'-0" @ YARD HYD. LOCATIONS AROUND PROCESS STRUCTURES! (TYP.)

PROCESS STRUCTURE

NOTE: SEE SH. G-6 FOR LANDSCAPING IMMEDIATELY ADJACENT TO PROCESS STRUCTURE.

EXISTING CLUMP OF TREES TO BE SAVED.

CONTROL BUILDING

SEE SH. M-4 & M-7 FOR LIQUID CONTROL BLDG.

TYPE 'A' PAVEMENT

MOWING STRIP (TYPICAL)

CONTROL POINT NO. 1

CONTROL POINT NO. 4

CONTROL POINT NO. 5

SENECA RIVER

MARINE SANITARY STATION

CONTOURED DIVERSION STRUCTURE

14' DBL. GATE

4' MAN GATE

STORM OUTLET

PROPERTY LINE & CONTRACT LIMITS

FLOOD RIGHTS STATE OF NEW YORK

STONE FILLING SHALL BE MEDIUM TYPE CONFORMING TO NYS DOT STANDARD SPECIFICATIONS, SECTIONS 620-1.01, 620-2.02 AND 620-3.02. MINIMUM DEPTH OF STONE FILLING SHALL BE 18". GENERALLY CONTOUR LINE 415 TO 20 FT. FROM ℄ OF ROAD.

ANY ADDITIONAL STEEP AREAS REQUIRING STABILIZATION, USE ½" SQUARE NETTING SECURED TO GROUND OVER SEEDED AREA.

NOTE: ALL EXISTING TREES DESIRED TO BE SAVED SHALL BE MARKED WITH BRIGHT RED (OR PINK) MARKING TAPE, TWO TO FOUR LOOPS AROUND THE TRUNK, 5 FT. ABOVE GROUND OR IN ANOTHER CONSPICUOUS MANNER. PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL FENCE ALL TREES OR CLUMPS OF TREES DESIGNATED TO BE SAVED. SUCH FENCE SHALL BE 1 FT. OUTSIDE OF OUTER EXTREMITY OF BRANCHES AND SHALL BE 4 FT. HIGH USING 2 x 4 POSTS (MAX. 8'-0" O.C.) SET IN GROUND. SHOULD THE WORK BE TOO CLOSE TO THE TREES FOR FENCING, THE CONTRACTOR SHALL BOX THE TREES AT THE TRUNK IN A MANNER APPROVED BY THE ENGINEER. ANY TREE MARKED TO BE SAVED, THAT IS KILLED (OR DYING) BY THE WORK OF THIS CONTRACT, SHALL BE REPLACED WITH A TREE OF LIKE SIZE AND SPECIES AT NO ADDITIONAL COST TO THE OWNER.

NOTES

1. TYPE "A" PAVEMENT SEE TYPICAL ROAD SECTION, SHEET G-4
2. TYPE "B" PAVEMENT SEE SECTION SHEET M-70
3. FINAL GRADES AND CONTOURS SEE SHEETS G-6 AND G-7

SCALE 1" = 80'

80 0 80 160

RECORD DRAWING

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Date 9-8-83 Per FLD

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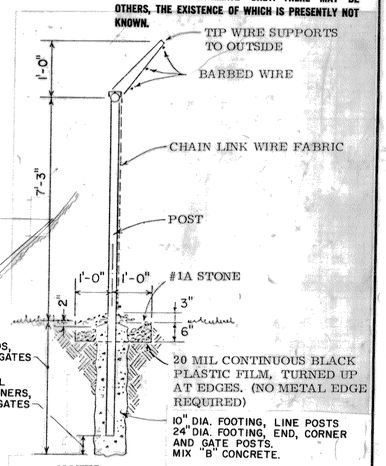
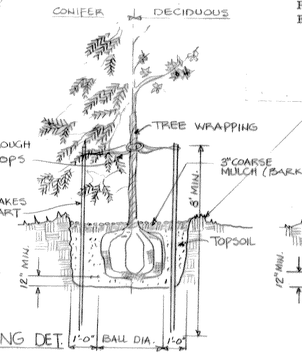
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



NOTES:
1. SEE SPECIFICATION SECTION 2K FOR FURTHER INFORMATION.
2. CHAIN LINK FENCE OCCURS AROUND ENTIRE PROJECT. MOWING STRIP IS CONTINUOUS EXCEPT FOR PAVED ROADS OR DRIVEWAYS.

CHAIN LINK FENCE WITH MOWING STRIP
NO SCALE



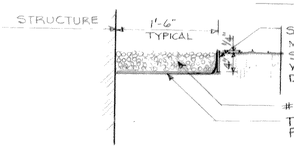
TREE PLANTING DET.

SHRUB PLANTING DET.

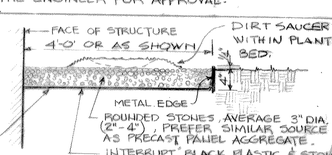
PLANT LIST SEE DWGS. G-5, G-6, A-6 & A-7

QUANTITY	KEY	COMMON NAME	SCIENTIFIC NAME	HEIGHT	CALIPER	SPREAD	ROOTS
60	A	JAPANESE YEW	TAXUS CUSPIDATA	16"-18"	1½"-2½"		B & B
39	B	JAPANESE YEW	TAXUS CUSPIDATA CAPITATA	28"-36"	1½"-2½"		B & B
32	C	SARGENT JUNIPER	JUNIPERUS CHINENSIS SARGENTI	10"-14"	1"-2"		B & B
32	D	HONEY LOCUST	GLEDITSIA TRIACANTHOS INERMIS	10'-12'	2"-3"	8'-10'	B & B
18	E	COLORADO BLUE SPRUCE	PICEA PUNGENS	6'-8'	3"-4"		B & B
17	F	RED PINE	PINUS RESINOSA	24"-36"	¾"-1½"		B & B
2,000 SQ FT AS SHOWN		PACHYSANDRA	PACHYSANDRA TERMINALIS	4 PLANTS PER SQ. FT.			
35,000 SQ FT AS SHOWN		CROWN VETCH	CORONILLIA VARIA	1 PLANT PER 4 SQ. FT.			

NOTE # 1. SUBMIT 2 SAMPLES OF EACH TYPE STONE TO THE ENGINEER FOR APPROVAL. USE A 12" x 12" x 4" DEEP WOOD BOX FOR EACH.



TYPICAL MOWING STRIP DETAIL
NO SCALE



TYPICAL PLANTING BED DET
NO SCALE

NOTE # 2. ALL STRUCTURES SHALL HAVE MOWING STRIP AROUND ENTIRE PERIMETER EXCEPT WHERE WALKS, TUNNELS, PLANTING BEDS, PAVEMENT OR CONCRETE PADS INTERSECT THE STRUCTURE.

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9.8.83
2	FOR CONSTRUCTION	G.P.V.	2.24.78	P.K.W.	P.K.W.	S.G.B.	2.24.78
1	FOR APPROVALS	G.P.V.	2.20.76	P.K.W.	P.K.W.	S.G.B.	3.31.76

PROJECT SUPERVISOR: Jack L. Stearns
APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
SITE PLAN
DETAILS & LANDSCAPING

STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET G-5

SYMBOLS

- SP-1 — SETTLEMENT PLATFORM & NUMBER
- SS-1 — SETTLEMENT STAKE & NUMBER
- PRELOAD LIMITS
- 392 — EXISTING CONTOURS
- 392 — FINISH CONTOURS
- 374.5 — SPOT ELEVATIONS
- ASPHALT CONCRETE PAVEMENT (SLUDGE DRYING BEDS NOT SHOWN PAVT)
- CONCRETE PAVEMENT
- PLANT A / PLANT B / PLANT C — SEE PLANTING SCHEDULE - SH. G-5
- 6' × 6' GROUTED RIP-RAP (FINISH SMOOTH & @ GRADE - TYP 4 PLACES)
- SUBDRAINAGE SYSTEM
- UNDERDRAIN
- CONC. GUTTER

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

MATCH LINE 'A'

BARBARA LANE

PROJECT SIGN DETAILS SH. A-2

ACCESS ROAD

45' R.

METER PIT

DRAIN HEADWALL SEE SH. G-4 FOR DETAILS AND SH. G-5 FOR PIPING

NOTE: REFER TO SH. G-5 FOR PLANTING DETAILS.

TOP OF STEEP SLOPE AND UPPER LIMIT OF CROWN VETCH

SUBDRAINAGE SYSTEM 450'± LG. SEE TYP. TRENCH DETAIL SH. G-5

PUMPED ZONE AZE MIN. @ MAX. DEPTH

ACCESS ROAD

GRIT BLDG.

DIGESTER #1

DIGESTER #2

DIGESTER #3

AERATED GRIT CHAMBERS

PRIMARY SETTLING TANK #1

PRIMARY SETTLING TANK #2

FIRST STAGE AERATION

8"Φ PIPE SLEEVES

CONC. WALL F.G. AT SL. EDGE = 376.21 (TYP)

BOT = 370.50

GALLERY #2

GALLERY #3

GALLERY #4

GALLERY #7

PROCESS STRUCTURE

TYPICAL MOWING STRIP

FIRST STAGE SETTLING TANK #1

FIRST STAGE SETTLING TANK #2

SECOND STAGE SETTLING TANK #1

SECOND STAGE SETTLING TANK #2

SECOND STAGE SETTLING TANK #3

OXYGEN GENERATION ROOM

SECOND STAGE AERATION

GUIDE RAIL

VAPORIZER

OXYGEN STORAGE TANK C.E. #11 RIM 373.0

MAINTAIN EX. GRADE AROUND TREES TO BE SAVED

TUNNEL

MACHINE BLDG.

CONTROL BUILDING

6' CONC. WALK

4'W × 8'L CONC. PAD

10'-6" × 6' CONC. PAD C.B. #15 RIM 372.5

SLOPE PAVEMENT AWAY FROM DOORS (TYPICAL)

4' WIDE BY 6' LONG CONC. PAD FOR 2 100 LB. LP TANKS

GUARD POST (TYP.) SEE DETAIL SHEET A-27

SEE SK-2 SHEET G-6

REFER TO SH. A-6 AND A-7 FOR CONTROL BLDG. PLANTING

8'×8' CONC. WALK

FLAGPOLE

GRANITE CURB

CONCRETE PAD BY CTR. NO. 2 SEE DETAILS SHEET E-3.

T.O.C. 373.58

3' MIN. GROUTED RIP-RAP (TYP.)

4' MIN.

DUMPED STONE 2' DEEP SIZE MIN 4" MAX 8"

INFLUENT STRUCTURE MH I

CONTROLLED DIVERSION STRUCTURE

MARINE SANITARY STATION (ELEV. NW COR. OF ALUM. = 373.68)

LIMITS OF PRELOAD TO ELEV. 373.0

NW COR. OF CONC. 373.98

LINE OF SHEET PILING

RIP RAP DIKE (NEW)

EXISTING

SENECA RIVER

SLUDGE DRYING BEDS

SLUDGE DRAIN M.H.

LIMITS OF PRELOAD TO ELEV. 375.0

374.88 F.G. SHOULDER (TYP)

2.0% SLOPE

MANHOLE (TYP)

SURCHARGE TO ELEV. 375.0

TYP. 7" PAVT.

TYP. 8" P.V.T.

TOP OF CURB 373.58 (TYP.)

FLOOD RIGHTS © STATE OF NEW YORK

CUT CURB AT 45° AT JOINT TO ACCEPT FUEL LINES

FUEL LINES

SK-2

MATCH LINE 'B' - SEE SHEET G-7

A-5 △ A-6 △ A-7 △

RECORD DRAWING

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Date 9-8-83 Per E.L.D.

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

1" = 40' (40 0 40 80)

LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959

Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				W.S.	9-8-83
2	FOR CONSTRUCTION				S.G.B.	2-24-78
	S.P./A.E.S.	2-24-78	P.K.W.	P.K.W.		
1	FOR APPROVALS				S.G.B.	3-31-76
	C.P.Y./A.E.	3-30-76	P.K.W.	P.K.W.		

PROJECT SUPERVISOR: J. L. Stevens — APPROVED: S.G. Brisbin

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

SITE PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET G-6

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CROSS SECTION
SUBDRAINAGE TRENCH
NO SCALE

SK-1

INSERT 12"CMP-10' MIN. INTO SUBDRAINAGE TRENCH & WRAP PIPE STUB W/ FABRIC SEE SH. G-6 FOR TRENCH LIMITS

MATCH LINE 'B' - SEE SH. G-6

RECORD DRAWING
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Date 9-8-83 Per FLD

YARD PIPING LEGEND

- INFLUENT SEWER
- PLANT OUTFALL
- FORCE MAIN
- SLUDGE DRYING BEDS FEED
- PROCESS DRAINS
- WATER P OR NP (AS LABELED)
- STORM DRAINAGE
- OVERFLOW

CLEAN OUT TYP SEE SH G 3 FOR DETAIL.
6"AC CONDUIT WITH 3" CHLORINE SOLUTION PIPE.

NOTES:

1. All piping entering or exiting a structure to have a pipe joint within 2'-0" (maximum) of structure wall.
2. All piping shown as single line; contractor to supply all bends required to maintain smooth flow lines, change in elevation and to meet all transitions.
3. Ctrs. 1 to coordinate storm or sanitary piping with Ctr. 4 (see Sh. P-11).

1" = 40'

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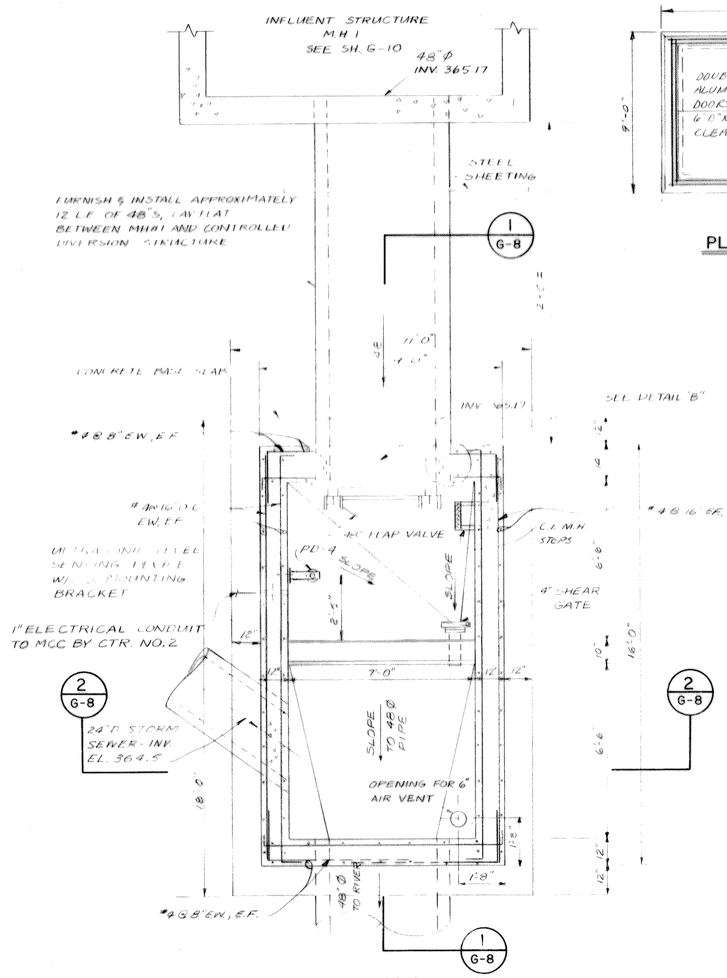
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				VS	9.83
2	FOR CONSTRUCTION G.P.V./A.S.	2-24-78	P.R.W.	P.R.W.	SGB	2-27-78
1	FOR APPROVALS G.P.V./A.S.	3-30-76	P.R.W.	P.R.W.	SGB	3-31-76

PROJECT SUPERVISOR Jack L. Swanson
APPROVED S.G. Bruber

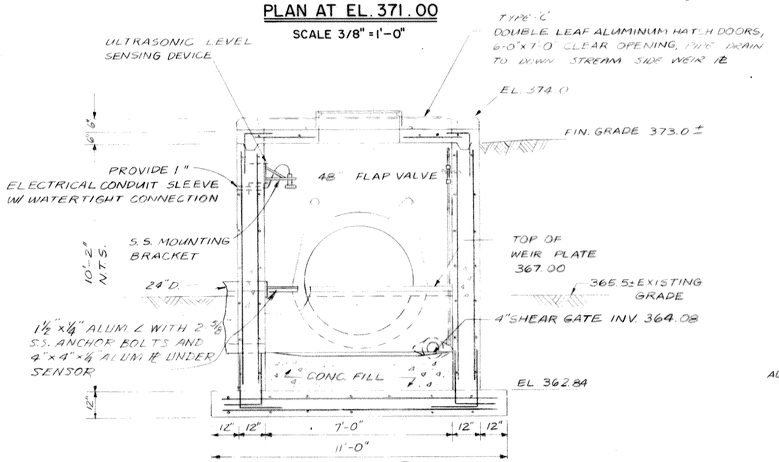
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
YARD PIPING
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT
JOB NO. 577 CONTRACT NO. 1 SHEET G7



CONTROLLED DIVERSION STRUCTURE

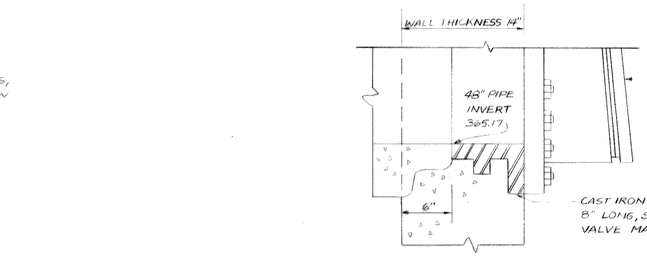
PLAN AT EL. 371.00

SCALE 3/8" = 1'-0"



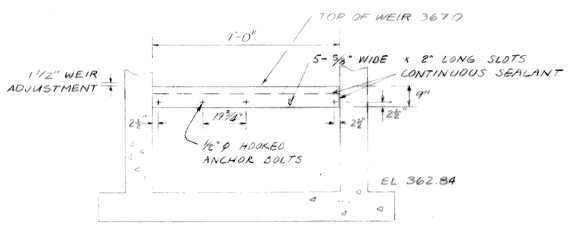
SECTION 2/G-8

SCALE 3/8" = 1'-0"



DETAIL 'B'

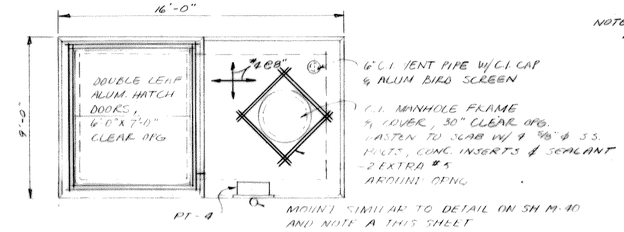
SCALE 1 1/2" = 1'-0"



1. MATERIAL:
   A. WEIR - ¼" THK, 304 S.S.
   B. BOLTS, NUTS & WASHERS - SILICON BRONZE
2. SEALANT: SEE CLAUSE 3CA OF SPEC.

CONTROLLED DIVERSION WEIR DETAIL

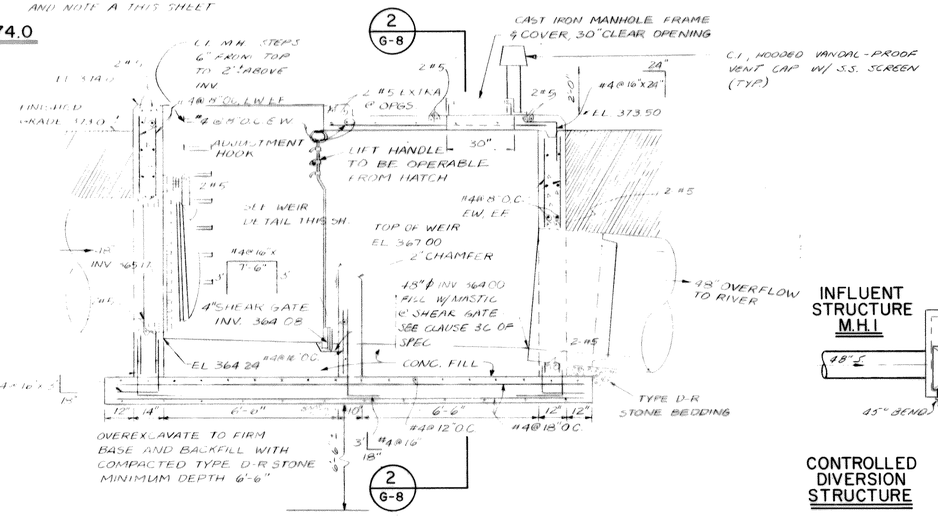
SCALE 3/8" = 1'-0"



PLAN AT EL. 374.0

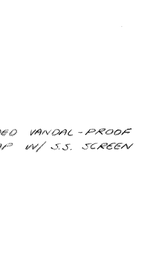
SCALE 1/4" = 1'-0"

NOTES:
A - BACKING ℄ 36" AL., ROUND CORNERS MOUNT TO 3"ø AL. POST W/ S.S. FASTENERS



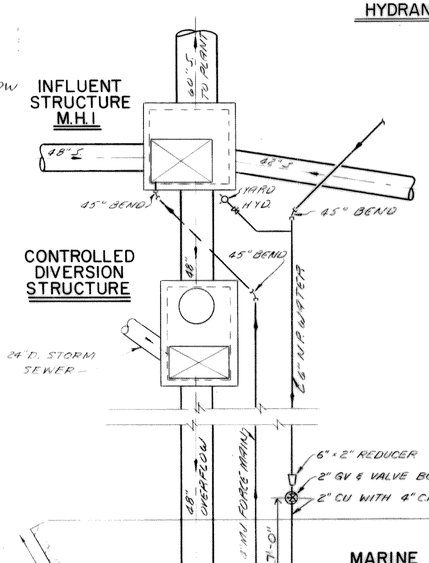
SECTION 1/G-8

SCALE 3/8" = 1'-0"

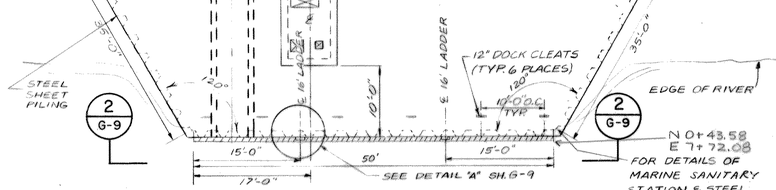


HYDRANT MOUNTING DETAIL

(2 REQ.)
NO SCALE



MARINE SANITARY STATION



SITE PLAN

SCALE 1" = 10'

RECORD DRAWING

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Date 9-8-83 **Per** FLD

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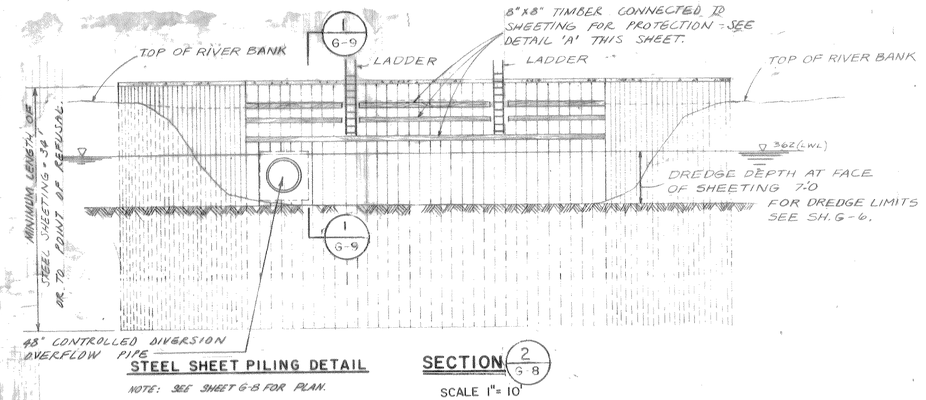
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				LS	9.8.83
2	FOR CONSTRUCTION G.J.B.	2.24.78	P.K.W.	P.K.W.	SGB	2-24-78
1	FOR APPROVALS G.J.B.	3-30-76	P.K.W.	P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR: Joel E. Swanson — APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROLLED DIVERSION STRUCTURE

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET G8

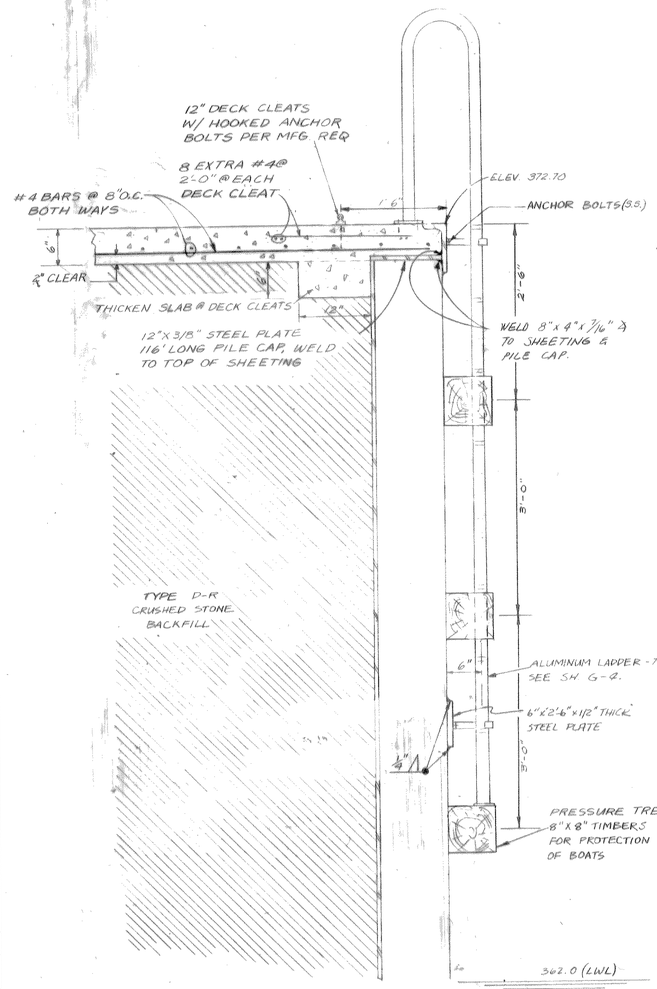


STEEL SHEET PILING DETAIL

NOTE: SEE SHEET G-8 FOR PLAN.

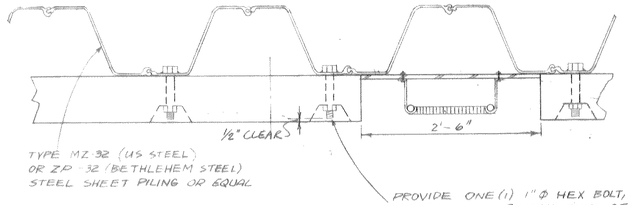
SECTION 2/G-8

SCALE 1" = 10'



SECTION 1/G-9

SCALE 1" = 1'-0"

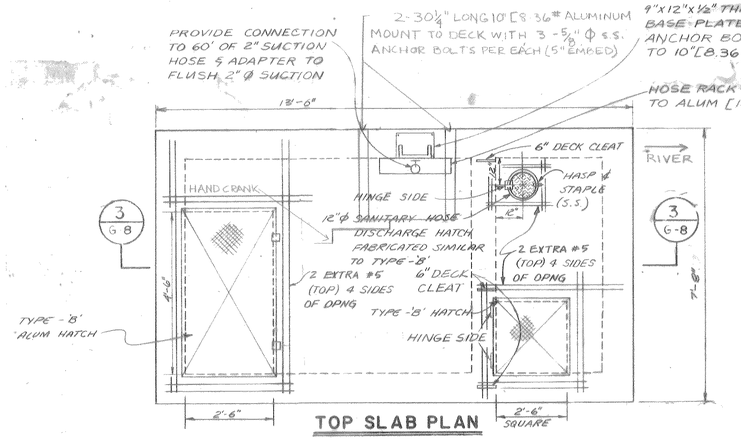


DETAIL "A"

PARTIAL PLAN

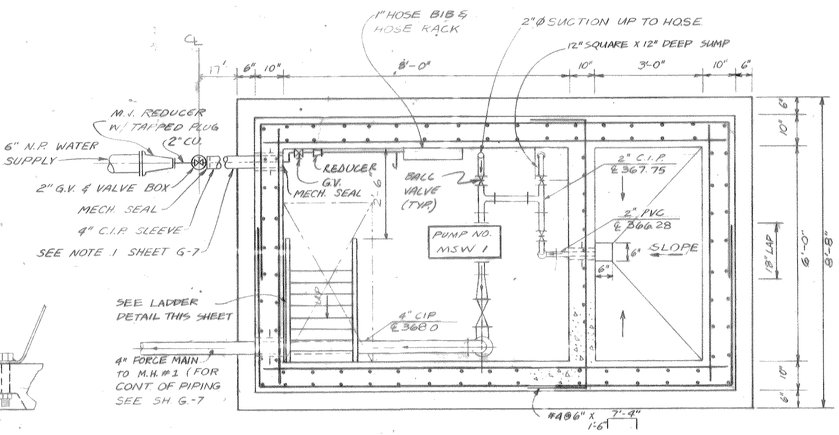
AT STEEL SHEET PILING

NO SCALE

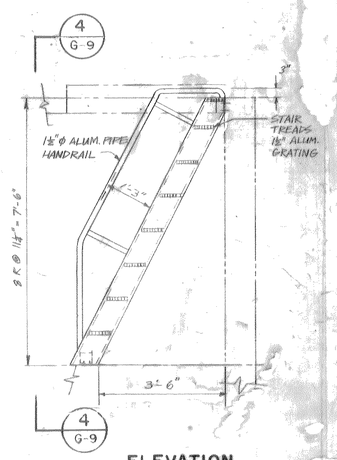


TOP SLAB PLAN

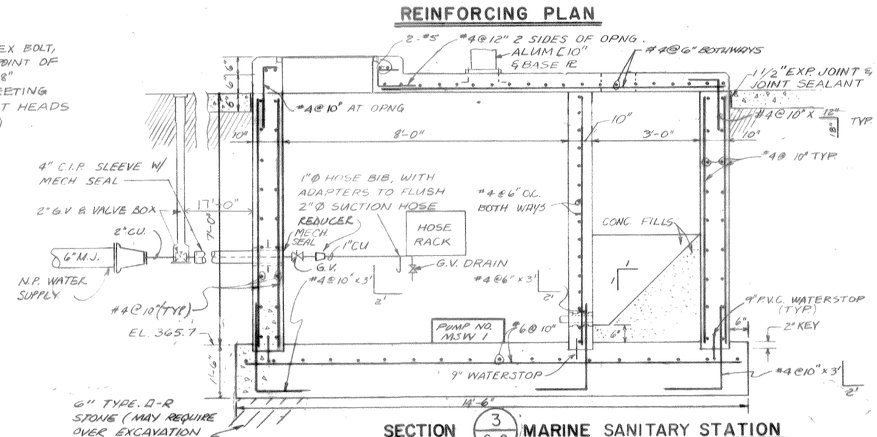
NOTE: BOLT FRAME OF HOSE REEL TO ALUM [10" PER MANUFACTURERS RECOMMENDATIONS USING S.S. HARDWARE.



REINFORCING PLAN

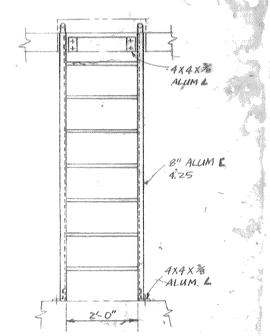


ELEVATION



SECTION 3/G-9 **MARINE SANITARY STATION**

SCALE 1/2" = 1'-0"



SECTION 4/G-9

SCALE 1/2" = 1'-0"

1" = 10' 10 0 10 20

1" = 1'0" 1 6 0 1 2

½" = 1'0" 1 0 1 2 3 4 5

RECORD DRAWING

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Date 9-8-83 Per FLD

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NOTE:
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	RECORD AS BUILT				HLS	9.8.83
2	FOR CONSTRUCTION G.J.B.	2.24.78	P.K.W.	P.K.W.	SGB	2.24.78
1	FOR APPROVALS G.J.B.	3-30-76	P.K.W.	P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Stevens APPROVED S. G. Brabin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

MARINE SANITARY STATION

Stearns & Wheler

CIVIL AND SANITARY ENGINEERS

CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET G9

NOTE:
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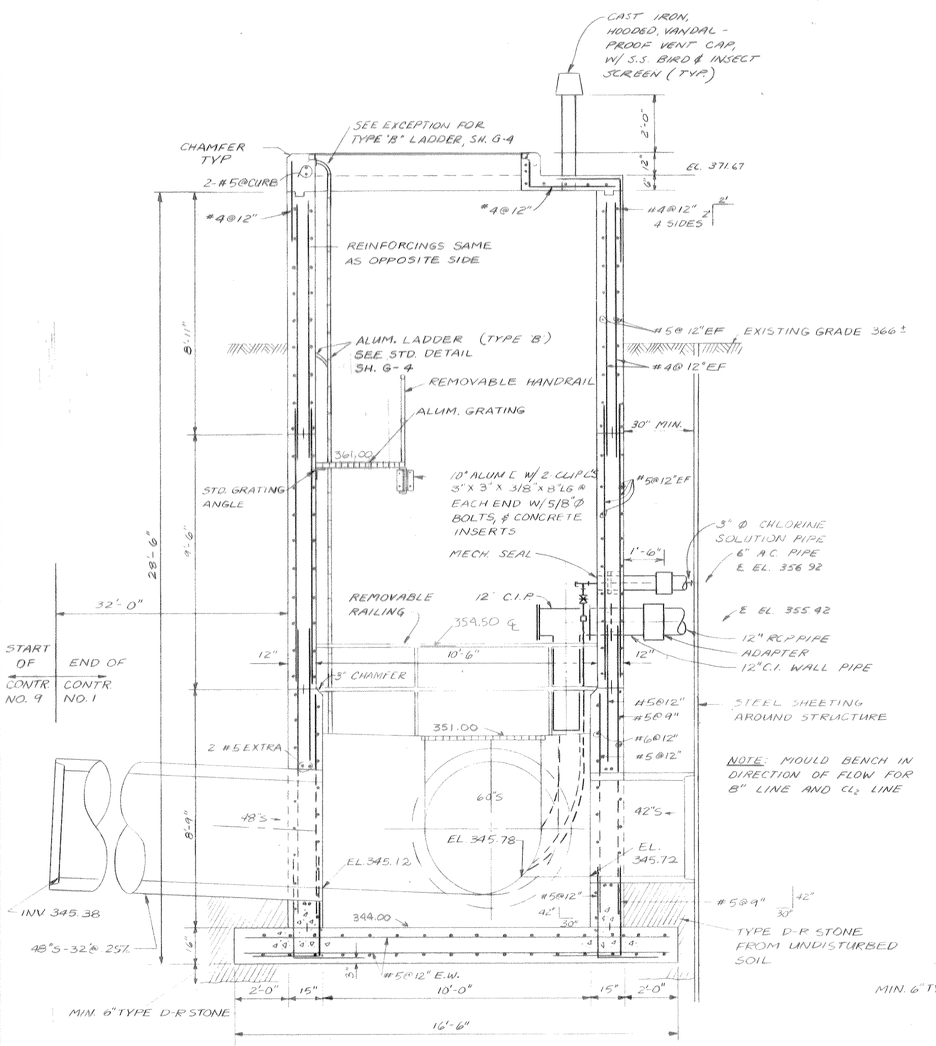
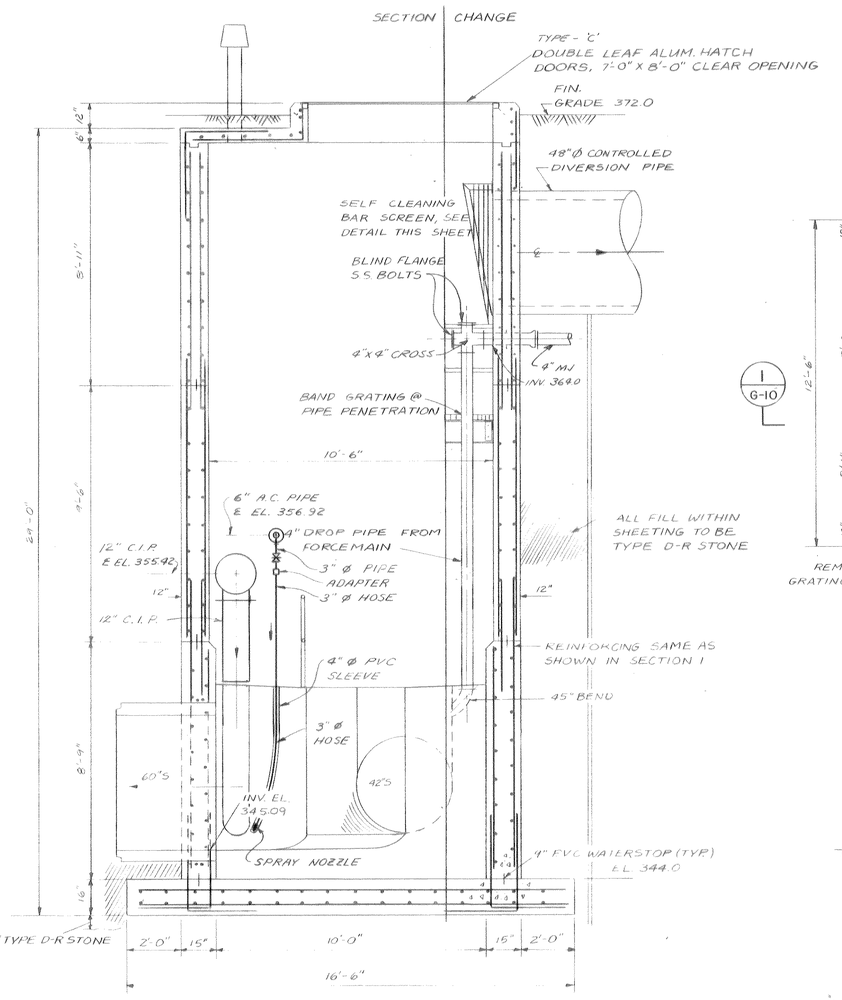
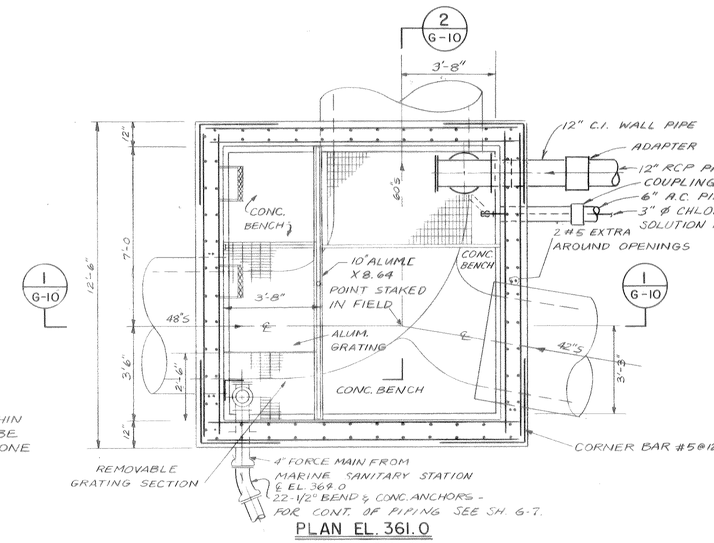


SECTION (1 / G-10)
SCALE 3/8"= 1'-0"

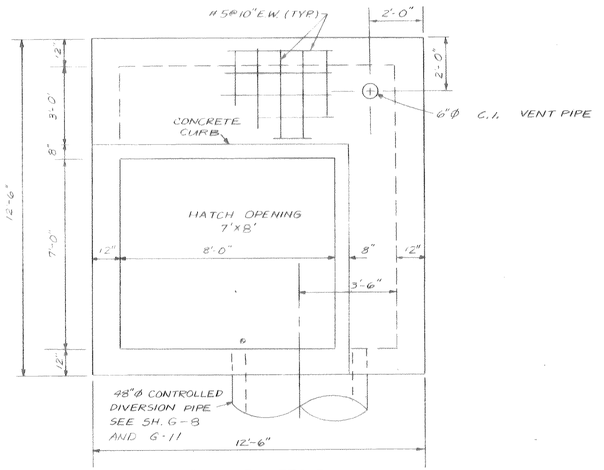


SECTION (2 / G-10)
SCALE 3/8"= 1'-0"

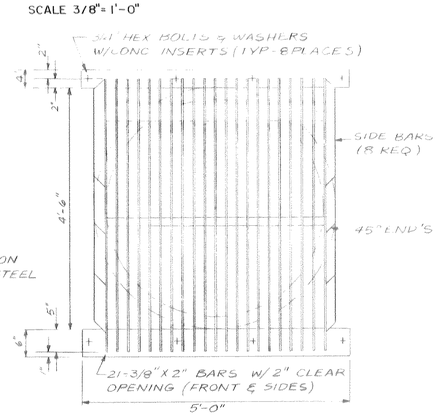


PLAN EL. 361.0
SCALE 3/8"= 1'-0"

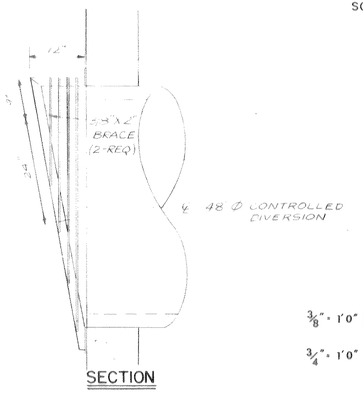
2 G-10



PLAN EL. 372.5
SCALE 3/8"= 1'-0"



ELEVATION
SELF-CLEANING BAR SCREEN DETAIL
SCALE 3/4"= 1'-0"



SECTION

NOTES:
1. ALL WELDED CONSTRUCTION
2. ALL MATERIAL 3/8" THICK STEEL
3. PAINT PER SPEC. SECT. 9A

RECORD DRAWING
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Date 9-8-83 Per F&D

3/8" = 1'0" 1 0 1 2 3 4 5 6 7
3/4" = 1'0" 1 0 1 2 3

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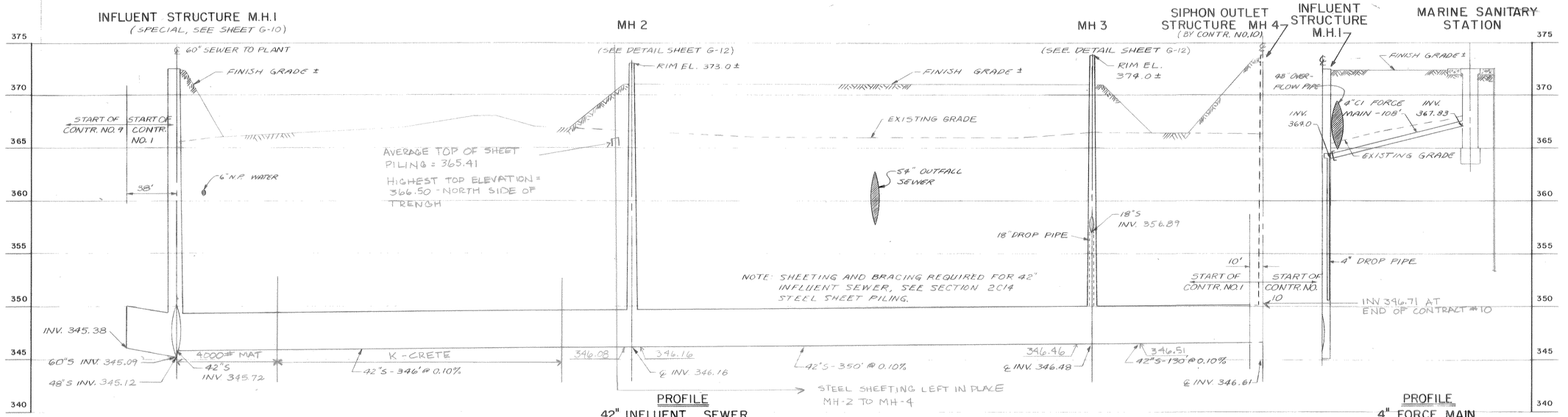
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RELOAD AEF					
2	FOR CONSTRUCTION G.J.B.	2-29-78	P.K.W.	P.K.W.	SGB	2-29-78
1	FOR APPROVALS G.J.B.	3-30-76	P.K.W.	P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel Zakarauskas
APPROVED SG Bushnell

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
INFLUENT STRUCTURE M.H. 1
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT
JOB NO. 577 CONTRACT NO. 1 SHEET G-10



PROFILE
42" INFLUENT SEWER
VERT. SCALE: 1" = 5'-0"
HORIZ. SCALE: 1" = 40'-0"
(FOR SITE PLAN SEE SH. G-7)

PROFILE
4" FORCE MAIN
(MARINE SANITARY STATION TO MH 1)
VERT. SCALE: 1" = 5'-0"
HORIZ. SCALE: 1" = 40'-0"
(FOR SITE PLAN SEE SH G-8)

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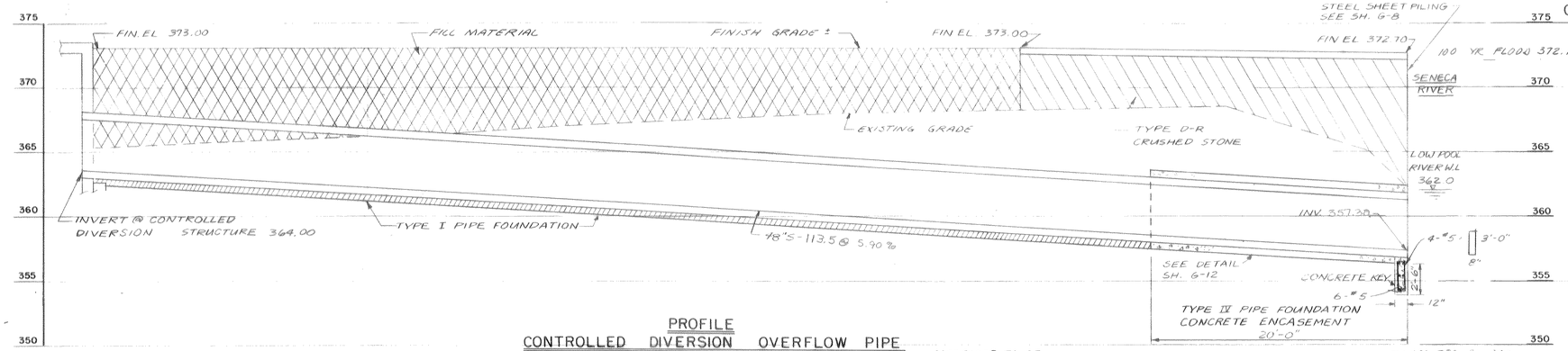
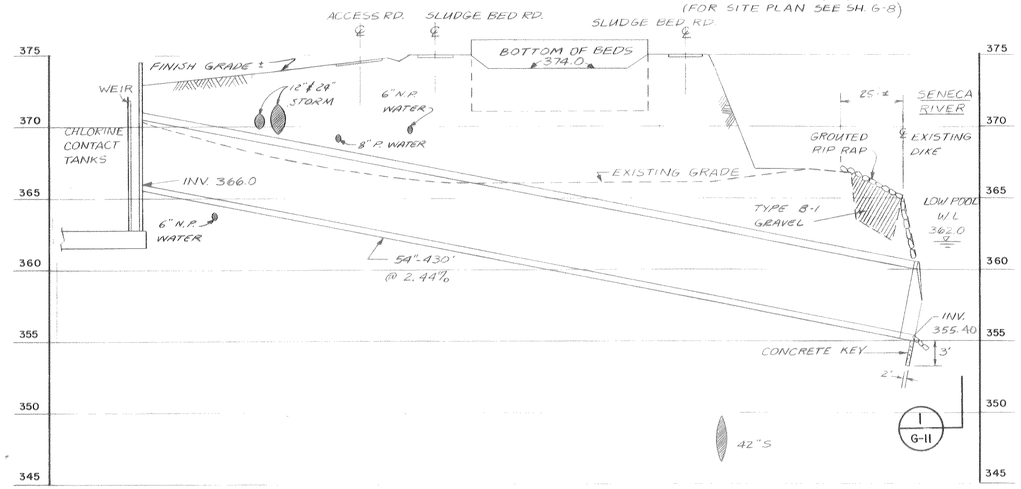
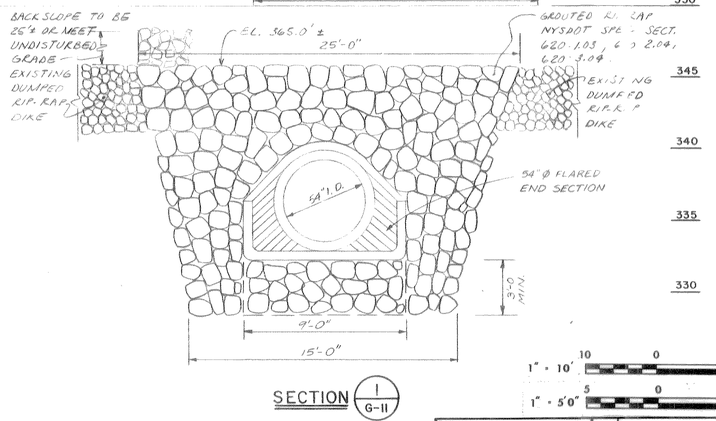


PROFILE
CONTROLLED DIVERSION OVERFLOW PIPE
VERT. SCALE: 1" = 5'-0"
HORIZ. SCALE: 1" = 5'-0"
(FOR SITE PLAN SEE SH. G-8)





SECTION I G-II
SCALE 1/4" = 1'-0"
RECORD DRAWING

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Date 9-8-83 Per FLD

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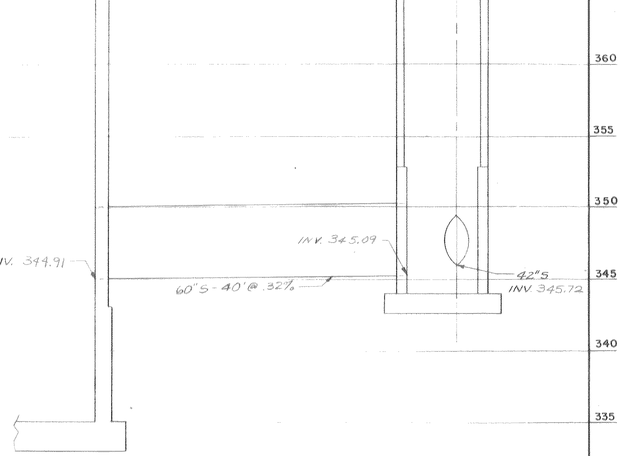

PROFILE
60" INFLUENT SEWER
VERT. SCALE: 1" = 5'-0"
HORIZ. SCALE: 1" = 10'-0"
(FOR SITE PLAN SEE SH. G-8)

1" = 40' 40 0 40 80
1/4" = 1'-0" 2 0 2 4 6 8 10

1" = 10' 10 0 10 20
1" = 5'0" 5 0 5 10

LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — STEPHEN G. BRUSIN — 13830

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF					JLS	9.8.83
2	FOR CONSTRUCTION G.J.B.	2-28-78	P.K.W.		P.K.W.	SGB	2-29-78
1	FOR APPROVALS G.J.B.	3-30-76	P.K.W.		P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel T. Stevenson — APPROVED S. G. Brusin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
SITE SEWERS
PROFILES & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET G-11

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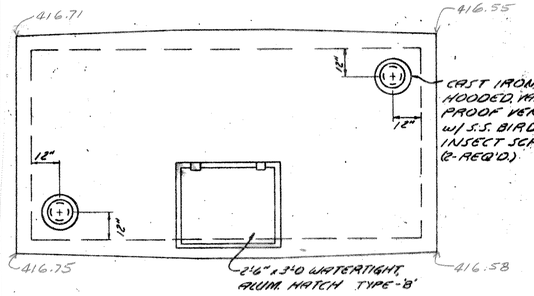
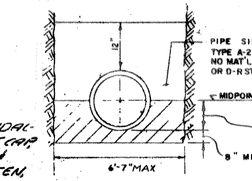
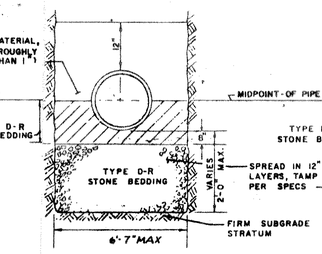


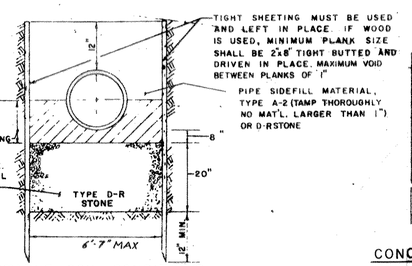
WATER METER PIT
TOP SLAB PLAN
SCALE : 3/8"=1'-0"



NORMAL SOIL CONDITIONS
TYPE I

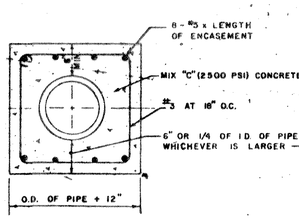


MODERATELY UNSTABLE
SOIL CONDITIONS
TYPE II

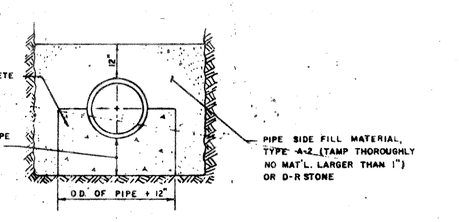


UNSTABLE SOIL CONDITIONS
TYPE III

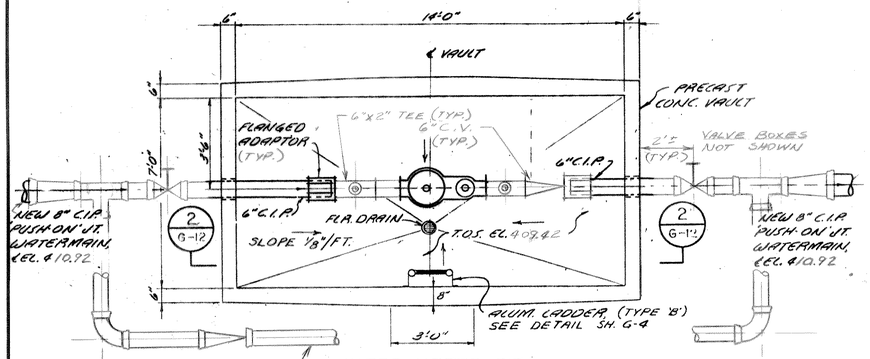
42" PIPE FOUNDATION DETAILS
(REFER TO SPECS., SECTION 20E)
NO SCALE



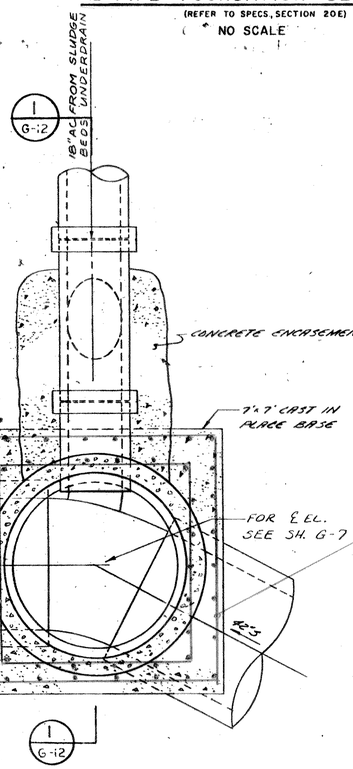
CONCRETE ENCASEMENT
TYPE IV



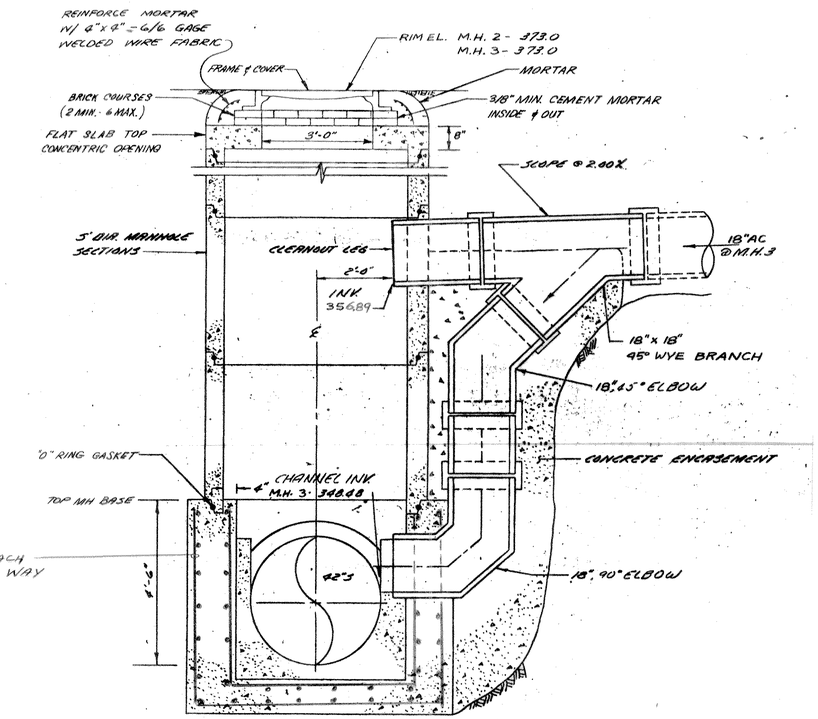
CONCRETE CRADLE
TYPE V



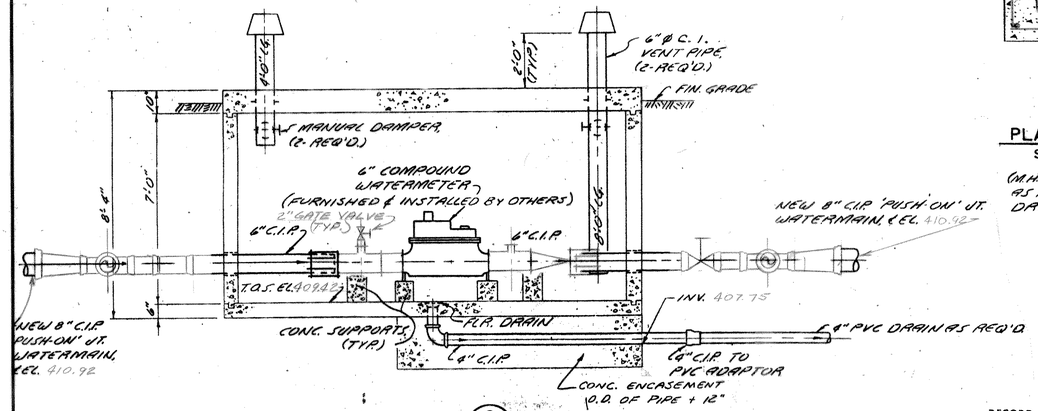
WATER METER PIT
PIPING PLAN
SCALE : 3/8"=1'-0"



PLAN-MH 2 - M.H. 3
SCALE: 1/2"=1'-0"
(M.H. 2, SAME DETAILS AS M.H. 3, w/o 18"ø DROP PIPE)



SECTION 1 G-12
SCALE: 1/2"=1'-0"



SECTION 2 G-12
SCALE : 3/8"=1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

1/2" = 1'0" 1 0 1 2 3 4 5
3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER STEVEN G. BRAUN 11810 UNIVERSITY OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9.8.83
	KLS					
2	FOR CONSTRUCTION				SGB	2-24-78
	G.P.V.	2.24.78	P.K.W.	P.K.W.		
1	FOR APPROVALS				SGB	3-31-76
	G.P.V.	3-30-76	P.K.W.	P.K.W.		

PROJECT SUPERVISOR Joel L. Brennan
APPROVED S. G. Braun

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
MANHOLE, TRENCHING DETAILS & METER VAULT

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET G-12

NOTE:
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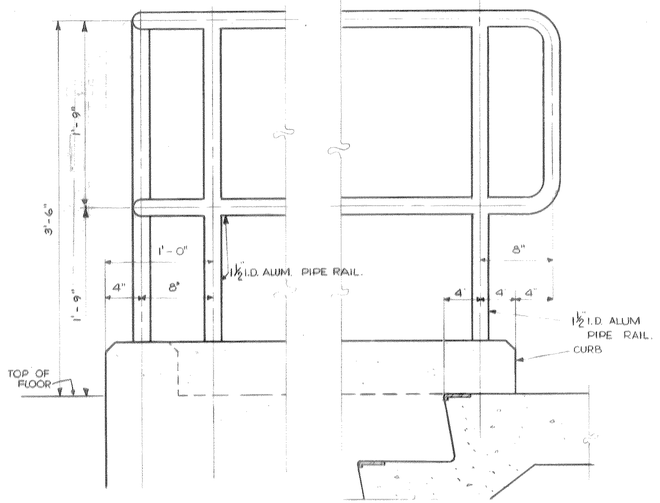
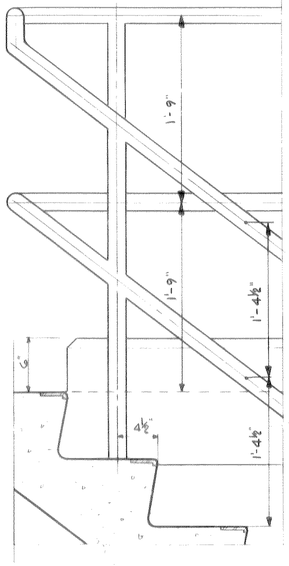
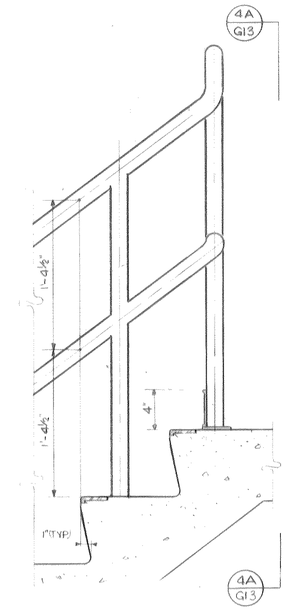


1 / A24 RAIL CORNER DET.
SCALE: 1½" = 1'-0"

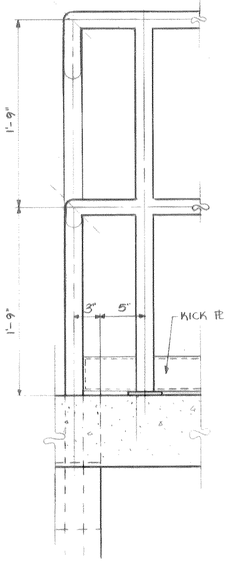


2 / A24 RAIL DET.-RAIL END
SCALE: 1½" = 1'-0"

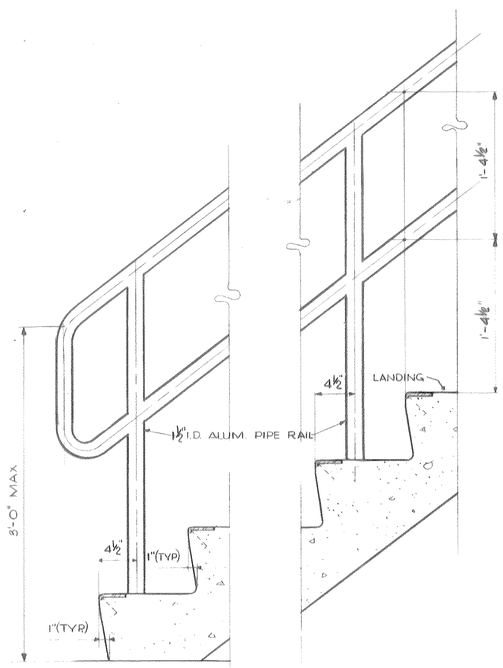
3 / A30 RAIL DET.-LANDING RETURN
SCALE: 1½" = 1'-0"



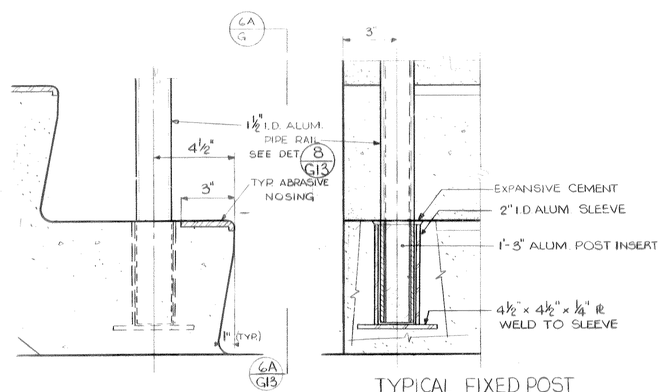
4 / A28 RAIL DET-LANDING TURN
SCALE: 1½" = 1'-0



4A / G13 RAIL DETAIL
SCALE: 1½" = 1'-0"

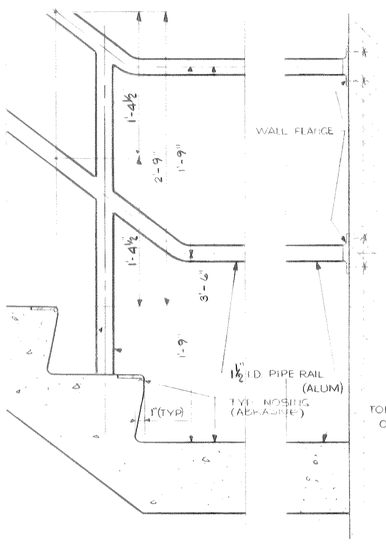


5 / G13 TYP. CONC. STAIR & RAIL
SCALE 1½" = 1'-0

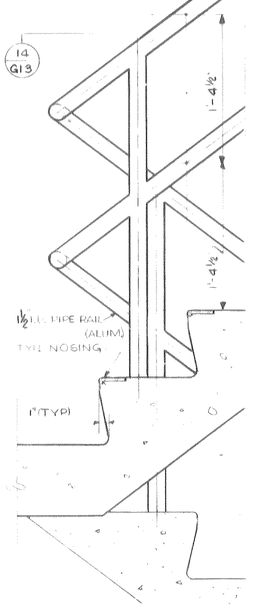


6 / G13 TYPICAL TREAD W/POST
SCALE: 3" = 1'-0"
(INTERIOR)

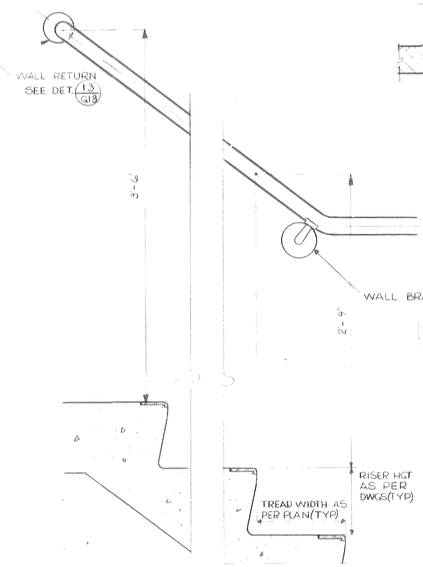
6A / G13 TYPICAL FIXED POST STAIR RAILING
SCALE: 3" = 1'-0"
(INTERIOR)



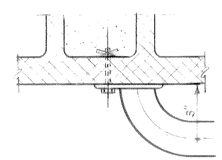
9 / G13 RAIL DET. - LANDING
SCALE: 1½" = 1'-0



10 / G13 RAIL DET. - LANDING RETURN
SCALE: 1½" = 1'-0"

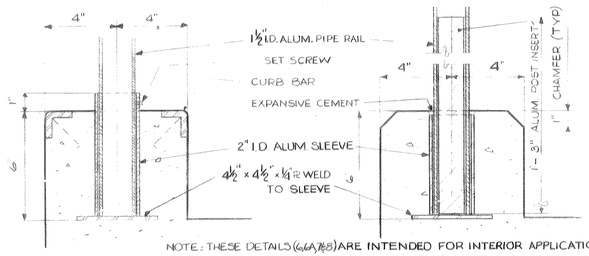


11 / G13 RAIL DET.- WALL MOUNT. HANDRAIL
SCALE: 1½" = 1'-0"



13 / G13 PLAN DETAIL HANDRAIL RET.
SCALE: 3" = 1'-0"

14 / G13 PLAN DETAIL
SCALE: 1½" = 1'-0"



NOTE: THESE DETAILS (6A/7&8) ARE INTENDED FOR INTERIOR APPLICATION ONLY. FOR EXTERIOR SEE SH G14

7 / G13 TYPICAL REMOVABLE POST
SCALE: 1½" = 1'-0

8 / G13 TYPICAL FIXED POST
SCALE: 1½" = 1'-0"

GENERAL NOTE:
REFER TO SPEC.'S 58-7-FASTENERS. ALL DISSIMILAR MET'S SHALL BE INSULATED PER SPEC.'S, ALSO BACK-PAINT ALUM. IN CONTACT W/ CONC. W/ BITUMINOUS OR ASPHALTIC PAINT

3" = 1'0" 0 3 6 9 1
1½" = 1'0" 1 6 0 1

RECORD DRAWING
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Date 9-8-83 Per FLD

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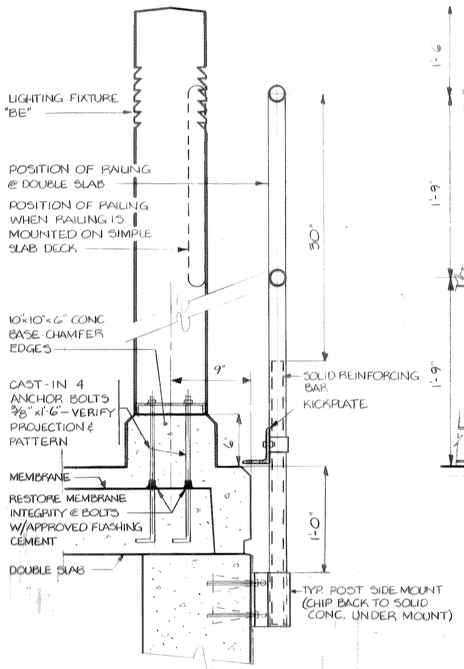
LICENSED PROFESSIONAL ENGINEER STERLING G. BRAYTON 71810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD K.L.S.				K.S.	9.8.83
2	FOR CONSTRUCTION V.A.	2-24-78	S.G.B.	R.A.R.	S.G.B.	3-24-78
1	FOR APPROVAL V.A.	3/30/76	G.S.D.	R.A.R.	S.G.B.	3/31/76

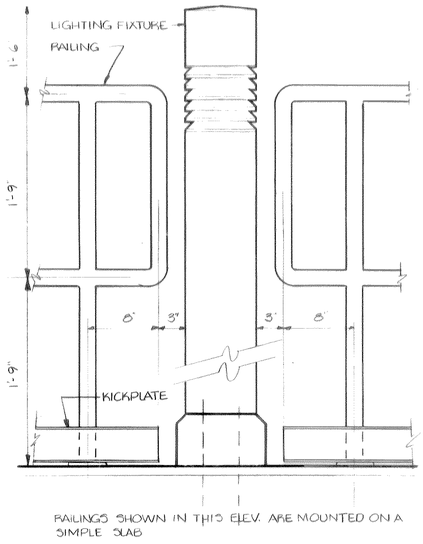
PROJECT SUPERVISOR G. S. Post APPROVED S.G. Brayton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
STAIR AND RAILING DETAILS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET G-13

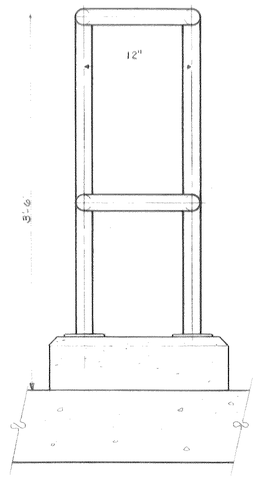


9/G14 LIGHTING FIXTURE @ DOUBLE SLAB SECT.
SCALE: 1½" = 1'-0"

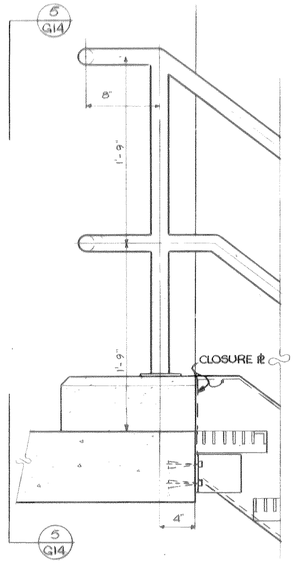


RAILINGS SHOWN IN THIS ELEV. ARE MOUNTED ON A SIMPLE SLAB

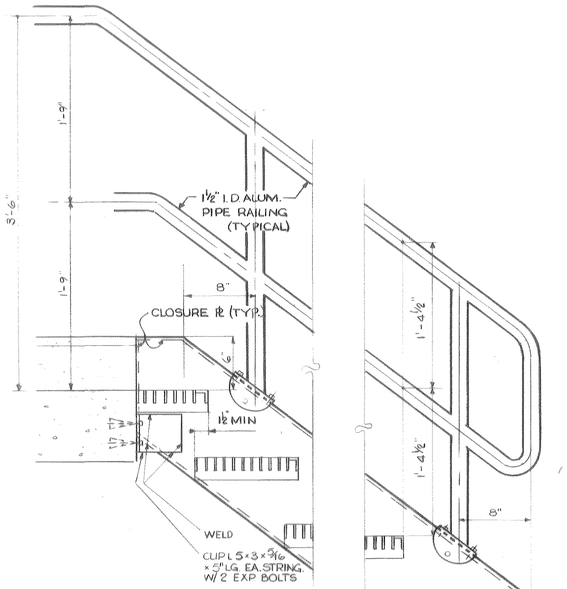
7/G14 LIGHTING FIXTURE-RAIL, INTERSECT.
SCALE: 1½" = 1'-0"



5/G14 HANDRAIL DET.
SCALE: 1½" = 1'-0"

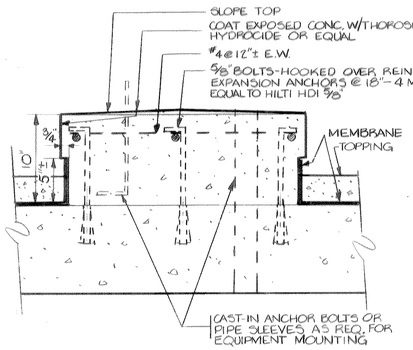


4/A28 HANDRAIL DET.
SCALE: 1½" = 1'-0"

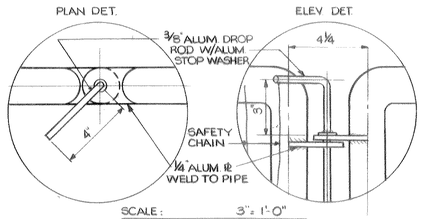


SCALE: 1½" = 1'-0"

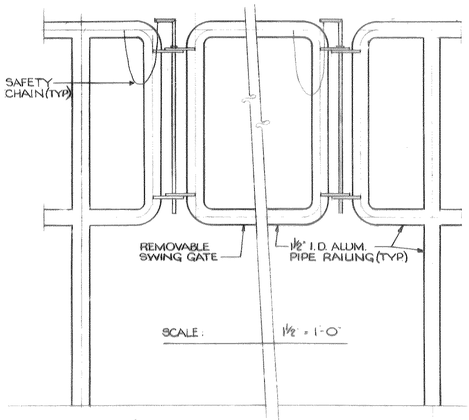
1/G14 TYP. ALUM. STAIR DET.; SECT.;
SCALE: AS NOTED



10/G14 TYP. EQUIPM'T. ANCHORAGE ON DOUBLE SLAB
SCALE: NONE

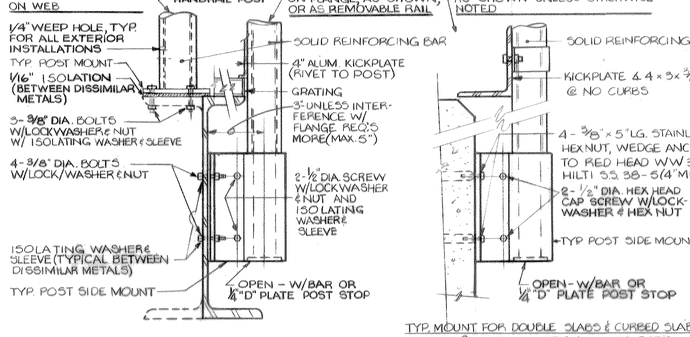


SCALE: 3" = 1'-0"



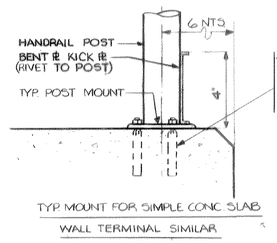
SCALE: 1½" = 1'-0"

8/G14 SWING GATE DETAIL
SCALE: AS NOTED



CHANNEL AND/OR BEAM

TYP. MOUNT FOR DOUBLE SLABS & CURBED SLABS
SEE 9/G14 FOR ADDITIONAL MTG. DET.S



TYP. MOUNT FOR SIMPLE CONC. SLAB
WALL TERMINAL SIMILAR

NOTES:

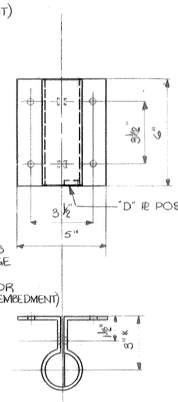
A. WITH STEEL SUPPORT MEMBERS PROVIDE 1/16" PLAS. LAM. OR APPROVED EQUAL ISOLATION STRIP BETWEEN STEEL AND ALUMINUM AND ONE PIECE ISOLATING WASHER & SLEEVE ON SCREWS

B. PAINT ALUMINUM TO BE IN CONTACT W/ CONCRETE W/ ONE COAT ASPHALTIC PAINT PER SECTION 9A OF SPECIFICATIONS

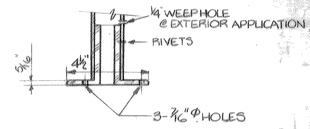
C. ALL SCREWS, NUTS & BOLTS AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL.

ALL STAIRS FOR PROJECT:
ALL STAIRS 44" AND WIDER SHALL HAVE RAILINGS BOTH SIDES. STAIRS LESS THAN 44" SHALL HAVE ONE RAILING, UNLESS NOTED OTHERWISE. RAILING SHALL BE TWO RAIL SECTIONS AT ALL OPEN SIDES AND ONE SINGLE RAIL AT CLOSED SIDES. THIS INCLUDES ALL PLATFORMS AND LANDINGS IN THE RUN OF THE STAIRWAY.

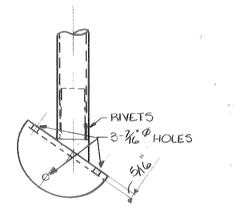
6/G14 ALUM. HANDRAIL MOUNTING DETAILS
NO SCALE



3/G14 TYP. POST SIDE MOUNT
SCALE: 3" = 1'-0"



SECTION - TYP. POST MOUNT: FLOOR FLANGE



ELEV. - SECTION - TYP. POST MOUNT; STRINGER FLANGE

2/G14 TYP POST MOUNTS
SCALE: 3" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

3" = 1'0" 0 3 6 9 1
1½" = 1'0" 6 0 1
¾" = 1'0" 1 0 1 2 3

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LICENSED PROFESSIONAL ENGINEER STERLING C. BRUSSEL 31810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					
	K.L.S.				K.L.S.	9.8.83
2	FOR CONSTRUCTION					
	V.A.	2-24-78	G.S.D.	R.A.R.	S.C.B.	2-24-78
1	FOR APPROVAL					
	V.A.	3/20/76	G.S.D.	R.A.R.	S.C.B.	3/31/76

PROJECT SUPERVISOR: Richard A. Rust
APPROVED: S. C. Brussel

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
STAIR AND RAILING DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET G 14

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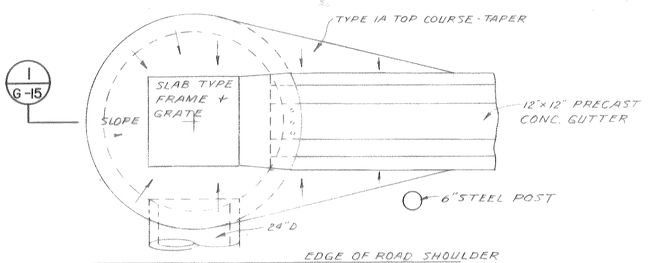
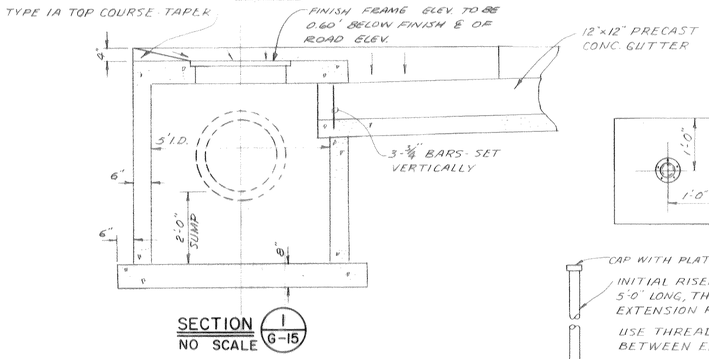
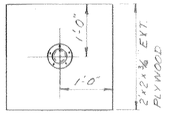


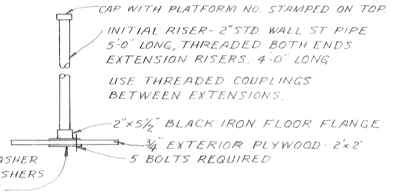
PLAN



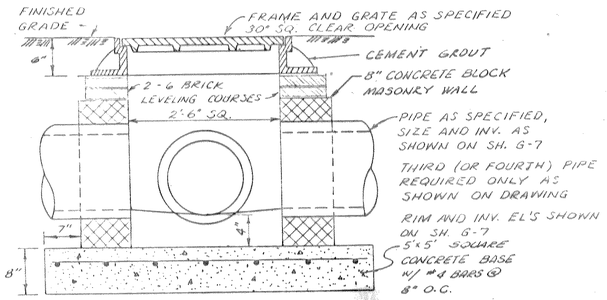
SECTION 1/G-15
NO SCALE

TYPE 'C' CATCH BASIN
AT C.B. NO. 3,4,5,18





SETTLEMENT PLATFORM DETAIL
NO SCALE



TYPE 'A' STORM CATCH BASIN DETAIL
NO SCALE
AT C.B. NO. 8,9,10,11,12,19,20

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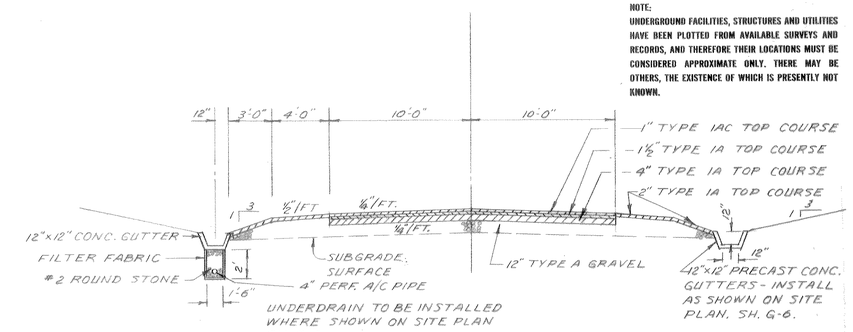
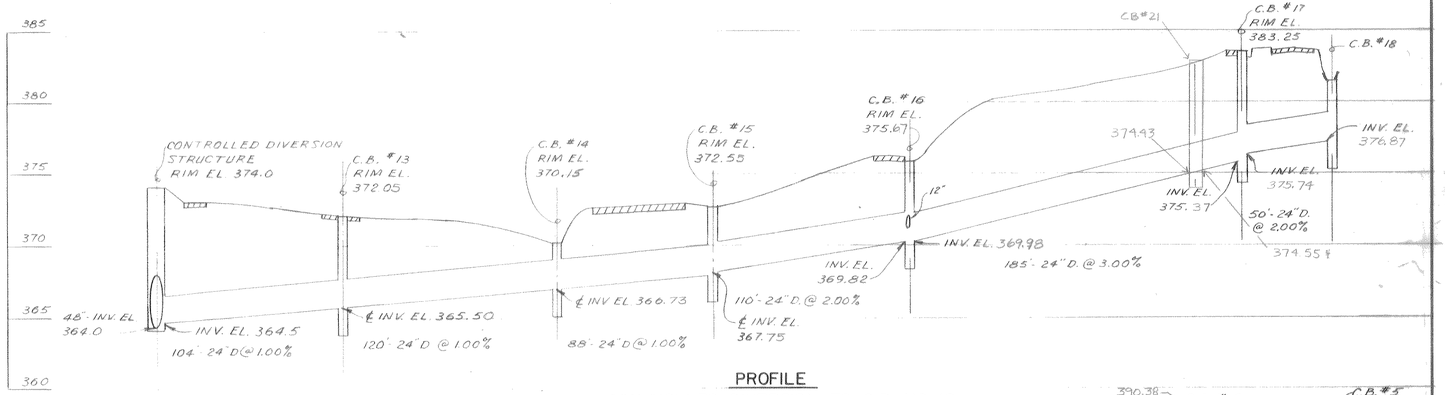
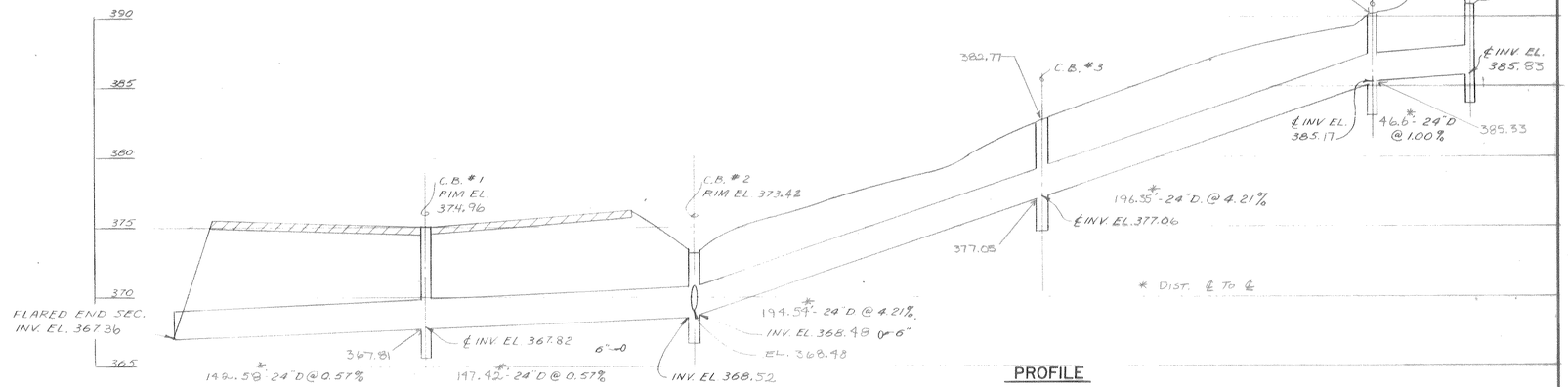


TYPICAL ROAD SECTION
TYPE 'A'
NO SCALE

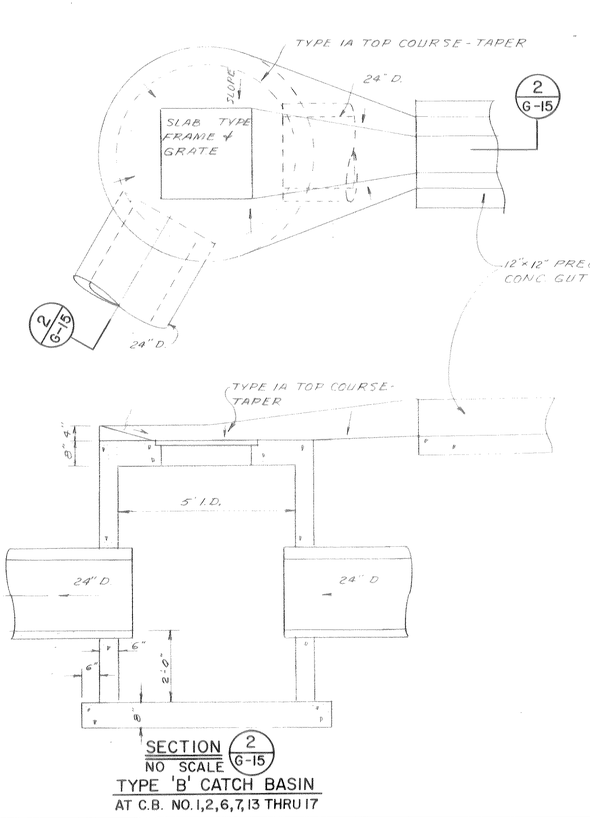
NOTES:
1- PAVEMENT WIDTH AND SLOPES VARY PER SITE PLAN (SH. G-6).
2- FURNISH AND INSTALL TYPE 'A' PAVEMENT FOR ACCESS ROAD AND ALL OTHER PAVEMENTS EXCEPT SLUDGE DRYING BEDS AREA, ALSO SEE SPECIFICATIONS, SECTION 2H.



PROFILE
CONTROLLED DIVERSION TO C.B. NO. 18
VERT. SCALE: 1" = 5'-0" HORZ. SCALE: 1" = 40'-0"



PROFILE
C.B. NO. 5 TO OUTFALL (BY N.Y.S. FLOOD RIGHTS)
VERT. SCALE: 1" = 5'-0" HORZ. SCALE: 1" = 40'-0"



SECTION 2/G-15
NO SCALE

TYPE 'B' CATCH BASIN
AT C.B. NO. 1,2,6,7,13 THRU 17

RECORD DRAWING
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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRISBIN 71810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				KLS	9.8.83
2	KLS				SGB	2-24-78
	FOR CONSTRUCTION					
	A.F.W.	12-29-77	P.K.W.	P.K.W./F.B.	SGB	2-24-78
1	FOR APPROVALS					
	A.F.W.	2-3-78	P.K.W.	P.K.W./F.B.	SGB	2/7/78

PROJECT SUPERVISOR: Joel Lawman
APPROVED: S G Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
DETAILS - ROAD AND STORM SEWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET G-15

* NOTE: SOME COMPLEX AREAS: SEE PLAN FOR ADDITIONAL (G.W.F.) NOTES & CLARIFICATION

ALL PLASTER IS GYPSUM PLASTER FINISHED WITH KEENE'S CEMENT WATERPROOF COATING FINISHED WITH PAINT

AD # 4 THE AT.2 CEILING ACOUSTICAL UNITS AND GRID SHALL PROVIDE A 1-HR U.L. RATING

SEE SHEET A-4 FOR GENERAL ARRANGEMENT OF BUILDINGS

NOTE: TRIM INCLUDES H.M. DOORS & FRAMES & MISC. MET. ITEMS AND/OR STRUCT. STL. ITEMS - NOT COVERED ELSEWHERE

MAJOR AREA CEILING HT. SHOWN - CHECK DETAILS ETC. FOR AREAS THAT VARY

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

INTERIOR COLOR SCHEDULE

COLOR NO	MATERIAL	COLOR	GENERAL USE
1	PAINT (PT.)	#376 DRIFTWOOD GRAY	WALLS
2	PAINT (PT.)	#311 WHITE	CEILINGS
3	PAINT (PT.)	#378 ANTIQUE IVORY	WALLS & CEILINGS
4	PAINT (PT.)	#369 EVEREST GREEN	WALLS
5	PAINT (PT.)	MATCH DURANODIC DK. BRONZE	MET. DOORS, FRAMES, TRIM
6	GLAZED WALL FINISH (G.W.F.) *	BASE COAT 65-19 IVORY; SPATTER COATS 19-12 BROWN, 22-33 OFF-WHITE	GYP. BD., COL. COVERS, WALLS & CEILINGS, MISC MET., STRUCT STEEL, ETC.
7	ACID - RESISTANT GLAZED WALL FINISH (A.R.G.W.F.)	SAME AS ABOVE	WALLS
8	ACID - RESISTANT SEAMLESS FLOOR COVERING (A.R.S.F.C.)	SAME AS ABOVE	FLOORS (FERRIC CHLORIDE TANK AREA)
9	QUARRY TILE (Q.T.) OR ABRASIVE Q.T. (ABR. Q.T.)	FALCON GRAY	FLOORS, BASE
10	CERAMIC TILE	DRIFT WOOD	FLOORS
11	CERAMIC TILE	BEACH TAN	WALLS
12	CERAMIC TILE	SALT & PEPPER	LABORATORY WALLS
13	CARPET	GRO-POINT 50418 COPPERTWEED	FLOORS (SEE SPECS)
14	ASBESTOS CEMENT OVER SPANDREL GLASS PANELS - FIELD PT.	#378 ANTIQUE IVORY	SPANDREL GLASS BACKUP
15	ACOUSTIC TILE (A.T.I, A.T.II)	FACTORY FINISH WHITE	CEILINGS
16	BRICK (GRAY MORTAR FOR BRICK; WHITE MORTAR FOR DEC. BLOCK)	WHITACRE-GREER #3580 MARYLAND C.P. MOCHA BROWN	MISC WALLS
17	WOOD	NATURAL	CABINETS, DOORS
18	TOILET PARTITIONS	#91 GREEN	
19	LOCKERS	#701 GREEN	
20	CABINETS, LAB.	* WHITE/BLACK/GREY, FACTORY FINISH	LAB EQUIPMENT SEE A-22
21	CABINET COUNTERTOPS	BLACK	
22	TERRAZZO	#3989 W/PATTERN #5 (SEE SPEC'S. SECT. 9K) TYPE 80 WHITE OR GRAY	STAIR
23	SPRAYED MINERAL FIBER INSULATION (AD #9)		GALLERY CEILINGS & AS NOTED
24	ACID-RESISTANT GROUT	GRAY	Q.T.
25	CALKING	MATCH ADJACENT SURFACES - VERIFY W/ ENGINEER	JOINTS @ ALL LOCATIONS
26	QUARRY TILE	OXFORD GREY	LABORATORY FLOORS

EXTERIOR COLOR AND FINISH SCHEDULE

MATERIAL	FINISH	COLOR
PRECAST EXPOSED AGGREGATE PANELS	EXPOSED AGGREGATE	GRAY CEMENT, NATURAL AGGREGATE COLOR
PRECAST FACIA PANELS	ACID ETCHED TO SAND FIN	WHITE
ALUMINUM WINDOW FRAMES, DOORS, FRAMES & TRIM	ANODIZED	DURANODIC DARK BRONZE
EXTERIOR DOOR & WINDOW HARDWARE (ALUMINUM) INCL. ALL TRIM, SILLS, ETC	ANODIZED	DURANODIC-DARK BRONZE
HOLLOW METAL JAMBS, DOORS & TRIM	PAINT	MATCH DURANODIC DARK BRONZE
MET. TRIM		
STEEL JAMBS & ROLL-UP DOORS		
STEEL GUARD POSTS		
EXPOSED STEEL (CRANE RAILS, ETC.)		
ANY MISC. MET. ITEM NOT OTHERWISE COVERED		
GLASS	———	SOLAR BRONZE OUTER (CLEAR INNER)
INSUL SPANDREL GLASS PANEL	———	HARMONY SOLAR BRONZE
LOUVERS	ANODIZED	DURANODIC DARK BRONZE
MECHANICAL EQUIPMENT (ROOF)	PAINT	MATCH DURANODIC DARK BRONZE
RAILINGS	ANODIZED	CLEAR (SEE MISC. METAL SPEC.)
K.C. PLASTER (SOFFITS)	PAINT	WHITE #311
CALKING	———	MATCH ADJACENT SURFACES (COORD W/ENGR)
BRICK [MORTAR]	———	WHITACRE-GREER #3580 MARYLAND C.P. MOCHA BROWN [MORTAR COLOR GRAY]
ORNAMENTAL BLOCK [MORTAR]	———	WHITE [MORTAR COLOR SHALL BE WHITE]
EXPOSED CONCRETE WALLS	BOARD MARKED	NATURAL GRAY
EXPOSED CONCRETE FOUNDATION WALL	SMOOTH TYPE "V"	NATURAL GRAY
EXPOSED CONCRETE (HORIZ) WALKWAYS, TANKS, SIDEWALKS, TANK AND GALLERY DECKS	BROOM OR BELT TYPE	NATURAL GRAY

RECORD DRAWING

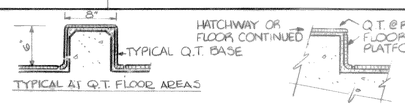
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

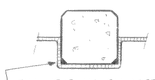
ROOM FINISH SCHEDULE

CONTROL BUILDING "A"

ROOM NO	ROOM NAME	FLOOR MAT	FLOOR FIN.	FLOOR COL.	BASE MAT.	BASE FIN.	BASE COL.	WALLS MAT.	WALLS FIN.	WALLS COL.	TRIM MAT.	TRIM FIN.	TRIM COL.	CEILING MAT.	CEILING FIN.	CEILING COL.	HT.	REMARKS	ROOM NO
	BASEMENT																		
A-01	INFLUENT ROOM	CONC	"G"	—	—	—	—	CONC	V	—	MET.	PT.	5	CONC.	V/PT.	2	23'±		A-01
A-02	PUMP ROOM	CONC	"G"	—	—	—	—	CONC.	V	—	MET.	PT.	5	CONC.	V/PT.	2	38'±		A-02
A-03	STAIR	ABR.* Q.T.	—	9	Q.T.	—	9	BLK/CONC	PT/V	3/3	MET.	PT.	5	CONC.	V/PT.	2	10'±	PAINT CL'G. & UNDER STAIR (#2) * FLOOR & LANDINGS EPOXY COAST TERRAZZO STAIRS	A-03
A-04	TUNNEL	CONC.	"C"	—	—	—	—	BLK/CONC	—/V	—	MET.	PT.	5	CONC.	V/PT.	2	10'±		A-04
A-05	TRAINING RM.	CONC.	"G"	13	CONC.	(SEE DET 12/A-12)	13	GYP. BD.*	PT	3	MET	PT.	5	A.T.2	—	15	8'-0"	* WALLS-5/8" MOISTURE RESISTANT GYP. BD. OVER 1X4. PRESERVATIVE GALVANIZED STEEL FURRING STRIPS. SEE SPECS, 9C.	A-05
A-07	CHEMICAL FEED AREA * ACID RESISTANT GROUT	Q.T.	—	9	Q.T.	—	9	BLK/CONC	A/R GWF	6	MET.	PT.	5	CONC.	V/PT.	2	10'±		A-07
A-101	A109 NOT USED																		
A-110	HALL	ABR. Q.T.	—	9	Q.T.	—	9	BLK	GWF	6	MET	PT.	5	STRUCT EXPOSD	V/PT.	2	9'±		A-110
A-111	VESTIBULE	ABR. Q.T.	—	9	Q.T.	—	9	BRICK	—	16	MET.	PT.	5	A.T.2	—	15	11'-0	PAINT COL #5	A-111
A-112	LOBBY	ABR. Q.T.	—	9	Q.T.	—	9	BRICK	—	16	MET.	PT.	5	A.T.2	—	15	11'-0	PAINT CREST OF ONON. CTY DEPT. OF DRAINAGE & SANITATION ON WOOD PANEL OVER DOOR A-110 24" DIAMETER	A-112
A-113	TRANSFORMER I	STONE FILL	—	—	—	—	—	*BRICK	—	16	MET.	PT.	5	—	—	—	—	* DECORATIVE KNOCKOUT PANEL	A-113
A-114	TRANSFORMER II	STONE FILL	—	—	—	—	—	*BRICK	—	16	MET.	PT.	5	—	—	—	—	* DECORATIVE KNOCKOUT PANEL	A-114
A-115	TRANSFORMER III	STONE FILL	—	—	—	—	—	*BRICK	—	16	MET.	PT.	5	—	—	—	—	* DECORATIVE KNOCKOUT PANEL	A-115
A-116	SWITCH GEAR RM.	CONC	"D"	—	Q.T.		9	BLK	PT.	3	MET.	PT.	5	CONC	V/PT	2	13'±		A-116
A-117	CONFERENCE RM.	CONC	CARPET	13	CARPET	—	13	BRICK	PT.	16	MET.	PT.	5	A.T.2	—	15	10-0	CAB. 159 & 160 EXT. WALLS: OAK VENEER PLYWD. CLEAR FIN. (MATCH WD. W/ DOORS). PROVIDE DRAPERIES	A-117
A-118	OFFICE	CONC	CARPET	13	Q.T.	—	9	BLK/CONC	PT.	N-1 SEW-3	MET.	PT.	5	A.T.2	—	15	7'-6"	F.O. # 20 PROVIDE DRAPERIES	A-118
A-119	VESTIBULE	ABR. Q.T.	—	9	Q.T.	—	9	BLK/CONC	PT.	3	MET.	PT.	5	PLAS. K.C.	PT.	2	SEE DWGS	CEILING AT TOP OF STAIRWAY: AT 1 * ALSO NOTE PLASTER SOFFITS & REVEALS	A-119
A-120	OFFICE	CONC	CARPET	13	Q.T.	—	9	BLK/CONC	PT.	N-1 SEW-3	MET.	PT.	5	A.T.2	—	15	7'-6"	F.O. # 20 PROVIDE DRAPERIES	A-120
A-121	CORRIDOR	ABR. Q.T.	—	9	Q.T.	—	9	BLK	PT.	3	MET.	PT.	5	A.T.2	—	15	7'-6"	D.W. DOOR COLOR - 5 F.O. # 20	A-121
A-122	MECHANICAL EQUIPMENT RM.	CONC	"D"	—	—	—	—	BLK	—	—	MET.	PT.	5	STRUCT. EXPOSD	—	—	9'±		A-122
A-123	REF. AREA	Q.T.	—	9	Q.T.	—	9	BLK	PT.	3	MET.	PT.	5	A.T.2	—	15	7'-8		A-123
A-124	MEN'S TOILET ROOM	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT.	2	8'-0		A-124
A-125	JANITOR CLO	CER.T.	—	10	CER.T.	—	11	*BLK.	PT.	3	MET.	PT.	5	PLAS. K.C.	PT.	2	8'-0	* CER.T. WAINSCOT AT JAN. SINK 4'-0" HT.	A-125
A-126	WOMEN'S TOILET ROOM	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT.	2	8'-0		A-126
A-127	HALL	ABR. Q.T.	—	9	Q.T.	—	9	BLK.	PT.	3	MET.	PT.	5	AT.2	—	15	8'-0		A-127
A-128	STORAGE	CONC.	"D"	—	Q.T.	—	9	BLK.	PT.	3	MET.	PT.	5	AT.2	—	15	7'-6"		A-128
A-129	SLUDGE LOADING AREA	ABR. Q.T./CONC.	24/"H"	9	Q.T	24	9	BLK	GWF	6	MET.	PT.	5	STRUCT EXPOSD	V & GWF	6	16'±	*GWF ON CEILING BETWEEN COL'S. 7 & 8, ENTIRE BAY W/EXCEPTION OF POLYMER STOR. A-136 & ALCOVE 7A-7B	A-129
A-130	HALL	Q.T.	—	9	BRICK	—	16	BRICK	—	16	MET.	PT.	5	SPRAY INSUL	PT	2	16'±		A-130
A-131	CHEMICAL STORAGE	CONC.	"G"	—	Q.T.	—	9	BLK	PT.	1	MET.	PT.	5	STRUCT EXPOSD	V/PT	2	16'±		A-131
A-132	PARTS & EQUIPMENT ROOM	CONC.	"G"	—	Q.T.	—	9	BLK	PT.	1	MET.	PT.	5	STRUCT EXPOSD	V/PT	2	16'±		A-132
A-133	LIME CONDITIONING ROOM	Q.T.	24	9	Q.T.	24	9	BLK	A/R GWF	7	MET.	PT.	5	STRUCT EXPOSD	V/GWF	6	16'±		A-133
A-134	SCREENINGS ROOM	CONC	"H"	—	Q.T.	—	9	BLK	GWF.	6	MET.	PT.	5	STRUCT EXPOSD	—	—	26'±	EMORY HD FLOOR	A-134
A-135	GENERATOR ROOM & MEZZANINE	CONC	"D"	—	Q.T.	—	9	BLK	PT.	3	MET.	PT.	5	STRUCT EXPOSD	—	—	12'± 15'±	MEZZANINE GENERATOR RM.	A-135
A-136	POLYMER STORAGE ROOM	ABR. Q.T.	—	9	Q.T.	—	9	BLK/CONC	GWF	6	MET.	PT.	5	STRUCT EXPOSD	—	—	16'±		A-136
A-137	FERRIC CHLORIDE CONTAINMENT	CONC	* A/R SFC	8	—	—	—	BLK/CONC	A/R GWF	7	MET.	PT.	5	STRUCT EXPOSD	—	—	16'±	* SEE DET. 2/A-12. INCLUDE GUTTER.	A-137
A-138	VESTIBULE	CONC	"G"	—	Q.T.	—	9	BLK	PT.	3	MET.	PT.	5	AT.2	—	15	10'-0"		A-138
A-139	LUNCH ROOM	CER.T.	—	10	Q.T.	—	9	BLK	PT.	N-4 SEW-3	MET.	PT.	5	A.T.1	—	15	10'-0	PROVIDE DRAPERIES	A-139
A-140	CORRIDOR	CONC.	"G"	—	Q.T.	—	9	BLK	PT.	3	MET.	PT.	5	A.T.1	—	15	10'-0		A-140
A-141	INVENT. FILES & MAINT. FOREMAN	CONC	"G"	—	Q.T.	—	9	PLAS. BLK	PT.	3	MET.	PT.	5	A.T.1	—	15	12'-0"		A-141
A-142	STORAGE	CONC	"D"	—	—	—	—	BLK	—	—	MET.	PT.	5	STRUCT EXPOSD	—	—	17'±		A-142
A-143	ELEC. SHOP	CONC	"G"	—	—	—	—	BLK.	PT.	S-1 NEW-3	MET.	PT.	5	A.T.1	—	15	13'-0"	PROVIDE WORKBENCH (24/A-14)	A-143
A-144	GARAGE & SHOP AREA	CONC	"H"	—	—	—	—	BLK	PT.	3	MET.	PT.	5	STRUCT EXPOSD	—	—	17'±	PROVIDE WORKBENCH	A-144
A-145	NOT USED	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		A-145
A-146	LOCKER RM	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT	2	8'-0		A-146
A-147	SHOWER	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT	2	8'-0		A-147
A-148	TOILET	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT	2	8'-0		A-148
A-149	LOCKER	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT	2	8'-0		A-149
A-150	SHOWER	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT	2	8'-0		A-150
A-151	TOILET	CER.T.	—	10	CER.T.	—	11	CER.T.	—	11	MET.	PT.	5	PLAS. K.C.	PT	2	8'-0		A-151
A-152	LUNCH RM	CER.T.	—	10	Q.T.	—	9	BLK	PT.	N-4 SEW-3	MET.	PT.	5	A.T.1	—	15	10'-0		A-152
A-153	GARAGE & WORK AREA	CONC	"H"	—	—	—	—	BLK	PT.	3	MET.	PT.	5	STRUCT. EXPOSD	—	—	17'±		A-153
A-154	STORAGE	CONC	"D"	—	—	—	—	BLK	—	—	MET	PT	5	STRUCT EXPOSD	—	—	17'±		A-154
A-155	STORAGE	CONC	"D"	—	—	—	—	BLK	—	—	MET	PT.	5	STRUCT EXPOSD	—	—	17'±		A-155



TYP. Q.T. BASE SECTION DETAILS
NO SCALE



TYP. PLAN DETAIL: Q.T. BASE AT COL.
NO SCALE

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

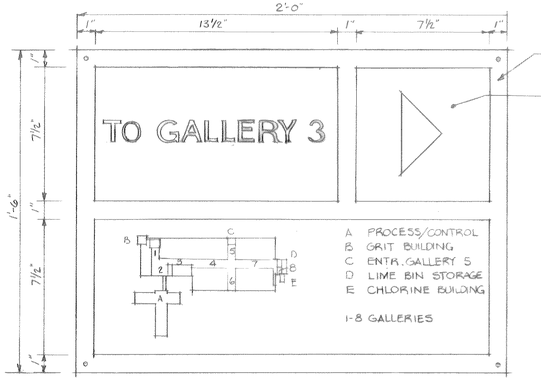
NO.	ISSUE	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD	ABF		SPM		JWS	9/8/83
2	APPROVED FOR CONSTRUCTION	GD	12/21/81	GSD	PA	SLB	12/29/82
1	FOR APPROVAL	LEW	6/22/81	GSD	PA	SLB	7/1/82

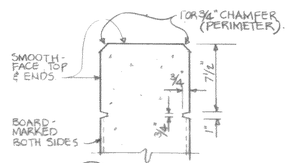
PROJECT SUPERVISOR: S.G. Brisbin — APPROVED

ONONDAGA COUNTY NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING AND PROCESS STRUCTURE
ROOM FINISH SCHEDULE

STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

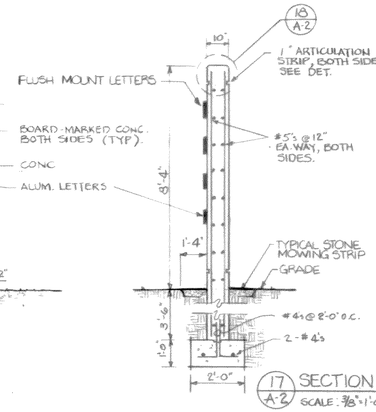
JOB NO. 577 CONTRACT NO. 1 SHEET A-1





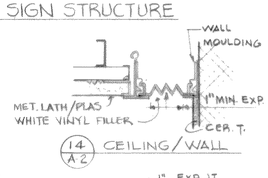
18 / A-2 DET. SECT.
SCALE: 1½"=1'-0"

19 / A-2 TYP. DIRECTORY SIGN
NO SCALE



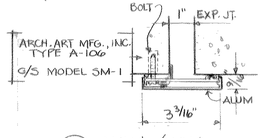
16 / A-2 ELEVATION, SIGN STRUCTURE
SCALE: 3/8"=1'-0"

17 / A-2 SECTION
SCALE: 3/8"=1'-0"

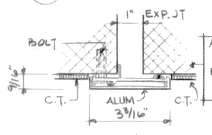


14 / A-2 CEILING/WALL

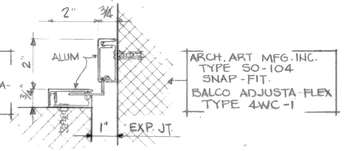
C/S MODEL HCW-100 MM SYSTEMS CORP. TYPE CX-100



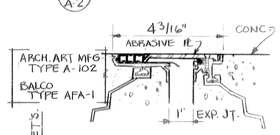
9 / A-2 WALL/WALL

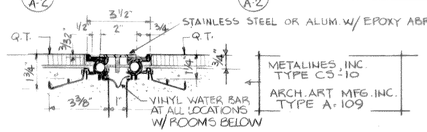


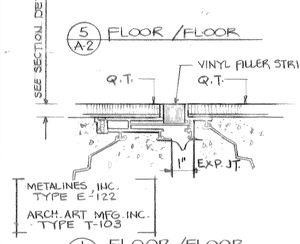
10 / A-2 WALL/WALL



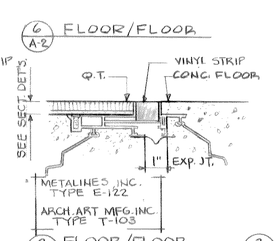
11 / A-2 WALL/WALL @ CORNER



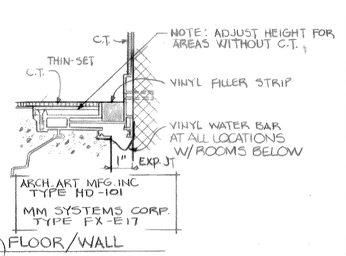




5 / A-2 FLOOR/FLOOR



6 / A-2 FLOOR/FLOOR



1 / A-2 FLOOR/FLOOR

2 / A-2 FLOOR/FLOOR

3 / A-2 FLOOR/WALL

TYPICAL EXPANSION JOINT DETAILS

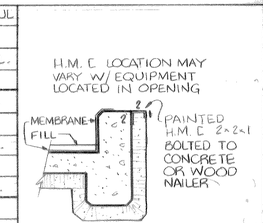
NOTE: ALL FINISH CONDITIONS ARE NOT SHOWN. ADJUST SETTING HEIGHTS OF EXPANSION JOINT COVERS (TRIM), TO ALLOW FOR VARIOUS WALL/FLOOR/CEILING FINISH CONDITIONS. SEE SECTION DETAILS FOR 3/4" OR 2" DEPTH OF Q.T. SETTING BED REQUIRED. SLABS ON GRADE ARE 3/4" THINSET & STRUCTURAL SLABS ARE 2" TOTAL THICKNESS FOR QUARRY TILE AND SETTING BED

REFER TO SPEC'S. SECTION 5B-7 FOR INSULATING BETWEEN DISSIMILAR MATERIALS.

ROOM FINISH SCHEDULE

SPRAY INSUL. REFERS TO SPRAYED MINERAL FIBER INSULATION

	ROOM No	ROOM NAME	FLOOR MAT.	FLOOR FIN.	FLOOR COL.	BASE MAT	BASE FIN	BASE COL	WALLS MAT.	WALLS FIN	WALLS COL	TRIM MAT	TRIM FIN	TRIM COL	CEILING MAT.	CEILING FIN	CEILING COL	CEILING HT.	REMARKS	ROOM NO
"A" CONTROL BLDG	A-156	STAIR (OVER VESTIBULE A-19 SEE SHEET A-7)	ABR. Q.T.	—	9	Q.T.	—	9	BLK. CONC.	PT.	3	MET.	PT.	5	AT 2	—	15	11'-9"±	PAINT RAS. SOFFITS UNDER STAIRS (#2). SEE SH. A-16. TERRAZZO STAIR TREADS	A-156
	A-157	ELEC. CLOSET	CONC.	D	—	—	—	—	BLK.	—	—	MET.	PT.	5	STRUCT EXP.	—	—	9'±	SEAL TIGHT ALL CONDUIT OPG'S. IN WALL, FLOOR, ETC.	A-157
	A-158	CLOSET	CONC.	D	—	—	—	—	BLK.	—	—	MET.	PT.	5	STRUC EXP.	—	—	9'±		A-158
	A-159	CABINET	CONC.	CARP.	13	—	—	—	WD.	PLYWD.	17*	WD.	PT.	17	WD.	—	15	8'-0"	* WALLS & SHELVING: OAK VENEER PLYWD. 5 SHELVES, FULL DEPTH. SEE 4/A-10	A-159
	A-160	CABINET	CONC.	CARP.	13	—	—	—	WD.	PLYWD.	17*	WD.	PT.	17	WD.	—	15	8'-0"	* WALLS & SHELVING: OAK VENEER PLYWD. 5 SHELVES, FULL DEPTH.	A-160
	A-201	VESTIBULE	ABR. Q.T.	—	9	Q.T.	—	9	BLK.	PT.	3	MET.	PT.	5	AT 1	—	15	8'-0"		A-201
	A-202	CONTROL R.M.	Q.T.	—	9	Q.T.	—	9	BLK./GYP.	PT.	1	MET.	PT.	5	AT 1	—	15	11'-9"	PROVIDE DRAPERIES @ WINDOWS (NORTH WINDOW ONLY)	A-202
	A-203	MOTOR CONTROL CTR. & ELEC. RM.	CONC.	"G"	—	Q.T.	—	9	BLK./GYP.	PT.	3	MET.	PT.	5	STRUC EXP.	PT.	2	16'±		A-203
	A-204	TRAINING	CONC.	CARP.	13	Q.T.	—	9	BLK.	PT.	3	MET.	PT.	5	AT 1	—	15	8'-0"	PROVIDE 12' x 4' CHALKBOARD, WEST WALL. 1/A-7	A-204
	A-205	BACTERIOLOGY	Q.T.	—	9	CER.T.	—	12	CER.T.	—	12	MET.	PT.	5	AT 1	—	15	8'-0"		A-205
	A-206	OFFICE	Q.T.	—	9	CER.T.	—	12	CER.T.	—	12	MET.	PT.	5	AT 1	—	15	11'-9"	PROVIDE DRAPERIES @ WINDOWS	A-206
	A-207	LABORATORY	Q.T.	—	26	CER.T.	—	12	CER.T.	—	12	MET.	PT.	5	AT 1	—	15	11'-9"	PROVIDE DRAPERIES @ WINDOWS	A-207
	A-208	VACUUM FILTER AREA	ABR. Q.T.	24	9	Q.T.	24	9	BLK./CONC.	GWF	6	MET	PT	5	STRUC EXP.	PT	2	17'± 8'±		A-208
	A-209	MECHANICAL EQUIPMENT AREA	CONC.	D	—	Q.T.	—	9	BLK./CONC.	GWF	6	MET	PT	5	STRUC EXP.	PT	2	17'± 8'±	* INCLUDES CURB	A-209
"B" GRIT	A-137A	CORRIDOR	CONC.	AR. SEC.	8	Q.T.	24	9	BLK./CONC.	AR. GWF.	7	MET.	PT.	5	STRUC EXP.	—	—	16'±	INCLUDE PUMP AREA & 3' WALL AROUND — PROVIDE WORKBENCH. 24/A-7	A-137A
	B-1	SLUDGE DEGRITTING LOADING AREA	CONC.	"H"	—	Q.T.	—	9	BLK.	GWF.		MET.	PT.	5	STRUCT PLANK.	PT.	2	18'±	Q.T. FLOOR & BASE @ MEZZ. CEILING & COL'S UNDER MEZZ., PAINT GWF.	B-1
	B-2	GRIT CHAMBER	CONC.	D	—	—	—	—	—	—	—	—	—	—	STRUC PLANK.	—	—	14'±		B-2
"C"	C-1	ENTRANCE STRUCTURE / GALLERY 5	CONC.	"G"	—	—	—	—	CONC./BLK.	PT.	3	MET.	PT.	5	STRUCT PLANK.	PT	2	14'±		C-1
"D"	D-1	LIME BIN STORAGE	CONC.	"H"	—	Q.T.	24	9	BLK./CONC.	* GWF AR.GWF.	6	MET.	PT.	5	STRUCT PLANK.	PT	2	35'±	* N AND W WALLS - GWF E WALL - SEE SH. A-34. S. WALL - AR.GWF	D-1
	D-2	SLAKING PLATFORM	ABR. Q.T.	24	9	Q.T.	24	9	CONC.	AR. * GWF	7	MET.	PT.	5	CONC.	PT	2	11'±	* NE WALL TO END OF SUMP. SE WALL TO END OF PLATFORM.	D-2
	D-3	LIME FEED SUMP	ABR. Q.T.	24	9	Q.T.	24	9	CONC.	AR. * GWF	7	—	—	—	CONC.	PT	2	11'±	STAIRS: ABRASIVE SURF. Q.T. TREADS * PERIMETER, & ALL EXPOSED SURFACES.	D-3
	D-4	MEZZ.	GRTG.	—	—	ALUM.	*	—	BLK./CONC.	AR. GWF	7	ALUM.	*	—	STRUC PLANK.	PT	2	7'±	* SEE SPEC'S	D-4
	D-5	TOILET ROOM	CONC.	G	—	Q.T.	—	9	CONC./BLK.	PT.	3	MET.	PT.	5	CONC.	PT	2	8'±		D-5
"E"	E-1	CHLORINE ROOM	CONC.	"G"	—	Q.T.	—	9	BLK.	GWF	6	MET.	PT.	5	STRUC PLANK.	PT	2	19'±	SEAL ALL FLOOR AND WALL PENETRATIONS GAS TIGHT	E-1
	E-2	CHLORINE STORAGE	CONC.	"H"	—	Q.T.	—	9	BLK.	GWF	6	MET.	PT.	5	STRUC PLANK.	PT	2	19'±	SEAL ALL FLOOR AND WALL PENETRATIONS GAS TIGHT	E-2
"F"	F-1	OXYGEN GENERATION RM	CONC.	"G"	—	—	—	—	BLK./CONC.	INSUL. * PT	3	MET	PT	5	CONC.	INSUL II	—	18'±	* 2" SPRAY INSUL. ALL CEILING AND WALLS (6'-0" WAINSCOT) ABOVE FIN. FLR. TO CEILING.	F-1
	F-2	CONTROL ROOM	CONC.	"G"	—	—	—	—	BLK./CONC.	PT	3	MET	PT	5	CONC.	INSUL II	—	11'±	* 2" SPRAY-INSUL. □ CONC WALL TYPE V FIN	F-2
	F-3	ELECTRICAL ROOM	CONC.	"G"	—	—	—	—	BLK./CONC.	III	—	MET	PT	5	CONC.	INSUL II	—	11'±	* 2" SPRAY-INSUL.	F-3
	F-4	MECHANICAL ROOM	CONC.	"G"	—	—	—	—	BLK./CONC.	III	—	MET	PT	5	CONC.	III	—	12'±		F-4
	F-5	STAIRWAY (GALLERY #3)	CONC.	"C"	—	—	—	—	CONC.	III	—	MET	PT	5	CONC.	III	—	32'±		F-5
"L"		TUNNEL	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 1	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 2	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 3	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 4	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 5	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 6	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 7	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	
		GALLERY 8	CONC.	C	—	—	—	—	CONC	III	—	MET	PT	5	CONC.	INSUL II	23	VARIES	* 2" SPRAY INSUL.	

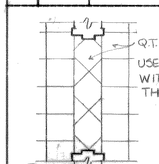


TYPICAL DETAIL OF SPRAY INSULATION TERMINATION AT DECK (OR WALL) OPENINGS

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD



15 / A-2 PLAN DETAIL: Q.T. LAYOUT USED AT ALL THRESHOLDS W/ Q.T. USED BOTH SIDES.

3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1½" = 1'0" 1 6 0 1

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

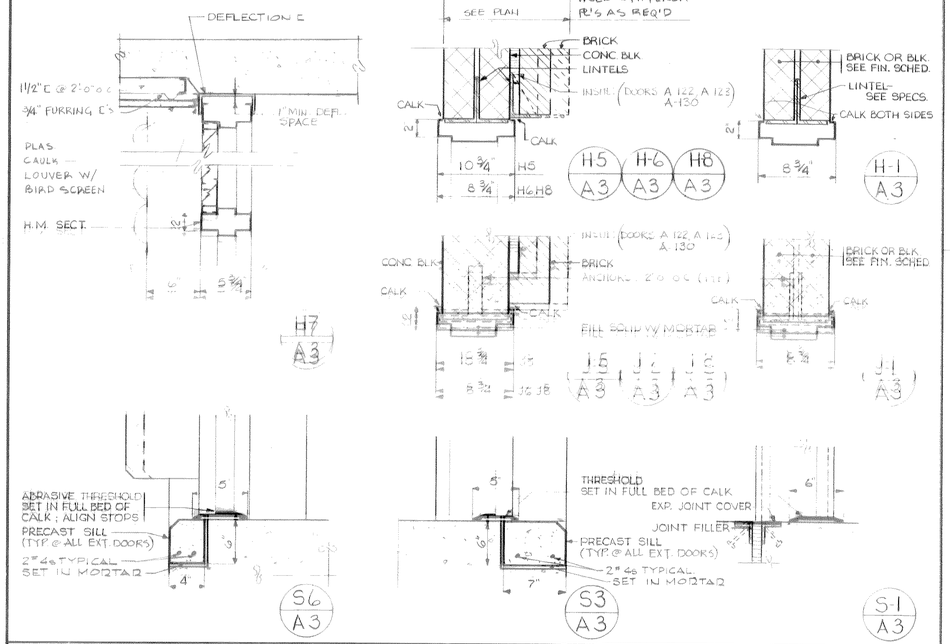
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9-8-83
2	APPROVED FOR CONSTRUCTION	VA	2/24/78	GSD	RAR	SGB 2/24/78
1	FOR APPROVALS	GSD, VA	3/30/76	GSD	RAR	SGB 3/31/76

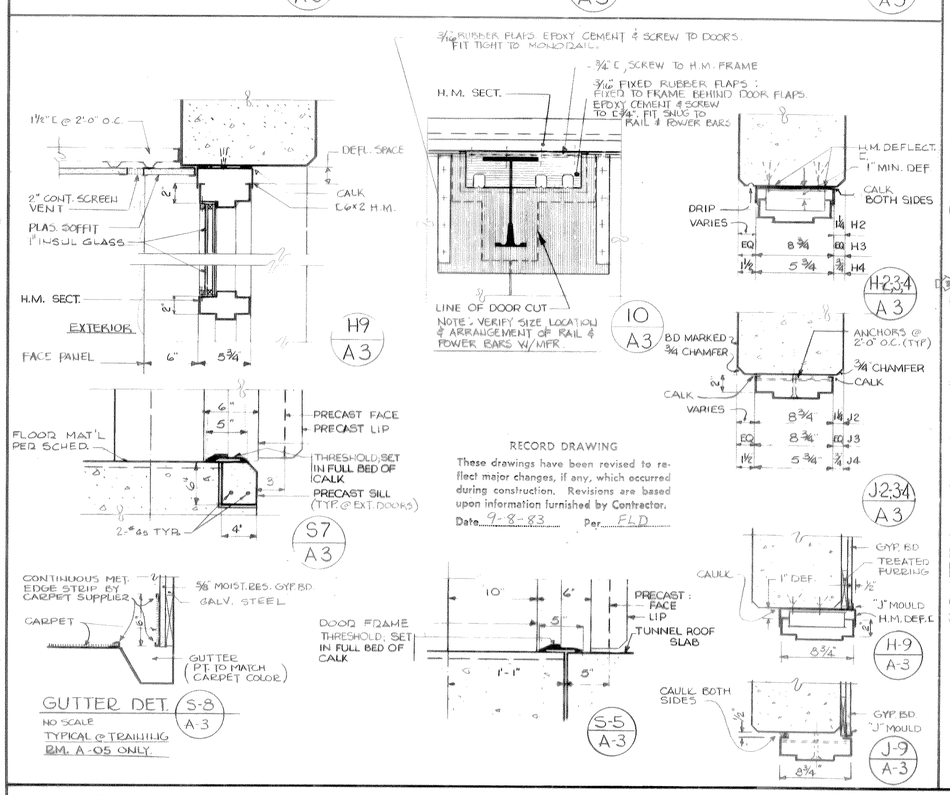
PROJECT SUPERVISOR: Richard A. Rust
APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING AND PROCESS STRUCTURE ROOM FINISH SCHEDULE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET A 2



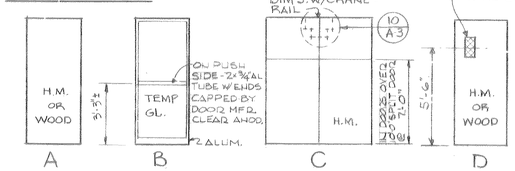


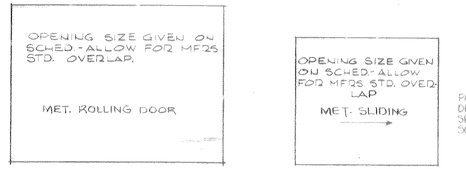
CONTROL BUILDING "A" — FIRST FLOOR — LOWER LEVEL

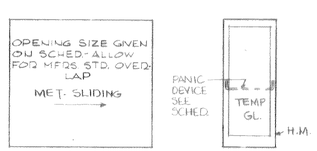
DOOR AND HARDWARE SCHEDULE

DOOR NO.	DOOR LOCATION FROM	TO	DOOR SIZE W.	H.	T.	MAT.	TYPE	FRAME MAT.	FRAME TYPE	THRESHOLD	BUTTS	LOCK KEY	KICK PLATE	HOLD'R	CLOSR	FLUSH BOLTS	PUSH-PULL	ASTRAGAL	WEATH STRIP	LABEL	REMARKS	DOOR SIGN	DOOR NO.
A-01	STAIR A-03	TUNNEL A-04	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H3 J3	T-2	B-3	L3 –	✓	–	✓	–	–	–	–	"B"		"STAIR"	A-01
A-02	TUNNEL A-04	TUNNEL	PAIR 2'-6"	6'-8"	1¾"	H.M.	D	H.M.	H1 J1	T-2	B-3	L3 –	✓	–	✓	✓	–	✓	–	"B"		"TUNNEL"	A-02
A-05	TUNNEL A-04	TRAINING A-05	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H9 J3	T-4	B-4	L4 4	✓	–	–	–	–	–	–	–		"TRAINING"	A-05
A-05A	CHEM FEED A-07	TRAINING A-05	PAIR 3'-0"	7'-2"	¾"	H.M.	A	H.M.	H3 J3	T-2	B-3	L3 –	✓	–	✓	✓	–	–	–	–			A-05A
A 101-103	NOT USED																						
A-104	EXTERIOR	VESTIBULE A-111	PAIR 3'-0"	8'-0"	1¾"	ALUM	B	ALUM	A/A1 J3	T-2	B-1	L8 1	–	✓	✓	✓	✓	–	✓	–			A-104
A-105	VESTIBULE A-111	LOBBY A 112	PAIR 3'-0"	8'-0"	1¾"	ALUM	B	ALUM	A/A1 J1	T-3	B-1	–	–	✓	✓	–	✓	–	✓	–			A-105
A-106	SWITCH GEAR A-116	TRANSFORMER I	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	T-3	B-2	L4 4	–	–	✓	–	–	–	✓	A			A-106
A-107	SWITCH GEAR A-116	TRANSFORMER III	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	T-3	B-2	L4 4	–	–	✓	–	–	–	✓	A			A-107
A-108	EXTERIOR	SWITCH GEAR A 116	PAIR 3'-0"	10'-0"	1¾"	H.M.	A	H.M.	H1 J1	T-3	B-2	L4 4	✓	✓	✓	✓	–	✓	–	–	CASED OPNG. 8'-5" x 8'-5"		A-108
A-109	LOBBY A 112	SWITCH GEAR A 116	3'-0"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-3	B-3	L3 4	–	WALL MTD. HOLDER	✓	–	–	–	–	A	SEE DET. 9 & 10 ON WD. DOOR SCHED. FOR MTG. DET.	ELECTRICAL EQUIPMENT	A-109
A-110	LOBBY A 112	CONFERENCE A 117	PAIR 3'-0"	7'-0"	1¾"	WD	A	H.M.	A/A1 J1	T-4	B-4	L6 3	–	–	–	✓	–	–	–	–	SEE DET. 9 & 10 ON WD. DOOR SCHED. FOR MTG. DET.	CONFERENCE ROOM	A-110
A-111	CORRIDOR A 121	OFFICE A 115	3'-0"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-4	B-4	L6 3	✓	–	–	–	–	–	–	–		OFFICE	A-111
A-112	VESTIBULE A 113	CORRIDOR A 121	3'-0"	7'-2"	1¾"	WD	D	H.M.	H1 J1		B-3	L3 –	✓	–	✓	–	–	–	–	B		STAIR	A-112
A-113	CORRIDOR A 121	OFFICE A 120	3'-0"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-4	B-3	L2 10	✓	–	–	–	–	–	–	–		OFFICE	A-113
A-114	EXTERIOR	VESTIBULE A-119	3'-11½"	8'-0"	1¾"	ALUM	B	ALUM	2 A/A1 J3	T-3 5	B-1	L1 1	–	✓	✓	–	–	–	✓	–			A-114
A-115	CORRIDOR A 121	MECHANICAL EQUIP. A 122	3'-4"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T 3	B-3	L4 3	✓	–	–	–	–	–	–	B		MECHANICAL EQUIPMENT	A-115
A-116	CORRIDOR A 121	MEN'S T.R. A-124	2'-6"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-4	B-3	–	✓	–	✓	–	✓	–	–	–	UNDERCUT 1"	"MEN"	A-116
A-117	CORRIDOR A 121	JAN. CLO. A-125	2'-6"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-4	B-4	L4 3	✓	–	–	–	–	–	–	–		JANITOR	A-117
A-118	CORRIDOR A-121	WOMEN'S T.R. A-126	2'-6"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-4	B-3	–	✓	–	✓	–	✓	–	–	–	UNDERCUT 1"	"WOMEN"	A-118
A-119	CORRIDOR A-121	HALL A-127	3'-0"	7'-2"	1¾"	WD	D	H.M.	H1 J1	T-3	B-3	L3 –	✓	–	✓	–	–	–	✓	–		EMPLOYEES ONLY	A-119
A-120	CORRIDOR A-121	STORAGE A-128	3'-0"	7'-2"	1¾"	WD	A	H.M.	H1 J1	T-4	B-4	L6 10	✓	–	–	–	–	–	–	–		STORAGE	A-120
A-121	HALL A-127	HALL A-110	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H1 J1	T-2 5-1	B-3	L2 1	✓	–	✓	–	–	–	✓	A			A-121
A-122	HALL A-130	SLUDGE LOADING AREA A-129	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H8 J8	T-1	B-2	L1 1	✓	✓	✓	–	–	–	✓	–			A-122
A-123	HALL A-130	CHEMICAL STORAGE A-131	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H8 J8	T-2	B-2	L2 3	✓	–	–	–	–	–	✓	–			A-123
A-124	SLUDGE LOADG. AREA A-129	PARTS EQM'T. STOR. A-132	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	–	B-4	L2 3	✓	–	–	–	–	–	–	–			A-124
A-125	SLUDGE LOADG. AREA A-129	GENERATOR RM. A-135	PAIR 3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H1 J1	T-2	B-3	L2 4	✓	–	–	✓	✓	–	–	B			A-125
A-126	EXTERIOR	SLUDGE LOADING AREA A-129	3'-8"	7'-0"	1¾"	ALUM	B	ALUM	2 A/A1 J3	T-3 5-7	B-1	L1 1	–	✓	✓	–	–	–	✓	–			A-126
A-127	SLUDGE LOADG. AREA A-129	GENERATOR RM. MEZZANINE	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H1 J1	T-2	B-3	L2 4	✓	–	✓	–	–	–	–	B			A-127
A-128	LOBBY A-112	CORRIDOR A-121	5'-4"	7'-8"				H.M.	A/S		CASED OPENING										CASED OPNG - NO STOPS, SIZE IS FRAME SIZE.		A-128
A-129	EXTERIOR	SCREENINGS RM. A 134	14'-0"	13'-6"	⅞"	MET.	E	ST	25 18 A5 A8	HARDWARE BY DOOR MFR - CYLINDER BY HDWE SUP.									✓	–	EXPLOSION PROOF ELEC., OPER. BY DOOR MFR.		A-129
A-130	HALL A-130	SCREENINGS RM. A 134	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H8 J8	T-1	B-2	L1 1	✓	–	✓	–	–	–	✓	–	SIGNS NO SMOKING	SCREENINGS ROOM	A-130
A-131	EXTERIOR	SLUDGE LOADING AREA A-129	14'-0"	14'-0"	⅞"	MET.	E	ST	25 18 A5 A8	HARDWARE BY DOOR MFR - CYLINDER BY HDWE SUP.									✓	–	ELEC. OPER BY DOOR MFR		A-131
A-132	EXTERIOR	SLUDGE LOADING AREA A-129	14'-0"	14'-0"	⅞"	MET.	E	ST	25 18 A5 A8	HARDWARE BY DOOR MFR - CYLINDER BY HDWE SUP.									✓	–	ELEC. OPER BY DOOR MFR		A-132
A-133	CORRIDOR A-121	CORRIDOR A-140	3'-8"	7'-2"	1¾"	WD.	D	H.M.	H1 J1	T3 5-1	B-3	L2 1	✓	–	✓	–	–	–	–	B	PAINT SHOPWING SIDE OF DOOR SAME AS H.M.	EMPLOYEES ONLY	A-133
A-134	CORRIDOR A 140	VESTIBULE A-138	3'-0"	7'-2"	1¾"	ALUM.	D	ALUM	H1 J1	–	B-3	L3 1	✓	✓	✓	–	✓	–	✓	–			A-134
A-135	EXTERIOR	VESTIBULE A-138	3'-7½"	8'-0"	1¾"	ALUM	B	ALUM	2 A/A1 A/A2	T-3	B-1	L1 1	–	✓	✓	–	–	–	✓	–			A-135
A-136	CORRIDOR A-140	LUNCH RM. A-139	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H1 J1	T-4	B-4	L3 –	✓	–	–	–	–	–	–	–		LUNCH ROOM	A-136
A-137	CORRIDOR A-140	INVENT. FILES & MAINT. A-141	3'-0"	7'-2"	1¾"	ALUM.	B	ALUM.	2 A/A2D A/A21	–	B-1	L8 5	✓	–	–	–	–	–	–	–			A-137
A-138	GARAGE & SHOP A-144	CORRIDOR A-140	3'-8"	7'-2"	1¾"	H.M.	D	H.M.	H2 J2	T-2	B-3	L3 1	✓	–	✓	–	–	–	–	B		CORRIDOR	A-138
A-139	GARAGE & SHOP A 144	STORAGE A-142	PAIR 2'-6"	7'-2"	1¾"	H.M.	A	H.M.	H2 J2	–	B-3	L6 3	✓	–	✓	✓	–	✓	–	C		STORAGE	A-139
A-140	GARAGE & SHOP A-144	ELEC. SHOP A-143	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H2 J2	–	B-3	L6 4	✓	–	✓	–	–	–	–	C		ELECTRICAL SHOP	A-140
A-141	EXTERIOR	GARAGE & SHOP AREA A-144	12'-0"	12'-0"	⅞"	MET.	E	ST	25 18 A5 A8	–	–	–	–	–	✓	–	–	–	✓	–	HARDWARE BY DOOR MFR. (ELEC. OPER.) CYL. BY HDWE. SUPPL.		A-141
A-142	EXTERIOR	GARAGE & SHOP AREA A-144	12'-0"	12'-0"	⅞"	MET.	E	ST	25 18 A5 A8	–	–	–	–	–	✓	–	–	–	✓	–	HARDWARE BY DOOR MFR (ELEC. OPER.) CYL. BY HDWE. SUPPL.		A-142
A-143	GARAGE & SHOP A-144	LOCKER RM. A-146	3'-0"	7'-2"	1¾"	H.M.	*A	H.M.	H2 J2	T-4	B-3	–	✓	–	–	✓	–	–	–	–	*LOUVER REQD 12"x12"	LOCKER ROOM	A-143
A-144	EXTERIOR	GARAGE & SHOP AREA A-144	3'-0"	7'-0"	1¾"	H.M.	A	H.M.	2 A/A32 SIM	T-1	B-2	L1 2	✓	✓	✓	–	–	–	✓	–			A-144
A-145	GARAGE & SHOP A 144	STORAGE A-155	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	–	B-4	L6 3	✓	–	–	–	–	–	–	–	UNDERCUT 1"	STORAGE	A-145
A-146	TOILET A-151	LOCKER RM. A-146	3'-0"	7'-2"	1¾"	H.M.	*A	H.M.	H1 J1	–	B-3	L8 2-2	ONE SIDE OF DOOR IS MK GROUP A-5 OTHER SIDE OF DOOR IS MK GROUP A-5							–	2 WAY LOCK KEY OPERATED BOTH SIDES DIFF. KEYS 8560 & 8124	LOCKER ROOM	A-146
A-147	GARAGE & WORK A-153	TOILET A-151	3'-0"	7'-2"	1¾"	H.M.	*A	H.M.	H1 J1	T-4	B-3	–	✓	–	–	–	–	–	–	–	*LOUVER REQD 12"x12"	MEN	A-147
A-148	GARAGE & WORK A-153	LUNCH RM. A-152	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H1 J1	T-4	B-3	L3 –	✓	–	–	–	–	–	–	–	UNDERCUT 1"	LUNCH ROOM	A-148
A-149	EXTERIOR	GARAGE & WORK AREA A 153	3'-0"	7'-0"	1¾"	H.M.	A	H.M.	2 A/A32 SIM	T-1	B-2	L1 2	✓	✓	✓	–	–	–	✓	–	MK GROUP A-5		A-149
A-150	EXTERIOR	GARAGE & WORK AREA A 153	12'-0"	12'-0"	⅞"	MET.	E	ST	25 18 A5 A8	–	–	–	–	–	–	–	–	–	✓	–	HARDWARE BY DR MFR (ELEC OPER) CYLINDER BY HDWE SUPPLIER		A-150
A-151	EXTERIOR	GARAGE & WORK AREA A 153	12'-0"	12'-0"	⅞"	MET.	E	ST	8 16 A5 A8	–	–	–	–	–	–	–	–	–	✓	–	HARDWARE BY DR. MFR (ELEC OPER) CYLINDER BY HDWE SUPPLIER		A-151
A-152	EXTERIOR	GARAGE & WORK AREA A 153	3'-0"	7'-0"	1¾"	H.M.	A	H.M.	H1M A/A32	T-1	B-2	L1 2	✓	✓	✓	–	–	–	✓	–	MK GROUP A-5		A-152
A-153	GARAGE & WORK A-153	STOR. A-154	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	–	B-4	L6 3	–	–	–	–	–	–	–	–	MK GROUP A-5	STORAGE	A-153
A-154	EXTERIOR	HALL A-110 (SLUDGE LOADG. AREA)	3'-8"	7'-0"	1¾"	ALUM	B	ALUM	2 A/A1 A/A21	T-3 5-7	B-1	L1 1	–	✓	✓	–	–	–	✓	–			A-154
A-155	SLUDGE LOADING AREA A-129	POLYMER STOR. RM. A-136	PAIR 3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	–	B-4	L2 3	✓	–	–	✓	–	✓	–	–			A-155
A-156	SLUDGE LOADING AREA	MECH. EQM'T. RM. A-122.	6'-0"	7'-4"	1¾"	H.M.	F.	ST	15 14 A5 A21	ALL REQ'D HARDWARE BY DOOR MFR.										B	DOOR NORMALLY CLOSED FIRE DETECTOR - AUTO CLOSER		A-156
A-157	STOR. A-128	ELEC. CLO A-157	2'-8"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	T-2	B-3	L4 4	–	–	✓	–	–	–	✓	B		ELECTRICAL EQUIPMENT	A-157

DOOR TYPES:







1½" = 1'-0"

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		SFM		KLS	9-8-83
2	APPROVED FOR CONSTRUCTION GD	2/24/78	GSD	BAR	SGB	2/24/78
1	FOR APPROVALS W.G.D.	3/30/78	GSD	BAR	SGB	3/31/78

PROJECT SUPERVISOR: APPROVED S.G. Brisbin

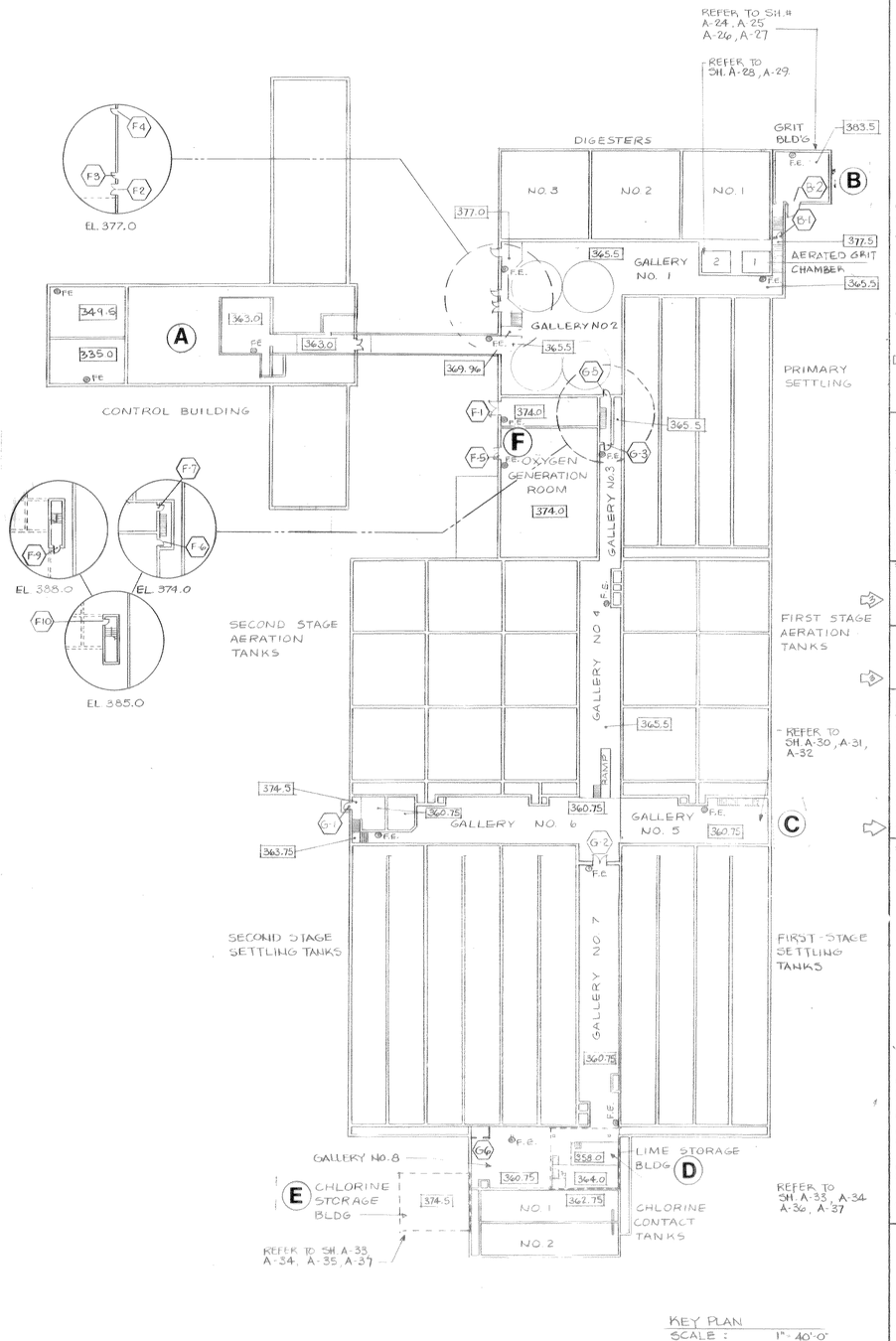
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING AND PROCESS STRUCTURE
DOOR AND HARDWARE SCHEDULE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-3

DOOR AND HARDWARE SCHEDULE

	DOOR NO	DOOR LOCATION FROM	TO	DOOR SIZE W.	H.	T.	MAT	TYPE	FRAME MAT	FRAME TYPE	THRES HOLD	BUTTS	LOCK KEY	KICK PLATE	HOLDR	CLOSR	FLUSH BOLTS	PANIC DEVICE	ASTRAGAL	WEATH STRIP	LABEL	REMARKS	DOOR SIGN	DOOR NO
	A-158	HALL A-127	CLOSET A-158	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	HI J1	T-4	B-4	L4 3	—	—	—	—	—	—	—	—		CLOSET	A-158
	A-159	CONF A-117	CABINET A-159	PAIR 2'-6"	7'-0"	1¾"	WD	A	WD.	*	—	B-4	L6 —	—	—	—	✓	—	—	—	—	* SEE DET. 26/A-8		A-159
	A-160	CONF A-117	CABINET A-160	PAIR 2'-6"	7'-0"	1¾"	WD	A	WD.	*	—	B-4	L6 —	—	—	—	✓	—	—	—	—	* SEE DET. 26/A-8 (SIMILAR)		A-160
GENERAL BLDG SECOND FLOOR "A"	A-201	STAIR A-156	VEST. A-201	3'-8"	7'-2"	1¾"	WD	D	H.M.	HI J1	—	B-3	L3 —	✓	—	✓	—	—	—	B		MOTOR CONTROL CENTER	A-201
	A-202	VEST. A-201	MOTOR CONTROL CTR. A-203	3'-0"	7'-2"	1¾"	H.M.	D	H.M	HI J1	T-4	B-3	L2 6	✓	—	✓	—	—	—	B			A-202
	A-203	MOTOR CONTROL A-203	CATWALK	6'-8"	8'-0"	1¾"	MET.	F	ST	15A-32 14A-32	ALL DOOR HARDWARE BY DOOR MFR.									A	DOOR NORMALLY CLOSED FIRE DETECTOR- AUTO CLOSED		A-203
	A-204	VEST. A-201	TRAINING A-204	3'-8"	7'-2"	1¾"	WD	D	H.M.	HI J1	T-4	B-4	L4 4	✓	—	—	—	—	—	—			TRAINING	A-204
	A-205	VEST. A-201	LABORATORY A-207	3'-0"	7'-2"	1¾"	H.M.	G	H.M.	HI J1	—	B-3	L2 8	—	—	✓	—	—	—	B		LABORATORY	A-205
	A-206	LABORATORY A-207	BACTERIOLOGY A-205	3'-0"	7'-2"	1¾"	H.M.	G	H.M.	HI J1	—	B-4	L2 8	—	—	—	—	—	—	—		BACTERIOLOGY LABORATORY	A-206
	A-207	LABORATORY A-207	OFFICE A-206	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	HI J1	—	B-4	L2 7	✓	—	—	—	—	—	—		OFFICE	A-207
	A-208	BACTERIOLOGY A-205	CATWALK	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	HI J1	T-4	B-3	L2 8	—	—	✓	—	—	—	✓	A	KEY ON CATWALK SIDE		A-208
	A-210	VEST. A-201	CONTROL RM. A-202	5'-0"	7'-2"	—	—	—	H.M	HI J1	—	—	—	—	—	—	—	—	—	—	—	CASED OPENING		A-210
	A-211	WINDOW UNIT							H.M.															
GRIT BLDG "B"	B-1	TUNNEL	GRIT	3'-0"	7'-2"	1¾"	H.M.	D	H.M.	HI J1	T-2	B-3	L3 —	✓	—	✓	—	—	—	✓	B		TUNNEL	B-1
	B-2	EXTERIOR	GRIT	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	SEE ELEV	T-1 /53	B-2	L1 1	✓	✓	✓	—	—	—	✓	—	* SEE ELEV. SH. A-25		B-2
	B-3	EXTERIOR	GRIT	3'-0"	7'10"	1¾"	H.M.	A	H.M.	SEE ELEV	T-1 /55	B-2	L1 1	✓	✓	✓	—	—	—	✓	—	* SEE ELEV. SH. A-25		B-3
	B-4	EXTERIOR	GRIT	11'-8	12'-0"	⅞"	MET.	E	ST	3/A-37 A/A-37	ALL HARDWARE BY DOOR MFR-CYLINDER BY HOWE SUP.										EXPLOSION PROOF ELEC. OPERATOR		B-4
	B-5	EXTERIOR	GRIT	11'-8	12'-0"	⅞"	MET.	E	ST	3/A-37 A/A-37	ALL HARDWARE BY DOOR MFR-CYLINDER BY HOWE SUP.										EXPLOSION PROOF ELEC. OPERATOR		B-5
	B-6	WINDOW UNIT							H.M.															
ENTRY STRUCT "C"	C-1	EXTERIOR	ENT. STRUCT. @ GALLERY 5	PAIR 3'-0"	11'-6"	1¾"	H.M.	C	H.M.	SEE ELEV	T-1	B-2	L1 1	✓	✓	✓	✓	—	✓	✓	—	CHAINS, BOLTS & ASTRAGAL ON UPPER DOOR SEE 1/A-31		C-1
	C-2	WINDOW UNIT							H.M.															
	C-3	WINDOW UNIT							H.M.															
	C-4	WINDOW UNIT							H.M.															
	C-5	WINDOW UNIT							H.M.															
LIME STOR "D"	D-1	EXTERIOR	LIME BIN STOR. D-1	PAIR 3'-10"	14'-6"	1¾"	H.M.	C	H.M	SEE ELEV	T-1	B-2	L1 1	—	✓	✓	✓	—	✓	✓	—	CHAINS, BOLTS & ASTRAGAL ON UPPER DOOR SEE 8/A-37		D-1
	D-2	EXTERIOR	LIME BIN STOR.	3'-0"	7'-0"	1¾"	H.M.	G	H.M.	SEE ELEV	T-1	B-2	L7 1	✓	✓	✓	—	✓	—	✓	—	* SEE ELEV. SH. A-36		D-2
	D-3	WINDOW UNIT							H.M.															
	D-4	WINDOW UNIT							H.M.															
CHLORINE BLDG "E"	E-1	EXTERIOR	CHLORINE ROOM	3'-0"	8'-0"	1¾"	H.M.	G	H.M.	SEE ELEV	T-1	B-2	L7 3	✓	✓	✓	—	✓	—	✓	—	* SEE ELEV. SH. A-37	CHLORINE ROOM	E-1
	E-2	EXTERIOR	CHLORINE STOR.	3'-0"	8'-0"	1¾"	H.M.	G	H.M.	SEE ELEV	T-1	B-2	L7 3	✓	✓	✓	—	✓	—	✓	—	* SEE ELEV. SH. A-37	CHLORINE STORAGE	E-2
	E-3	EXTERIOR	CHLORINE STOR	PAIR 4'-0"	16'-6"	1¾"	H.M.	C	H.M.	SEE ELEV	T-1	B-2	L1 3	✓	✓	—	✓	—	✓	✓	—	CHAINS, BOLTS & ASTRAGAL ON UPPER DOOR. SEE 4/A-37		E-3
	E-4	EXTERIOR	CHLORINE STOR.	UNIT 4'-0"	16'-6"	1¾"	H.M.	C	H.M.	SEE ELEV	T-1	B-2	L1 3	✓	✓	—	✓	—	✓	✓	—	CHAINS, BOLTS & ASTRAGAL ON UPPER DOOR SEE 4/A-37		E-4
	E-5	EXTERIOR	CHLORINE STOR.	3'-0"	7'-8"	1¾"	H.M.	G	H.M.	SEE ELEV	T-1	B-2	L7 3	✓	✓	✓	—	✓	—	✓	—	* SEE ELEV. SH. A-37	CHLORINE STORAGE	E-5
	E-6	EXTERIOR	CHLORINE ROOM	3'-0"	7'-8"	1¾"	H.M.	D	H.M.	SEE ELEV	T-1	B-2	L7 3	✓	✓	✓	—	✓	—	✓	—	* SEE ELEV. SH. A-35	CHLORINE ROOM	E-6
	E-7	WINDOW UNIT							H.M.															
FLOOR "F"	F-1	EXTERIOR	ELECT. ROOM	PAIR 4'-0"	7'-0"	1¾"	H.M.	A	H.M.	H2* J2	T-1	B-2	L1 3	✓	✓	✓	—	—	—	✓	—	* LOUVER - SEE SH. H-11 + PROVIDE REMOVABLE MULLION	ELECTRICAL ROOM	F-1
	F-2	EXTERIOR	SLUDGE THICKENER	PAIR 4'-0"	8'-5"	1¾"	H.M.	C	H.M.	H2 J2	T-1	B-2	L1 1	✓	✓	—	✓	—	✓	✓	—			F-2
	F-3	EXTERIOR	SLUDGE THICKENER	3'-0"	7'-0"	1¾"	H.M.	A	H.M.	H2* J2	T-1	B-2	L1 1	✓	✓	✓	—	—	—	✓	—	* TRANSOM: INSUL. GL. F-3		F-3
	F-4	EXTERIOR	SLUDGE THICKENER	3'-0"	7'-0"	1¾"	H.M.	A	H.M.	H2* J2	T-1	B-2	L1 1	✓	✓	✓	—	—	—	✓	—	* TRANSOM: INSUL. GL. F-3		F-4
	F-5	EXTERIOR	OXYGEN GENERATION	PAIR 5'-0"	16'-0"	1¾"	H.M.	C	H.M.	H3 J3	T-1	B-2	L1 4	✓	✓	—	✓	—	✓	✓	—		OXYGEN GENERATION	F-5
OXYGEN GENERATION	F-6	STAIR	OXYGEN GENERATION	3'-0"	7'-0"	1¾"	H.M.	D	H.M.	H3 J3	T-2	B-3	L3 —	✓	—	✓	—	—	—	—	B		STAIR	F-6
	F-7	STAIR	ELECT. RM.	3'-0"	7'-0"	1¾"	H.M.	D	H.M.	H3 J3	T-2	B-3	L3 —	✓	—	✓	—	—	—	—	B		STAIR	F-7
	F-9	EXTERIOR	STAIR	3'-0"	7'-0"	1¾"	H.M.	G	H.M.	H4 J4	T-1	B-2	L1 1	—	✓	✓	—	—	—	✓	—			F-9
	F-10	STAIR	MEZZ (OXYGEN GENERATION)	3'-0"	7'-0"	1¾"	H.M.	D	H.M.	H3 J3	T-2	B-3	L3 —	✓	—	✓	—	—	—	✓	B		STAIR	F-10
GALLERIES	G-1	EXTERIOR	GALLERY #6	3'-0"	7'-0"	1¾"	H.M.	A	H.M.	H3 J3	T-1	B-2	L1 1	✓	✓	✓	—	—	—	✓	—			G-1
	G-2	GALLERY #6	GALLERY #7	PAIR 3'-0"	7'-2"	1¾"	H.M.	D	H.M.	H1 J1	T-2	B-3	L3 —	✓	—	✓	—	—	—	✓	B	REMOVABLE MULLION	GALLERY NO.7	G-2
	G-3	GALLERY #3	STAIR	3'-0"	7'-0"	1¾"	H.M.	D	H.M.	H3 J3	T-2	B-3	L3 —	✓	—	✓	—	—	—	—	B		STAIR	G-3
	G-4	NOT USED																						G-4
	G-5	GALLERY #2	STAIR	3'-0"	7'-0"	1¾"	H.M.	D	H.M.	H3 J3	T-2	B-3	L3 —	✓	—	✓	—	—	—	✓	B		STAIR	G-5
	G-6	GALLERY #8	TOILET ROOM D-5	3'-0"	7'-2"	1¾"	H.M.	A	H.M.	H1 J1	—	B-3	—	✓	—	✓	—	—	—	—	—	1" UNDERCUT, PUSH-PULL	MEN	G-6



KEY PLAN
SCALE : 1" = 40'-0"

NOTE: ⊕F.E. = FIRE EXTINGUISHER LOCATIONS.

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

1" = 40' 40 0 40 80

Licensed Professional Engineer University of the State of New York
A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
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ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD A.E.F.			SPM		JLS	9.8.83
2	APPROVED FOR CONSTRUCTION	GD	2/24/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS	VA GD	3/30/76	GSD	RAR	SGB	3/31/76

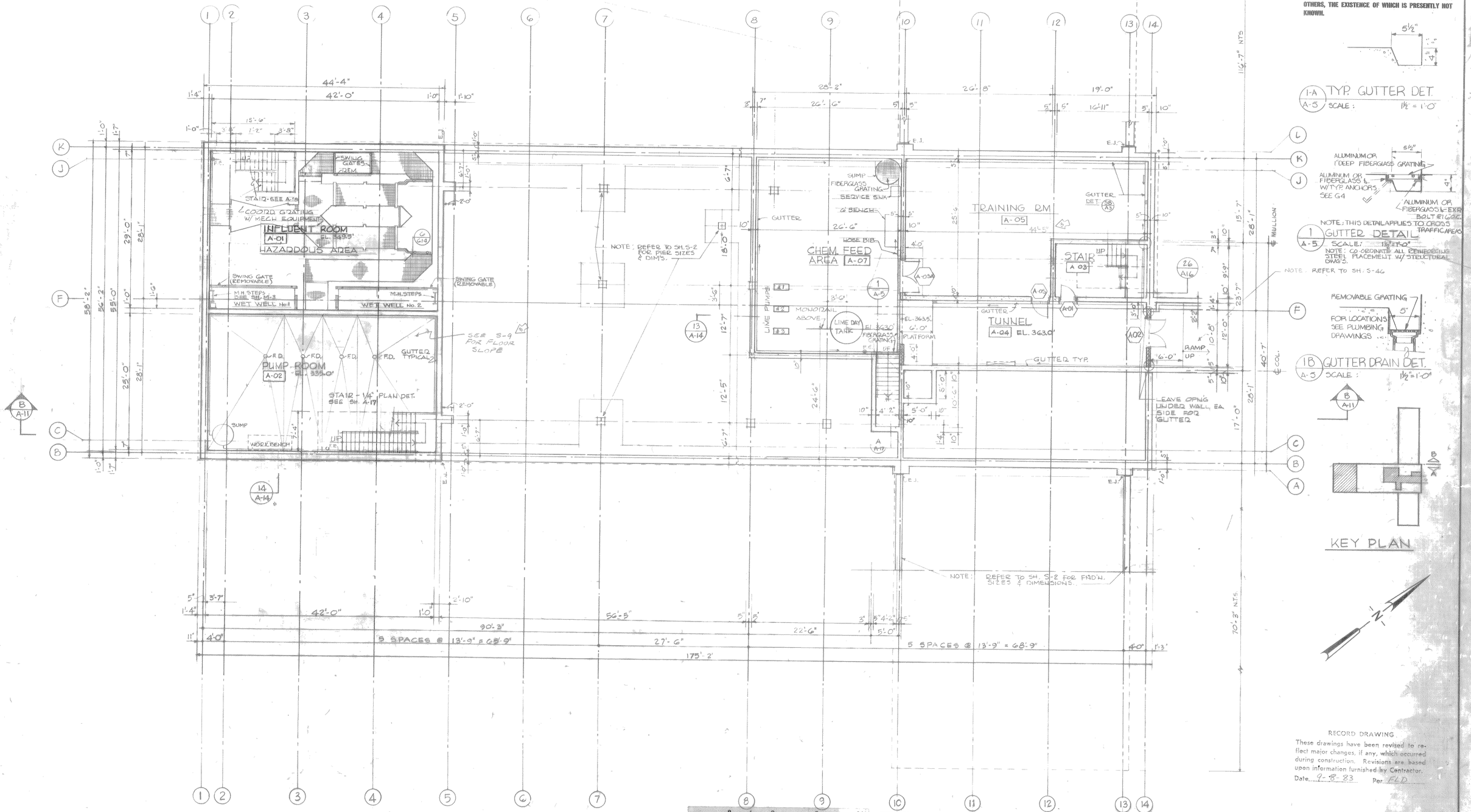
PROJECT SUPERVISOR Richard A. Rust
APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING AND PROCESS STRUCTURE DOOR AND HARDWARE SCHEDULE

STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A 4

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



1-A / A-5 TYP. GUTTER DET.
SCALE: 1½" = 1'-0"

1 / A-5 GUTTER DETAIL
SCALE: 1½"=1'-0"
NOTE: THIS DETAIL APPLIES TO CROSS TRAFFIC AREAS.
NOTE: CO-ORDINATE ALL REINFORCING STEEL PLACEMENT W/ STRUCTURAL DWGS.

1B / A-5 GUTTER DRAIN DET.
SCALE: 1½"=1'-0"

KEY PLAN

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

BASEMENT PLAN
SCALE 1/8" = 1'-0"

1/8" = 1'-0" 8 4 0 8 16
1½" = 1'-0" 1 6 0 1

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A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

3	RECORD AS BUILT	SBM			L.S.	7.8.87
2	APPROVED FOR CONSTRUCTION NSF, VA	3/24/78	GSD	PAR	SGB	3/24/78
1	FOR ATTENTION PAR	3/30/76	GSD	PAR	SGB	4/23/76
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: Richard L. Rice APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BASEMENT PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-5

NOTE:
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CURBED FLOOR OPENING REFER TO SH. H-2 FOR DUCT OPG. SIZE

SCREENINGS RM. A-134 (HAZARDOUS AREA)

SLUDGE LOADING AREA A-129

GENERATOR RM. A-135

PARTS EQUIP. STOR. A-132

CHEM. STOR. A-131

HALL A-130

POLYMER STOR. RM. A-136

FERRIC CHLORIDE CONTAINMT. A-137

MECH. EQUIP. A-122

REF. A-123

OFFICE A-120

MEN'S A-124

WOMEN'S A-126

JAN. A-125

CORR. A-137A

VEST. A-119

OFFICE A-118

LIME COND. A-133

STOR. A-128

HALL A-110

HALL A-127

VEST. A-111

LOBBY A-112

CONF. A-117

TRANSF. I A-113

TRANSF. II A-114

TRANSF. III A-115

SWITCH GEAR A-116

MEZZ. A-135

CONC. WALK

PLANTING BED

GRANITE CURB

CONC. PAD

CONC. FLOOR

CURB BAR

TRENCH

FIBERGLASS PAILING

GUARD POSTS

SEE A7

SEE SH. A-17

SEE SH. A-23

SEE SH. A-16

REFER TO SH. A-17 FOR STAIR DET'S

SEE SH. M-5

SEE SH. A-2 FOR EXP. JT DET.

REMOVABLE HANDRAIL COORDINATE W/EQUIPMT MFR

CONC. CURB W/FIBERGLASS PAILING

CONC. PADS (3 REQ'D) CO ORDINATE SIZE & LOC. W/EQMT. MFR.

ATTACH FUSIBLE LINK TO LADDER

EXT WALL PANEL DIM.

TOP CURB & SIDEWALK = 373.58

TOP OF 8"x12" R = 396.17

VACUUM FILTER AREA A-205

REMOVABLE GRATING SECT.

EL. 391.0'

EL. 388.5'

EL. 374.0'

373.58

GROUT

5/8" ∅ A.B. EACH SIDE

GENERAL NOTES

1. CONTROL BLDG. - REFER TO SH S-1 THRU S-15 FOR STRUCTURAL DETAILS.
2. G.C. NOTE - ON LOW WING CONSTRUCTION AND ALL WALL-BEARING CONDITIONS: CO-ORDINATE CONSTRUCTION WITH PRE-CAST EXPOSED AGGREGATE PANEL MANUFACTURER.
   A. CO ORDINATE MASONRY BLOCK CONSTRUCTION TO PERMIT ACCESS TO PANEL ANCHOR ATTACHMENTS.
   B. CO-ORDINATE PLACEMENT OF INSULATION.
3. FURNITURE: NOT-IN-CONTRACT (N.I.C.)
4. ⊕ F.E. = FIRE EXTINGUISHER LOCATIONS

LANDSCAPING KEY: (SEE SH. G-5 - PLANT LIST)

14 A = TAXUS CUSPIDATA - JAPANESE YEW

16 B = TAXUS CUSPIDATA CAPITATA - JAPANESE YEW

22 = JUNIPERUS CHINENSIS SARGENTI - SARGENT JUNIPER

SECTION A

KEY PLAN

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FIRST FLOOR PLAN (MATCH "A")
SCALE 1/8" = 1'-0"

1 VESTIBULE CURB DET. A-6
SCALE: 1½" = 1'-0"

QT CURB — ALSO CARRY QT BASE DOWN FLUSH AT REAR WALL SIMILAR TO 4/A7

FILL W/ PLANTING SOIL - USE MINIMUM 6" CRUSHED STONE AT DRAIN (SEE DET SH P-2)

WATERPROOF MEMBRANE (BOX LINER)

TERMINATE LINER W/ 'J' MOULD. (PERIMETER)

1/8" = 1'-0" 8 4 0 8 16

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ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		SEM			KLS	9-8-83
2	APPROVED FOR CONSTRUCTION GD	2/24/78	GSD	RAP		SGB	2/24/78
1	FOR APPROVALS RAP	2/30/78	GSD	RAP		SGB	2/24/78

PROJECT SUPERVISOR: Richard A. Hurst APPROVED: S. G. Bruckner

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
FIRST FLOOR PLAN - MATCH "A"

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A 6

NOTE:
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SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

FIRST FLOOR PLAN (MATCH "B")

SCALE 1/8" = 1'-0"

4 SECT. DET A-7 SCALE: 3/4" = 1'-0"

3 PLAN DET. A-7 SCALE: 3/4" = 1'-0"

2 JAMB DETAIL A-7 SCALE 3/4"

1 SECTION DETAIL CHALKBOARD A-7 NO SCALE

SECTION A

SECTION B

KEY PLAN

4 A PLANTINGS SEC. A

8 B

6 C

TYPICAL TRENCH DRAIN

1/8" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

A.G. WHELER 31573
S.G. BRISBIN 31610 W.O. LYNCH 37958
F.S. KEITH 39959
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		SFM		LLS	9-8-83
2	APPROVED FOR CONSTRUCTION VA	2/24/78	GSD	RAB	SLB	2/24/78
1	FOR APPROVAL PAP	8/30/76	GSD	RAB	SLB	10/1/76

PROJECT SUPERVISOR S.G. Brisbin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SECOND FLOOR PLAN AND FIRST FLOOR PLAN MATCH "B"

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-7

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3/4" = 1'0" 1 0 1 2 3

1/16" = 1'0" 16 8 0 16 32

NOTE: FINISH ENDS OF CONC. BLK. WALLS (TYP.)

EXP JT TYPE MULLION SILL & HEAD.

INSUL SPAN GL. PANEL

1" EXP. JT.

CALK

GL.

CLOSURE ∠ BY WINDOW SUPPLIER (TYP.)

COMPRESSIBLE JOINT FILLER (TYP.)

NOTE: FINISH EXPOSED CONC. SURFACES TYPE V

NOTE: REFER TO WINDOW DETAILS SH. A-21

C.T. FINISH (TYPICAL FOR COLS) @ LAB. A-207, A 206 SEE SHT A-22

MAS. OPENG.

LOUVER WINDOW OPENG.

ALUM. CLOSURE ∠ (INSULATE BETWEEN DISSIMILAR MATLS)

M.E. 10×8.4 w/STRAP ANCHORS @16" O.C. VERT. FILL SOLID w/CONC. TYPICAL BOTH SIDES OF OPENING

CAVITY WALL INSUL.

RAKE JT. ½" DEEP & CALK.

ANCHORS @ 1'-4" O.C. (TYP.)

RAKE JOINT & CAULK (TYP.)

COMPRESSIBLE JOINT FILLER

FINISH END OF BLK

DOOR OPG. FRAME OPG.

REFER TO DET 14/A27 FOR GUARD POSTS

STRAP ANCHORS @ 160 O.C. VERT.

MAS. OPEN'G.

4" DOOR OPENING

CALK

MC 13X31.8

FILL WITH MORTAR

CALK EA. SIDE

DOOR TRACK BY DOOR MFR.

FINISH EXPOSED CONC. SURFACES TYPE V

CONCEALED ANCHORS FOR TRIM STRIP BY WINDOW MFR. ∠ 1½×1½×⅛

CONT ALUM ℞ 1⅛ × 2½" EA. SIDE. (DECURVE TUBE SIDE ONLY)

ALUM TUBE w/ FOAMED IN PLACE INSULATION

℞ 1½ × 2½" EA SIDE BY WINDOW MFR.

∠ 1½×1½×⅛ BY WINDOW MFR.

GYP. BD COVER & FURRING AT COL'S: TYPICAL IN CONF-A117, OFFICE A-118, A-120

MET. CORNER BEAD (TYP.)

EXP. JT. & CALK

ANCHORS @ 1'-4" (TYP.)

"J" MOULD (TYP.)

ALUM. CLOSURE ∠ (TYP.) BY WINDOW MFR.

INSUL

CALK

GYP. BD

1" EXP. JT. FILLED & CALK.

LINE OF FOUND. WALL BELOW

LINE OF SILL ABOVE

PARGE CONC. BLK. & PAINT BLACK PRIOR TO INSTALL. OF ORN. BLK. (TYPICAL)

LINE OF SILL ABOVE

LINE OF FOUNDATION WALL BELOW

PRECAST CONC. SILL

FINISH EDGE

PARGE/PAINT BLK. BLACK PRIOR TO ORN. BLK. INSTALLATION

ORN. BLK

ALUM ∠ CLOSURE BY WINDOW MFR.

TREATED WOOD BLKG

LINE OF FOUNDATION WALL BELOW

LINE OF SILL ABOVE

RAKE JT. ½" DEEP & CALK. TYPICAL

ROUND BELOW

WELD ℄ @ 4'-0" O.C. VERT (TYPICAL)

JOINT FILLED & CAULK

MASONRY FILL (SOLID)

INSUL

NOTE: PROVIDE ANCHORAGE @ 16" O.C. VERTICALLY & HORIZONTALLY. (TYPICAL)

ALUM ∠ CLOSURE BY WINDOW MFR (TYP.)

BRICK

PARGE & PAINT BLK. BLACK. (TYP. @ ORN. BLK. LOCS.)

PLAN DETAILS

SCALE: 3/4" = 1'-0"

ANCHORS @ 1'-4" O.C. (TYP.)

1" EXP. JT.

RAKE JT. ½" DEEP & CALK (TYP.)

JOINT FILLER & CALK

E.J.

JOINT FILLER & CALK

1" EDGE BAND: ALL SHELVES

⅜" × 1½" STOPS

1" × 2½" CASING

1×4 FURRING @ 16" O.C.

(SHELVES) ¾" PLYWD.

BRICK, PARGE & PT. BLACK

CONC. BLK.

CALK

ANCHOR INTO CONC. BLK.

5/4" × 5" JAMES W/ KERF BACK

2×4 FRAME

¾" PLYWD.

RETURN W.D. TRIM TO H.M.

TYP. FOR CAB. A-59 ALSO

ALL WOOD SHALL BE OAK OR OAK VENEER PLYWOOD.

NOTE: FORM CRICKET AROUND HATCH (TYP.)

DOUBLE TOP & CAP

.032" ALUM LINER

1" RIGID INSUL.

∠ 3×3×⅜

2X4

ALUM. ∠ 1½"×1½"×⅛"

¾" PLYWD.

℞ CAST IN DOUBLE TEE OR STRUCT. PLANK

1" ℗ RUNGS, SOLID ALUM. SPACED @ 1'-0" O.C.

∠ 3×2.07 ALUM. STRINGERS

3×⅜ BRACKETS SPACED 8'-0" MAX. O.C.

F.F.EL.

SECTION DET.

SCALE: 3/4" = 1'-0"

.032" ALUM LINER

ALUM. ∠ 1½"×1½"×⅛"

4 3×3×⅜ @ PERIMETER

SECTION DET. (STORAGE RM. A-142)

PLAN (LADDER)

SCALE 3/4" = 1'-0"

NOTE: ALL ALUM. LADDERS SHALL BE ANODIZED FINISH.

ROOF HATCH DETAILS

2" GAP

NOTES:

1) SEE SHEET M-4 FOR PITCH POCKETS TO BE PROVIDED BY CONTR. № 1 ALSO COORD. REQMTS FOR ROOF CURBS FANS, ETC. FOR WORK BY CONTR № 1.

2) SLOPE CONC FILL TO DRAINS:
LIGHTWEIGHT FILL THICKNESS @ PERIMETER = 5"
LIGHTWEIGHT FILL THICKNESS @ ROOF DRAINS = 1"

RECORD DRAWING

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Date 9-8-83 Per F.L.D.

NOTE: REFER TO STRUCT SH S-4 FOR PRE-CAST TEE SIZES.

115'-4" BLDG. TOTAL DIM.

24'-0"

SOME FACE ACROSS DECK & AT WALL EAST - WEST

2×4 CONC DECK 2×4 CONC DECK

1" EXP. JOINT

TYPE (A)

2½" 2×12 2×4 VARIES AT DRAINS CONTROL BUILDING DECK

1" EXP. JOINT

TYPE (B)

43'-7"

FAN # 9 SKYLIGHT "B" R.D. FAN # 8 VENT EXP. JT. FAN # 7 SKYLIGHTS "B" R.D. ROOF HATCH VENT FAN # 5

E.J.

NOTE: FORM CRICKET @ ALL ROOF HATCHES AND SKYLIGHTS AS REQ'D. (TYPICAL) REFER TO DET (5/A-39) FOR SKYLIGHT DET. (SIMILAR)

127'-10"

175'-9" BLDG. TOTAL DIM.

8'-0" TT

1'-0" 5'-3" 1'-9"

43'-7" OPEN OPEN ROOF HATCH

69'-0"

ROOF PLAN

SCALE: 1/16" = 1'-0"

N

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					
	AEF		SBM		K.S	9.8.83
2	APPROVED FOR CONSTRUCTION					
	NSF, VA	2/24/78	GSD	RAR	S.G.B	2/24/78
1	FOR APPROVALS					
	RAP GD	2/30/76	GSD	RAR	S.G.B	2/31/76

PROJECT SUPERVISOR: APPROVED

S.G. Brisbin

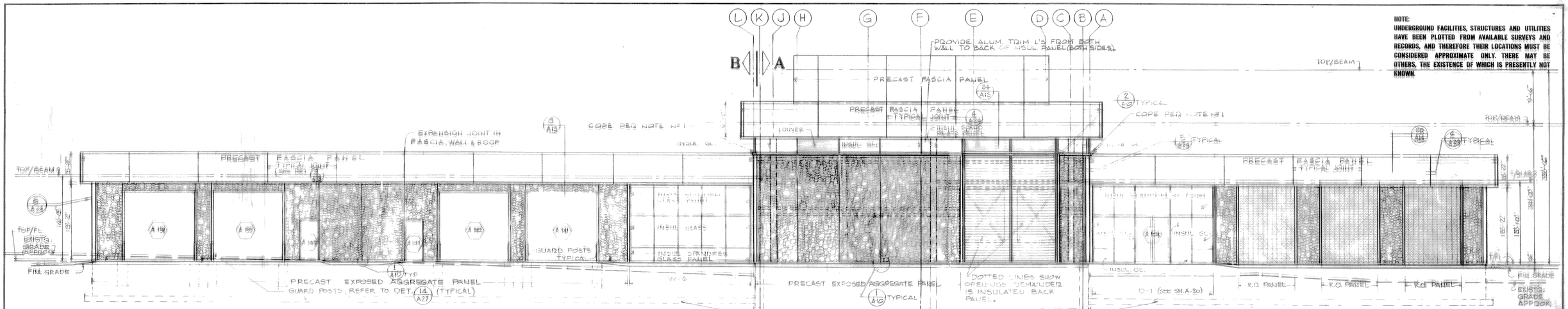
A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

CONTROL BUILDING
ROOF PLAN AND PLAN DETAILS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-8



SOUTHWEST ELEVATION
SCALE 1/8" = 1'-0"

NOTE:
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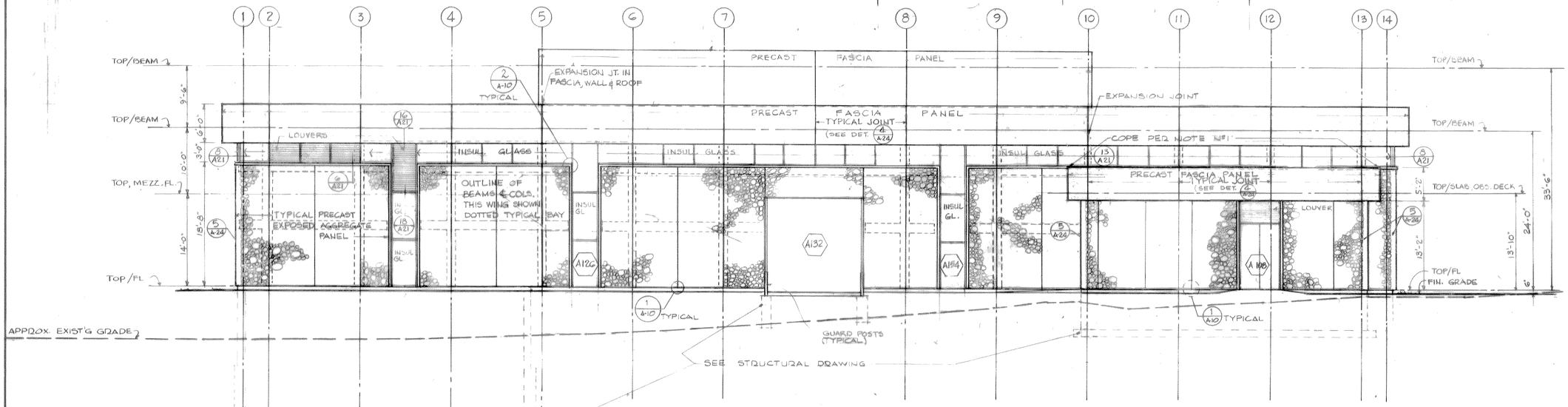
NOTES:
1) COPE CORNER OF FASCIA PANEL FOR INTERSECTION WITH SILL PROJECTION OF WALL PANEL.
2) INSERTS & PLATES IN POURED CONCRETE FOR PRECAST OR PRESTRESSED CONCRETE SHALL BE FURNISHED BY THOSE MANUFACTURERS TO G.C. FOR INSTALLATION.
3) CONTRACTOR SHALL VERIFY APPROX EXIST'G. GRADE WITH ELEVATIONS AND SITE PLAN.
4) PRECAST AGGREGATE PANEL SUPPLIER NOTE: CO-ORDINATE PLACEMENT OF ALL ELECTRICAL FIXTURES & OUTLETS IN PRECAST W/ ELECTRICAL DRAWINGS.



SOUTHEAST ELEVATION
SCALE 1/8" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per F.L.D.

1/8" - 1'0" 8 4 0 8 16

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				WLJ	9.8.83
2	APPROVED FOR CONSTRUCTION				SGB	3/24/78
2	NSFGD	3/24/78	GSD	PAP		
1	FOR APPROVALS				SGB	3/31/78
1	PAP	2/20/78	GSD	RAR		

PROJECT SUPERVISOR Richard A. Rice APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BUILDING ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-9

NOTE:
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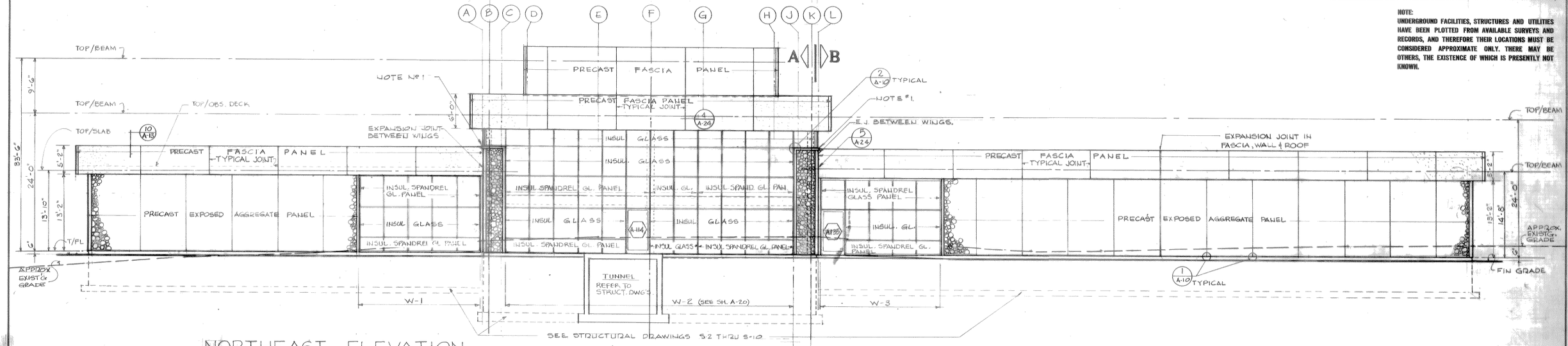
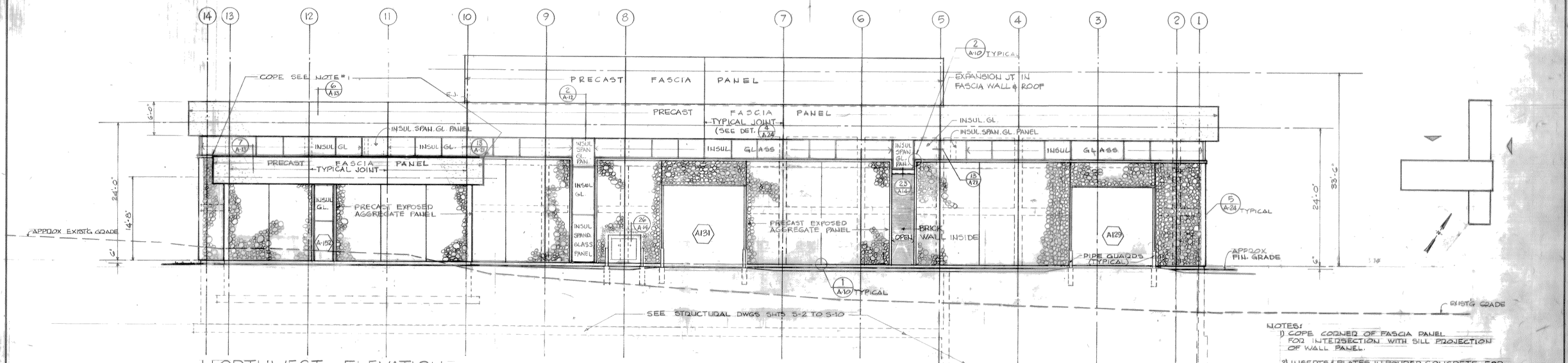
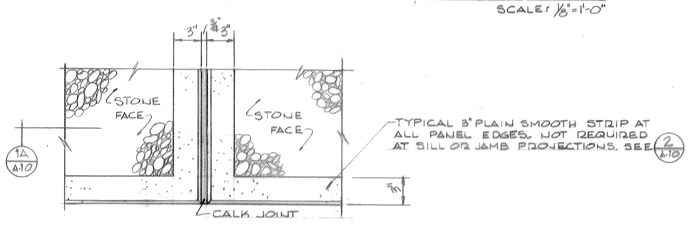


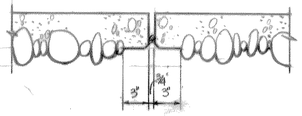
NORTHEAST ELEVATION
SCALE 1/8" = 1'-0"



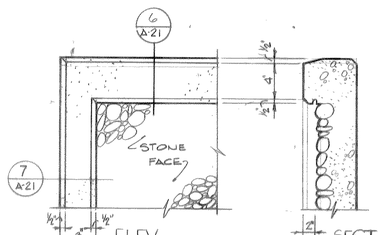
NORTHWEST ELEVATION
SCALE: 1/8"=1'-0"



1 / 1A-10 PARTIAL ELEVATION
SCALE: 1½"=1'-0"



1A / A-10 PLAN DETAIL
SCALE: 1½"=1'-0"



2 / A-10 PRECAST DETAIL
SCALE: 1½"=1'-0"

1/8" = 1'0" 8 4 0 8 16

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 38959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				W.S.	7.8.83
2	APPROVED FOR CONSTRUCTION	GD, NSF, VA	2/24/78	GSD	S.G.B.	2/24/78
1	FOR APPROVALS	PAR	3/30/76	GSD	PAR.	S.G.B. 3/31/76

PROJECT SUPERVISOR: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BUILDING ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-10

RECORD DRAWING
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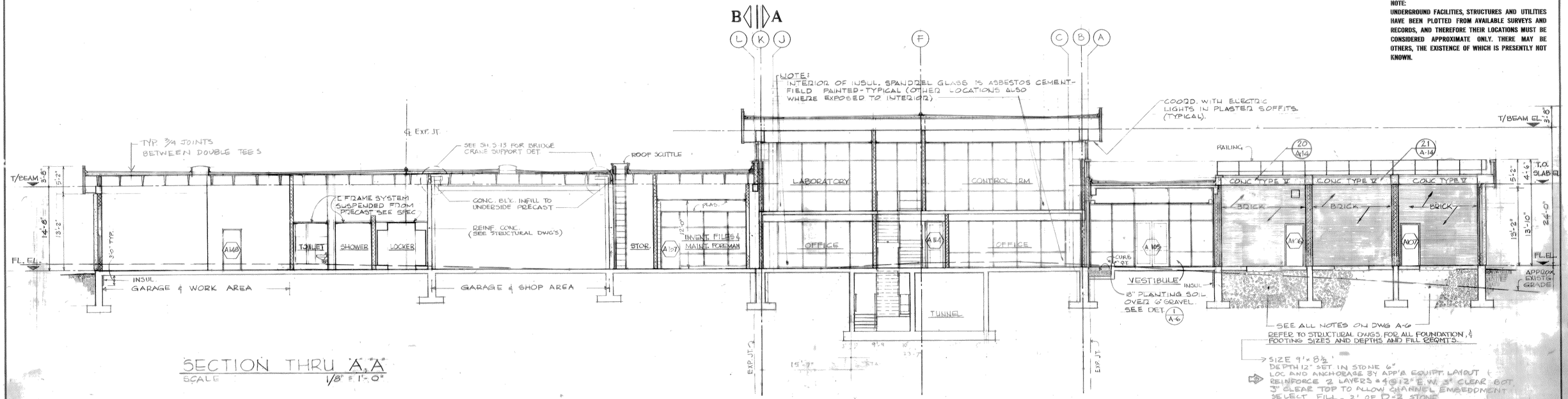
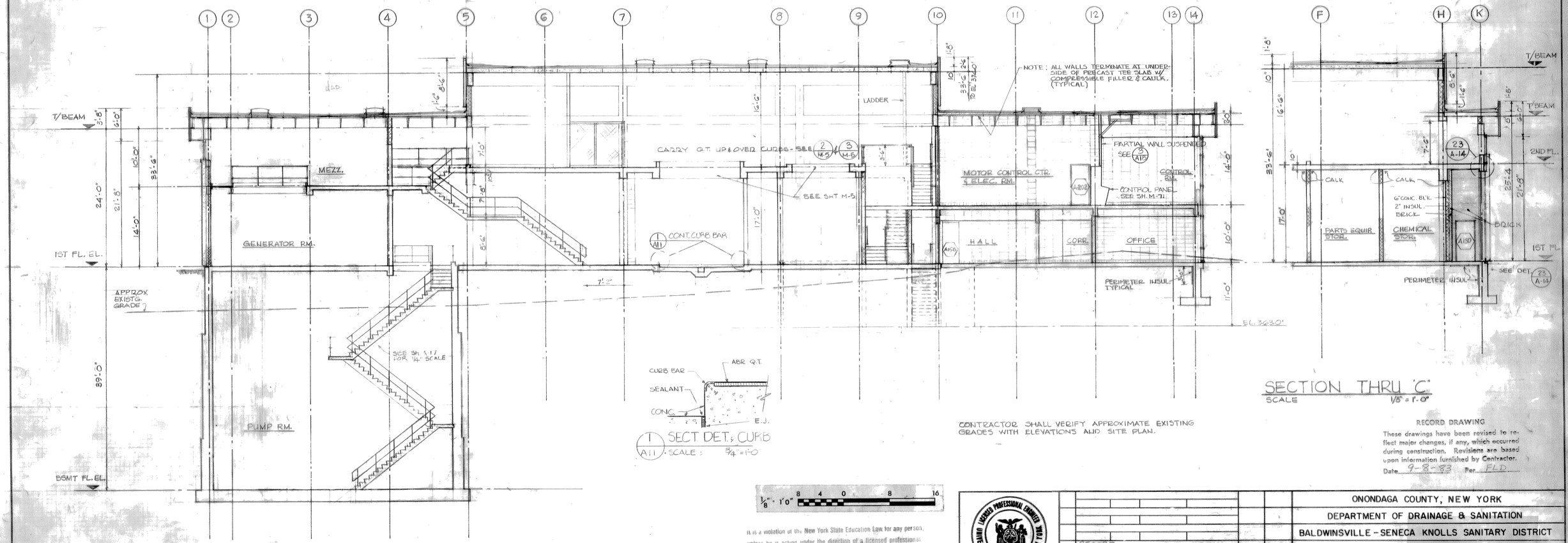
Date 9-8-83 Per F.I.D.

NOTES:
1) COPE CORNER OF FASCIA PANEL FOR INTERSECTION WITH SILL PROJECTION OF WALL PANEL.
2) INSERTS & PLATES IN POURED CONCRETE FOR PRECAST OR PRESTRESSED CONCRETE SHALL BE FURNISHED BY THOSE MANUFACTURES TO G.C. FOR INSTALLATION.
3) PRECAST COORD. W/ CONTR #2 FOR ANY ELEC. ITEMS CAST IN FASCIA OR WALL PANELS. PROVIDE SMOOTH BLANK AREA OF SPACE(S) REQ'D.
4) CONTRACTOR SHALL VERIFY APPROXIMATE EXIST'G GRADES WITH ELEVATIONS & SITE PLAN.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION THRU "A,A"
SCALE 1/8" = 1'-0"



SECTION THRU "B,B"
SCALE 1/8" = 1'-0"

T/A11 SECT. DET. of CURB
SCALE: 3/4" = 1'-0"

SECTION THRU "C"
SCALE 1/8" = 1'-0"

CONTRACTOR SHALL VERIFY APPROXIMATE EXISTING GRADES WITH ELEVATIONS AND SITE PLAN.

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

1/8" = 1'0" 8 4 0 8 16

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3 RECORD	AEF		SEM		LS	9.2.83
2 APPROVED FOR CONSTRUCTION	VAGSON	2/24/78	GSD	RAR	SGB	4/24/78
1 FOR APPROVALS	PAR	3/30/76	GSD	RAR	SGB	3/31/76

PROJECT SUPERVISOR R.A. Rasset APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BUILDING SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A.11

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

1 SECTION A-6 SCALE 3/4"=1'-0"

2 SECTION A-6 SCALE 3/4"=1'-0"

3 SECTION A-6 SCALE 3/4"=1'-0"

4 SECTION A-6 SCALE 3/4"=1'-0"

5 SECTION A-6 SCALE 3/4"=1'-0"

RECORD DRAWING

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Date 4-8-83 Per FLD

3/4" = 1'0"

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A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9-8-83
2	AEF	SFM			SGB	2/24/78
1	APPROVED FOR CONSTRUCTION					
	VA NSF	2/24/78	GSD	BAR	SGB	2/24/78
	FOR APPROVALS					
	PAP GD	8/30/78	GSD	BAR	SGB	8/31/78

PROJECT SUPERVISOR Richard A. Rust APPROVED S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
WALL SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-12

It is a violation of the New York State education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter any item on this drawing in any way. If an item is altered, the altering engineer or land surveyor must affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

NOTES: (1) CENTER BEARING PAD ON BEAM. (TYP)
(2) REFER TO STRUCT. DWG'S. FOR BEAM/PLANK SIZES.

NOTE: INSERTS & PLATES IN CAST IN PLACE CONC. FOR PRECAST OR PRESTRESSED CONC. CONNECTORS SHALL BE FURNISHED BY THOSE MANUFACTURES TO G.C. FOR INSTALLATION.

NOTE: ALIGN CONTROL JOINTS IN PLAS. SOFFIT W/ FASCIA VERTICAL JOINTS (TYPICAL)

NOTE: REFER TO SH. S-13 FOR STRUCT. & REINF. DET'S

NOTE: SEE STRUCT. DWGS FOR BEAM & SLAB DIM'S.

NOTE: ON LOW-WING, ALIGN PLAS. SOFFIT JOINTS W/ PRE-CAST EXP. AGGR. PANEL VERT. JOINTS. (TYP).

NOTE: REFER TO STRUCT. DRAWINGS FOR SLAB AND FOUNDATION SIZES. (TYP)

NOTE: SEE STRUCT. SH. S-5 & S-13 FOR BEAM SIZE & LOC.

NOTE: REFER TO STRUCT. DRAWINGS FOR SLAB AND FOUNDATION SIZES

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

A.G. WHELER 31573
S.G. BRISBIN 31610
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		SBM		SCS	9.8.83
2	APPROVED FOR CONSTRUCTION NSF	2/24/78	GSD	RAR	SCB	2/24/78
1	FOR APPROVALS RAR	3/30/78	G.S.D.	RAR	SCB	3/31/78

PROJECT SUPERVISOR S.G. Brisbin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING WALL SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.
JOB NO. 577 CONTRACT NO. 1 SHEET A-13

NOTE:
INSERTS IN POURED CONC. FOR PRECAST OR PRESTRESSED CONC SHALL BE FURNISHED BY THOSE MFRS TO G.C. FOR INSTALLATION.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

22 A-6 SECTION SCALE 3/4"=1'-0"

21 A-6 SECTION SCALE 3/4"=1'-0"

20 A-6 SECTION SCALE 3/4"=1'-0"

19 A-6 SECTION SCALE 3/4"=1'-0"

18 A-6 SECTION SCALE 3/4"=1'-0"

17 A-6 SECTION SCALE 3/4"=1'-0"

10 A-14 PLAN DETAIL: LADDER SCALE: 3/4"=1'-0"
NOTE: ALL ALUM LADDERS SHALL BE ANODIZED FINISH.

12 A-7 SECTION SCALE 3/4"=1'-0"

13 A-5 SECTION SCALE 3/4"=1'-0"

14 A-5 SECTION SCALE 3/4"=1'-0"

15P A-8 SECTION SCALE 3/4"=1'-0"

16P A-8 SECTION SCALE 3/4"=1'-0"

23 A-6 SECTION SCALE 3/4"=1'-0"

24 A-7 WORKBENCH DET. SECT. SCALE: 3/4"=1'-0"

26 A-10 SECTION DETAIL SCALE: 3/4"=1'-0"

25P A-8 SECTION SCALE 3/4"=1'-0"

RECORD DRAWING
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Date 9-8-83 Per F.L.D.

3/4" = 1'0" 1 0 1 2 3

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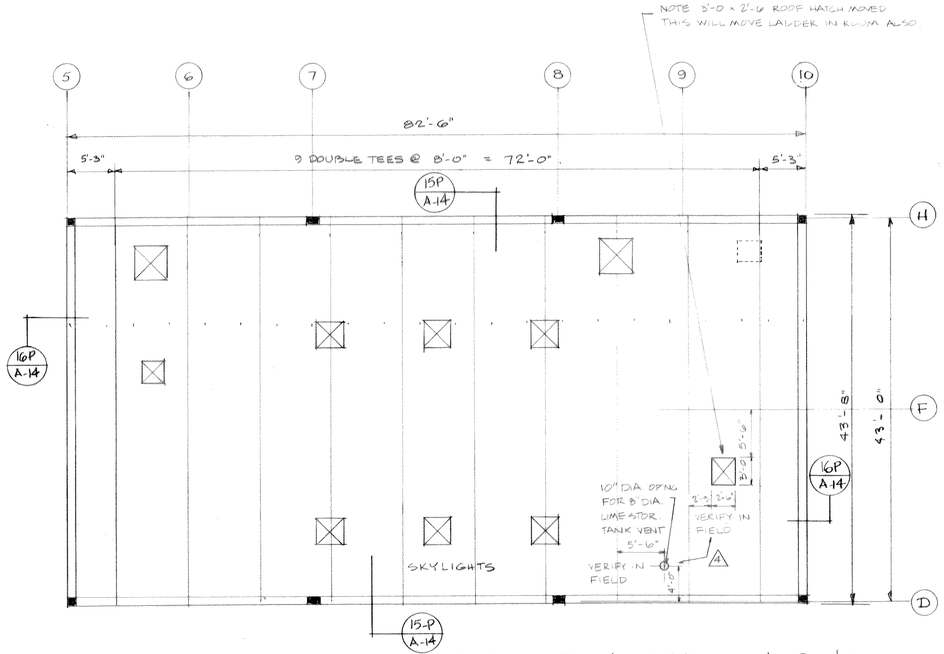
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF	8PM			LS	8.8.83
2	APPROVED FOR CONSTRUCTION GLNSE, VA	12/24/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS PAR GD	8/30/76	GSD	RAR	SGB	3/3/76

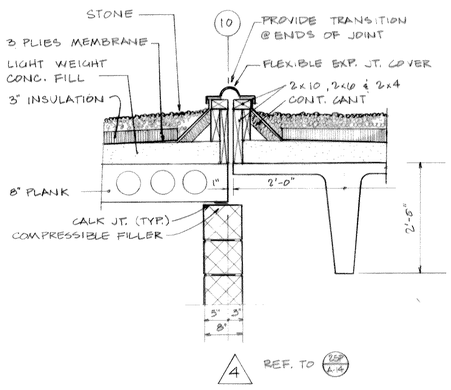
PROJECT SUPERVISOR R. L. Pratt APPROVED S.G. Brisbin

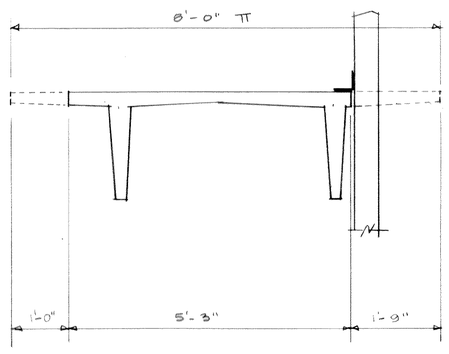
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
WALL SECTIONS AND DETAILS
STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.
JOB NO. 577 CONTRACT NO. 1 SHEET A-14



REVISED HIGH ROOF FRAMING PLAN-CONTRO_ BUILDING

SCALE 1/8" = 1'-0"





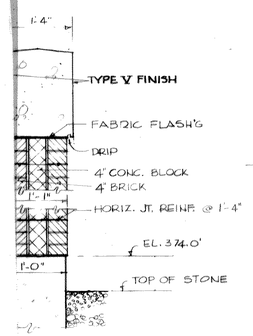
NOTE

A. SAME NOTES ON DRAWING S-1 APPLY.
B. COORDINATE ROOF OPENING LOCATIONS & SIZES WITH APPROPRIATE CONTRACTS.
C. COORDINATE ANY REVISIONS TO CRANE RAIL LOCATIONS WITH ENGINEER.

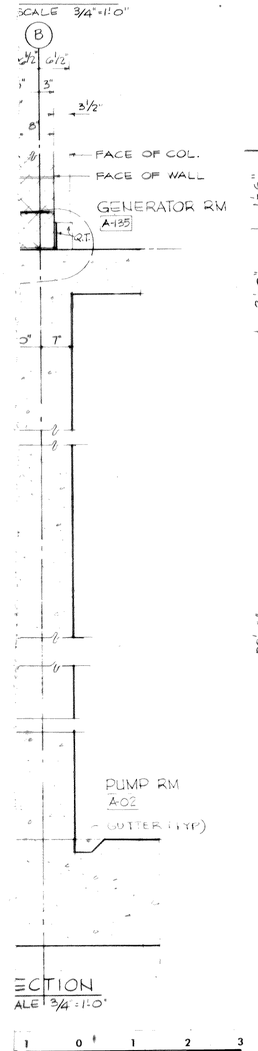
RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

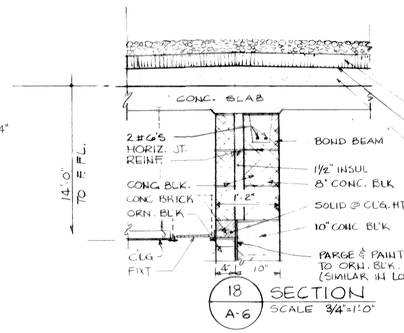


SECTION
SCALE 3/4"=1'-0"

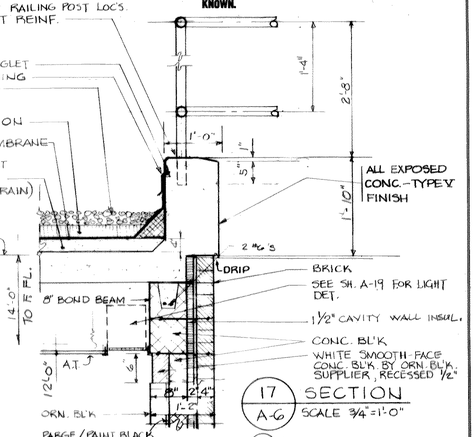


ECTION
ALE 3/4"=1'-0"

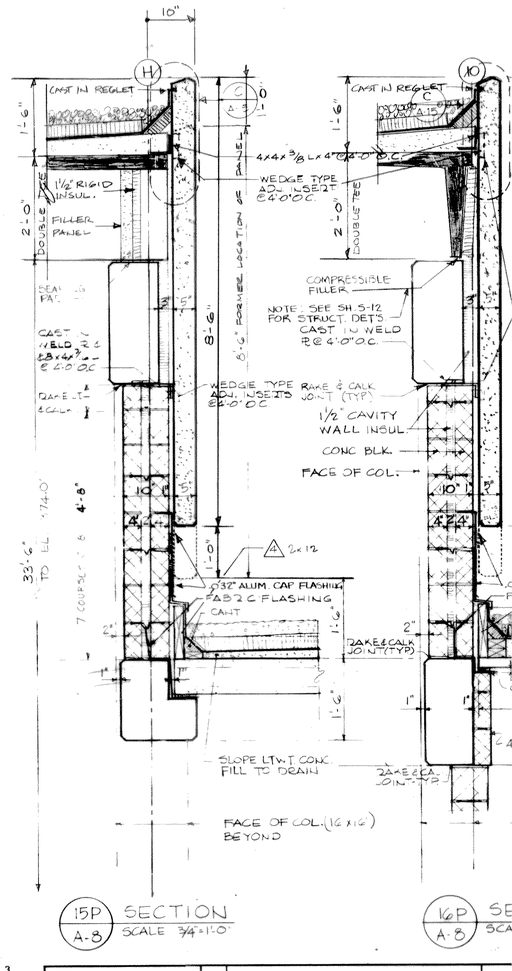
NOTE:
INSERTS IN POURED CONC. OR PRECAST OR PRESTRESSED CONC SHALL BE FURNISHED BY THOSE MFRS TO G.C. FOR INSTALLATION.



18 SECTION
A-6 SCALE 3/4"=1'-0"

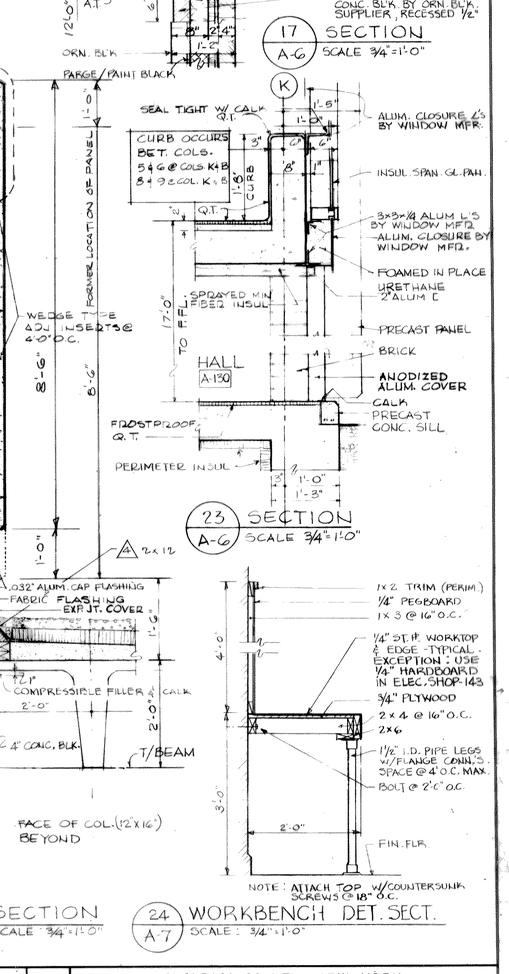


17 SECTION
A-6 SCALE 3/4"=1'-0"



15P SECTION
A-8 SCALE 3/4"=1'-0"

16P SECTION
A-8 SCALE 3/4"=1'-0"



23 SECTION
A-6 SCALE 3/4"=1'-0"

24 WORKBENCH DET. SECT.
A-7 SCALE: 3/4"=1'-0"

NOTE:
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1 0 1 2 3

the New York State Education Law for any person, under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item bearing the stamp of a licensed professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered" followed by his signature and the date of such alteration, and a specific description of the alteration.

UNIVERSITY OF THE STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	RECORD					
4	REVISIONS & ADD'L DETAILS SPM				WLS	9-8-83
3	HIGH ROOF REVISED RAR 5/31/79	RAR		RAR		
2	APPROVED FOR CONSTRUCTION GD 5/5/78	12/29/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS RAR GO	3/30/78	GSD	RAR	SGB	3/31/76

PROJECT SUPERVISOR: Frank C. Pratt
APPROVED: S.G. Brisbin

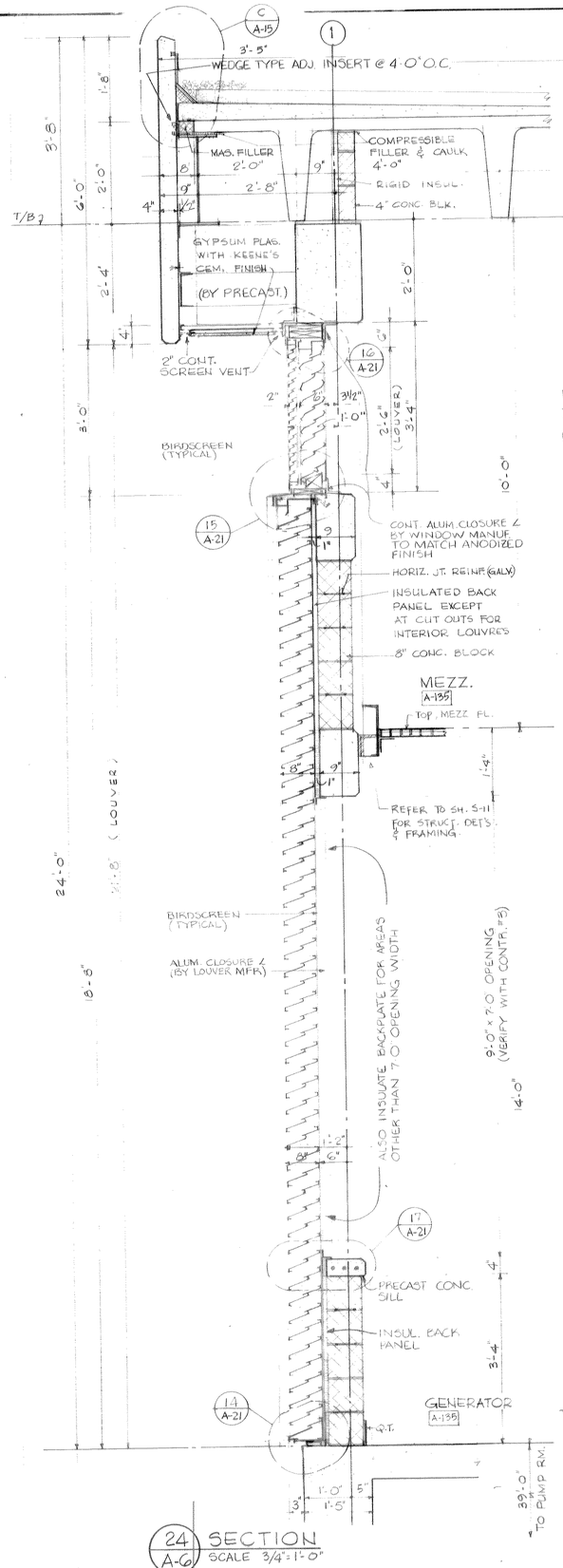
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
WALL SECTIONS AND DETAILS

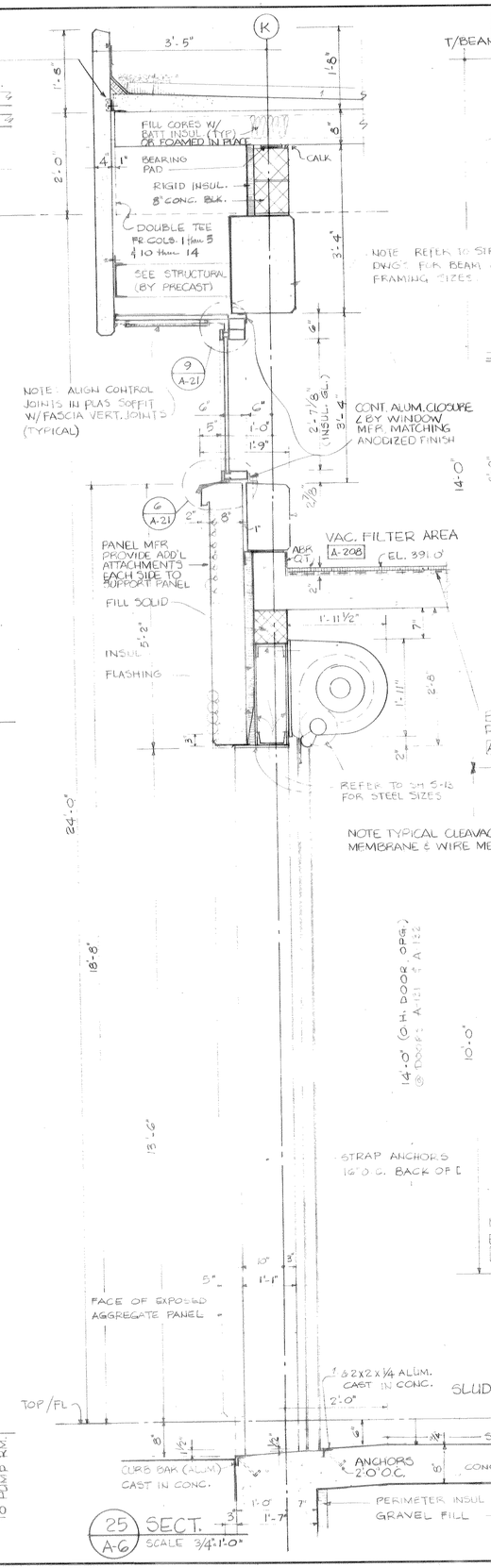
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

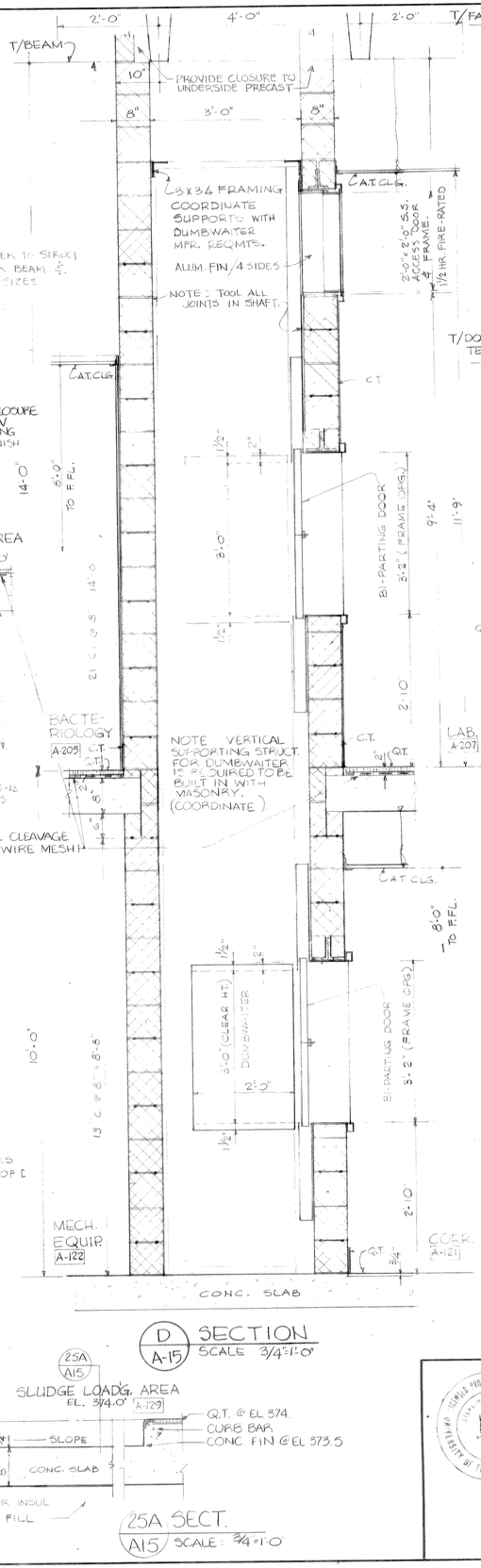
JOB NO. 577 | CONTRACT NO. 1 | SHEET A-14 A

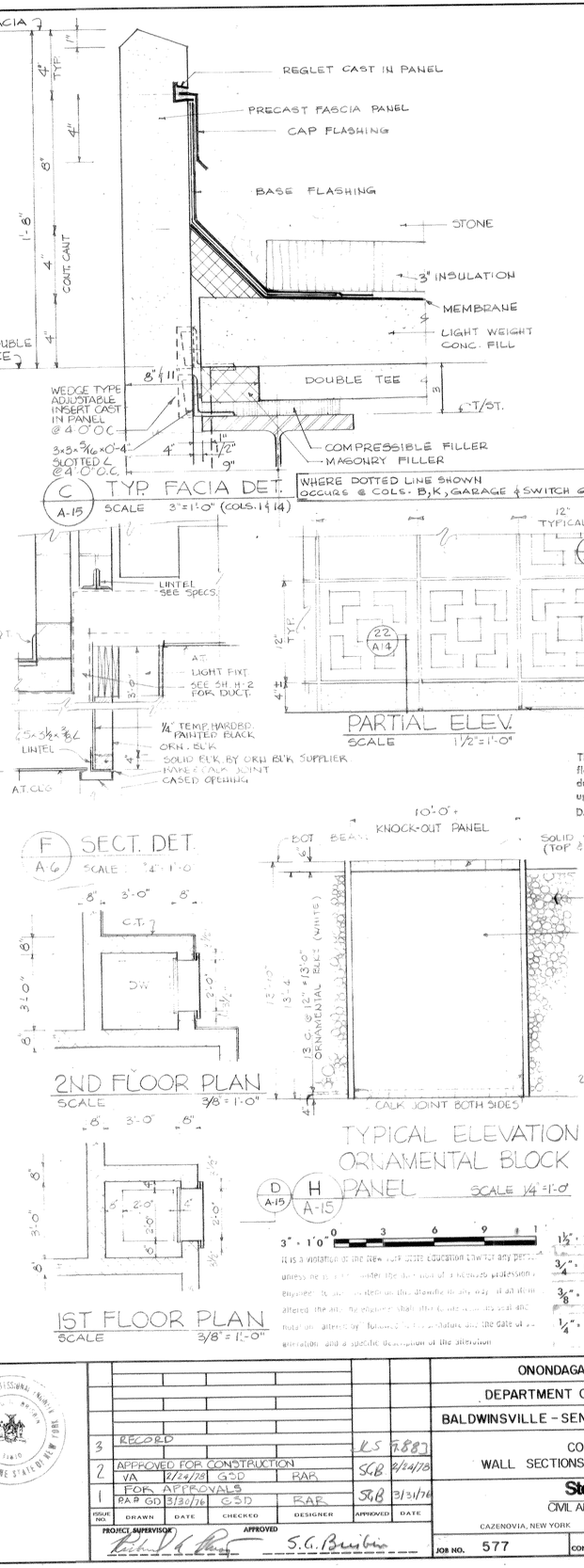
REVISIONS TO (15P) & (16P) - USING DBL TEES & RAISING 5/31/79

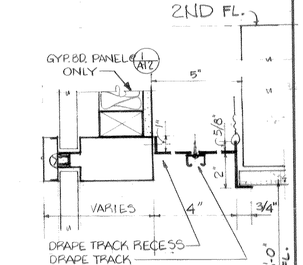
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.











RECORD DRAWING
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Date 9-8-83 Per FLD

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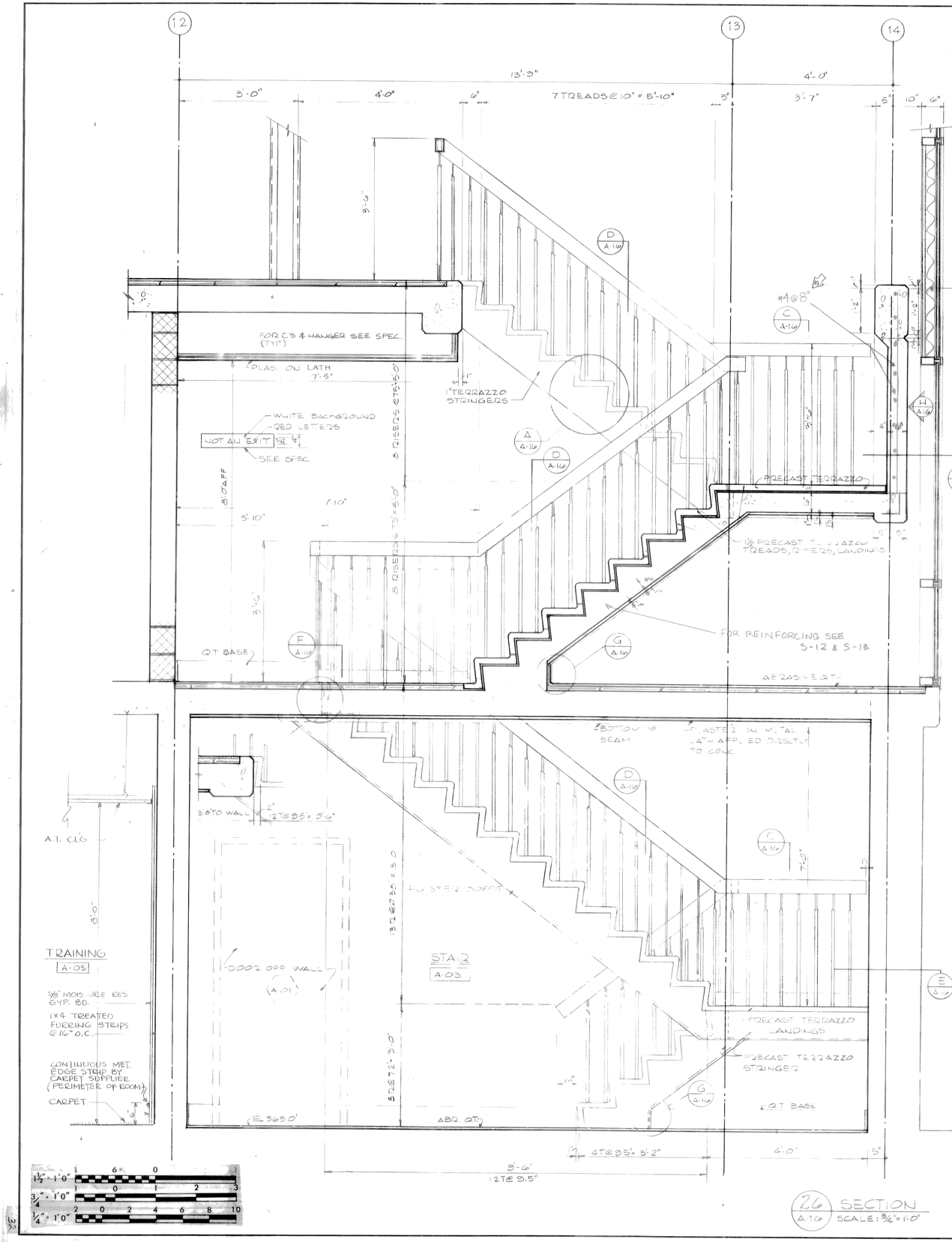
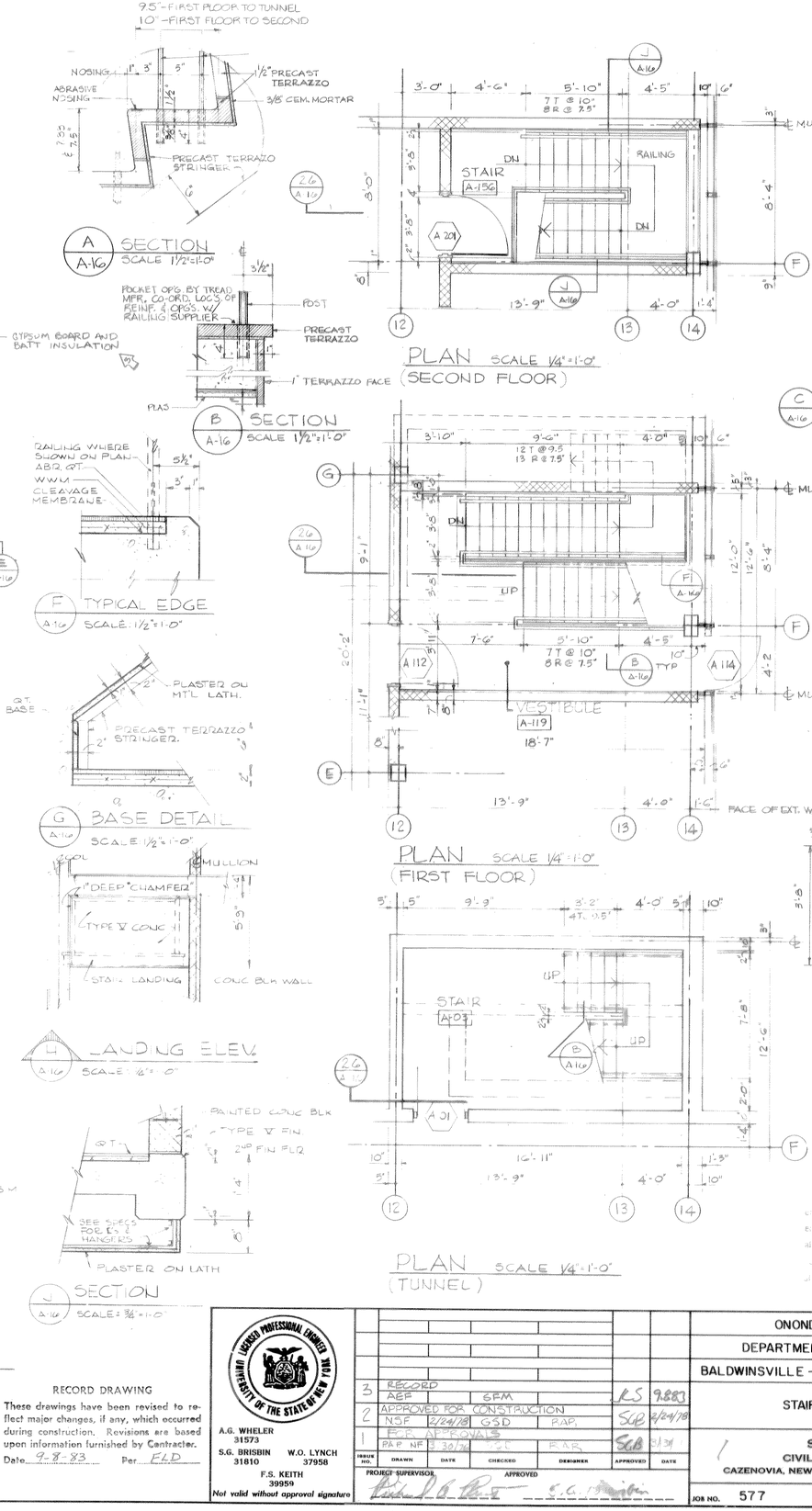
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LS	7-8-83
2	APPROVED FOR CONSTRUCTION	VA	2/24/78	GSD	RAR	SGB 2/24/78
1	FOR APPROVALS	RAP GD	3/30/76	GSD	RAR	SGB 3/31/76

PROJECT SUPERVISOR: Keith V. A. Bailey
APPROVED: S.G. Bembia

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
WALL SECTIONS AND MISCELLANEOUS DETAILS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A-15





NOTE:
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RECORD DRAWING
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Date 9-8-83 Per FLD

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEP		GPM		LS	9-8-83
2	APPROVED FOR CONSTRUCTION NSF	2/24/78	GSD		PAP	SLB 2/24/78
1	FOR APPROVALS PAP NR	3/30/78	GSD		PAP	SLB 3/31

PROJECT SUPERVISOR APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
STAIRWAY PLANS AND DETAILS
(MAIN VESTIBULE)

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-16

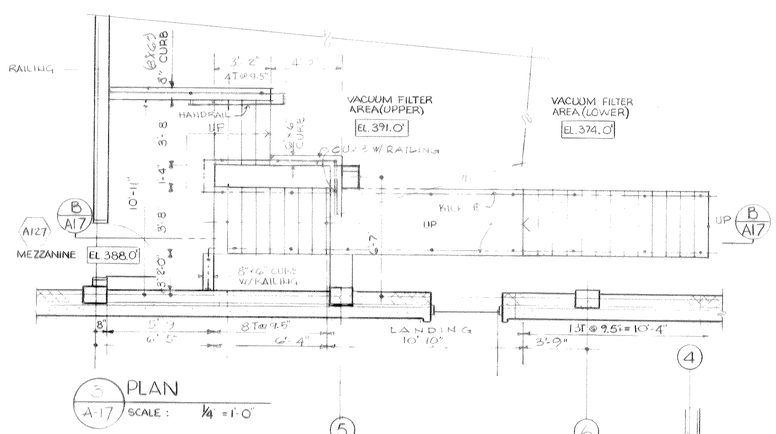
RAILING - NOTE

ALL STAIRS 44" AND WIDER SHALL HAVE RAILINGS BOTH SIDES. STAIRS LESS THAN 44" SHALL HAVE ONE RAILING. THE RAILING SHALL BE TWO RAIL SECTIONS AT ALL OPEN SIDES AND ONE SINGLE RAILING AT CLOSED SIDES. OPEN SIDES SHALL ALWAYS BE PROTECTED WITH TWO RAILS. THIS INCLUDES ALL PLATFORMS IN THE RUN OF THE STAIRWAY.

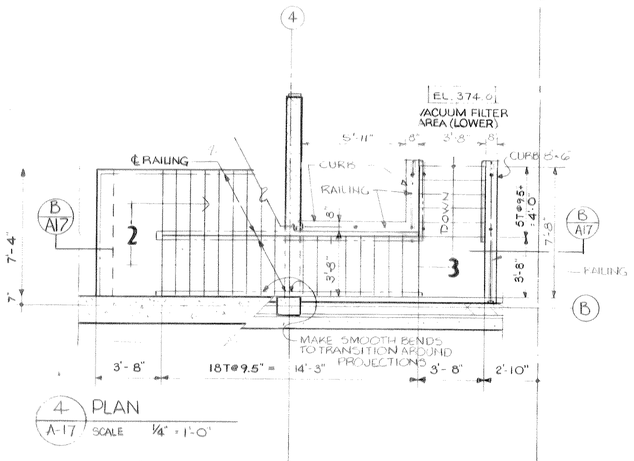
ALL STAIRS FOR PROJECT

NOTE:
MAKE SMOOTH RAILING BENDS TO TRANITION AROUND ALL PROJECTIONS

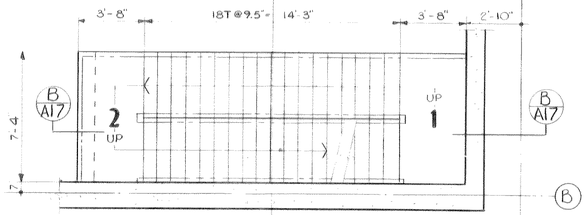
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



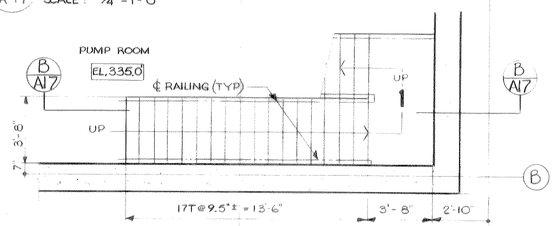
3 A-17 PLAN
SCALE: 1/4" = 1'-0"



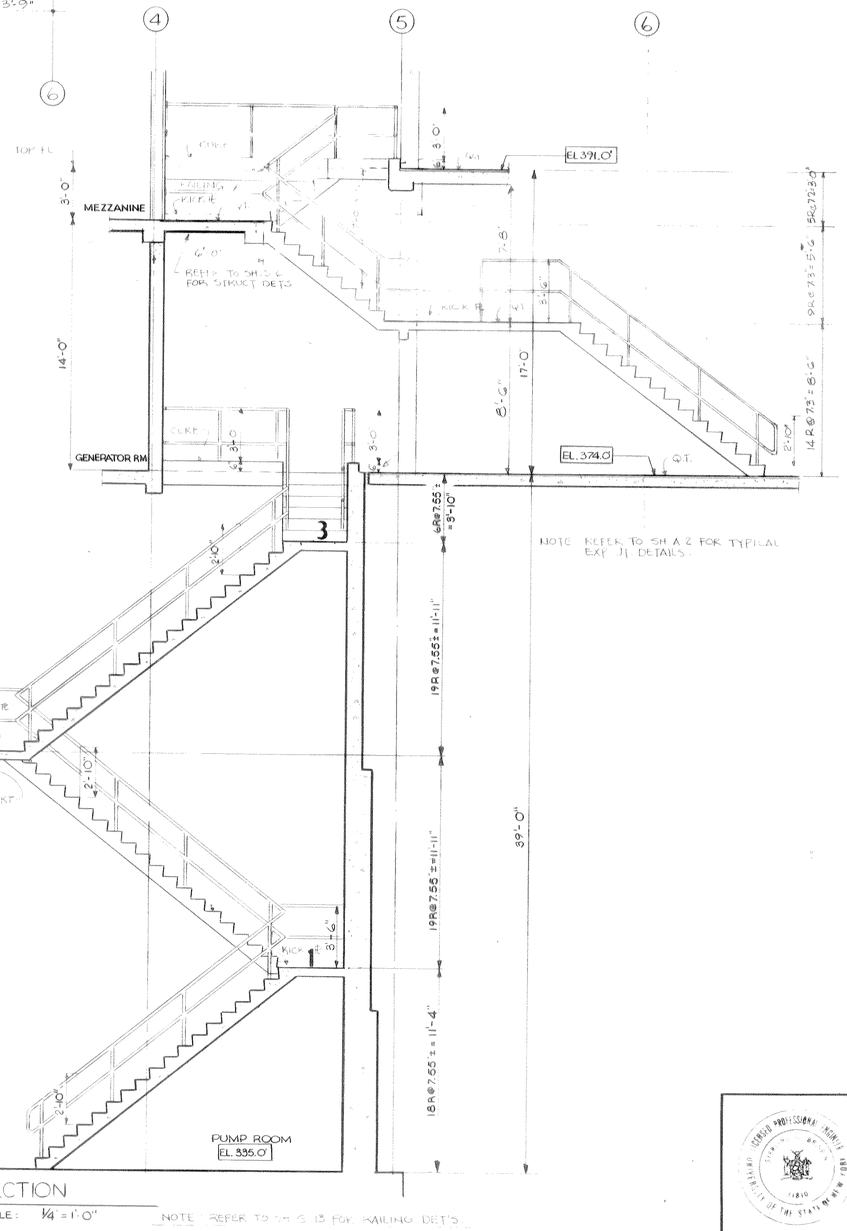
4 A-17 PLAN
SCALE 1/4" = 1'-0"



5 A-17 PLAN
SCALE: 1/4" = 1'-0"



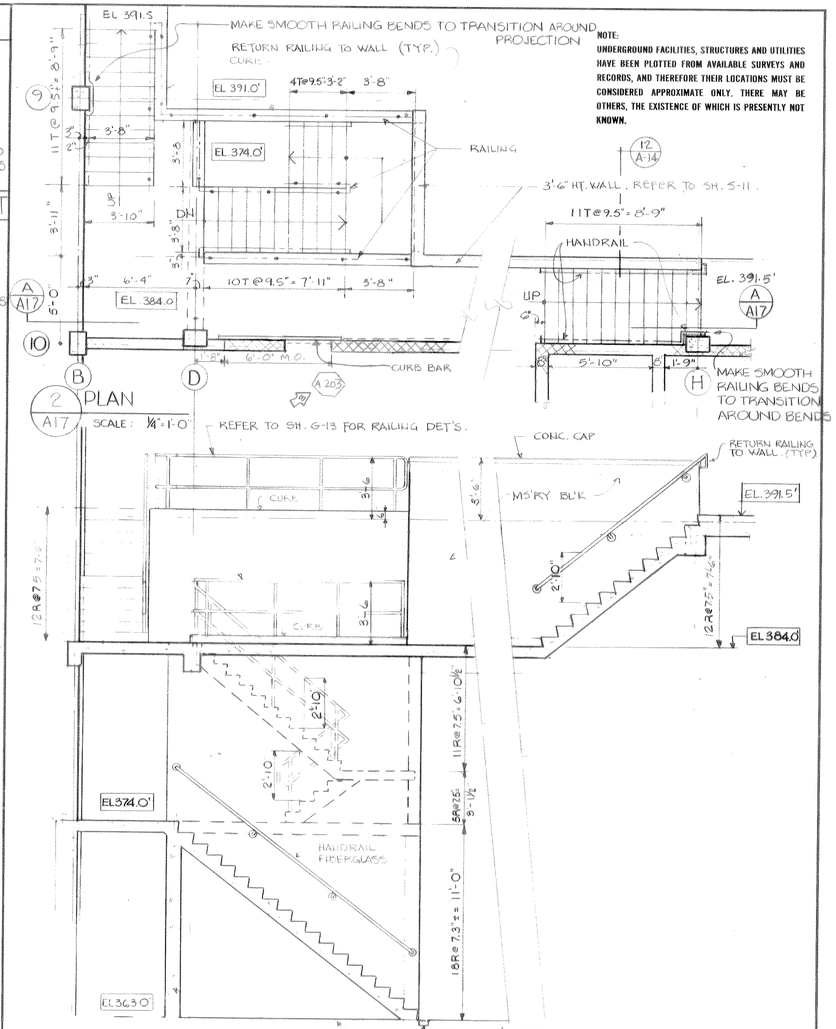
6 A-17 PLAN
SCALE: 1/4" = 1'-0"



B-B SECTION
A-17 SCALE: 1/4" = 1'-0"

NOTE: REFER TO SH. G-13 FOR RAILING DET'S.

NOTE: REFER TO SH A-2 FOR TYPICAL EXP. JT. DETAILS.

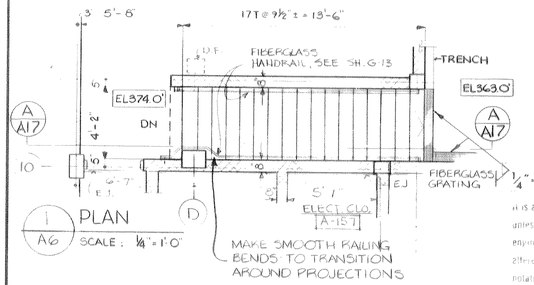


2 A17 PLAN
SCALE: 1/4"=1'-0"

REFER TO SH. G-13 FOR RAILING DET'S.

NOTE: REFER TO STRUCT. DWGS. FOR FOUNDATION & SLAB DIM'S.

A-A SECTION
A-17 SCALE: 1/4"=1'-0"



1 A6 PLAN
SCALE: 1/4"=1'-0"

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per F.L.D.

0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		GEM		JLS	9 8 83
2	APPROVED FOR CONSTRUCTION YA GD	2/24/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS YA	2/30/78	GSD	RAR	SGB	2/3/78

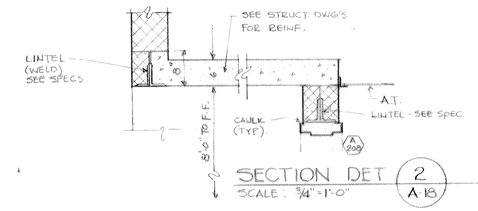
PROJECT SUPERVISOR: Richard A. Rupert — APPROVED: S. G. Bruckner

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

CONTROL BUILDING
STAIRWAY PLANS AND DETAILS
(MEZZANINE, PUMP ROOM/LIME COND.)

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET A-17



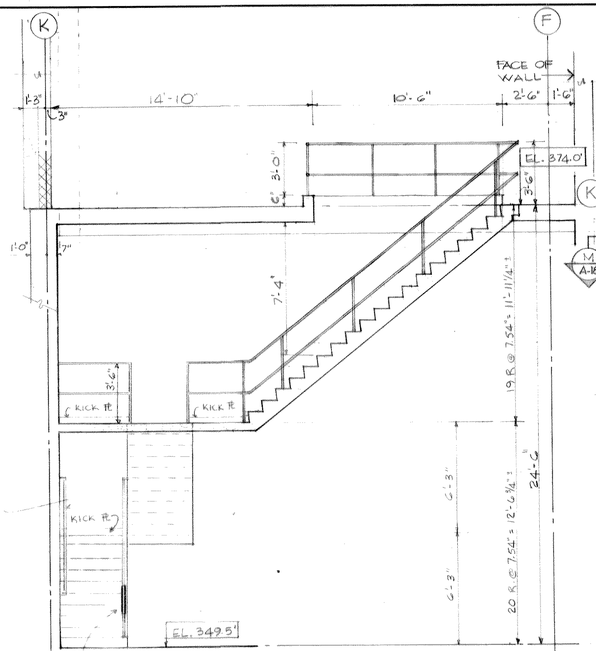
SECTION DET 2 / A-18
SCALE: 3/4" = 1'-0"

RAILING - NOTE

ALL STAIRS 44" AND WIDER SHALL HAVE RAILINGS BOTH SIDES. STAIRS LESS THAN 44" SHALL HAVE ONE RAILING. THE RAILING SHALL BE TWO RAIL SECTIONS AT ALL OPEN SIDES AND ONE SINGLE RAILING AT CLOSED SIDES. OPEN SIDES SHALL ALWAYS BE PROTECTED WITH TWO RAILS. THIS INCLUDES ALL PLATFORMS IN THE RUN OF THE STAIRWAY

ALL STAIRS FOR PROJECT

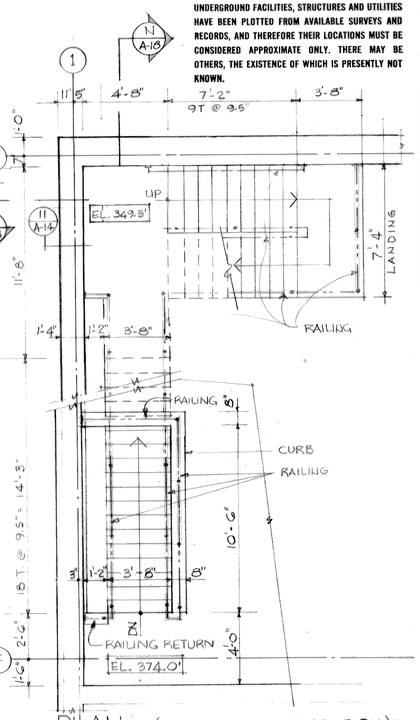
NOTE:
MAKE SMOOTH RAILING BENDS TO TRANSITION AROUND ALL PROJECTIONS



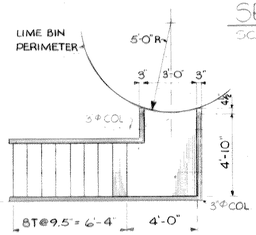
NOTE: REFER TO SH. G-13 FOR RAILING DETAILS.

SECTION "N"
SCALE 1/4"=1'-0"

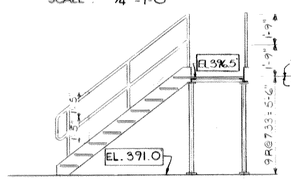
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



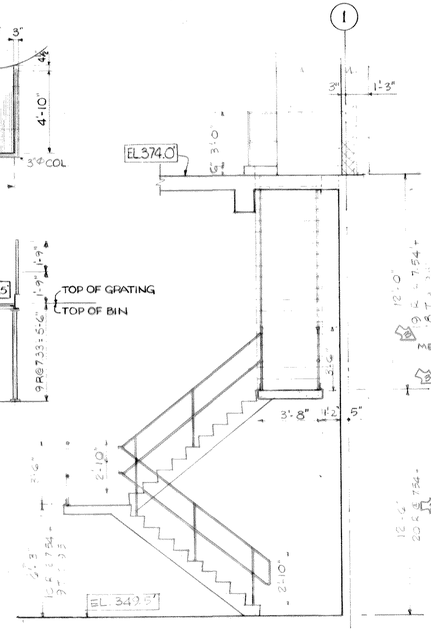
PLAN (STAIRWAY @ INFLUENT RM.)
SCALE 1/4" = 1'-0"



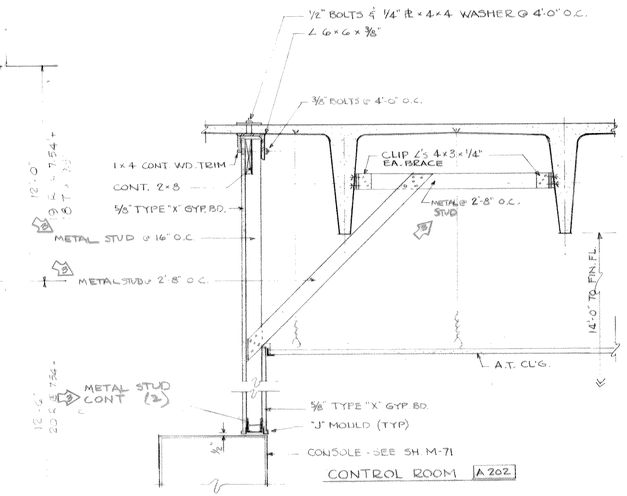
PLAN (LIME BIN)
SCALE 1/4" = 1'-0"



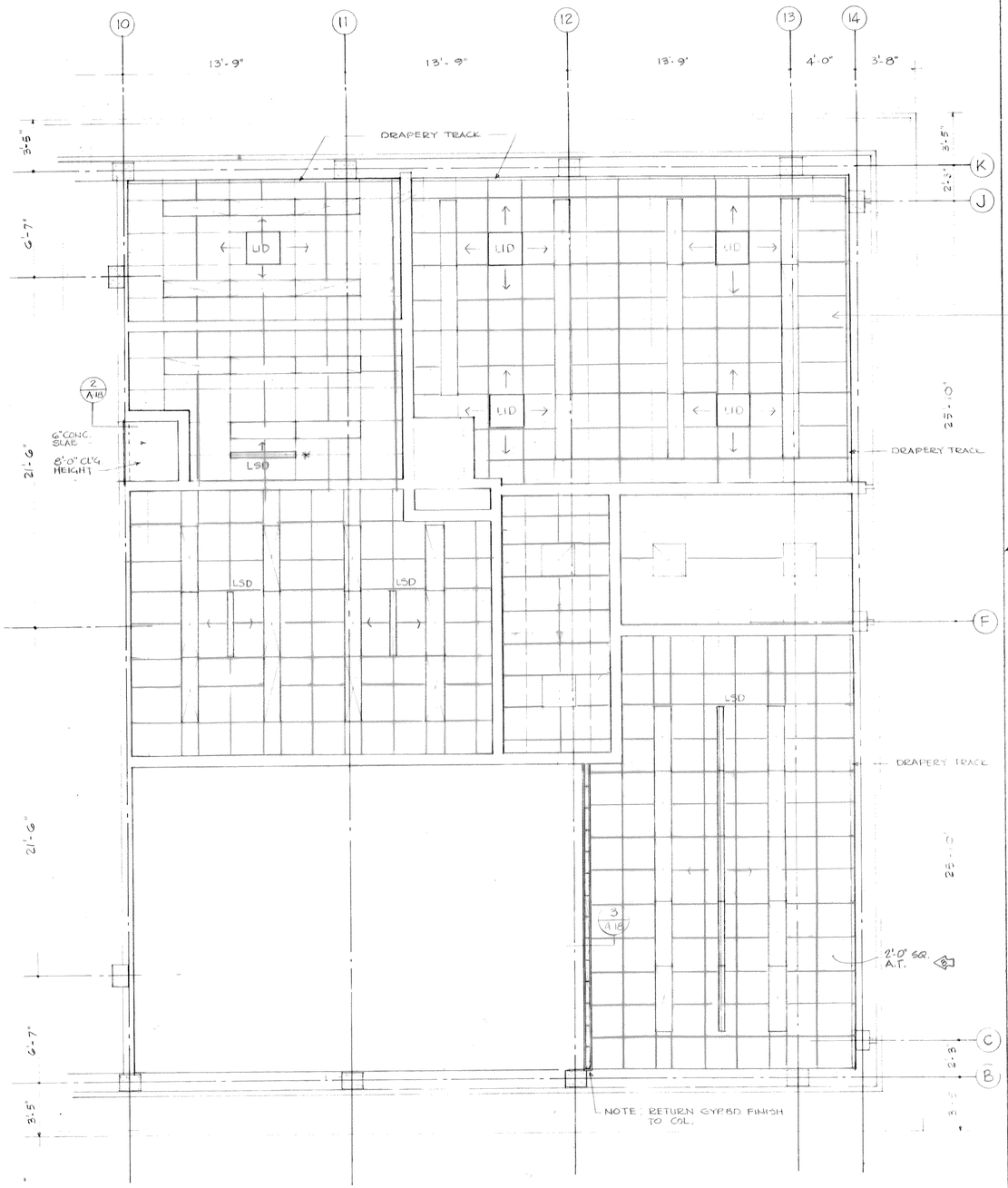
SECTION "G"
SCALE 1/4" = 1'-0"



SECTION "M"
SCALE 1/4"=1'-0"



3/A-7 3/A-18 PARTIAL WALL SECTION DET.
SCALE: 3/4" = 1'-0"



SECOND FLOOR REFLECTED CEILING PLAN
SCALE 1/4" = 1'-0"

CEILING TILE 2'x2'

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per F.L.D.

3/4" = 1'0" 1 0 1 2 3
1/4" = 1'0" 2 0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		SFM		JLS	9.8.83
2	APPROVED FOR CONSTRUCTION VA	2/24/78	GSD	FAR	SGB	2/24/78
1	FOR APPROVALS PAP VA	8/30/76	GSD	FAR	SGB	3/31/76

PROJECT SUPERVISOR S. C. Bunbury — APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
REFLECTED CEILING PLAN
SECOND FLOOR AND MISC. STAIRWAY DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET A-18

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per F&D

NOTE: LSD = LINEAR SLOT DIFFUSER. SEE DET. SH. H-21.
LID = LAY-IN DIFFUSER. (ALL BY CONTRACT #2)

PLASTER CEILINGS AND SOFFITS ARE GYPSUM PLASTER WITH KEENE'S CEMENT FINISH.

COORDINATE ALL CEILING WORK WITH MECH & ELEC. CONTRACTS

PROVIDE CONTROL JOINTS IN CEILING AND SOFFITS AT CHANGES OF DIRECTION & AT MAJOR BREAKS

LIGHTING BY CONTRACT #3

NOTE: PROVIDE NEC. BLOCKING BETWEEN FIXTURES (BY G.C.) TYPICAL

FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1/4"=1'-0"

FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1/4"=1'-0"

DOOR #110 HEAD DET.

3/A-6 3/A-19 SCALE: 1"=1'-0"

CABINET SECT. DET.

4/A-19 SCALE: 3/4"=1'-0" CAB. A-159; A-160

ACCESS DOOR DET.

1/A-19 SCALE 3"=1'-0"

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					
	AEP		SPM		KS	9/8/83
2	APPROVED FOR CONSTRUCTION					
	VA GD	2/24/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS					
	PAR GD	3/30/76	GSD	RAR	SGB	3/31/76

PROJECT SUPERVISOR: Tucker A. Reed — APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

CONTROL BUILDING
REFLECTED CEILING PLANS
FIRST FLOOR

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A-19

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PLAN SCALE 1/4"=1'-0"

ELEV. D-2

ELEV. D-1

PLAN SCALE 1/4"=1'-0"

ELEV. W-5
SCALE 1/8"=1'-0"

ELEV. W-1

ELEV. W-2

NOTE:
EXPOSED ASBESTOS CEMENT ON BACK OF INSULATED SPANDREL GLASS PANELS IS FIELD PAINTED. SEE ROOM FINISH SCHEDULE FOR COLOR.

4 A-20 PLAN DET.
SCALE: 3"=1'-0"

NOTES: 1. ALL WINDOW FRAMES: L'S, SILLS, LOUVERS, TRIM, ETC., ARE ANODIZED ALUMINUM IN COLOR SHOWN ON SCHEDULE. SH. A-1.
2. ANCHOR CLIPS BY WINDOW MFR.

RECORD DRAWING
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Date 9-8-83 Per F.I.D.

ELEV. D-3
SCALE 1/8"=1'-0"

ELEV. W-3

ELEV. W-4
SCALE 1/8"=1'-0"

ELEV. W-6
SCALE 1/8"=1'-0"

1 A-20 HEAD DET. SECT.
SCALE 3"=1'-0"

2 A-20 HEAD DET. SECT
SCALE 3"=1'-0"

3 A-20 WINDOW - PLAN DET.
SCALE: 3"=1'-0"

F PLAN
SCALE: 1/4"=1'-0"

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

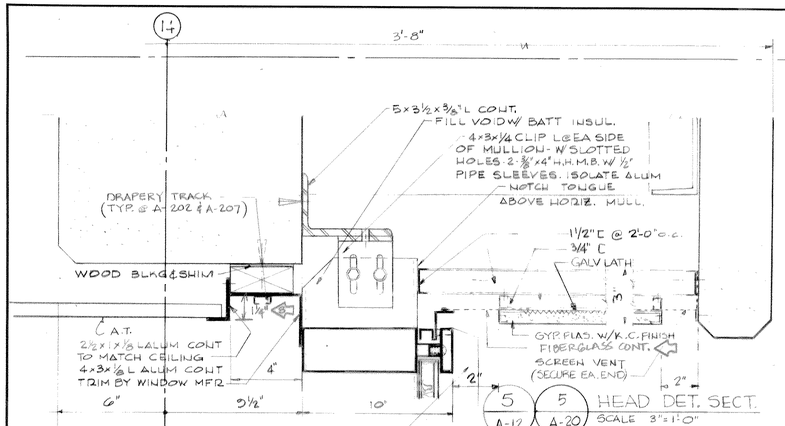
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD			JLS		9/8/83
2	APPROVED FOR CONSTRUCTION GD, VA	12/24/75	GSD	PAR	SGB	2/24/76
1	FOR APPROVAL S PAP GD	3/30/76	GSD	PAR	SGB	3/31/76

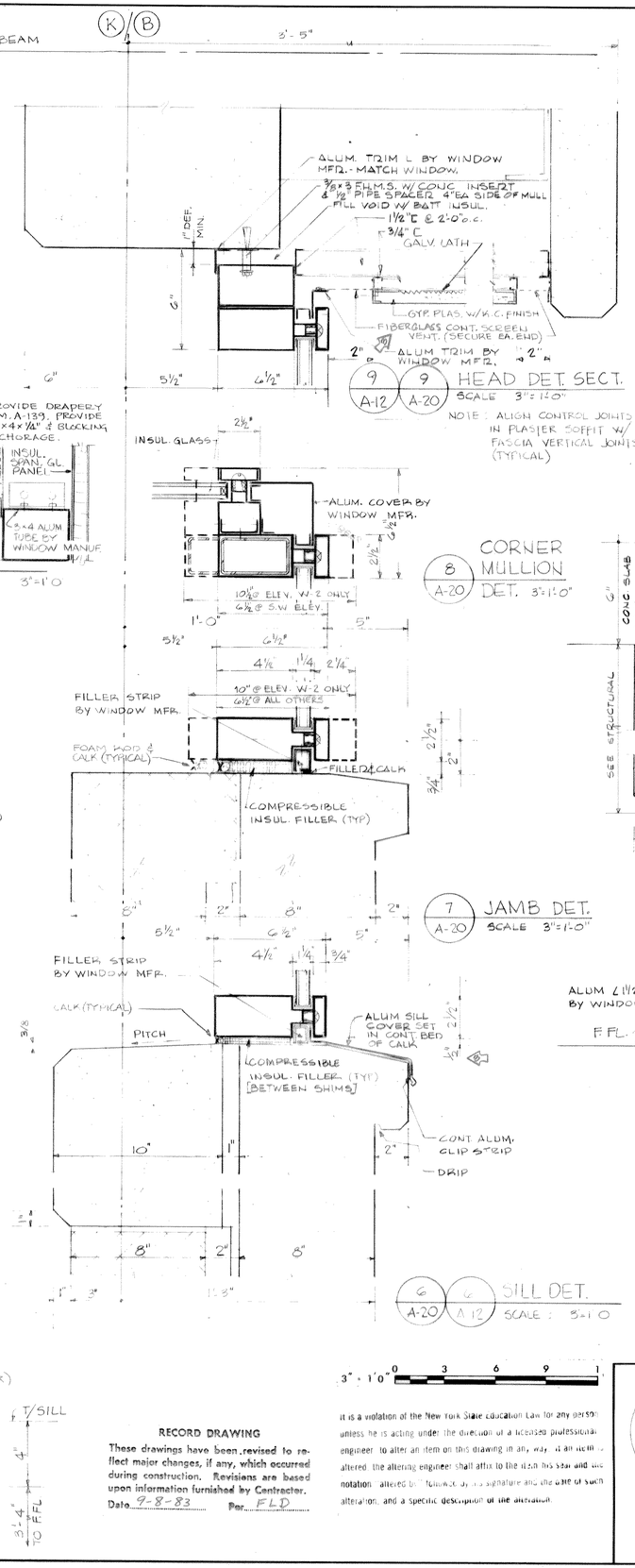
PROJECT SUPERVISOR Richard L. Post APPROVED S.G. Brisbin

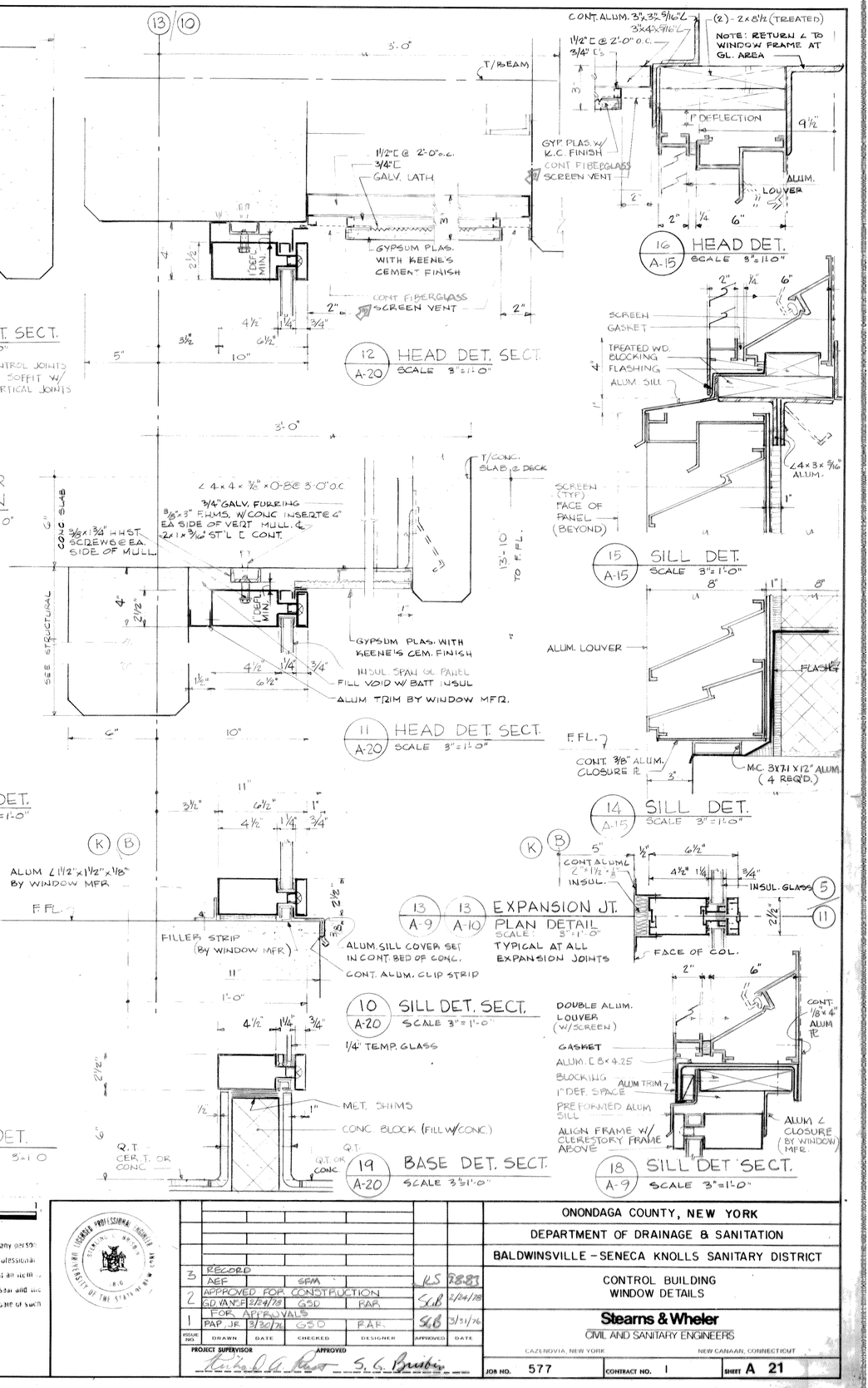
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
WINDOW PLANS AND ELEVATIONS

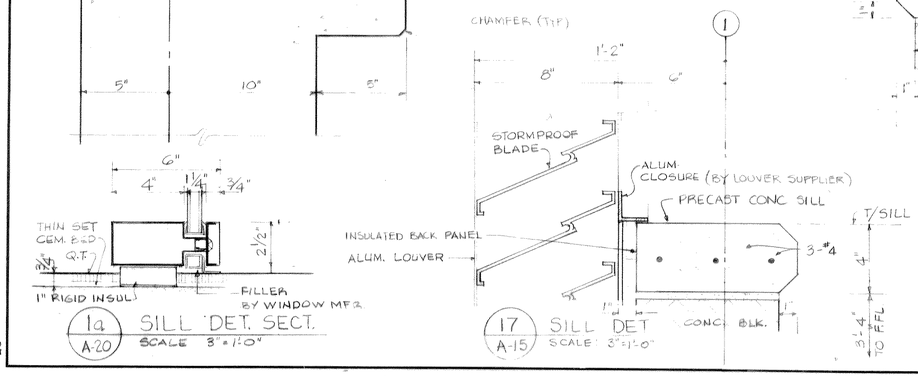
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-20









3" = 1'0" 0 3 6 9 1

RECORD DRAWING

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Date 9-8-83 By ELD

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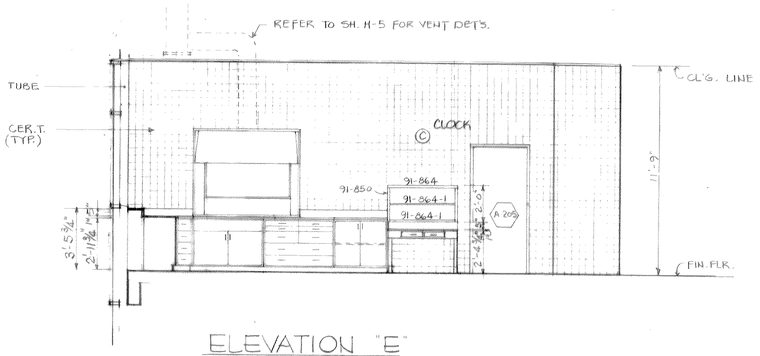
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					
	AEF		SPM		KS	7-8-83
2	APPROVED FOR CONSTRUCTION					
	GD VANCE	2/24/78	GSD	PAR	S.G.B	2/24/78
1	FOR APPROVALS					
	PAP, JR.	3/30/76	GSD	PAR	S.G.B	3/31/76

PROJECT SUPERVISOR S. G. Bruton APPROVED

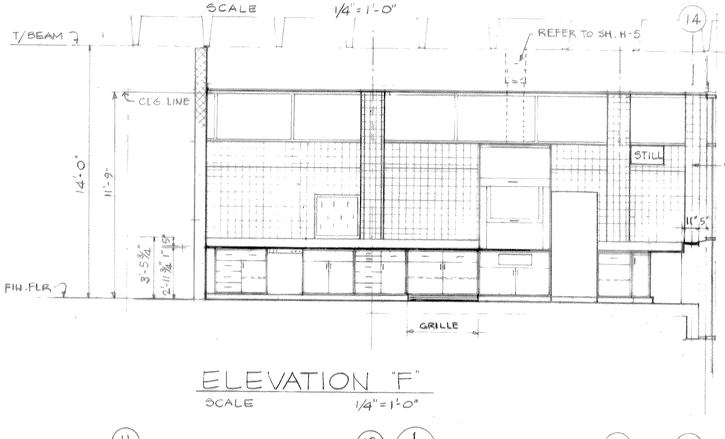
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING WINDOW DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A 21



ELEVATION "E"
SCALE 1/4" = 1'-0"



ELEVATION "F"
SCALE 1/4" = 1'-0"

NOTES:

1) CERAMIC TILE ON WALLS EXTENDS BEHIND ALL FLOOR & WALL CABINETS.

2) QUARRY TILE EXTENDS UNDER ALL CABINETS. USE SAME DETAILS AS AT EXPOSED AREAS.

3) LT. MET FRAMING: ALTERNATE; USE MFR'S SUPPORT STRUT ASSEMBLY W/SERVICE PIPE CLAMPS & DRAINLINE SUPPORTS. COORDINATE SPACING W/MECH. EQUIPMENT REQUIREMENTS & PIPING

COLOR SCHEDULE

COUNTER TOPS - BLACK
DRAWER & DOOR FRONTS - GRAY
BASIC FRAMES, END PANELS - WHITE
CABINET HARDWARE - BRUSHED CHROME ON ALUM.

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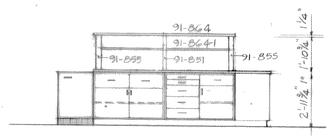
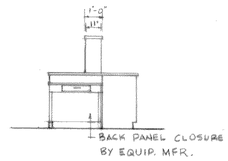
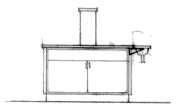


ELEVATION "D"
SCALE 1/4" = 1'-0"



ELEV. "C"
SCALE 1/4" = 1'-0"

ELEV. "B"
SCALE 1/4" = 1'-0"



ELEV. "A"
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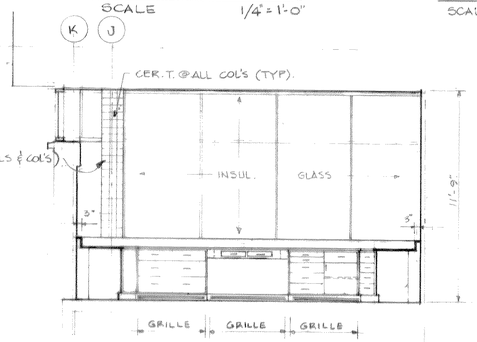
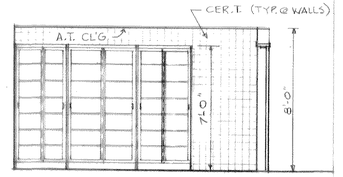
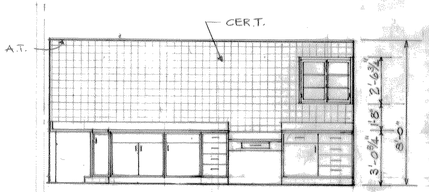


ELEVATION "G"
SCALE 1/4" = 1'-0"



ELEVATION "H"
SCALE 1/4" = 1'-0"



ELEVATION "J"
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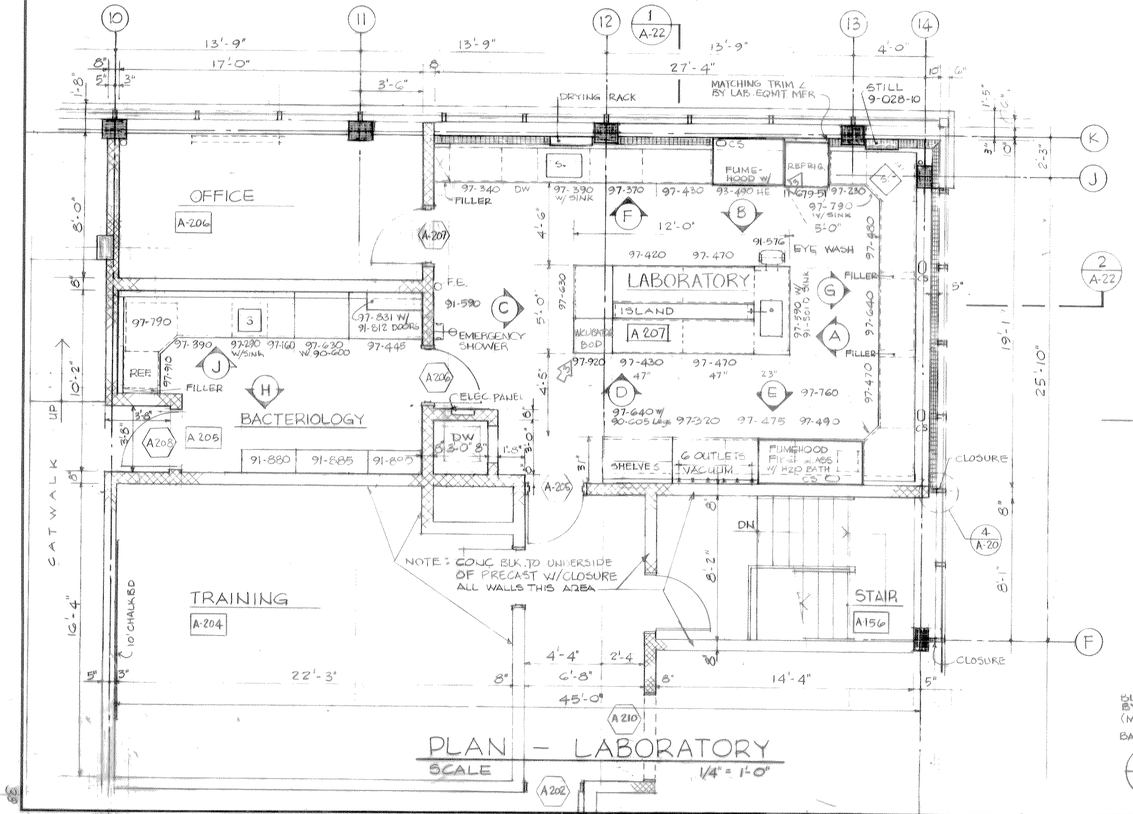
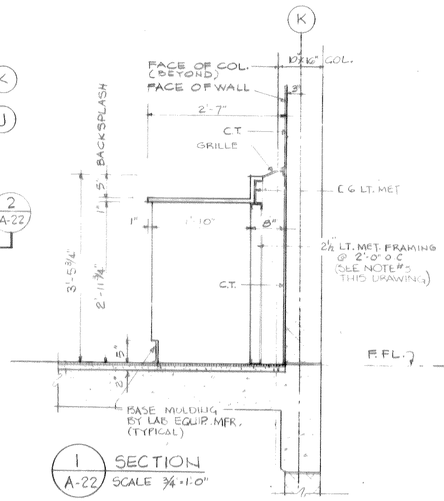
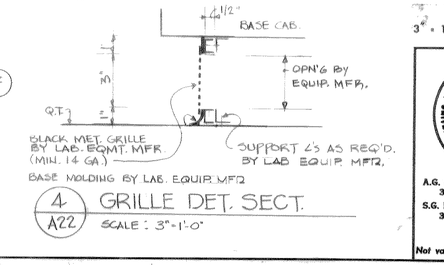


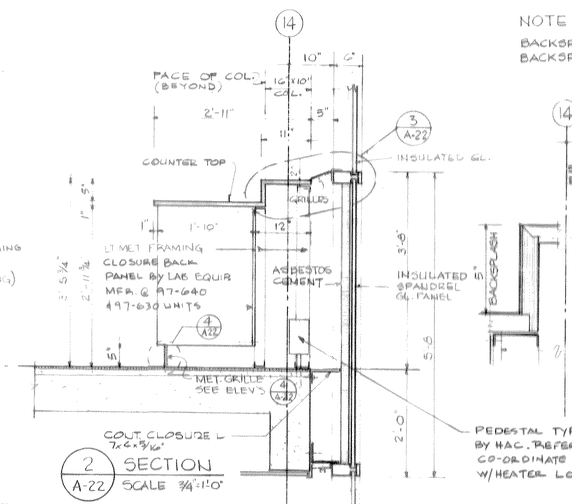
PLAN - LABORATORY
SCALE 1/4" = 1'-0"



1 A-22 SECTION
SCALE 3/4" = 1'-0"

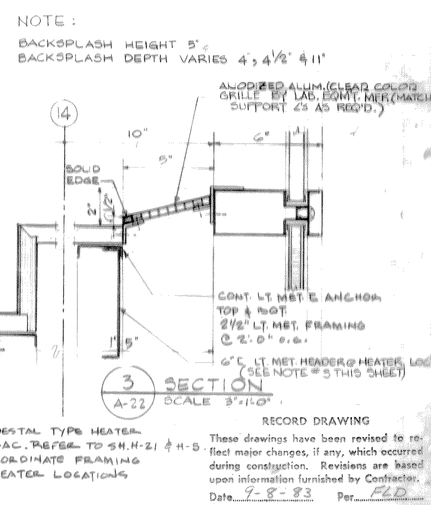


4 A22 GRILLE DET. SECT.
SCALE: 3" = 1'-0"



2 A-22 SECTION
SCALE 3/4" = 1'-0"

NOTE:
BACKSPLASH HEIGHT 5"
BACKSPLASH DEPTH VARIES 4", 4½" & 11"



3 A-22 SECTION
SCALE 3" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

3/4" = 1'0" 0 3 6 9 1

3/4" = 1'0" 1 0 1 2 3

1/4" = 1'0" 2 0 2 4 6 8 10

A.G. WHEELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

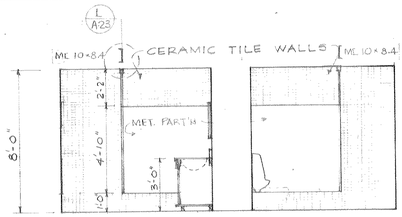
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		GFM	JCS		7/6/83
2	APPROVED FOR CONSTRUCTION GD. VANSP	2/24/78	GSD	PAR	SGB	2/24/78
1	FOR APPROVALS PAR GD	3/30/76	GSD	PAR	SGB	3/31/76

PROJECT SUPERVISOR Herbert A. Russ APPROVED S.G. Brisbin

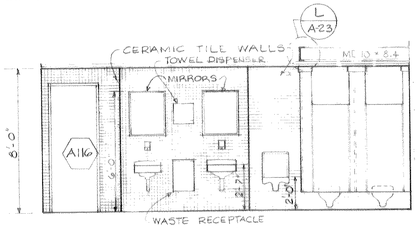
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
LABORATORY
PLANS AND ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-22



"C","C"



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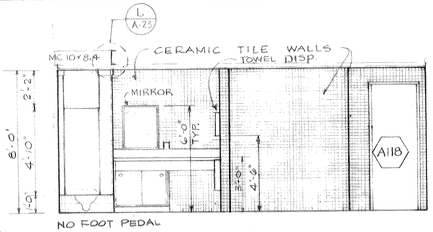
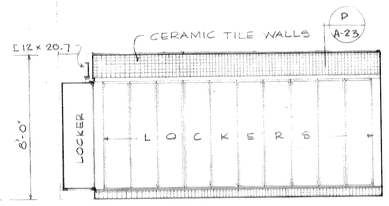


"A"

TOILET ROOM ELEVATIONS

SCALE 1/4" = 1'-0"



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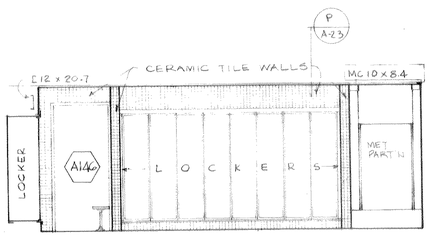

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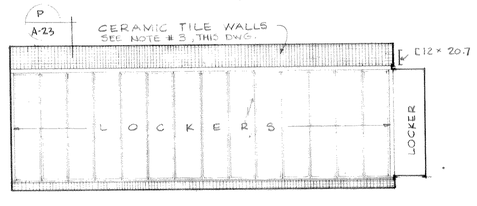
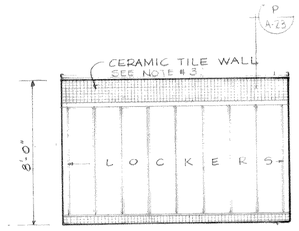


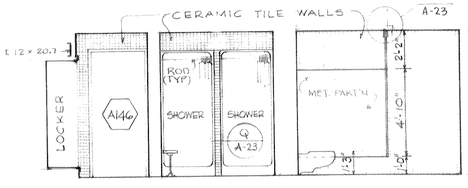
"D"

LOCKER ROOM ELEVATIONS

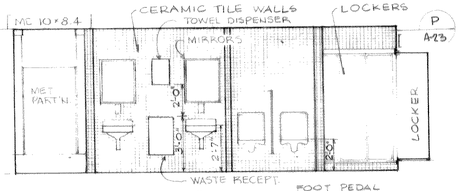
SCALE 1/4" = 1'-0"



"J"



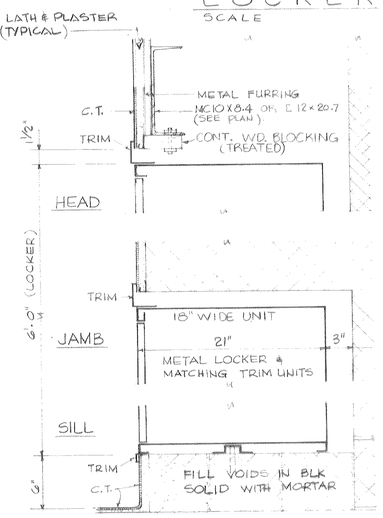
"H","H"



"G"

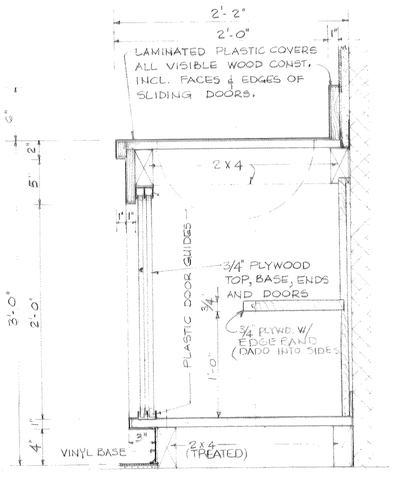
LOCKER, SHOWER AND TOILET ROOM ELEVATIONS

SCALE 1/4" = 1'-0"



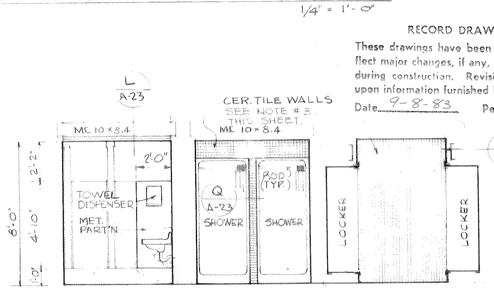
P A-23 LOCKER DETAIL

SCALE 1½" = 1'-0"

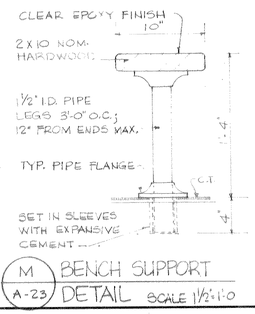


N A-23 LAVATORY VANITY SECT.

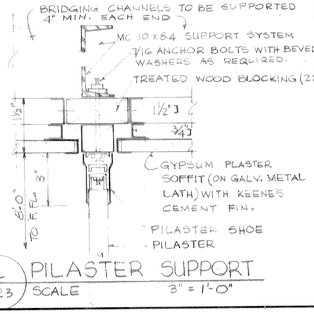
SCALE 1½" = 1'-0"



"K","K"



M A-23 BENCH SUPPORT DETAIL SCALE 1½"=1'-0"



L A-23 PILASTER SUPPORT

SCALE 3" = 1'-0"

RECORD DRAWING

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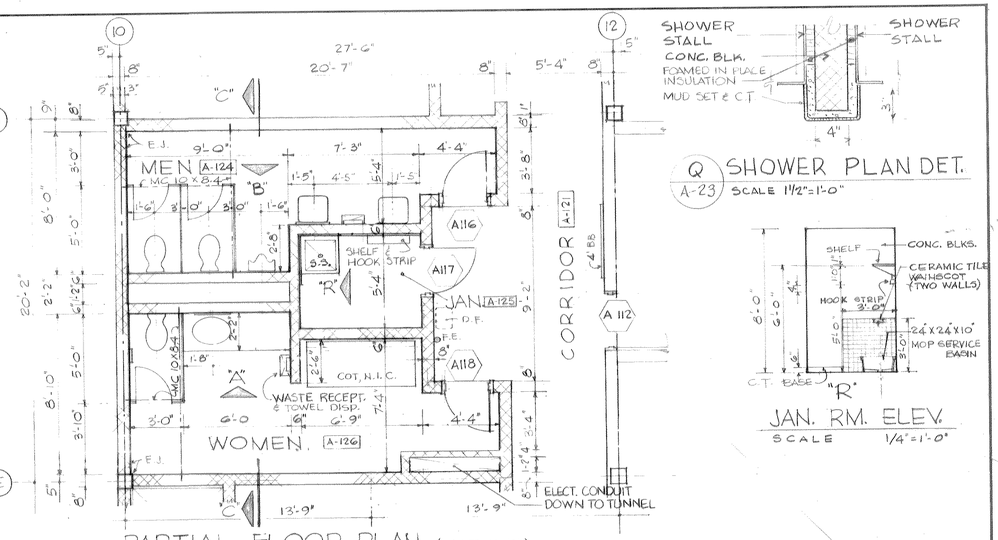
Date 9-8-83 Per FLD



PARTIAL FLOOR PLAN (MATCH "A")

SCALE 1/4" = 1'-0"

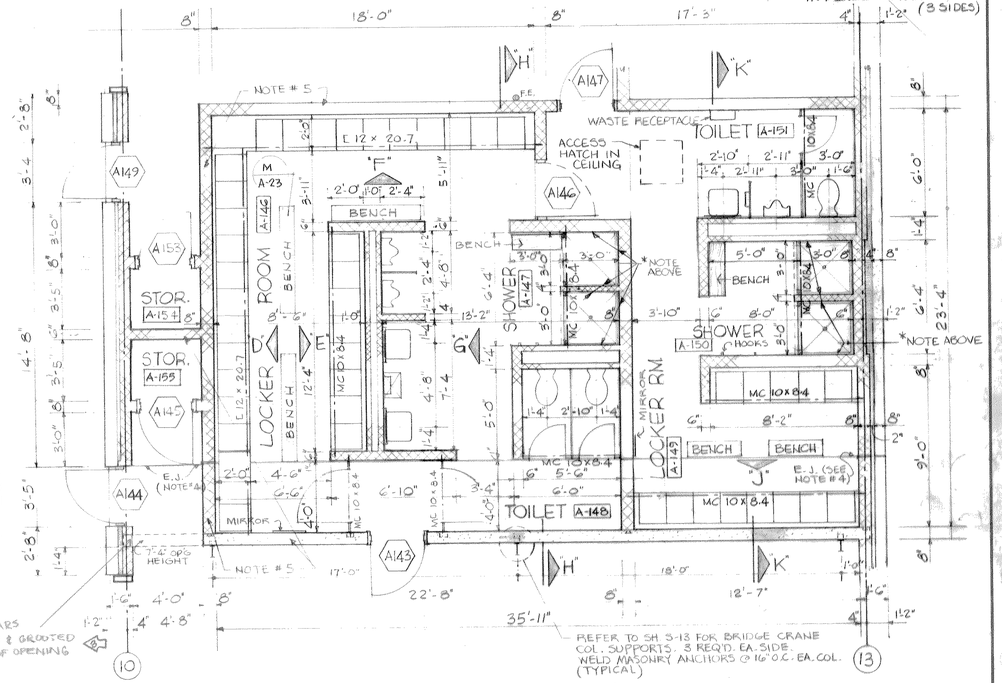
Q A-23 SHOWER PLAN DET.

SCALE 1½"=1'-0"

JAN. RM. ELEV.

SCALE 1/4"=1'-0"

*NOTE FILL VOIDS AROUND SHOWERS WITH FOAMED IN PLACE INSULATION (3 SIDES)



PARTIAL FLOOR PLAN (MATCH "B")

NOTES:

1. PROVIDE FOOT PEDALS AS REQUIRED AT ALL LAV., URINALS, & W.C. EXCEPT WHERE NOTED.
2. SLOPE FLOORS TO DRAINS. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.
3. WALLS OVER LOCKER OPENINGS, SHOWER OPENINGS, ETC. SHALL BE LATH & PLASTER W/ CERAMIC TILE FINISH.
4. REFER TO SH. A-2 FOR TYP. EXP. JT. DET'S.
5. EXTEND WALL HEIGHT TO UNDERSIDE PRECAST W/CLOSURE

3" = 1'-0" 0 3 6 9 1

1½" = 1'-0" 1 6 0 1

¼" = 1'-0" 2 0 2 4 6 8 10

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ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					JLS	9/8/83
	AEP		SFM				
2	APPROVED FOR CONSTRUCTION					SGB	2/24/78
	GSD	2/24/78	GSD		PAR		
1	FOR APPROVALS					SGB	2/31/76
	PAP GD	2/30/76	GSD		PAR		

PROJECT SUPERVISOR Richard A. Rust APPROVED S.G. Brinton

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

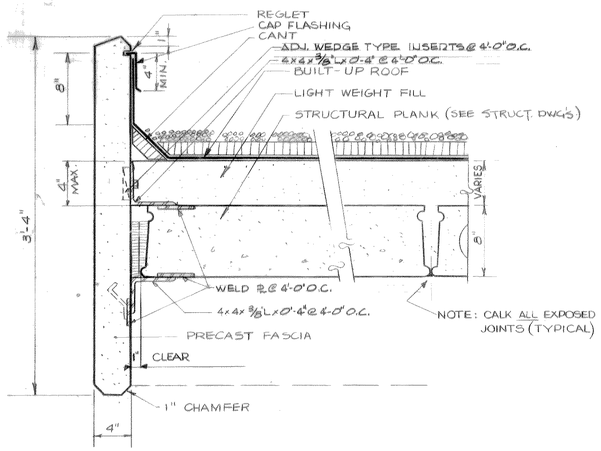
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

CONTROL BUILDING
TOILET ROOM AND LOCKER ROOM
1/4 - INCH PLAN AND ELEVATIONS

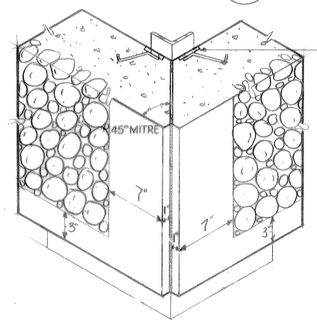
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A 23

59

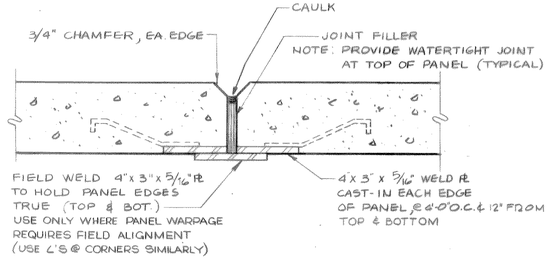


FASCIA DETAIL - WALKWAY (3 / A24)
SCALE = 1-1/2" = 1'-0"



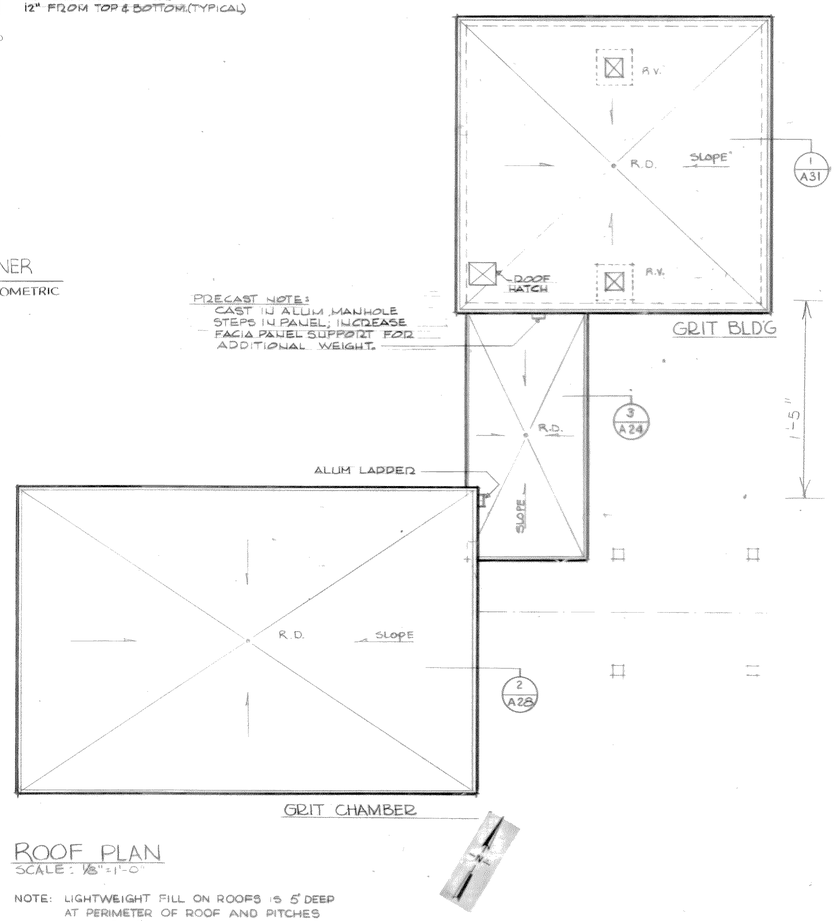
3x3x5/16 L x 0'-4" W/ 4x3x5/16 WELD PL'S CAST IN EACH EDGE OF PANEL @ 4'-0" O.C. & 12" FROM TOP & BOTTOM (TYPICAL)

(5 / A24) TYPICAL PANEL CORNER
NO SCALE ISOMETRIC



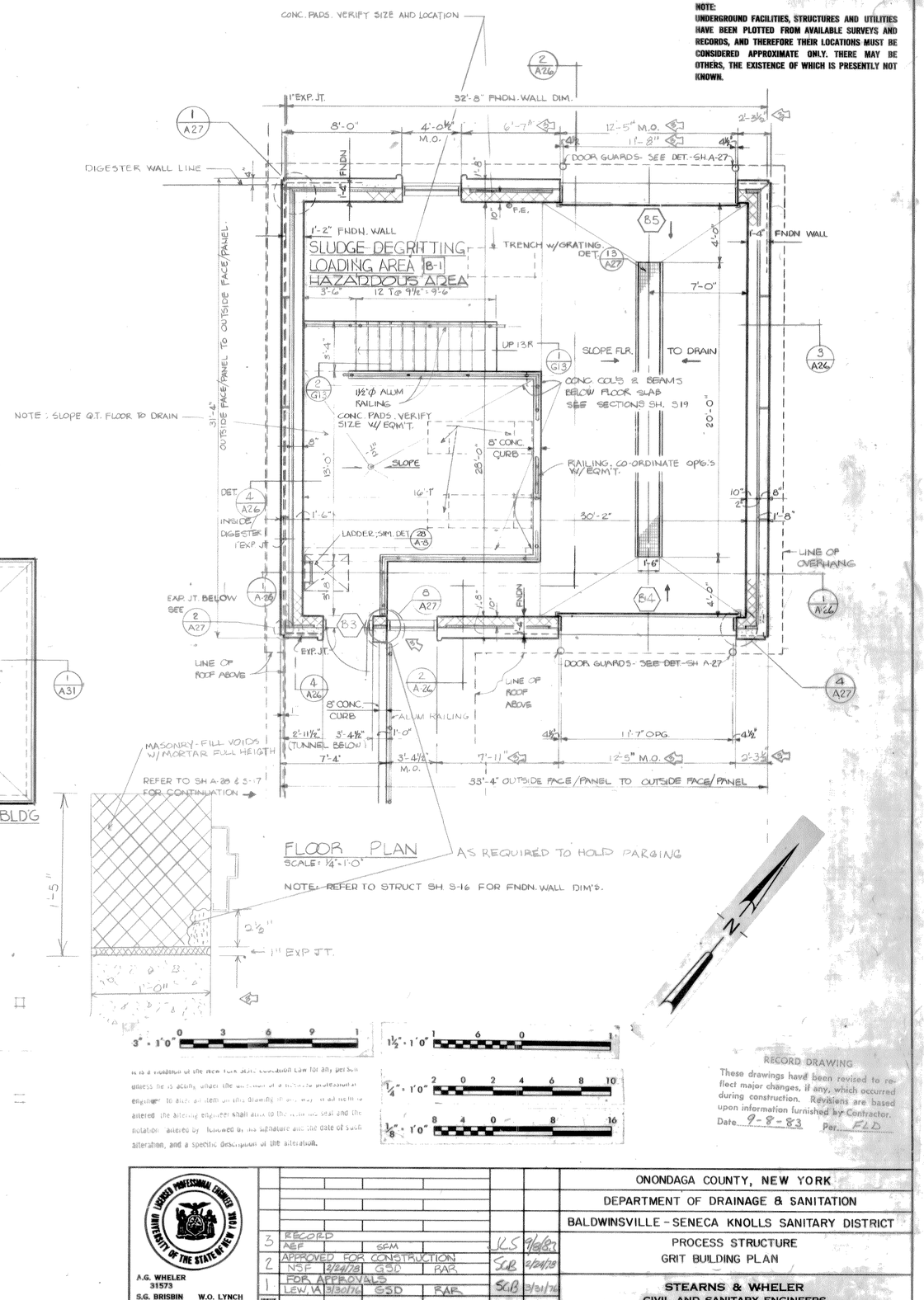
TYPICAL PLAN: PRECAST FASCIA PANEL PLAN
DETAIL AT VERTICAL JOINT (4 / A25)
SCALE 3" = 1'-0"

NOTE:
INSERTS & PL'S IN POURED CONCRETE FOR PRECAST OR PRESTRESSED CONCRETE SHALL BE FURNISHED BY THOSE MANUFACTURERS TO G.C. FOR INSTALLATION



ROOF PLAN
SCALE: 1/8" = 1'-0"

NOTE: LIGHTWEIGHT FILL ON ROOFS IS 5' DEEP AT PERIMETER OF ROOF AND PITCHES DOWN TO 1" AT ROOF DRAIN.



NOTE:
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3" = 1'0" 0 3 6 9 1
1½" = 1'0" 1 6 0 1
¼" = 1'0" 2 0 2 4 6 8 10
⅛" = 1'0" 8 4 0 8 16

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RECORD DRAWING
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Date 9-8-83 Per F.L.D.

LICENSED PROFESSIONAL ENGINEER — THE UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE No.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD ABF		SGM		KLS	9/8/83
2	APPROVED FOR CONSTRUCTION NSF	2/24/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS LEW, VA	3/30/76	GSD	RAR	SGB	3/31/76

PROJECT SUPERVISOR: Richard M. Root
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BUILDING PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-24

NOTE:
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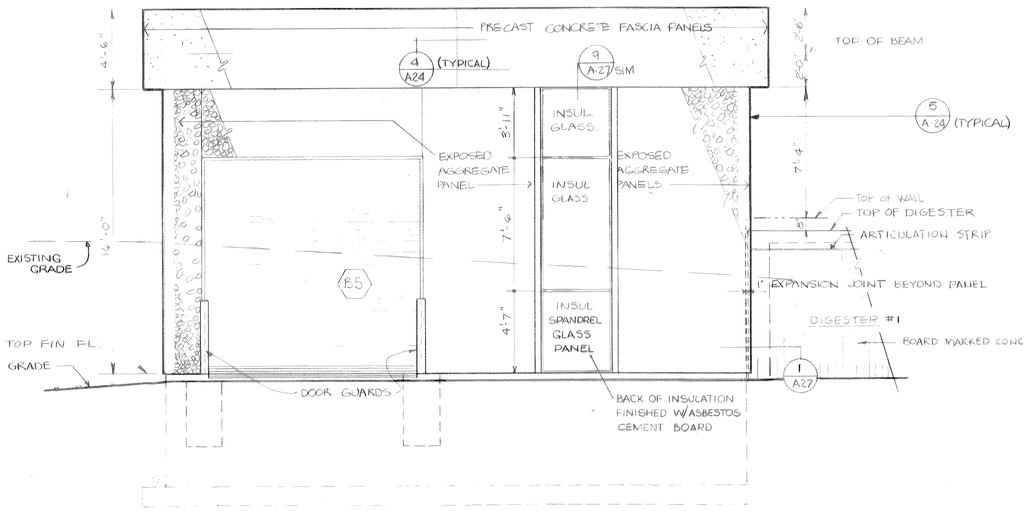
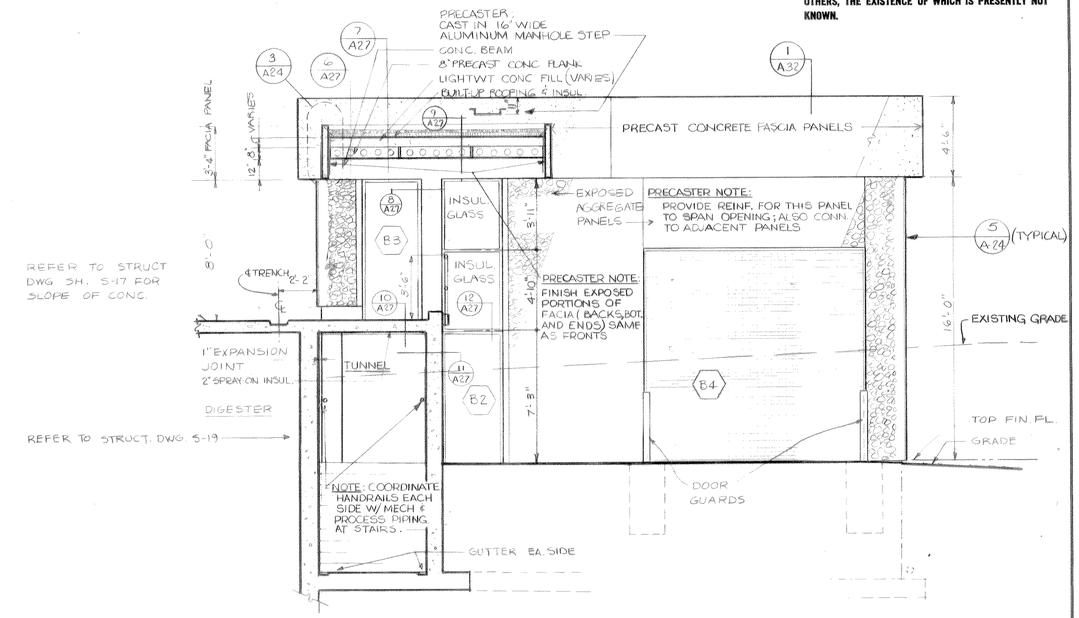
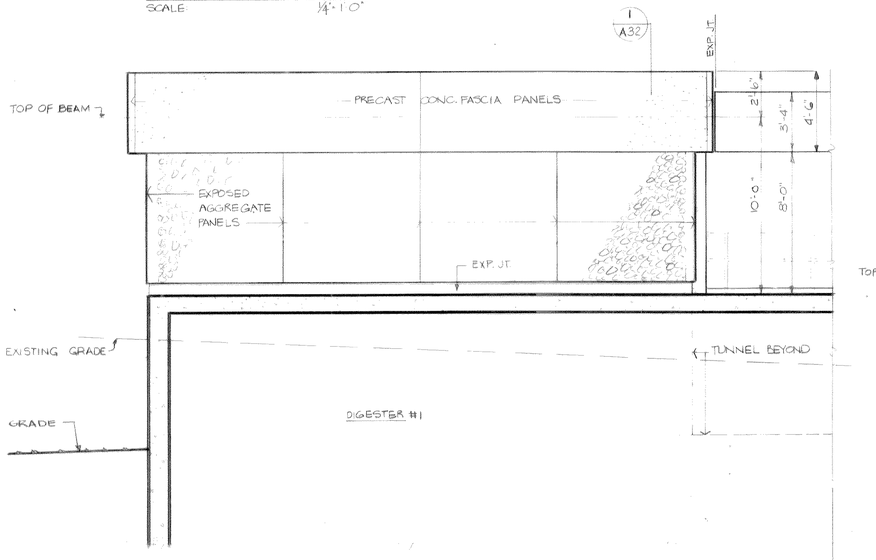


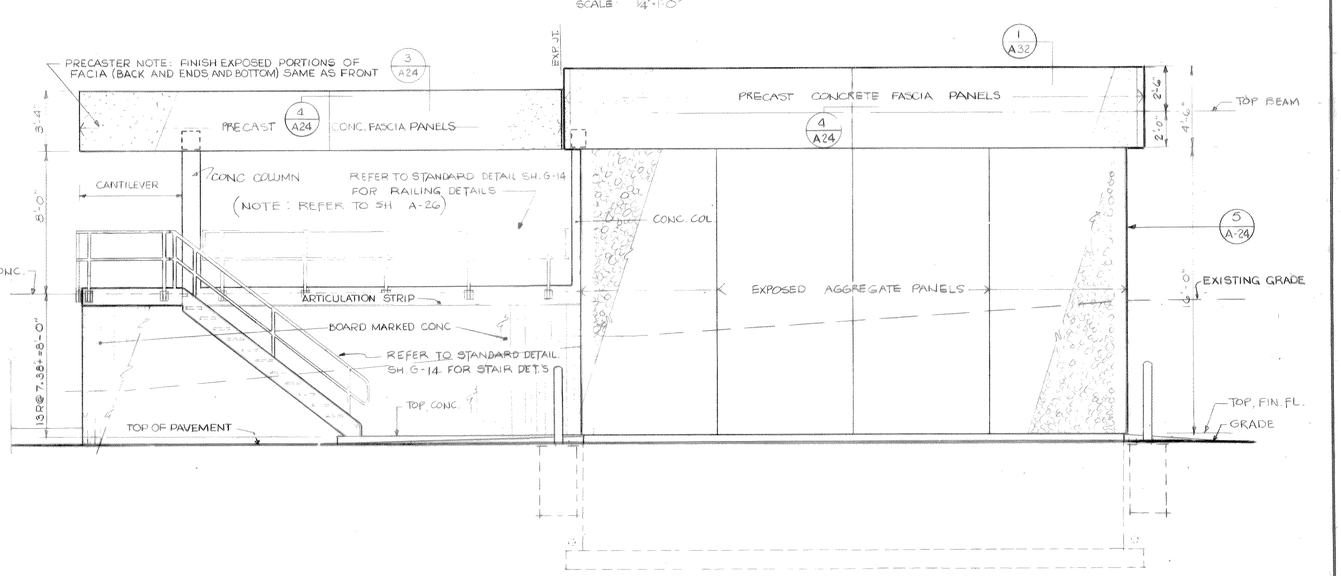
NORTH ELEVATION
SCALE: 1/4"-1'-0"



SOUTH ELEVATION
SCALE: 1/4"-1'-0"



WEST ELEVATION
SCALE: 1/4"-1'-0"



EAST ELEVATION
SCALE: 1/4"-1'-0"

PRECAST AGGREGATE PANEL SUPPLIER NOTE: CO-ORDINATE PLACEMENT OF ALL ELECTRICAL FIXTURES & OUTLETS IN PRECAST W/ELECTRICAL DWGS.

RECORD DRAWING

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Date 9-8-83 Per FLD

1/4"= 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

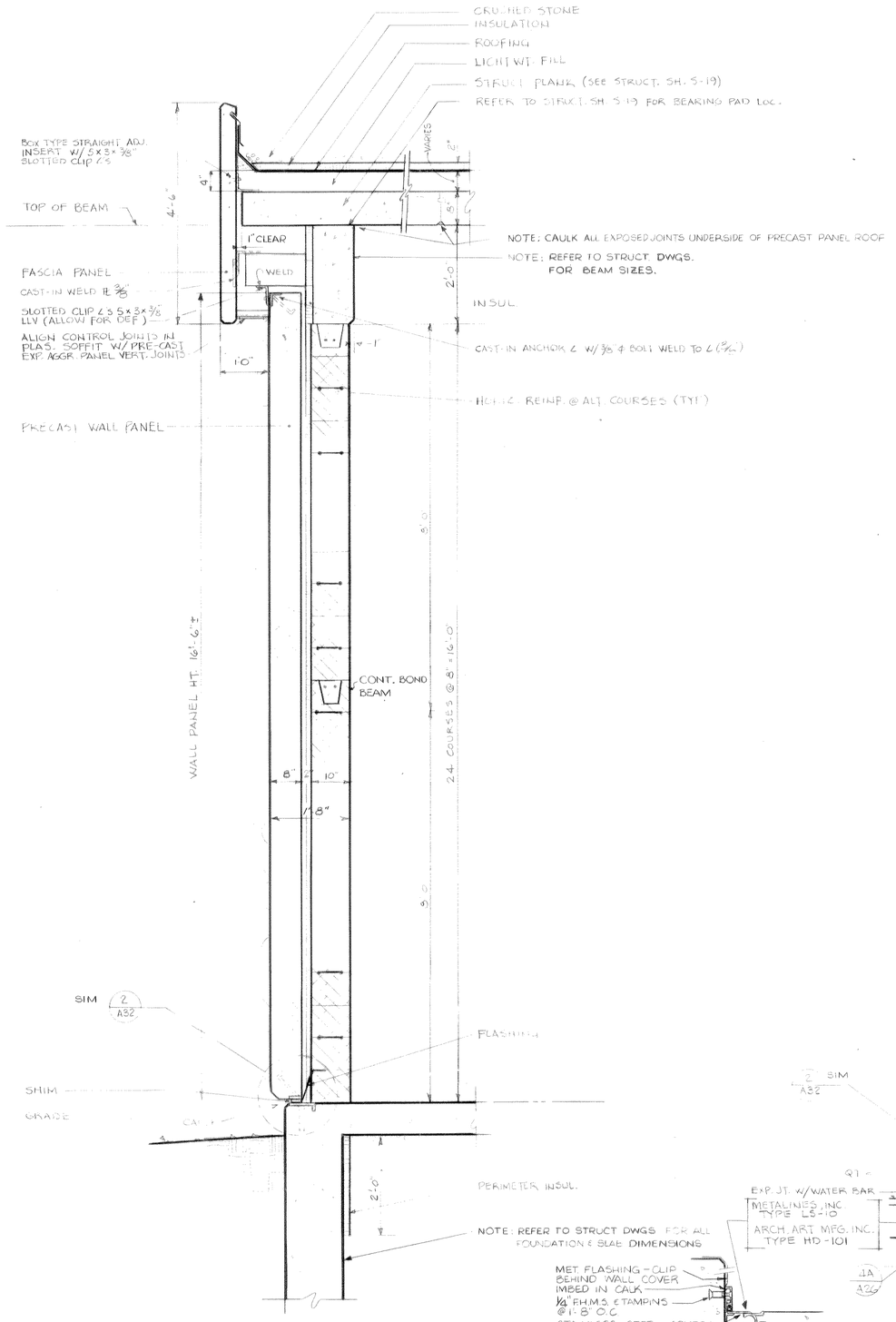
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	VA	2/24/78	GSD	SGB	2/24/78
1	FOR APPROVALS	LEW. VA	3/30/76	GSD	SGB	3/31/76

PROJECT SUPERVISOR: Richard A. Rowe APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BUILDING
ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-25



3/A24 WALL SECTION SCALE: 3/4" = 1'-0"

4A/A26 DETAIL SCALE: NONE

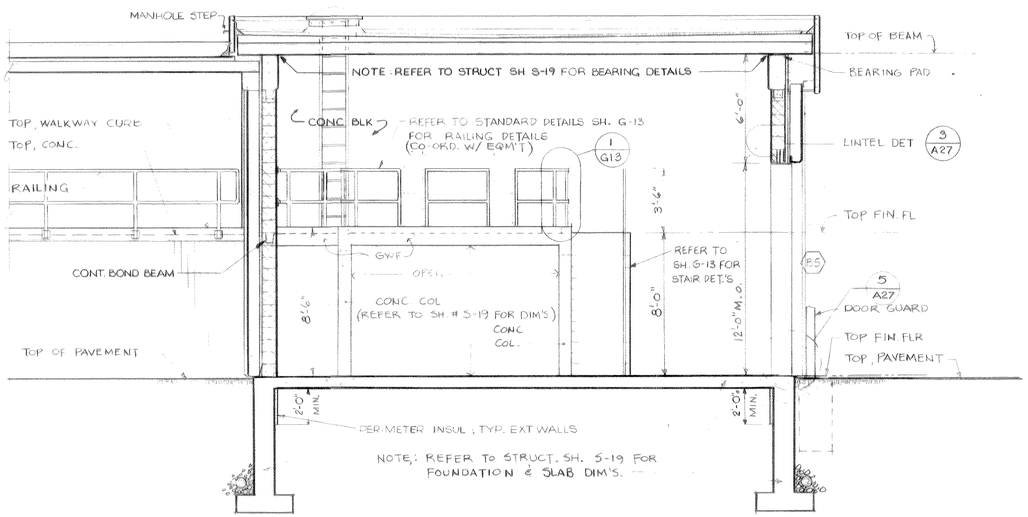
4/A24 DETAIL SCALE: 3/4" = 1'-0"

1/A24 BUILDING SECT. SCALE: 1/4" = 1'-0"

NOTES:
1. @ T. FLOOR & BASE @ MEZZ.
2. REFER TO STRUCT. SH. S-17 FOR CONC. SLOPE.

3/4" = 1'0" 1 0 1 2 3

1/4" = 1'0" 2 0 2 4 6 8 10



2/A24 BUILDING SECTION SCALE: 1/4" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION				SCB	4/24/78
	GSD, VA	2/24/78	GSD	RAR		
1	FOR APPROVALS				SCB	3/31/76
	VA LEW	3/30/76	GSD	RAR		

PROJECT SUPERVISOR: APPROVED S. C. Bristow

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BUILDING
BUILDING SECTIONS & WALL SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A-26

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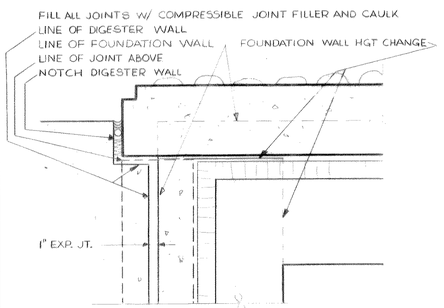
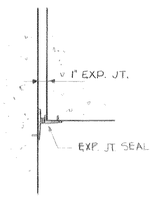
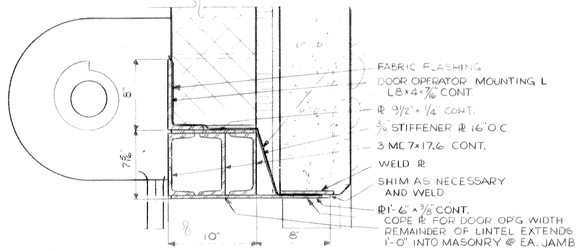


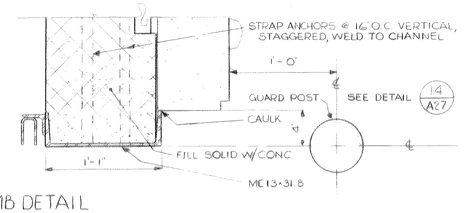
1 / A24 PLAN DETAIL CORNER
SCALE: 1½" = 1'-0"



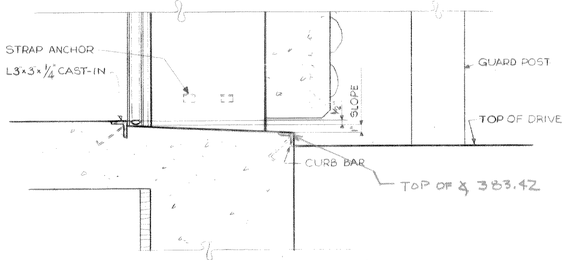
2 / A24 PLAN DETAIL
SCALE 1½" = 1'-0"



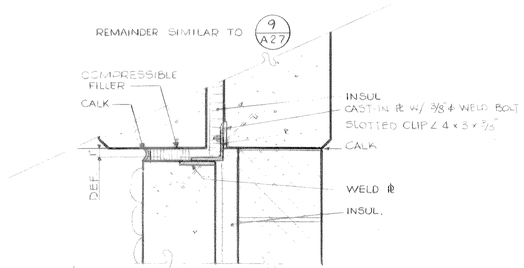
3 / A26 SECTION DETAIL HEAD
SCALE 1½" = 1'-0"



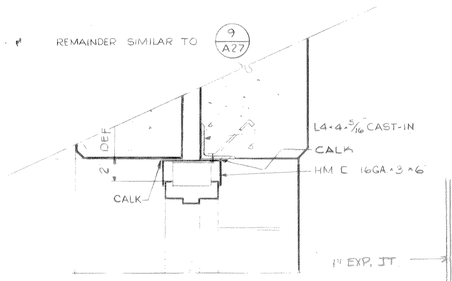
4 / A24 JAMB DETAIL
SCALE: 1½" = 1'-0"



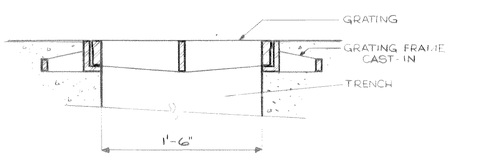
5 / A26 SECTION DETAIL
SCALE: 1½" = 1'-0"



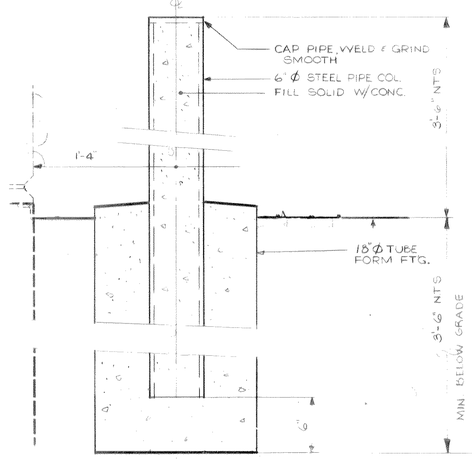
6 / A25 SECT. DETAIL
SCALE: 1½" = 1'-0"



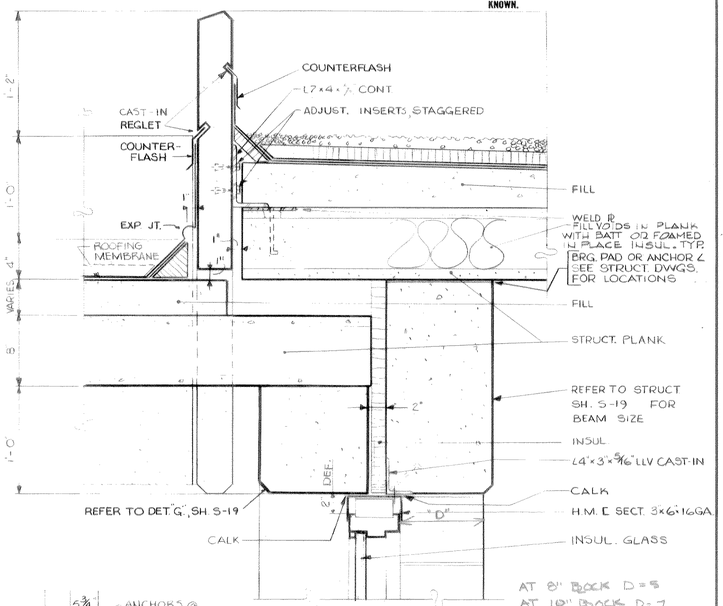
7 / A25 SECT. DETAIL
SCALE: 1½" = 1'-0"



13 / A24 SECT. DET.: TRENCH W/ GRATING

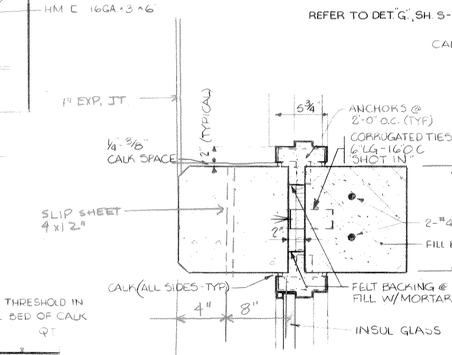


14 / A27 GUARD POST DET.
SCALE: 1½" = 1'-0"

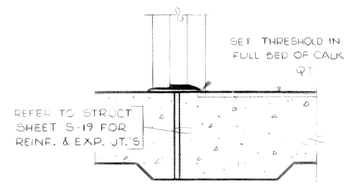


AT 8" BLOCK D = 5
AT 10" BLOCK D = 7
AT 12" BLOCK D = 6½"
A-32

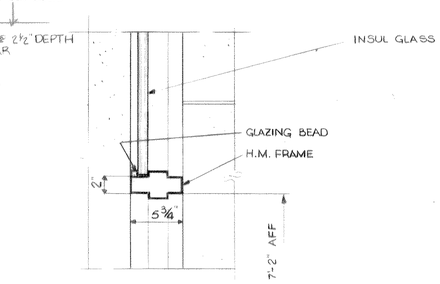
9 / A25 SECT DETAIL
SCALE: 1½" = 1'-0"



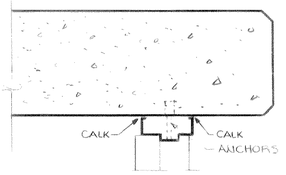
8 / A25 JAMB DET
SCALE 1½" = 1'-0"



10 / A25 SECT. DET.
SCALE: 1½" = 1'-0"



12 / A25 SECT. DET.
SCALE: 1½" = 1'-0"



11 / A25 JAMB DET
SCALE 1½" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

1½" · 1'0" 1 6 0 1

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				KLS	9/8/83
2	AEF		GFM		SLB	8/24/78
1	VA	2/24/78	GSD	FAR	SLB	3/31/76
	FOR APPROVALS					
	VA	3/30/76	GSD	FAR	SLB	3/31/76

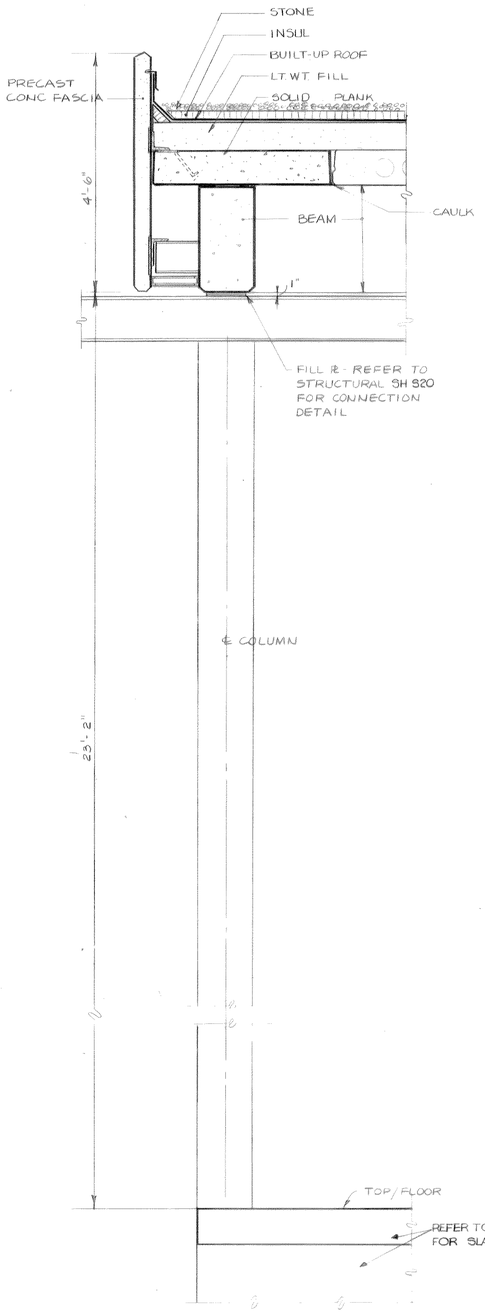
PROJECT SUPERVISOR: Richard A. Post
APPROVED: S. G. Brisbin

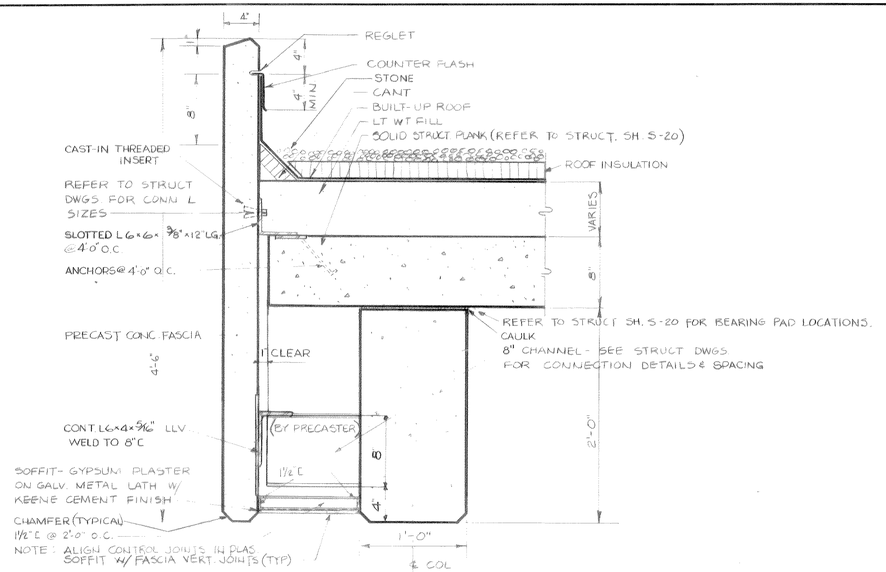
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BUILDING
MISCELLANEOUS DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

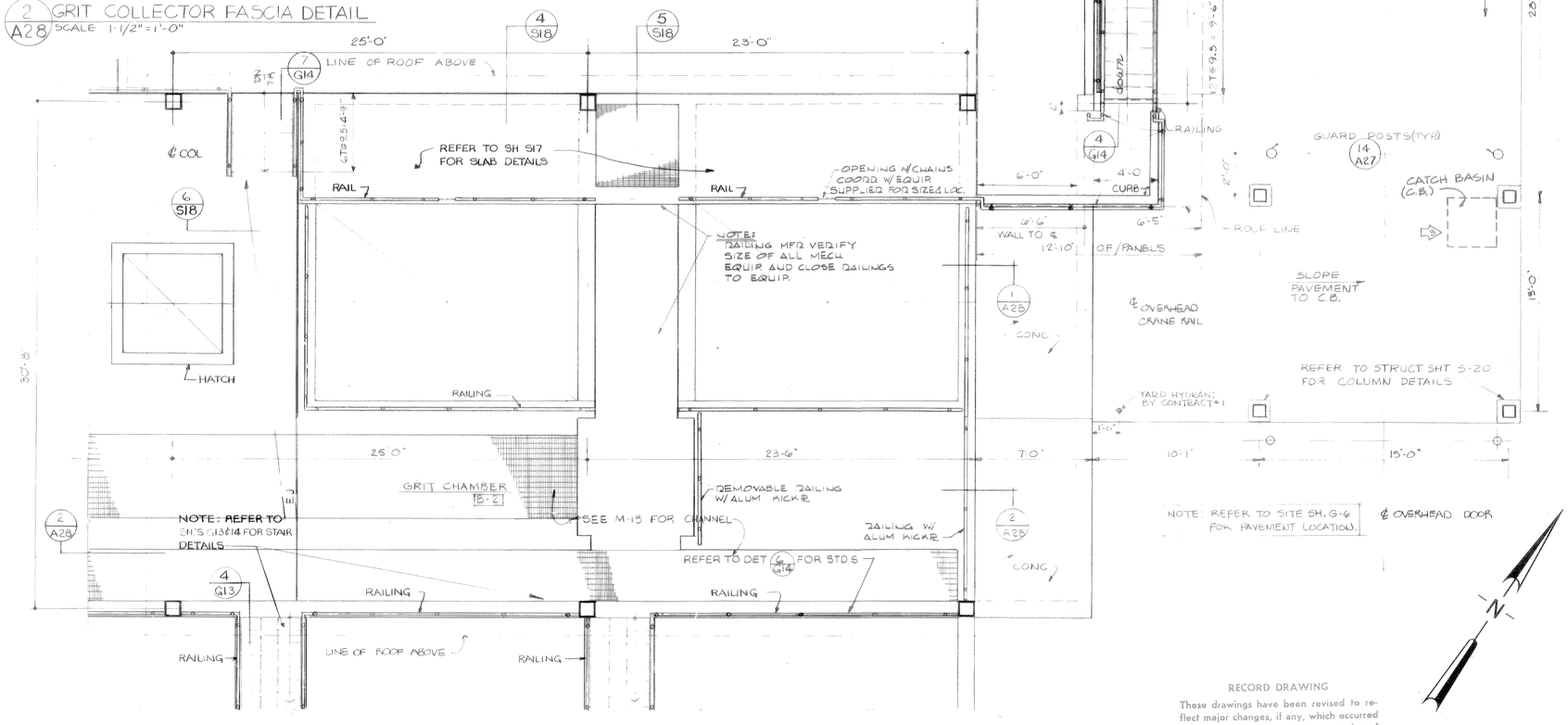
JOB NO. 577 | CONTRACT NO. 1. | SHEET A-27

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





2 / A28 GRIT COLLECTOR FASCIA DETAIL
SCALE 1-1/2" = 1'-0"



PLAN
SCALE: 1/4" = 1'-0"

1 / A28 SECTION DETAIL - GRIT COLLECTOR
SCALE 3/4" = 1'-0"

1/4" = 1'-0" 2 0 2 4 6 8 10'
1/2" = 1'-0" 1 6 0 1
3/4" = 1'-0" 1 0 1 2 3

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RECORD DRAWING
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Date 9-8-83 Per FLD

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHEELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD GFM		GFM		JLS	9/8/83
2	APPROVED FOR CONSTRUCTION NSF 2/24/78		GSD	RAR	SGB	4/24/78
1	FOR APPROVALS LEW VA 3/30/76		GSD	RAR	SGB	3/31/76

PROJECT SUPERVISOR: Richard Rose APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT CHAMBER
PLAN
STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.
JOB NO. 577 CONTRACT NO. 1 SHEET A-28

NOTE:
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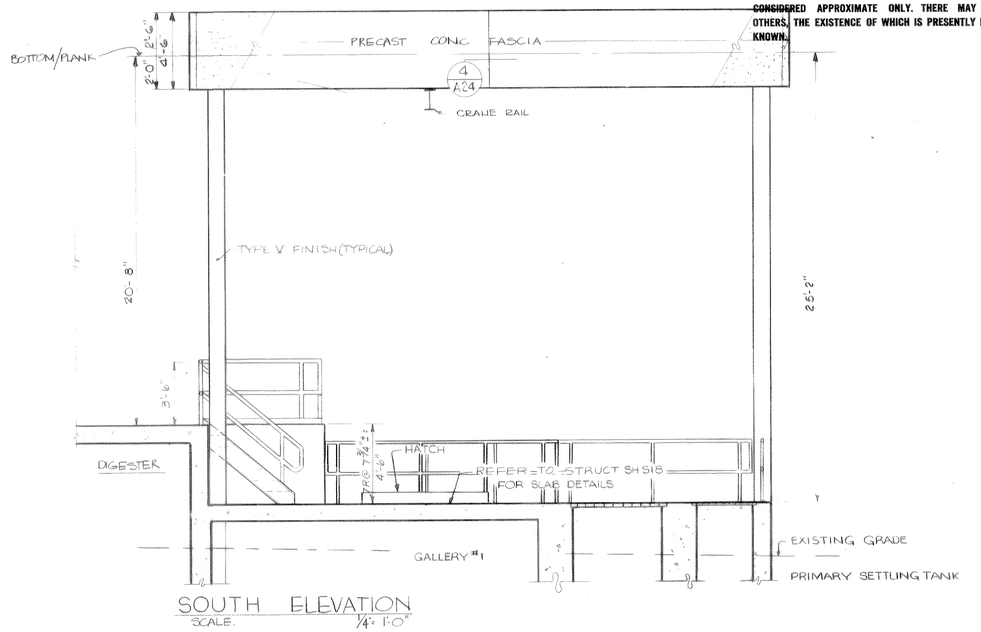
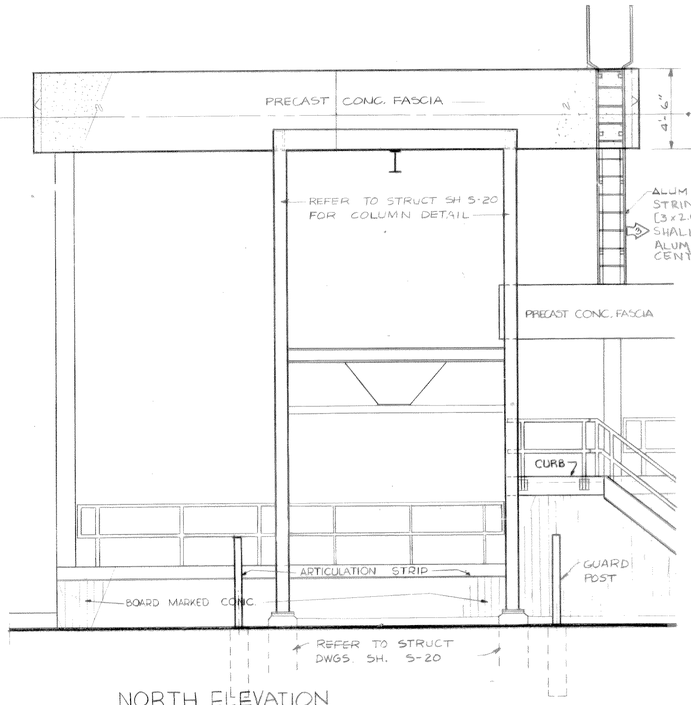
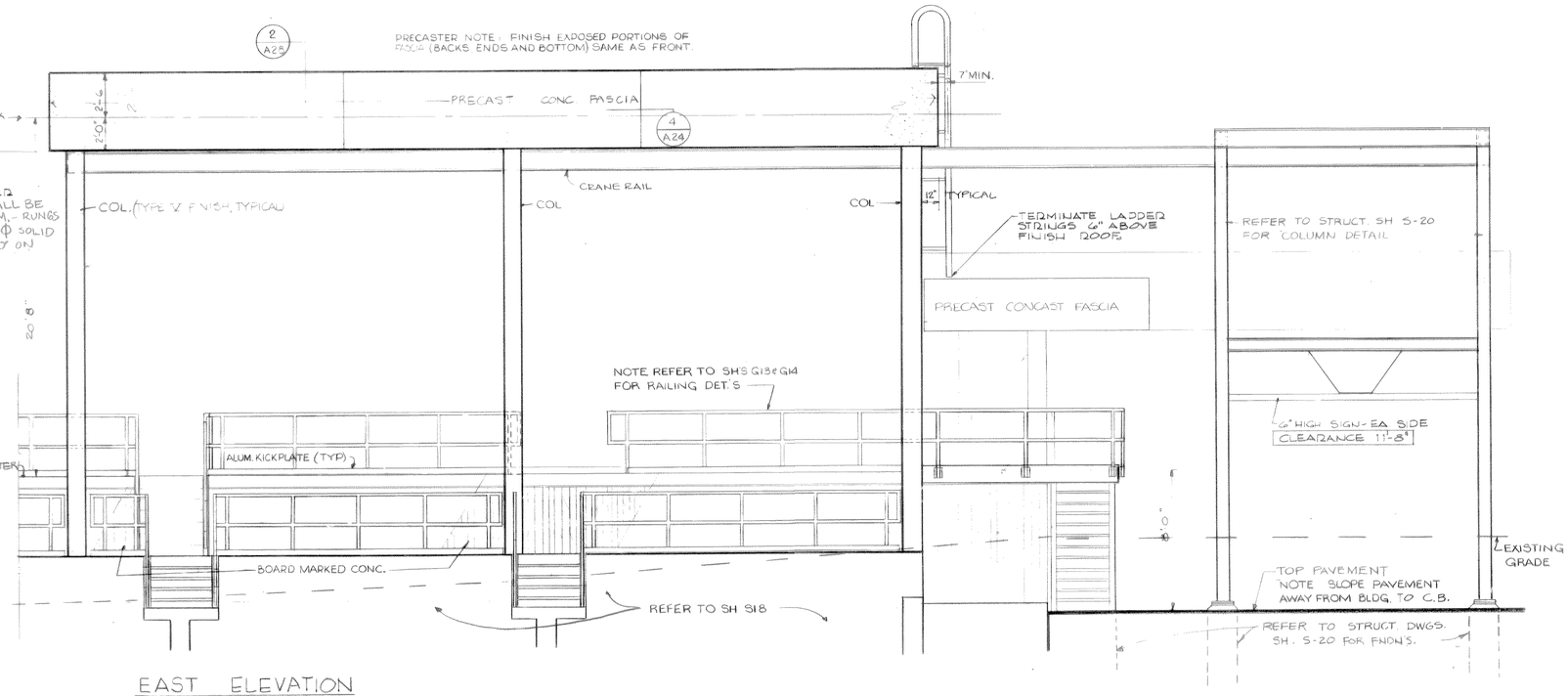


SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



NORTH ELEVATION
SCALE 1/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"

1/4" = 1'-0" 2 0 2 4 6 8 10

RECORD DRAWING

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Date 9-8-83 Per FLD

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF	6PM			RLS	9/16/83
2	APPROVED FOR CONSTRUCTION NSF	12/24/81	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS LEW	3/30/76	GSD	RAR	SGB	3/31/76

PROJECT SUPERVISOR: Richard A. Russ
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT CHAMBER
ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-29

NOTE:
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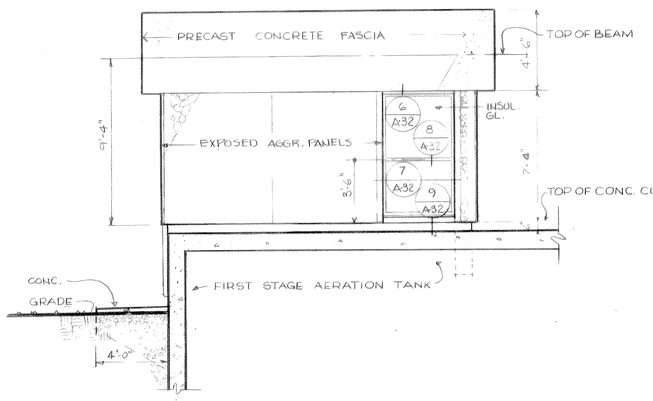
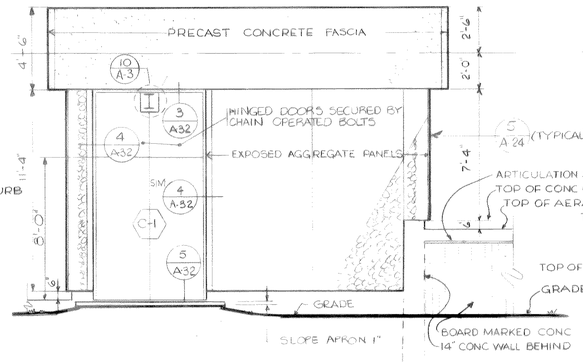
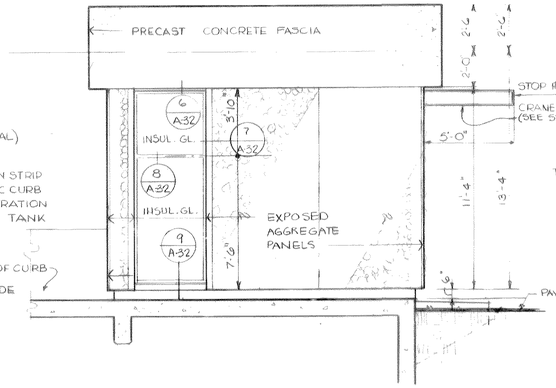


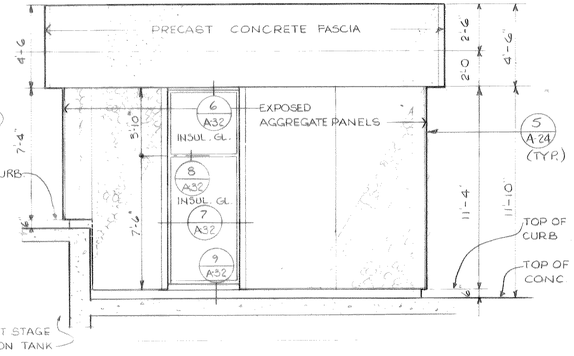
NORTH ELEVATION
SCALE: 1/4" = 1'-0"



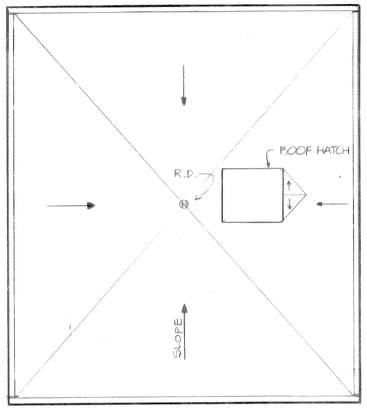
EAST ELEVATION
SCALE 1/4" = 1'-0"



SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

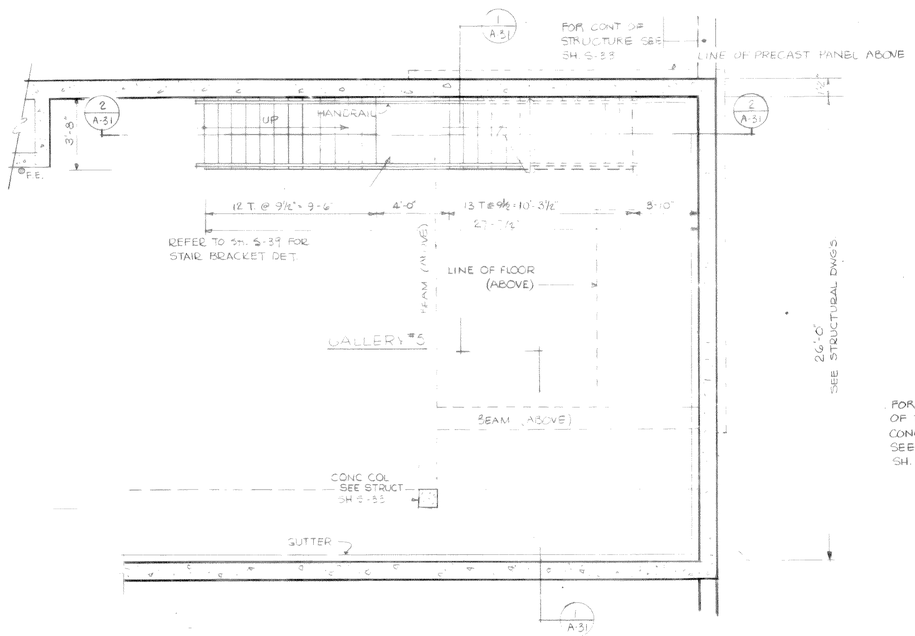


WEST ELEVATION
SCALE: 1/4" = 1'-0"

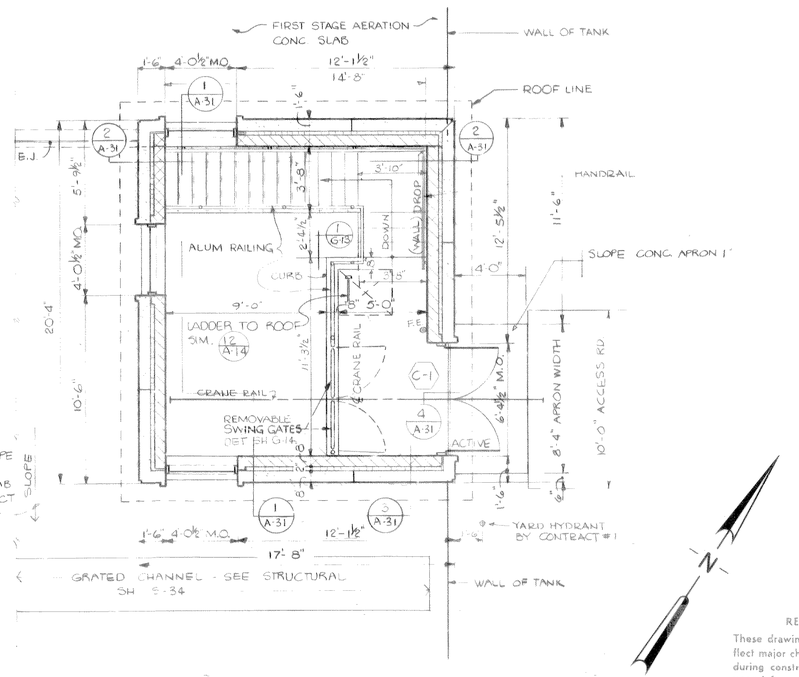


NOTE: LIGHTWEIGHT FILL IS 5" DEEP @ MAX AND 1" DEEP @ MIN.

ROOF PLAN
SCALE: 1/4" = 1'-0"



LOWER FLOOR PLAN
SCALE 1/4" = 1'-0"



UPPER FLOOR PLAN
SCALE 1/4" = 1'-0"

PRECAST AGGREGATE PANEL SUPPLIER NOTE: CO-ORDINATE PLACEMENT OF ALL ELECTRICAL FIXTURES & OUTLETS IN PRECAST W/ELECT. DWGS.

RECORD DRAWING
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Date 9-8-83 Per F&D

1/4" = 1'0" 2 0 2 4 6 8 10

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A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION				SGB	9/24/78
1	VA 10/24/78 GSD RAR FOR APPROVALS				SGB	3/31/76
	VA PMS 3/30/76 GSD RAR					

PROJECT SUPERVISOR S.G. Brisbin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ENTRANCE STRUCTURE / GALLERY NO. 5
PLANS & ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-30

NOTE:
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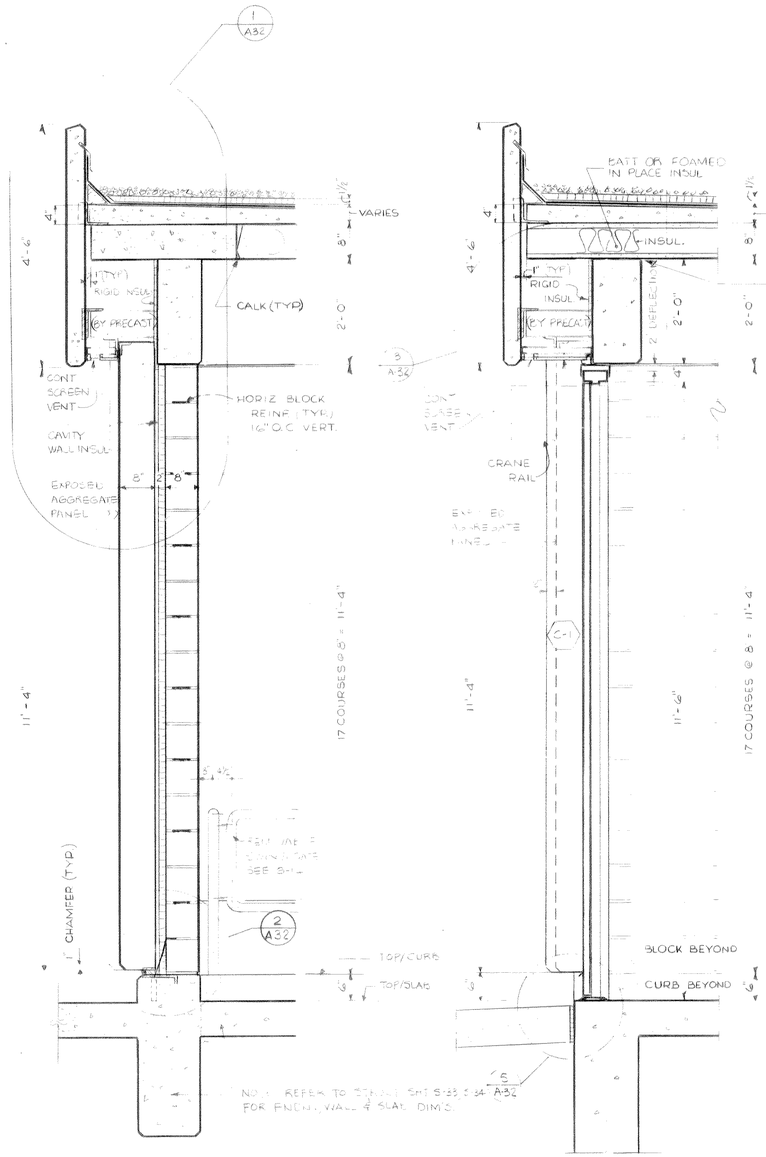

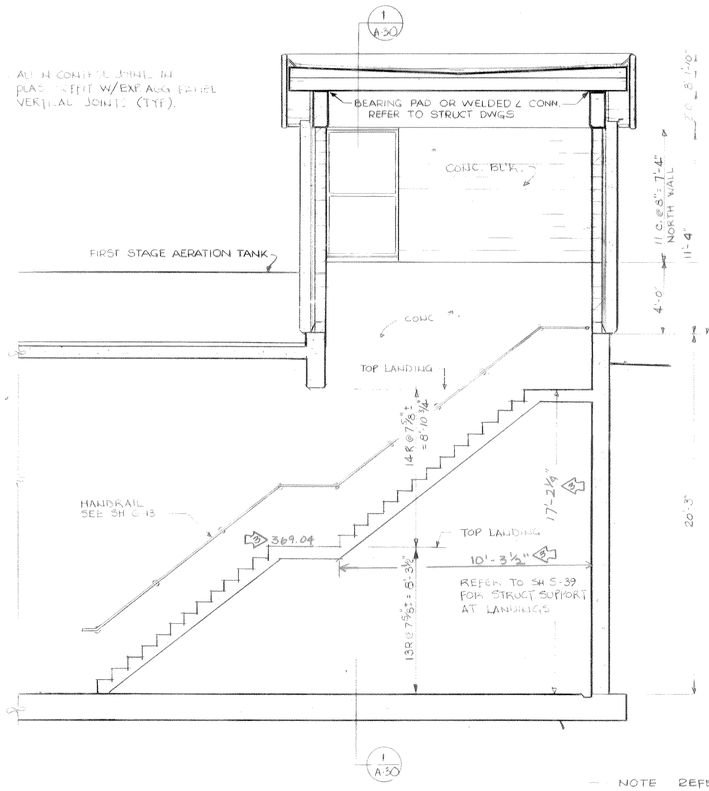

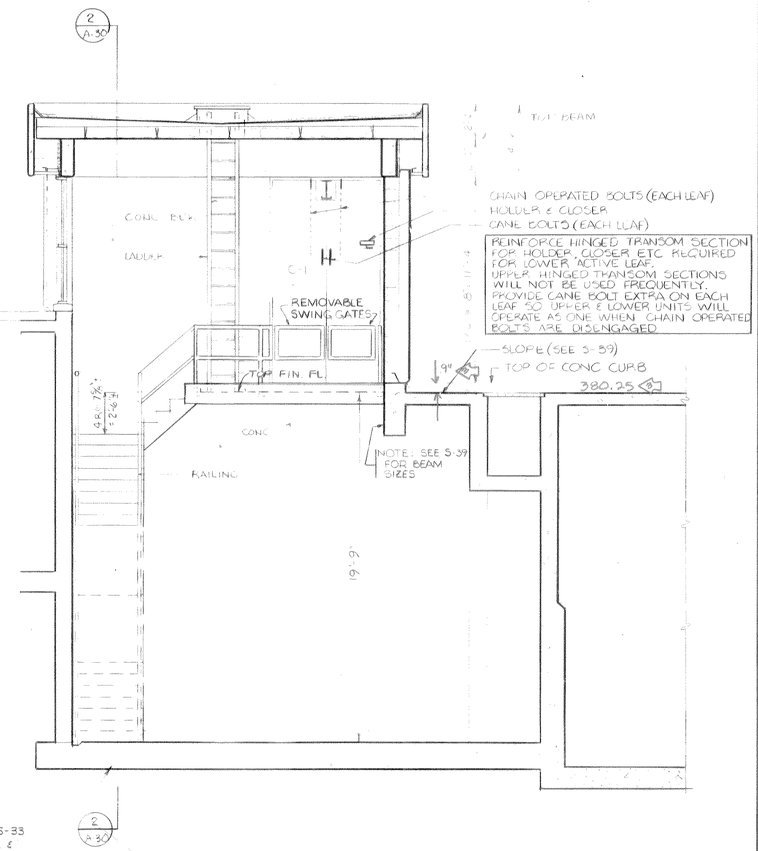

WALL SECTION 3/A30

WALL SECTION 4/A30

BUILDING SECTION 2/A30 SCALE 1/4"=1'-0"

BUILDING SECTION 1/A30 SCALE 1/4"=1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

3/4" = 1'0" 1 0 1 2 3

...is a violation of the New York State Education Law for any person ... acting under the ... to alter an item on this drawing ... engineer shall affix ... and a specific description of the alteration.

RECORD DRAWING
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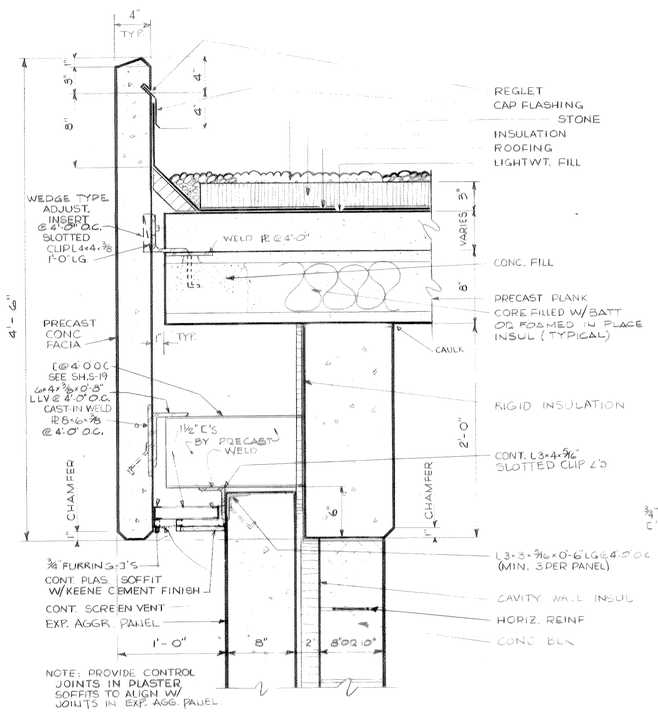
Date 9-8-83 Per F.L.D.

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF			SFM		KLS	9/8/83
2	APPROVED FOR CONSTRUCTION LEW	6/24/78		GSD	PAF	SCB	6/24/78
1	FOR APPROVALS A PMS	3/30/76		GSD	PAF	SCB	3/31/76

PROJECT SUPERVISOR S.G. Bristin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ENTRANCE STRUCTURE / GALLERY NO. 5
BLDG. & WALL SECTIONS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

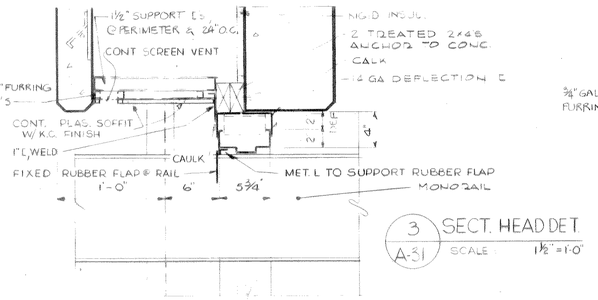
JOB NO. 577 CONTRACT NO. 1 SHEET A-31



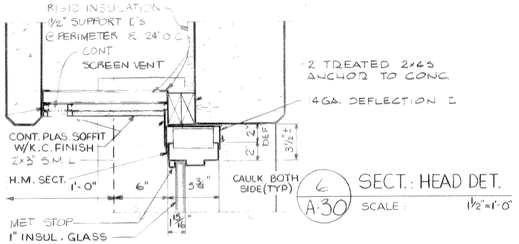
NOTE: PROVIDE CONTROL JOINTS IN PLASTER SOFFITS TO ALIGN W/ JOINTS IN EXP. AGG. PANEL

1 / A-31 FACIA DETAIL
SCALE: 1½" = 1'-0"

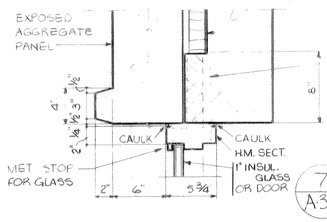
NOTE:
INSERTS AND BS IN POURED CONCRETE FOR PRECAST OR PRESTRESSED CONCRETE SHALL BE FURNISHED BY THOSE MANUFACTURERS TO G.C. FOR INSTALLATION.



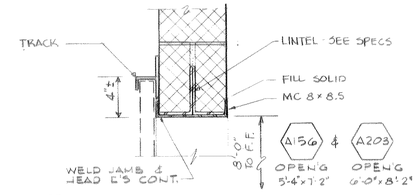
3 / A-31 SECT. HEAD DET.
SCALE: 1½" = 1'-0"



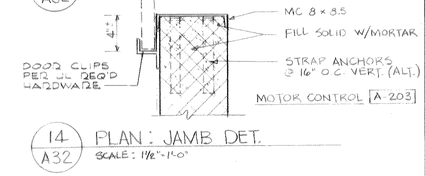
6 / A-30 SECT. HEAD DET.
SCALE: 1½" = 1'-0"



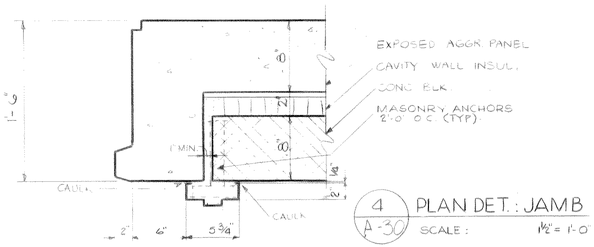
7 / A-30 PLAN: JAMB DET
SCALE: 1½" = 1'-0"



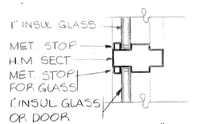
15 / A32 SECT: HEAD DET.
SCALE: 1½" = 1'-0"



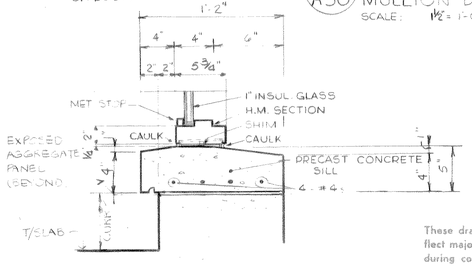
14 / A32 PLAN: JAMB DET.
SCALE: 1½" = 1'-0"



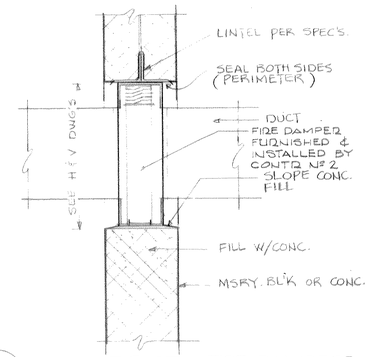
4 / A-30 PLAN DET.: JAMB
SCALE: 1½" = 1'-0"



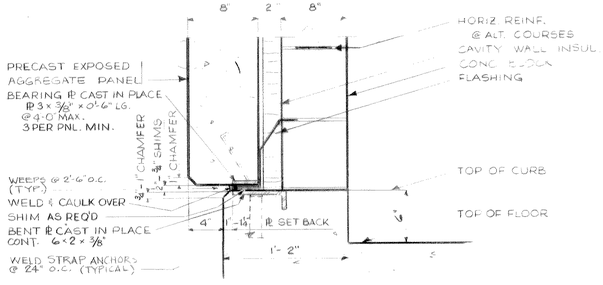
8 / A30 HORIZ & VERT. MULLION DET.
SCALE: 1½" = 1'-0"



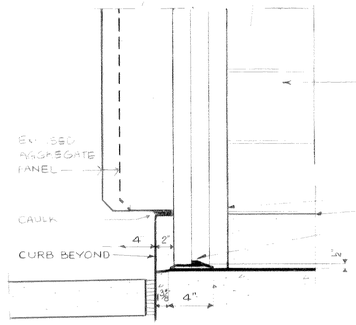
9 / A-30 SECTION: SILL DET
SCALE 1½" = 1'-0"



10 / A-32 TYP. DET SECT. @ FIRE DAMPERS
NO SCALE



2 / A-31 SECT.: TYP. EXT. WALL BASE
SCALE: 1½" = 1'-0"



5 / A32 SILL DET. SECT.
SCALE: 1½" = 1'-0"

HM FRAME
TOP OF CURB (SIM.)
CAST ALUMINUM THRESHOLD SET IN CONT BED OF CAULK

1½" = 1'-0"

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RECORD DRAWING
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Date 9-8-83 By FLD

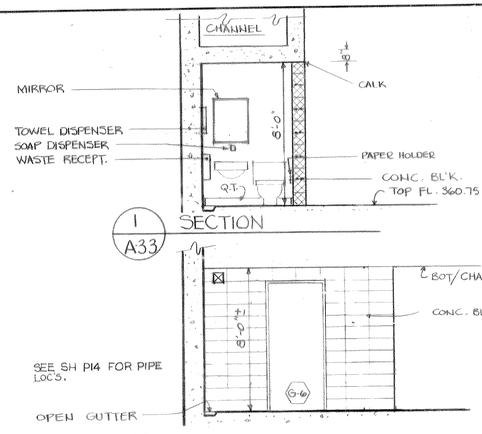
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	VA	2/24/78	GSD	RAR	SGB 2/24/78
1	FOR APPROVALS	VA	8/30/76	GSD	RAR	S.C.B 3/31/76

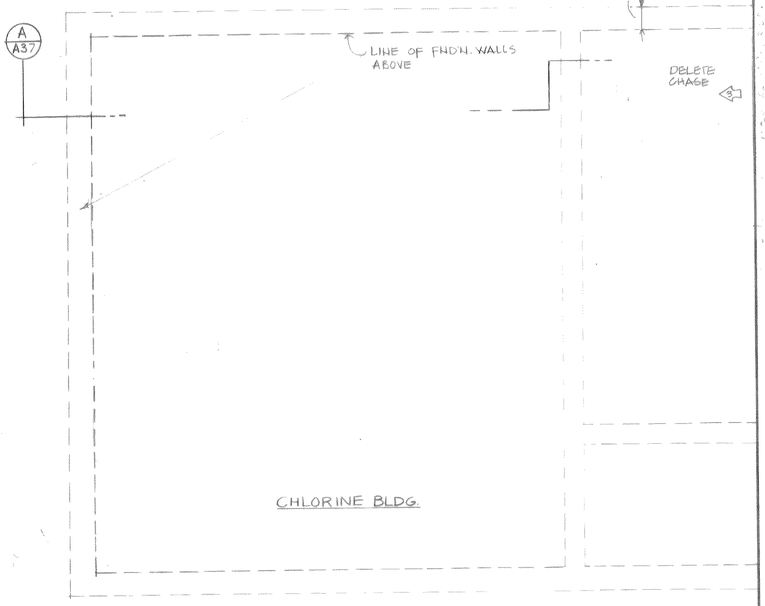
PROJECT SUPERVISOR: Richard A. Rowe
APPROVED: S.C. Baisley

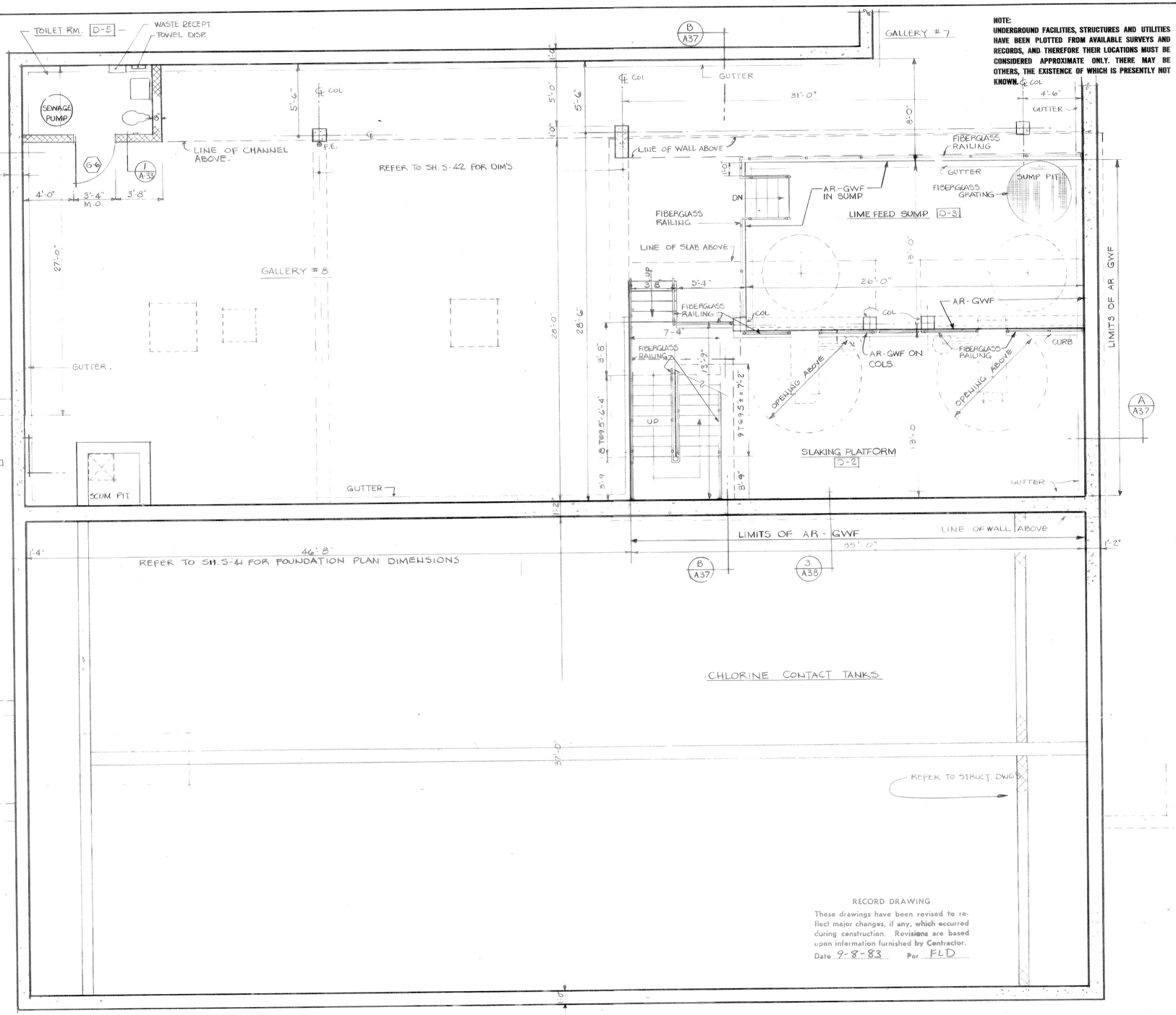
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ENTRANCE STRUCTURE / GALLERY NO. 5
MISCELLANEOUS DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET A-32







NOTE:
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1/4"=1'0" 2 0 2 4 6 8 10

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

WHEN NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
	NEF/GFM		GFM			
2	APPROVED FOR CONSTRUCTION				SGB	2/24/78
	GSD	12/24/78	GSD	PAR		
1	FOR APPROVALS				SGB	2/31/76
	GSD YA	5/30/76	GSD	PAR		

PROJECT SUPERVISOR: Richard A. Rice
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LIME BIN STORAGE
BASEMENT PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-33

NOTE:
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NOTE: REFER TO SH. S-43 FOR MONORAIL SUPPORT DETAILS.

NOTE: WARP & SLOPE CONC. TO PITCH TOWARD DRIVE.

PAVEMENT (SEE SH. G-6)

GUARD POST

6" HT. CONC. CURB

CONC. APRON

CONC. (REFER TO STRUCT. SH. S-41 FOR SLOPE)

8"ϕ GUARD POSTS SIM. DET. 14/A-27

CONC. C.J.

SKYLIGHT TYPE "F"

FAN

MONORAIL

M.H. FRAME & COVER

DELETE CHAGE

ROOF OP'G (SKYLIGHT)

ROOF OP'G (ROOF FAN)

REFER TO SH. H-8 FOR DUCTWORK

CHLORINE ROOM E-1

CHLORINE STORAGE E-2

RAILING (SEE SH. G-14)

CHLORINE CONTACT TANKS

LADDER UP TO ROOF HATCH SEE DET. 1/A-35

CONC. COL.

CONC. PAD

YARD HYDRANT BY CONTRACT No. 1

ROOF LINE

SEE SITE PLAN G-6 FOR PLANTINGS

REFER TO SH. S-41 FOR FOUNDATION PLAN DIMENSIONS

SECOND STAGE SETTLING

GALLERY # 7

CHANNEL

REMOVABLE FIBERGLASS RAILING

FIBERGLASS GRATING

FIBERGLASS RAILING

SWING GATE (FIBERGLASS)

LIME BIN STOR D-1

ALUMINUM RAILING

LADDER UP TO ROOF HATCH SKYLIGHT

LIMITS OF ARG'W.F. FLOOR TO UNDERSIDE OF ROOF SLAB

RAILING

VERTICAL REINF. IN MASONRY BLK (4) CONT. #4 RODS. FILL BLKS SOLID W/ CONC.

REFER TO SH. S-41 FOR FOUNDATION PLAN DIMENSIONS

NOTE: LIGHTWEIGHT FILL IS 5" THICK @ ROOF HIGH POINTS (MAX.) AND 1" THICK @ LOW POINT (MIN.)

CRANE RAIL

FORM CRICKETS AS REQ'D

CONC. DECK

SKYLT'S

ROOF HATCH

ROOF HATCH SKYLT.

CHLORINE BLDG.

LIME BIN STORAGE

ROOF PLAN

SCALE: 1/16" = 1'-0"

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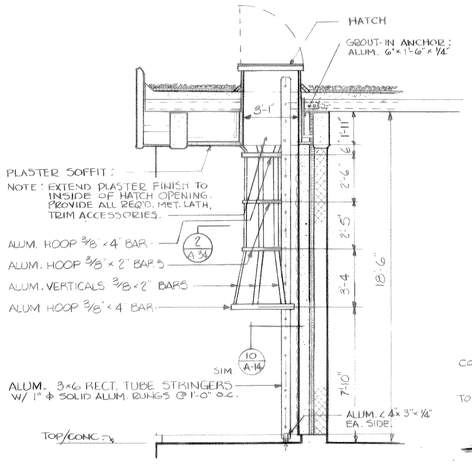
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF		SEM			KS	9/8/83
2	APPROVED FOR CONSTRUCTION VA	9/24/78	GSD		RAR	SGB	9/24/78
1	FOR APPROVALS GSD, PMS	9/30/76	GSD		RAR	S.B	9/30/76

PROJECT SUPERVISOR: Richard A. Rice
APPROVED: S.G. Brisbin

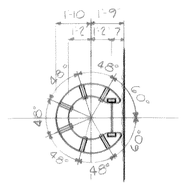
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING & LIME BIN STORAGE
GRADE LEVEL PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

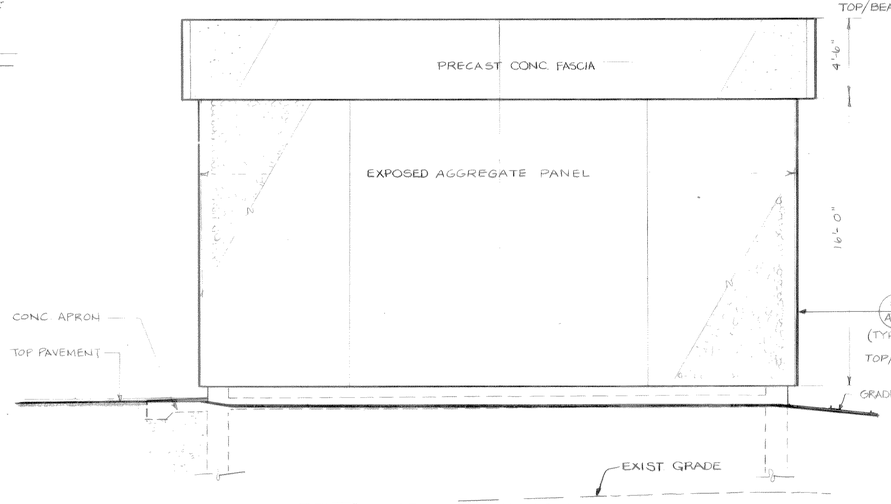
JOB NO. 577 CONTRACT NO. 1 SHEET A-34



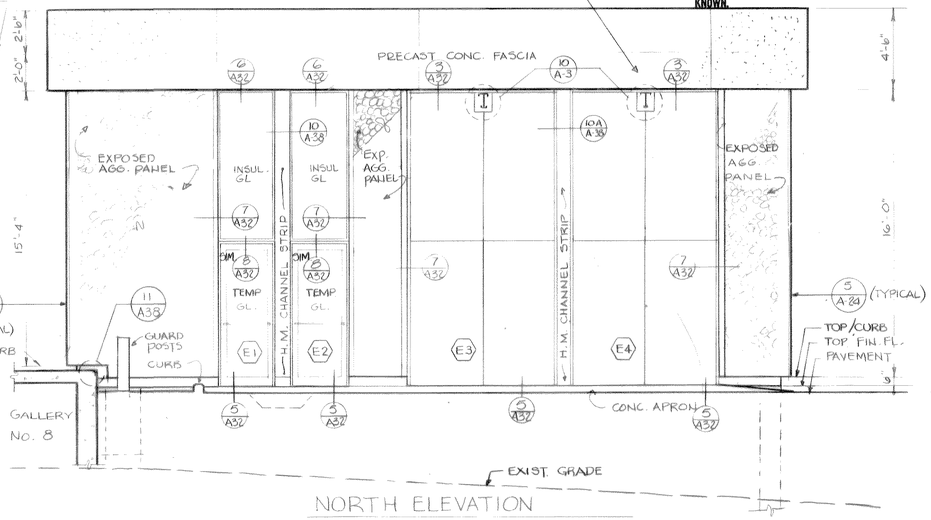
LADDER - SECT. DET (1 / A-34)
SCALE: 1/4"=1'-0"



LADDER-PLAN SECT. DET (2 / A-34)
SCALE: 1/4" = 1'-0"



WEST ELEVATION



NORTH ELEVATION

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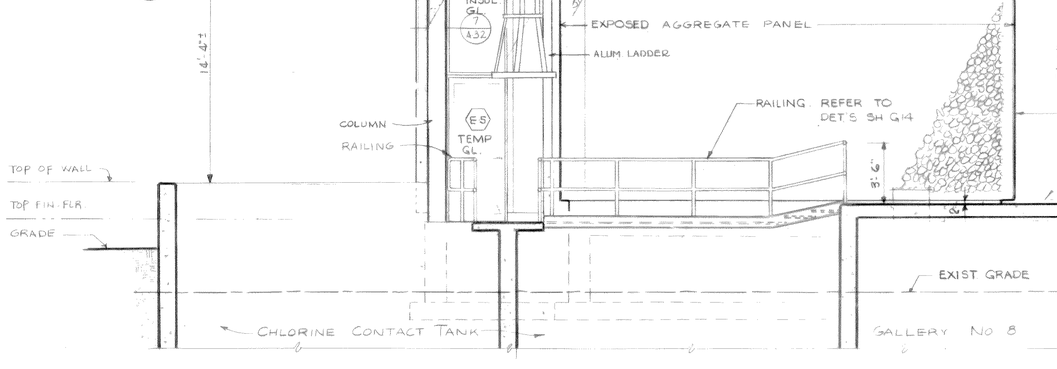
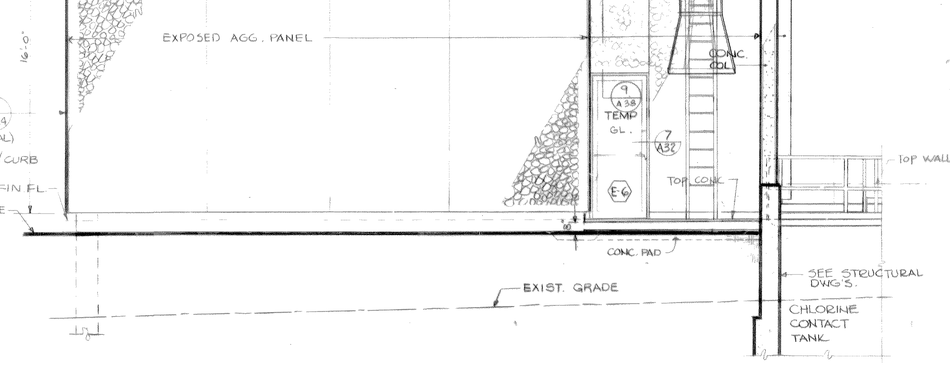


EAST ELEVATION



SOUTH ELEVATION

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Centractor
Date 9-8-83 Per FLD

PRECAST AGGREGATE PANEL SUPPLIER NOTE: CO-ORDINATE PLACEMENT OF ALL ELECTRICAL FIXTURES & OUTLETS IN PRECAST W/ ELECTRICAL DWG'S.

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

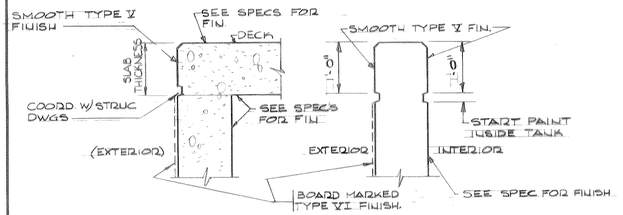
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION				S.G.B	2/24/78
	VA	2/24/78	GSD		RAB	
1	FOR APPROVALS				S.G.B	3/31/76
	PMS, VA	3/30/76	GSD		RAB	

PROJECT SUPERVISOR: Richard A. Rowe APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING
ELEVATIONS

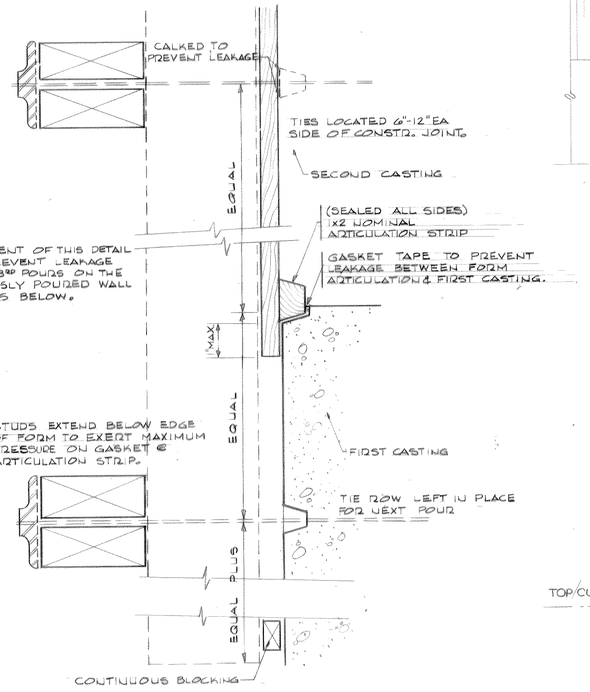
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-35



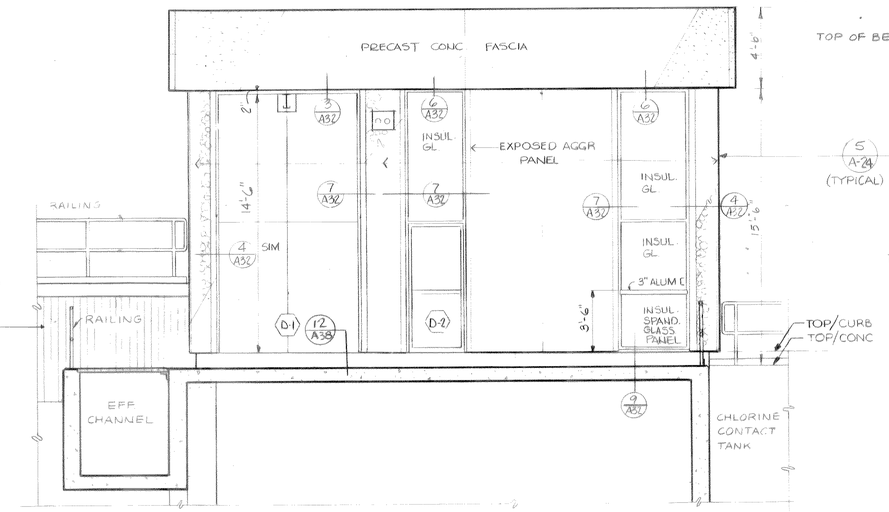
ARTICULATION STRIPS SECTION DETAIL (1 / A-39)

NOTE FIRST STRIP SHALL START 12" DOWN FROM TOP OF WALL WHICH HAS A SMOOTH RUBBED TYPE V FINISH. START TYPE VI BOARD MARKED FINISH JUST BELOW FIRST STRIP. NOTE THAT DEPENDING ON HEIGHT OF EXPOSED WALL, OTHER ARTICULATION STRIPS OCCURS 8'0" INTERVALS (OR AS SHOWN) DOWN THE WALL. OTHERWISE FIRST STRIP SHALL OCCUR @ THE BOTTOM OF THE DECK POUR

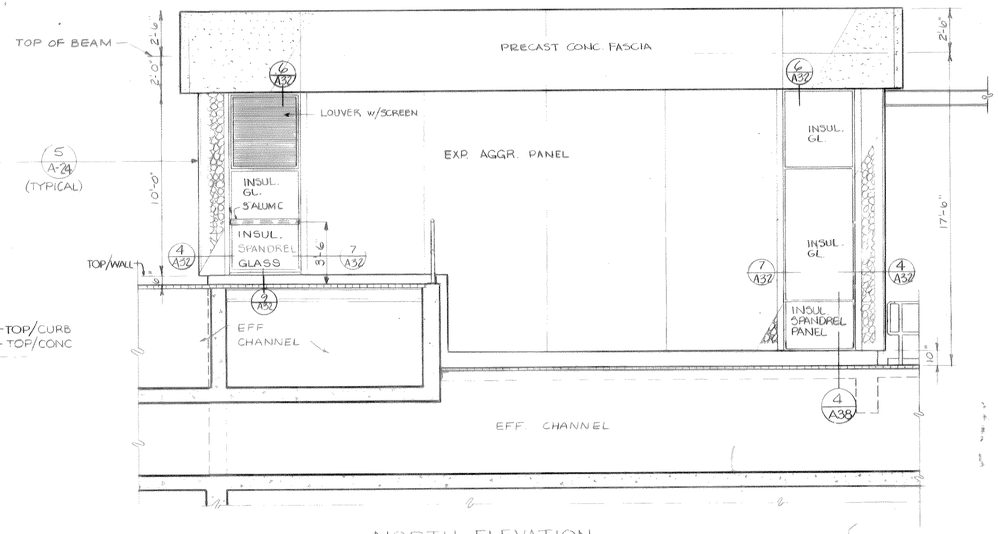


NOTE:
THE INTENT OF THIS DETAIL IS TO PREVENT LEAKAGE OF 2nd & 3rd POURS ON THE PREVIOUSLY POURED WALL SURFACES BELOW.

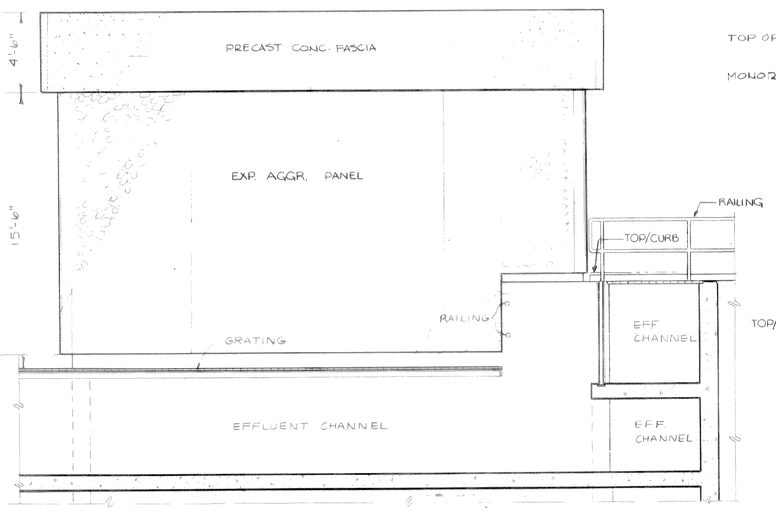
SECTION-CONSTRUCTION JOINT W/ ARTICULATION (2 / A39)



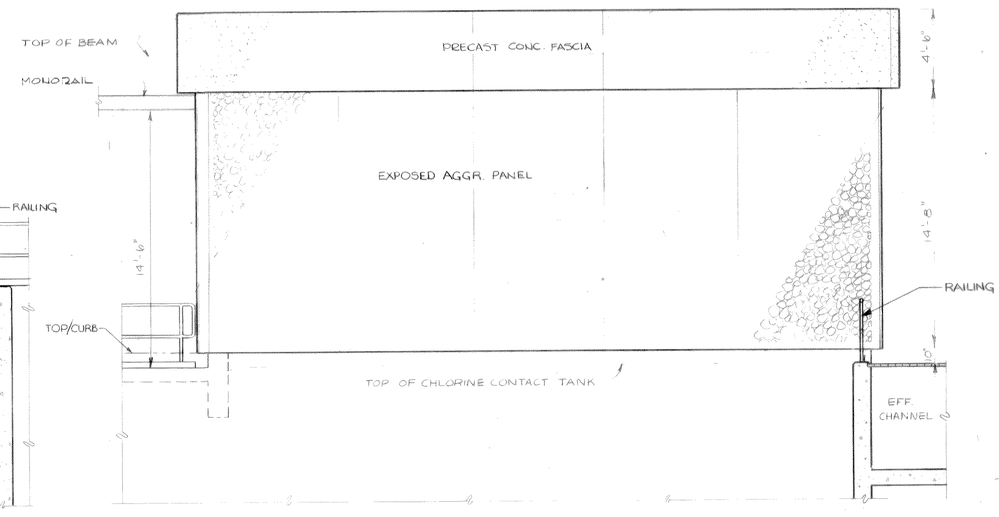
WEST ELEVATION



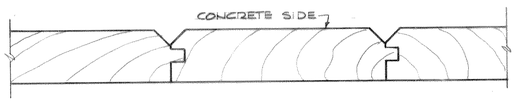
NORTH ELEVATION



EAST ELEVATION



SOUTH ELEVATION



TYPICAL FORM-LINER FOR TYPE VI, BOARD-MARKED FIN. (3 / A39)
FULL SIZE PROFILE

RECORD DRAWING
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Date 9-8-83 Per F.L.D

PRECAST AGGREGATE PANEL SUPPLIER NOTE: CO-ORDINATE PLACEMENT OF ALL ELECTRICAL FIXTURES & OUTLETS IN PRECAST W/ ELECTRICAL DWG'S.

1/4" = 1'0" 2 0 2 4 6 8 10

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

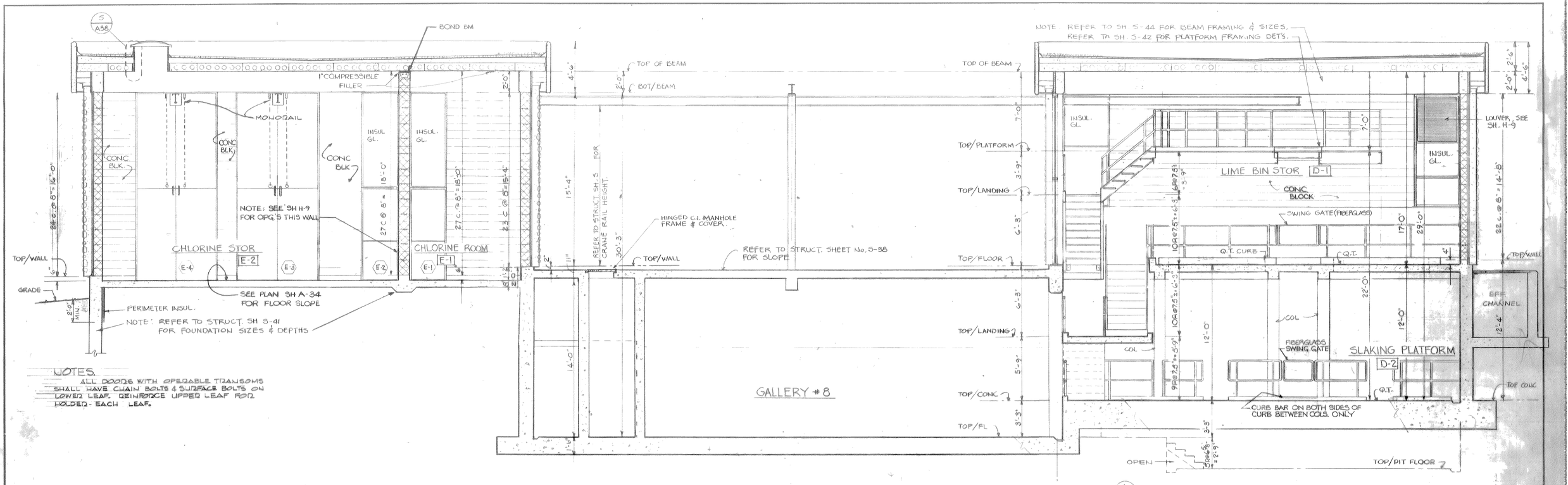
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				V.S	7/6/83
2	APPROVED FOR CONSTRUCTION	NSF	2/24/78	GSD	RAB	S.G.B	2/24/78
1	FOR APPROVALS	PMS.VA	9/30/76	GSD	RAB	S.G.B	9/30/76

PROJECT SUPERVISOR Richard A. Rivers APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LIME BIN STORAGE
ELEVATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

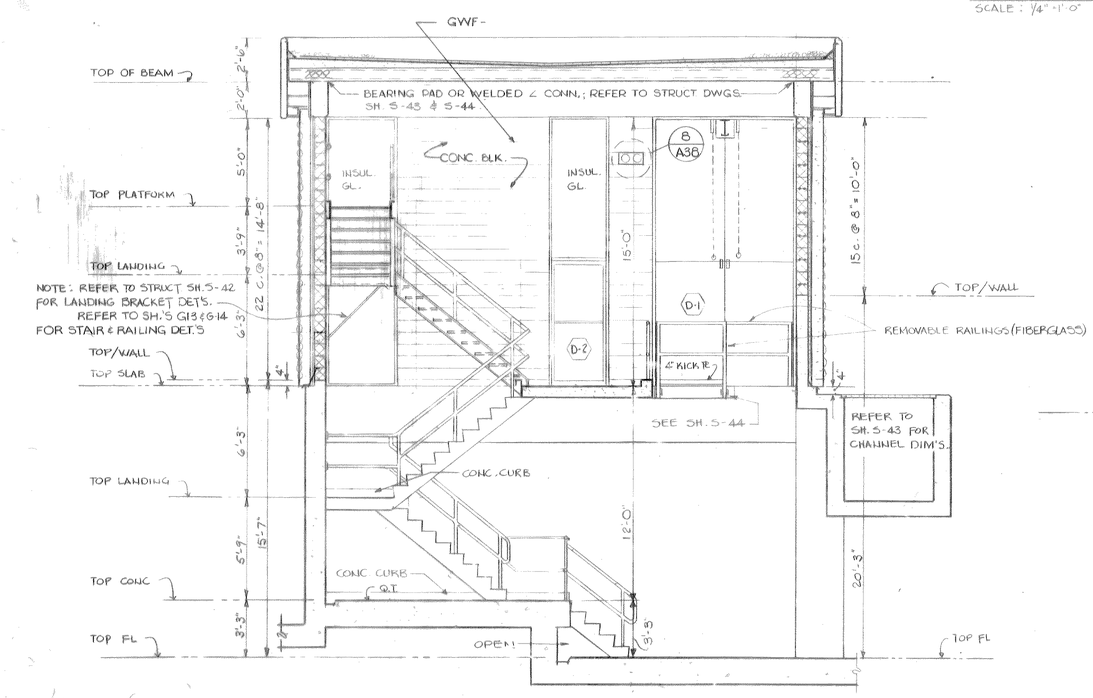
JOB NO. 577 CONTRACT NO. 1 SHEET A-36



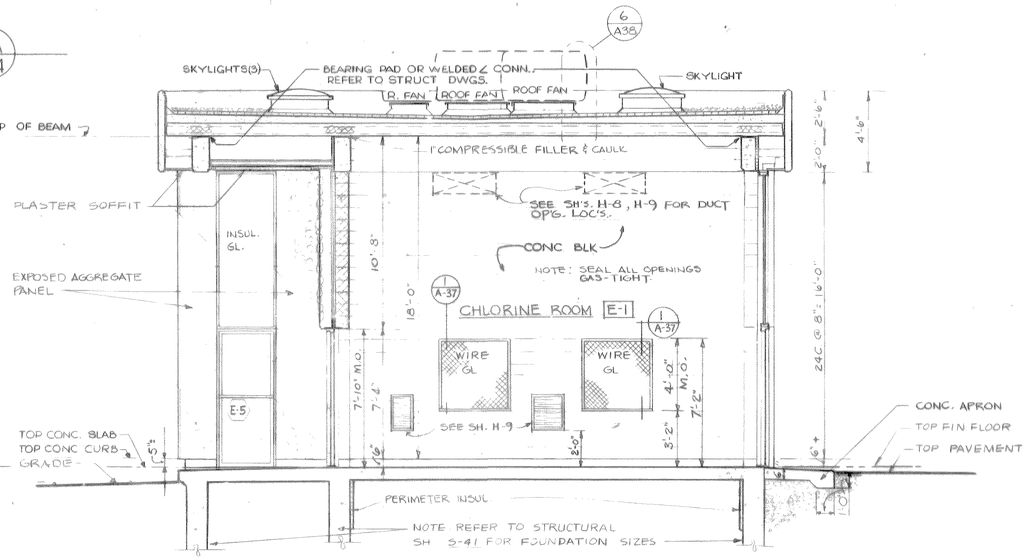
NOTES.

ALL DOORS WITH OPERABLE TRANSOMS SHALL HAVE CHAIN BOLTS & SURFACE BOLTS ON LOWER LEAF. REINFORCE UPPER LEAF FOR HOLDER - EACH LEAF.

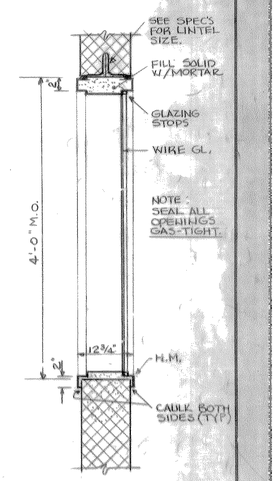
SECTION (A-A) A34
SCALE: 1/4" = 1'-0"



SECTION (B-B) A34
SCALE: 1/4" = 1'-0"



SECTION (C-C) A34
SCALE 1/4" = 1'-0"



1/A37 WINDOW SECT. DET.
NO SCALE

RECORD DRAWING

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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK

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S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

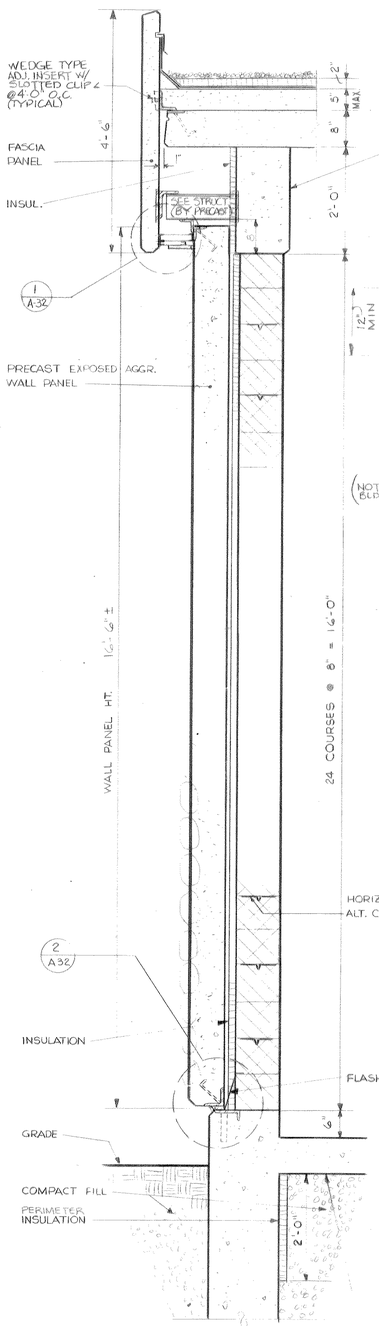
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				KS		7/8/83
2	APPROVED FOR CONSTRUCTION	VA	2/24/78	GSD	BAR	SGB	2/24/78
1	FOR APPROVALS	GSD	PMS 5/30/76	GSD	BAR	SGB	2/21/76

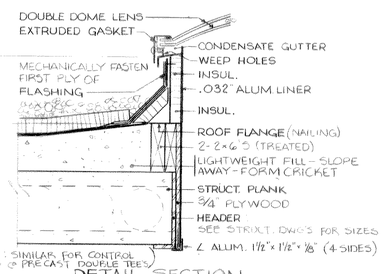
PROJECT SUPERVISOR Richard A. Rust APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING & LIME BIN STORAGE
BUILDING SECTIONS

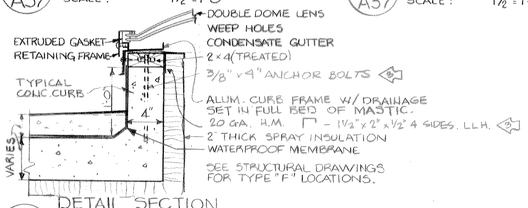
STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET A-37





5 A37 DETAIL SECTION TYPE "B" SKYLIGHT
SCALE: 1½"=1'-0"



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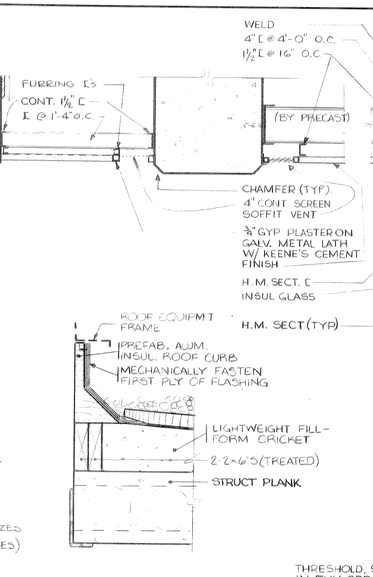
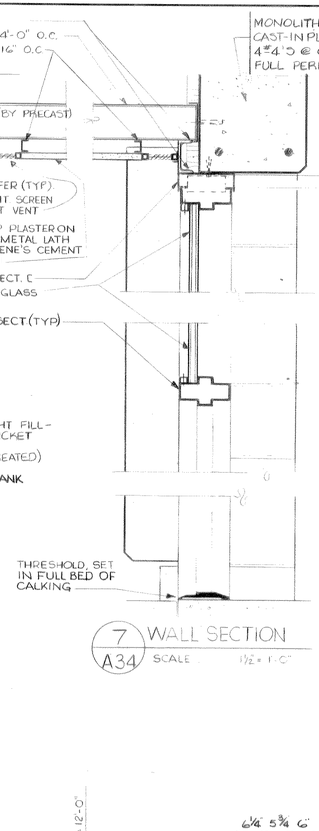


6 A37 ROOF OP'G DET
SCALE: 1½"=1'-0"



7 A34 WALL SECTION
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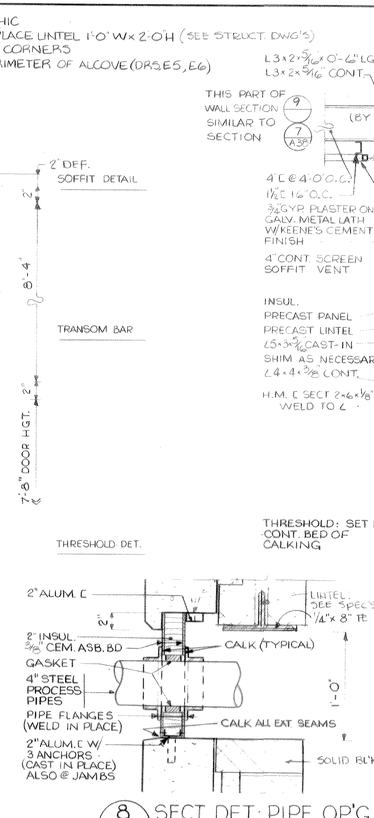
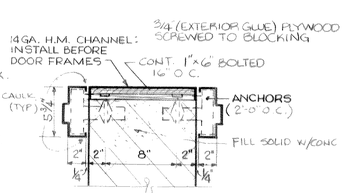
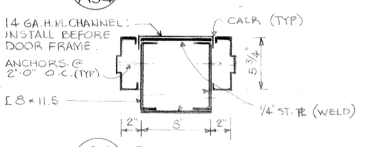


9 A34 WALL SECTION
SCALE: 1½"=1'-0"

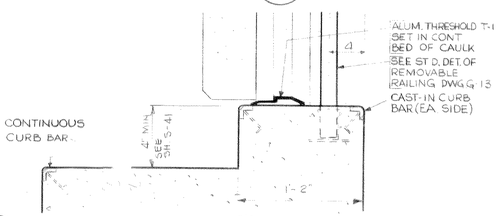
8 A37 SECT. DET.: PIPE OP'G
SCALE: ¼"=1'-0"



10 A34 PLAN DET. JAMB
SCALE: 1½"=1'-0"

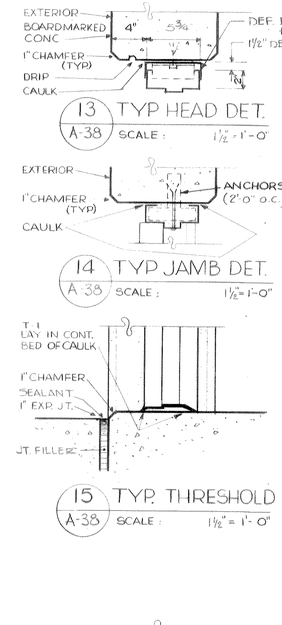


10A A34 PLAN DET. JAMB
SCALE: 1½"=1'-0"



11 A34 SECT.: DET. CURB
SCALE: 1½"=1'-0"

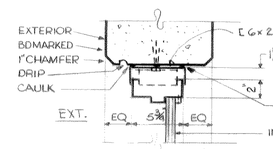
12 A34 SECT.: THRESHOLD DET
SCALE: 1½"=1'-0"



13 A-38 TYP HEAD DET.
SCALE: 1½"=1'-0"

14 A-38 TYP JAMB DET.
SCALE: 1½"=1'-0"

15 A-38 TYP. THRESHOLD
SCALE: 1½"=1'-0"



16 A-38 TYP. HEAD DET.
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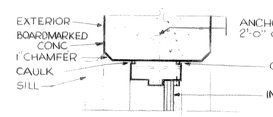
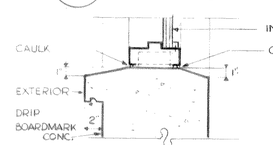


17 A-38 TYP. JAMB DET.
SCALE: 1½"=1'-0"



18 A-38 TYP. SILL DET.
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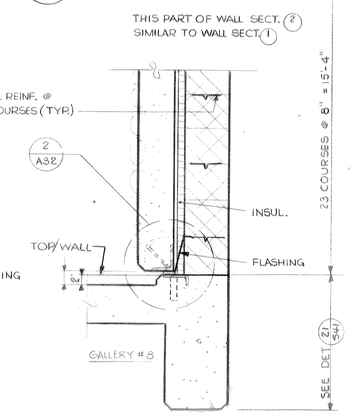
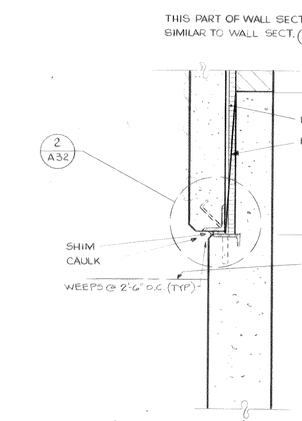
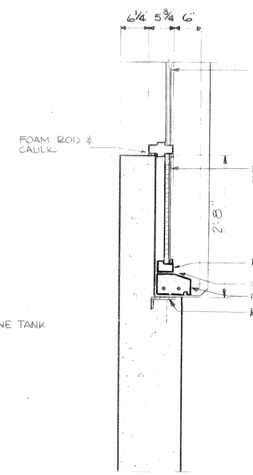


1 A34 WALL SECTION
SCALE: ¾"=1'-0"



2 A34 WALL SECTION
SCALE: ¾"=1'-0"

NOTE: REFER TO STRUCT. DWGS. FOR ALL FOUNDATION & SLAB DIMENSIONS



4 A-36 SECT. DETAIL
SCALE: ¾"=1'-0"

3 A34 WALL SECTION
SCALE: ¾"=1'-0"

1½"=1'0" 1 6 0 1
¾"=1'0" 1 0 1 2 3
¼"=1'0" 2 0 2 4 6 8 10

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

It is a violation of New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer or architect, to alter any item on this plan. If an item is altered, the altering engineer or architect shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

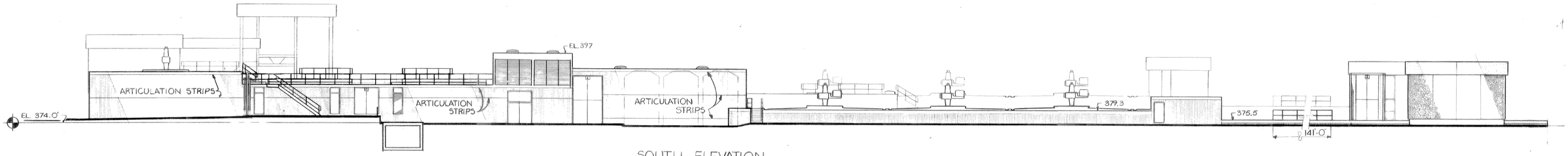
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	AEF/GPM		SFM		SCB	2/24/78
1	VA GSD	12/29/78	GSD	RAR		
	FOR APPROVALS					
	VA	3/30/76	GSD	RAR	SCB	3/31/76

PROJECT SUPERVISOR: APPROVED S. C. Bristor

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING & LIME BIN STORAGE
MISCELLANEOUS DETAILS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A-38

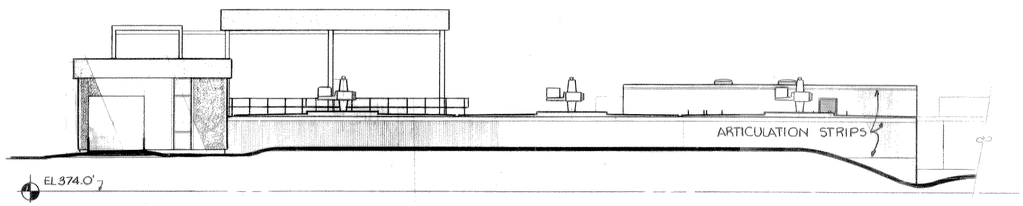
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



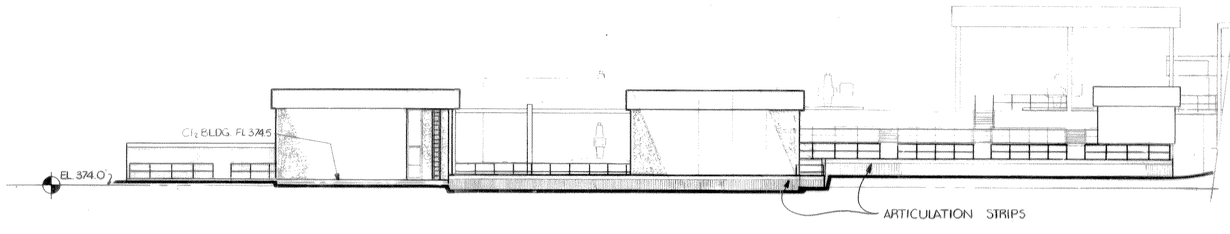
SOUTH ELEVATION

ARTICULATION STRIPS
NOTE FIRST STRIP SHALL START 12" DOWN FROM TOP OF WALL WHICH HAS A SMOOTH RUBBED TYPE V, START TYPE VI BOARD MARKED FINISH JUST BELOW FIRST STRIP. NOTE THAT DEPENDING ON HEIGHT OF EXPOSED WALL, OTHER ARTICULATION STRIPS OCCUR @ 8'-0" INTERVALS (OR AS SHOWN) DOWN THE WALL.

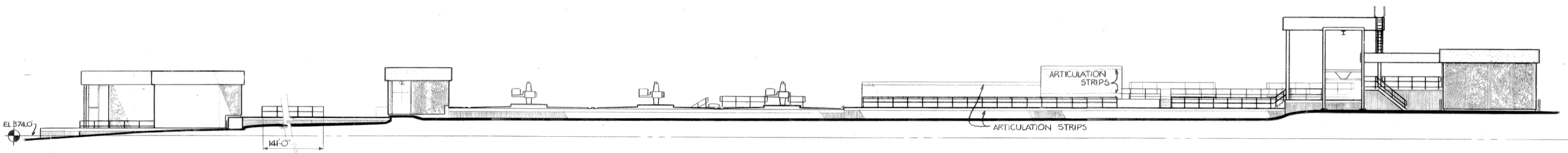
NOTE:
WHERE A TANK HAS WALLS WITH DIFFERENT ELEVATIONS TO TOP OF WALL - LOCATE THE ARTICULATION STRIP 1'-0" FROM THE TOP OF THE LOWER WALL AND MAINTAIN THAT ELEVATION ON ALL 4 INTERIOR WALLS OF TANK.



WEST ELEVATION



EAST ELEVATION



NORTH - ELEVATION

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per F&D

NOTE: ELEVATIONS SHOWN FOR GENERAL INFORMATION ONLY - SEE LARGE SCALE DRAWINGS FOR GREATER DETAIL

1/16" = 1'0" 16 8 0 16 32

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					KS	9/9/83
2	APPROVED FOR CONSTRUCTION	VA NSF	2/24/78	GSD	RAR	SGB	2/24/78
1	FOR APPROVALS	VA	9/30/76	GSD	RAR	SGB	9/30/76

PROJECT SUPERVISOR: Nicholas A. Rizzo
APPROVED: S.G. Bruton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE ELEVATIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET A 39

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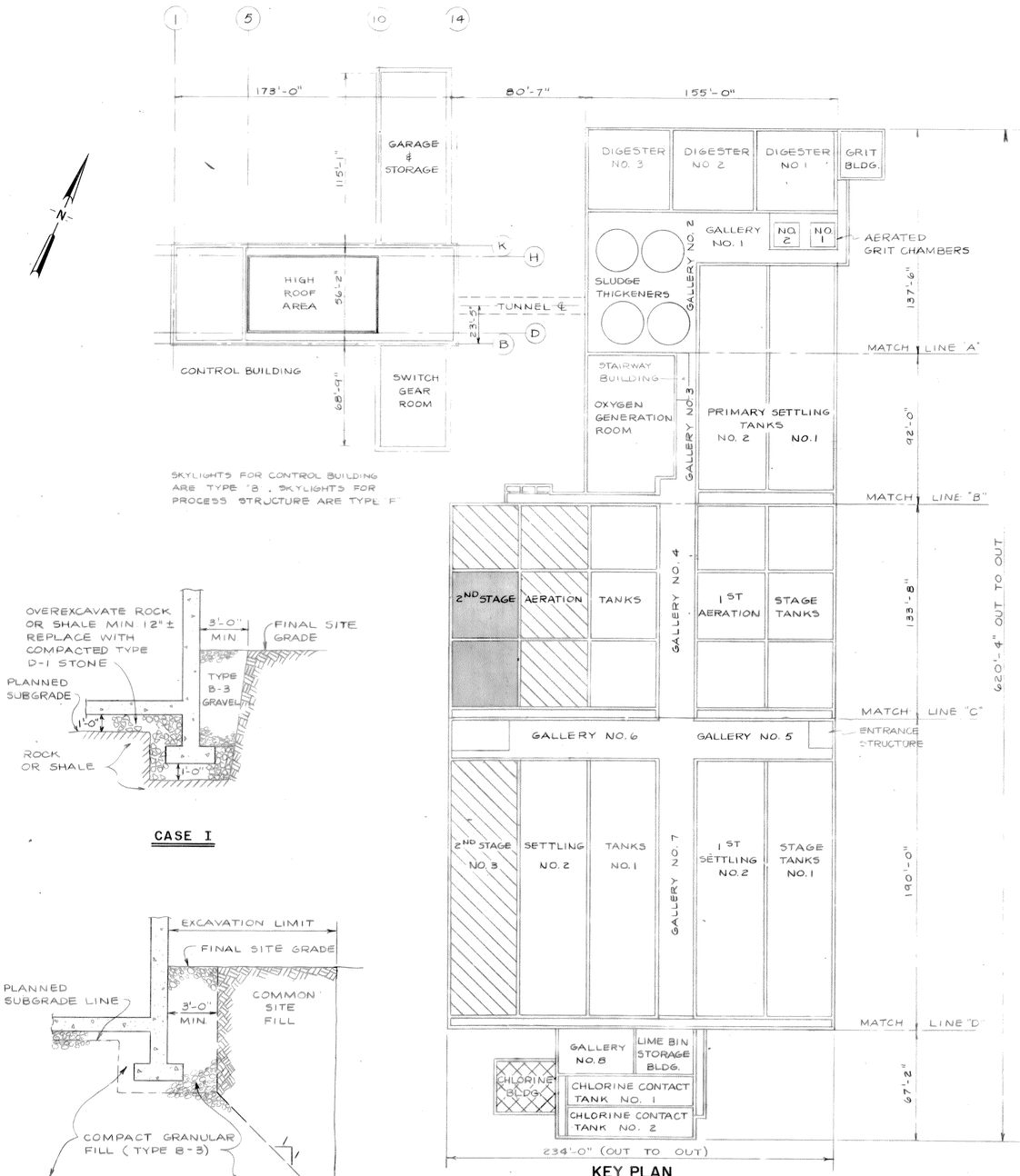
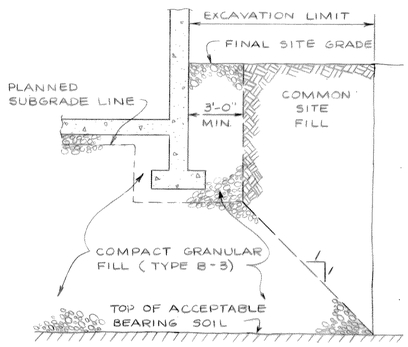
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SKYLIGHTS FOR CONTROL BUILDING ARE TYPE 'B'. SKYLIGHTS FOR PROCESS STRUCTURE ARE TYPE 'F'

KEY PLAN
SCALE 1"=40'-0"

CASE I



CASE II

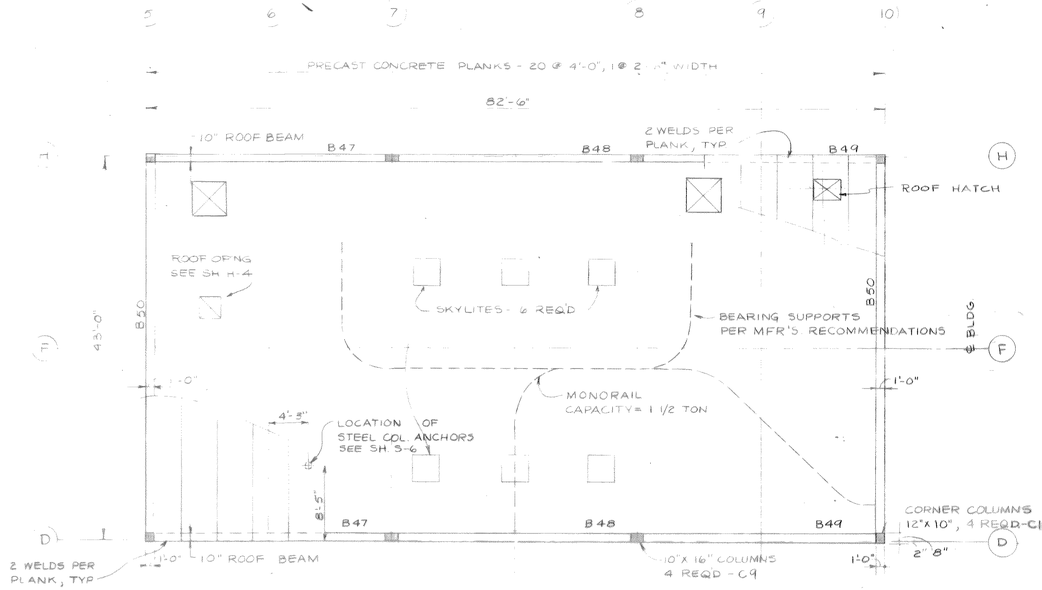
EXCAVATION AND BACKFILL DETAIL
NO SCALE

TABLE "A"

The Contractor shall excavate all areas indicated on this drawing to the minimum depths below planned subgrade as shown below and to the depth satisfactory to the Engineer which removes all soft clay, silt, fine sand or other materials which are determined to be unacceptable for supporting structures.

Area	Depth of Excavation Below Planned Subgrade
▨	2 feet
▩	4 feet
▩	8 feet

All materials excavated below planned subgrade shall be replaced with compacted B-3 gravel in accordance with Specification Section 2C.



HIGH ROOF FRAMING PLAN - CONTROL BUILDING
SCALE 1/8"= 1'-0"

STRUCTURAL NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 4000 PSI @ 28 DAYS.
2. REINFORCING STEEL TO BE ASTM A615 GRADE 60.
3. STRUCTURAL STEEL TO BE ASTM A36.
4. HIGH STRENGTH BOLTS TO BE ASTM A325.
5. WATERSTOP TO BE PVC 6" X 3/8", CENTER BULB TYPE UNLESS NOTED OTHERWISE.
6. EXPANSION JOINT FILLER THICKNESS TO BE 1/2" FOR WALL LENGTH 50 FEET OR LESS AND 1" FOR WALLS OVER 50 FEET.
7. MINIMUM 6" COMPACT B-3 GRAVEL SHALL BE FURNISHED UNDER ALL SLABS ON GRADE UNLESS SPECIFIED OTHERWISE AND EXCEPT AS INDICATED IN TABLE "A" THIS SHEET.
8. USE WELDING CONNECTION AT ALL STEEL FRAMES EXCEPT WHERE BOLTS ARE DETAILED IN CONTRACT DRAWINGS.
9. CONCRETE TOPPING OVER GALLERYS AND TUNNELS SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI WITH 6 X 6 X 6/6 WIRE MESH REINFORCING. PROVIDE WATERPROOFING MEMBRANE UNDER TOPPINGS.
10. THE CONTRACTOR MAY USE ADDITIONAL CONSTRUCTION JOINTS IN WALLS OR SLAB IF APPROVED BY THE ENGINEER. E.J. @ 30', C.J. @ 15'
11. CONCRETE BEAMS AND COLUMNS SHALL HAVE ALL CORNERS CHAMFERED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
12. MINIMUM 8" BEARING SHALL BE REQUIRED FOR ALL CONCRETE BEAM SUPPORTS.
13. DEAD LOAD CAMBER OF 3/8" PER 15' SPAN LENGTH SHALL BE FURNISHED IN ALL FLOOR BEAMS.
14. ALL PRECAST COLUMNS AND BEAMS SHALL HAVE LIFTING DEVICES DESIGNED FOR ERECTION LOADS.
15. PRECAST PRESTRESSED CONCRETE PLANKS SHALL BE DESIGNED FOR SNOW LOAD = 40 PSF AND WIND LOAD = 20 PSF.
16. IN AREAS WHERE FLOOR TILES ARE REQUIRED, 3/4" RECESS AT TOP OF SLAB ON GRADE AND 2" RECESS AT TOP OF FLOOR SLAB SHALL BE PROVIDED FOR TILE INSTALLATION.
17. PROVIDE COMPACT BACKFILL AROUND ALL STRUCTURES AS INDICATED IN EXCAVATION/BACKFILL DETAIL - THIS SHEET.
18. ALL SKYLIGHTS ARE TO BE TYPE B & F AS PER SPECIFICATIONS.
19. CONCRETE SLABS SHALL HAVE A MINIMUM SLOPE TOWARD FLOOR DRAINS EQUAL TO 1/4 INCH PER FOOT UNLESS OTHERWISE NOTED.

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

1/8" = 1'0" 8 4 0 8 16
1" = 40' 40 0 40 80

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				K.S.	9/6/83
2	APPROVED FOR CONSTRUCTION PS 8/13/76		ALT	ACT	S.G.B.	11/1/76
1	FOR APPROVAL CHAPS	8/6/76	ALT	J.E.F.	S.G.B.	8/31/76

PROJECT SUPERVISOR Arnold K. Kingsley APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
KEY PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.
JOB NO. 577 CONTRACT NO. 1 SHEET S - 1

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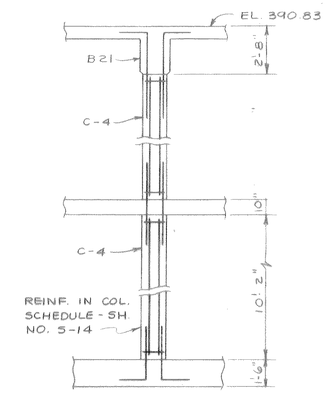
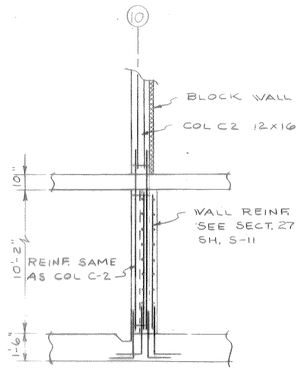


SECTION 40 / S-2

SCALE 1/4"=1'-0"



SECTION 41 / S-2

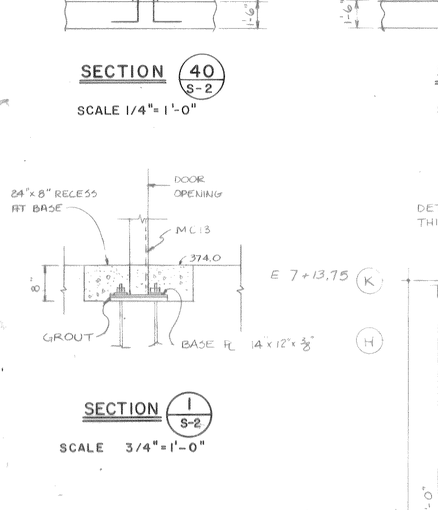
SCALE 1/4"=1'-0"

SECTION 1 / S-2

SCALE 3/4"=1'-0"

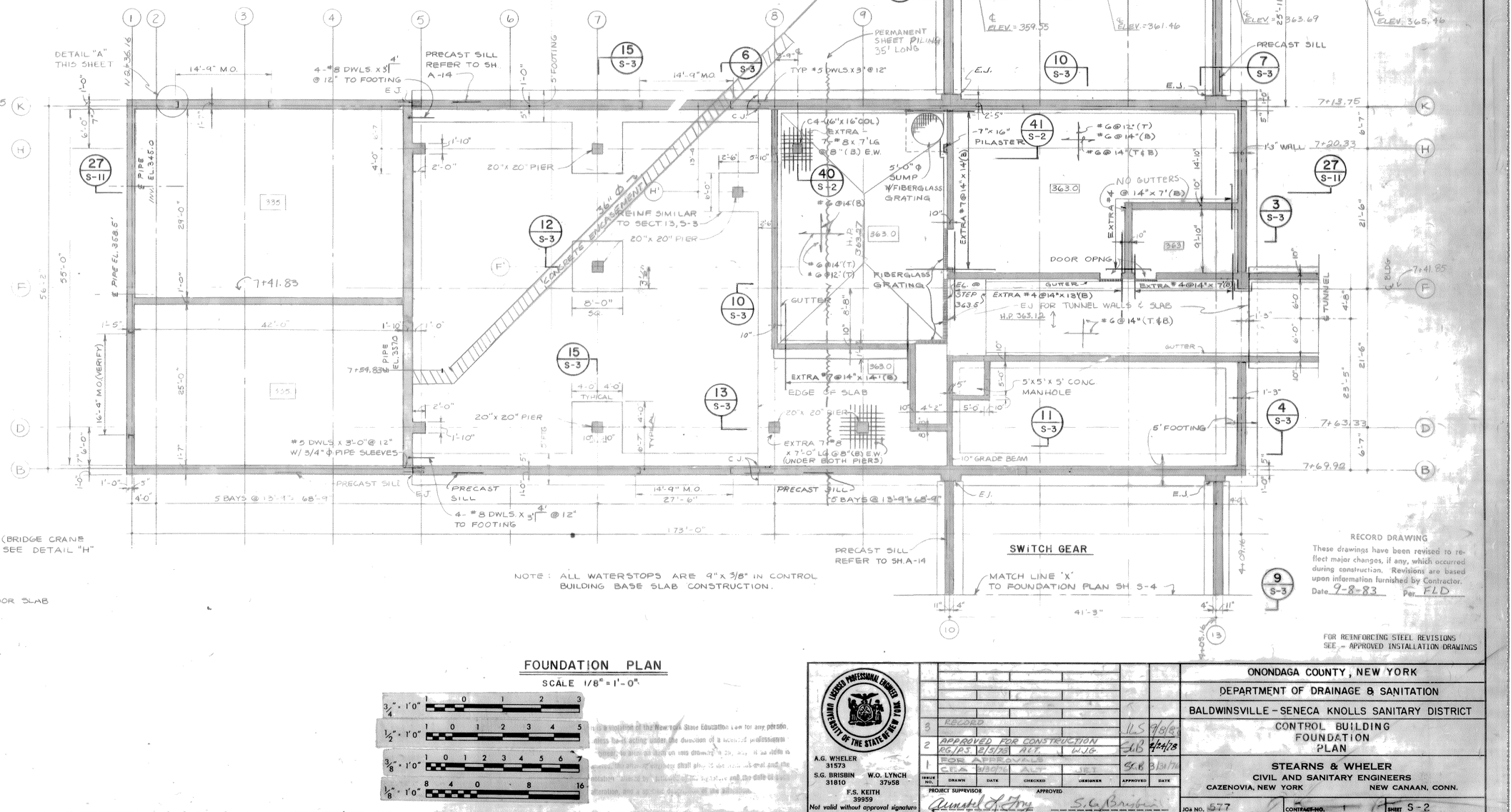
TYPICAL OVERHEAD DOOR FRAME BASE — DETAIL "A"

SCALE 3/4"=1'-0"



SECTION 39 / S-2

SCALE 3/8"=1'-0"



NOTE: ALL WATERSTOPS ARE 9"x 3/8" IN CONTROL BUILDING BASE SLAB CONSTRUCTION.

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

FOUNDATION PLAN

SCALE 1/8"=1'-0"

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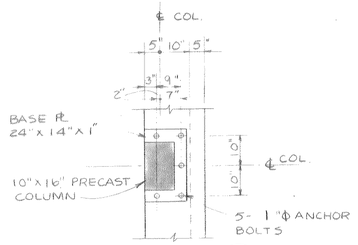
A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				W.J.G.	9/8/83
2	APPROVED FOR CONSTRUCTION		EG/RS	RS/ES	W.J.G.	4/24/78
1	FOR APPROVAL		C.F.A.	B.P.C.	W.J.G.	3/31/78

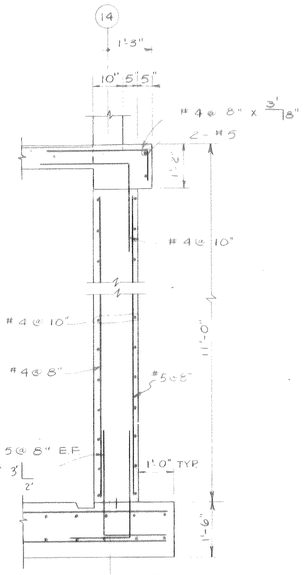
PROJECT SUPERVISOR: Raymond K. Frey
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING FOUNDATION PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

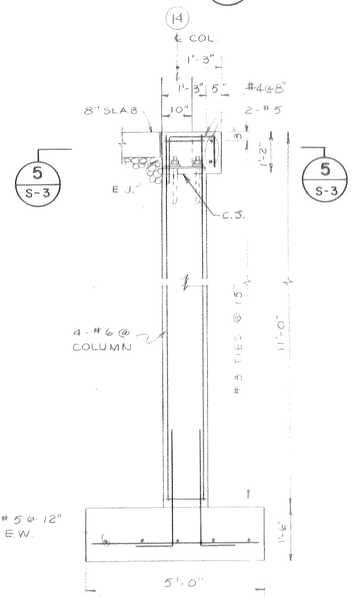
JOB NO. 577 CONTRACT NO. 1 SHEET S-2



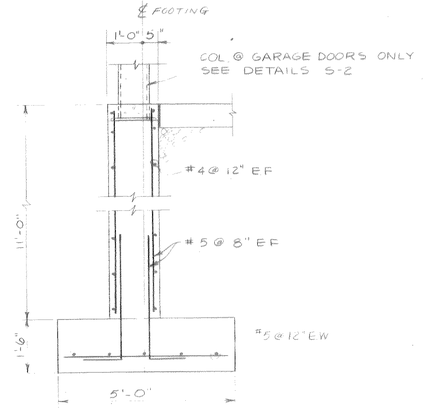
SECTION 5 / S-3



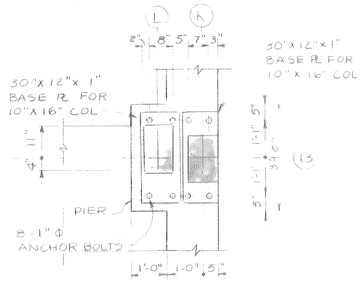
SECTION 3 / S-2



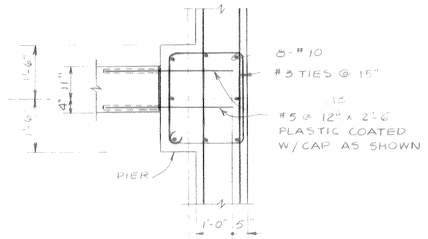
SECTION 4 / S-2



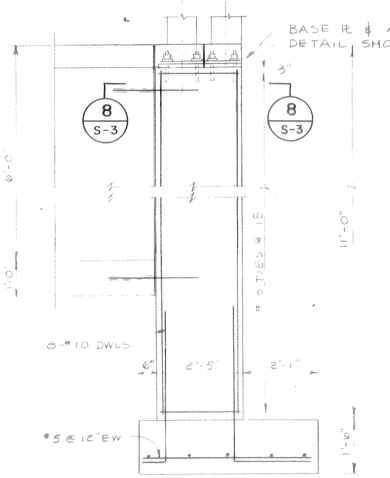
SECTION 6 / S-2



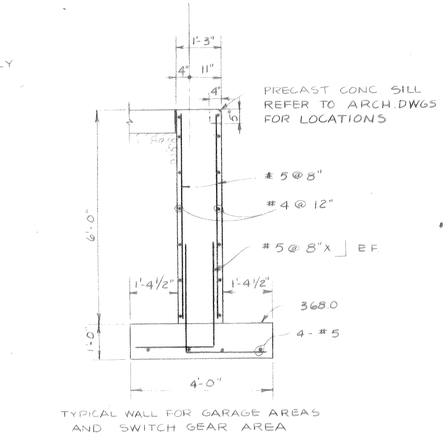
BASE PLATE DETAIL



SECTION 8 / S-3

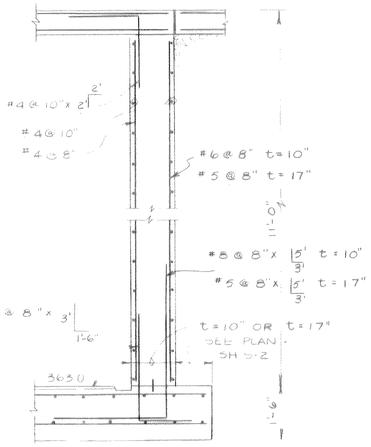


SECTION 7 / S-2

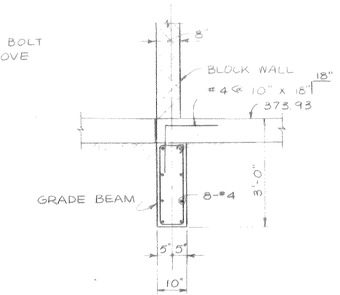


TYPICAL WALL FOR GARAGE AREAS AND SWITCH GEAR AREA

SECTION 9 / S-2



SECTION 10 / S-2



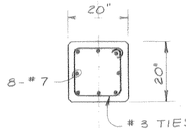
SECTION 11 / S-2

NOTE: WALL PANEL SUPPORTING ANGLE & PLATES ON TOP OF FOUNDATION WALLS ARE SHOWN ON SHEET A-13.

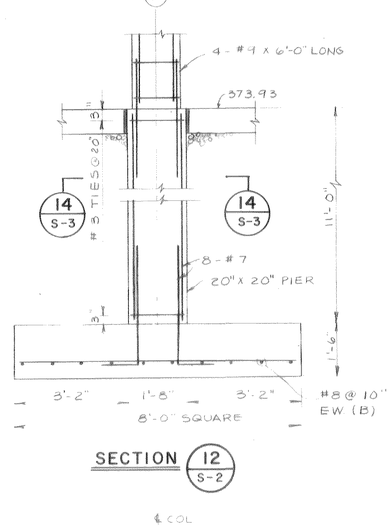
RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

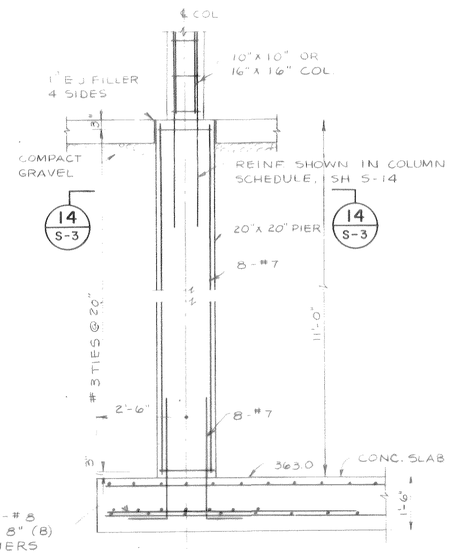
Date 9-8-83 Per FLD



SECTION 14 / S-3

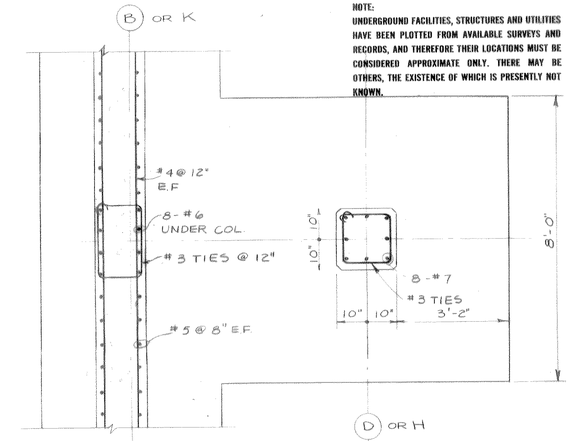


SECTION 12 / S-2



EXTRA 7-#8 x 7'-0" @ 8" (B) E.W. @ PIERS

SECTION 13 / S-2



SECTION 16 / S-3

NOTE:
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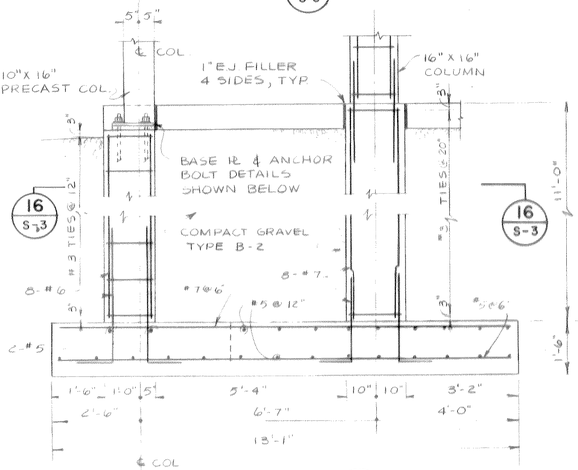
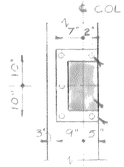




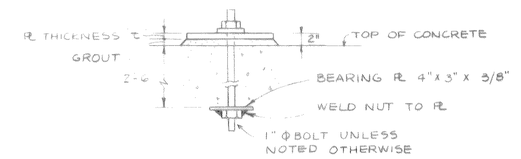
SECTION 15 / S-2

5-1" ϕ ANCHOR BOLTS

10" x 16" PRECAST COLUMN

1" x 14" x 24" BASE PL.

BASE PLATE DETAIL



ANCHOR BOLT DETAIL

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

SCALE 1/2" = 1'-0"

½" = 1'-0" 1 0 1 2 3 4 5

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/9/83
2	APPROVED FOR CONSTRUCTION	PS	2/5/78	ALT	ALT	SLB 2/23/78
1	FOR APPROVALS	PS	3/30/76	ALT	JEI	SLB 3/31/76

PROJECT SUPERVISOR Arundel L. Hong APPROVED S.A. Bristol

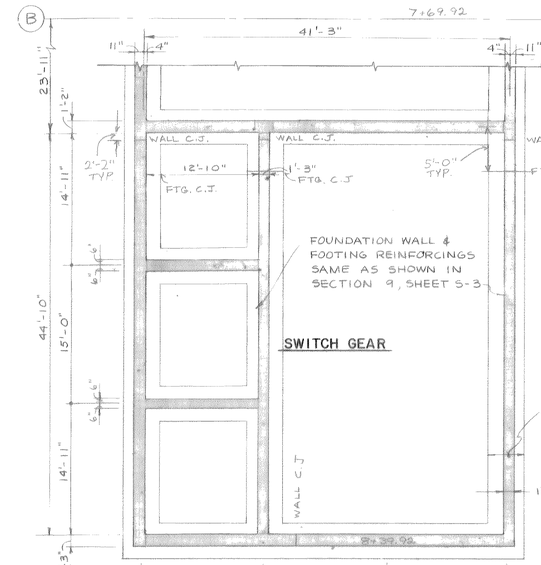
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING FOUNDATION SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-3

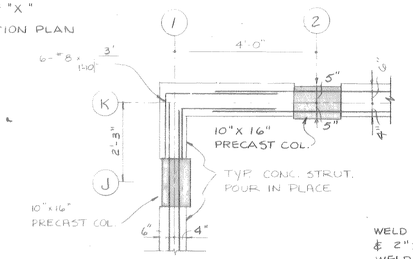
LICENSED PROFESSIONAL ENGINEER ELEANOR G. GORDON 31810 UNIVERSITY OF THE STATE OF NEW YORK

Any violation of this item is subject to penalties under section 7209 of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item in any way.



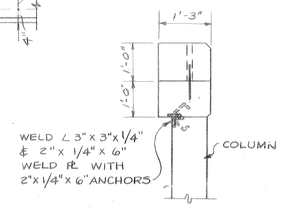
FOUNDATION PLAN

SCALE 1/8"=1'-0"



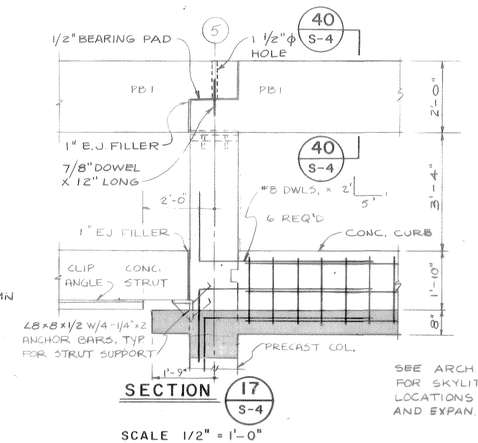
DETAIL "B"
TYPICAL CORNER CONNECTION

SCALE 1/2" = 1'-0"



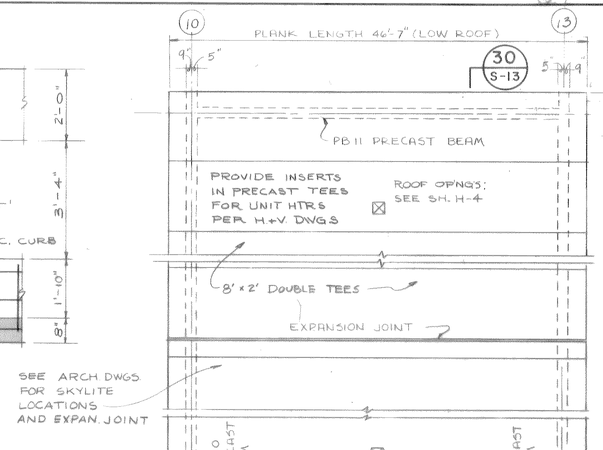
SECTION 40 S-4

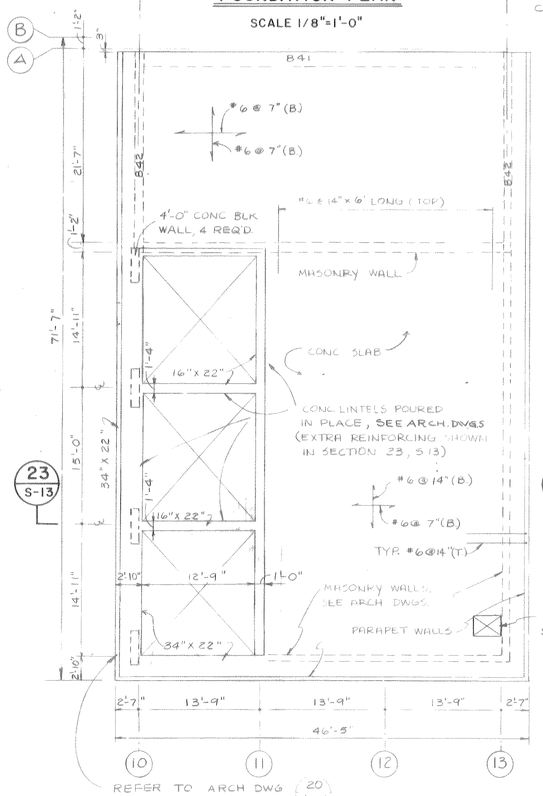
SCALE 1/2"=1'-0"



SECTION 17 S-4

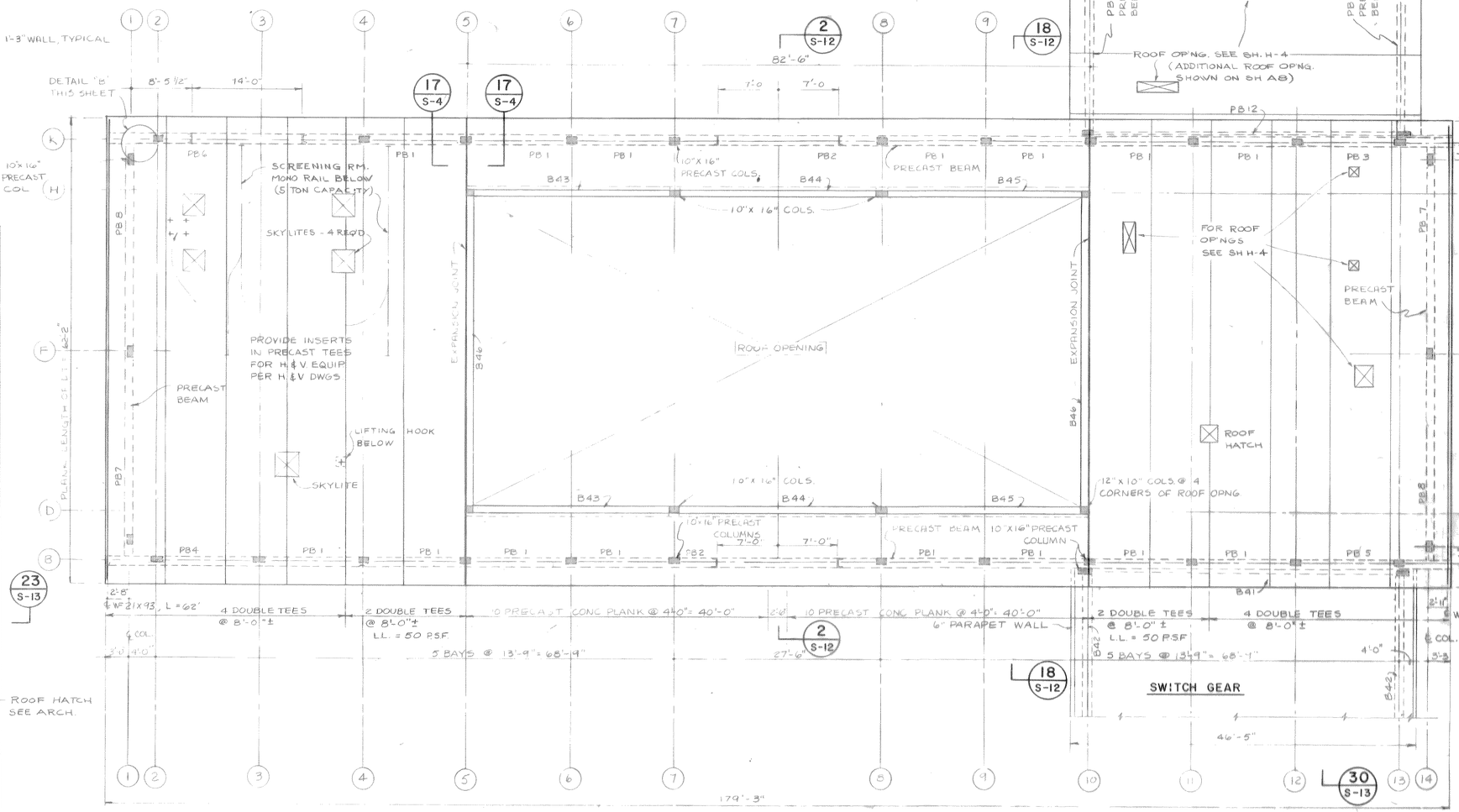
SCALE 1/2" = 1'-0"





ROOF PLAN
SWITCH GEAR

SCALE 1/8"=1'-0"



CONTROL BUILDING ROOF PLAN

SCALE 1/8" = 1'-0"

DOUBLE TEES SHALL BE DESIGNED FOR A LIVE LOAD OF 40 PSF UNLESS NOTED OTHERWISE.

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

1/2" = 1'0" 1 0 1 2 3 4 5

1/8" = 1'0" 8 4 0 8 16

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer or architect, to alter an item in any way. If an item bearing the seal of an engineer or architect is altered, the altering engineer or architect shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD			JLS		9/8/83
2	APPROVED FOR CONSTRUCTION		PS. 8/31/78 ALT	ALT	SGB	8/24/78
1	FOR APPROVAL		CBA 8/30/76 ALT	JEI	SGB	9/21/76

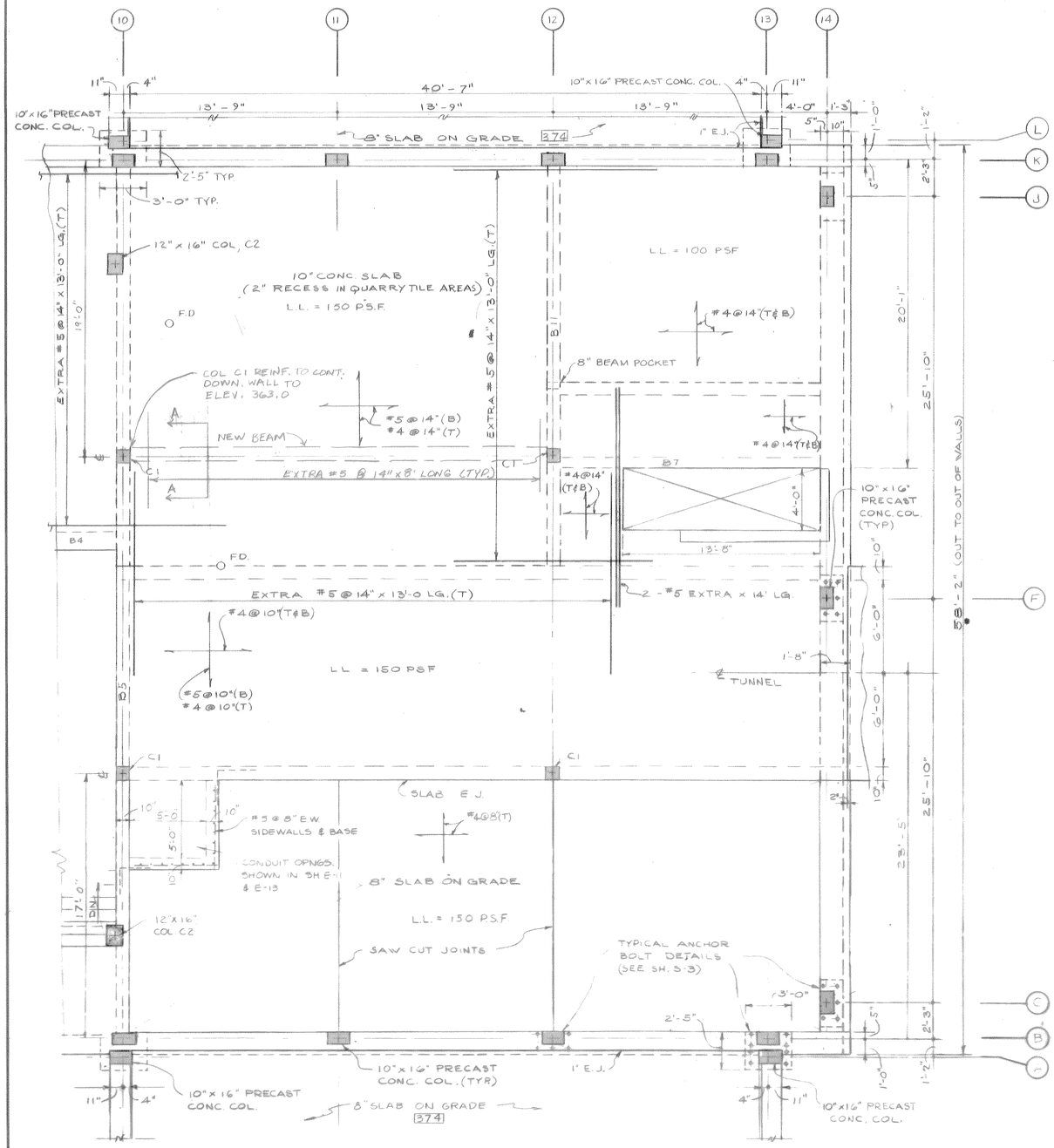
PROJECT SUPERVISOR Arnold L. Stang APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
ROOF
PLAN

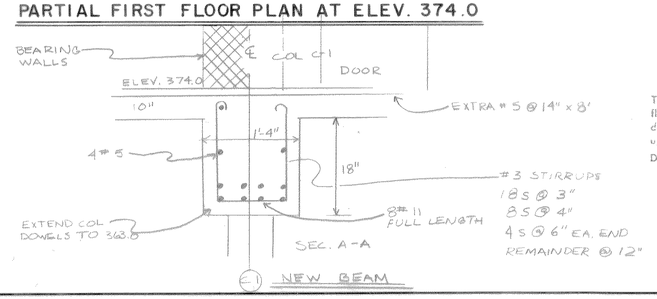
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

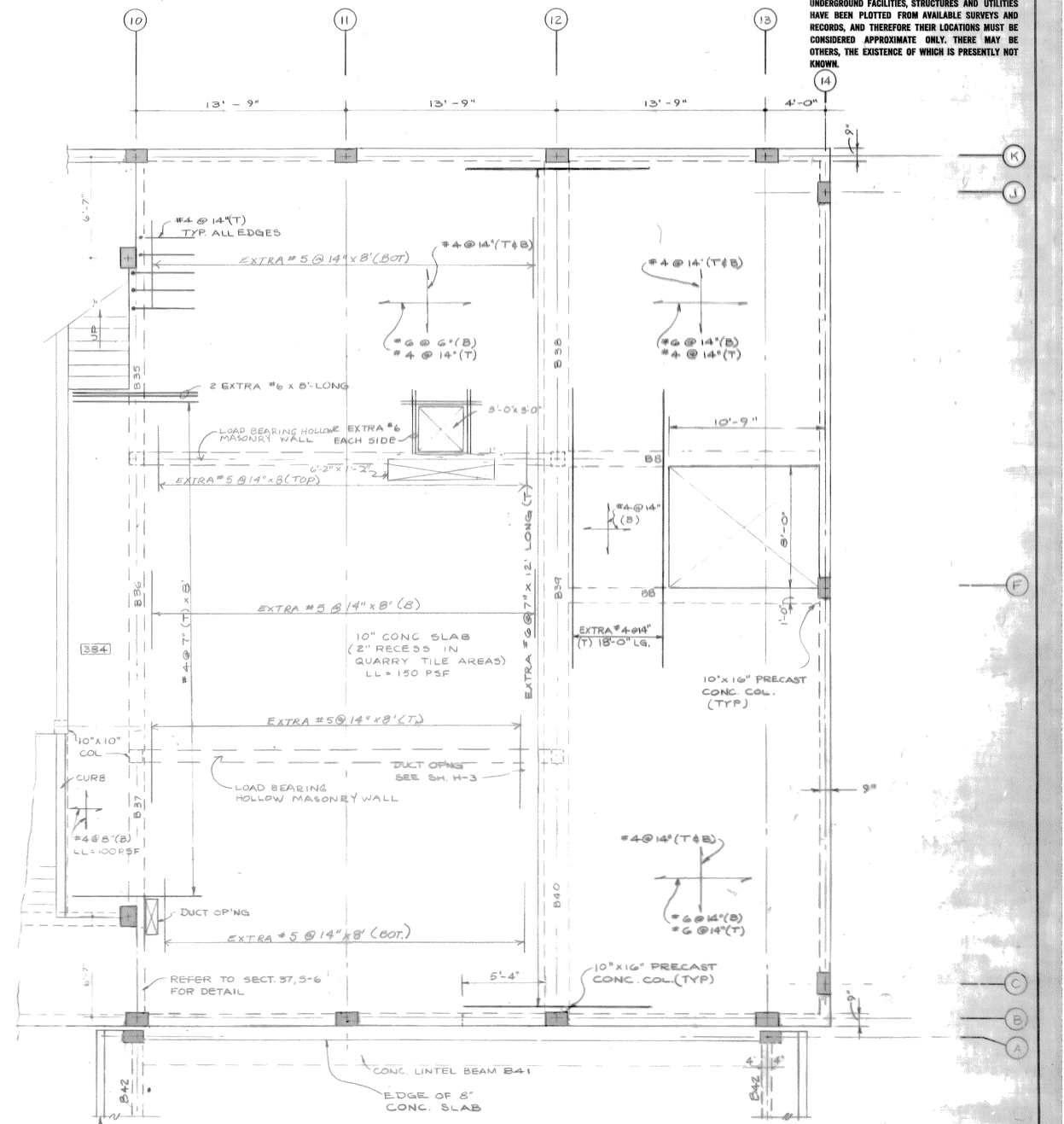
JOB NO. 577 CONTRACT NO. 1 SHEET S-4

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PARTIAL FIRST FLOOR PLAN AT ELEV. 374.0





PARTIAL 2nd FLOOR PLAN AT ELEV. 384.0

SCALE 1/4" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD					9/8/83
2	APPROVED FOR CONSTRUCTION RFG. 3/5/78	ALT	WJG		SJB	4/24/78
1	FOR APPROVALS RFG. 3/20/78	ALT	JET		SJB	3/31/78

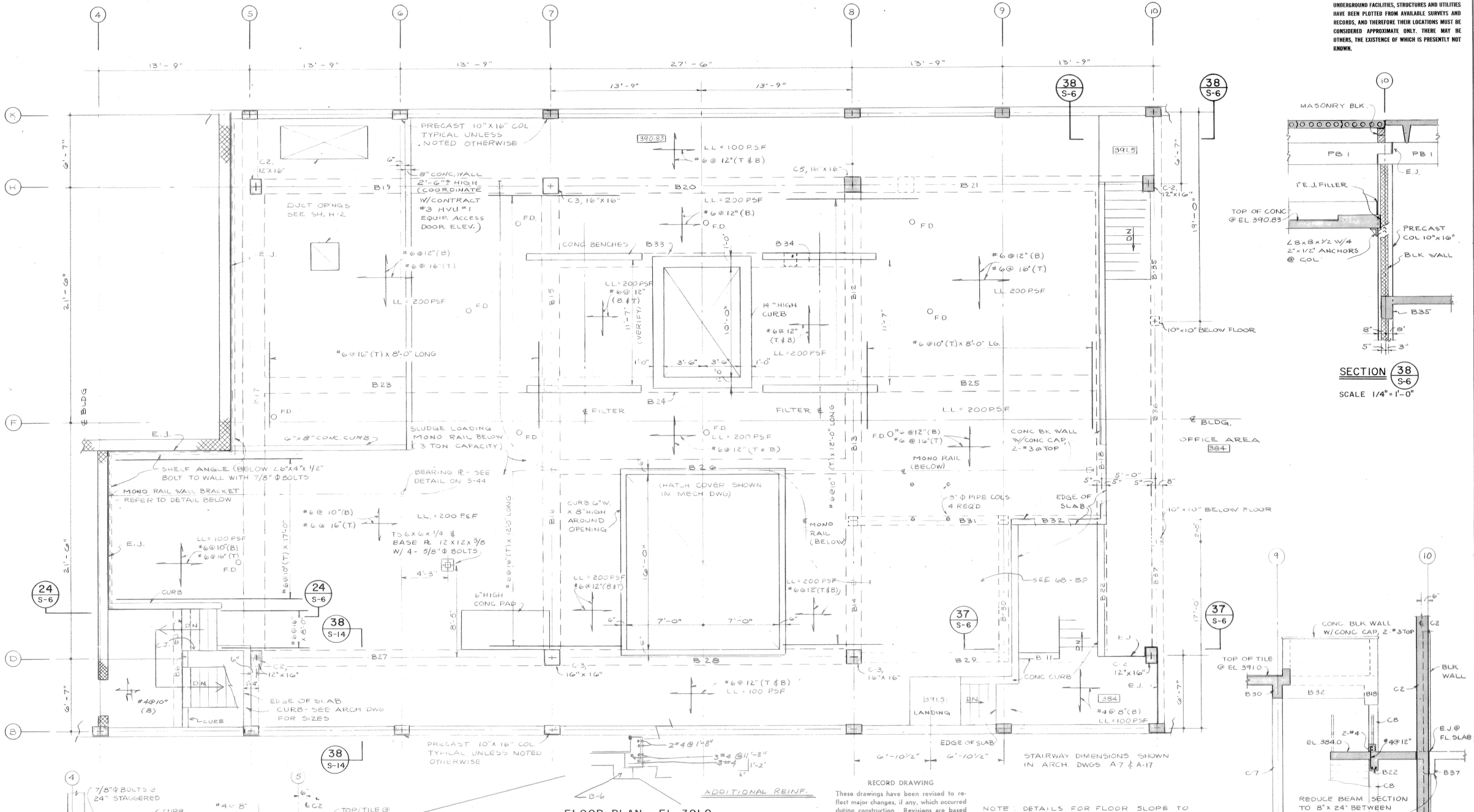
PROJECT SUPERVISOR Arnold K. Stange
APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
OFFICE AREA 1st & 2nd FLOOR - PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET S-5

136

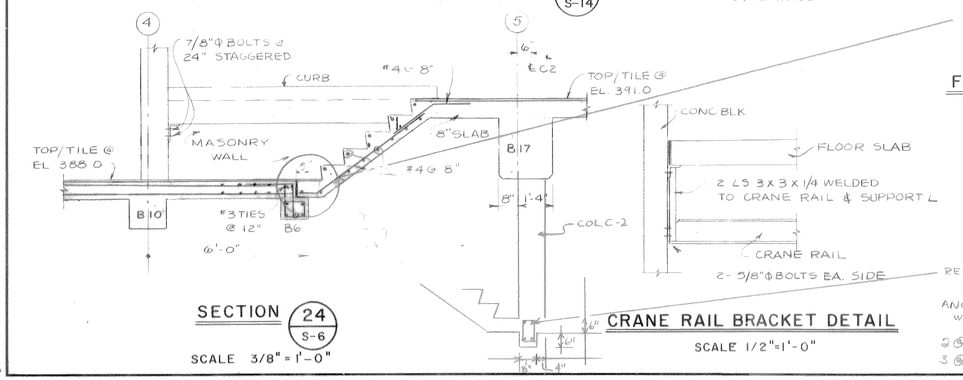
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION 38 S-6
SCALE 1/4"=1'-0"

REDUCE BEAM SECTION TO 8"x 24" BETWEEN D&B AND K&H

SECTION 37 S-6
SCALE 1/4"=1'-0"



SECTION 24 S-6
SCALE 3/8"=1'-0"

CRANE RAIL BRACKET DETAIL
SCALE 1/2"=1'-0"

FLOOR PLAN - EL. 391.0
SCALE 1/4" = 1'-0"

½" = 1'0" 1 0 1 2 3 4 5
⅜" = 1'0" 1 0 1 2 3 4 5 6 7
¼" = 1'0" 2 0 2 4 6 8 10

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RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

NOTE: DETAILS FOR FLOOR SLOPE TO DRAINS AND TILE INSTALLATION ARE SHOWN IN SH NO S-47

FOR REVISIONS AT VACUUM FILTER, SEE DWGS. SHEET S-6A-BP AND S-6B-BP.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION				SGB	3/24/78
	PS/RG	2/3/78	ALT	ALT		
1	FOR APPROVALS				SGB	3/31/76
	RFG	3/30/76	ALT	JET		

PROJECT SUPERVISOR Arnold L. Jones APPROVED S.G. Brainerin

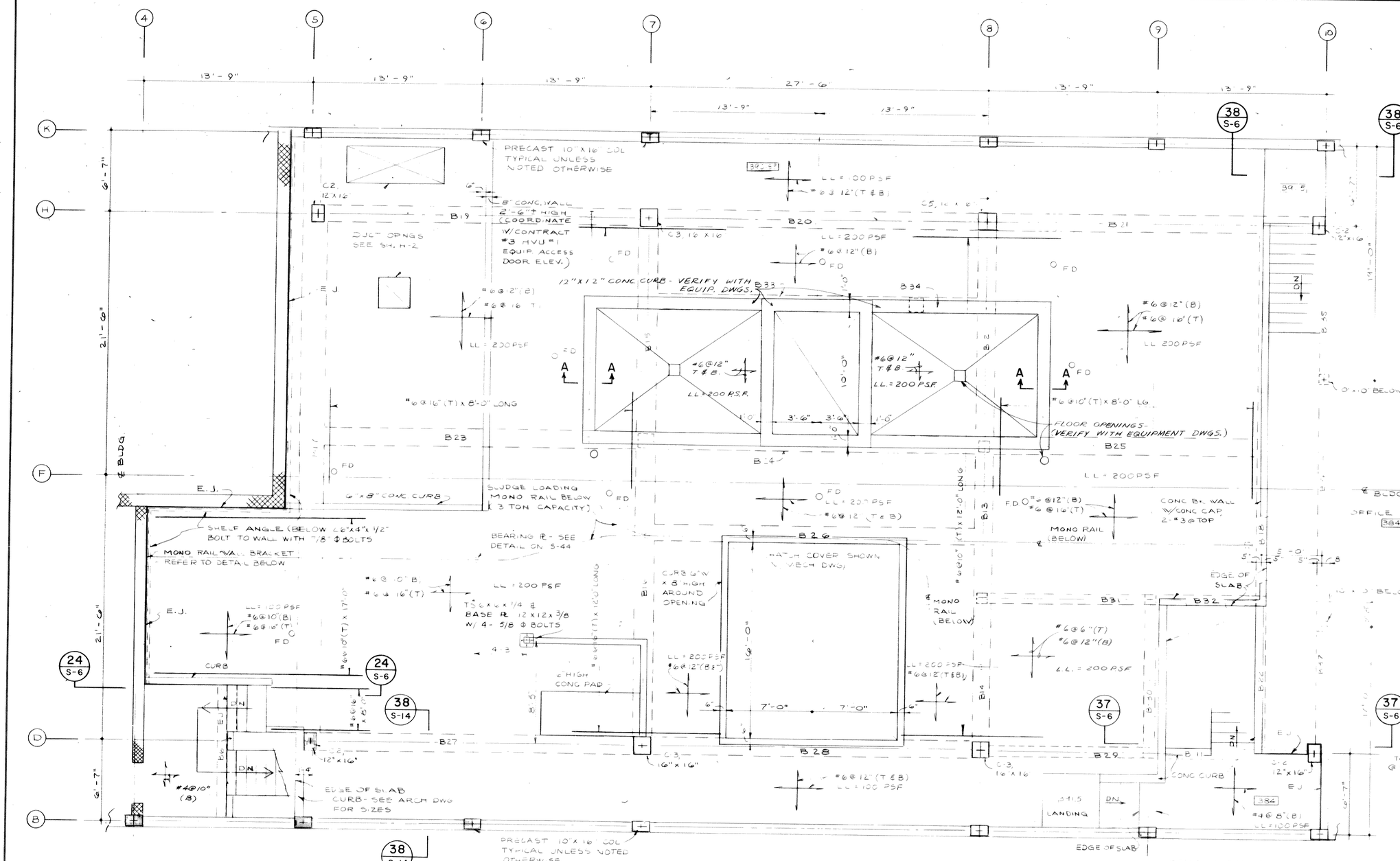
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PLAN AT ELEVATION 391.0

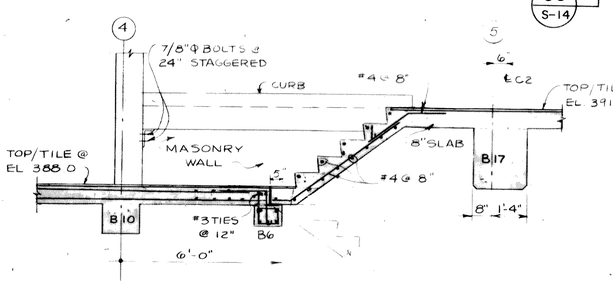
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-6

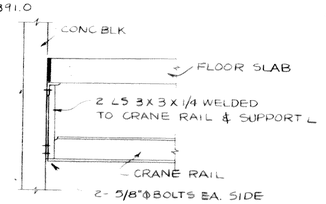
137

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





SECTION 24 S-6
SCALE 3/8"=1'-0"



CRANE RAIL BRACKET DETAIL
SCALE 1/2"=1'-0"

FLOOR PLAN - EL. 391.0
SCALE 1/4" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

NOTE: DETAILS FOR FLOOR SLOPE TO DRAINS AND TILE INSTALLATION ARE SHOWN IN SH NO S-47

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

STAIRWAY DIMENSIONS SHOWN IN ARCH DWGS A-7 & A-17

1/2" = 1'0" 0 1 2 3 4 5
3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER — S. G. BRIGHTON — No. 11810 — STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD				VS	9/8/83
1	PRELIMINARY FOR PROPOSAL RT-60	PS	WJB/MA	ALT	ALT	JLS 11/8/82

PROJECT SUPERVISOR: Arnold L Torg
APPROVED: S.G. Brighton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PLAN AT ELEVATION 391.0
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT
JOB NO. 577889 | CONTRACT NO. 1 | SHEET S-6A-BP

137

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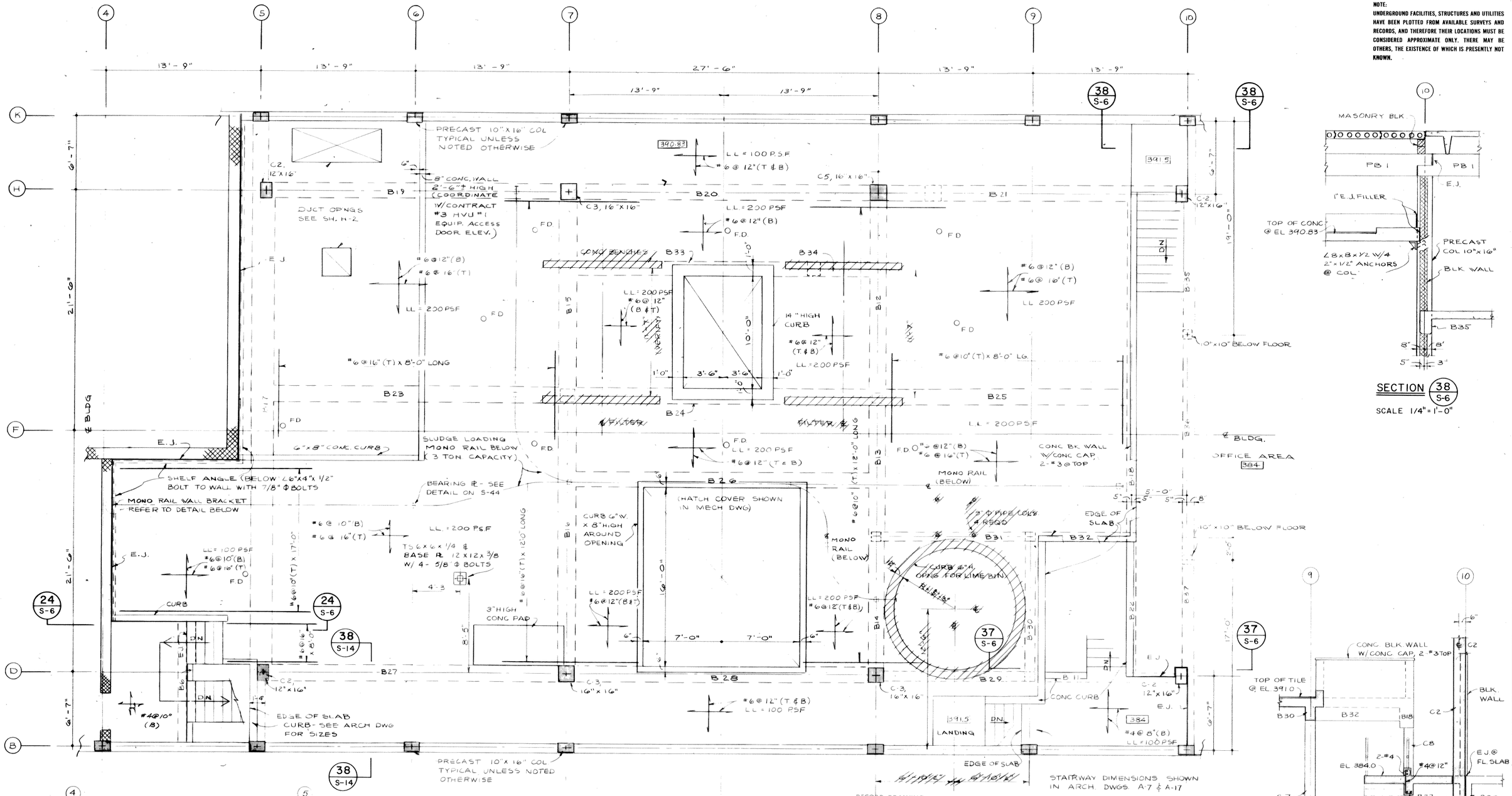

SECTION 24 S-6
SCALE 3/8"=1'-0"

CRANE RAIL BRACKET DETAIL
SCALE 1/2"=1'-0"

FLOOR PLAN - EL. 391.0
SCALE 1/4"=1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

NOTE: DETAILS FOR FLOOR SLOPE TO DRAINS AND TILE INSTALLATION ARE SHOWN IN SH. NO. S-47.

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

1/2" = 1'0" 1 0 1 2 3 4 5
3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER SIDNEY G. BRISTOL 31810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				WJS	9/6/83
2	REV. CONC. PAD HEIGHT FROM 6" TO 3"		FRW		JWS	11/21/79
	FRW 11/27/79		D-H		FRW	
1	PRELIMINARY FOR PROPOSAL DC-60				WJS	11/19/79
	DS 11/19/79		ALT		ALT	

PROJECT SUPERVISOR: Armistead L. Long
APPROVED: S.G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PLAN AT ELEVATION 391.0

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577/889 | CONTRACT NO. 1 | SHEET S-6B-BP

137

NOTE:
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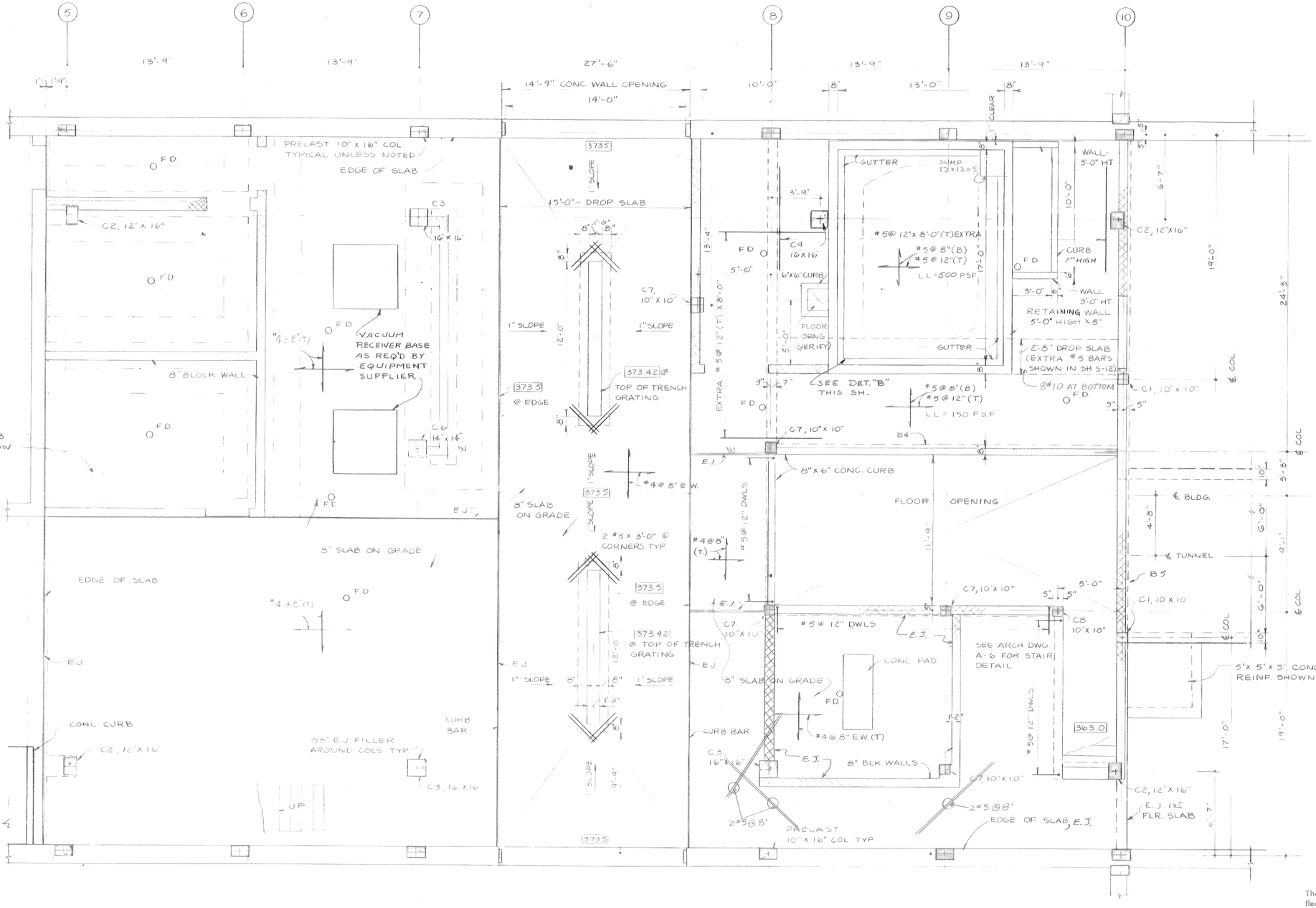
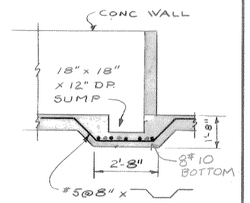
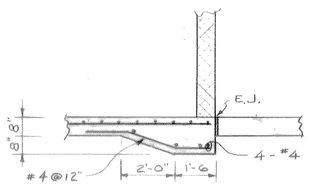




DETAIL "B"
NO SCALE



DETAIL "A"
NO SCALE

FLOOR PLAN – EL. 374.0'
SCALE " 1/4" = 1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

NOTE DETAILS FOR FLOOR SLOPE TO DRAINS AND TILE INSTALLATION ARE SHOWN IN SH NO 5-47.

FOR REVISIONS AT VACUUM FILTERS, SEE DRAWINGS SH. S-7B-BP.

RECORD DRAWING
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Date 9-8-83 Per F&D

FOR REINFORCING STEEL REVISIONS SEE – APPROVED INSTALLATION DRAWINGS

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION PS	2/5/76	ALT	WJE	SGB	2/24/76
1	FOR APPROVALS PS	3/30/76	ALT	JEJ	SGB	3/31/76

PROJECT SUPERVISOR Arnold L. Fong
APPROVED S.G. Brisbin

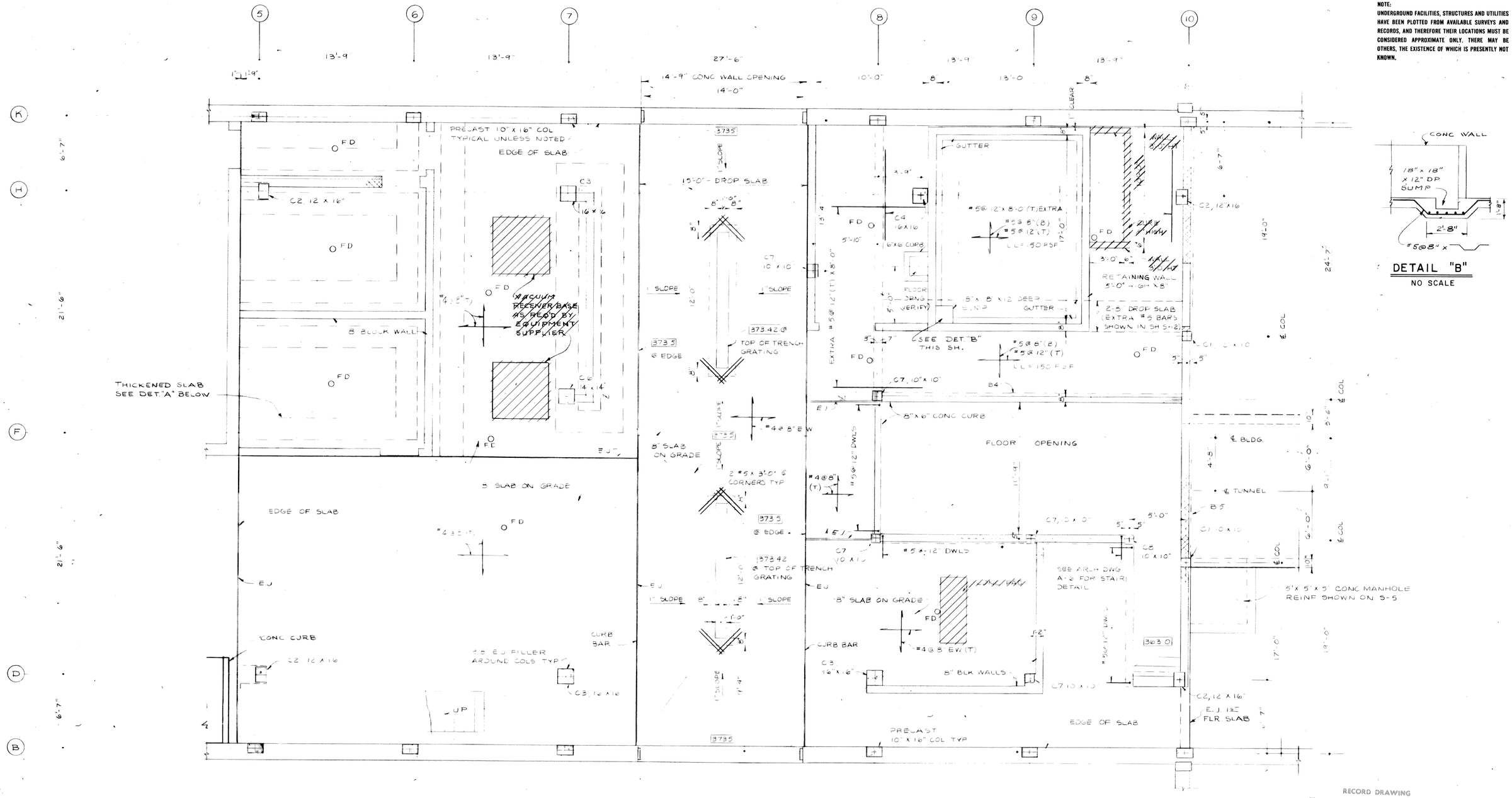
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PLAN AT ELEVATION 374.0

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

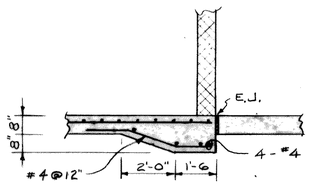
JOB NO. 577 | CONTRACT NO. 1 | SHEET S-7

138

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



DETAIL "B"
NO SCALE



DETAIL "A"
NO SCALE

FLOOR PLAN – EL. 374.0'
SCALE: 1/4" = 1'-0"

NOTE DETAILS FOR FLOOR SLOPE TO DRAINS AND TILE INSTALLATION ARE SHOWN IN SH NO S-47

1/4" = 1'-0" 2 0 2 4 6 8 10

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RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS
SEE - APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	REGRADE				JLS	7/6/83
1	PRELIMINARY FOR PROPOSAL PC-60				JLS	11/15/77
	BS	11-16-77	ALT	ALT		

PROJECT SUPERVISOR: Arnold L. Haug
APPROVED: S.G. Brighi

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PLAN AT ELEVATION 374.0

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577/889 | CONTRACT NO. 1 | SHEET S-7B-BP

138

NOTE:
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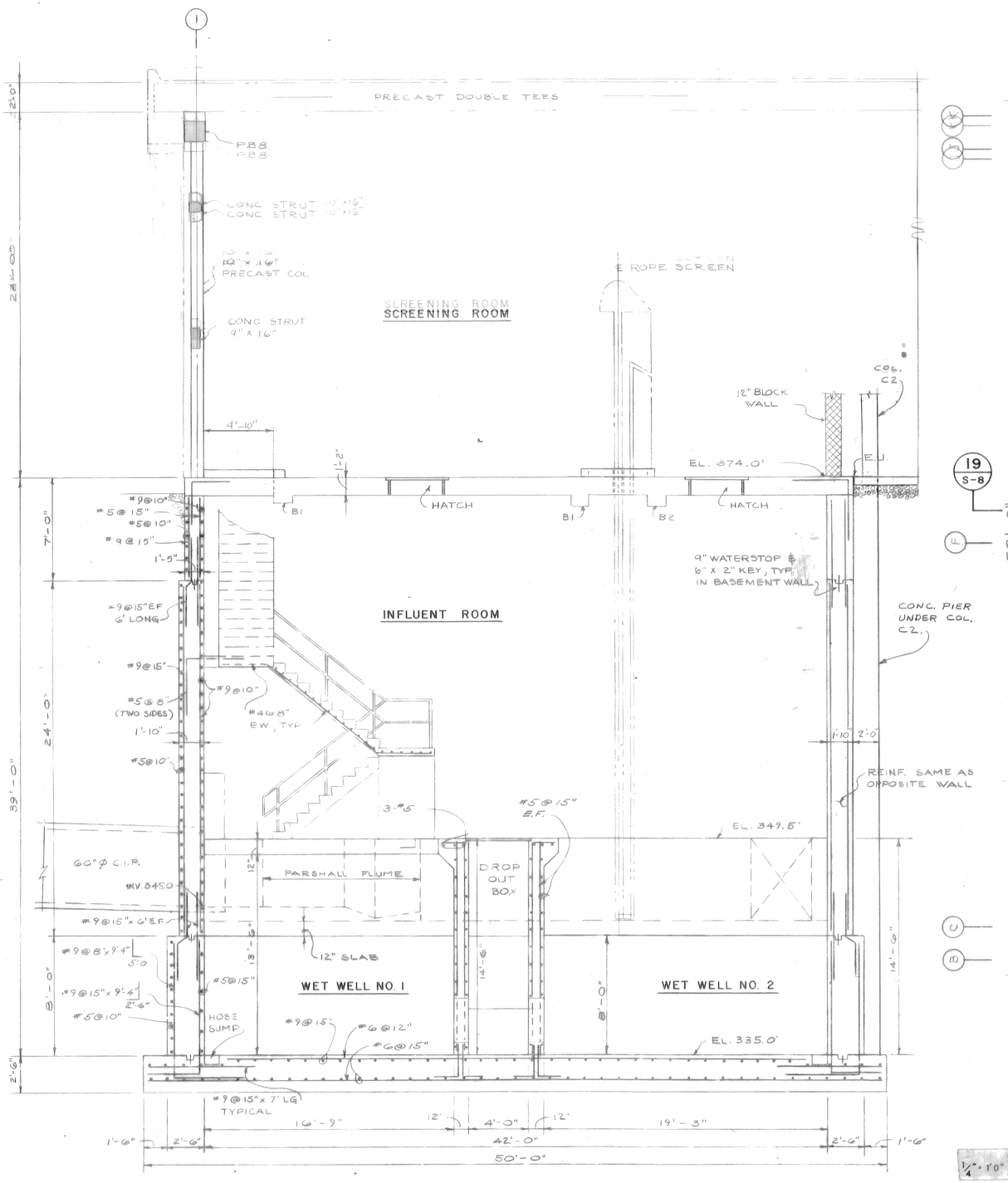
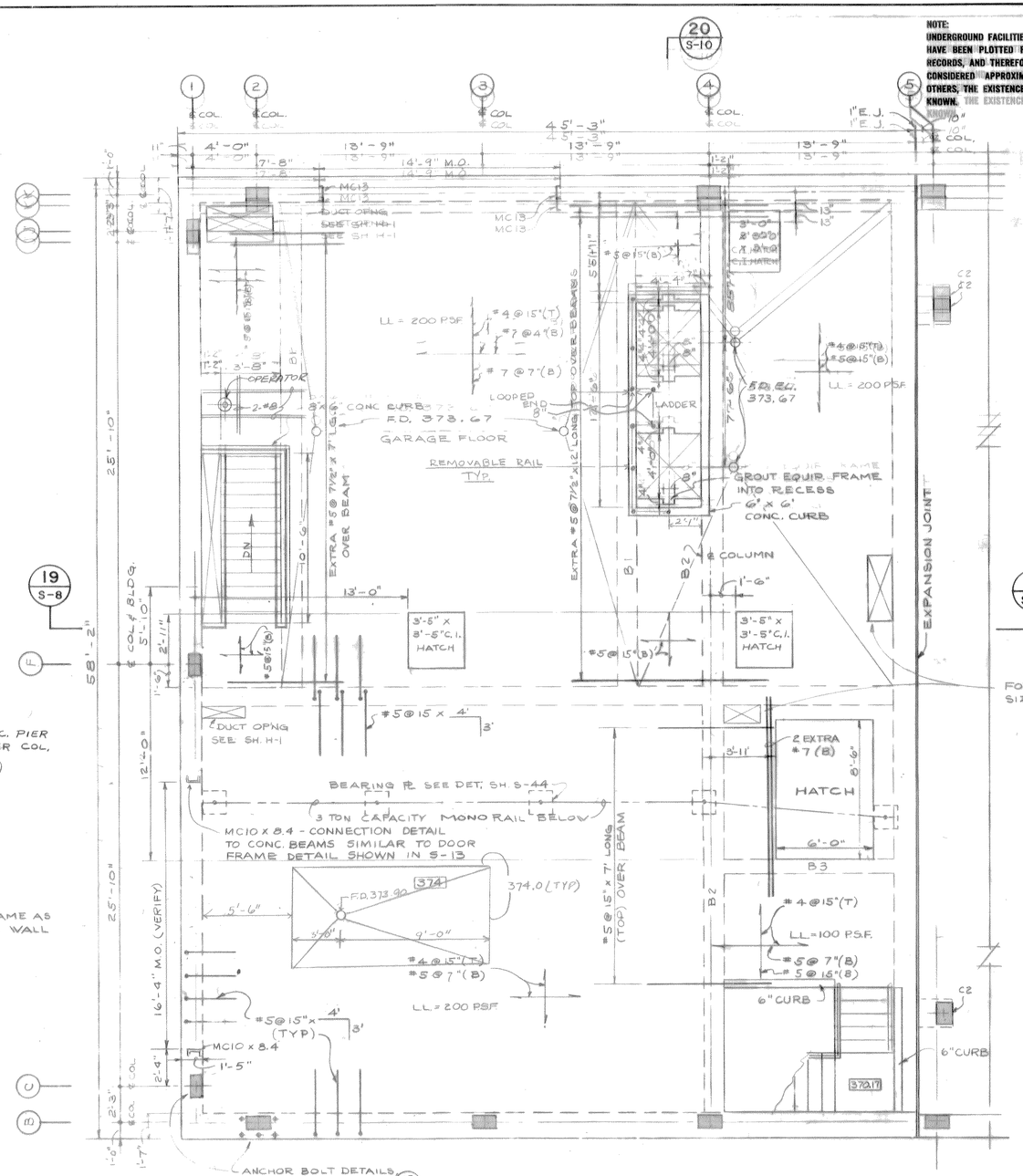


SECTION 19 / S-8



FIRST FLOOR PLAN
AT ELEV. 374.0

20 / S-10

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

SCALE 1/4" = 1'-0"

1/4"-1'0" 2 0 2 4 6 8 10

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A.G. WHEELER 31573
S.G. BRISBIN 31610
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

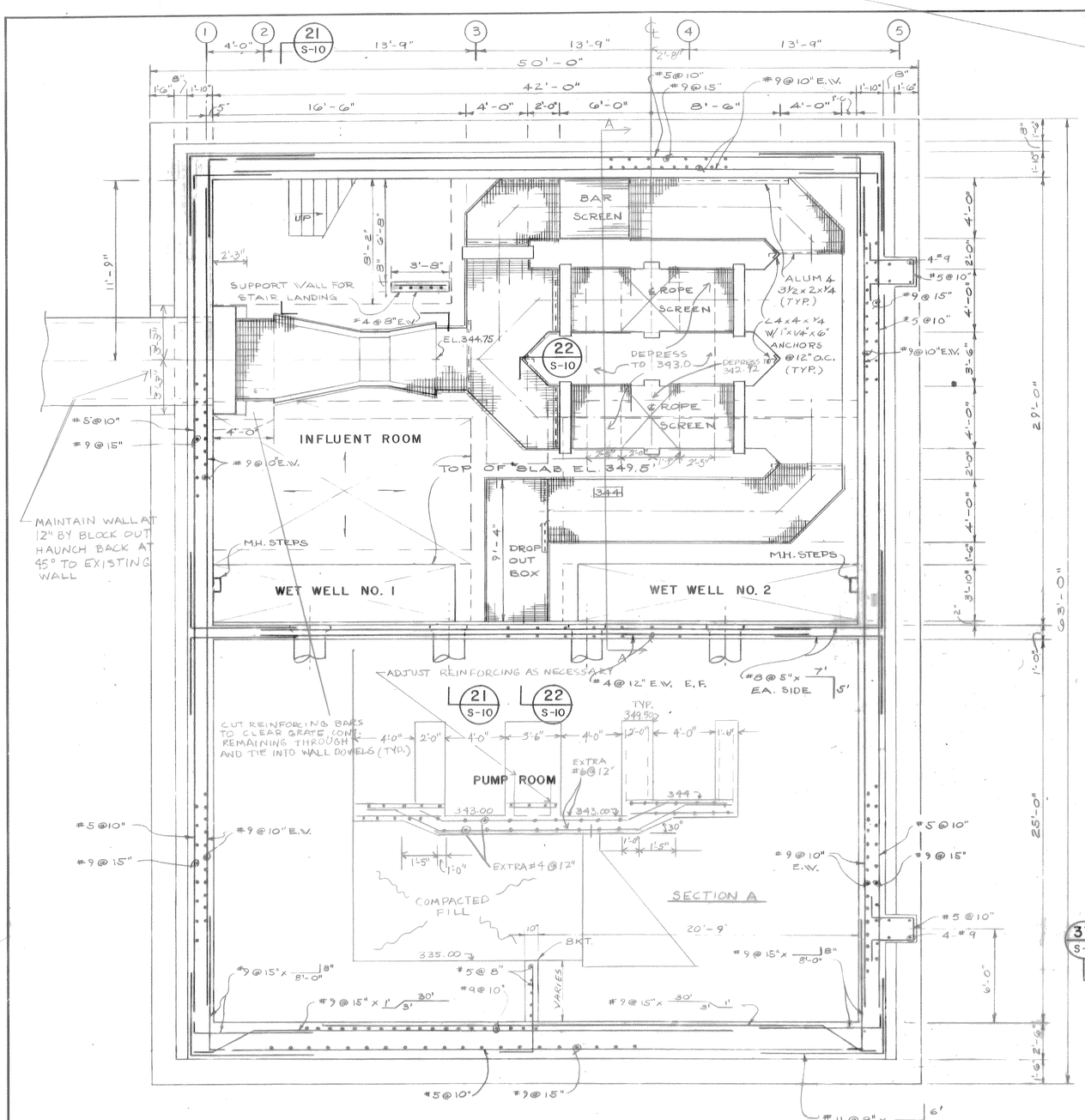
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				K.S.	9/8/83
2	APPROVED FOR CONSTRUCTION				S.G.B.	9/24/70
	RFG. 12/5/79		ALT	ALT		
1	FOR APPROVAL				S.G.B.	9/21/79
	RFG. 11/30/79		ALT	JET		

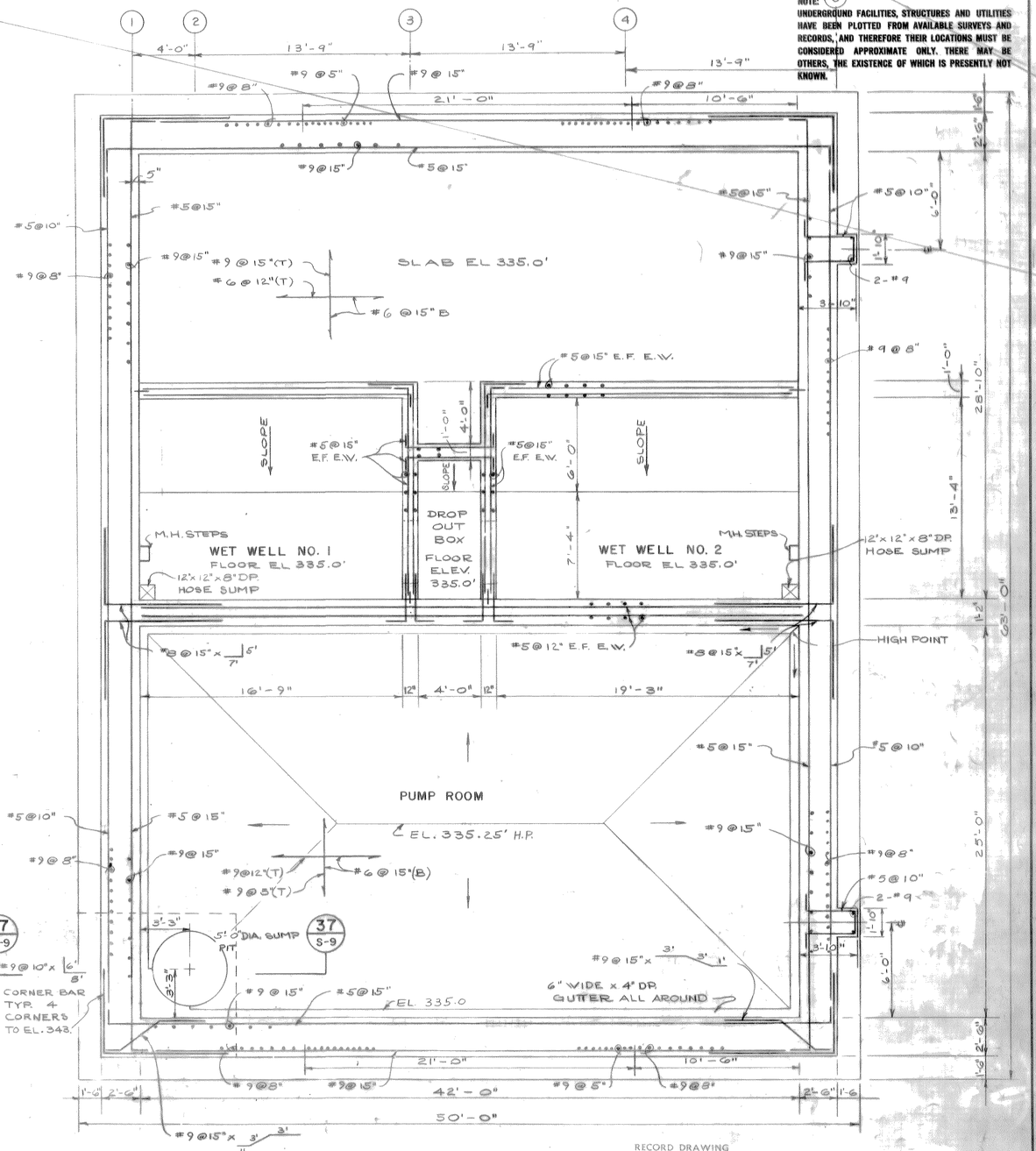
PROJECT SUPERVISOR S.G. Brisbin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SCREENING & GENERATOR ROOMS
PLAN & SECTION
STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

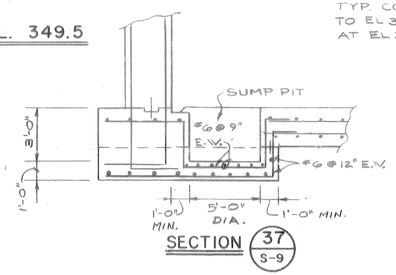
JOB NO. 577 CONTRACT NO. 1 SHEET S-8

NOTE: (5) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





PLAN AT EL. 349.5



SECTION (37 S-9)

BASEMENT SLAB PLAN

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor
Date 9-8-83 Per F.L.D.

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

SCALE 1/4"=1'-0"

1/4" = 1'-0"

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JKS	9/8/83
2	APPROVED FOR CONSTRUCTION RFG 5/2/78		ACT	ACT	SGB	2/24/78
1	FOR APPROVALS RFG 3/30/78		ALT	JEI	SGB	3/31/78

PROJECT SUPERVISOR: Kenneth L. Hoyt
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PUMP & INFLUENT ROOMS
PLANS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 57.7 | CONTRACT NO. 1 | SHEET S-9

NOTE:
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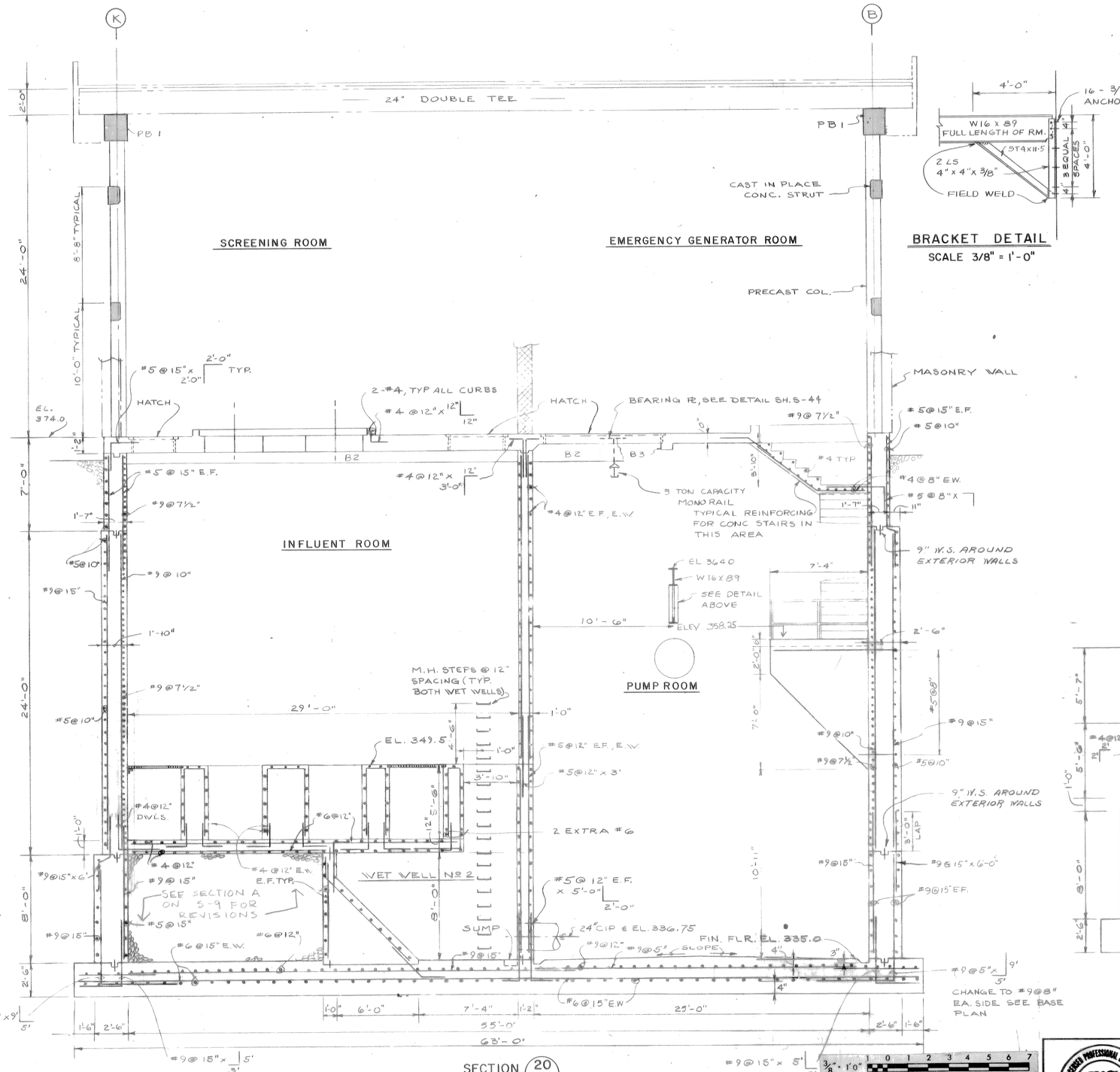

SECTION 20 S-8
SCALE 1/4" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37955
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.		DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JCS	11/6/83
2	APPROVED FOR CONSTRUCTION				SGB	2/24/78
	RFC	2/15/78	ALT	ALT		
1	FOR APPROVALS				SGB	3/31/76
	RFC	3/30/76	ALT	JET		

PROJECT SUPERVISOR APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PUMP & INFLUENT ROOMS
SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-10

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SCREENING ROOM

GARAGE DOOR

OFFICE AREA

SKYLITE, 6 REQ'D SEE ARCH DWG A-38

2" STRUCTURAL TOPPING

10" CONC. PLANKS

EL 407.5'

COL. & BEAM CONNECTION DETAILS ON SH. S-12

TYPICAL REINF. DETAIL AT BEAM & COLUMN CONNECTIONS

1" E.J. FILLER & SEALANT

L6x4"x1/2" W/7/8" ϕ BOLTS @ 24" STAGGERED

#4@8" TYP @ CURBS

EL @ TOP OF SLAB - 390.83

EL @ TOP OF QUARRY TILE - 391.0

E.J. FILLER

TOP TILE @ EL. 384.0

BEAM DET. SHOWN ON SH. S15

#4@8" E.W. ENTIRE SLAB ON GRADE AREA

SLAB ON GRADE THICKENED UNDER BLOCK WALL, TYP.

2-1/2" ϕ WEDGE ANCHORS 3" EMBEDMENT

HANGER @ EA. STEM (12 REQ'D.)

ROOF THIMBLE W/ PIPE SUPPORTS & 5/8" ϕ ROD

UNISTRUT & 5/8" ϕ SUPPORT ROD & HANGER

CURB BAR, EACH SIDE

EL @ TOP OF TILE 374.0

E.J. FILLER EACH SIDE

20"x20" PIER

REINFORCING SIMILAR TO SECT 10, SH S-3

FOUNDATION WALL DETAIL - SECT. 3 SH. S-3

EL 373.0

SECTION 27 S-2
SCALE 1/4"=1'-0"

SECTION 25 S-11
SCALE 1/4"=1'-0"

SECTION 26 S-11
SCALE 1/4"=1'-0"

GENERATOR MEZZANINE PLAN
SCALE 1/4"=1'-0"

REMOVABLE GRATING

CLEVIS HANGER & ROD TO SUPPORT CHANNEL (TYP.)

ROOF THIMBLE

8" MEZZ. FLOOR SLAB

2-#8x8' EXTRA

4'-0"x4'-0" HATCH OPNG.

LL = 200 PSF

DL = 100 PSF

12" BLOCK WALL

W14x22 W/ CRADLE

W4x30

C12x20.7

2-#10 CHNL 2'-0"

#6@10"(T) x 12'-0" EXTRA

4-#10 DOWELS B-10

CONC. STRUT SH A-9

CLIP L 3x3x1/4

10"x16" PRECAST CONC. COL.

WALL LADDER

KICK PL.

BLOCK WALL

CONC. GENERATOR BASE

EL 374.0

EL 388.0

EL @ TOP OF TILE - 388.0

ELEV 387'-10"

2-#2"x1/4"x1/16" ANCHOR STRAPS

L6x6x1/2x12" LONG

SEC. A

L3x3x1/4 GRATING

L3x3x1/4x9" LONG (TYP.)

KICKPLATES

8" BEARING PAD FILL 2 COURSES OF CONC BLOCKS WITH GROUT UNDER BEAMS & FLOOR SLAB

5/8" ϕ BOLTS AS SHOWN

2"x1/4 ANCHOR BARS 2 REQ'D.

BEAM SUPPORT L6x6x1/2, W/4-5/8" ϕ BOLTS TO COL.

10"x16" CONC. COL.

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING
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Date 9-8-83 Per F.L.D.

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION				SLB	4/24/78
	R.C./P.S.	2/5/78	ALT	LJG		
1	FOR APPROVALS				SLB	3/31/78
	R.C./P.S.	3/30/78	ALT	JEI		

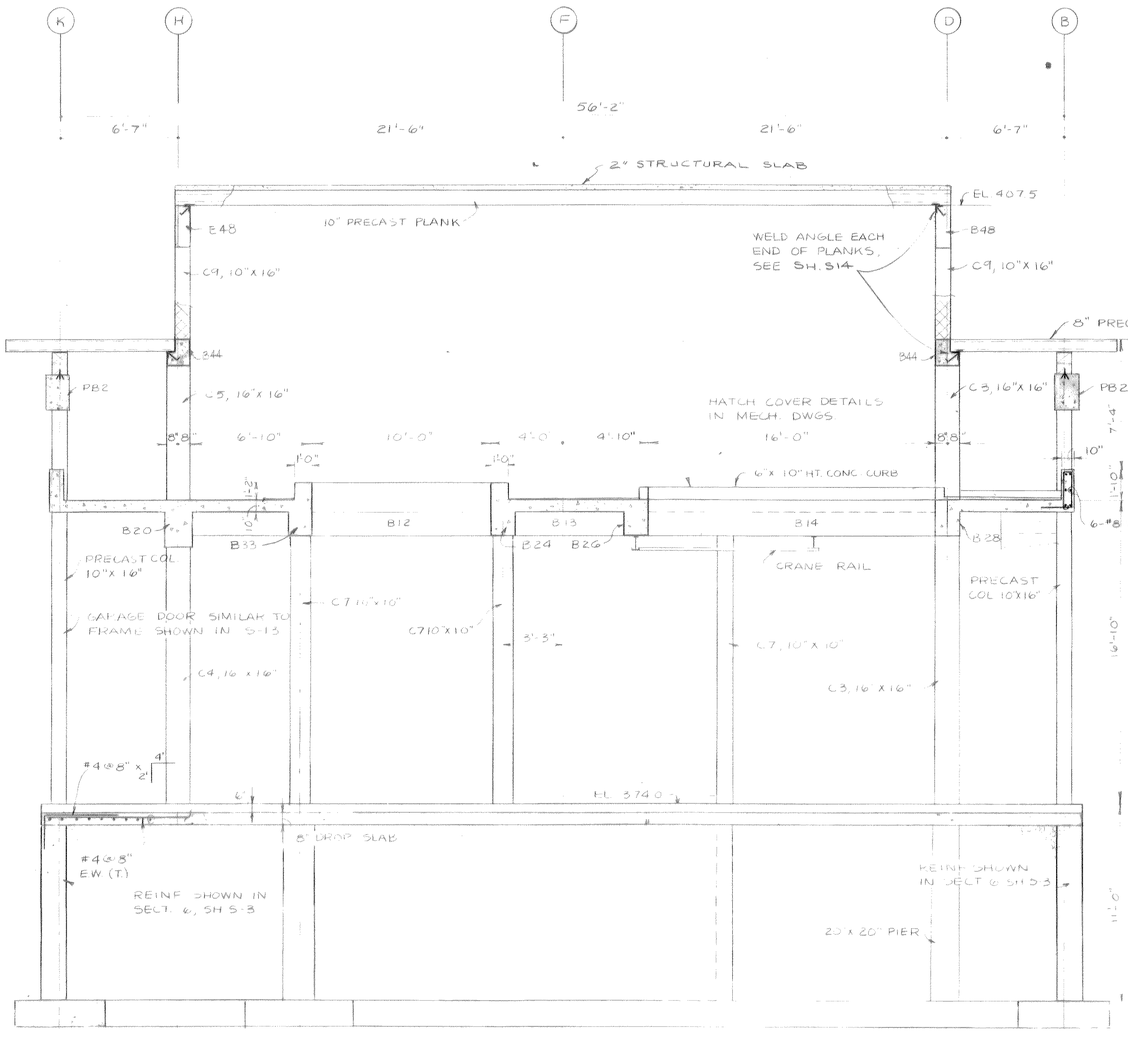
PROJECT SUPERVISOR: Arnold L. Fong
APPROVED: S.G. Brisbin

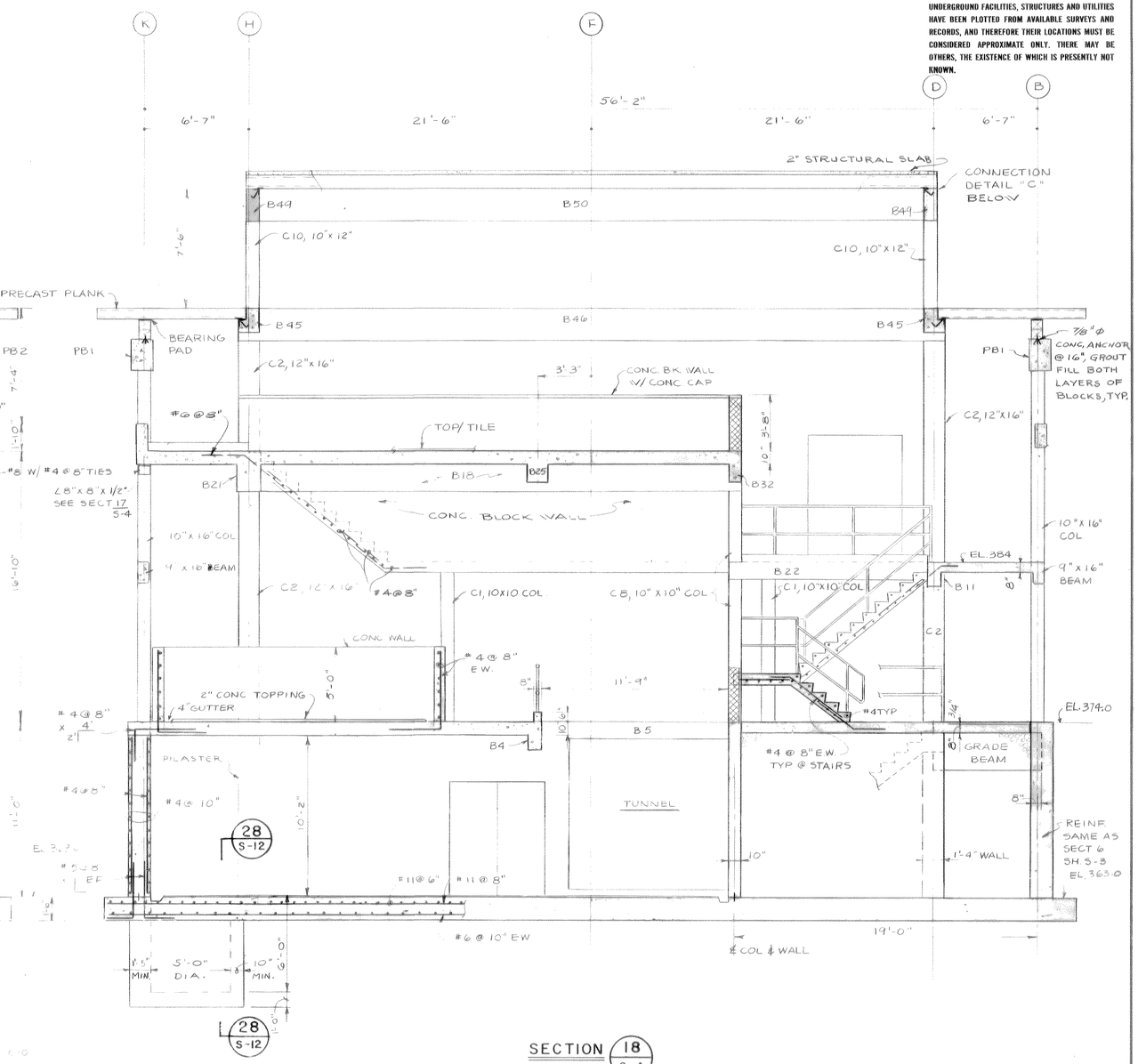
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SECTIONS & DETAILS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET S-11

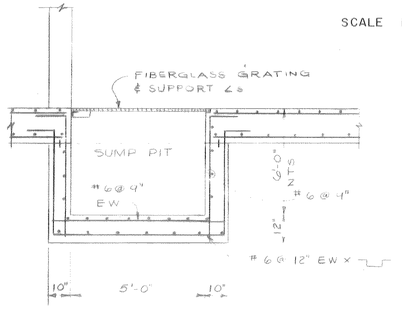
142

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

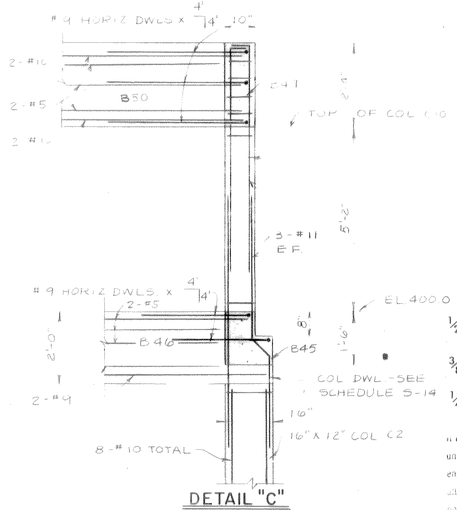




SECTION 2 / S-4
SCALE 1/4" = 1'-0"



SECTION 28 / S-12
SCALE 3/8" = 1'-0"



DETAIL "C"
ROOF BEAM & COLUMN CONNECTIONS
SCALE 1/2" = 1'-0"

SECTION 18 / S-4
SCALE 1/4" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per F&D

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

1/2" = 1'0" 0 1 2 3 4 5
3/8" = 1'0" 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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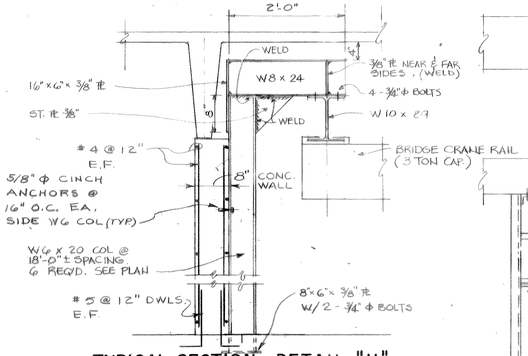
LICENSED PROFESSIONAL ENGINEER STERLING G. BRINKERHOFF 71810 REGISTERED TO PRACTICE IN THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION			WJG	SGB	2/24/78
1	FOR APPROVALS				SGB	3/31/76
	P.S.	3/30/76	ALT	JEI		

PROJECT SUPERVISOR Arnold L. Hong APPROVED S.G. Brinkerhoff

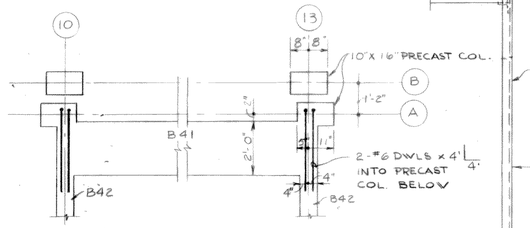
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING SECTIONS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT
JOB NO. 577 CONTRACT NO. 1 SHEET S-12

C41

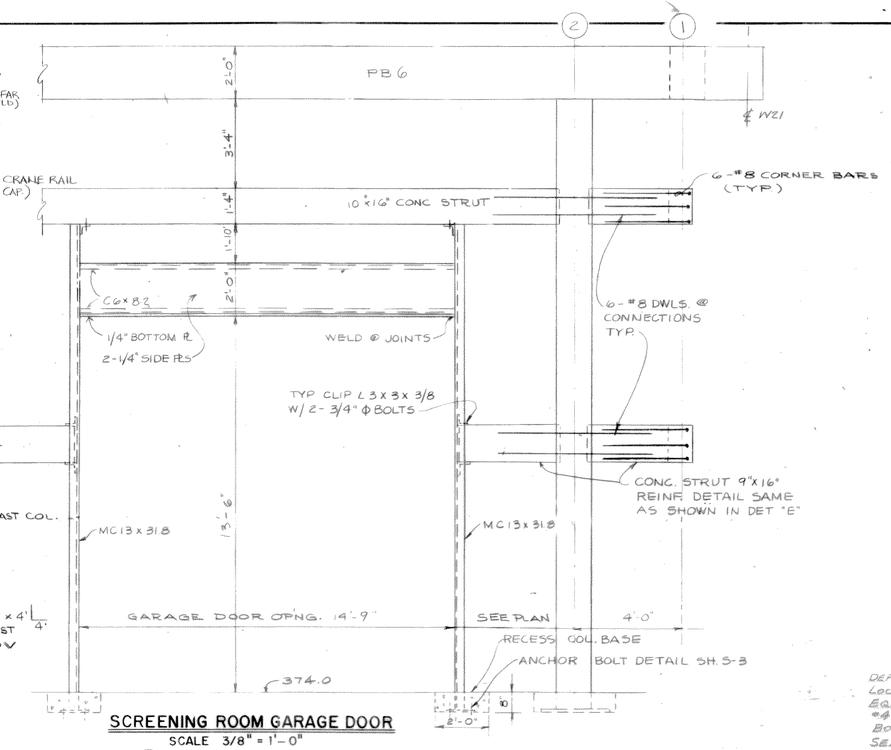


TYPICAL SECTION - DETAIL "H"
BRIDGE CRANE SUPPORT

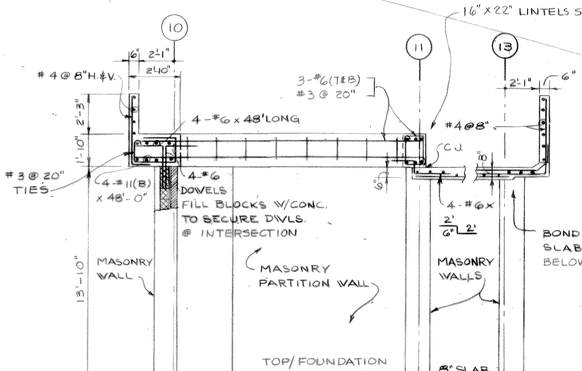
SCALE 3/4"=1'-0"



PLAN - DETAIL "G"
SCALE 3/8"=1'-0"

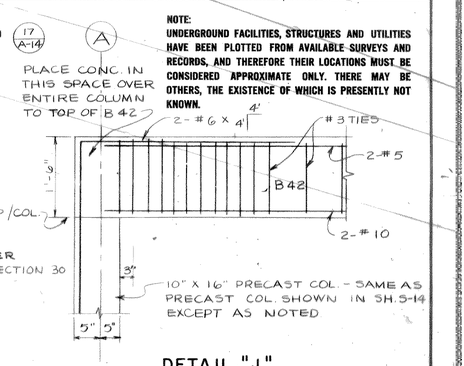


SCREENING ROOM GARAGE DOOR
SCALE 3/8" = 1'-0"

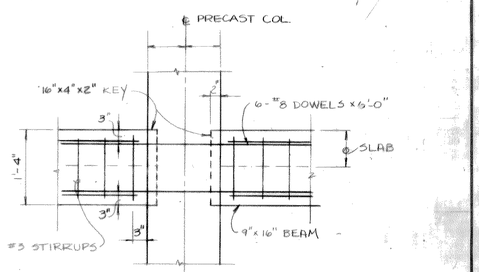


DEPTH 12" SET 6" IN STONE
LOC & ANCHORAGE BY APPROVED EQUIPT LAYOUT. REINF. 2 LAYERS #4 @ 12" EW 3" CLEAR, 3" CLEAR BOT TO ALLOW CHANNEL EMBEDMENT
SELECT FILL - 2' OF D-2 STONE

SECTION 23/S-4
SCALE 1/4"=1'-0"



DETAIL "J"
SCALE 3/4"=1'-0"



DETAIL "E"
SCALE 3/4"=1'-0"

NOTE:
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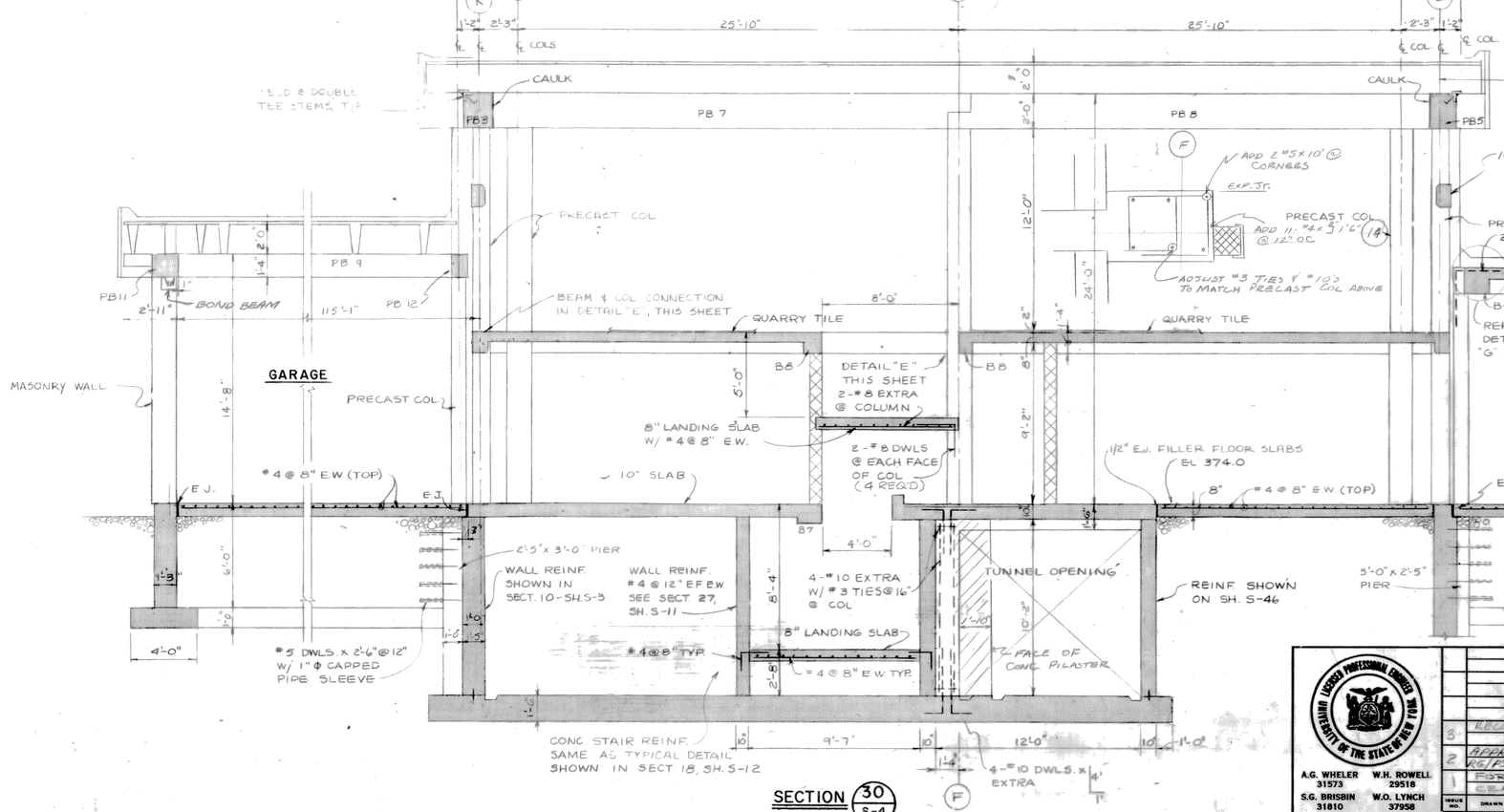

SECTION 30/S-4
SCALE 1/4"=1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 By FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/4"= 1'0" 1 0 1 2 3
3/8"= 1'0" 1 0 1 2 3 4 5 6 7
1/4"= 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

A.G. WHELER 31573 | W.H. ROWELL 29518
S.G. BRISBIN 31810 | W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

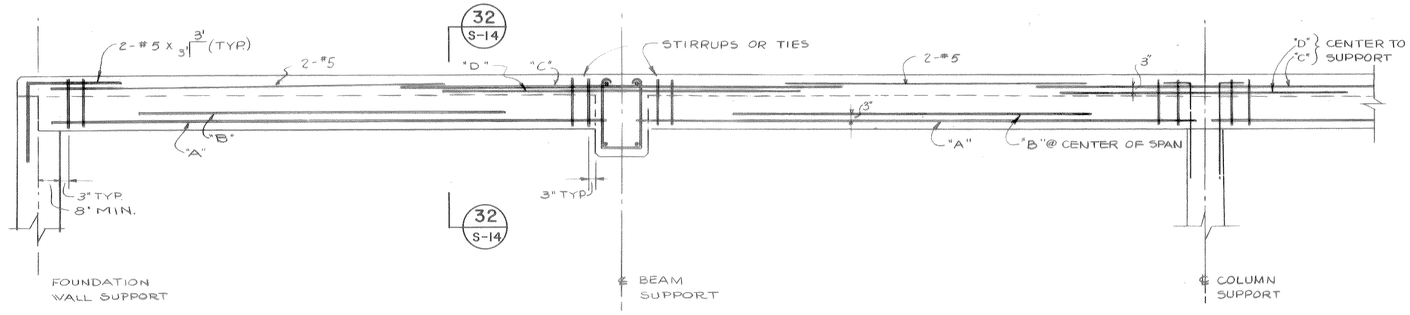
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				W.S.	7/6/83
2	APPROVED FOR CONSTRUCTION				S.W.	6/24/78
1	FOR APPROVALS				S.W.	3/31/78

PROJECT SUPERVISOR S. G. Brisbin APPROVED

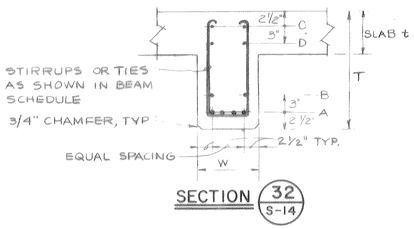
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SECTIONS & DETAILS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

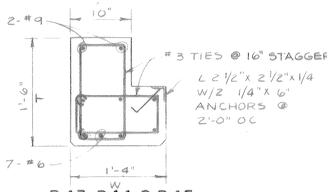
JOB NO. 577 | CONTRACT NO. 1 | SHEET S-13



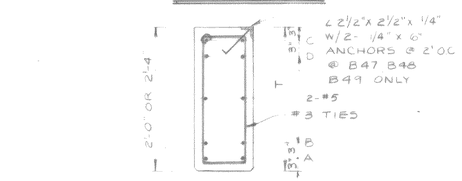
TYPICAL BEAM DETAIL



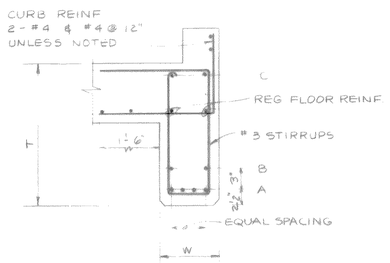
SECTION 32 S-14



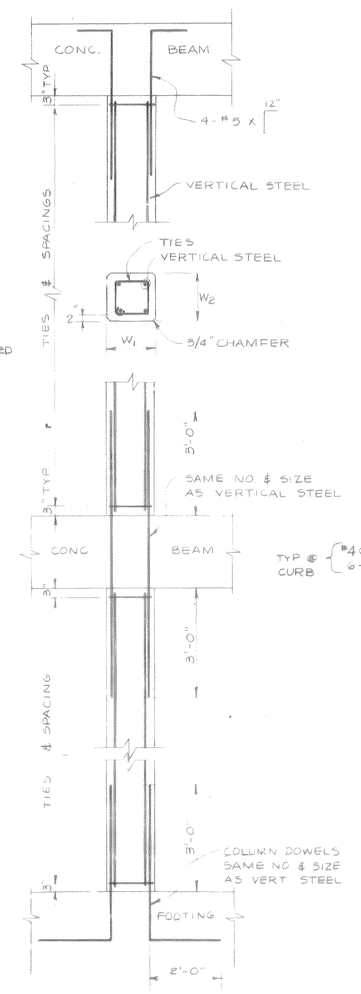
B43, B44, & B45



B46 – B50



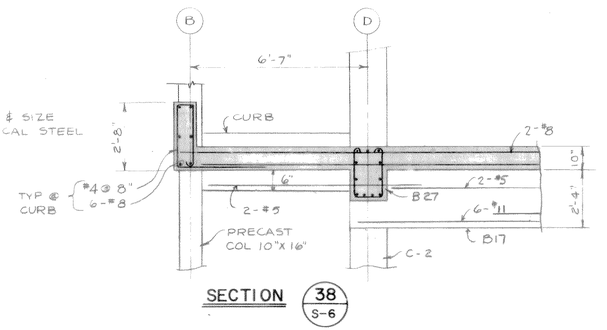
BEAM SECTION AT FLOOR OPENING



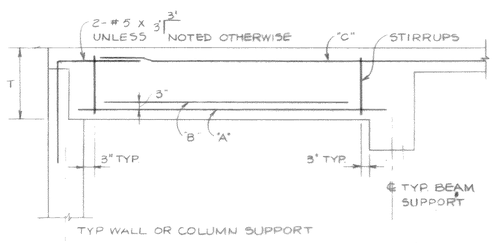
TYPICAL COLUMN DETAIL

COLUMN SCHEDULE

MARK	$W_1 \times W_2$	VERT. STEEL	TIES & SPACING	REMARKS
C1	10x10	4-#11	#3@10"	OFFICE AREA
C2	12x16	8-#10	#4@12"	FILTER AREA
C3	16x16	8-#9	#3@16"	do
C4	16x16	4-#9	#3@16"	EL 363 TO EL. 388.17
C5	16x16	4-#9	#3@16"	do
C6	14x14	4-#8	#3@14"	do.
C7	10x10	4-#7	#3@10"	LIME CONDG. AREA
C8	10x10	4-#7	#3@10"	do.
C9	10x16	4-#9	#3@10"	SIDE COLUMNS HIGH ROOF AREA
C10	10x12	6-#10	#3@10"	CORNER COLUMNS HIGH ROOF AREA



SECTION 38 S-6



SINGLE SPAN

RECORD DRAWING
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Date 9-8-83 Per FLD

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BEAM SCHEDULE

MARK	W (INCHES)	T (INCHES)	REINF. STEEL A	B	C	D	#3 STIRRUPS & SPACING FROM N. TO S. OR W. TO E. OF BLDG. UNLESS NOTED OTHERWISE	REMARKS
B1	12/16	36/24	4-#11	2-#9 x 24'	2-#5 x 28'	—	12@7"E.E., REMAINDER@11"	SCREENING ROOM
B2	12/16	36/24	2-#10 x 24' 2-#10 F.L.	—	2-#5 x 28'	—	S=11" F.L.	do.
B3	10	14	2-#6	—	2-#5 x 10'	—	4@6" E.E.	GENERATOR AREA
B4	14	22	2-#10 x 24' 2-#10	—	2-#5 x 26'	—	10@8"E.E, REMAINDER@10"	CHEMICAL FEED ROOM
B5	10	12	2-#5	—	—	—	NONE	TUNNEL OPENING
B6	10	12	3-#7	—	2-#4 x 10'	—	S=12" F.L.	STAIR LANDING
B7	12	12	2-#9	—	2-#5 x 10'	—	8@6"E.E., REMAINDER@12"	STAIR OPENING
B8	12	16	3-#9	—	2-#5 x 16'	—	8@6"E.E., REMAINDER@12"	OFFICE AREA
B9	12	21	3-#10	—	2-#5 x 24'	—	8@9"E.E., REMAINDER@18"	MEZZ.
B10	16	21	4-#11	2-#8 F.L.	2-#5 x 24'	—	12@5", REMAINDER@10"	MEZZ.
B11	10	18	2-#8	—	2-#5 x 12'	—	6@7"E.E., REMAINDER@14"	STAIR LANDING@EL.384 & OFFICE AREA
B12	16	24	3-#6	2-#6 F.L.	2-#9 x 16'	—	S=10" F.L.	FILTER AREA 3 SPAN CONT.
B13	16	24	3-#6	2-#6 F.L.			S=10" F.L.	
B14	16	24	3-#6	2-#6 F.L.	2-#9 x 16'	—	S=10" F.L.	
B15	18	24	3-#9	2-#6 F.L.	5-#11 x 14'	—	6@10", 13@8", REM. @ 4"	FILTER AREA 2 SPAN CONT.
B16	18	24	3-#10 2-#10 x 22'	2-#6 F.L.			28@3", REMAINDER@8"	
B17	24	38	6-#11	4-#11 x 38' 2-#11 x 30'	2-#8 x 40'	2-#5@MID-SECTION SH. 5-11x29'	18@4', 12@6" E.E., REM@16"	FILTER AREA
B18	14	32	3-#11	3-#11 x 26'	2-#5 x 29'	2-#5-SEE SH. 5-11x29'	S=14" F.L.	FILTER AREA
B19	18	24	3-#9	2-#9 x 25'	2-#11 x 28' 1-#11 x 10'	2-#11 x 10'	4 STIRR, 4@7"E.E., REM@10"	FILTER AREA 3 SPAN CONT.
B20	18	32	3-#9	2-#9 F.L.			4 STIRR, 14@15", 4@6", REM@3"	
B21	18	32	3-#11	2-#9 F.L.	2-#11 x 28' 1-#11 x 10'	2-#11 x 10'	4 STIRR, 12@4"EE, REM@15"	
B22	10	12	2-#6	—	2-#6 x 12'	—	NONE	STAIR LAND@EL.384
B23	18	24	3-#9	2-#11 x 25'	2-#11 F.L. 1-#11 x 12'	2-#11 x 12'	5@7", 21@11", REM. @ 3"	FILTER AREA 3 SPAN CONT.
B24	18	24	3-#9	2-#6 F.L.			S=7" F.L.	
B25	18	24	3-#9	2-#6 F.L.	2-#11 F.L.	1-#6 x 12'	9@7", REM. @ 11"	
B26	18	24	3-#10	3-#10 x 21'	2-#5 x 24'	—	12@7"EE, REMAINDER@10"	FILTER AREA
B27	16	24	4-#10	2-#6 F.L.	2-#11 F.L. 1-#11 x 12'	2-#11 x 12'	26@10", 13@4", REM.@3"	FILTER AREA 3 SPAN CONT.
B28	16	24	4-#10	2-#6 F.L.			15@4", REMAINDER@10"	
B29	10	24	2-#6	2-#6 F.L.	2-#11 F.L.	—	S=10" F.L.	
B30	10	24	2-#9	—	2-#9 x 11'	—	S=12" F.L.	LIME BIN AREA
B31	10	24	2-#8	—	2-#8 F.L. x 16'	—	S=10" F.L.	LIME BIN AREA 2 SPAN CONT.
B32	10	24	2-#8	—			S=10" F.L.	
B33	16	24	3-#9	—	3-#9 F.L.	—	S=10" F.L.	FILTER AREA 2 SPAN CONT
B34	16	24	3-#9	—			S=10" F.L.	
B35	13	24	3-#9	—	3-#10 x 24'	—	6@6"E.E, REMAINDER@12"	OFFICE AREA 3 SPAN CONT. REFER TO B7 S-6
B36	13	24	3-#9	—			do.	
B37	13	24	3-#9	—	3-#10 x 24'	—	do.	
B38	18	22	4-#10	—	2-#10 F.L. 2-#10 x 14'	—	16@11", REMAINDER@4"	do.
B39	18	22	4-#10	—	2-#10 F.L.	—	12@4"E.E, REMAINDER@11"	
B40	18	22	4-#10	—	2-#10 x 14'	—	12@4", REMAINDER@11"	
B41	24	18	6-#11	—	2-#11 x 39'	—	S = 8" F.L.	SWITCH GEAR ENTRANCE AREA
B42	8	18	2-#10	—	2-#5 x 20'	—	12@3"E.E., REM.@8"	do.
B43	16	18	4-#6	3-#6 F.L.	2-#9 F.L.	—	SEE BEAM DETAIL	FILTER AREA ROOF BEAMS 3 SPAN CONT
B44	16	18	4-#6	3-#6 F.L.			do.	
B45	16	18	4-#6	3-#6 F.L.	2-#9 F.L.	—	do.	
B46	12	24	2-#9	2-#9 F.L.	2-#5 F.L.	2-#5 F.L.	S= 24" F.L.	FILTER AREA ROOF BM.
B47	10	28	2-#10	2-#10 F.L.	2-#10 F.L.	2-#10 F.L.	S= 24" F.L.	HIGH ROOF AREA 3 SPAN CONT.
B48	10	28	2-#10	2-#10 F.L.			S= 24" F.L.	
B49	10	28	2-#10	2-#10 F.L.	2-#10 F.L.	2-#10 F.L.	S= 24" F.L.	
B50	12	28	2-#10	2-#10 F.L.	2-#10 F.L.	2-#5 F.L.	S= 24" F.L.	HIGH ROOF AREA

F L = FULL LENGTH
E E = EACH END

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

NO SCALE

LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

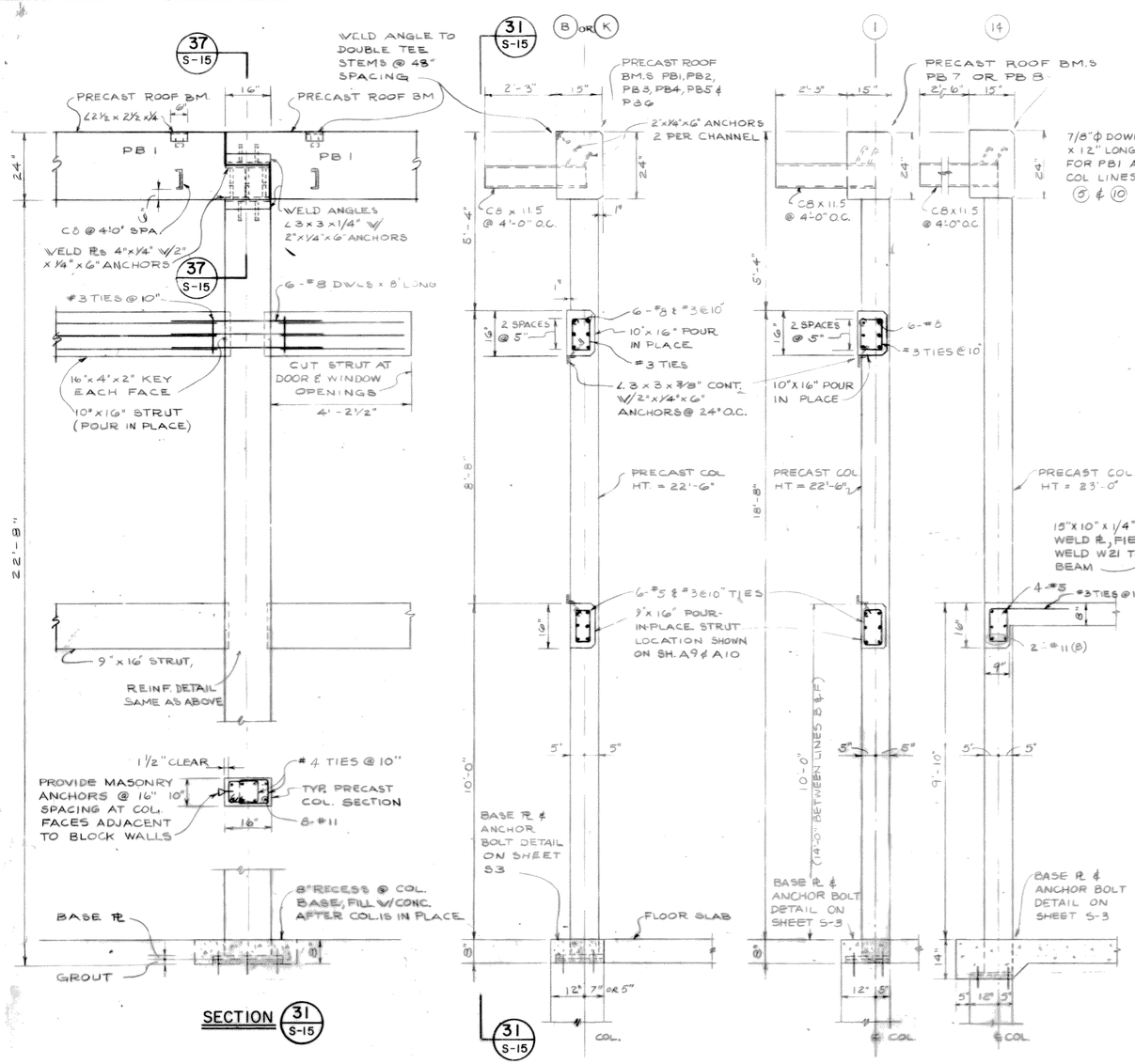
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	PS 2/5/76	ALT	ALT	S.G.B	2/24/76
1	FOR APPROVALS	PS 1/30/76	ALT	JET	S.G.B	1/31/76

PROJECT SUPERVISOR: Arnold L. Frey
APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
COLUMN & BEAM SCHEDULE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-14



NOTE:
1. INSERTS OR PLATES IN POURED CONCRETE FOR PRECAST OR PRESTRESSED CONCRETE SHALL BE FURNISHED BY THOSE MANUFACTURERS TO GENERAL CONTRACTOR FOR INSTALLATION
2. ALL PRECAST CONCRETE BEAMS & COLUMNS SHALL BE PROPERLY BRACED UNTIL MASONRY WALLS ARE IN PLACE

RECORD DRAWING
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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
W.H. ROWELL 29518
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/16/83
2	APPROVED FOR CONSTRUCTION				S.G.B	2/24/78
	RFQ	6/5/76	ALT	JNT		
1	FOR APPROVALS				S.G.B	3/31/76
	RFQ	8/30/76	ALT	JET		

PROJECT SUPERVISOR: APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PRECAST COLUMN & BEAM DETAILS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-15

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DETAIL "B"

DETAIL "C"

DIGESTER TANKS
CORNER BAR DETAILS
SCALE 1/4"=1'-0"

PLAN
SCALE 1/8"=1'-0"
FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

SECTION
SCALE 1/4"=1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				WJS	9/8/83
2	APPROVED FOR CONSTRUCTION				SLB	4/24/78
1	FOR APPROVALS				SLB	2/15/78
	RFG 2/5/78	WJG	ALT			

PROJECT SUPERVISOR Donald A. Young APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 1 & NO. 2
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-16

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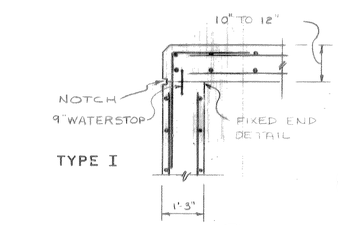
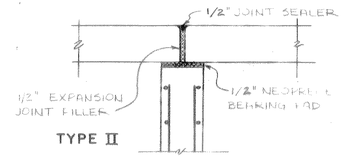
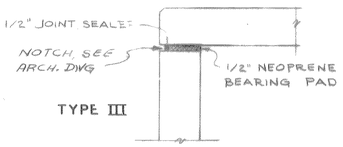


SECTION 1 / S-17



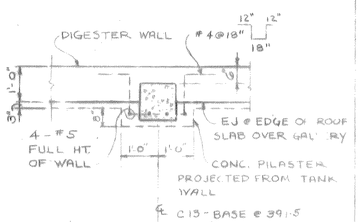
SECTION 2 / S-17



SECTION 3 / S-17

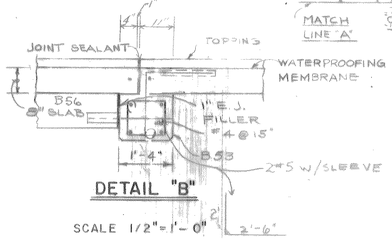
TANK COVER SUPPORT DETAILS

SCALE 1/2 "=1'-0"



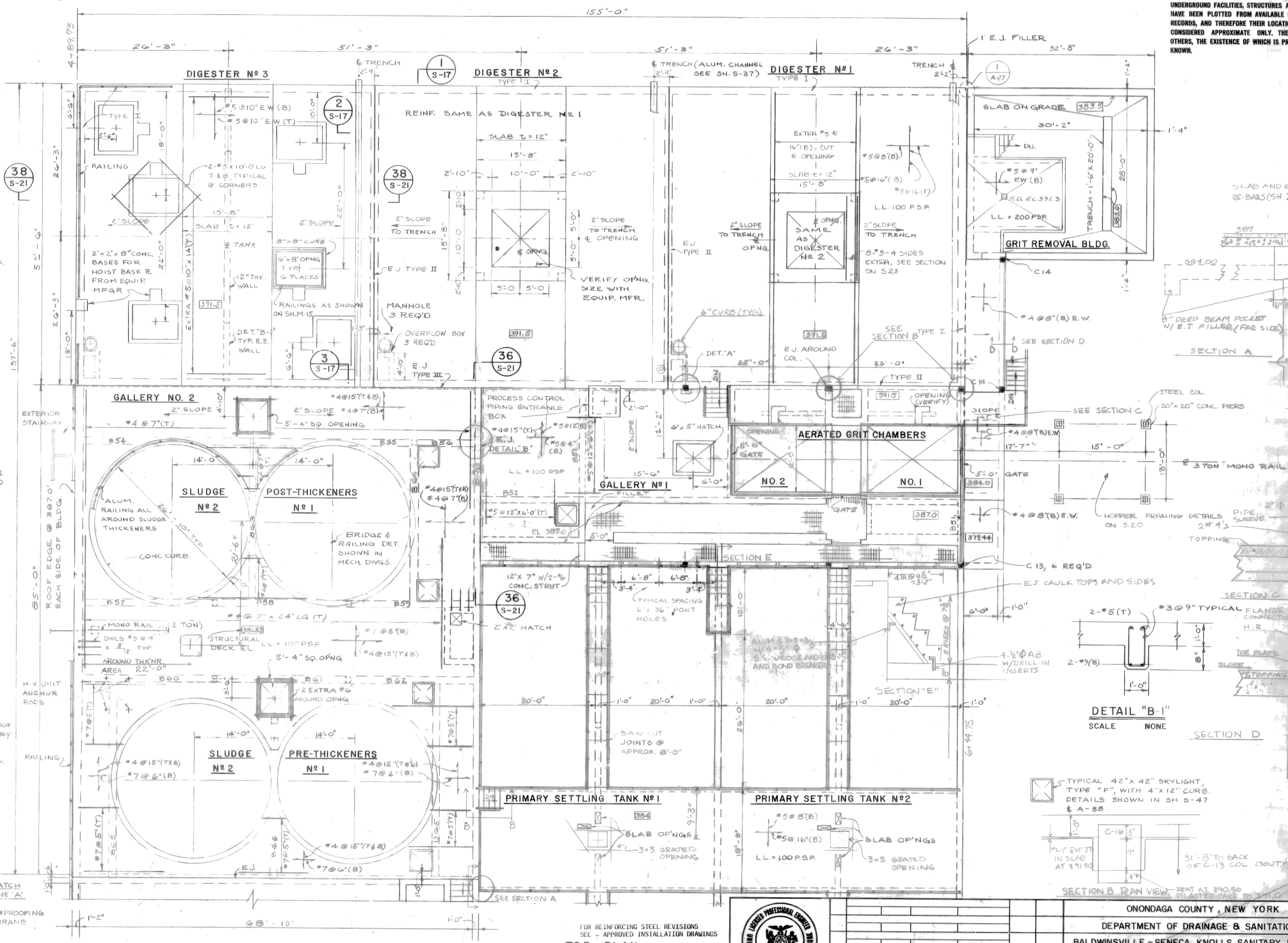
DETAIL "A"

SCALE 1/2"=1'-0"



DETAIL "B"

SCALE 1/2"=1'-0"



RECORD DRAWING

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Date 9-8-83 Per FLD

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FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

TOP PLAN

SCALE 1/8"= 1'-0"

½" = 1'0" 1 0 1 2 3 4 5

⅛" = 1'0" 8 4 0 8 16

LICENSED PROFESSIONAL ENGINEER — COMMONWEALTH OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 33959
Not valid without approval signature

No.	Description	Date	Checked	Designer	Approved	Date
3	RECORD					
2	APPROVED FOR CONSTRUCTION	9/5/78	WJG	ALT		
1	FOR APPROVALS	7/30/78	JET			

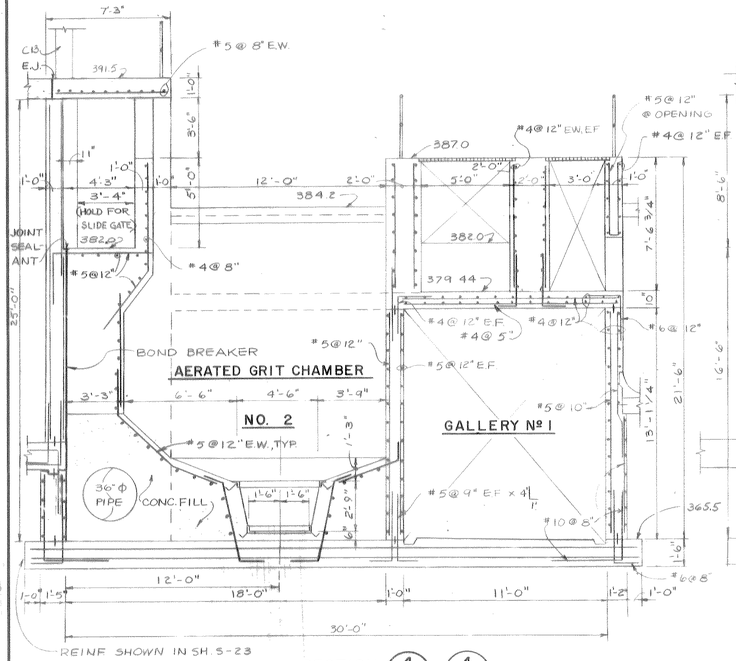
PROJECT SUPERVISOR: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 1 & NO. 2
UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

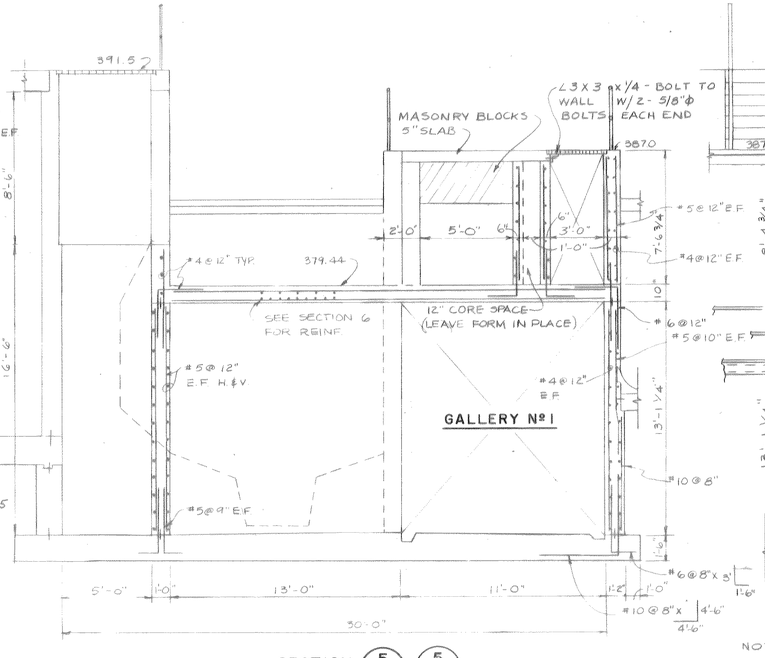
JOB NO. 577 | CONTRACT NO. 1 | SHEET S-17

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



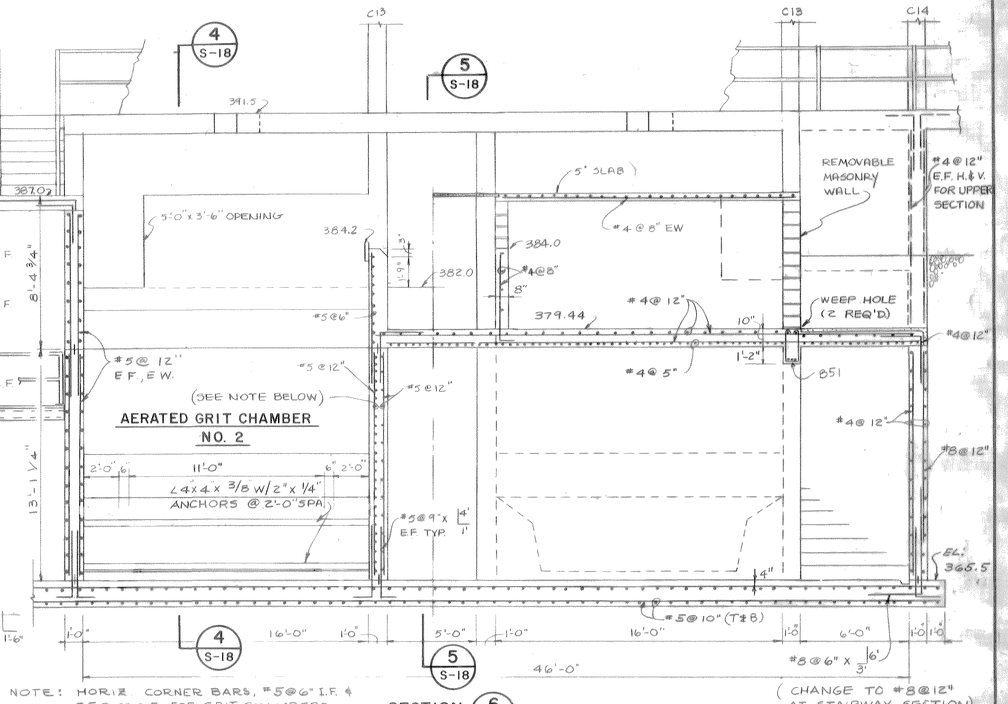
SECTION 4 S-18 / 4 S-16

SCALE 1/4"= 1'-0"



SECTION 5 S-18 / 5 S-16

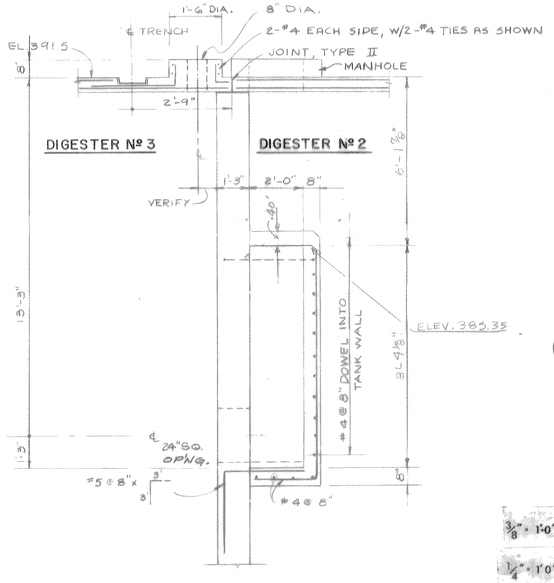
SCALE 1/4"= 1'-0"



NOTE: HORIZ. CORNER BARS, #5@6" I.F. & #5@12" O.F. FOR GRIT CHAMBERS SIMILAR TO DETAILS SHOWN ON SHEET NO. S-26

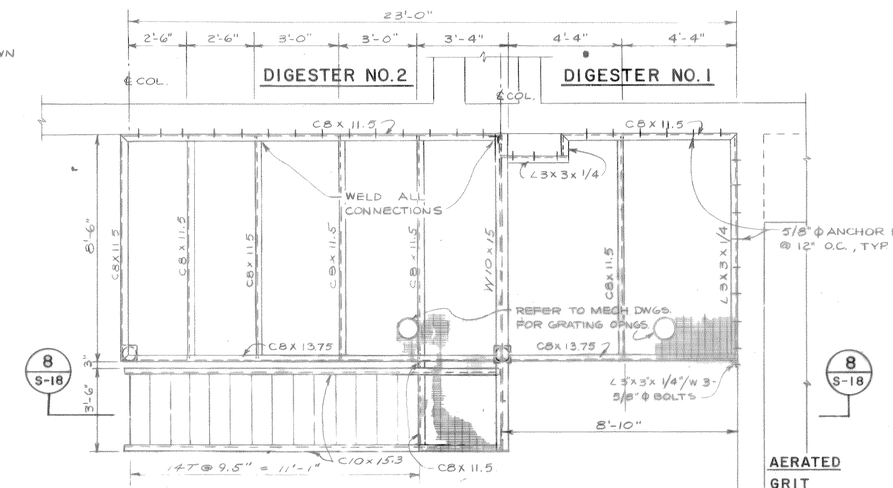
SECTION 6 S-16

SCALE 1/4"= 1'-0"



SECTION 7 S-16

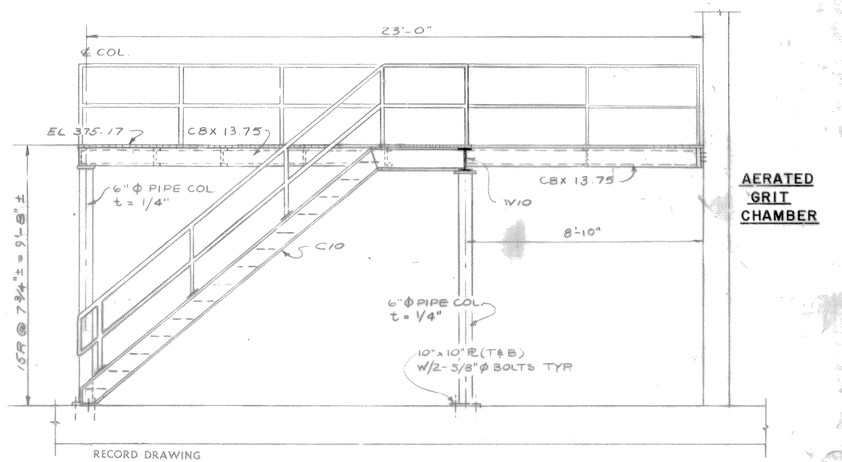
SCALE 3/8"= 1'-0"



PLATFORM FRAMING PLAN

GALLERY NO. 1

SCALE 3/8"=1'-0"



RECORD DRAWING

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Date 9-8-83 Per FLD

SECTION 8 S-18

SCALE 3/8"= 1'-0"

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'-0"

1/4" = 1'-0"

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A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				K.S.	9/8/83
2	APPROVED FOR CONSTRUCTION RC/PS	2/6/78	ALT	ALT	S.G.B.	2/24/78
1	FOR APPROVALS CEW/RC	3/30/76	W.J.C.	ALT	S.G.B.	3/31/76

PROJECT SUPERVISOR: Crawford L. Gray — APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT CHAMBERS & GALLERY NO. 1
SECTIONS
STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET S-18

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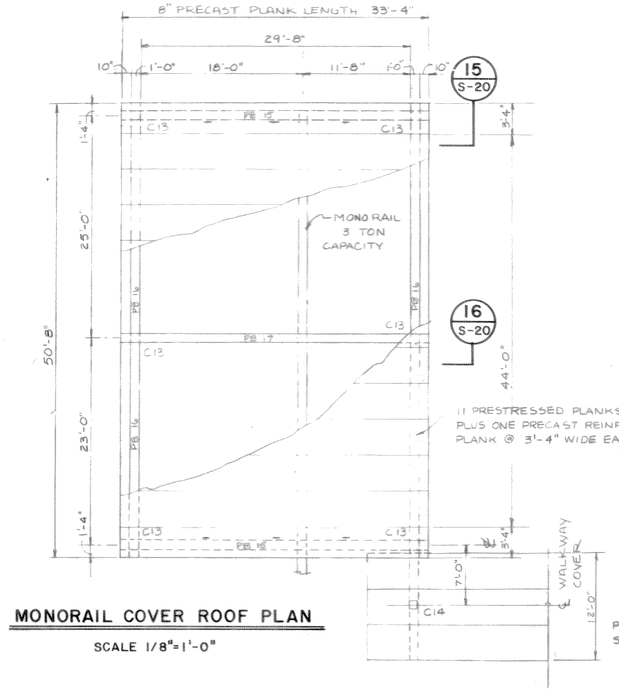
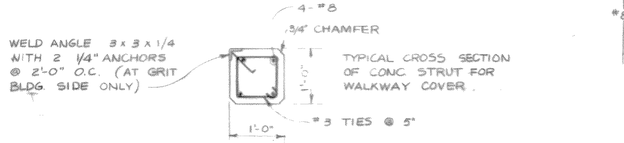


MONORAIL COVER ROOF PLAN

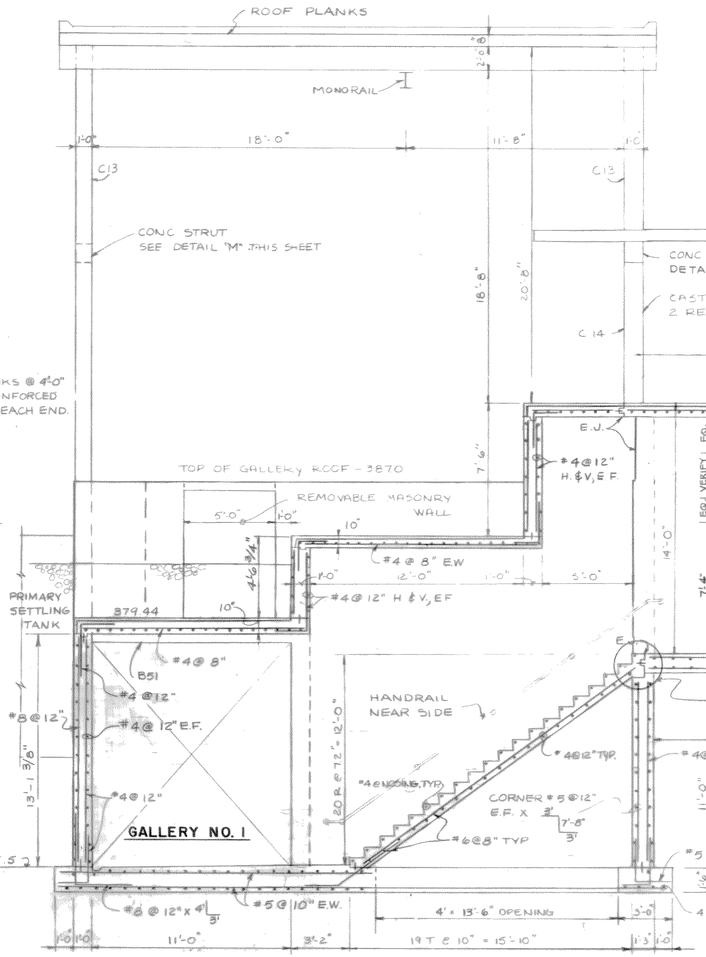
SCALE 1/8"=1'-0"



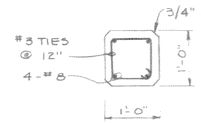
TYPICAL CROSS SECTION OF CONC. STRUT FOR WALKWAY COVER.

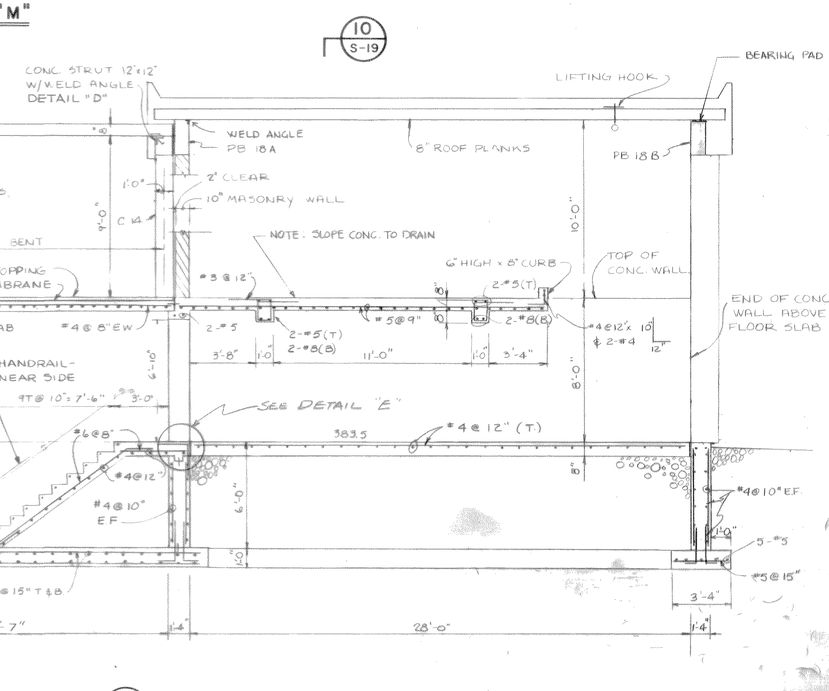
DETAIL "D"

NO SCALE



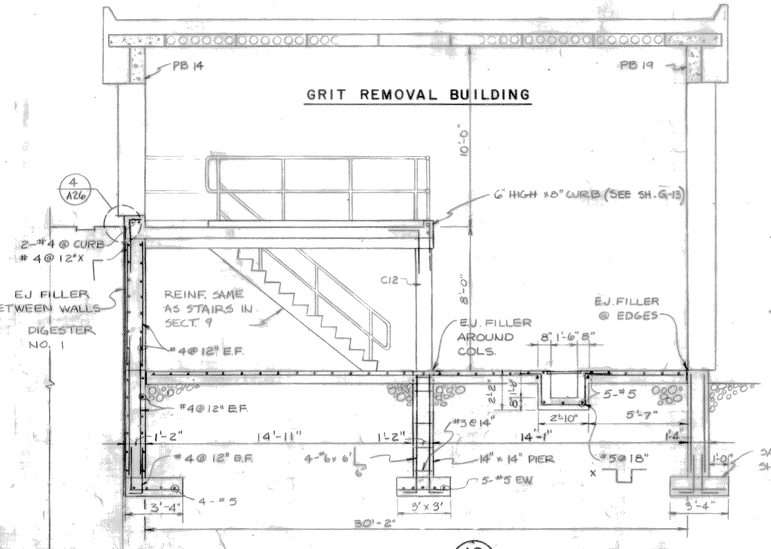
DETAIL "M"





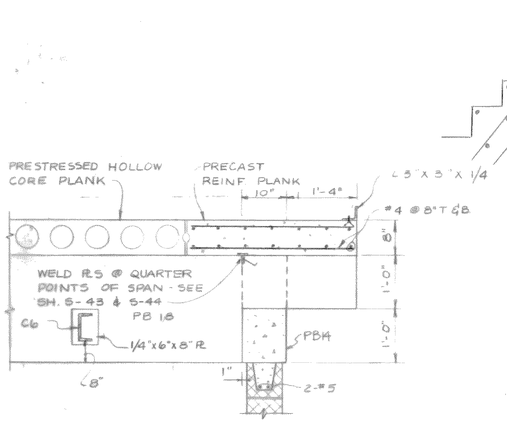
SECTION 9 S-16

SCALE 1/4"=1'-0"



SECTION 10 S-19

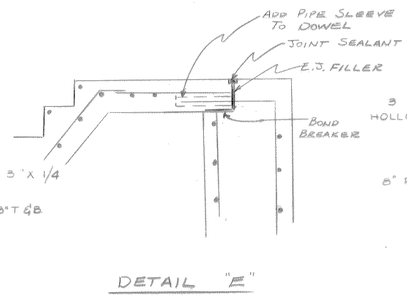
SCALE 1/4"=1'-0"



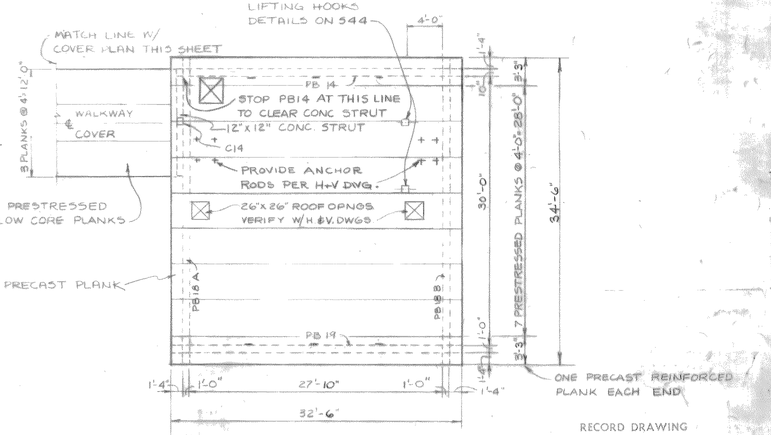
PRECAST BEAMS - PB 18 & PB 14

SCALE 3/4"=1'-0"

SAME REINF. AS SHOWN IN SECT. 9



DETAIL "E"



GRIT BUILDING ROOF PLAN

SCALE 1/8"=1'-0"

FOR REINFORCING STEEL REVISIONS
SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

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Date 9-8-83 Per FLD

3/4" = 1'0" 1 0 1 2 3
1/4" = 1'0" 2 0 2 4 6 8 10
1/8" = 1'0" 8 4 0 8 16

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				KS	9/8/83
2	APPROVED FOR CONSTRUCTION		RG/PS	P/5/76	ALT	SCB 2/24/76
1	FOR APPROVALS		CEA/PS	3/30/76	WJG ALT.	SCB 3/31/76

PROJECT SUPERVISOR: Clifford L. Gray
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BLDG. & CRANE RAIL COVER
SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-19

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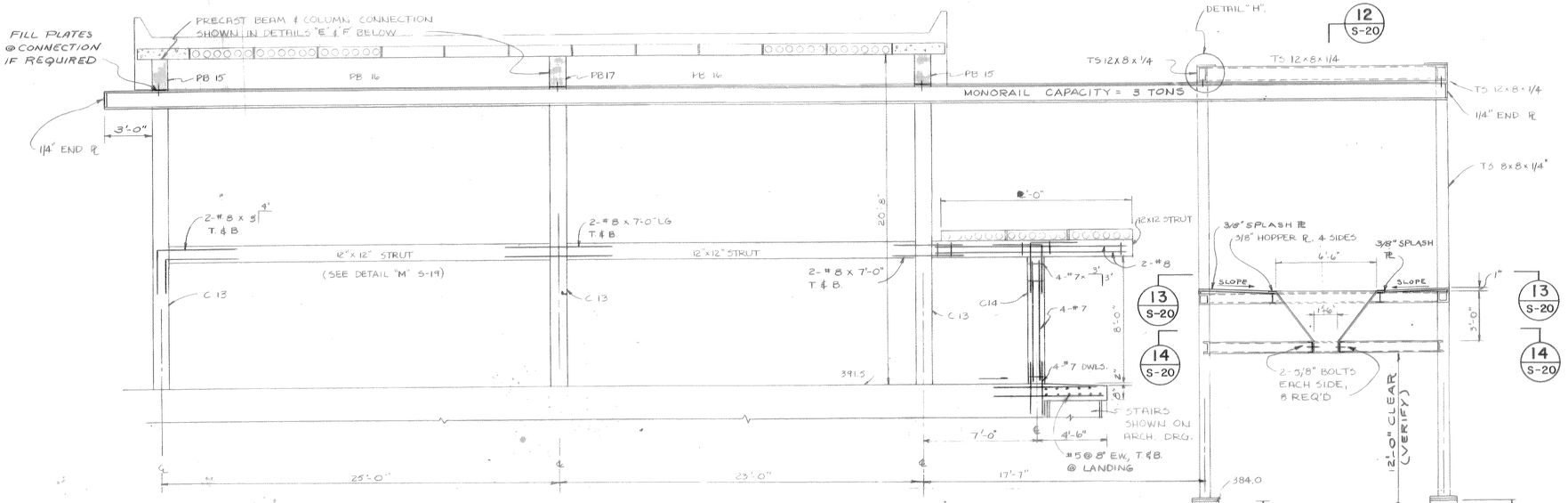
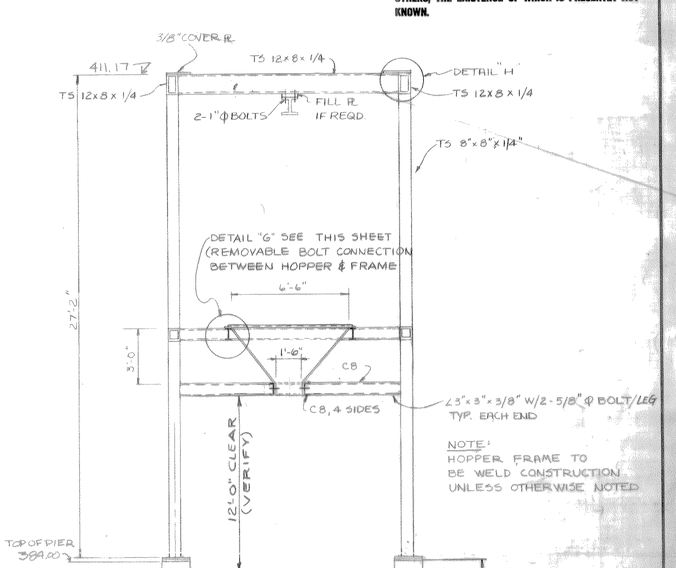
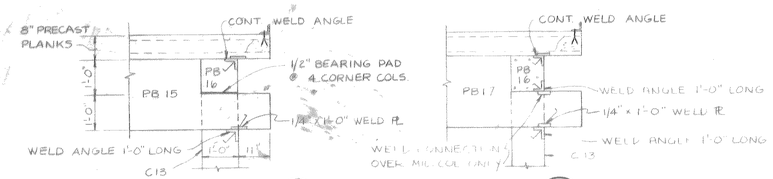




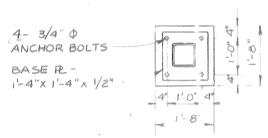


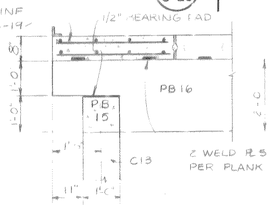
SECTION 11 S-16
SCALE 1/4"=1'-0"

SECTION 15 S-19
SCALE 1/2"=1'-0"

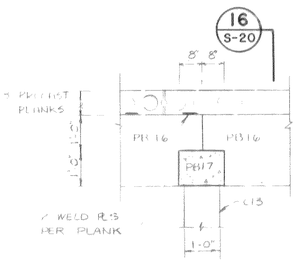
SECTION 16 S-19
SCALE 1/2"=1'-0"

SECTION 12 S-20
SCALE 1/4"=1'-0"

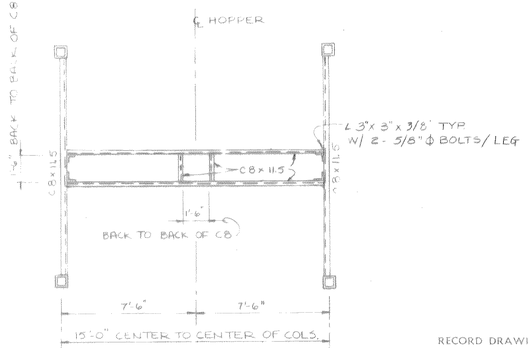




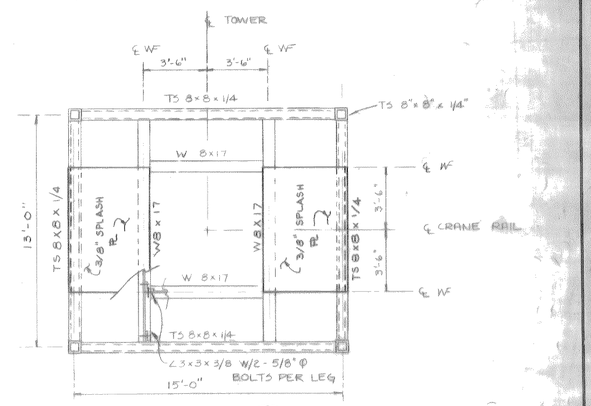
DETAIL "E"
SCALE 1/2"=1'-0"



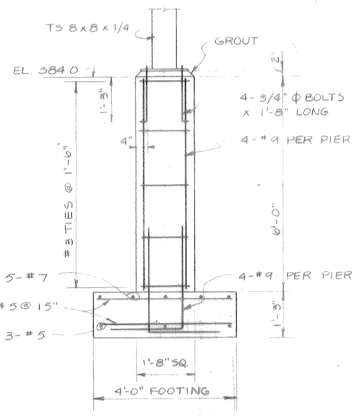
DETAIL "F"
SCALE 1/2"=1'-0"



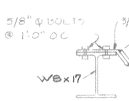
SECTION 14 S-20
SCALE 1/4"=1'-0"



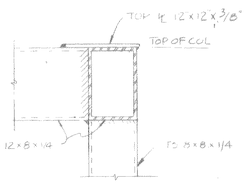
SECTION 13 S-20
SCALE 1/4"=1'-0"



COLUMN PIER DETAIL
SCALE 3/8"=1'-0"



DETAIL "G"
SCALE 1"=1'-0"



DETAIL "H"
TYPICAL BEAM CONNECTIONS
SCALE 1"=1'-0"

1" = 1'0" 1 6 0 1 2
1/2" = 1'0" 1 0 1 2 3 4 5
3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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A.G. WHEELER 31573
S.G. BRISBIN 31610 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

RECORD DRAWING
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Date 9-8-83 Per FLD

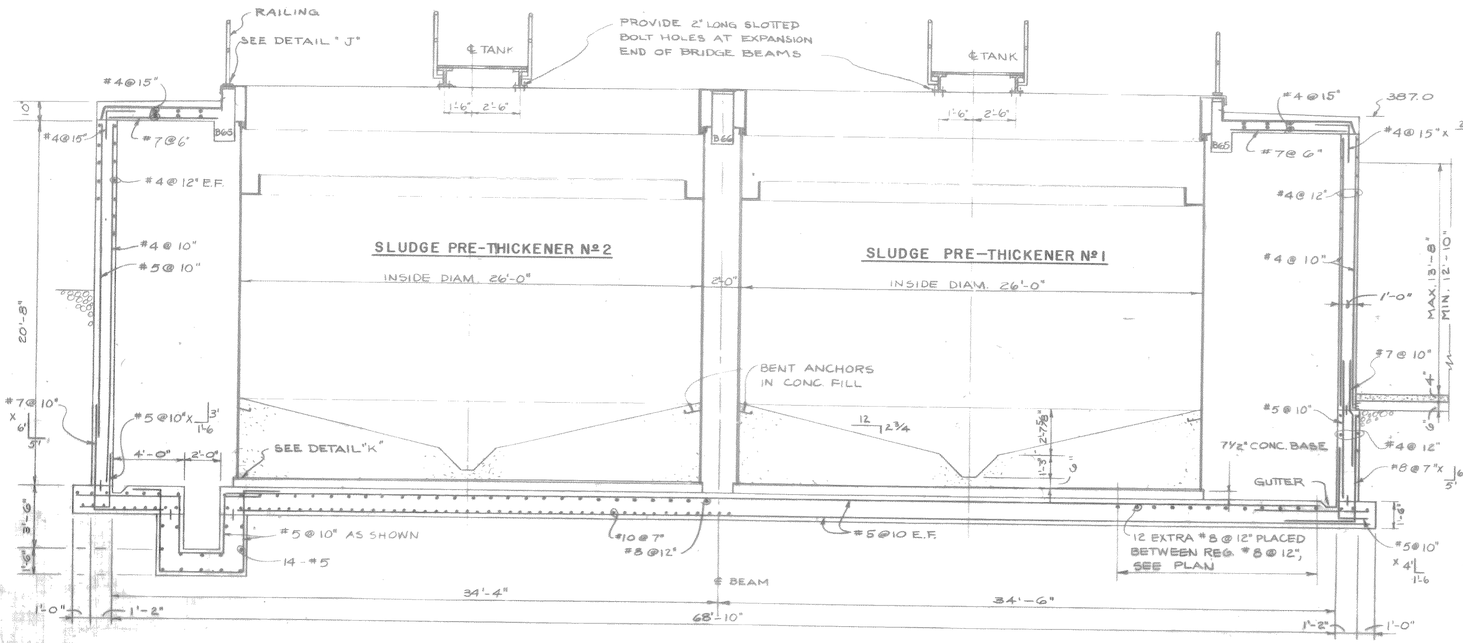
FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD					
2	APPROVED FOR CONSTRUCTION	RFG 2/5/76	ALT	ALT	SGB	2/24/76
1	FOR APPROVALS	CEA 3/30/76	WJG	ALT	SGB	3/31/76

PROJECT SUPERVISOR: Arnold D. Thorp
APPROVED: S.G. Brisbin

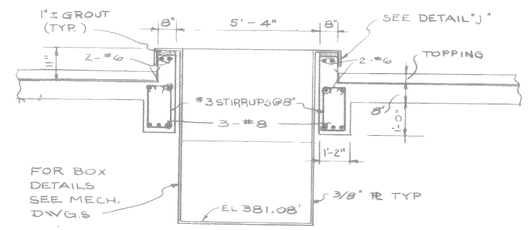
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CRANE RAIL COVER
& HOPPER SUPPORTING FRAME
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-20



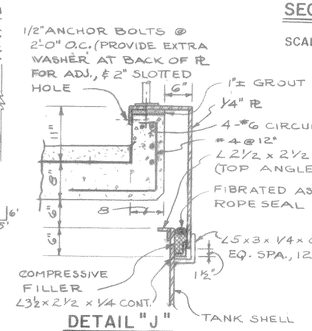
SECTION (19 / S-21)

SCALE 1/4"=1'-0"



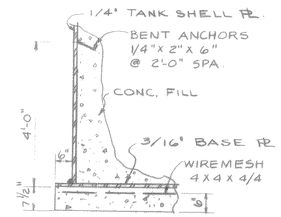
SECTION (19 / S-21)

SCALE 3/8"=1'-0"



DETAIL "J"

SCALE 3/4" = 1'-0"



DETAIL "K"

NO SCALE

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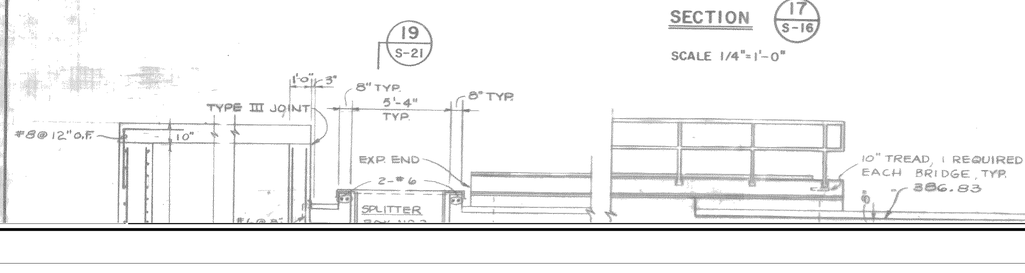

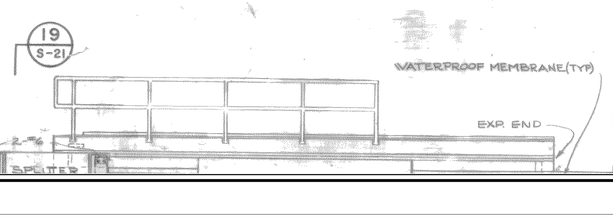

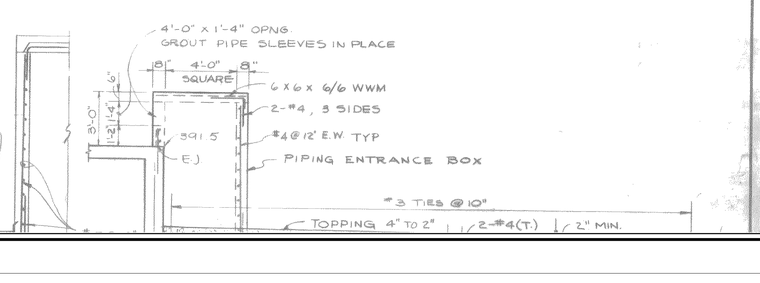

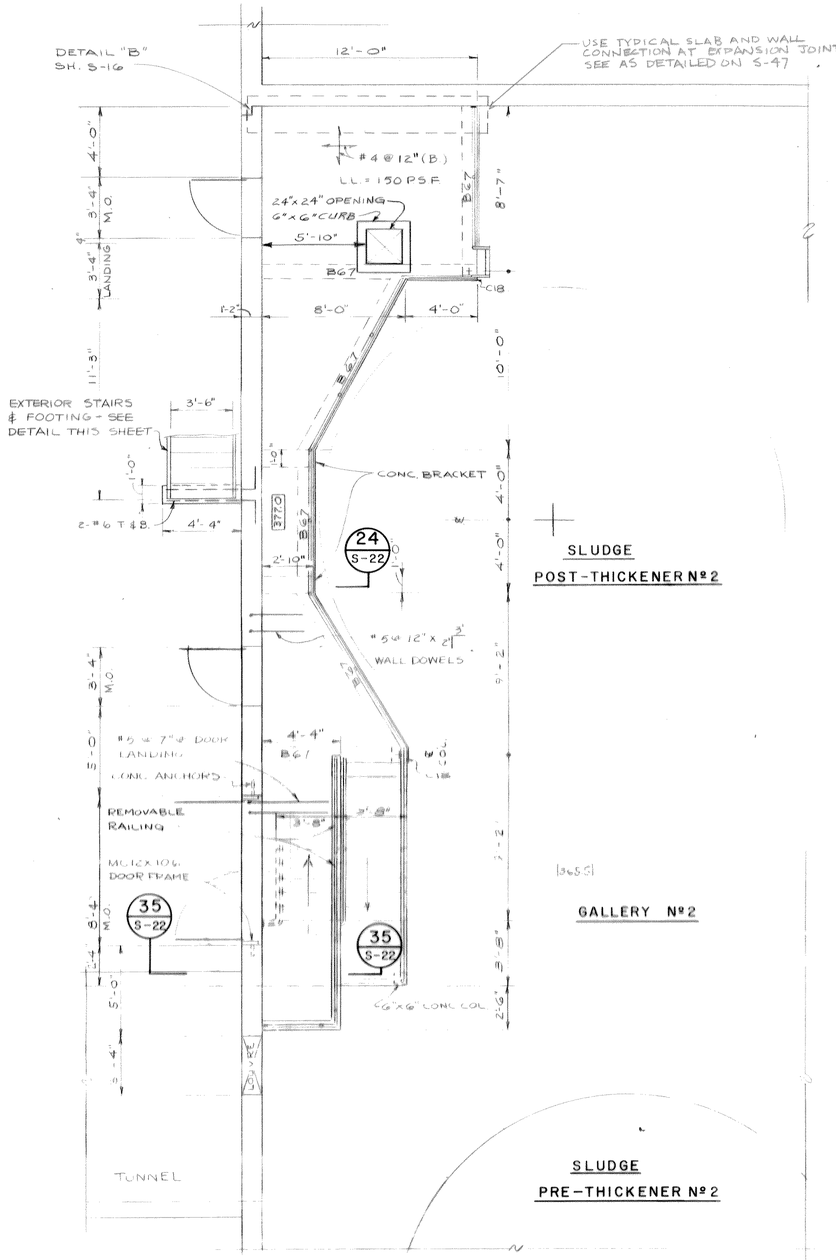

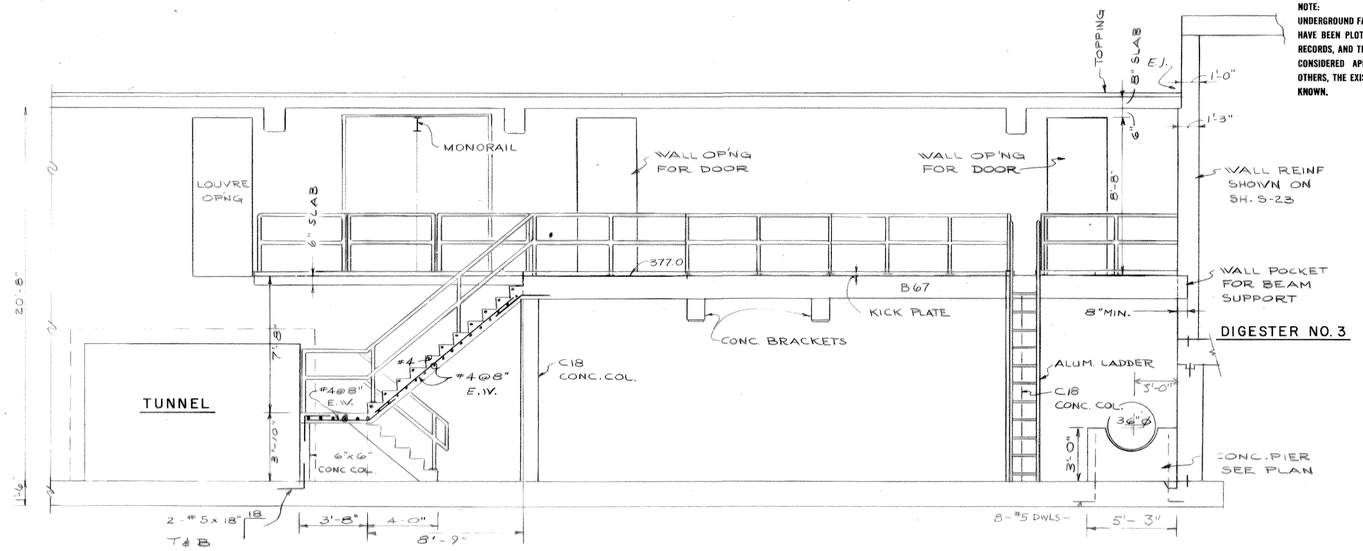

NOTE:
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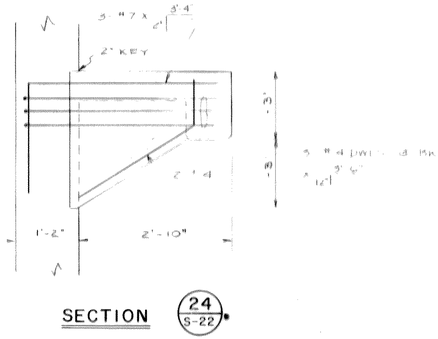
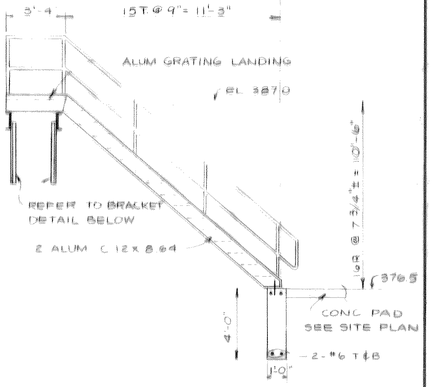
GALLERY 2 MEZZANINE ELEVATION

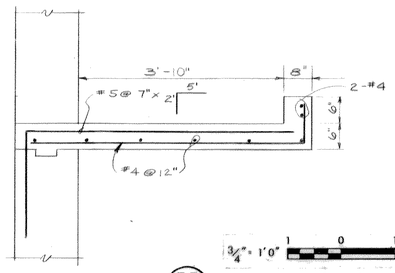
SCALE 1/4"=1'-0"



SECTION 24 S-22

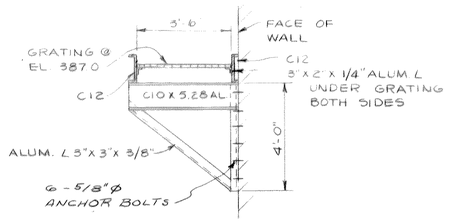
SCALE 3/4"=1'-0"





SECTION 35 S-22

SCALE 3/4"=1'-0"



BRACKET DETAIL

SCALE 3/8"=1'-0"

EXTERIOR STAIRWAY

SCALE 1/4"=1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/4"= 1'0" 1 0 1 2 3
1/2"= 1'0" 1 0 1 2 3 4 5
3/8"= 1'0" 1 0 1 2 3 4 5 6 7
1/4"= 1'0" 2 0 2 4 6 8 10

It is a violation of the New York State Education Law for any person unless he is acting under the direction of a licensed professional engineer, to alter this drawing in any way. If an item is altered, the altering engineer shall stamp the drawing with his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JCS	9/8/83
2	APPROVED FOR CONSTRUCTION				SGB	2/24/78
	RFG	2/5/78	ALT	ALT		
1	FOR APPROVALS				SGB	3/31/76
	RFG	3/30/76	WJG	ALT		

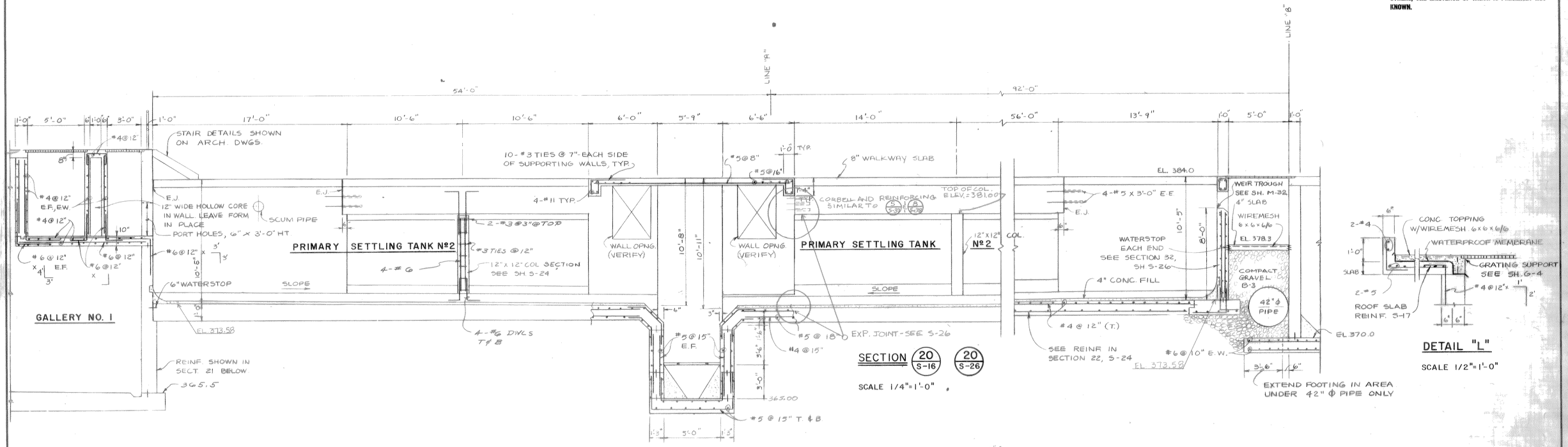
PROJECT SUPERVISOR: Arnold L. Long
APPROVED: S.G. Brisbin

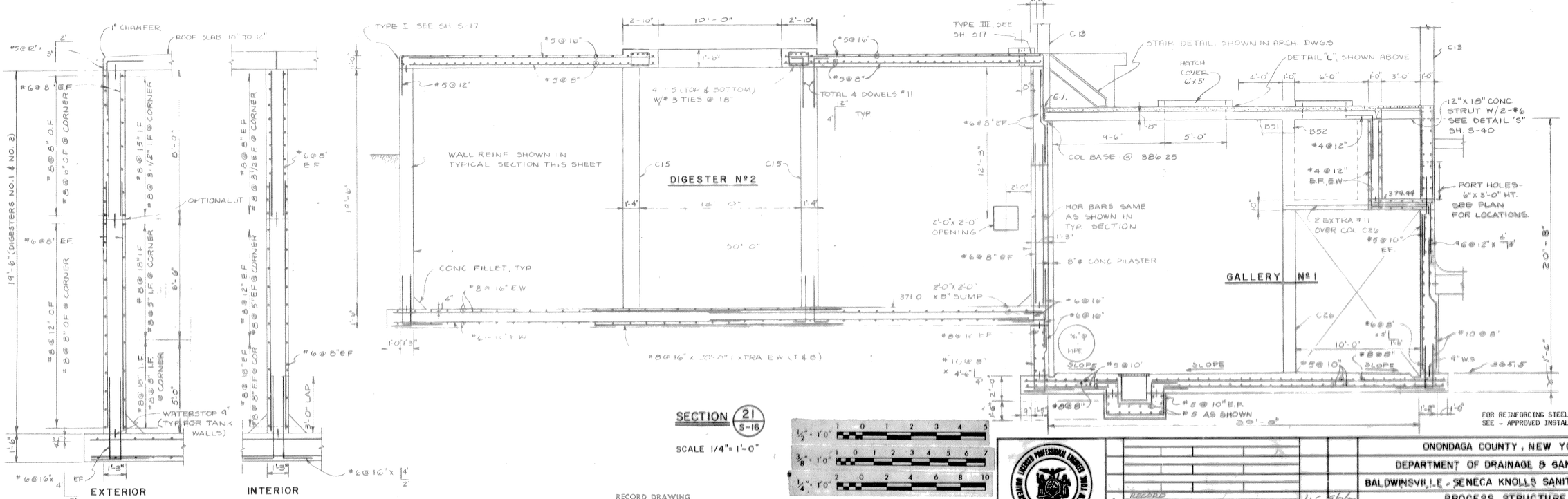
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
SLUDGE THICKENERS-MEZZANINE PLAN & SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-22

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per F.L.D.

1/2" = 1'0" 1 0 1 2 3 4 5
3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER THE UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LGS	9/8/83
2	APPROVED FOR CONSTRUCTION	RG/PS	2/5/82	LWG	DLT	SCB 9/24/82
1	FOR APPROVAL	CA/RG	3/20/81	LWG		SCB 4/1/81

PROJECT SUPERVISOR: Arnold L. Pfeil
APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
PRIMARY SETTLING TANK & DIGESTERS
SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-23

NOTE:
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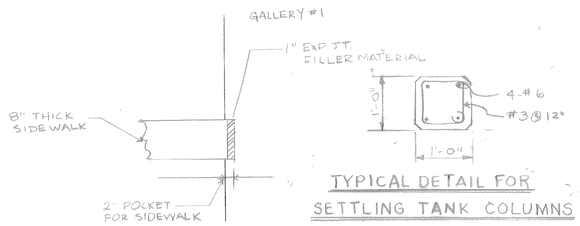
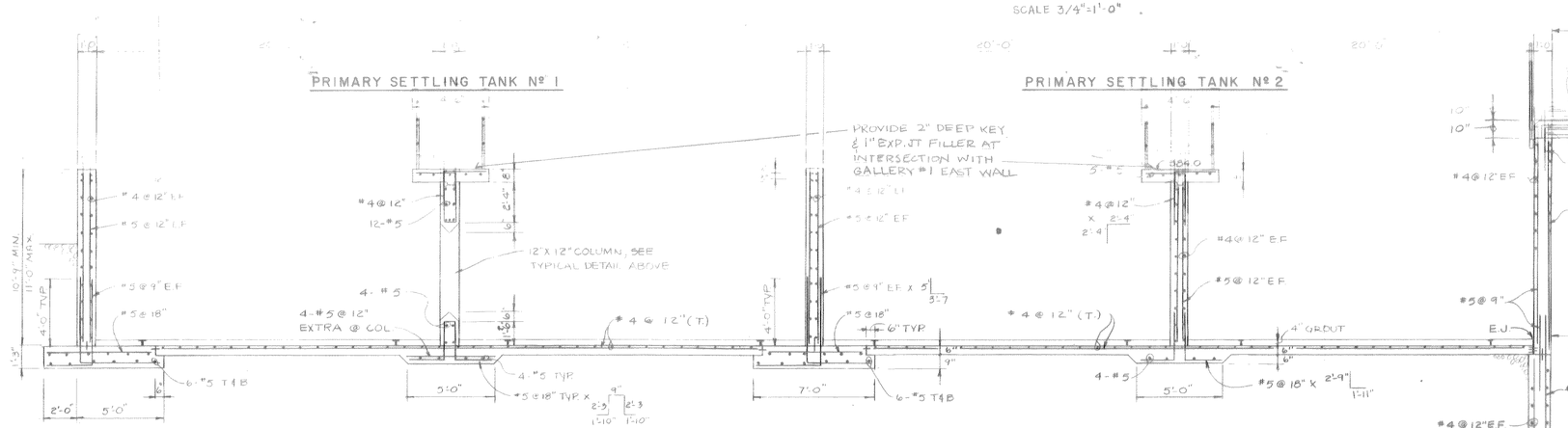


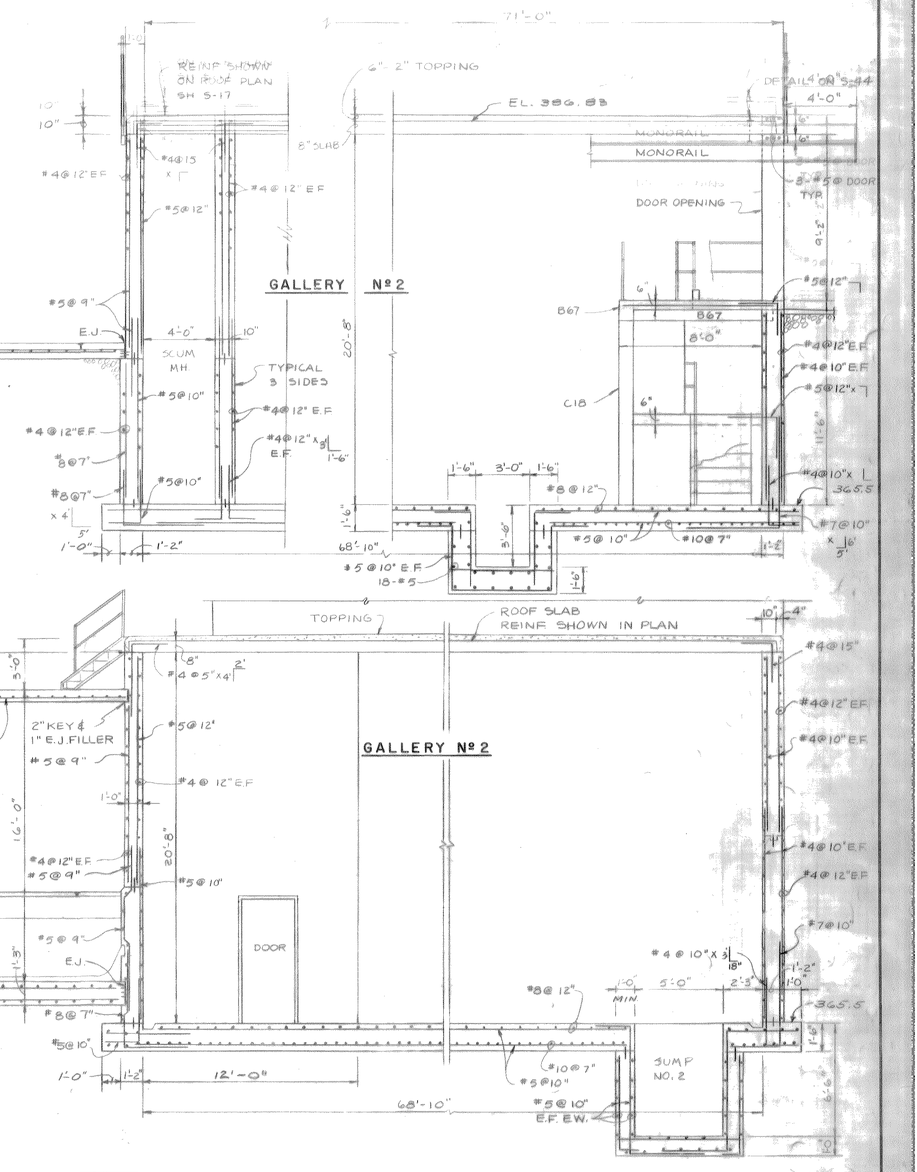
TYPICAL DETAIL FOR SETTLING TANK COLUMNS

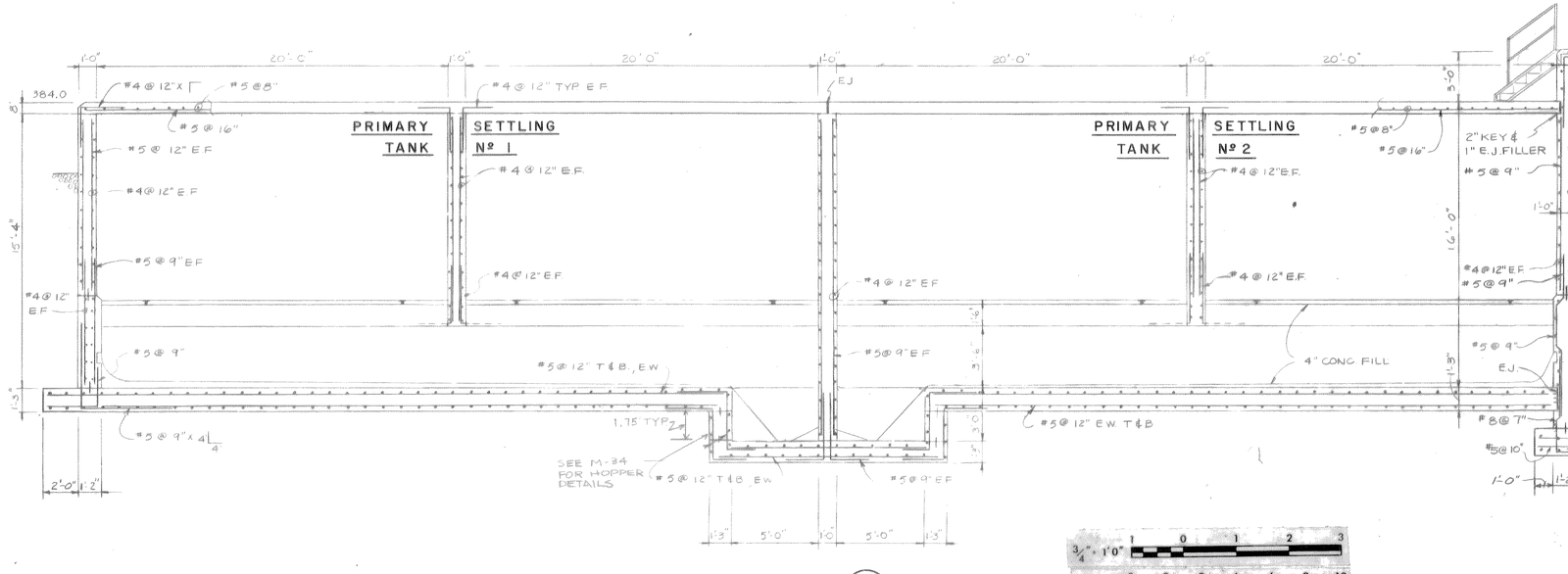
SCALE 3/4"=1'-0"



SECTION 22 S-16

SCALE 1/4"=1'-0"





SECTION 23 S-16

SCALE 1/4"=1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

3/4" = 1'0" 1 0 1 2 3

1/4" = 1'0" 2 0 2 4 6 8 10

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FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573 W.H. ROWELL 29518
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

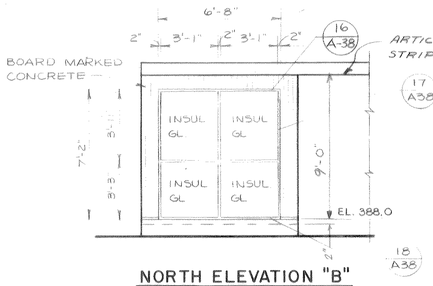
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	PS	2/5/76	ALT	ALT	SLB 2/24/76
1	FOR APPROVALS	CEA/PS	9/30/76	WJG	ALT	SLB 3/3/76

PROJECT SUPERVISOR Arnold L. Tong APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
PRIMARY SETTLING TANKS & GALLERY NO. 2
SECTIONS

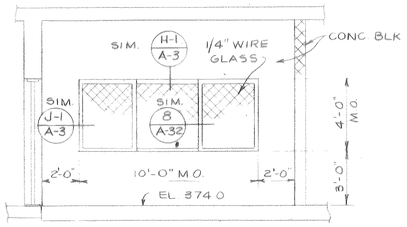
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-24



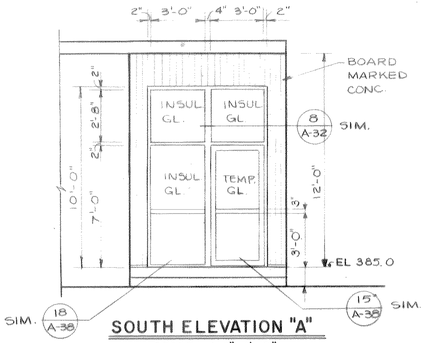
NORTH ELEVATION "B"

SCALE 1/4"=1'-0"



CONTROL ROOM ELEVATION

SCALE 1/4"=1'-0"



SOUTH ELEVATION "A"

SCALE 1/4"=1'-0"

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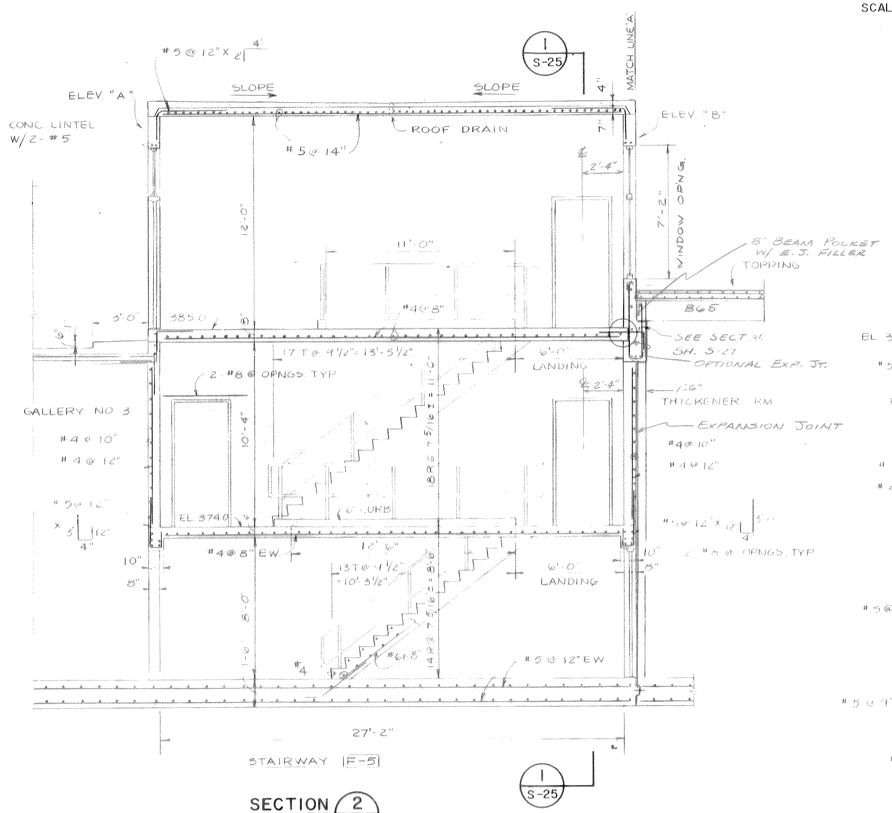
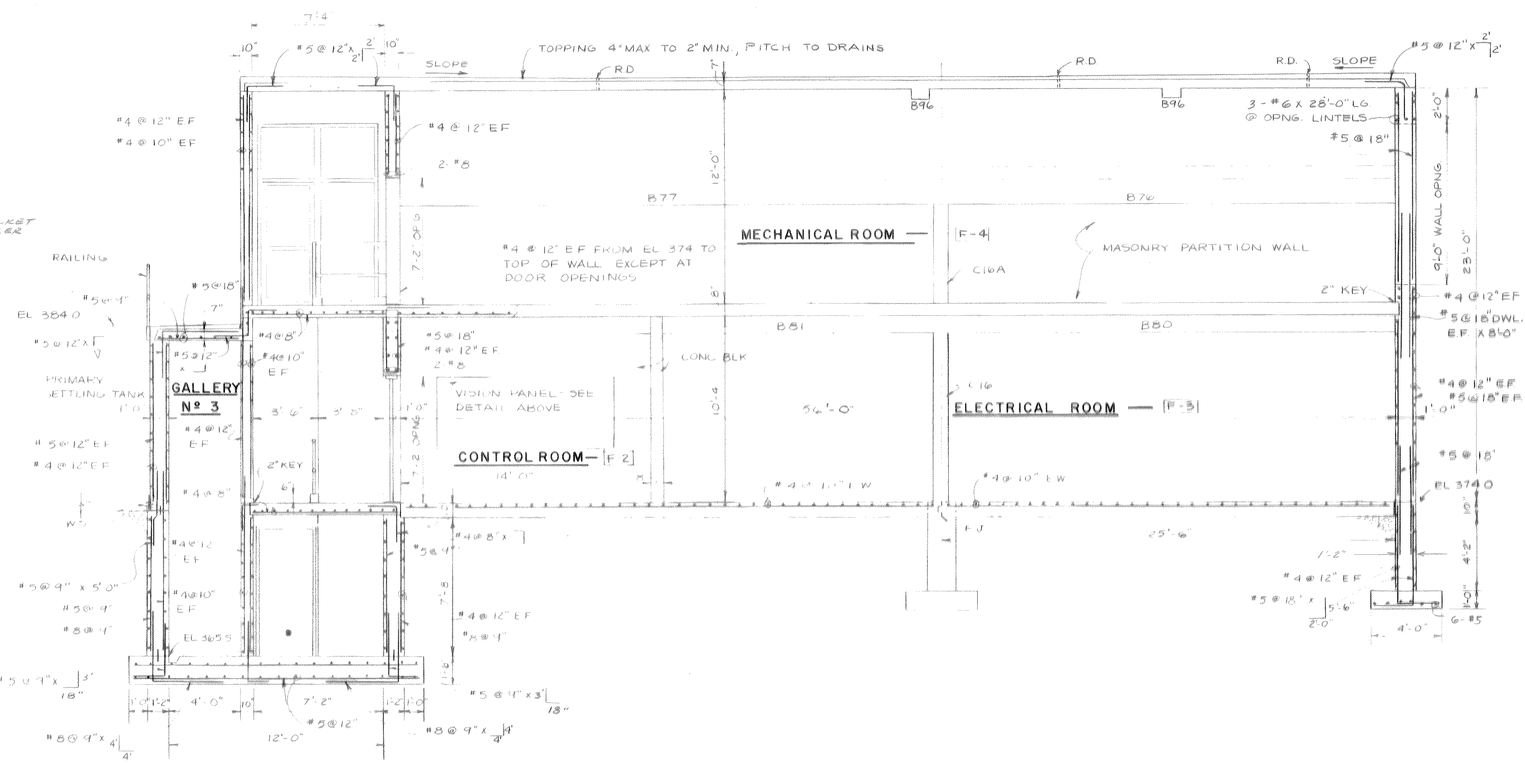


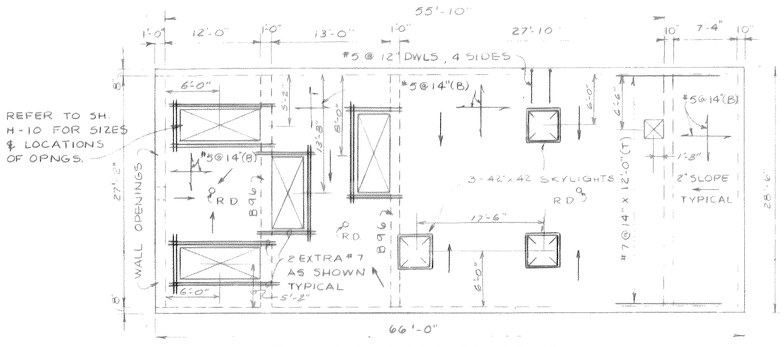
SECTION 2 S-26

SCALE 1/4"=1'-0"



SECTION 1 S-25 / 1 S-26

SCALE 1/4"=1'-0"



MECHANICAL ROOM - ROOF PLAN

SCALE 1/8"=1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

1/4" = 1'0" 2 0 2 4 6 8 10

1/8" = 1'0" 8 4 0 8 16

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LLS	9/8/83
2	APPROVED FOR CONSTRUCTION			ALT	SCB	2/24/78
2	RG/JPS	2/15/78	WJG			
1	FOR APPROVALS			ALT	SCB	3/31/76
1	P.S.	3/30/76	WJG			

PROJECT SUPERVISOR Samuel L. Jones APPROVED S.C. Bruschini

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

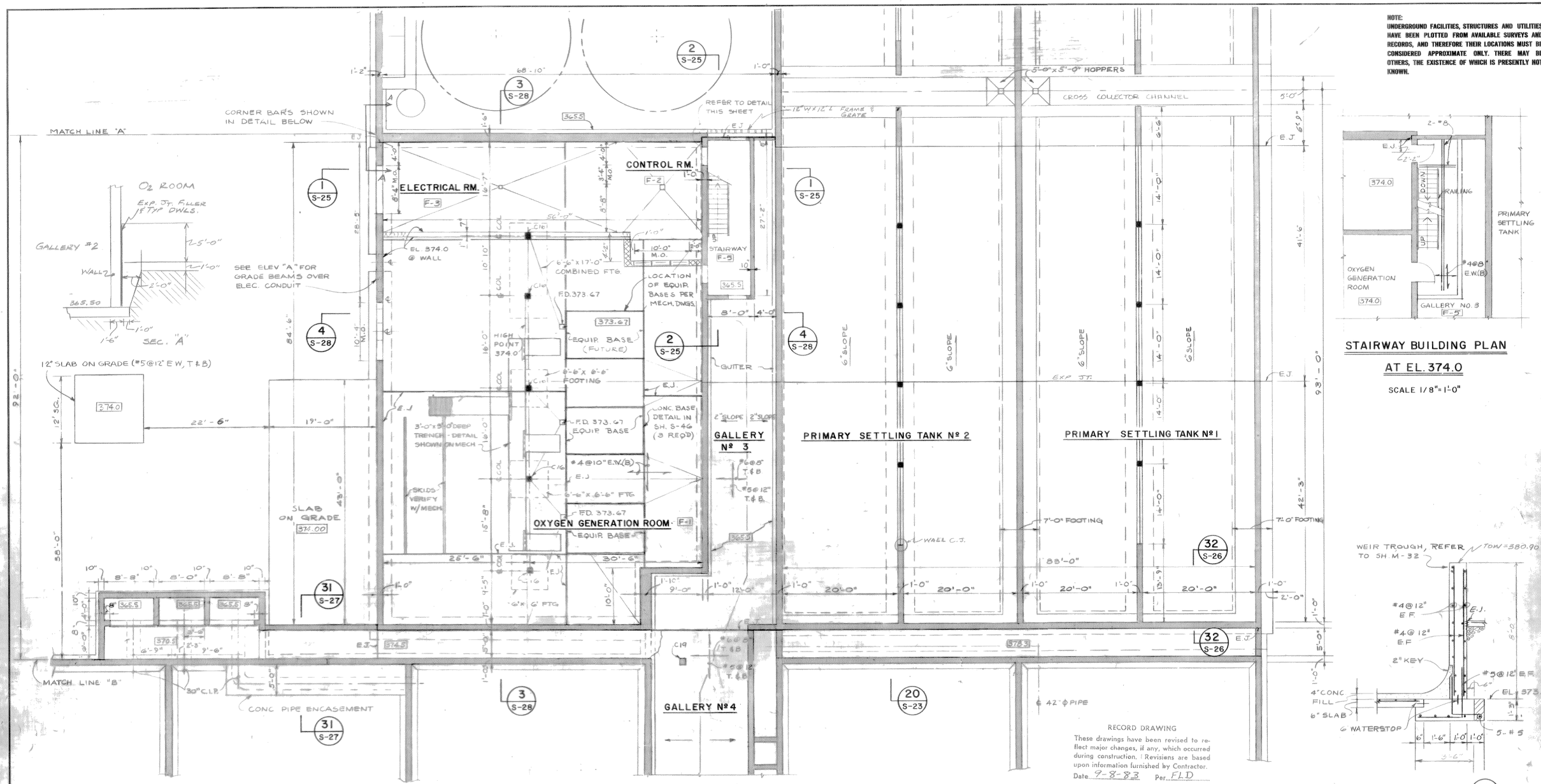
PROCESS STRUCTURE
GALLERY NO. 3 & STAIRWAY BLDG.
SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-25

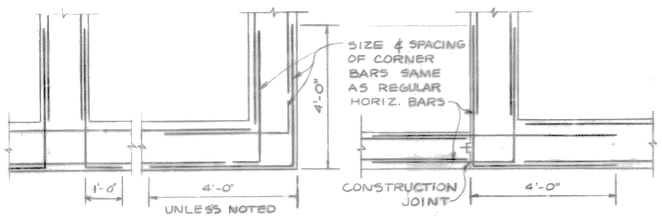
151

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

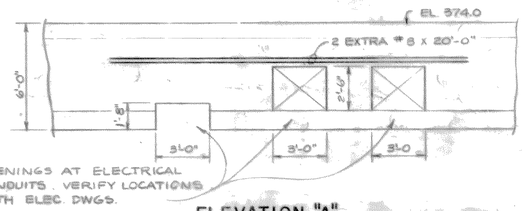


STAIRWAY BUILDING PLAN
AT EL. 374.0
SCALE 1/8"= 1'-0"

BASE - PLAN
SCALE 1/8"= 1'-0"



TYPICAL WALL CORNER REINFORCING DETAILS
PROCESS STRUCTURE
SCALE 1/2"=1'-0"



ELEVATION "A"
SCALE 1/4"=1'-0"

SECTION 32 / S-26
SCALE 3/8"= 1'-0"

RECORD DRAWING
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Date 9-8-83 Per F.L.D

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½" = 1'0" 1 0 1 2 3 4 5
⅜" = 1'0" 1 0 1 2 3 4 5 6 7
¼" = 1'0" 2 0 2 4 6 8 10
⅛" = 1'0" 8 4 0 8 16

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHEELER 31573 | W.H. ROWELL 29518
S.G. BRISBIN 31810 | W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				L.S.	9/8/83
2	APPROVED FOR CONSTRUCTION RG/DS	2/15/78	WJG	BLT	S.G.B.	6/24/78
1	FOR APPROVALS CEA/RS	3/30/76	W.J.G.	A.T.	S.G.B.	4/13/76

PROJECT SUPERVISOR: APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GEN. RM. & PRIMARY SETTLING TANK
LOWER PLAN

STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET S-26

157

NOTE:
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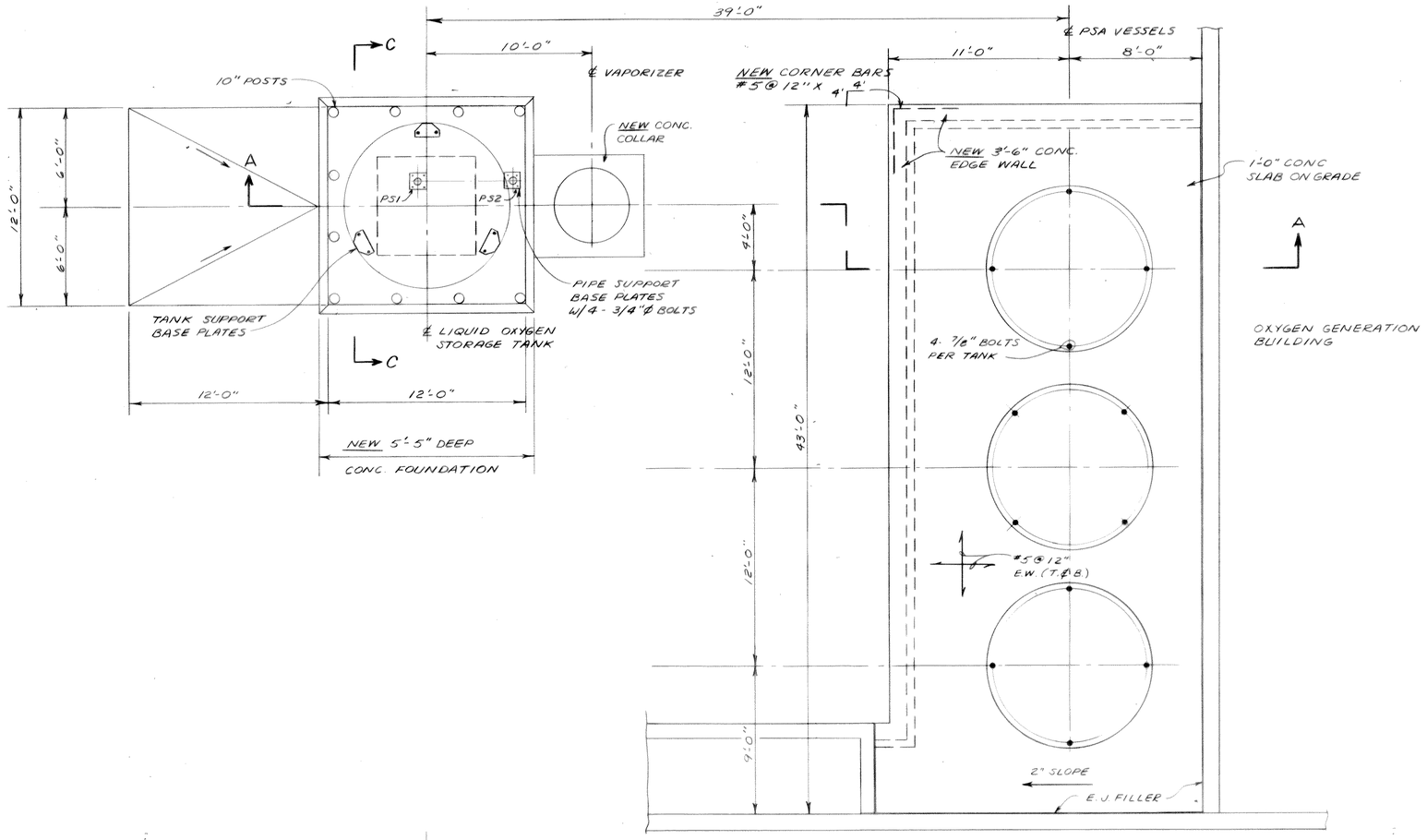
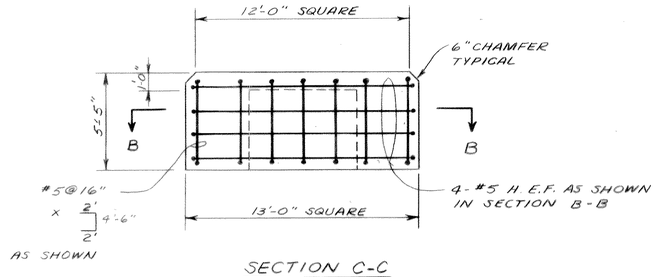
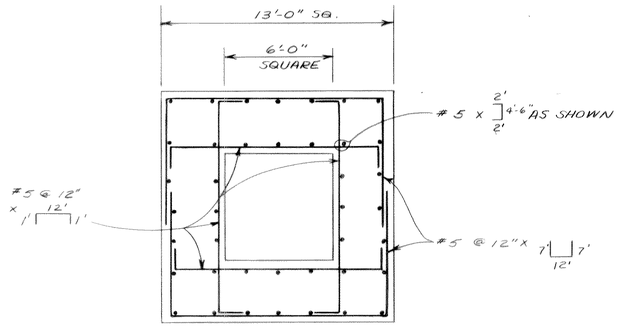


SECTION C-C

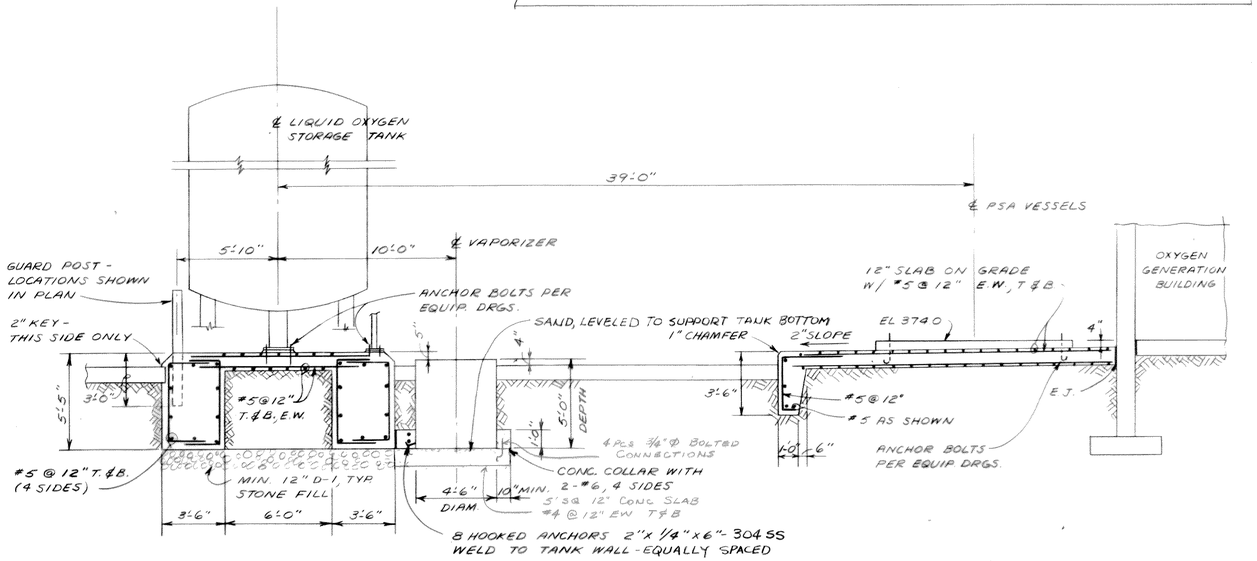
FOUNDATION REINFORCING DETAILS

LIQUID OXYGEN STORAGE TANK





SECTION B-B



SECTION A-A

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	CHANGE ORDER PC-35 & RECORD					JLS	9/9/83
1		P.S.	10/31/74	A.J.	A.J.		

PROJECT SUPERVISOR _____ APPROVED _____

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 889 CONTRACT NO. SHEET S-26B

NOTE:
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MATCH LINE "A"

71'-0"

35 S-27

387

E.J.

LOUVER OPNG REFER TO SH H-10

2 WALL OPENINGS 9'-0" HT. X 12'-8" WIDE (VERIFY)

#6@12"(B)
#4@12"(B)
#4@12"(T)

FLOOR @ 385.0
L.L.=200 P.S.F.

DUCT OPNGS SEE SH. H-13

385

EXTRA #4@10" x 10'-0"(T)

SEE H-10 & H-12 FOR ROOF OPNGS.

28'-6" OUT TO OUT OF BLDG

B80 B81

RAILING

56'-0"

MECHANICAL ROOM F-4

STAIRWAY F-5

B78 (@ EL 385) B79 (@ EL 385)

B76 DUCT OP'NG B77 DUCT OP'NG

CONC. PAD

MONORAIL CAPACITY = 5 1/2 TONS

L.L.=100 P.S.F.

OXYGEN GENERATION ROOM F-1

3-#6@6"x6'-0 E.W. EXTRA @ BEARING PTS

B70 B71

EXTRA #6@14" x 12'-0" LONG(T)

OPNGS FOR 12"Ø AIR INTAKE (3 REQ'D) SEE MECH. DWG.

R.D.

#4@14"(T) TYP.
#4@12"(B) TYP.
#6@12"(B) TYP.

CONTROL JOINT

B74 B75

GALLERY NO. 3

ROOF SLAB 2" SLOPE

#5@9"(B)

#5@18"(B)

T.O.W. 384.0

PRIMARY SETTLING TANK NO. 2

PRIMARY SETTLING TANK NO. 1

384

SAW CUT JOINTS @ APPROX. 8'-0"

B68 B69

EXTRA #4@14" x 8'-0" LONG (T)

B74 B75

DUCT OPNG

12"x4'-0"x4'-0" CONC FOOTING

13 S-32 14 S-32 31 S-27 36 S-27

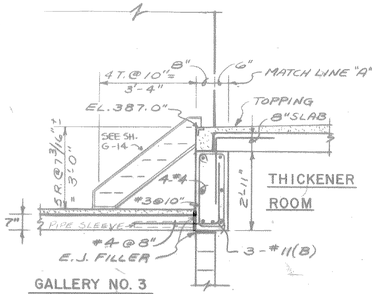
E.J. @ WALL

GRATING 379.33

GRATING 384

MATCH LINE "B"

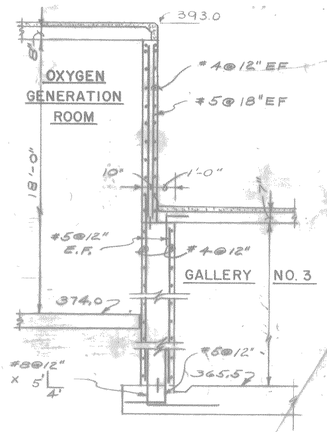
TYPICAL 42"x 42" SKYLIGHT TYPE "F", WITH 4"x 12" CURB DETAILS SHOWN IN SH S-47 & A-38



GALLERY NO. 3

SECTION 35 S-27

SCALE 3/8"=1'-0"

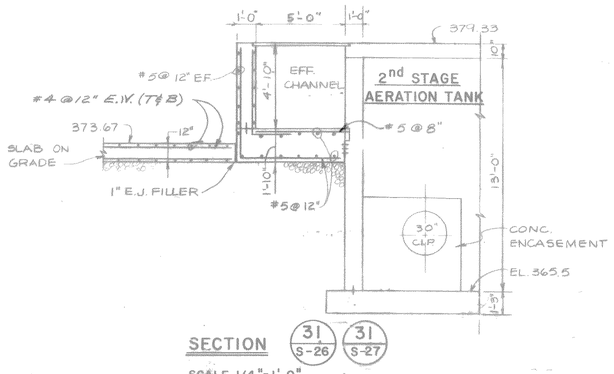


SECTION 36 S-27

SCALE 1/4"=1'-0"

TOP PLAN

SCALE 1/8"=1'-0"



SECTION 31 S-26 31 S-27

SCALE 1/4"=1'-0"

3/8"=1'0" 0 1 2 3 4 5 6 7

1/4"=1'0" 2 0 2 4 6 8 10

1/8"=1'0" 8 4 0 8 16

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RECORD DRAWING
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Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573 W.H. ROWELL 29518
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
					JLS	9/6/83
2	APPROVED FOR CONSTRUCTION RG/PS 2/15/78	WJG		ALT	SAB	2/24/78
1	FOR APPROVAL REG. 3/30/76	WJG		ALT	SAB	3/31/76

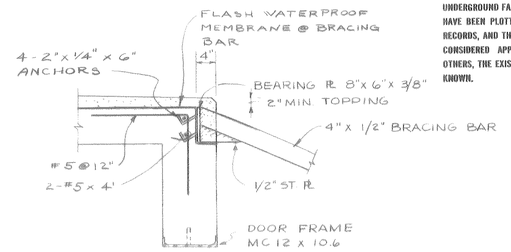
PROJECT SUPERVISOR: Arnold R. Haug APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GEN. RM. & PRIMARY SETTLING TANK
UPPER PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

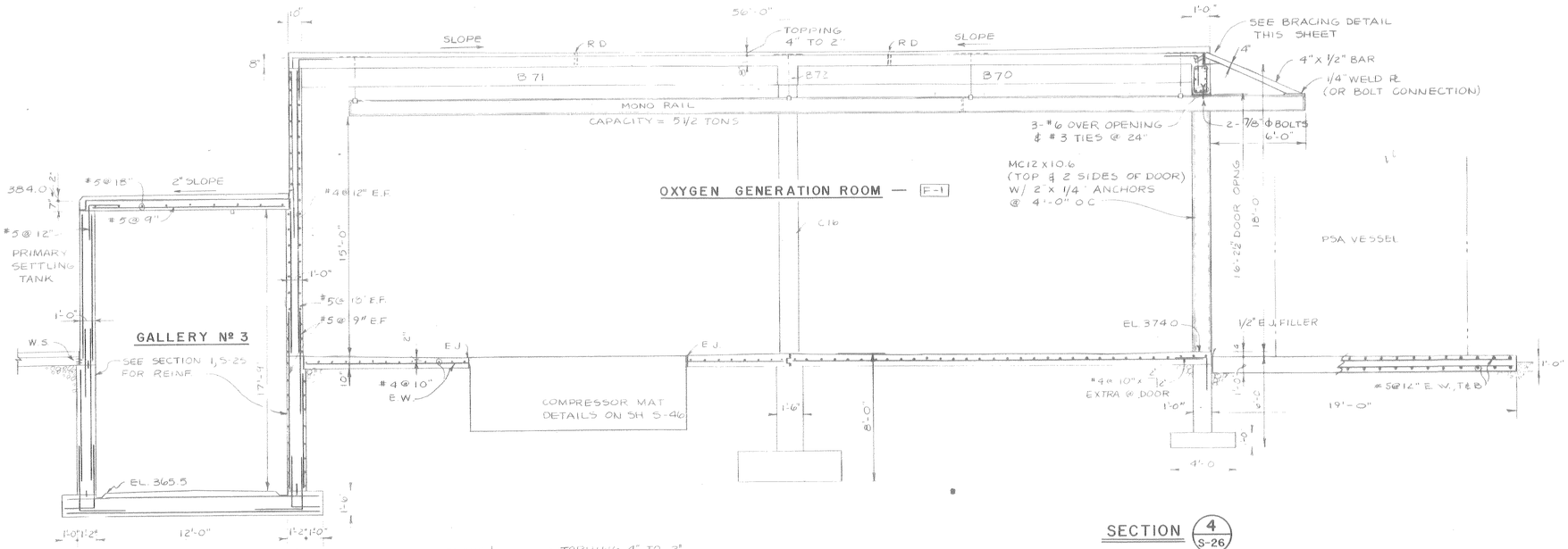
JOB NO. 577 CONTRACT NO. 1 SHEET S-27

158

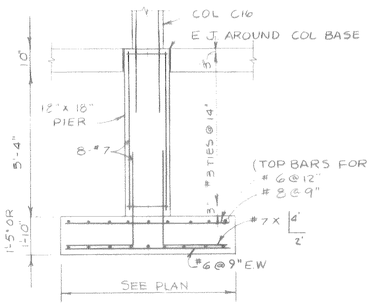
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



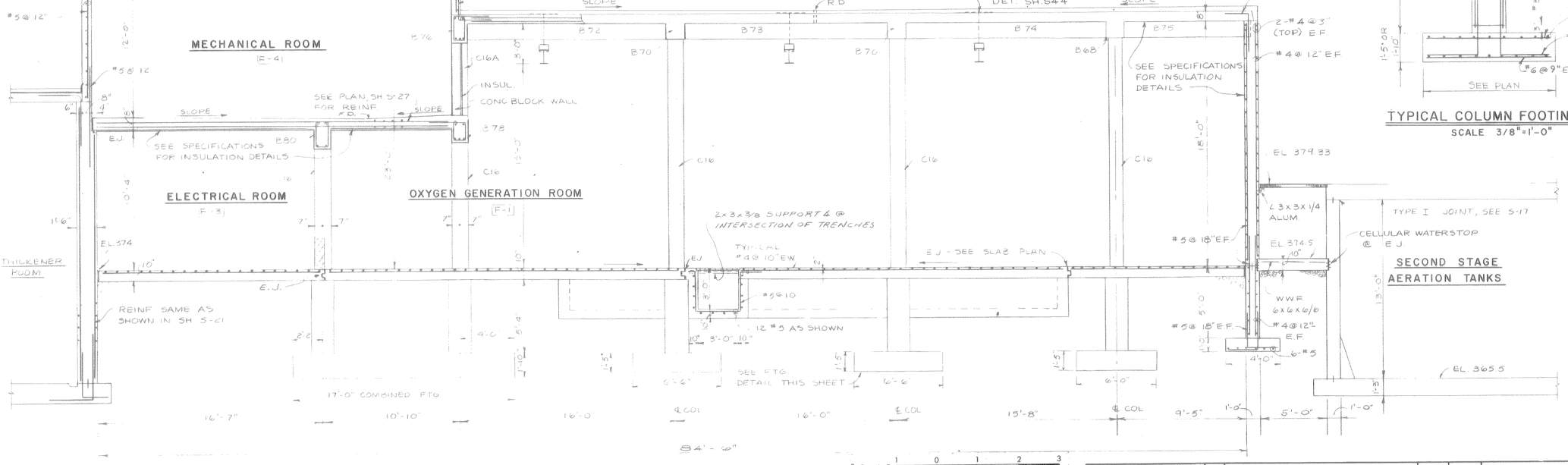
BRACING BAR DETAIL
SCALE 3/4"=1'-0"



SECTION 4 / S-26
SCALE 1/4" = 1'-0"



TYPICAL COLUMN FOOTING DETAIL
SCALE 3/8"=1'-0"



SECTION 3 / S-26
SCALE 1/4" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per F.E.D.

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/4" = 1'0" 1 0 1 2 3
3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					JLS	9/8/83
2	APPROVED FOR CONSTRUCTION R6/P3 2/15/78 WJG				ALT	SGB	2/24/78
1	FOR APPROVALS P.S.		3/30/76	W.J.G.	ALT	SGB	3/31/76

PROJECT SUPERVISOR Oswald K. Jung
APPROVED S.G. Breiblin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GENERATION ROOM
SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-28

159

MATCH LINE "B"

9 S-38

℄ 30" Φ CIP

374.5

30" CIP ENCASED IN CONC.

H.P. @ 365.75

E.J.

SLOPE SLOPE

6 S-37

EFFLUENT CHANNEL

278.5

MATCH LINE "B"

WALL E.J.

℄ 42" Φ CIP

4 COL. PER TANK C17

2ND STAGE AERATION TANK TRAIN 3-1

2ND STAGE AERATION TANK TRAIN 2-1

2ND STAGE AERATION TANK TRAIN 1-1

C19

5'-5"

26'-9"

19'-0"

10" 4'-0"

GUTTER @ 365.5

1ST STAGE AERATION TANK TRAIN 2-1

4'-6" X 2'-0" OPNG. INV. EL. @ 373.67

1ST STAGE AERATION TANK TRAIN 1-1

15'-0" 11'-0" 15'-0"

133'-8"

1'-0" 41'-0" 1'-0" 41'-0" 1'-0" 41'-0" 1'-0" 22'-0" 1'-0" 41'-0" 1'-0" 41'-0" TYP. 1'-0" 1'-0" TYP.

1'-0" TYP. TYP. 1'-0" 1'-0" TYP. TYP. 1'-0"

2ND STAGE AERATION TANK TRAIN 3-2

2ND STAGE AERATION TANK TRAIN 2-2

2ND STAGE AERATION TANK TRAIN 1-2

GALLERY NO. 4

2" SLOPE 2" SLOPE

5'-0"

C19

*6@8" (T&B)

*5@12" (T&B)

1ST STAGE AERATION TANK TRAIN 2-2

1ST STAGE AERATION TANK TRAIN 1-2

TYPICAL WALL OPENING 4'-0" X 4'-0"

TYPICAL WALL OPENINGS 4'-0" WIDE X 5'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

365.5

370.0

7 S-32

ELEC. CONDUIT OPNGS. (TYP.)

2ND STAGE AERATION TANK TRAIN 3-3

2ND STAGE AERATION TANK TRAIN 2-3

2ND STAGE AERATION TANK TRAIN 1-3

SWING GATE - DETAIL ON SH G15

10" WALLS

7'-8" 3'-10" 5'-0" 5'-6"

RAMP

1ST STAGE AERATION TANK TRAIN 2-3

1ST STAGE AERATION TANK TRAIN 1-3

SUMP 18"X18"X13" DEEP

SUMP 18"X18"X13" DEEP

SUMP 18"X18"X13" DEEP (TYP.)

WEIR (TYP.)

A

20'-6"

10" WALLS

5 S-29

C19

4" SLAB ON FILL

2' SLOPE

MATCH LINE "C"

WALL E.J.

371.0

365.5 365.5 10" 4'-0" 4'-0" 10"

370.0 370.0 10" 4'-0" 4'-0" 10"

375.5

7'-0"

3'-0" X 4'-0" OPNG.

EFF. BOX W/ 3' FILLETS SEE SECT G, SH. S-37

9 S-38

EFF. BOX W/ 3' FILLETS, SEE SECT G, SH. S-37 (TYP.)

SWING GATE 4'-9" DROP

360.75

234'-0"

GALLERY NO. 6

GALLERY NO. 5

6 S-37

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

SWING GATE (T & B) DETAIL ON SH. G-13 & S-40

#6@12" X 3' TYP.

RAMP

#6@12"

#6@6"

365.5

#6@12" EF 360.75

#6@12" #6@6"

#6@12" T&B

SECTION 5 S-29

SCALE 1/4" = 1'-0"

PLAN

SCALE 1/8" = 1'-0"

18" 15" 15" 15"

SEC "A"

1/4" = 1'-0" 2 0 2 4 6 8 10

1/8" = 1'-0" 8 4 0 8 16

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NEW YORK STATE LICENSED PROFESSIONAL ENGINEER

A.G. WHELER 31573
S.G. BRISBIN 31610
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION		PS	2/5/76	ACT	ALT	SGB	2/24/76
1	FOR APPROVALS		CER/PS	3/30/76	W.J.G.	A.L.T	SGB	3/31/76

PROJECT SUPERVISOR: Ahmet R. Ertug
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
AERATION TANKS & GALLERY NO. 4
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-29

STAIR DETAIL SHOWN ON SECT. 13, SH. S-32

OXYGEN GENERATION ROOM

GRATING (379.33)

GRATING (384.0)

MATCH LINE "B"

TYPE I JOINT

TRAIN 3-1 | TRAIN 2-1 | TRAIN 1-1 | TRAIN 2-1 | TRAIN 1-1

379.5 ROOF SLAB t = 12"

384.0 ROOF SLAB t = 12"

E.J. TYPE II

CONC. PADS

TRENCH

TRENCH

8 S-32

#4@15"(T) E.W.
#5@15"(B.)
#5@10"(B.)

REINFORCING IN TRAIN 2-2 IS TYPICAL UNLESS NOTED OTHERWISE

7'-0" x 7'-0" DECK OPNG TYP.

7'-0" x 7'-0" DECK OPENING, TYP.

379.33

T.O.W. EL. 380.77

R.D.

TRAIN 3-2 | TRAIN 2-2 | TRAIN 1-2 | TRAIN 2-2 | TRAIN 1-2

PIPE CHASE (TOP EL. 381.5)

E.J. 3'-0"

#6@6"(B)

#4@12"(B)

L.L. = 60PSF

PIPE CHASE (TOP EL. 381.33)

E.J. TYPE II

TYPE I JOINT

1'-7" TYP

TRENCH

WALL

TRENCH

2' SLOPE (TYP.)

REINF IN TRAIN 3-3 SAME AS TRAIN 2-3

#4@15"(T.) E.W.
#5@15"(B)
#5@10"(B)

REINF IN TRAIN 1-3 SAME AS TRAIN 2-3

#4@15"(T.) E.W.
#5@5"(B)
#5@15"(B)

7'-0" x 7'-0" DECK OPENING, TYP.

#4@15"(T) E.W.
#5@15"(B)
#5@5"(B)

T.O.W. EL. 379.33

375.67

R.D. SLOPE TO DRAIN

GALLERY NO. 4

SERVES FEED CHANNEL

374.5

RAILING

2' SLOPE (TYP.)

REINF. IN TRAIN 2-3 SAME AS TRAIN 1-3

#4@15"(T.) E.W.
#5@5"(B)
#5@10"(B)

#4@15"(T) E.W.
#5@15"(B)
#5@5"(B)

ROOF SLAB t = 12" (TYP.)

TRAIN 3-3 | TRAIN 2-3 | TRAIN 1-3 | TRAIN 2-3 | TRAIN 1-3

ACCESS MANHOLE, TYP. 2'-6"Φ MIN., 5 REQUIRED

MATCH LINE "C"

TRENCH

1'-0" | 41'-0" | 1'-0" | 41'-0" | 12'-6" | 1'-0" | 5'-0" | 41'-0" | 16'-8" | 8" | 5'-0" | 1'-0" | 41'-0" | 1'-0" | 41'-0" | CURB | 1'-0"

1'-0" | 1'-0" | 36'-0" | 1'-0"

TYPE III JOINT SEE SH. S-17

TOP OF ROOF 375.5

8" (TYP) | 2'-0" (TYP) | 8" (TYP.)

1'-6" (TYP)

PIPE CHASE (TOP EL. 381.33) SEE TYP. DETAIL THIS SHEET

R.D.

T.O.W. 379.33

B84 EJ. B85

234'-0"

13'-0"

2'-0" TYP.

6" | 6" | 3'-0" TYP.

380.25

PIPE CHASE (TOP EL. 385.83)

TYPE III JOINT SEE SH. S-17 TOP OF ROOF

1'-2" | 14'-8" | 1'-2"

MATCH LINE "C"

1'-0" | 7'-0" | 41'-0" | 1'-0"

TRENCH

TRENCH

TYPE I JOINT

1'-0"

TRENCH

TRENCH

8 S-32

41'-0"

41'-0"

1'-0"

MATCH LINE "B"

133'-8"

2 ND STAGE AERATION TANK

1 ST STAGE AERATION TANK

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

8" | 1'-6" | 8"

6" (TOP SLAB, 3'-4" x 2'-10")

1'-3"

3" HIGH CURB

REINF SHOWN IN SECT. 36 SH. S-21

SLEEVES FOR CONTROL PIPING, ETC. TO BE GROUTED IN PLACE IN 1'-3" x 1'-6" OPENING

TYP. PIPE CHASE DETAIL

TYPICAL 42" X 42" SKYLIGHT, TYPE "F" WITH 4" X 12" CURB. DETAILS SHOWN IN SH. S-47 & A-38.

RECORD DRAWING

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Date 9-8-83 Per FLD

TOP PLAN

SCALE 1/8" = 1'-0"

1/8" = 1'0" 8 4 0 8 16

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LICENSED PROFESSIONAL ENGINEER — THE UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 51810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				KLS	9/8/83
2	APPROVED FOR CONSTRUCTION PC/PS	2/5/76	GLT	RLT	SGB	2/24/78
1	FOR APPROVALS CER/PS	3/30/76	WJG	RLT	SGB	3/31/76

PROJECT SUPERVISOR Arnold L. Gray — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
AERATION TANKS & GALLERY NO. 4
UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET S-30

191

OXYGEN GENERATOR RM.

PRIMARY SETTLING TANK

OXYGEN BUILDING

2nd STAGE AERATION TANK

GALLERY NO. 3

GALLERY NO. 4

1st STAGE AERATION TANK

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SCALE 1/4" = 1'-0"

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A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/9/83
2	APPROVED FOR CONSTRUCTION				SGB	6/24/78
1	RFC 2/5/78	WJG	ALT	ALT	SGB	3/31/76
	FOR APPROVAL 12/5/75					

PROJECT SUPERVISOR Arnold R. Pfeiffer APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 4
PLANS & SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-31

NOTE:
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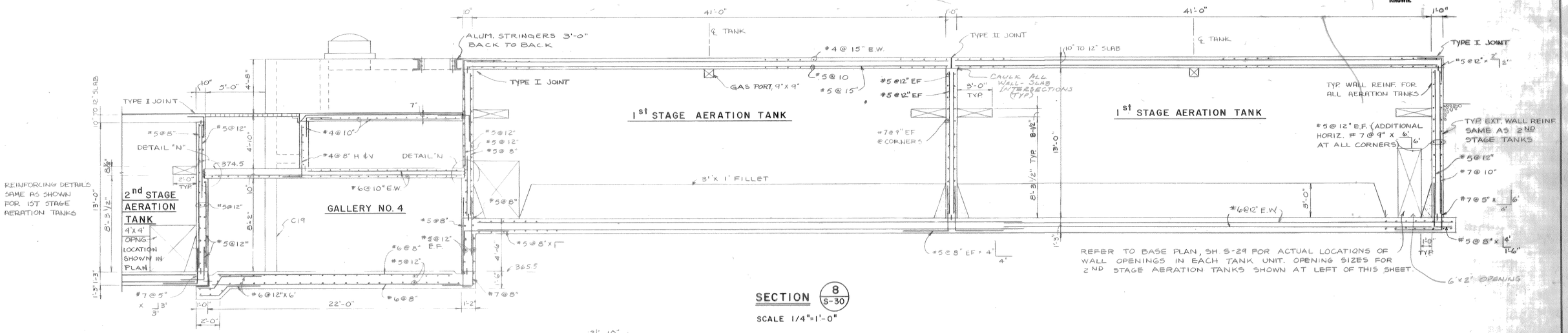
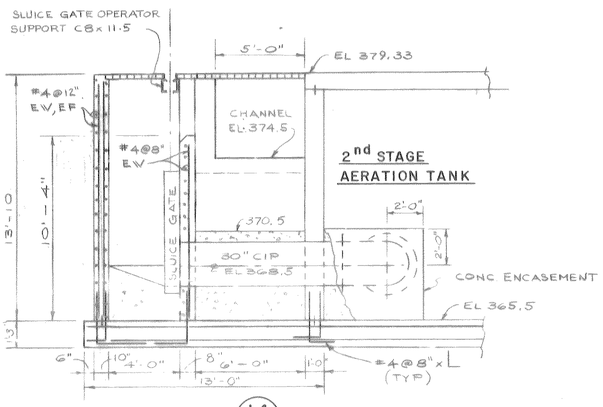
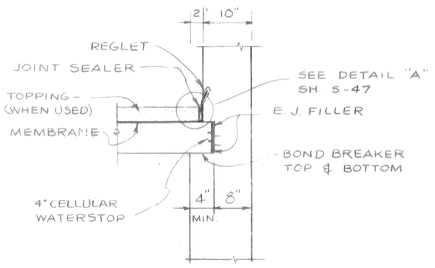


SECTION 8 / S-30
SCALE 1/4"=1'-0"

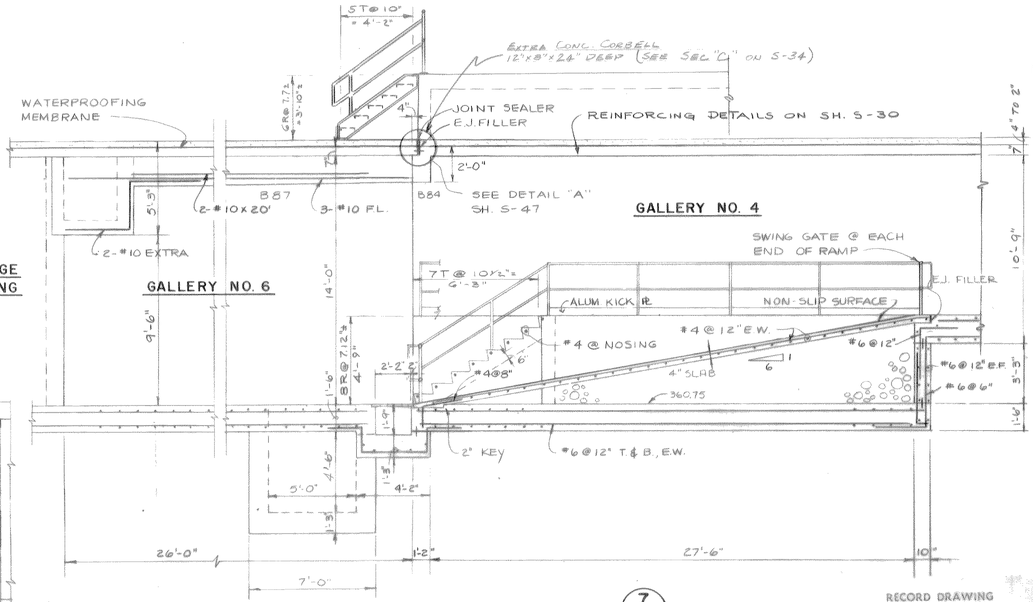
REINFORCING DETAILS SAME AS SHOWN FOR 1ST STAGE AERATION TANKS



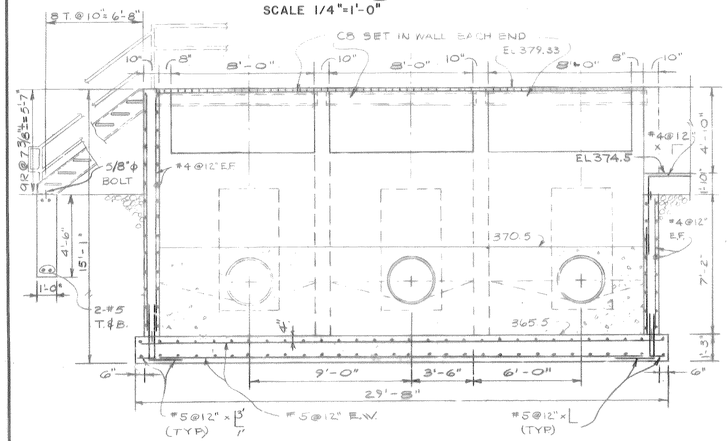
SECTION 14 / S-27
SCALE 1/4"=1'-0"



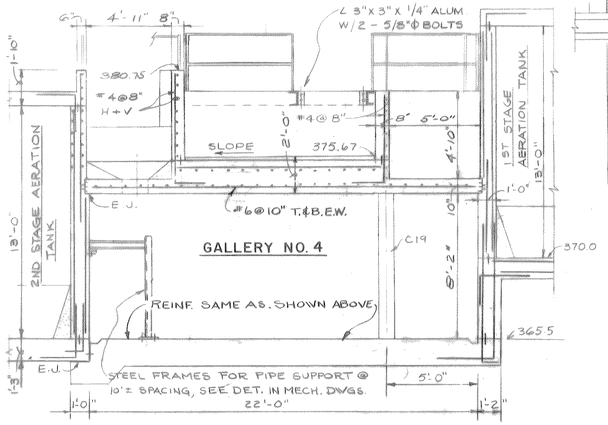
DETAIL N
SCALE 3/4"=1'-0"



SECTION 7 / S-29
SCALE 1/4"=1'-0"



SECTION 13 / S-27
SCALE 1/4"=1'-0"



SECTION 9 / S-31
SCALE 1/4"=1'-0"

1/4"=1'0" 2 0 2 4 6 8 10
3/4"=1'0" 1 0 1 2 3

RECORD DRAWING
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Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

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LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORDED				KLS	9/8/83
2	APPROVED FOR CONSTRUCTION 26/PS 2/6/78		ALT	ALT	SGB	6/24/78
1	FOR APPROVALS				SGB	3/31/76
	GEN	3/30/76	W.J.G.	A.L.T.		

PROJECT SUPERVISOR Arnaldo L. Troy — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
AERATION TANKS & GALLERY NO. 4
SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-32

MATCH LINE "C"

E.J.

41'-0"

NOTCH AT TOP OF WALL X 1'-0" DEEP

13'-0" Φ x 4" THICK CONC PADS

RECESS FLOOR SLAB FOR G.T.

FIBERGLASS GRATING

HIGH POINT @ 361.0

GALLERY NO. 6

SLOPE

SUMP PIT

4'-0"x3'-6" CONC. LANDING TOP @ EL. 367.75

UP

LANDING

TRENCH

SEC A ON S-34

#6@7"(T&B)

#5@12"(T&B)

C20

C21

EL 360.75 @ GUTTER, TYP

SLUDGE CROSS COLLECTOR CHANNELS

PRESSURE RELIEF VALVE, 1 REQ'D, SEE SH. S-47, & @ 364.0

EQUIP MOUNTS VERIFY WITH EQUIP. MFR.

E.J.

12"X14" COL. @ 15', CENTER TO CENTER 7 PER TANK

2nd STAGE SETTLING TANK NO. 3

2nd STAGE SETTLING TANK NO. 2

2nd STAGE SETTLING TANK NO. 1

10" SLOPE

1'-0" 20'-0" 1'-0" 20'-0" 1'-0" 20'-0" 1'-0" 20'-0" 1'-0"

190'-0"

C19

3'Φ SUMP PIT

GALLERY NO. 7

HIGH POINT @ 360.96

22'-0" 1'-0"

234'-0"

1ST STAGE SETTLING TANK NO. 2

1ST STAGE SETTLING TANK NO. 1

20'-0" 1'-0" 20'-0" 1'-0" 20'-0" 1'-0" 20'-0" 1'-0"

EL. 360.75 @ GUTTER TYPICAL

GALLERY NO. 5

#6@7"(T.&B.)

#5@12"(T.&B.)

12"x12" CONC. ENCASED COLUMN

GUTTER

SEE SEC B ON S-34

PRESSURE RELIEF VALVE 1 REQ'D. THIS SIDE REFER TO SH. S-47 & EL. 368.0

E.J. LOCATIONS SHOWN ON S37

12"x14" COLUMNS C. TO C. @ 15', 7 PER TANK

155'-0"

169'-0"

26'-0"

SUMP PIT, 30"Φ x 36" DP W/FIBER-GLASS LINER PER CONTRACT #4

360.75

GUTTER

EFFLUENT CHANNEL

369.58

PRESSURE RELIEF VALVES - 5 REQ'D THIS SIDE OF TANKS, SEE DETAIL SH S-47 & @ EL. 364.0

MATCH LINE "D"

GALLERY NO 8

SCUM BOX

360.75

GUTTER @ 362.75

18"x18"x10" SUMP

7'-1"

36'-4"

CHLORINE CONTACT TANK NO. 1

4" SLOPE

SLAB & WALL E.J.

GUTTER @ 362.75

18"x18"x10" SUMP

84'-2"

8" CONC. BLK.

CHLORINE CONTACT TANK NO. 2

PRESSURE RELIEF VALVES & EL. 366.0 - SEE SH. S-47

EFFLUENT CHANNEL

364.0

GUTTER

EFFLUENT CHANNEL

374.5

PRESSURE RELIEF VALVES 5 REQ'D THIS SIDE OF TANKS & @ EL. 370.0, SEE DETAIL SH. S-47

SECTION 36 S-33

SCALE 1/4"=1'-0"

FIBERGLASS GRATING

2'X2' HATCH

375.5 @ EDGE

MIXER SUPPORT

CHANNEL

3'x3' OPNG. @ 370.25

369.58

REINF. SAME AS SHOWN IN SECT. 28, SH. S-44

#5@12" E.W., E.F

#5@12" E.W.

#5@12" E.W., E.F. (3 SIDES)

#5@12"x3'-0" DWLS. PLASTIC COATED ONE END WITH CAP (TYP. FOUR WALLS SHOWN)

VERIFY GROUT WITH MECH.

EL. 360.75

E.J. 1'-0" 6'-0" 10" 3'-0" 10" 4'-0" 10"

BASE PLAN

SCALE 1/8"=1'-0"

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RECORD DRAWING

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Date 2-8-83 Per FLD

1/8"=1'-0" 8 4 0 8 16

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573

S.G. BRISBIN 31810

W.O. LYNCH 37958

F.S. KEITH 39959

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	RG/PS	2/5/76	ACT	ALT	S&B 2/24/76
1	FOR APPROVALS	CEA/PS	8/30/76	WJG	ALT	S&B 9/31/76

PROJECT SUPERVISOR: Crawford A. Frey

APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE 1st & 2nd STAGE SETTLING TANKS LOWER PLAN

STEARNS & WHELER

CIVIL AND SANITARY ENGINEERS

CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-33

SECOND STAGE SETTLING TANKS

FIRST STAGE SETTLING TANKS

GALLERY NO. 8
REFER TO S-41 FOR ADDITIONAL PLANS
EL 375.5

LIME BIN STORAGE BUILDING

CHLORINE STORAGE BUILDING

CHLORINE CONTACT TANK NO. 1

CHLORINE CONTACT TANK NO. 2

LANDING

RAISE CHANNEL OVER LANDING, SEE DETAIL SH. S-40

MONO RAIL (BELOW DECK) CAPACITY = 2 TONS

10"x7" CONC. STRUT UNDER GRATING, SEE S-40

PROVIDE OPENING IN BEAM FOR PIPE SUPPORT, SEE S-40

TOP OF ROOF EL 375.5

BOTTOM OF CHANNEL 371.08

TOP OF WALL @ EL. 379.33

T.O.W. @ EL 379.33

STAIRS SIMILAR TO DET 24, SH. S42

T.O.W. @ EL 380.25 SLOPE TO DRAIN

TOP OF ROOF 380.25

BOTTOM OF CHANNEL 375.83

TOP/CURB 385.0

TOP/CURB 381.0

3805

C21 (BELOW)

SERIES FEED CHANNEL BOTTOM @ 374.5

LL = 60 PSF

LL = 100 PSF

LL = 100 P.S.F.

#4@12"(T)

#6@8"(B)

#4@12"(B)

#4@9"(B)

#6@6"(B)

O.R.D.

4 SKYLIGHTS

10"x7" CONC. STRUT AT GRATING SEE SH. S-40

2" SLOPE

E.J.

B84 B85 B86 B87 B88 B93 B94 B95

SKYLIGHTS AT 50'± SPACING - 3 REQUIRED IN GALLERY #7

STAIRS SIMILAR TO DET 24, S42

LT WT CONC FILL, TOP @ EL 378.5

FIBERGLASS GRATING

MIXING TANK

10" WALLS TYP.

2'x2' HATCH

FIBERGLASS GRATING

RAILING

CURB

6'x6' SKYLIGHT

380.25

CONC. CROSS BEAM 1'-0"x 2'-0"

WALL OPNGS BELOW

SLAB E.J. REFER TO SH. S-17

TOP OF GRATING - 375.5
BOTTOM OF CHANNEL - 369.58

TOP OF GRATING - 380.25
BOTTOM OF CHANNEL - 374.5

ALUM. C6x3.0

4'-6" TYP.

4'-6" (TYP.) REINF. SAME AS WALKWAY SHOWN IN SECT. 1, SH. S-35 (TYP.)

SAW CUT JOINT SPACING 8'± TYP. FOR ALL WALKWAYS

14'-0" (TYP.)

MATCH LINE "C"

MATCH LINE "D"

16 S-40 17 S-40 18 S-41 24 S-42 33 S-40 14 S-39

SEC "A"

1'-2" DRYPACK
3/4"ø A.B. w/INSERTS (TYP.)
#5 VERT.
#5 DIAG. MIDDLE LAYER
#4 TIES
370.25
360.75
LEAVE GUTTER OPEN

SEC "B"

BEAM
STAGGER 7/8" ø ANCHORS 6" MIN EMBEDMENT
9"x9"x1" ℄ 1" MAX. SHIM ℄
W.W. MESH 4x4 x 10/10
W 8x40
11"x11"x1" ℄
CAULK 360.83±
3/4" GROUT F 1/4" LEVEL. ℄
GRATE SUPPORT

SEC "C" ADDED CORBELL

SEC "D"

TYPICAL 42"x42" SKYLIGHT TYPE "F" WITH 4"x12" CURB DETAILS SHOWN IN SH. S-47 & A-38.

TOP PLAN

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

SCALE 1/8"=1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

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A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

3	RECORD				LS	9/8/83
2	APPROVED FOR CONSTRUCTION	RG/PS	2/15/78	ALT	SGB	2/24/78
1	FOR APPROVALS			ALT	SGB	3/31/76
	SCALE: 3/30/76	W.G.		ALT		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

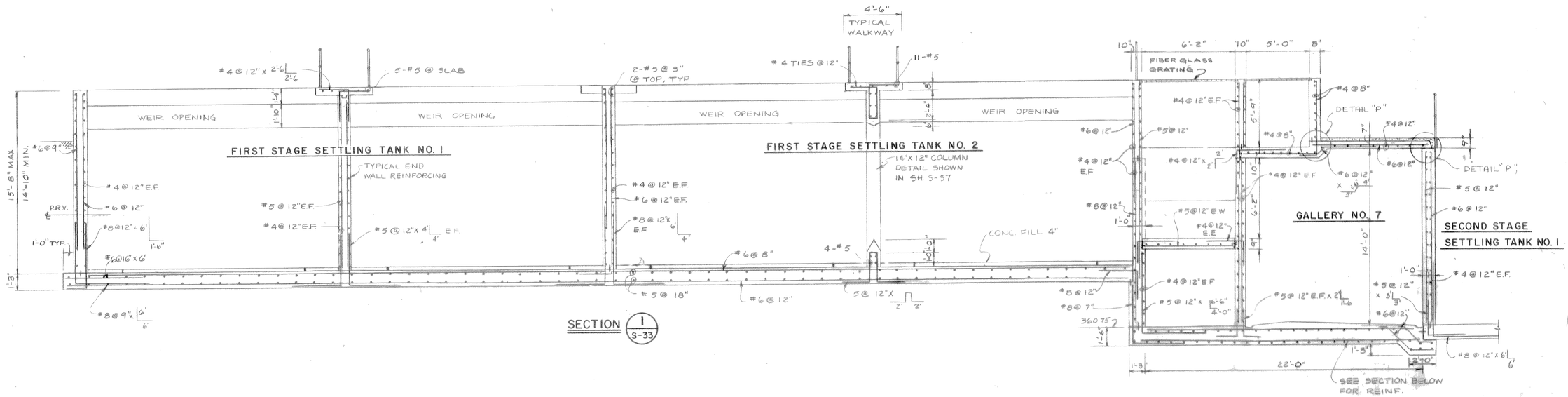
PROJECT SUPERVISOR Samuel A. Greco APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
1st & 2nd STAGE SETTLING TANKS
UPPER PLAN

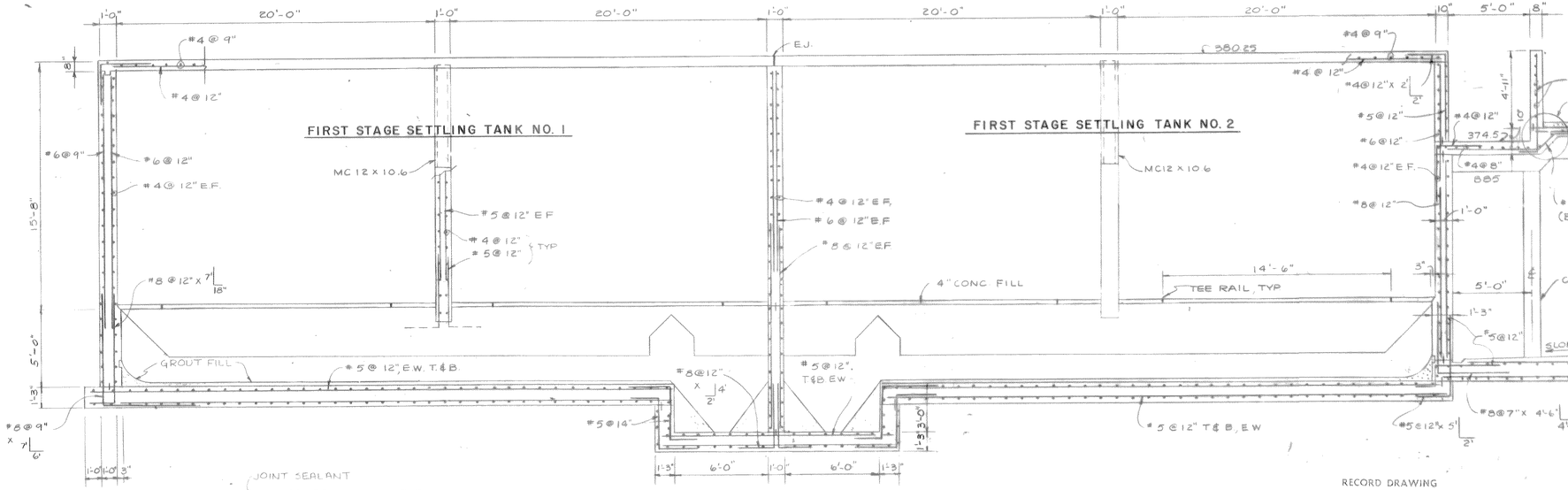
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-34

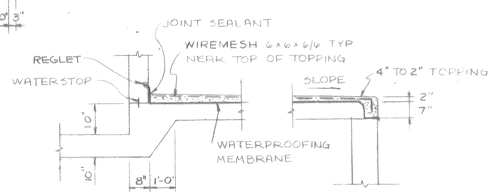
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION 1 / S-33



SECTION 2 / S-33



DETAIL "P"

SCALE 3/8"=1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

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3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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S.G. BRISBIN 31810
W.O. LYNCH 37958
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3	RECORD				KS	9/8/83
2	APPROVED FOR CONSTRUCTION PS	2/15/78	ALT	ALT	SGB	2/24/78
1	FOR APPROVALS CEA	2/20/78	WJG	ALT	SGB	2/21/78

PROJECT SUPERVISOR Quinbal L. Fry APPROVED S.G. Brisbin

SCALE 1/4" = 1'-0"

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
1st STAGE SETTLING TANKS
SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-35

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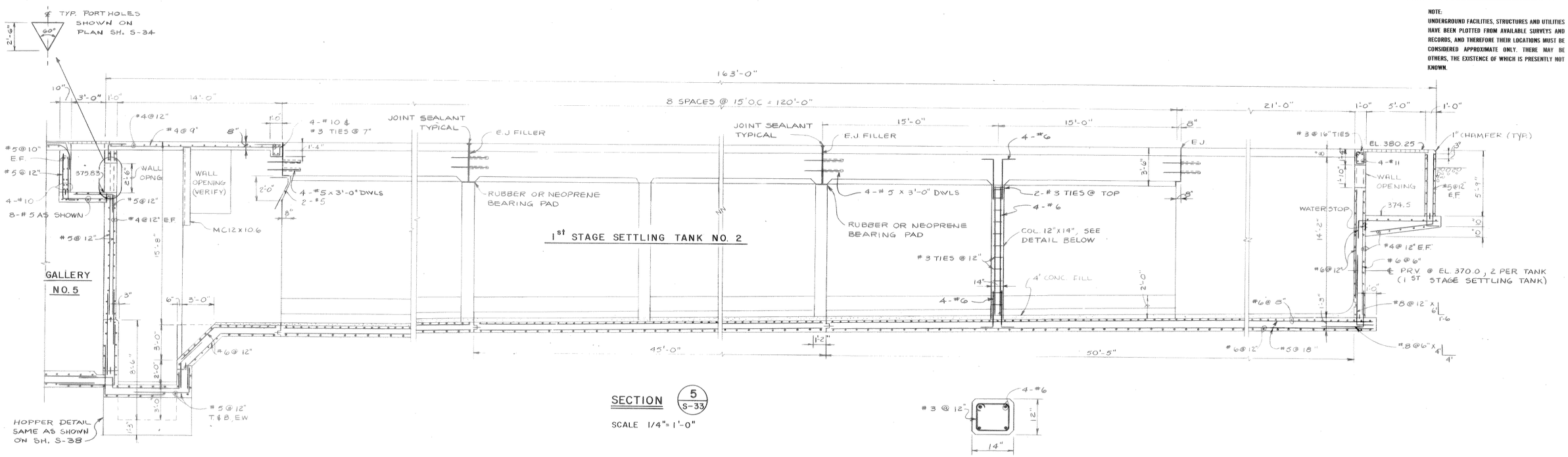
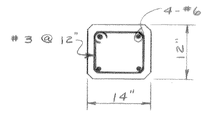


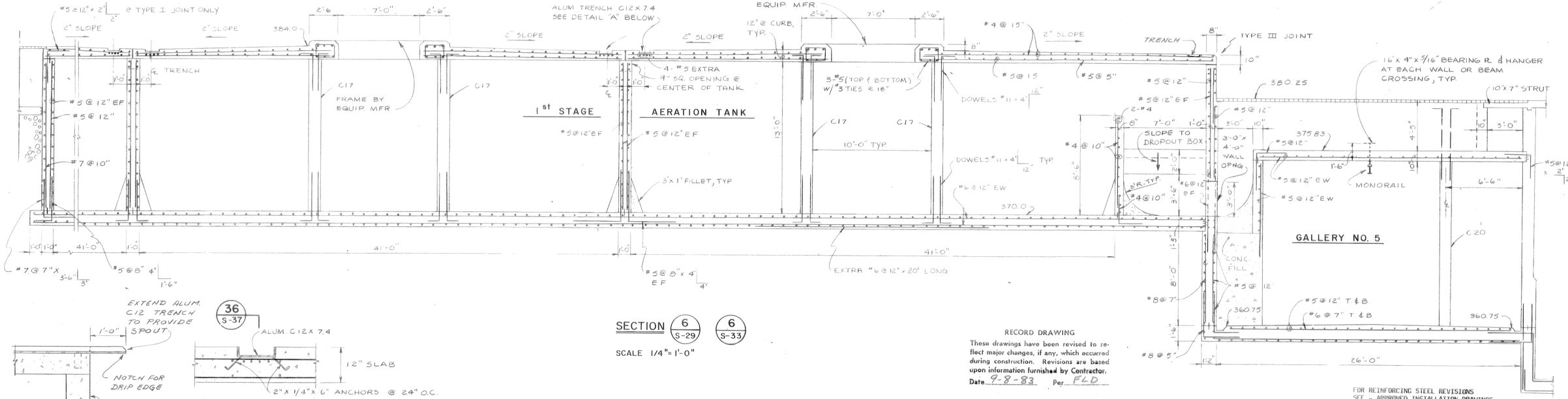
SECTION 5 / S-33

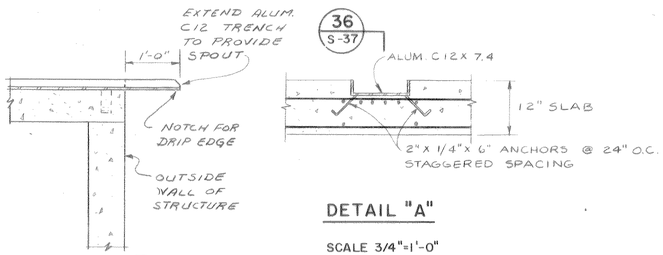
SCALE 1/4"= 1'-0"



CONCRETE COLUMN

SCALE 3/4"=1'-0"





SECTION 36 / S-37

SCALE 3/4" = 1'-0"

DETAIL "A"

SCALE 3/4"=1'-0"

SECTION 6 / S-29 and 6 / S-33

SCALE 1/4"= 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

1/4" = 1'-0" 2 0 2 4 6 8 10

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NEW YORK STATE LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

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S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION PS 2/5/76		ALT	ALT	SGB	2/24/76
1	FOR APPROVALS CEH	3/30/76	WJG	ALT	SGB	3/31/76

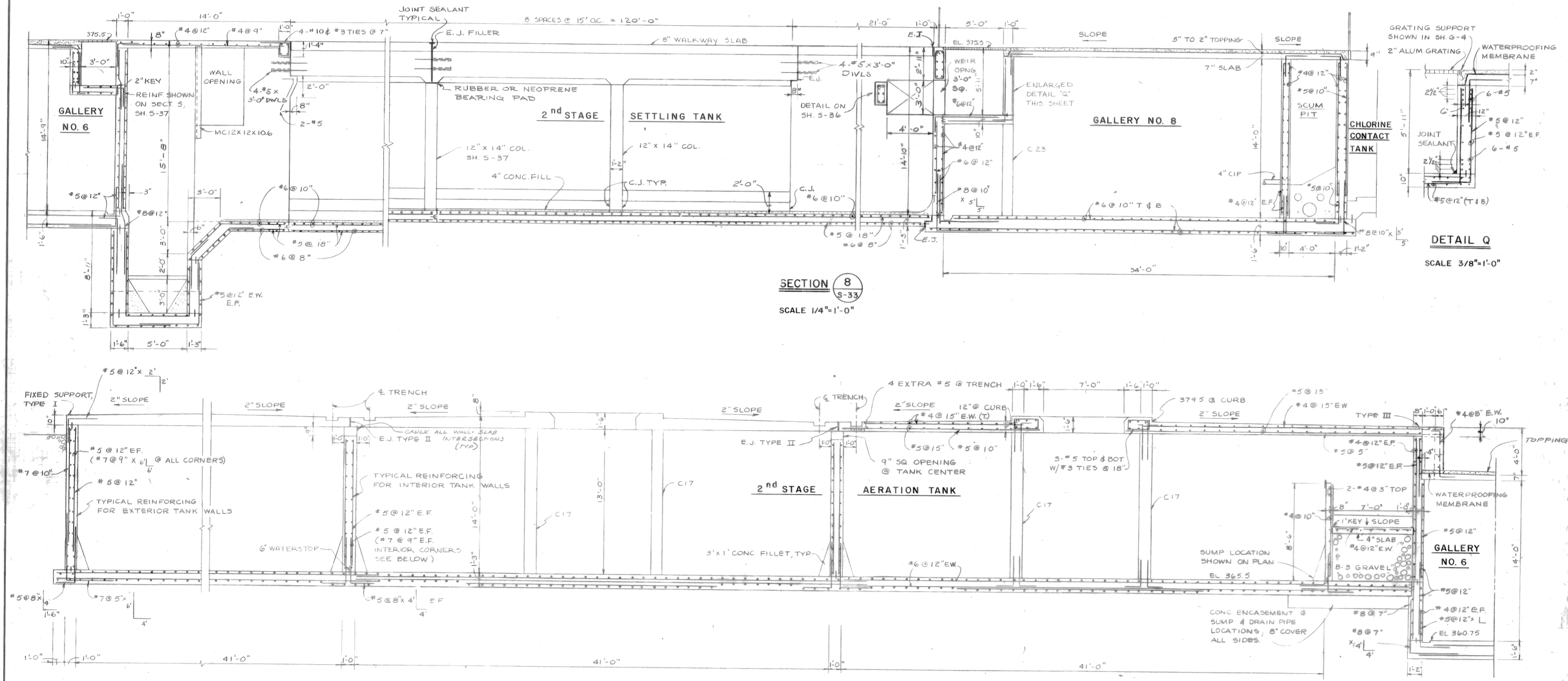
PROJECT SUPERVISOR: Arnold L. Young
APPROVED: S.G. Brisbin

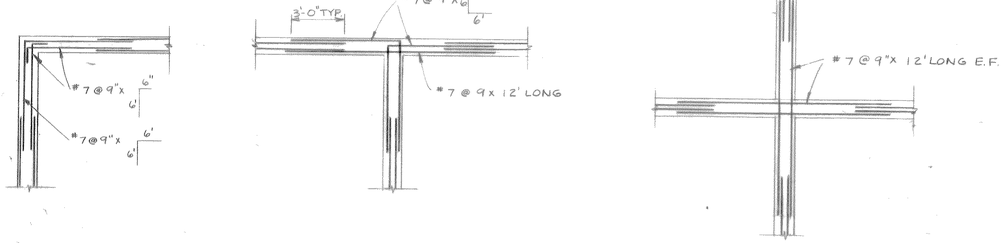
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
1st STAGE SETTLING & AERATION TANKS SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 577 CONTRACT NO. 1 SHEET S-37

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

891





CORNER REINFORCING FOR AERATION TANKS

SCALE 1/4"=1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37956
F.S. KEITH 39959
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD			JKS		9/8/83
2	APPROVED FOR CONSTRUCTION			SCB		2/24/78
	6/CPS 2/15/78		ALT	ALT		
1	FOR APPROVAL			SCB		3/31/76
	CBA	3/30/76	VJG	ALT		

PROJECT SUPERVISOR: Arnold L. Stern APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
2nd STAGE SETTLING & AERATION TANKS SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-38

NOTE:
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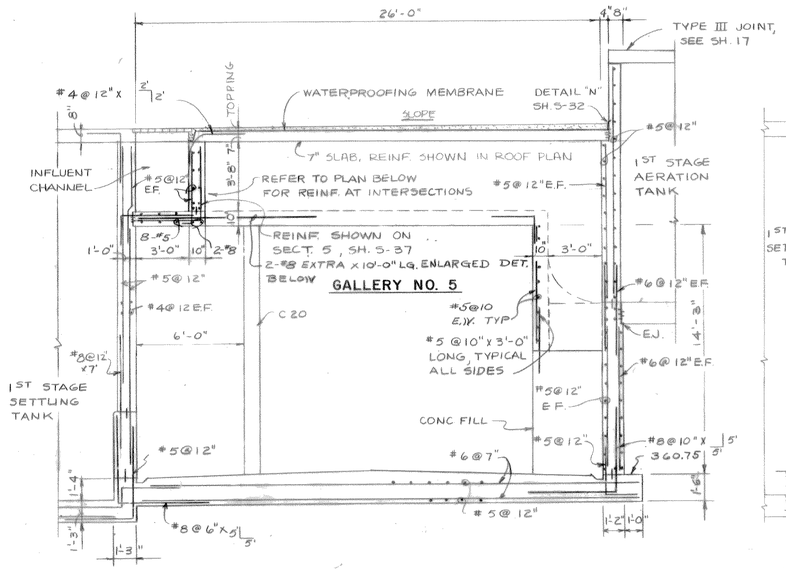
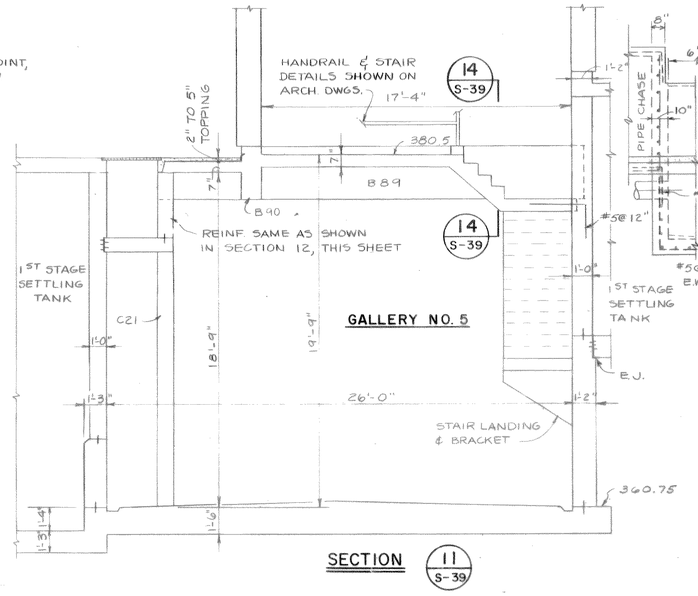


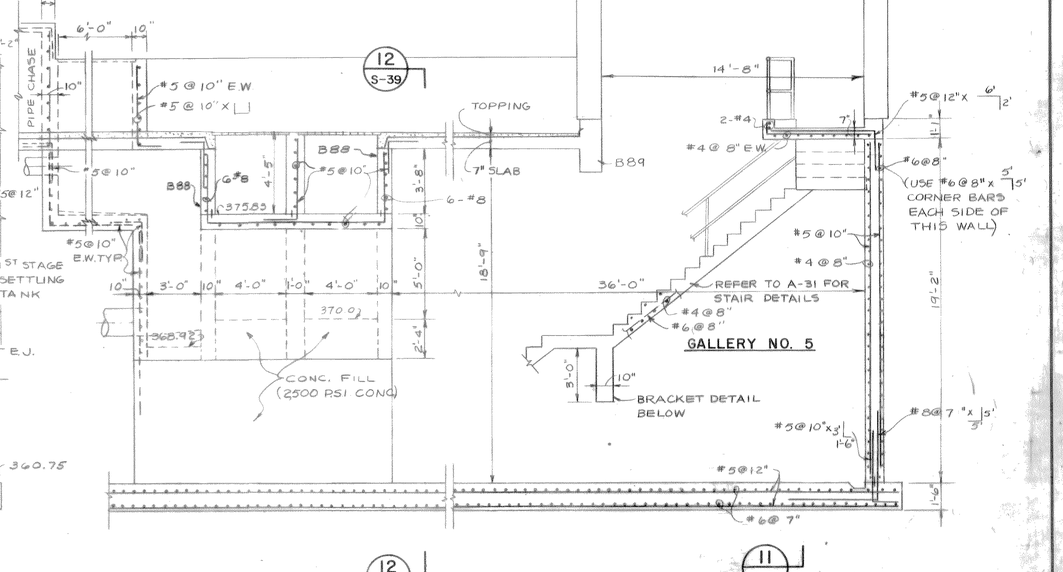
SECTION 12 S-39

SCALE 1/4"=1'-0"



SECTION 11 S-39

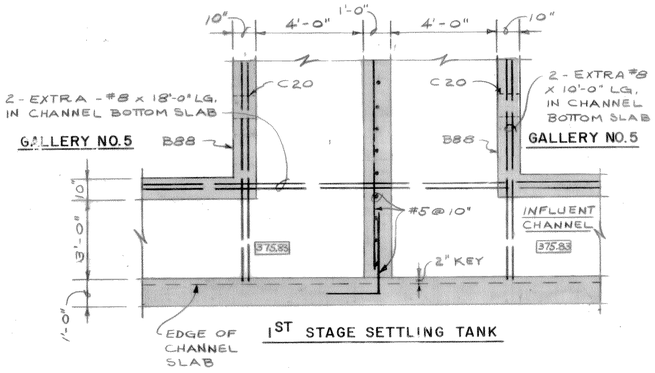
SCALE 1/4"=1'-0"



12 S-39

SECTION 10 S-33

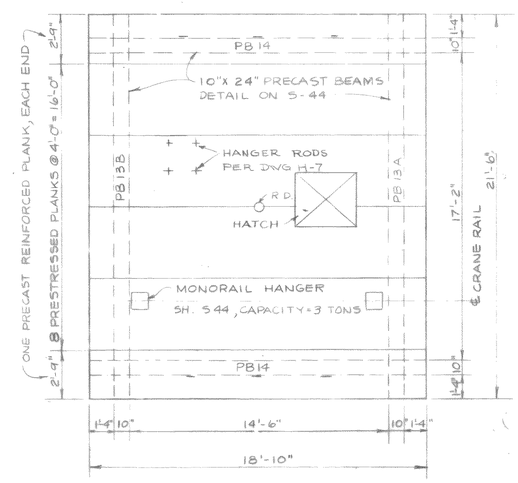
SCALE 1/4"=1'-0"



1ST STAGE SETTLING TANK

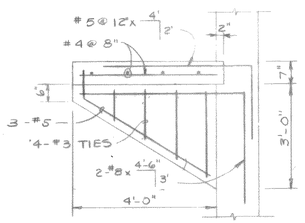
TYPICAL REINFORCING AT CHANNEL INTERSECTIONS

SCALE 3/8"=1'-0"



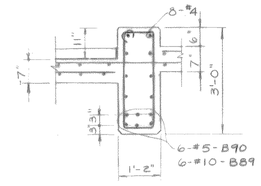
ROOF PLAN

SCALE 1/4" = 1'-0"



LANDING BRACKET

SCALE 1/2"=1'-0"



B89 & B90

SECTION 14 S-39

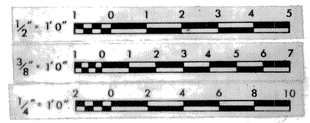
SCALE 1/2"=1'-0"

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD



It is a violation of ... New York State ... for any person, unless acting under the direction of a licensed engineer, ... alter in any way any item on this drawing. If an item is altered, the ... engineer shall affix to the ... this seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

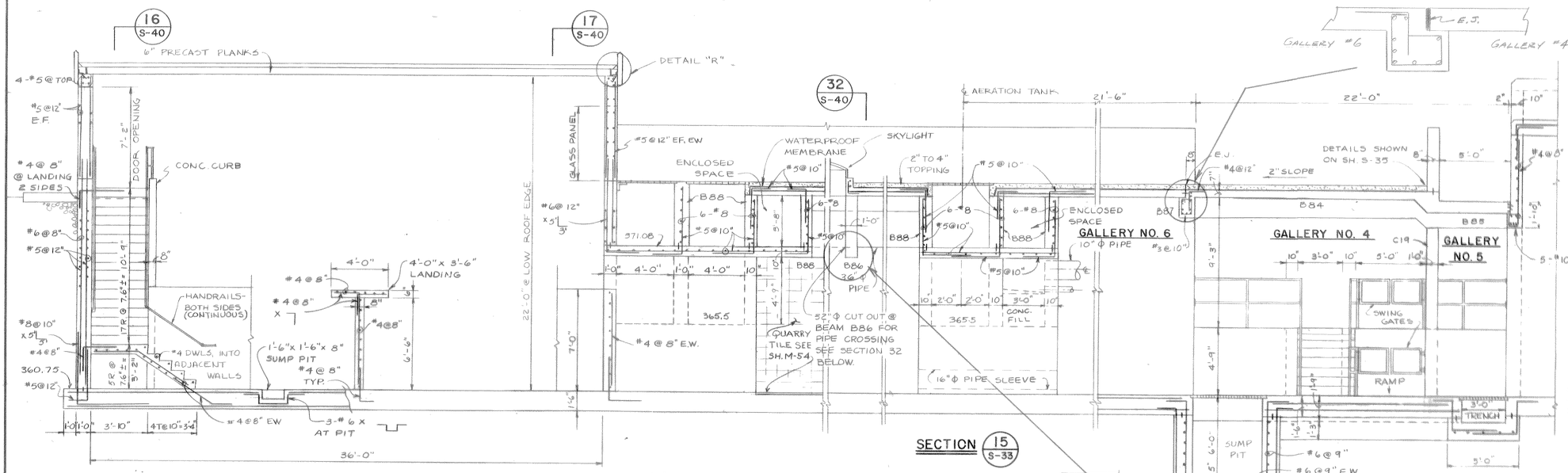
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3 RECORD					ILS	9/8/83
2 APPROVED FOR CONSTRUCTION					SGB	2/24/78
P&/PS 2/15/78	ALT		ALT			
1 FOR APPROVALS					SGB	3/31/76
CEA/PS 3/30/76	WJG		ALT			

PROJECT SUPERVISOR Arnold L. Fong APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 5 & ENTRANCE BLDG.
SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

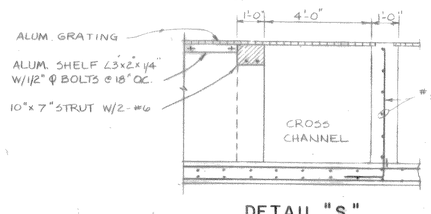
JOB NO. 577 CONTRACT NO. 1 SHEET S-39

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



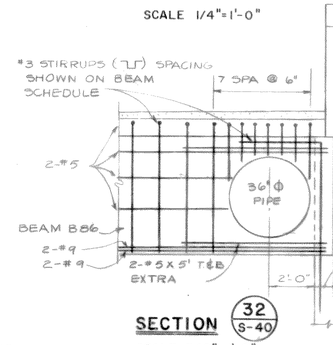
SECTION 15 S-33

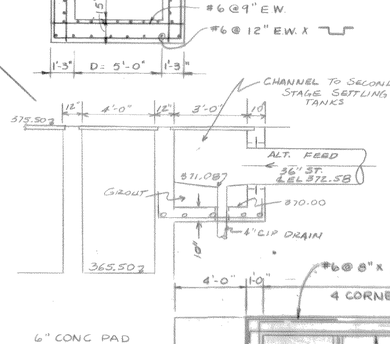
SCALE 1/4"=1'-0"

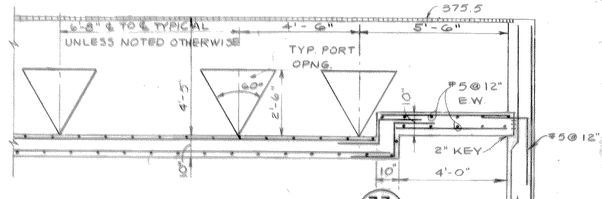


DETAIL "S"

SCALE 3/8"=1'-0"

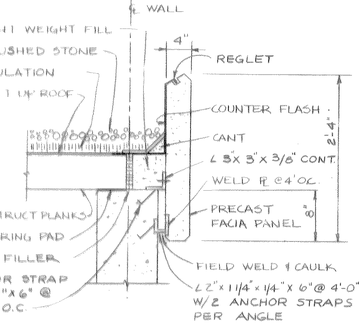






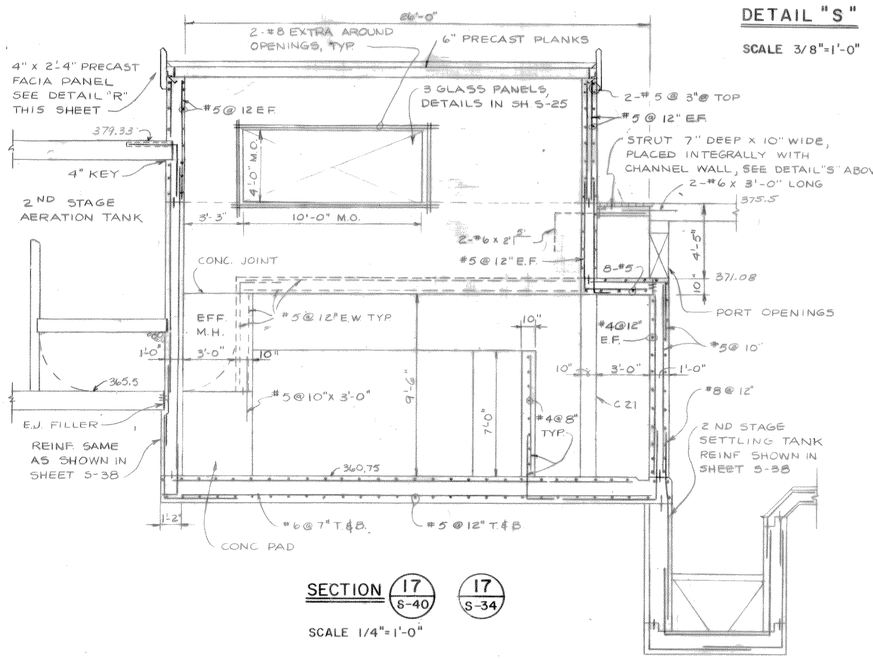
SECTION 33 S-34

SCALE 3/8"=1'-0"



DETAIL "R"

SCALE 1"=1'-0"

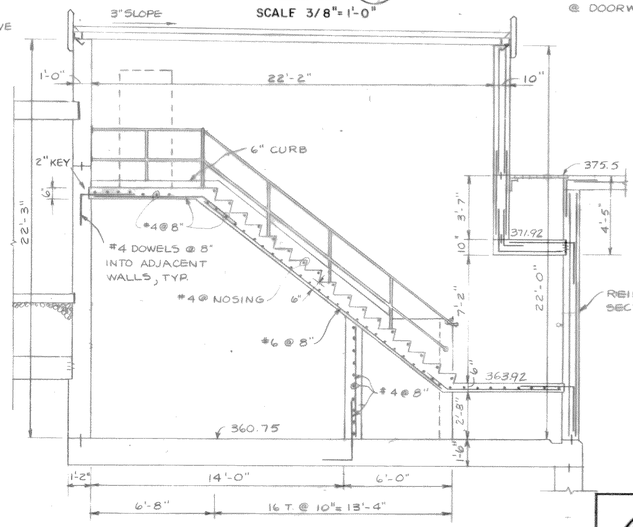


SECTION 17 S-40 17 S-34

SCALE 1/4"=1'-0"

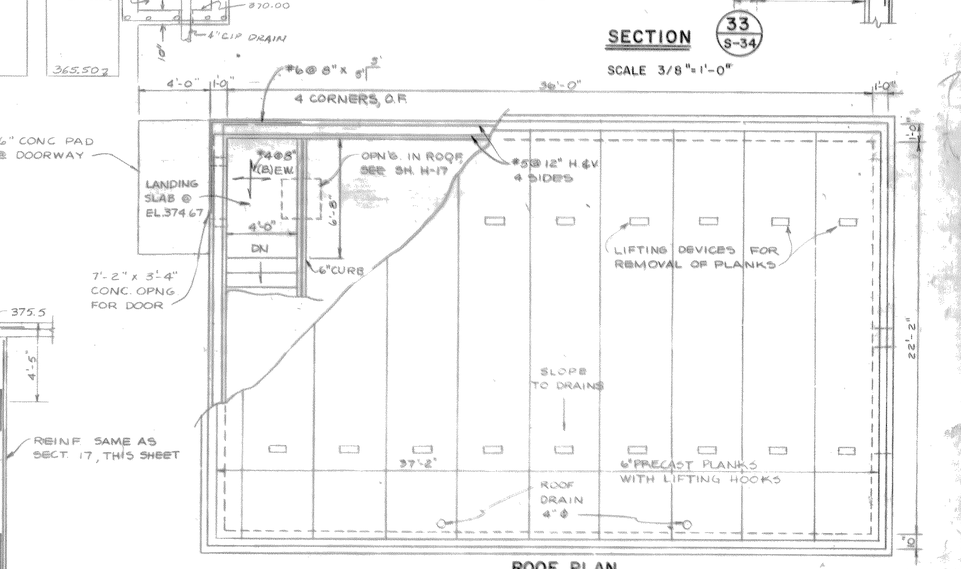
SECTION 32 S-40

SCALE 3/8"=1'-0"



SECTION 16 S-40 16 S-34

SCALE 1/4"=1'-0"



ROOF PLAN

SCALE 1/4"=1'-0"

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

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Date 9-8-83 Per FLD

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1" = 1'0" 1 6 0 1 2

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

1/4" = 1'0" 2 0 2 4 6 8 10

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

NO.	RECORD / APPROVED FOR CONSTRUCTION / FOR APPROVAL	DRAWN	DATE	CHECKED	ENGINEER	APPROVED	DATE
3	RECORD					K.S	1/86
2	APPROVED FOR CONSTRUCTION PS 2/5/78 ALT ALT					S.B	2/2/78
1	FOR APPROVAL CE/PS 12/20/77 WIG ALT					S.B	12/20/77

PROJECT SUPERVISOR: Arnold F. Fiore APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE GALLERY NO. 6 SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-40

SECOND STAGE SETTLING TANKS

EFFLUENT CHANNEL

CHANNEL SLAB

EDGE SLAB

C6 x 4.5 GRATING SUPPORT

MATCH LINE "D"

T.O.W. EL. 375.5

ANCHOR RODS SEE H+V. DWGS.

#5@14"(T) #5@7"(B.)

L.L. = 100 P.S.F. FAN OPNG.

TOP OF CURB 376.0

LIME BIN STORAGE BLDG.

RAILING

SLOPE

2" SLOPE

#5@12" DWLS. WALL OPNG

#5@14"(T)

SLAB ON GRADE

2'X2' HATCH

RAILING ALUM. C8 X 7.8

GRATING

CHLORINE STORAGE BUILDING

CHLORINE CONTACT TANK NO. 1

MIXER

ALUM. L 3 X 2 X 1/4 WELDED TO C8 & BOLTED TO CONC. WALL EACH SIDE

FOUNDATION DETAIL SAME AS SECTION 21 THIS SHEET

T.O.W. 374.5

C24

#5@12" DWLS.

CONC. FILL - SLOPE TO PIPE 1/4"/FT.

CHLORINE CONTACT TANK NO. 2

8" CONC. BLK. BAFFLE WALL

T.O.W. 376.5

54" ϕ EFF. PIPE

INV. EL. 366.0

CONC. FILL

T.O.W. 376.5

WALL REINF. SAME AS OPPOSITE SIDE

TOW 380.25

EFFLUENT CHANNEL

37'-0"

77'-0"

PLAN AT EL. 376.5

SCALE 1/8"=1'-0"

TYPICAL 42" x 42" SKYLIGHT TYPE "F", WITH 4" x 12" CURB DETAILS SHOWN IN SH S-47 ¢ A-38

GALLERY NO. 8

PLAN AT EL. 360.75

SCALE 1/8"=1'-0"

GUTTER @ 360.75

SUMP

FIBERGLASS GRATING

HIGH POINT @EL. 361.17

SLAB E.J.

CURB

2'X6' CONC. PADS

EL. 364.0

EL. 358.0

EL. 357.67

LIME BIN STORAGE BLDG.

SECTION 19 S-41

SCALE 1/4"=1'-0"

SECTION 38 S-41

SECTION 37 S-41

SCALE 1/4"=1'-0"

SECTION 35 S-41

SCALE 1/4"=1'-0"

37'-0" CHLORINE STORAGE BLDG.

EL 374.5 AT HIGH SIDE

TYPICAL DETAIL SHOWN IN SECTION 21 THIS SHEET

WALKWAY

#4@8" DOWELED INTO WALL

FILL CHAMFER W/ GROUT

WALL OPENING FOR SCUM PIPE

EL. 366.67 @ HIGH POINT

CONC. FILL

CONC. BLOCKS WITH CORES LAID HORIZONTALLY IN ALTERNATE COURSES

BAFFLE WALL

EL. 375.5

C6x4.5x12'-0" OVER WALL OPENINGS

SEE SECT 18 FOR REINF.

PRESSURE RELIEF VALVE

SECTION 20 S-41

SCALE 1/4"=1'-0"

SHELF ANGLE AT TOP OF WALL SHOWN IN SH. A-37

SECTION 21 S-41

SCALE 3/8"=1'-0"

SECTION 18 S-41 / 18 S-34

SCALE 3/8"=1'-0"

REINF SHOWN IN SECT. 22, SH. S-42

SEE SECT. 18, SH. S-41 FOR REINF.

FORM TO BE LEFT IN PLACE

6x6x6/6 W.W.F.

SECTION 37 S-41

SCALE 1/4"=1'-0"

TOP/GRATING 375.5

MIXER SUPPORT BY EQUIP. MFR.

L 3 x 2 x 1/4 ALUM. F.L. W/ 3/8" ϕ BOLTS @ 18"

SECTION 35 S-41

SCALE 1/4"=1'-0"

REGULAR REINFORCING SHOWN ON SECT. 22, SH S-42

FIBERGLASS LINER PER CONTRACT #4

SECTION 38 S-41

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

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Date 9-8-83 Per FLD

1" = 1'0" 3/8" = 1'0" 1/4" = 1'0" 1/8" = 1'0"

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

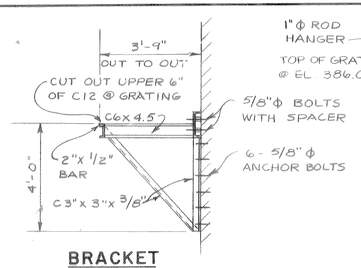
NO.					
3	RECORD			K.S.	9/6/83
2	APPROVED FOR CONSTRUCTION	PS 2/5/78	BLT ALT	S.G.B.	2/24/78
1	FOR APPROVALS	CEA 8/30/76	W.J.G. ALT	S.G.B.	8/31/76
ISSUE NO.		DRAWN DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: Arnold L. Stone APPROVED: S.G. Brisbin

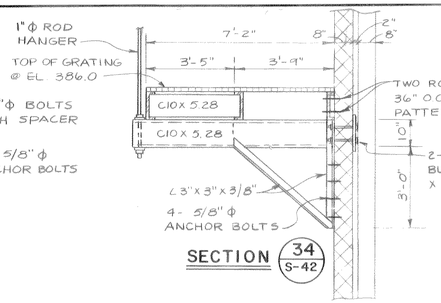
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE TANKS & STORAGE BLDG.
PLAN & SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

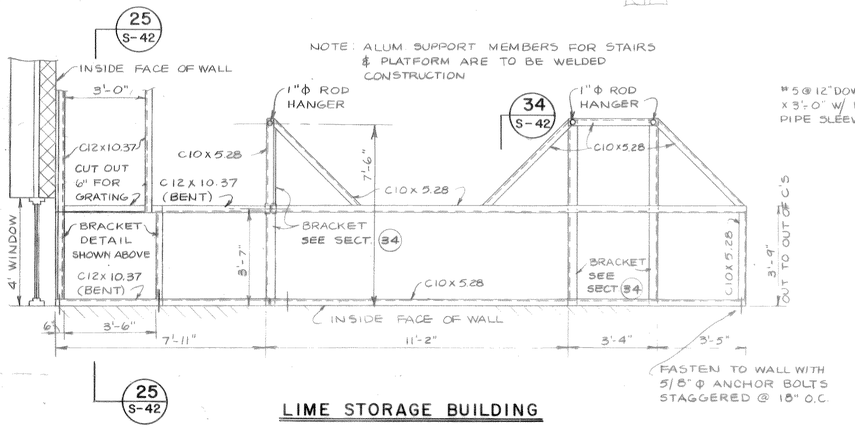
JOB NO. 577 CONTRACT NO. 1 SHEET S-41



BRACKET



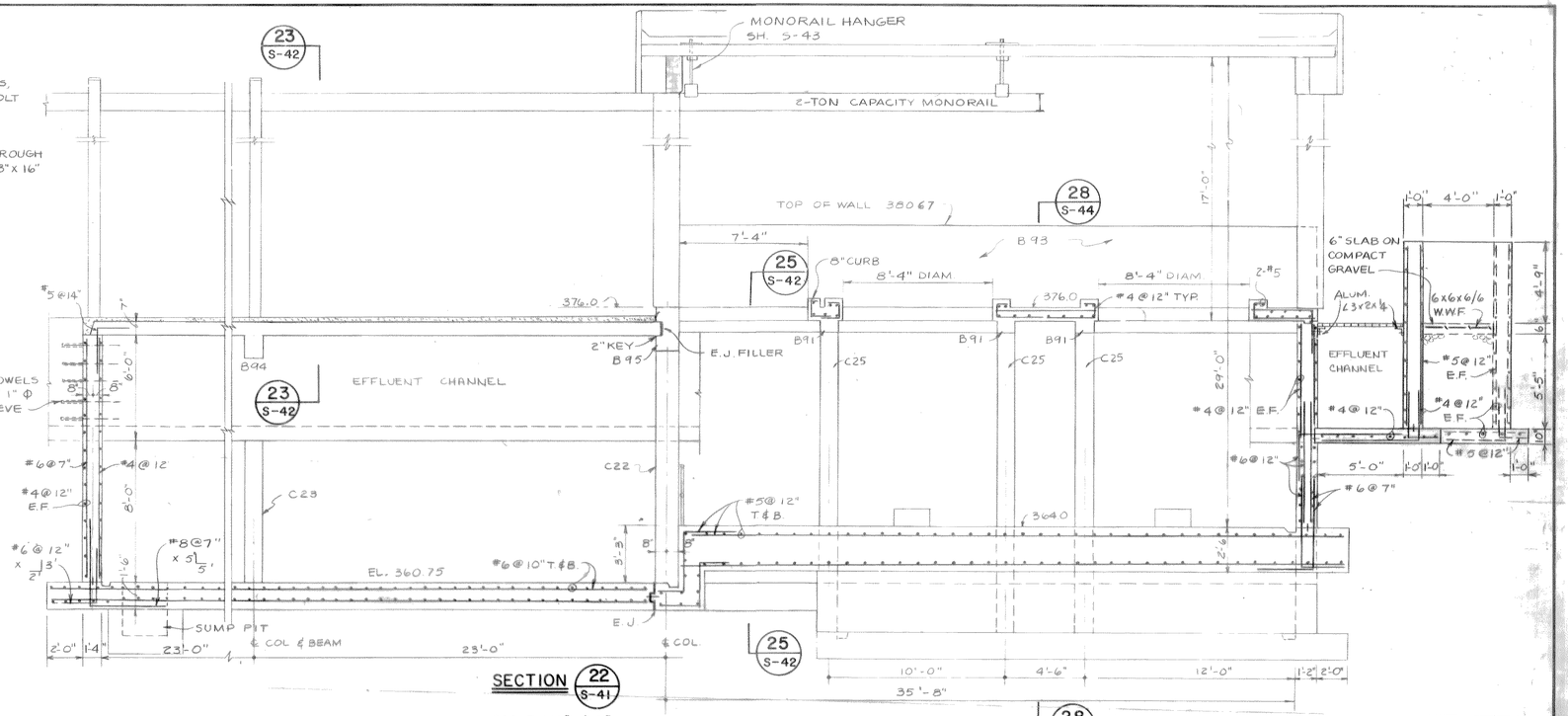
SECTION 34 S-42



LIME STORAGE BUILDING

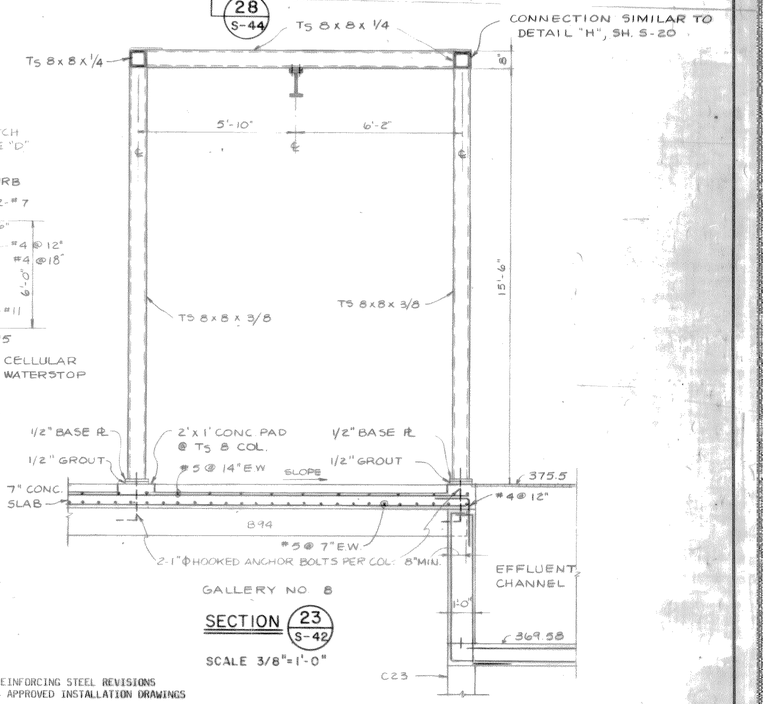
STAIRWAY & WALKWAY FRAMING PLAN

SCALE 3/8"=1'-0"



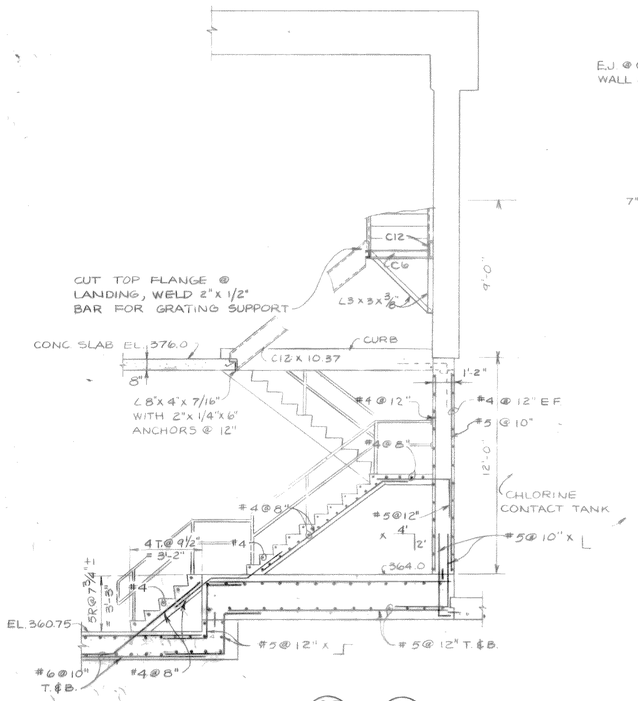
SECTION 22 S-41

SCALE 1/4"=1'-0"



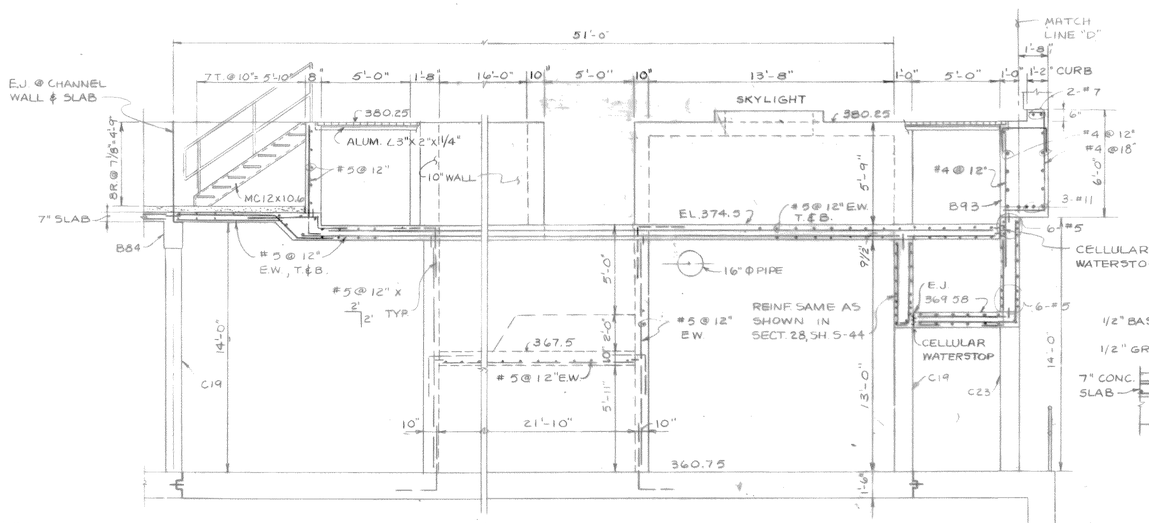
SECTION 23 S-42

SCALE 3/8"=1'-0"



SECTION 25 S-42 25 S-41

SCALE 1/4"=1'-0"



SECTION 24 S-34

SCALE 1/4"=1'-0"

RECORD DRAWING

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Date 9-8-83 Per F.E.D

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

NO.	DESCRIPTION	DATE	BY
3	RECORD		LS 9/6/83
2	APPROVED FOR CONSTRUCTION PS 2/5/78		SGB 6/24/78
1	FOR APPROVAL CEA/PS 2/30/76	VJG	ALT SGB 6/24/76

DRAWN | DATE | CHECKED | DESIGNER | APPROVED | DATE

PROJECT SUPERVISOR: S.G. Brisbin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 7 & NO. 8
SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-42

NOTE:
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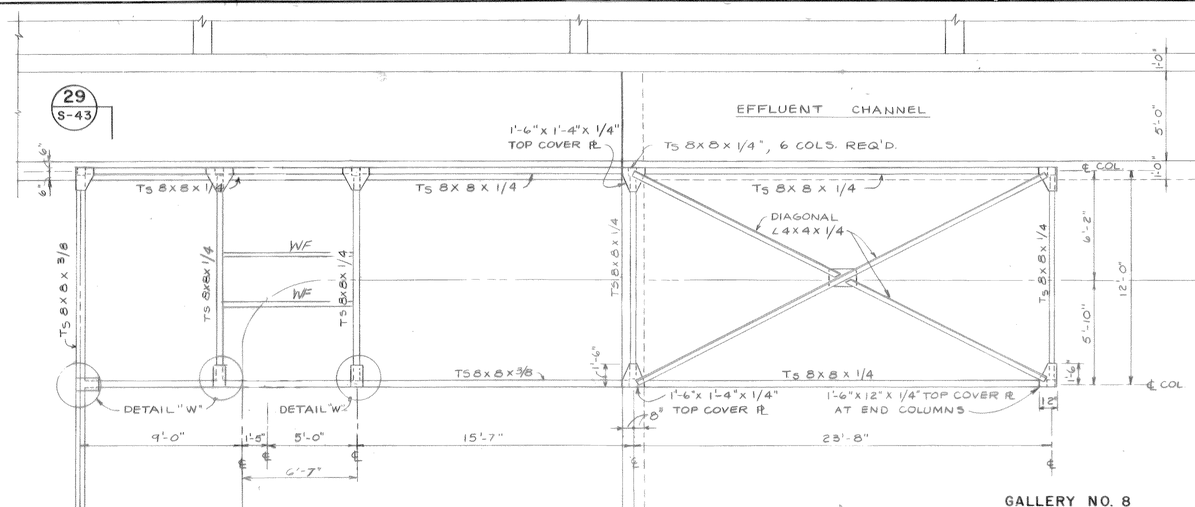
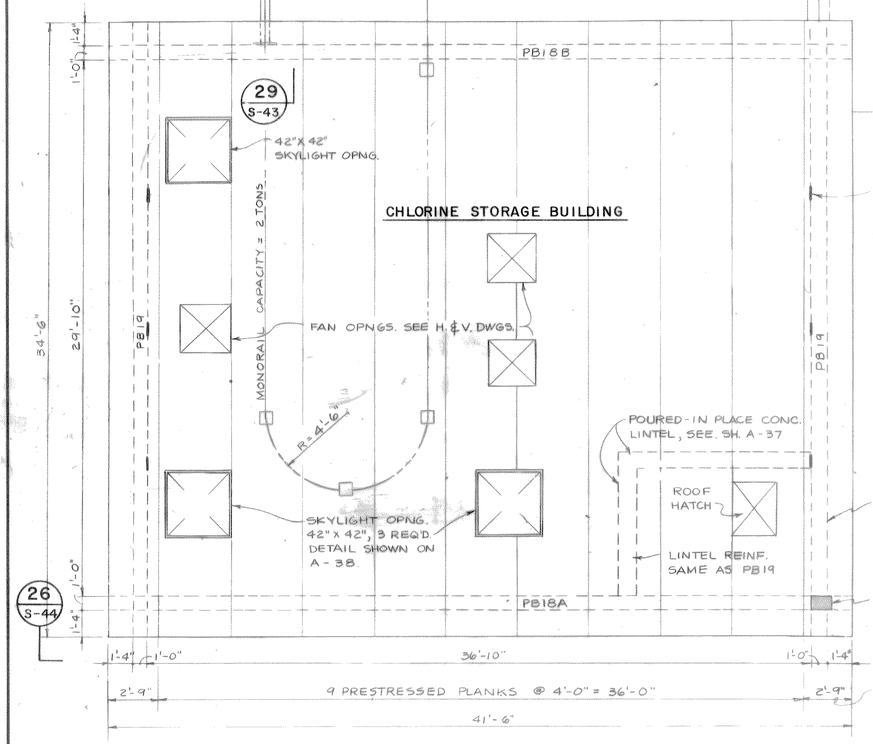
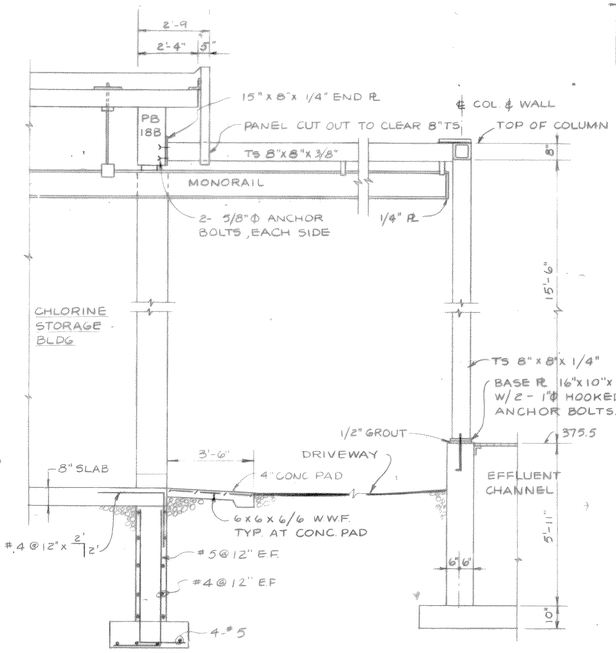
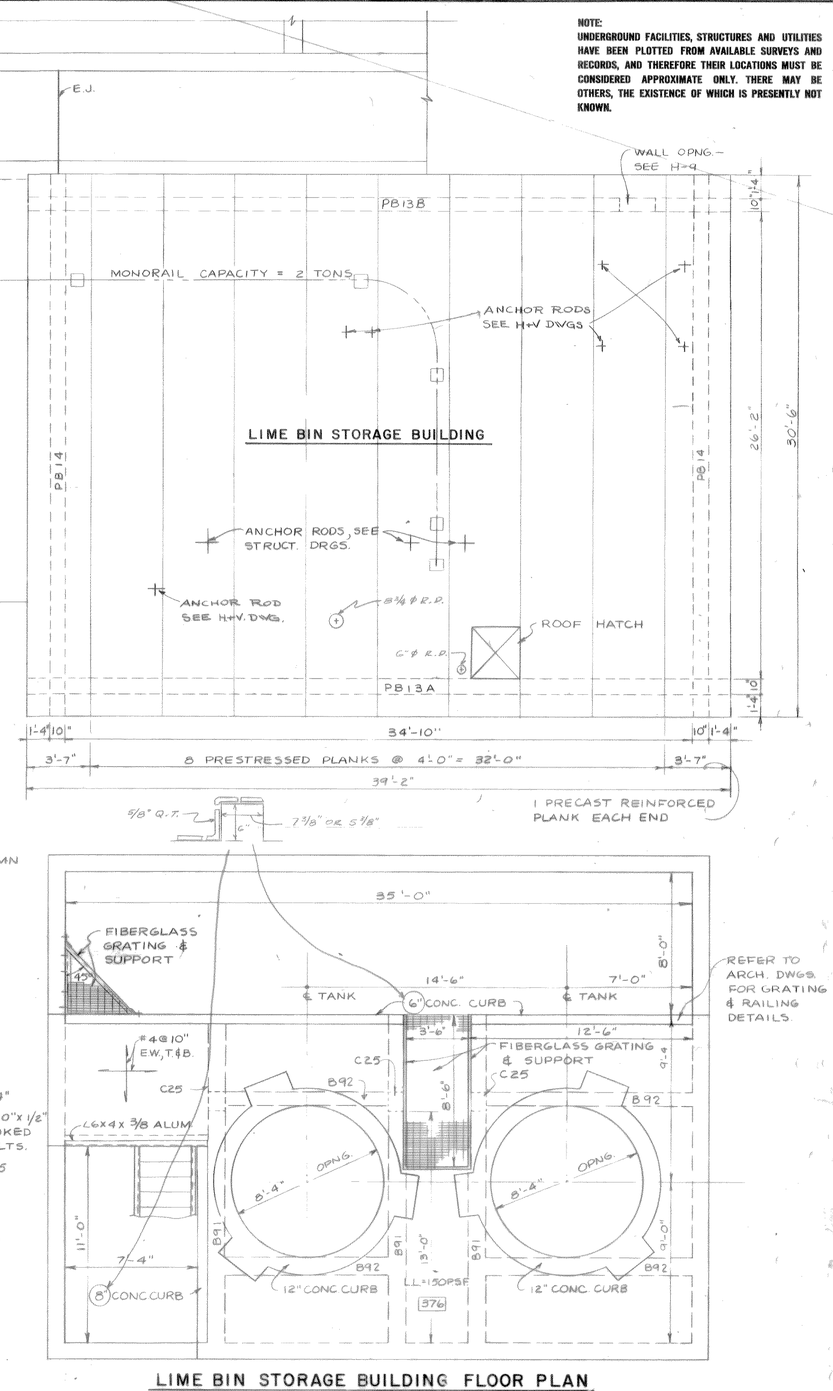




ROOF PLAN
SCALE 1/4"= 1'-0"

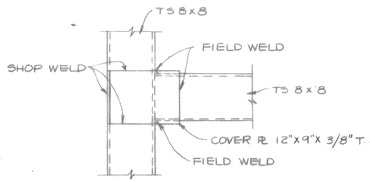
WELD CONNECTIONS BETWEEN PB19 (OR PB14) TO RC PLANK AT 1/4 POINTS. TYPICAL FOR ALL RC PLANKS





LIME BIN STORAGE BUILDING FLOOR PLAN
SCALE 1/4"=1'-0"

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS



DETAIL "W"
SCALE 1"=1'-0"

SECTION 29 S-43
SCALE 3/8"=1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

1" = 1'0" 1 6 0 1 2
3/8" = 1'0" 1 0 1 2 3 4 5 6 7
1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	PS	3/5/76	ALT	ALT	S.G.B 2/24/78
1	FOR APPROVAL	CEA/PS	3/30/76	VJG	ALT	S.G.B 3/31/76

PROJECT SUPERVISOR Crawford R. Fry APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE & LIME BIN STORAGE BLDGS.
PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 57.7 CONTRACT NO. 1 SHEET S-43

NOTE:
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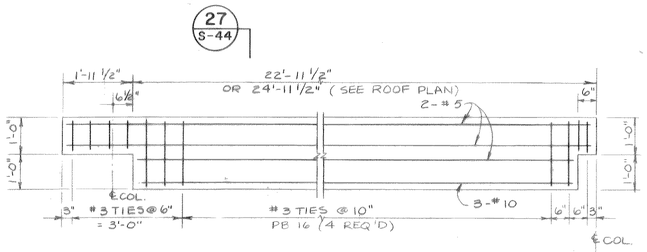
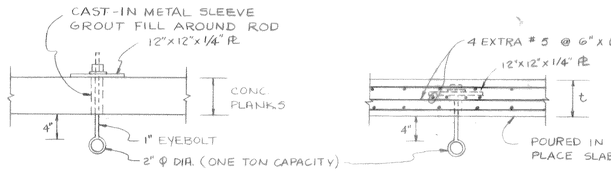


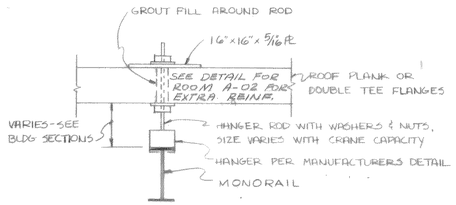
PB15, PB16 & PB17

NO SCALE



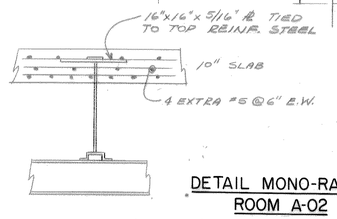
LIFTING HOOK DETAIL

SCALE 1"=1'-0"

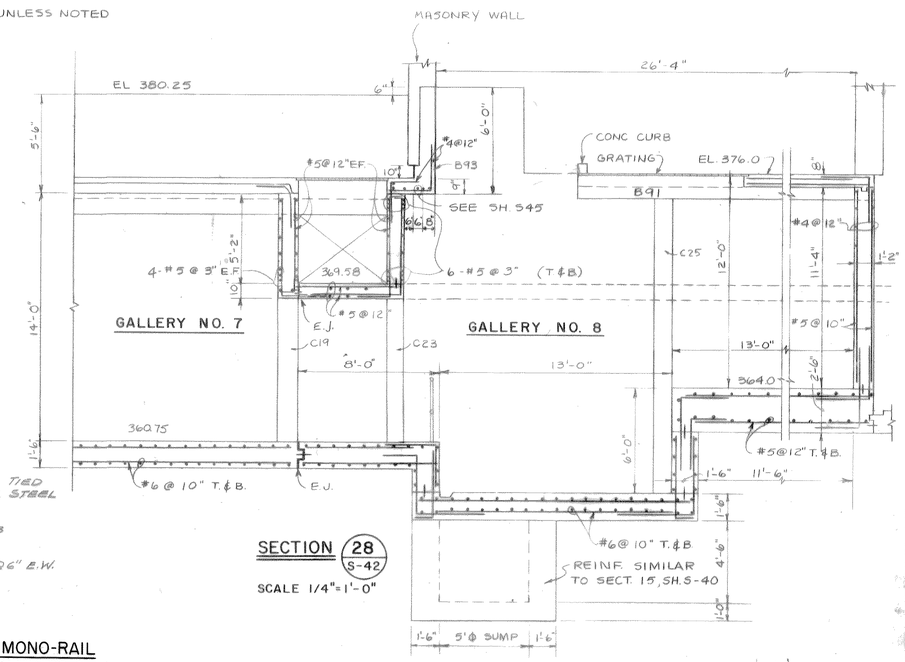


DETAIL "T" MONORAIL HANGER

SCALE 1"=1'-0"



DETAIL MONO-RAIL ROOM A-02

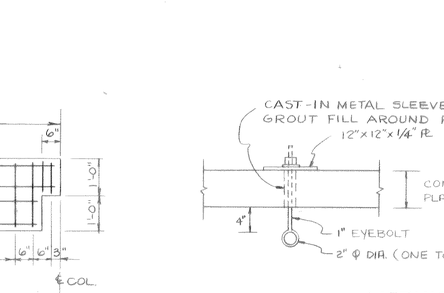


SECTION 28 / S-42

SCALE 1/4"=1'-0"

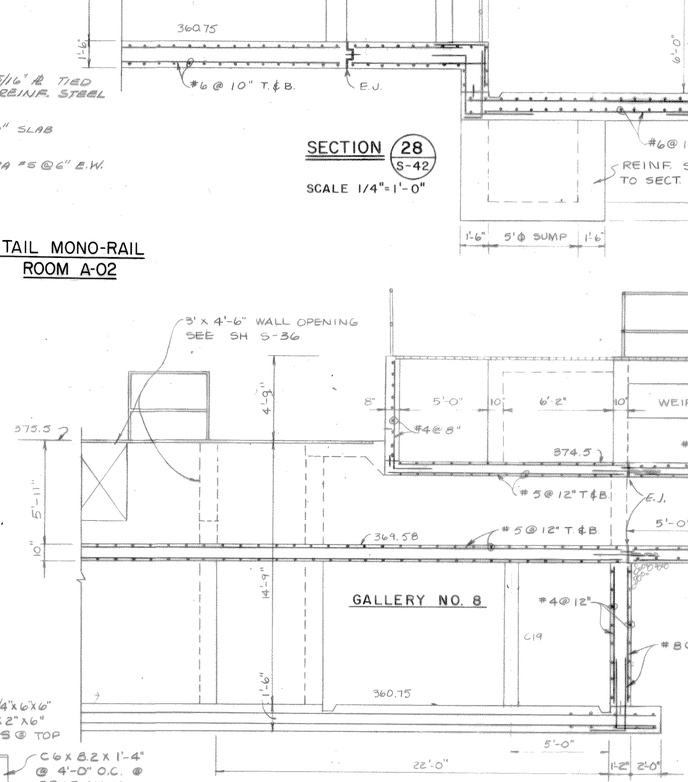
SECTION 26 / S-43

SCALE 3/4"=1'-0"



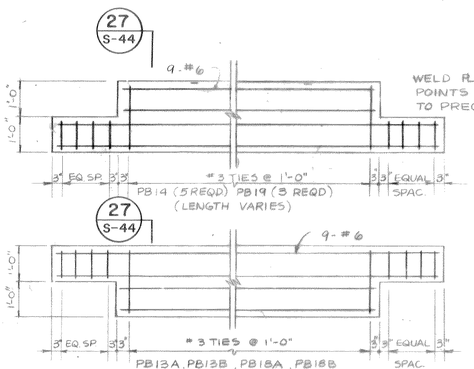
TYPICAL DETAIL V NOTCH AT SLIDE GATE

NO SCALE



SECTION 19 / S-33

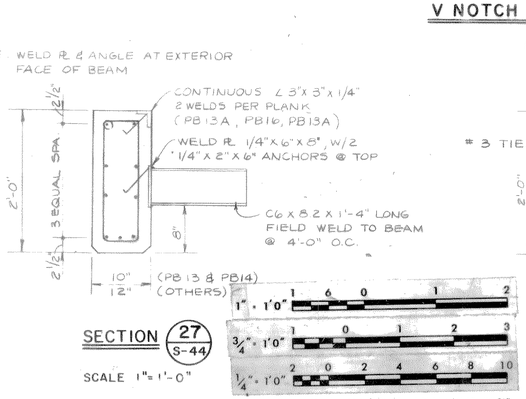
SCALE 1/4"=1'-0"



NOTE ① PB13, PB14, PB 18 & PB19 TO BE PLACED AFTER MASONRY WALLS ARE IN PLACE.
② WELD PLATES & ANGLES SHOWN IN ENLARGED DETAILS.

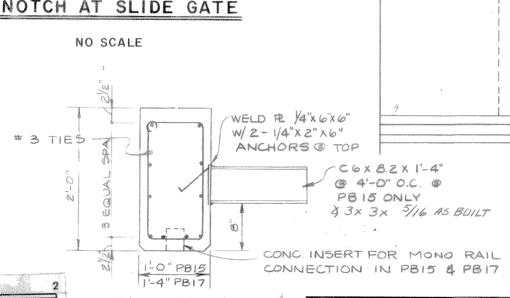
PB13, PB14, PB18 & PB19

NO SCALE



SECTION 27 / S-44

SCALE 1"=1'-0"



CROSS SECTION OF PB15 & PB17

SECTION 30 / S-44

SCALE 1"=1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 By FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

NOTE:
INSERTS OR PLATES IN POURED CONCRETE FOR PRECAST OR PRESTRESSED CONCRETE SHALL BE FURNISHED BY THOSE MANUFACTURERS TO GENERAL CONTRACTOR FOR INSTALLATION

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION		RC/PS	12/17/76	ALT	SCB 2/24/78
1	FOR APPROVALS		CEA/PS	3/30/76	WJG ALT	SCB 3/31/76

PROJECT SUPERVISOR: Charles L. Fox
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
PRECAST BEAMS & MISCELLANEOUS DETAILS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET S-44

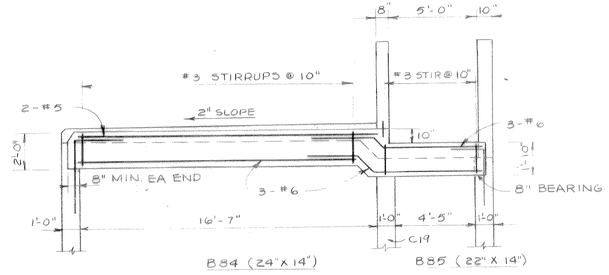
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

BEAM SCHEDULE

MARK	W (INCHES)	T (INCHES)	REINFORCING STEEL A	B	C	D	#3 STIRRUPS & SPACINGS FROM NORTH TO SOUTH OR WEST TO EAST UNLESS NOTED OTHERWISE	REMARKS
B51	12	24	3-#8	—	2-#5	—	9" SPACING, F.L.	GALLERY NO. 1, 3 REQUIRED
B52	12	24	3-#8	—	2-#5	—	9" SPACING, F.L.	do.
B53	16	30	3-#10	2-#10x20'	2-#5	—	#4 TIES @ 10" F.L.	do.
B54	14	24	2-#9 F.L. 1-#9x22'	—	2-#10 F.L. 1-#10x10'	—	10" SPACING, F.L.	SLUDGE THICKENER RM. 3-SPAN CONTINUOUS
B55	14	24	2-#9	—	2-#10	—		
B56	14	24	2-#9	—				
B57	14	24	2-#10	—	2-#10	—	10" SPACING, F.L.	
B58	14	24	2-#10	—	2-#10 1-#10x10'	—	10" SPACING, F.L. 17 @ 7", REMAINDER @ 10"	do.
B59	14	24	2-#10	—				
B60	14	24	3-#10	—	2-#10 1-#10x10'	—	12 @ 6" E.E., REMAINDER @ 10"	
B61	14	24	3-#10	—	2-#10 1-#10x10'	—	do.	do.
B62	14	24	3-#10	—			do.	
B63	14	20	2-#7	—	2-#5	—	9" SPACING, F.L.	SLUDGE THICKENER RM
B64	14	20	3-#10	—	2-#5	—	9" SPACING, F.L.	do.
B65	14	20	2-#10	2-#10x28'	2-#5	—	9" SPACING, F.L.	do.
B66	14	20	2-#7	—	2-#5	—	9" SPACING, F.L.	do.
B67	10	15	2-#6	—	2-#4	—	NONE	SLUDGE THICKENER RM. MEZZ.
B68	12	21	2-#9 1-#9x17'	—	2-#9x17' 1-#9x7'	—	9" SPACING, F.L.	OXYGEN GEN. RM. 2-SPAN CONTINUOUS
B69	12	21	2-#6	—			9" SPACING, F.L.	
B70	20	21	2-#10	—	2-#11x23' 3-#11x12'	—	24 @ 9", REMAINDER @ 5"	do.
B71	20	21	3-#11 2-#11x24'	—			17 @ 5" E.E., REMAINDER @ 9"	
B72	16	21	4-#6	—	2-#6 2-#6x8'	—	9" SPACING, F.L.	OXYGEN GEN. RM. 4-SPAN CONTINUOUS
B73	16	21	2-#6 1-#6x9'	—	2-#6 2-#6x8'	—	do.	
B74	16	21	2-#6 1-#6x9'	—	2-#6 1-#6x8'	—	do.	
B75	16	21	2-#6	—				
B76	16	32	2-#10	—	2-#10x20' 2-#10x12'	2-#10x12'	15 @ 14", REMAINDER @ 5"	OXYGEN GEN. RM. 2-SPAN CONTINUOUS
B77	16	32	4-#10	—			18 @ 3 1/2", 11 @ 5", REMAINDER @ 14"	
B78	14	21	2-#8	—	2-#11x21' 1-#11x11'	—	9" SPACING, F.L.	do.
B79	14	21	2-#9 1-#9x22'	—			9" SPACING, F.L.	do.
B80	16	32	2-#10	—	2-#10x31' 2-#10x13'	2-#9x9'	15" @ 14", REMAINDER @ 5"	do.
B81	16	32	4-#10	—			11 @ 4", 12 @ 5", REMAINDER @ 14"	
B82	14	30	3-#11	2-#11 F.L.	2-#11 F.L.	2-#11 F.L.	SEE SHEET 531, SEE SECTION 10	GALLERY NO. 4 2-SPAN CONTINUOUS
B83	14	30	3-#11	2-#11 F.L.			SEE SHEET 531, SEE SECTION 10	
B84	14	24	SEE BEAM DETAIL SH. S45					GALLERY NO. 7
B85	14	22	do.					do.
B86	12	54	2-#9	2-#9 F.L.	2-#5	SEE SH. 40	7@6" E.E. REMAINDER @ 12"	GALLERY NO. 6
B87	14	24	3-#10	2-#10x20'	2-#5	2-#5	SEE SHEET NO. 40, SECT. 15	do.
B88	10	44	SEE BEAM CROSS SECTION, SH. S40					do.
B89	14	36	3-#10	3-#10 F.L.	2-#4	SEE SH. S39	10 @ 4", 6@6" E.E., REM @ 14"	ENTRANCE BLDG.
B90	14	36	3-#5	3-#5 F.L.	2-#4	SEE SH. S39	16" SPACING, F.L.	do.
B91	12	18	3-#9	—	2-#5	—	6" SPACING, F.L.	LIME STORAGE BLDG.
B92	10	18	2-#9	—	2-#5	—	do.	do.
B93			SEE BEAM DETAIL, SH. S45					do.
B94	16	32	3-#11	3-#8x22'	2-#5		5-@11" E.E. REMAINDER @ 14"	GALLERY NO. 8
B95	16	32	3-#11	3-#10x22'	2-#5		11 @ 7" E.E. REMAINDER @ 14"	do.
B96	12	24	3-#10	—	2-#5	—	9 @ 11" E.E. REMAINDER @ 18"	MECHANICAL ROOM

E.E. = EACH END, F.L. = FULL LENGTH OF BEAM

STIRRUPS SHALL BE CLOSED FOR ALL SPANDREL BEAMS AND ALL BEAMS FRAMING FLOOR OPENINGS WHICH EXCEED 1/2 OF THE LENGTH OF THE BEAM BETWEEN SUPPORTS.



TYPICAL DETAIL FOR BEAMS B84 & B85

SCALE 1/4"=1'-0"

COLUMN SCHEDULE

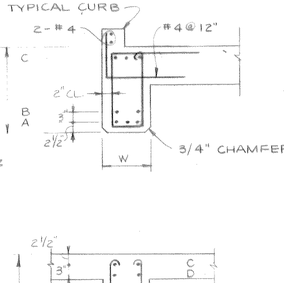
MARK	SIZE W1 x W2 INCHES	VERTICAL REINF	TIES & SPACINGS	REMARKS
C11	12"x12"	4-#10	#3@12"	SLUDGE THICKENER RM.
C12	10"x10"	4-#6	#3@10"	GRIT REMOVAL BLDG.
C13	12"x12"	4-#11	#4@12"	CRANE RAIL COVER
C14	12"x12"	4-#7	#3@12"	WALKWAY COVER
C15 C15A	16"x16"	8-#8	#3@16"	DIGESTERS
C16 C16A	14"x14"	4-#7	#3@14"	OXYGEN GEN. RM.
C17	12"x12"	4-#6	#3@12"	AERATION TANKS
C18	10"x10"	4-#6	#3@10"	GALLERY NO. 2
C19	12"x12"	4-#6	#3@12"	GALLERY NOS. 4 & 7
C20	10"x10"	4-#5	#3@10"	GALLERY NOS. 5 & 6
C21	10"x12"	4-#5	#3@10"	GALLERY NOS. 5 & 6
C22	16"x32"	8-#8	2 SETS OF #3@16"	GALLERY NO. 8
C23	12"x12"	4-#6	#3@12"	GALLERY NO. 8
C24	12"x16"	4-#7	#3@12"	CHLORINE STORAGE BLDG.
C25	12"x12"	4-#10	#3@12"	LIME STORAGE ROOM
C26	12"x12"	4-#8	#3@12"	GALLERY NO. 1

TYPICAL COLUMN DETAIL

NO SCALE

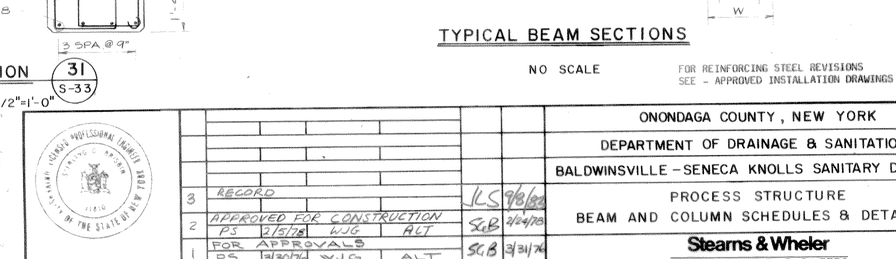
SECTION 31 (S-33)

SCALE 1/2"=1'-0"



SINGLE SPAN

NO SCALE



CONTINUOUS SPANS

NO SCALE

BEAM B93

TYPICAL BEAM SECTIONS

NO SCALE

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING
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Date 9-8-83 Per FLD

1/2" = 1'0" 1 0 1 2 3 4 5

1/4" = 1'0" 2 0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	APPROVED FOR CONSTRUCTION	PS	2/5/78	WJG	ALT	S.C.B. 2/24/78
1	FOR APPROVALS	PS	3/30/76	WJG	ALT	S.C.B. 3/31/76

PROJECT SUPERVISOR Arnold L. Stange APPROVED S. C. Boudreau

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
BEAM AND COLUMN SCHEDULES & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-45

NOTE:
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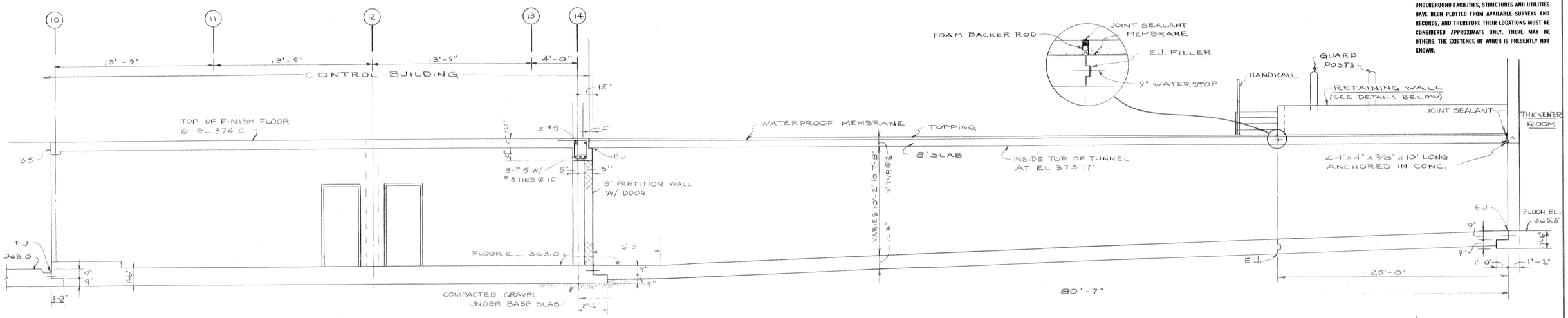
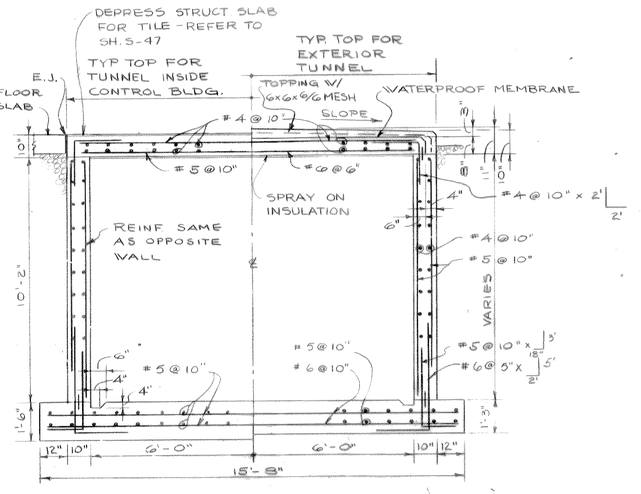


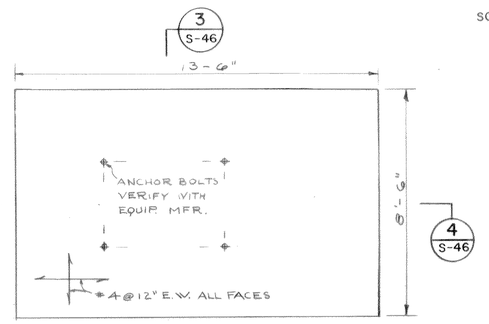
CENTER LINE SECTION ENTIRE LENGTH OF TUNNEL

SCALE 1/4"=1'-0"



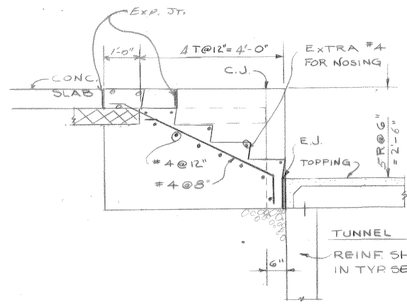
TYPICAL TUNNEL SECTION

SCALE 3/8"=1'-0"



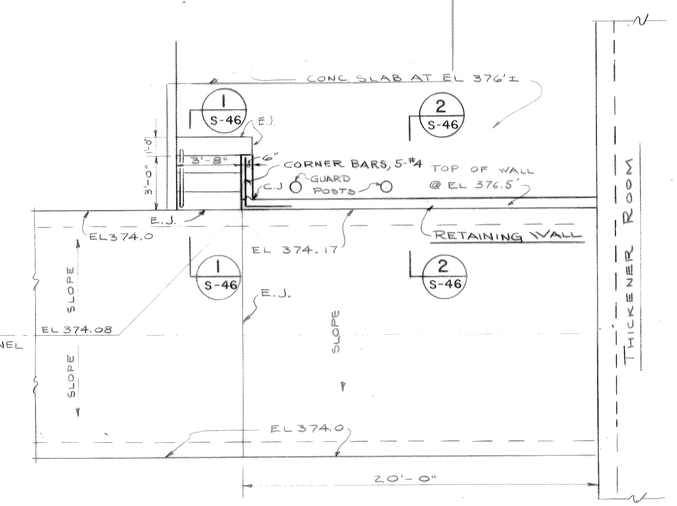
COMPRESSOR BASE PAD PLAN

SCALE 3/8" = 1'-0"



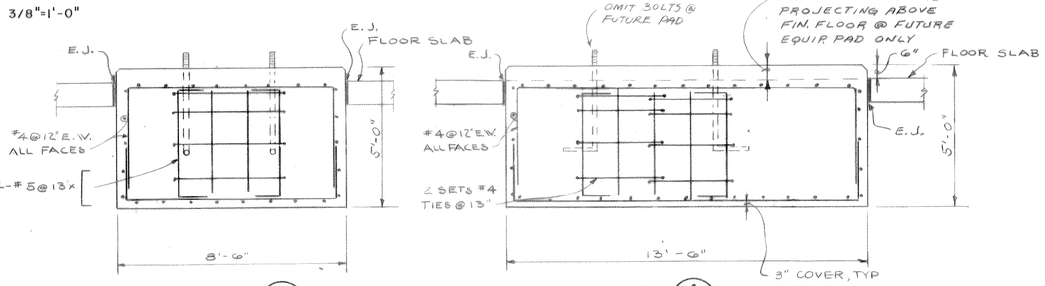
SECTION 1 S-46

SCALE 1/2" = 1'-0"



RETAINING WALL PLAN

SCALE 1/4" = 1'-0"

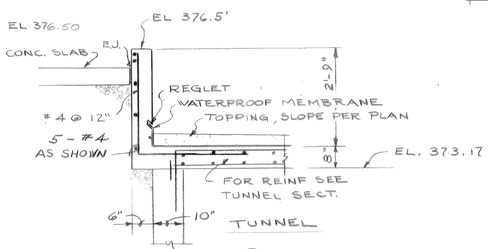


SECTION 3 S-46

SCALE 3/8" = 1'-0"

SECTION 4 S-46

SCALE 3/8" = 1'-0"



SECTION 2 S-46

SCALE 1/2" = 1'-0"

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

1/4" = 1'0" 2 0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				W.L.S.	9/8/83
2	APPROVED FOR CONSTRUCTION				S.C.B.	4/24/78
	RFG	2/15/78	W.J.G.	ALT		
1	FOR APPROVALS				S.C.B.	3/31/76
	RFG	3/30/76	ALT	JEI		

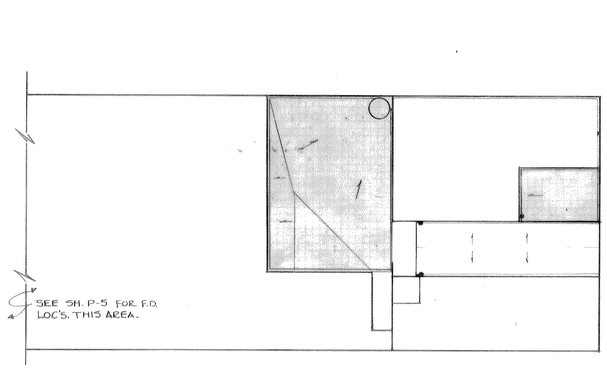
PROJECT SUPERVISOR Arnold L. Jong APPROVED S. C. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

TUNNEL DETAIL & COMPRESSOR BASES

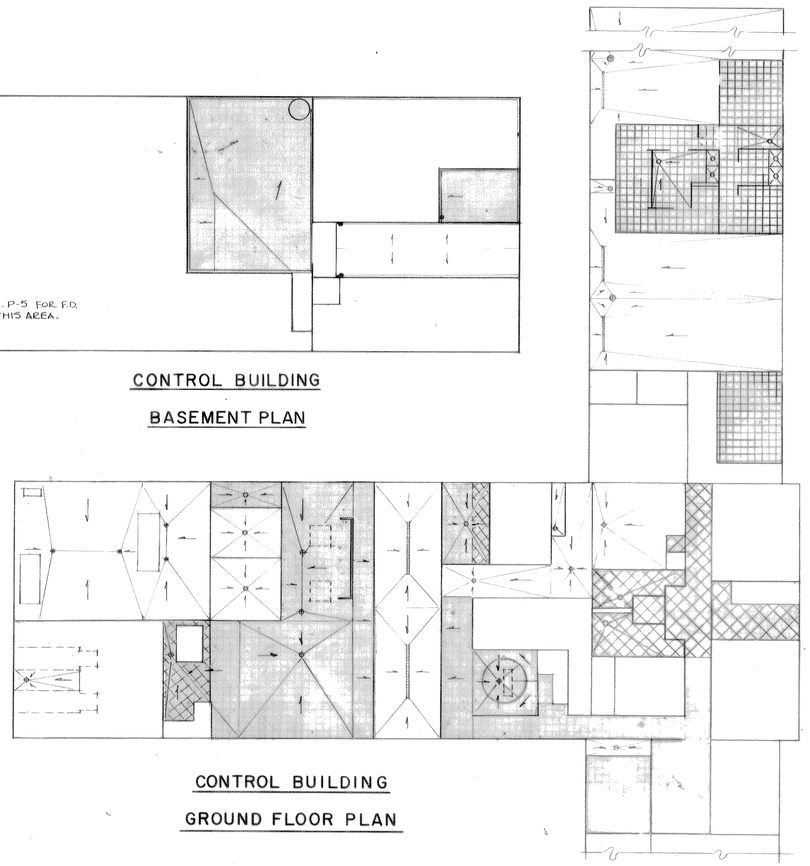
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-46



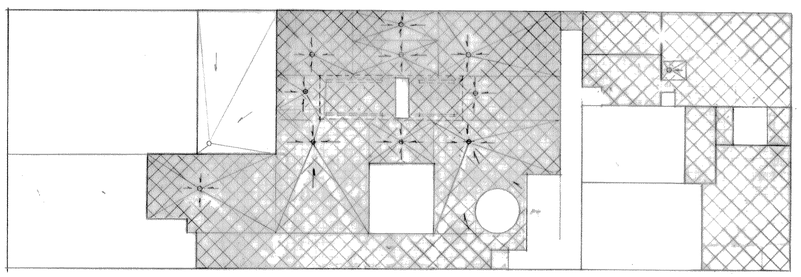
CONTROL BUILDING

BASEMENT PLAN



CONTROL BUILDING

GROUND FLOOR PLAN

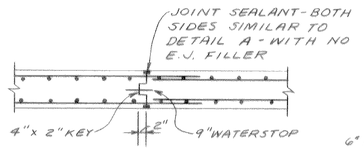


CONTROL BUILDING

SECOND FLOOR PLAN

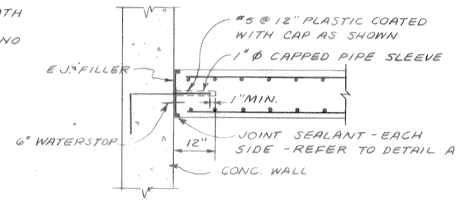
GENERAL NOTES :

1. (▦) INDICATES "THIN-SET" CER. TILE.) CERAMIC TILE APPLIED ON TOP OF NORMAL CONC. FLOOR ELEVATION. THE ¼" THICKNESS IS MADE UP BY THRESHOLDS AT DOORS. NOTE FINISH REQUIREMENTS IN SPEC'S. FOR THIS TYPE OF FLOOR.
2. (▭) INDICATES ¾" DEPRESSION IN SLAB FOR QUARRY TILE.
3. (▨) INDICATES 2" DEPRESSION IN STRUCTURAL SLAB FOR QUARRY TILE OR CERAMIC TILE. (SEE ROOM FINISH SCHEDULE). CLEAVAGE MEMBRANE AND REINF. WIRE MESH REQUIRED. SEE SPECIFICATIONS.
4. FINISHED CONCRETE FLOOR SLABS SHALL SLOPE A MINIMUM OF ¼" PER FOOT TOWARDS FLOOR DRAINS, UNLESS NOTED OTHERWISE. SLOPE ALL TILE FINISHED FLOORS TO DRAINS. WARP SURFACES AS REQUIRED.
5. REFER TO PLUMBING SH'S. P-3, P-4 & P-5 FOR FLOOR DRAIN LOCATIONS. CO-ORDINATE ALL LOCATIONS W/MECH. EQMT. PLACEMENT.



VERTICAL WALL

CONSTRUCTION JOINT



VERTICAL WALL

EXPANSION JOINT

NOTE:
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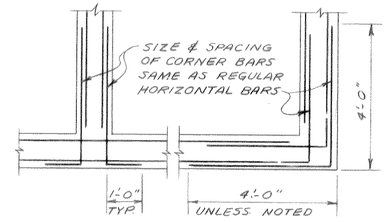
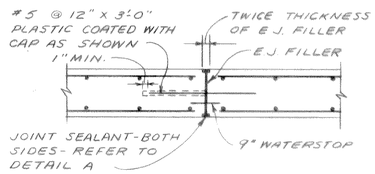
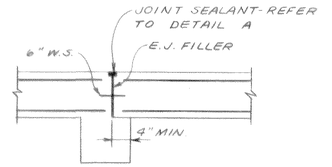


CORNER REINFORCING



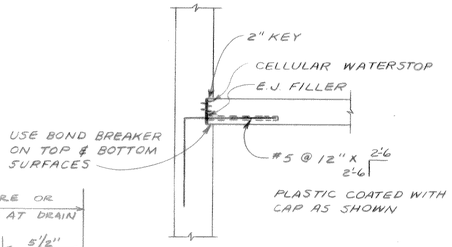
VERTICAL WALL

EXPANSION JOINT



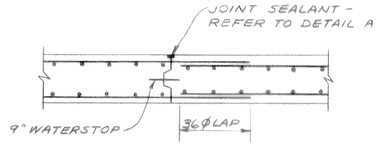
ROOF, FLOOR OR CHANNEL

SLAB EXPANSION JOINT

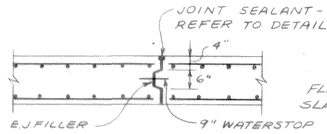


SLAB & WALL CONNECTION

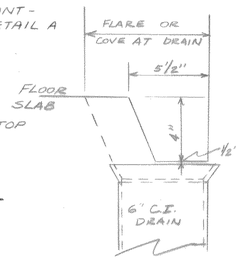
AT EXPANSION JOINT

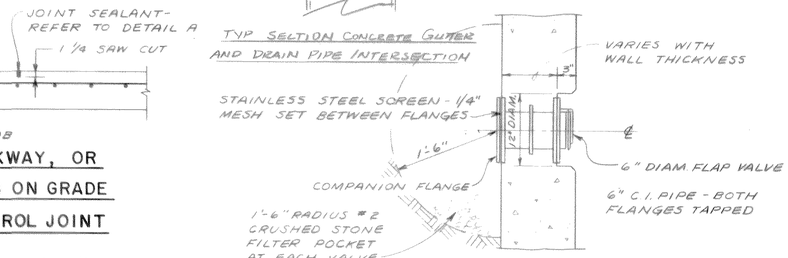


BASE SLAB CONSTRUCTION JOINT



BASE SLAB EXPANSION JOINT



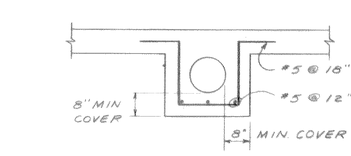


WALKWAY, OR

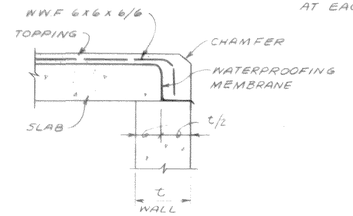
SLAB ON GRADE

CONTROL JOINT

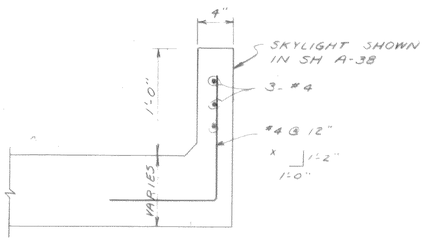
PRESSURE RELIEF VALVE DETAIL



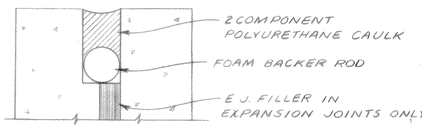
CONCRETE ENCASEMENT FOR PIPES



CONCRETE TOPPING



SKYLIGHT CONCRETE CURB REINFORCING



DETAIL A

FOR REINFORCING STEEL REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 7-8-83 Per FLD

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NO SCALE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				KS	7/8/83
2	APPROVED FOR CONSTRUCTION				S.B	2/24/78
	P.S.	2/5/78	ALT.	ALT.		
1	FOR APPROVALS					
	P.S.	7/20/77	A.L.T.	A.L.T.		

PROJECT SUPERVISOR Arnold R. Alty APPROVED S.B. Bristol

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

TYPICAL STRUCTURAL DETAILS

Stearns & Wheler

CIVIL AND SANITARY ENGINEERS

CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET S-47

178

NOTE:
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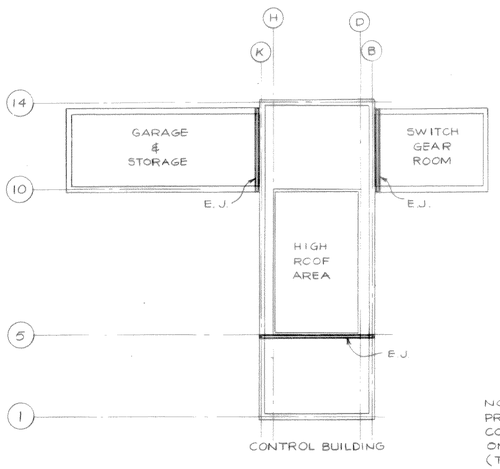
SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS.



PLAN OF CONTROL BUILDING

NO SCALE

TOP PLAN OF PROCESS STRUCTURE

NO SCALE

NOTE: EXPANSION JOINTS SHALL BE PROVIDED THROUGH THE STRUCTURE WITH COMPLETE CONTINUITY WHERE DESIGNATED ON THIS PLAN BY A HEAVY DOUBLE LINE (THUS ═══). THE CONTRACTOR SHALL LOCATE DETAILS OF EXPANSION JOINT ARRANGEMENTS NOT SHOWN ON DRAWINGS. SUCH LOCATIONS MAY BE SUBJECT TO THE ENGINEER'S REVIEW AND APPROVAL.

RECORD DRAWING
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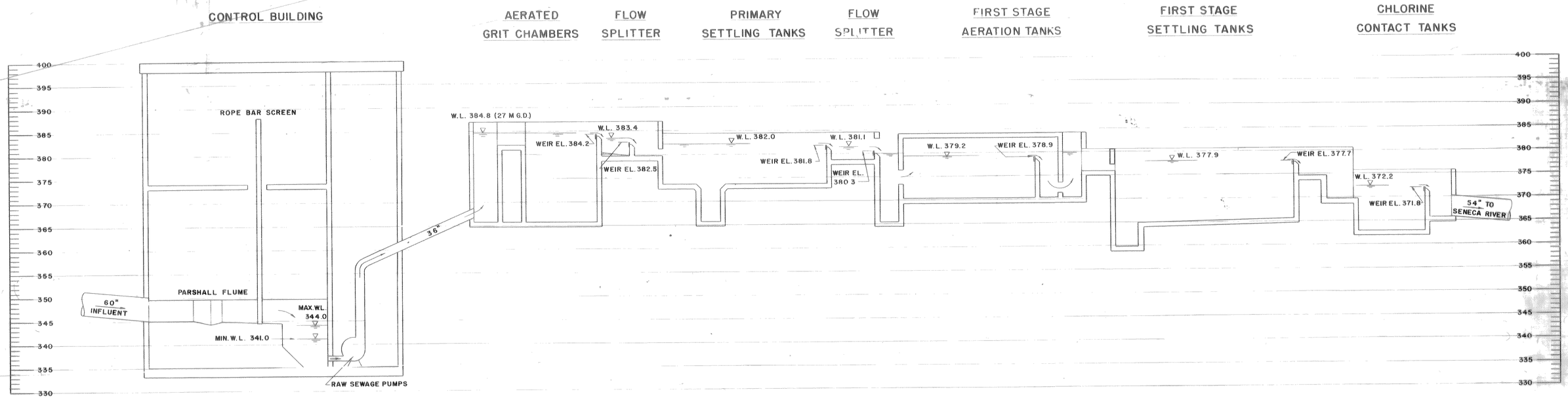
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD				JLS	9/8/83
1	APPROVED FOR CONSTRUCTION				SGB	4/24/78
	PS	3/5/78	ALT	ALT		

PROJECT SUPERVISOR: Arnistad L. Tracy — APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
TOP PLAN

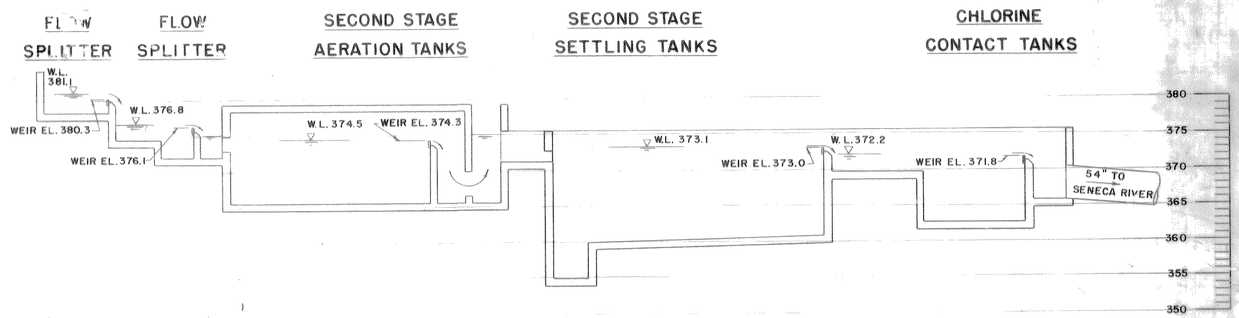
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT

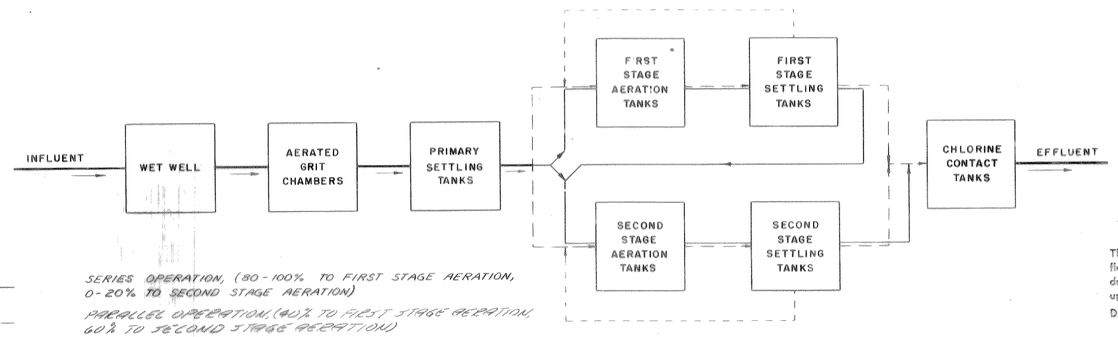
JOB NO. 577 | CONTRACT NO. 1 | SHEET S-48



NOTES:

1. HYDRAULIC PROFILE IS BASED UPON EXPECTED PEAK DESIGN YEAR FLOW OF 18 M.G.D.
2. ALLOWANCES FOR FUTURE PEAK FLOWS OF 27 M.G.D. ARE MADE IN ALL MAIN FLOW CHANNELS AND PIPES.
3. AVERAGE DESIGN YEAR FLOW EQUALS 9 M.G.D.





KEY

——— SERIES OPERATION, (80 - 100% TO FIRST STAGE AERATION, 0 - 20% TO SECOND STAGE AERATION)

– – – – PARALLEL OPERATION, (60% TO FIRST STAGE AERATION, 40% TO SECOND STAGE AERATION)

– – – – – MAXIMUM RECIRCULATION EQUALS 100% OF AVERAGE DESIGN YEAR FLOW.

FLOW SCHEMATIC THROUGH PLANT

RECORD DRAWING

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REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

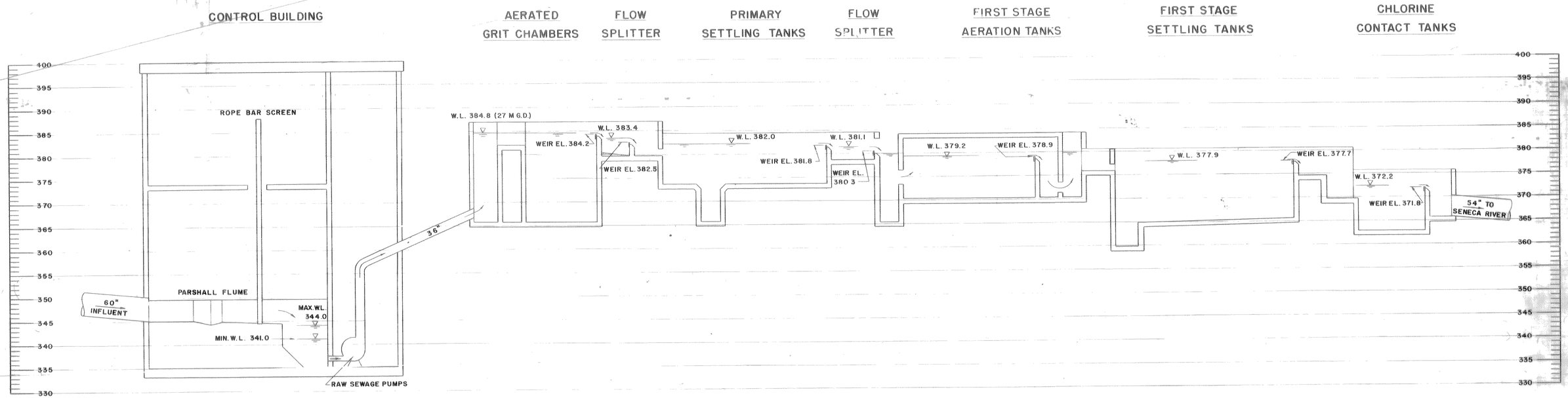
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/16/83
2	FOR CONSTRUCTION G.P.V.	2/19/78	J.L.S.	PKW/AFW	SGB	2-24-78
1	FOR APPROVALS G.P.V.	9-30-76	J.L.S.	PKW/AFW	SGB	9-30-76

PROJECT SUPERVISOR Jack L. Sweeney — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING AND PROCESS STRUCTURE
HYDRAULIC PROFILE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-1



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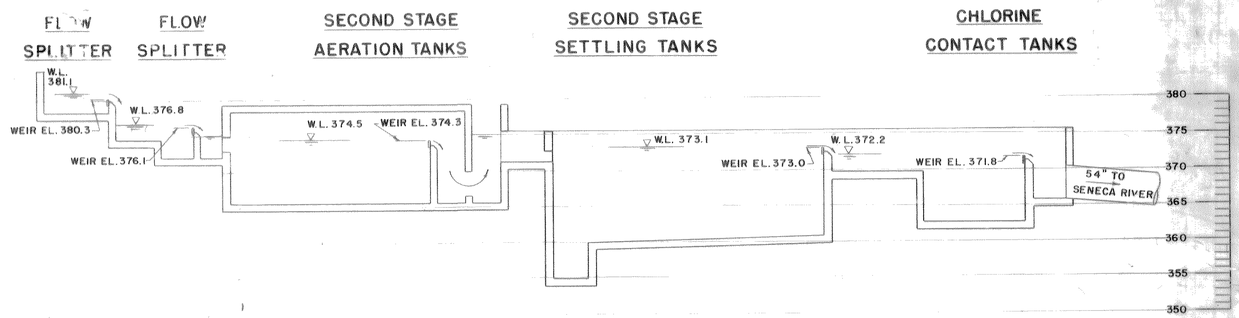

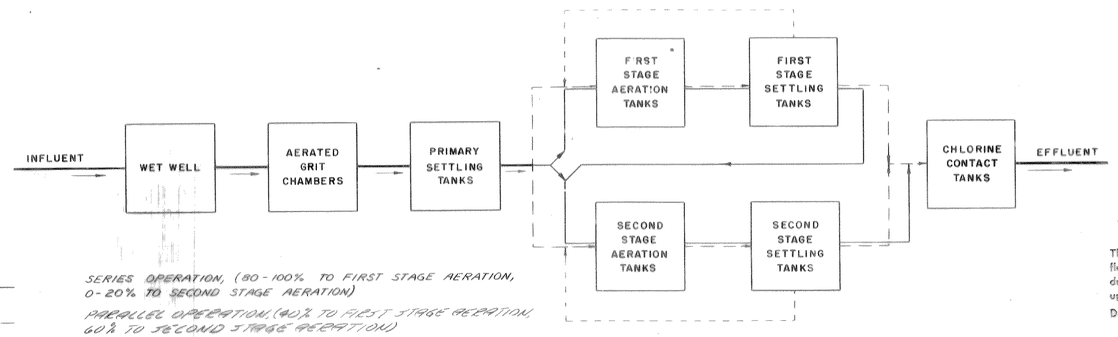

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PROJECT SUPERVISOR Jack L. Sweeney — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING AND PROCESS STRUCTURE
HYDRAULIC PROFILE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-1

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HIGH WATER LEVEL ALARM SET AT ELEV. 343.40
LOW LEVEL ALARM SET AT ELEV. 340.40 MOUNT ALARMS FROM S.S. WALL BRACKET (TYP. EACH WET WELL)
1" HOSE BIB AND RACK
NO GRATING IN THIS AREA
BY-PASS CHANNEL
REMOVABLE SWING GATE
S.G. NO. 4
S.G. NO. 5
NO. 1 ROPE SCREENS NO. 2
BOT. OF CHANNEL EL 344.00 (TYP.)
REMOVABLE HANDRAIL
12"ϕ FLOAT WELLS SEE DETAIL G-3
S.G. NO. 2
S.G. NO. 3
ALUM. FLUSH GRATING S.G. NO. 1
MAIN CLOSED GAS SCREEN FOR DETAILS SEE SH. G-W
INFLUENT ROOM FLOOD ALARM - SET BOTTOM OF ALARM AT ELEV. 349.0 - PROVIDE S.S. FLR. MTG. BRACKET & GRATING CUT OUT.
2" CONNECTION PIPE INV. EL. 348.5
12"ϕ FLOAT WELL SEE DETAIL M-3
EL 349.75
PARSHALL FLUME (PREFORMED LINER)
12"ϕ FLOAT WELL SEE DET SH M-3
CTR. 4
11'9"
60" ϕ R.C.P. INV. EL. 345.0
N 2+34.74 E 7+26.08 INV. EL: 345.0
LOCATE COMBUSTIBLE DETECTOR DIFFUSION HEADS AT EL. 352.0 AND 372.5
WET WELL NO. 2
TYP. 4 HANDRAILS SUPPORTED FROM TOP
EL. 339.0
8'6"x6'0" OPG. (ABOVE)
4"C.I.P.
F.D. BY CTR. NO. 4 (TYP.)
24"x32" FLARE FITTING W/B.F. E 336.75
FUTURE PUMP NO. R.W.W. 4
CABLE TRAY (ABOVE)
8"C.I.P.
CRANK OPERATOR SLUICE GATE NO. 3
FLUSHING RING & SEAL WATER SUPPLY TYP BY CTR. NO. 4
PUMP NO. R.W.W. 3
24"x32" FLARE FITTING E 336.75 (TYP.)
3/4"CU PUMP DRAIN
ELECTROLYTE PIPING
3/8" CU VOLUTE VENTS (TYP.) MIN 3" CLR W/ ϕ
24"x16" REDUCER (1 PER) 16" ϕ W.W. MAIN WHEEL OPERATOR (1 PER)
12"x12" SLEEVE (TYP.)
FUME NO. R.W.W. 2
3/4"CU PUMP DRAIN
3/8" CU VOLUTE VENT
16"C.I.P. (TYP.)
4"ϕ PVC E EL 372.5
INFLUENT ROOM FIN FLR 349.5
WET WELL BELOW
PUMP NO. R.W.W. 1
CONC. PUMP SUPPORTS 3/PUMP (TYP.)
REMOVABLE SWING GATE SEE DETAIL SH G-14 TYP @ EA WET WELL
SLUICE GATE NO. 1 - ELEC. OPERATOR AND TYPE 'E' WALL THIMBLE
1" HOSE BIBB AND RACK
C.I. M.H. STEPS @ 12" O.C.
4"x6" GUTTER
12"x12"x12" DEEP HOSE SUMP (2 REQ'D) ALARMS (SAME AS W.W. NO. 2)
E EL. 358.5
FOR CONTINUATION OF PIPING SEE SH. G-7.
WET WELL NO. 1
11'4" PVC BUBBLER TUBE W/1/4" ORIFICE AT E EL 352.5, SLOPE TO WET WELL
8"C.I.P. E EL 336.0
4'0"
4'3"
1" HOSE BIB & RACK
4"x6" GUTTER
BLIND FLANGE
STAIRWAY
36"ϕ WELDED ST. PIPE EL. 335.00
ELECTROLYTE PIPING
1 1/4" CU. SUPPLY
1 1/4" CU. RETURN
20"ϕ FLANGED ST. PIPE
TYPE 'H' PIPE SUPPORT (8'-3" O.C.)
TYPE 'H' PIPE SUPPORT
20"ϕ FLANGED ST. PIPE
20" GATE VALVE w/ CHAIN WHEEL OPERATOR (TYP.)
PUMP ROOM
FIN FLR 335.0 @ EDGE OF WALLS
1 1/4" CU SUPPLY
1 1/4" CU RETURN
TYPE 'H' PIPE SUPPORT
FC.#28
G.V.
20"ϕ FLANGED ALUM. GRATING
6"ϕ WELDED ST. PIPE E EL. 355.75
TYPE 'H' PIPE SUPPORT
1" HOSE BIB & RACK
TYPE 'H' PIPE SUPPORTS
4"ϕ PVC E EL. 372.0
12"ϕ ST. PIPE THRUST SUPPORT (w/ FLANGED JT.) E EL. 357.0. SEE DETAIL THIS SHEET
AIR BY CTR. NO. 4
H.D. WORK BENCH WITH VICE
5'-0"ϕ x 3'-0" DEEP SUMP w/ 2-PUMPS PUMP NO. S.P. 1 PUMP NO. S.P. 2
SUMP PUMP CONTROL PANEL
M-4

S.S. CABLE RACK (TO BE WALL OR FLOOR MOUNTED AS REQ'D)
GRATING
FIN. FL.
A-FLOOD ALARM
CUT GRATING TO ACCEPT PUMP MOTORS AND CONTROLS (AS REQ'D)
B-HIGH WATER ALARM
C-LAG PUMP-ON
D-LEAD PUMP-ON
E-PUMPS OFF AND CHANGE LEAD
NO SCALE

ELEVATIONS

PUMP NO.	SP 1 & 2	SP 3 & 4	SP 5 & 6	SP 7 & 8	SP 9 & 10	SP 11 & 12
A	335.25	363.25	365.75	365.75	360.00	358.25
B	334.5	361.17	363.67	363.67	358.92	356.17
C	334.00	360.17	362.67	362.67	357.92	355.17
D	333.50	359.17	361.67	361.67	356.92	354.17
E	333.00	358.17	360.67	360.67	355.92	353.17

SUMP PUMPS AND FLOOD ALARM LIQUID LEVEL CONTROL ELEVATIONS

CTR. 1, CTR. 4 TO PRESS. TRANS. IN GEN. ROOM
TO DEPTH SENSOR
CTR. 4
CTR. 1
PLUG
AIR SUPPLY
CRT. 2 TO PT-1A
CTR. 1
ULTRASONIC SENSOR HEAD & S.S. SUPPORT BRACKET
4
SUPPORT FROM FLR. W/ S.S. BRACKETS (TYP.)
T.O.S. EL 349.5
1 - PURGE METER DIFFERENTIAL PRESSURE REGULATOR
2 - PSI GAGE
3 - PRESSURE REGULATOR FILTER, MOISTURE TRAP & DRAIN
1/2"ϕ PURGE SYSTEM FOR PIPING & CTR. LIMITS SEE SH. G-3. (FLOAT WELL DETAIL)
BUBBLER PIPE (1/2"ϕ PVC, SCH. 80)
12" DIAM. FLOAT WELLS (STEEL)
VARIES
2" FROM PF 1
WELD CAP TO PIPE
REMOVE 1/4" PIPE DIAM. = TOP PIPE CUT OUT TO BE EQUAL W/ INV. OF 2" FROM PF 1. (PD-1 & PD-1A)

FLOAT WELL DETAIL

NO SCALE

1" ANGLES
1/8"ϕ TAC THREADED
ANCHOR
12"ϕ ST. PIPE
1/2"

18"ϕ x 1/4" THK. ST. PL WELD TO THRUST SUPPORT
2'6"
BLIND FLANGE
8 HEX NUTS EA. SIDE OF PLATE
WELD
12" ST. PIPE
E 36" ST. PIPE EL. 357.00
6"C.I.P. E EL. 355.75
FC.#28
2" NON-SHRINK GROUT

THRUST SUPPORT DETAIL

NO SCALE

RECORD DRAWING
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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS.

PIPING LEGEND

(1) RAW WASTEWATER
(21) EFFLUENT WATER
(28) DRAIN PIPES
(37) P.V.C. SUMP PUMP DISCHARGE

BASEMENT FLOOR PLAN

SCALE 3/8" = 1'-0"

3/8" = 1'0" 0 1 2 3 4 5 6 7

NOTES:
1. ALL P.V.C. PIPING TO BE SUPPORTED 9'-0" O.C. MAX. (TYP.)
2. ALL AIR SUPPLY PIPING, HOSE BIBS, FLR. DRAINS BY CTR. 4. (TYP.)
3. HOSE RACKS & HOSES BY CTR. 1. (TYP.)
4. SEE PARSHALL FLUME FLOAT WELL FOR REFERENCE:
   (A) WATER PURGE TO FLOAT WELLS
   (B) AIR PURGE WITH BUBBLER FIXTURE TO BUBBLER PIPE
   (C) HYDROSTATIC PIPE TO RECEIVING INSTRUMENT IN GENERATOR RM.
   (D) ULTRASONIC DEPTH SENSOR, PD-1B & PD-1C.
5. SUMP PUMP CONTROL PANEL BY CTR. NO. 1, MOUNTING BY CTR. NO. 2, TYP.

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRIGHAM 31816 OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	REF. FOR CONSTRUCTION				SGB	2-24-78
	GPV/AES	2/24/78	J.L.S.	PKW		
1	FOR APPROVALS				SGB	3-31-76
	GPV/AES	3-30-76	J.L.S.	PKW		

PROJECT SUPERVISOR Joel L. Swanson
APPROVED S.G. Brigham

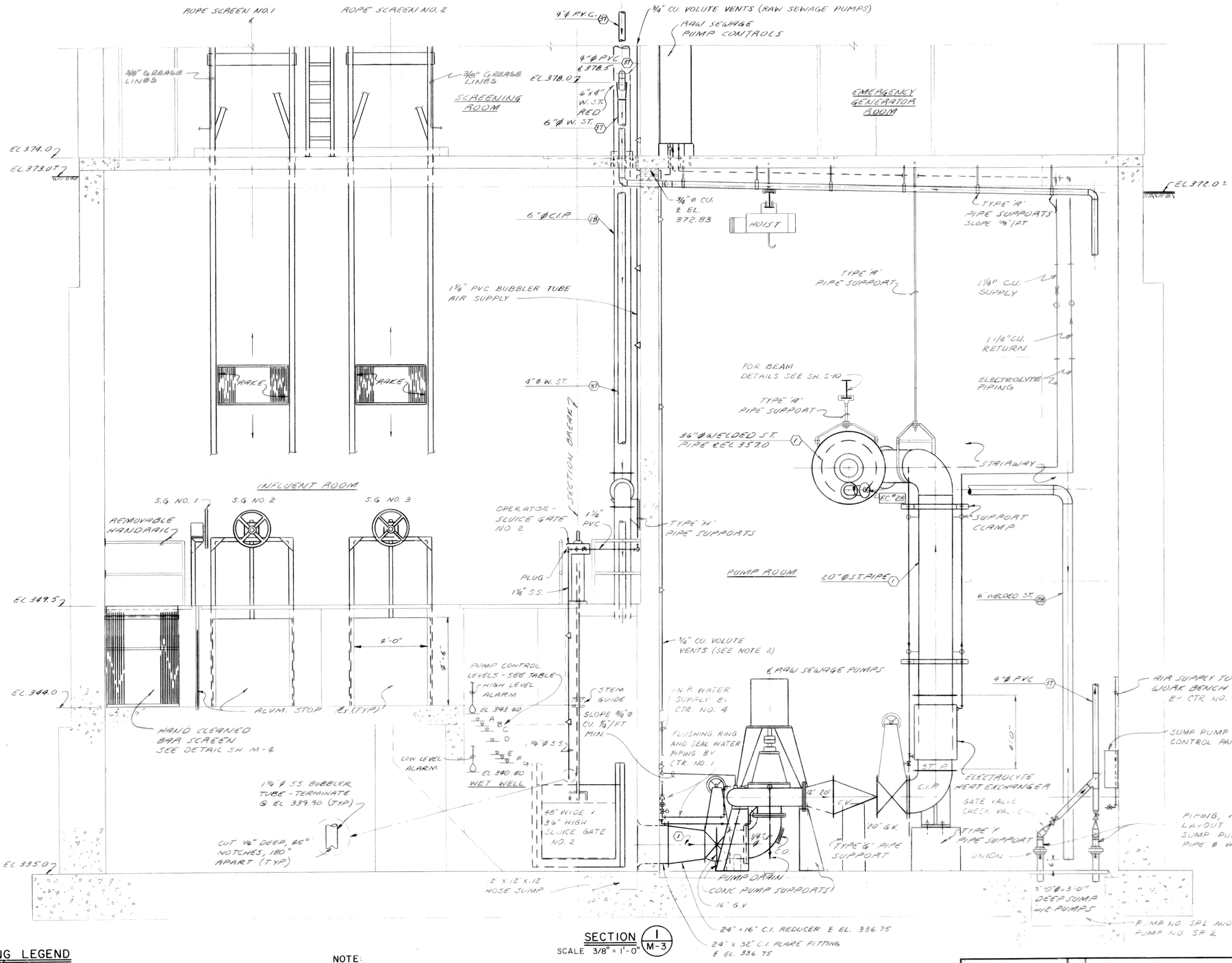
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
INFLUENT & PUMP ROOM - PLAN & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-3

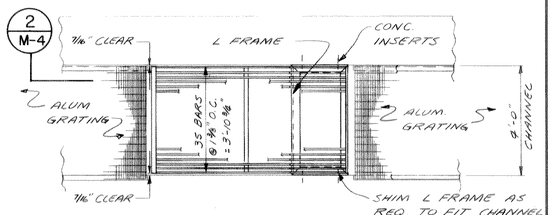
58

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

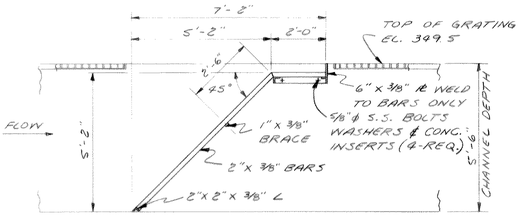


SECTION (1 / M-3)
SCALE 3/8" = 1'-0"

NOTE: PLAN SHOWN WITH HANDRAIL REMOVED



PLAN



SECTION (2 / M-4)

NOTES:

1. MATERIALS: BARS, PLATES, ANGLES - 6061 - T6 ALUM.
2. FINISH, SEE SPEC. SECTION 5B, MISC. METALS.
3. PAINT ALUM. IN CONTACT W/ CONCRETE PER SPEC. SECTION 9A.
4. BAR SCREEN TO BE ALL WELDED CONST. & REMOVABLE FROM CHANNEL.
5. FOR BAR SCREEN LOCATION, SEE SH. M-3.

HAND CLEANED BAR SCREEN DETAILS

SCALE 3/8" = 1'-0"

LEGEND	ELEVATION	FUNCTION
A	343.15	START STANDBY
B	342.90	START LAG
C	342.65	LEAD PUMP MAX. SPEED
D	342.10	START LEAD
E	341.30	STOP STANDBY
F	341.10	STOP LAG
G	340.90	STOP LEAD

RAW WASTEWATER PUMP CONTROLS

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(1) RAW WASTEWATER
(28) DRAIN
(37) SUMP PUMPS DISCHARGE

NOTE:
1. ALL P.V.C. PIPING TO BE SUPPORTED 4'-0" O.C. MAX. (TYP.)
2. ALL 3/4" ø CU. RAW SEWAGE PUMPS VOLUTE VENT LINES TO SLOPE 1/8"/F.T. MIN. IN HORIZONTAL RUNS.

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	JLS FOR CONSTRUCTION				SLB	2-24-78
1	PER RPT 1234/78 FOR APPROVALS		JLS	PRW	SLB	3-31-78
	RKW/LPH	3-30-78	JLS	RKW		

PROJECT SUPERVISOR: J. L. Stearns
APPROVED: S.C. Bristin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
INFLUENT & PUMP ROOM - SECTION & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-4

NOTE:
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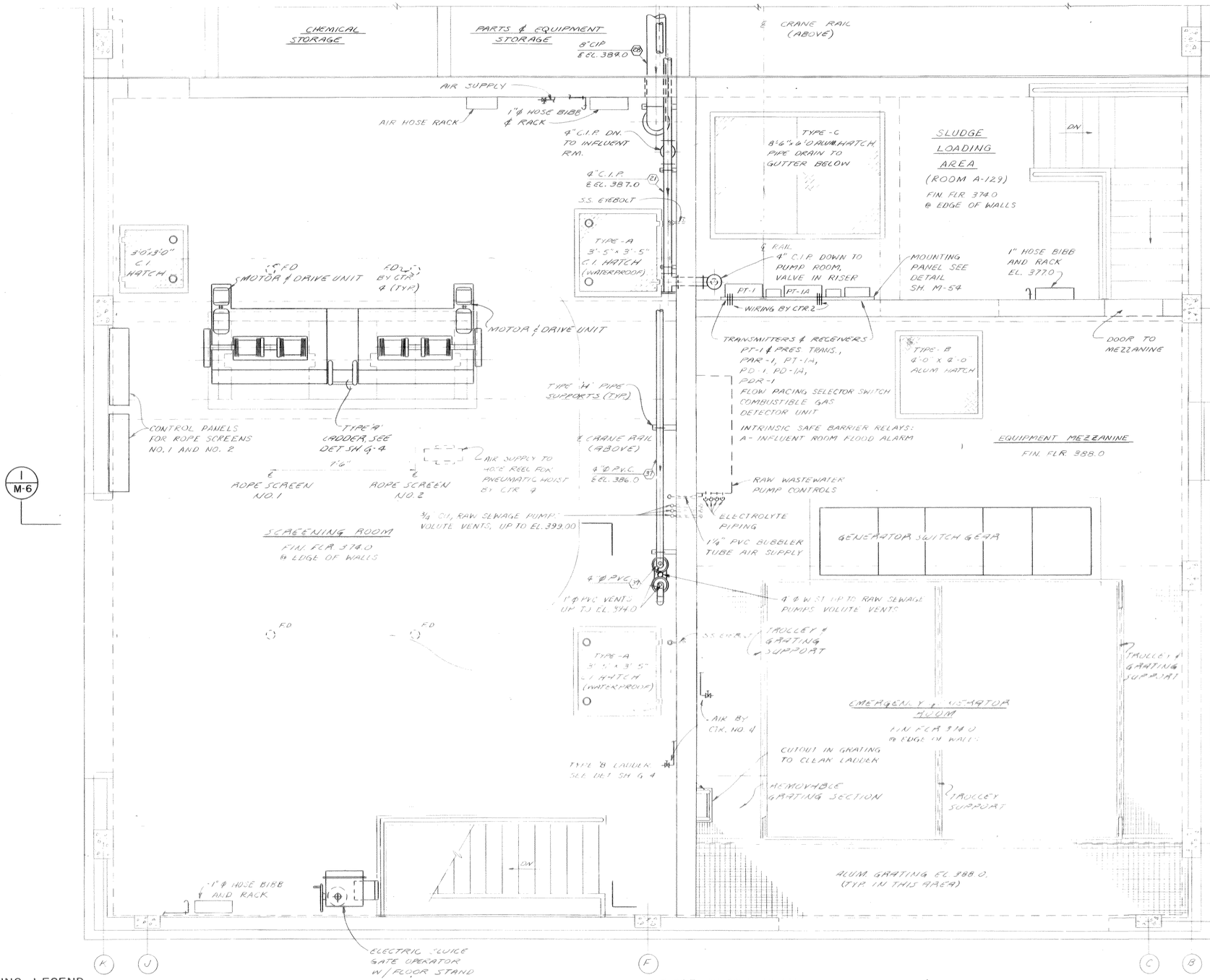

PIPING LEGEND

(21) EFFLUENT WATER
(28) DRAIN PIPES
(37) P.V.C. SUMP PUMP DISCHARGE

FIRST FLOOR PLAN

SCALE 3/8" = 1'-0"

NOTES:

1. ALL P.V.C. PIPING TO BE SUPPORTED 4'-0" O.C. MAX.
2. ALL AIR SUPPLY PIPING, HOSE BIBS, & FLR. DRAINS BY CTR. 4
3. HOSE RACKS & HOSES BY CTR. 1

1" = 1'0" 1 6 0 1 2
1/4" = 1'0" 2 0 2 4 6 8 10
1/2" = 1'0" 1 0 1 2 3 4 5
3/8" = 1'0" 1 0 1 2 3 4 5 6 7

RECORD DRAWING
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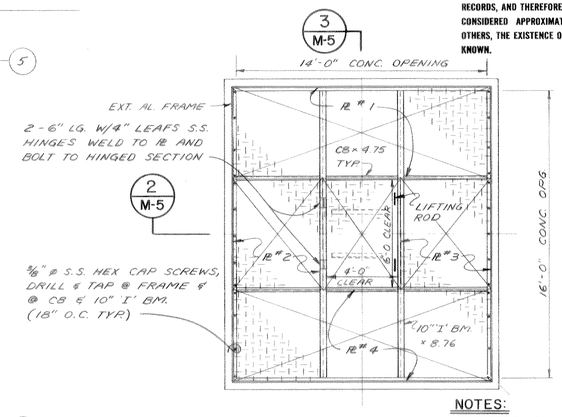
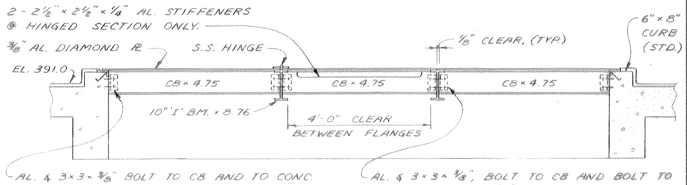


PLAN

SCALE 1/4" = 1'-0"

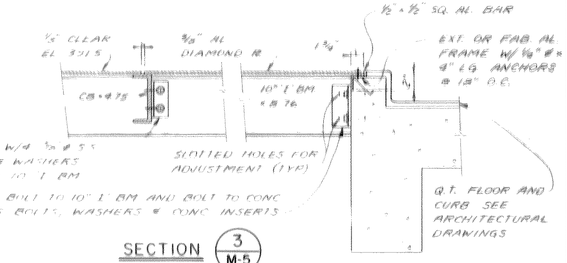
NOTES:

1. MATERIAL: ALUM.-6061-T6
2. FINISH: SEE SPEC. SECT. 5B
3. PAINT ALUM. IN CONTACT W/ CONC. PER SPEC. SECT. 9A
4. MIN. LIVE LOAD DESIGN 300 LBS. PER SQ. FT.



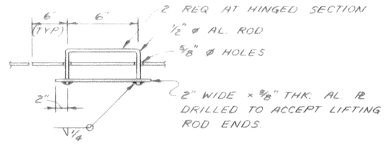
SECTION 2 M-5

SCALE 1" = 1'-0"



SECTION 3 M-5

SCALE 1" = 1'-0"



LIFTING ROD DETAIL

NO SCALE

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ACCESS HATCH DETAILS

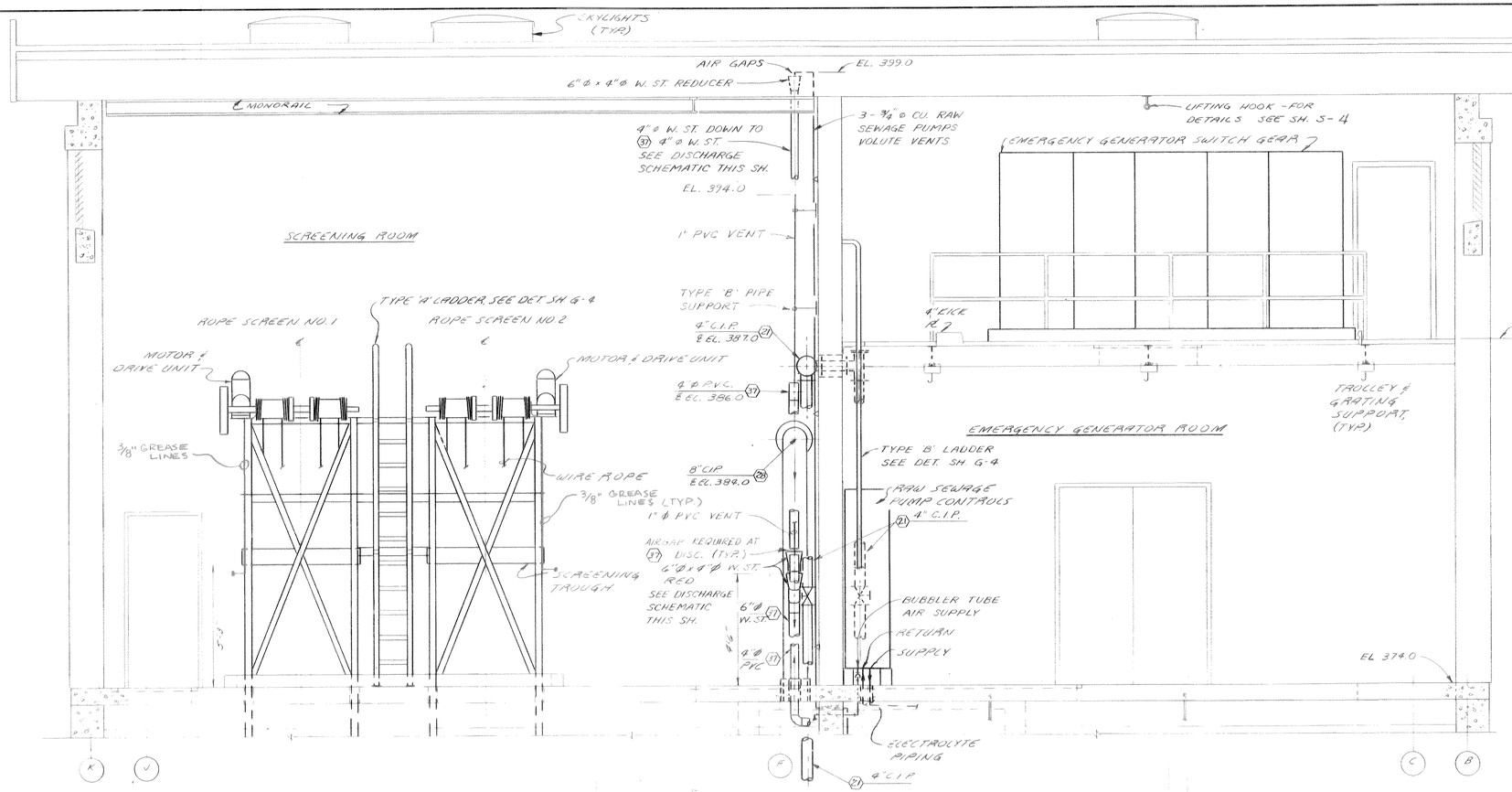
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/8/83
2	FOR CONSTRUCTION GPW/AES	2/24/78	J.L.S.	PKW	SLB	2-24-78
1	FOR APPROVALS GPW/AES	3-30-76	J.L.S.	PKW	SLB	3-31-76

PROJECT SUPERVISOR: Joel L. Swanson
APPROVED: S. C. Briggs

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SCREENINGS & GENERATOR ROOMS - PLAN & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-5



SECTION (1 / M-5)
SCALE 3/8" = 1'-0"

NOTE:
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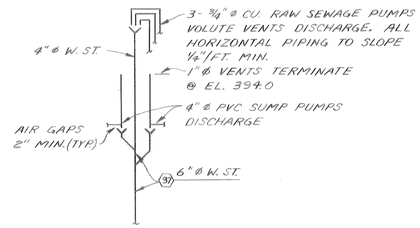
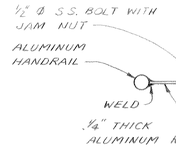
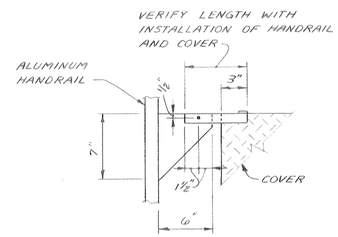


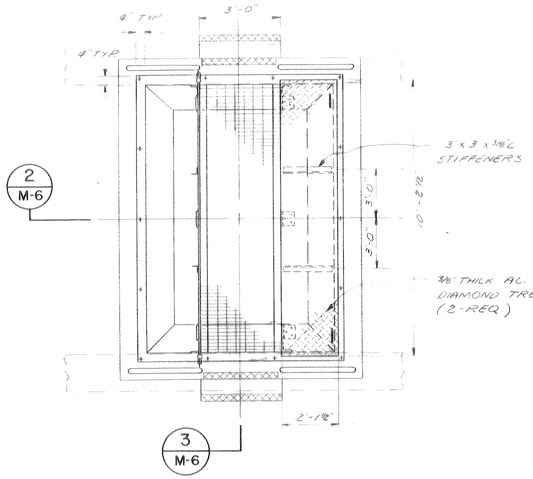
DISCHARGE SCHEMATIC
NO SCALE



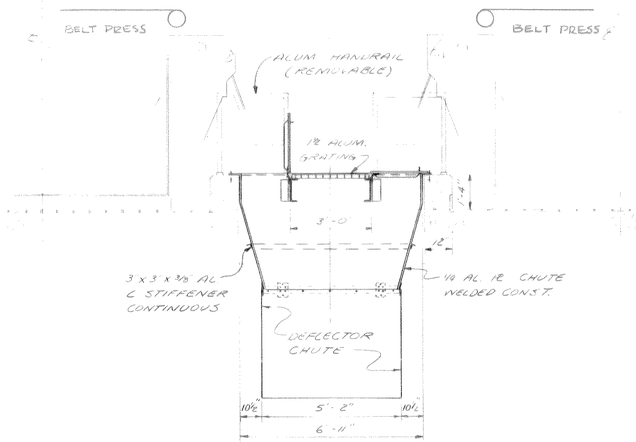
PLAN



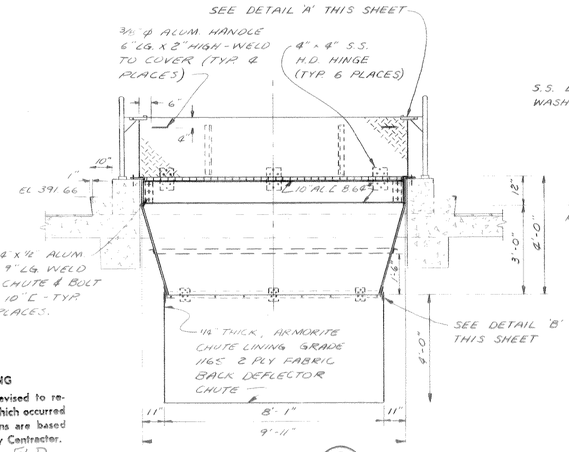
ELEVATION



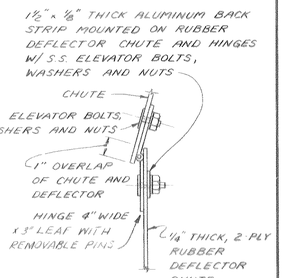
SLUDGE CHUTE DETAIL
SCALE 3/8" = 1'-0"



SECTION (2 / M-6)
SCALE 3/8" = 1'-0"



SECTION (3 / M-6)
SCALE 3/8" = 1'-0"



DETAIL 'B'
NO SCALE

DETAIL 'A'
NO SCALE

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

PIPING LEGEND
(21) EFFLUENT WATER
(28) DRAIN PIPES
(37) SUMP PUMPS DISCHARGE

NOTES:
1. ALL PVC PIPING TO BE SUPPORTED 4'-0" O.C. MAX.
2. PIPE HANGERS & SUPPORTS SHOWN IN PLAN VIEW ONLY.

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				VLS	9/8/83
2	FOR CONSTRUCTION GPV/AES	5/24/78	PKW	PKW	GPV	2-24-78
1	FOR APPROVALS GPV/AES	3-30-76	PKW	PKW	GPV	3-31-76

PROJECT SUPERVISOR: Joel L. Swanson — APPROVED: S.G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SCREENINGS & GENERATOR ROOMS - SECTION & DETAILS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT
JOB NO. 577 | CONTRACT NO. 1 | SHEET M-6

NOTE:
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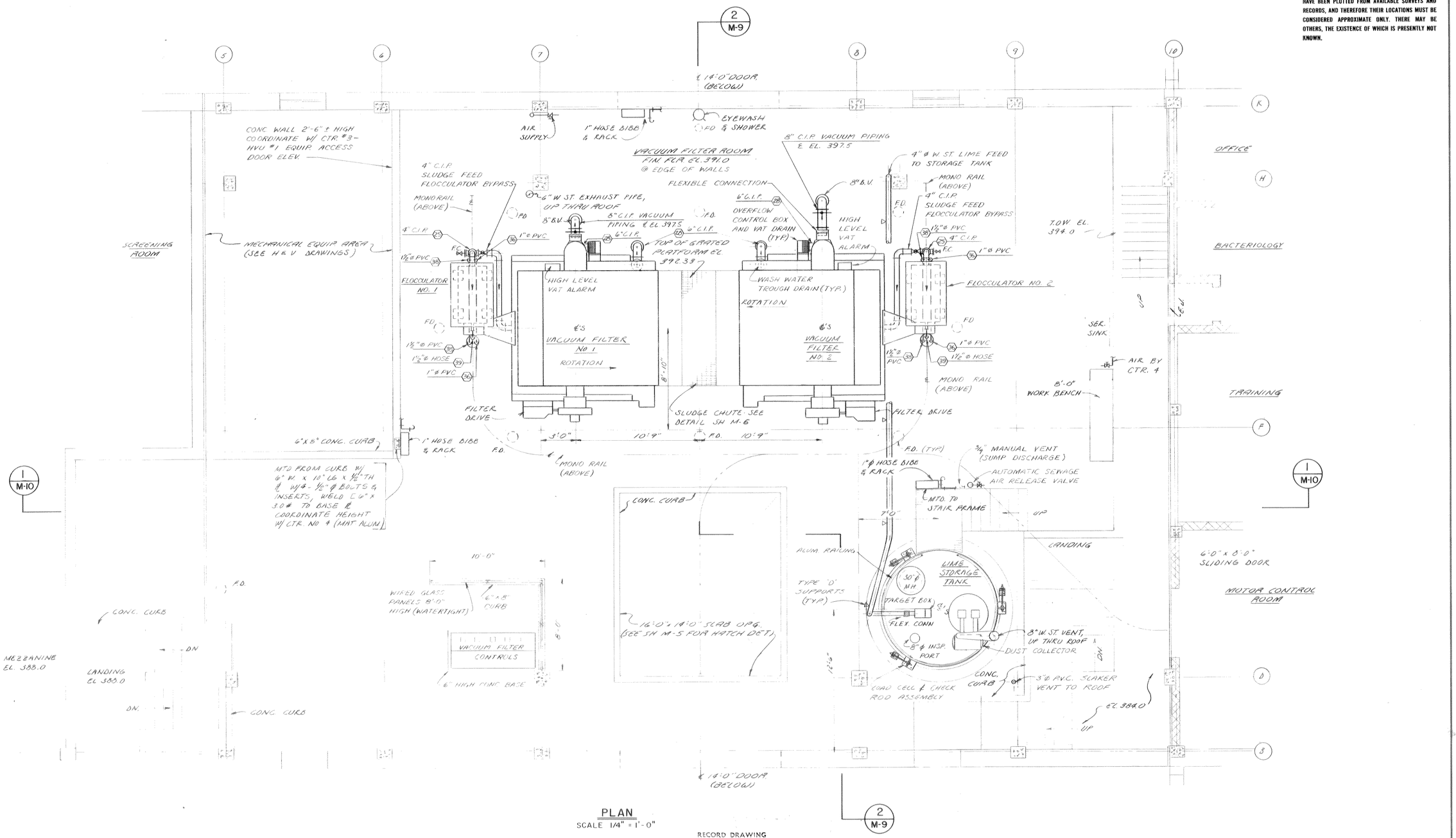

PLAN
SCALE 1/4" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR REVISIONS AT VACUUM FILTERS SEE D.WG. M-7A-BP & M-7B-BP

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(28) DRAIN PIPES
(29) VACUUM FILTER FEED
(36) FERRIC CHLORIDE PIPES
(35) POLYMER SYSTEM PIPES
(39) LIME SYSTEM PIPES

NOTES:

1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX.
2. ALL AIR SUPPLY PIPING, HOSE BIBS, EYE-WASH & SHOWERS, AND FLOOR DRAINS BY CTR. NO. 4.
3. HOSE RACKS & HOSE BY CTR. NO. 1
4. FOR PIPING CLARIFICATION - SEE SCHEMATIC SH. M-11.

¼" = 1'-0" 2 0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JLS	9/8/83
2	FOR CONSTRUCTION L.E.W.	11/24/78	P.K.W.	P.K.W.	S.G.B	12-4-78
1	FOR APPROVALS L.E.W.	3-30-76	P.K.W.	P.K.W.	S.G.B	3-31-76

PROJECT SUPERVISOR John T. Lawrence
APPROVED S. G. Brigham

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
VACUUM FILTER AREA - PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-7

NOTE:
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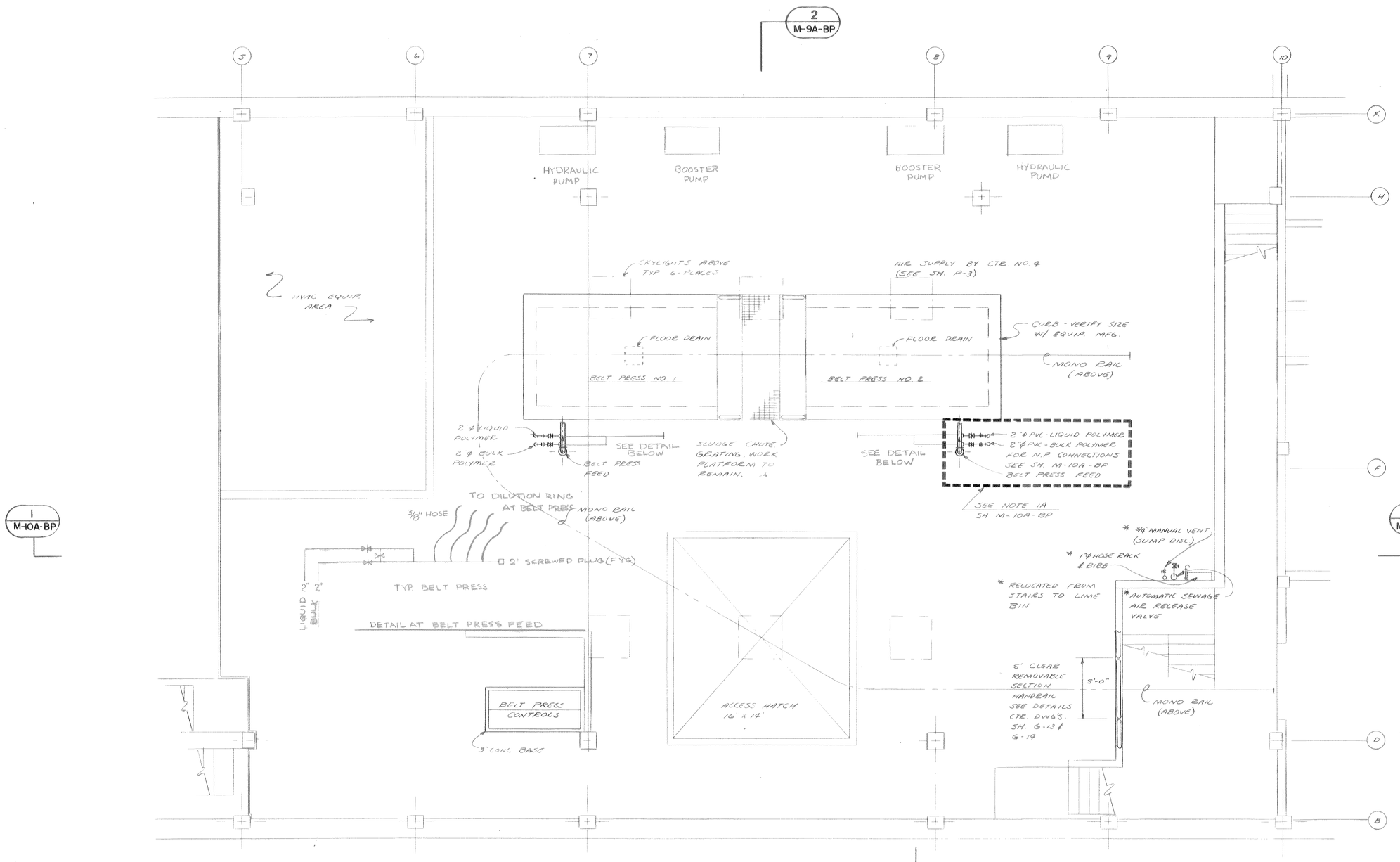

PLAN
SCALE 1/4" = 1'-0"

1/4" = 1'-0" 2 0 2 4 6 8 10

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

NOTES
1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX.
2. ALL CI OR DI PIPE TO BE SUPPORTED @ 10'-0" O.C. MAX.
3. PIPE HANGERS & SUPPORTS NOT SHOWN - COORDINATE W/ SPECIFICATIONS & G-2.
4. ALL AIR SUPPLY PIPING, HOSE BIBBS, EYE-WASH & SHOWERS TO REMAIN AS LOCATED.
5. HOSE RACKS & HOSES BY CTR. NO. 1
6. SLOPE ALL CHEMICAL FEED LINES TO LOW POINT @ TANK & PUMPS FOR DRAINAGE.

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JLS	9/8/83
2	ADDED MONO RAIL		REV. POL. PIPING SIZE		JLS	11/29/79
	PKW	11.29.79	DSH	PKW		
1	PRELIMINARY FOR PROPOSAL PC 60				JLS	4/15/79
	PKW	4/15/79	DSH	PKW		

PROJECT SUPERVISOR: Daniel O. Hayes — APPROVED: Joel Swenson

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BELT PRESS AREA - PLAN
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT
JOB NO. 577/889 | CONTRACT NO. 1 | SHEET M-7A-BP

NOTE:
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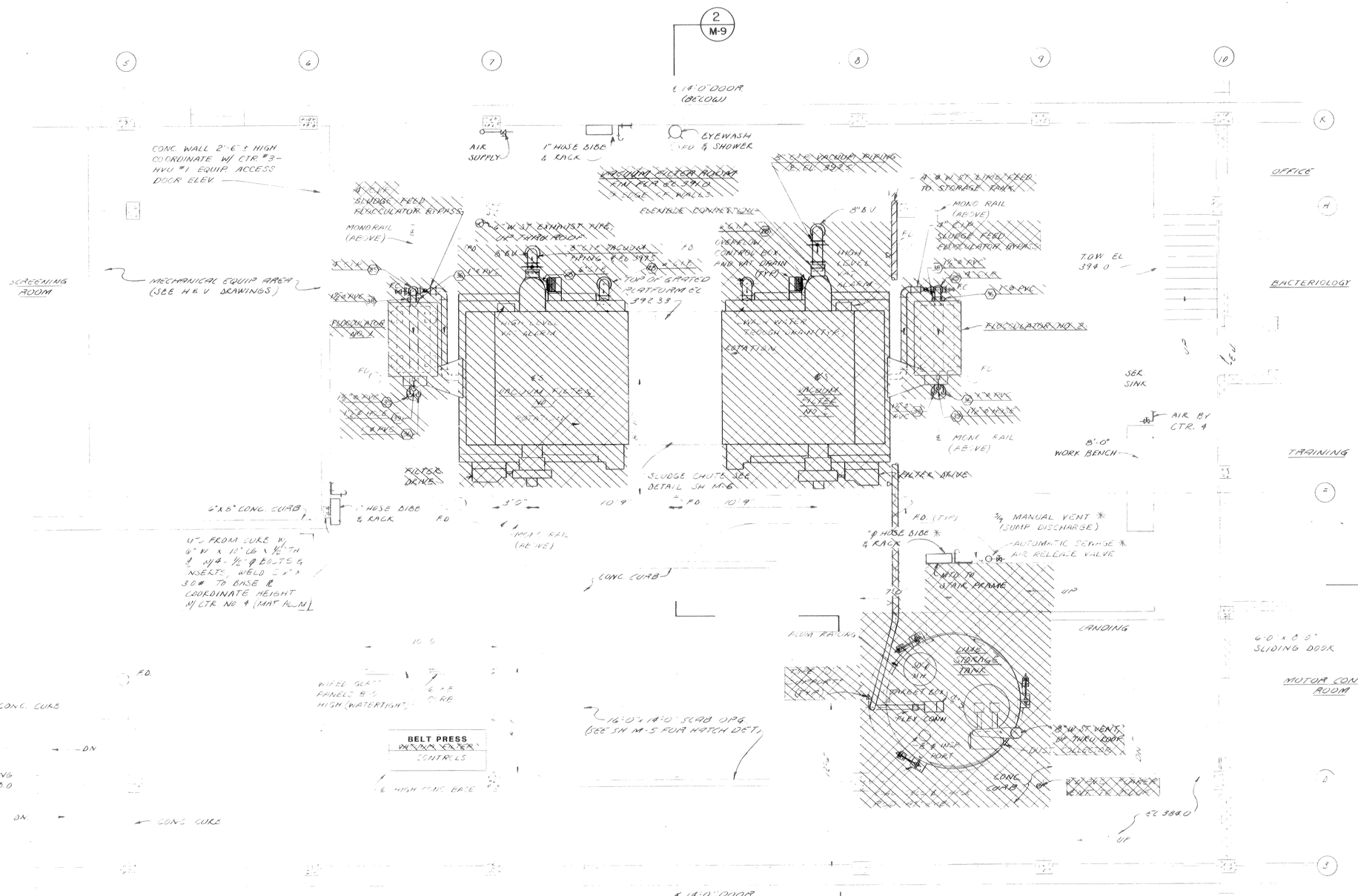

PLAN
SCALE 1/4" = 1'-0"

2 M-9

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

PIPING LEGEND

(2A) DRAIN PIPES
(2S) BELT PRESS SLUDGE FEED
(4S) RECIRC. SLUDGE FEED
(8V) VACUUM SYSTEM PIPES
(30) LIME SYSTEM PIPES

NOTES:

1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX
2. ALL AIR SUPPLY PIPING, HOSE BIBS, EYE-WASH & SHOWERS, AND FLOOR DRAINS BY CTR NO 4.
3. HOSE RACKS & HOSE BY CTR NO. 1

* TO BE RELOCATED. SEE SH. M-7A-BP

1/4" = 1'-0" 2 0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD				KS	9/8/83
1	PRELIMINARY FOR PROPOSAL REVIEW				JLS	11/8/82
	AES	6-15-82	DTH	PRW		

PROJECT SUPERVISOR: Jack T. Swanson
APPROVED: S. G. Brigden

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BELT PRESS AREA - PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-7B-BP

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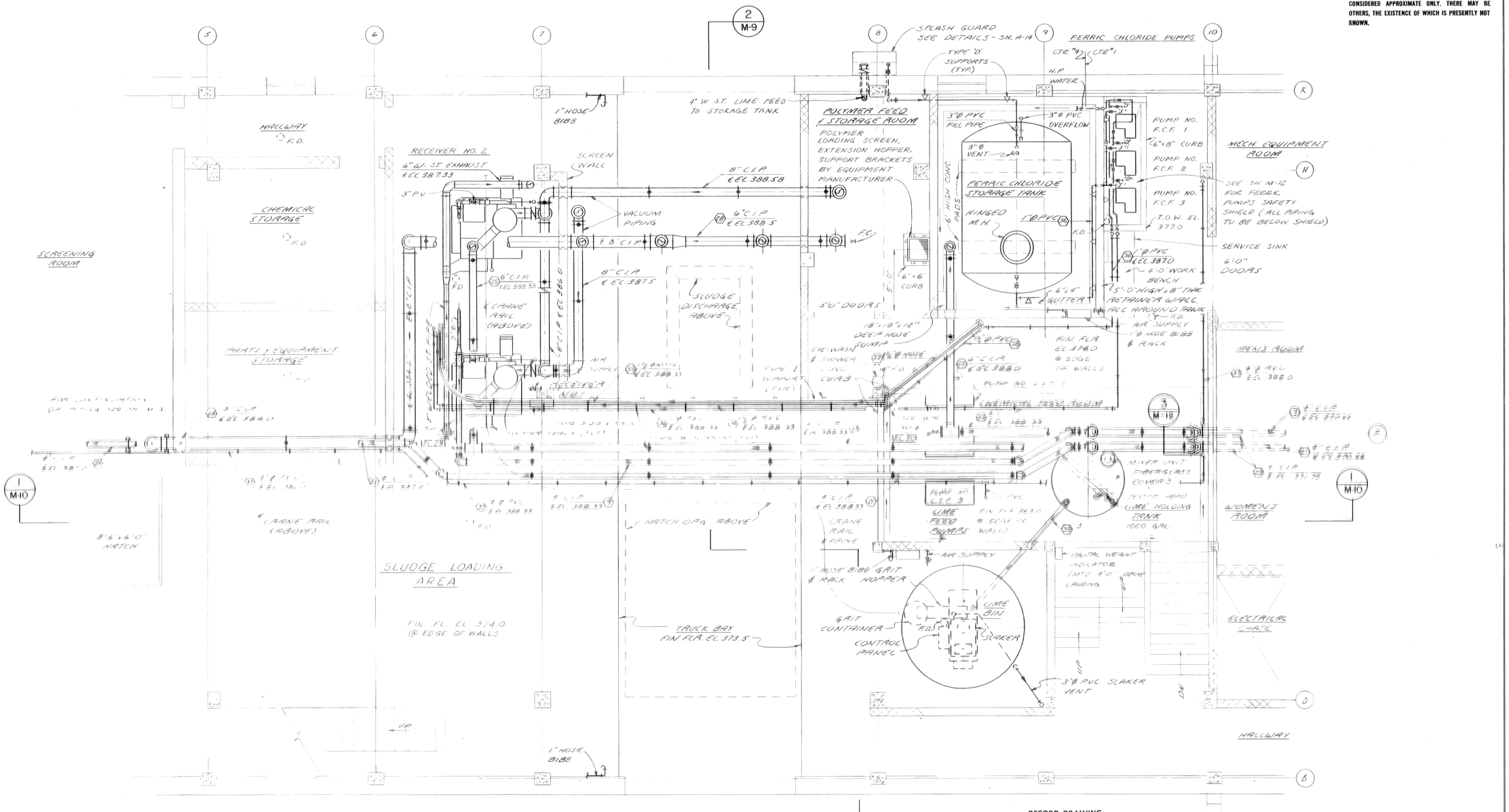


PLAN
SCALE 1/4" = 1'-0"

2 M-9

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR REVISIONS AT VACUUM FILTERS, SEE DWG. M-88-BP.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND
- (5) DIGESTED SLUDGE
- (9) VACUUM FILTRATE
- (21) EFFLUENT WATER
- (25) VACUUM FILTER FEED
- (28) DRAIN PIPES
- (36) FERRIC CHLORIDE
- (37) P.V.C. SUMP PUMP DISCHARGE
- (38) POLYMER SYSTEM PIPES
- (39) LIME SYSTEM PIPES

NOTES:
1. ALL PVC PIPING TO BE SUPPORTED 4'-0" C.C. MAX.
2. FOR PIPING CLARIFICATION - SEE SCHEMATIC SH. M-11.
3. PIPE HANGERS & SUPPORTS SHOWN IN PLAN VIEW ONLY.
4. SLOPE ALL CHEMICAL FEED LINES - (39), (38) TO LOW POINT, & (36) TO PUMPS.

1/4" = 1'0" 2 0 2 4 6 8 10

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JLS	9/8/83
2	FOR CONSTRUCTION L.E.W.	8/24/78	P.K.W.	P.K.W.	S.G.B.	8-24-78
1	FOR APPROVALS L.E.W.	3-30-76	P.K.W.	P.K.W.	S.G.B.	3-31-76

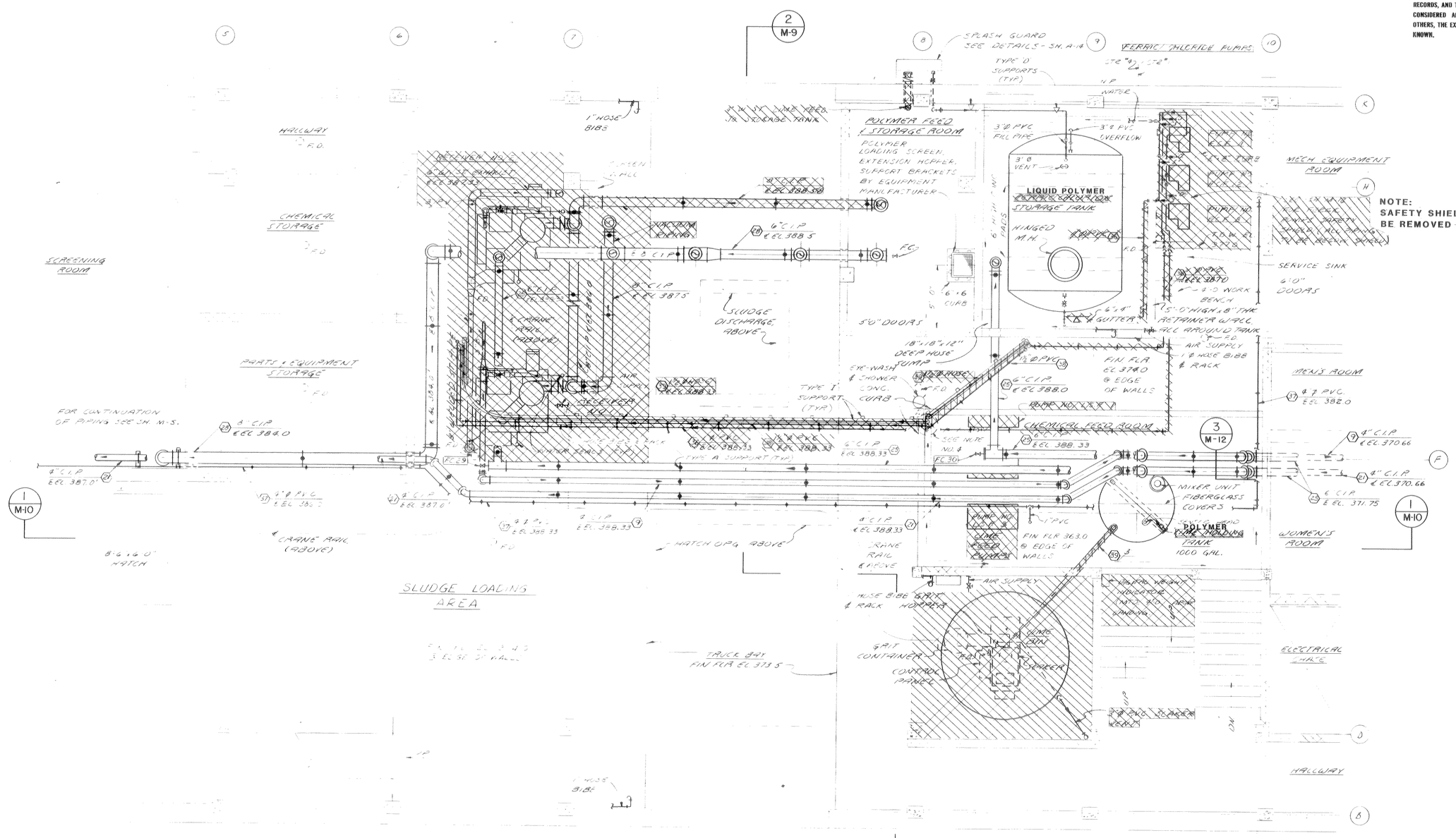
PROJECT SUPERVISOR J. L. Stevenson APPROVED S. G. Bimbim

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SLUDGE LOADING AREA - PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-8

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



NOTE:
SAFETY SHIELD TO BE REMOVED ON SH.-12

PLAN
SCALE 1/4" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

- (2) WASTED SLUDGE
- (9) BELT PRESS RECOVERED FILTRATE
- (21) BELT PRESS SCREENED WATER
- (23) WASTED EXCESS POLYMER FEED
- (28) DRAIN PIPES
- (36) VERTICAL TURBINE PUMPS
- (37) PVC SUMP PUMP DISCHARGE
- (38) POLYMER SYSTEM PUMPS
- (39) MIXER WATER PIPES

NOTES:
1. ALL PVC PIPING TO BE SUPPORTED @ 5'-0" C.C. MAX.
2. FOR PIPING IDENTIFICATION - SEE SCHEMATIC SH. M-11.
3. PIPE HANGERS & SUPPORTS SHOWN IN PLAN VIEW ONLY.
4. SLOPE ALL CHEMICAL FEED LINES - (37) (38) TO LOW POINT, & (36) TO PUMPS.

1/4" = 1'-0" 2 0 2 4 6 8 10

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD KLS				JLS	9/8/83
1	PRELIMINARY FOR REVIEW AEJ	4-15-83	DJH	PRW	JLS	11/15/82

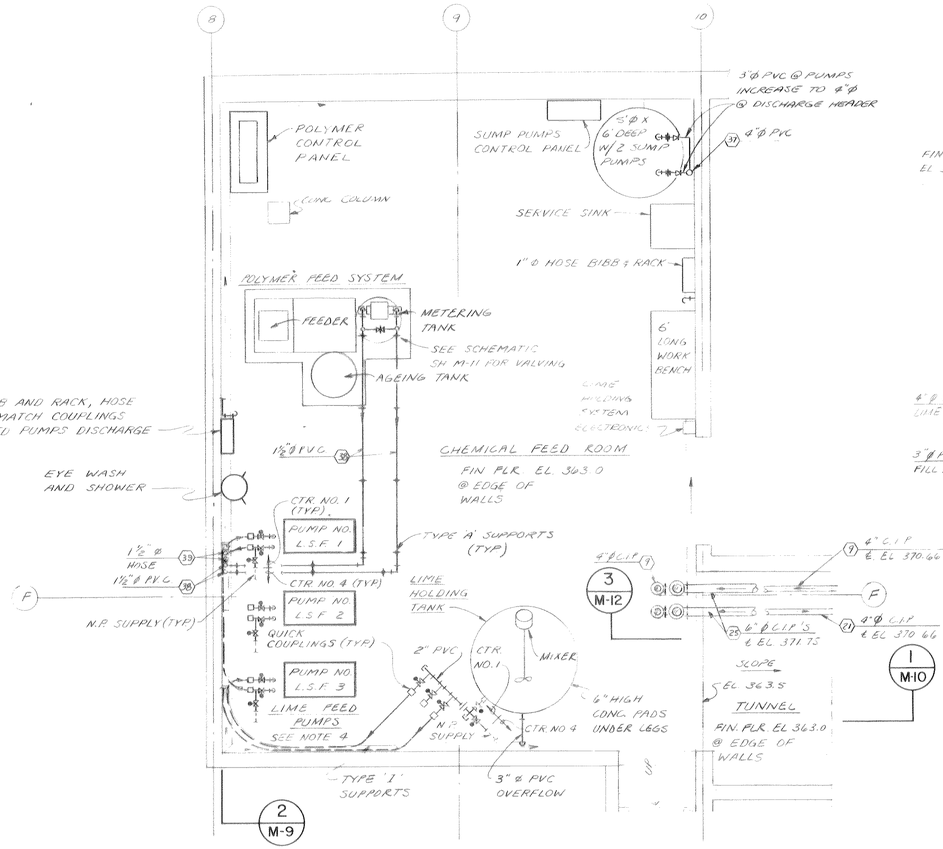
PROJECT SUPERVISOR: Joel L. Sussman
APPROVED: S. G. Birnbrich

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SLUDGE LOADING AREA - PLAN

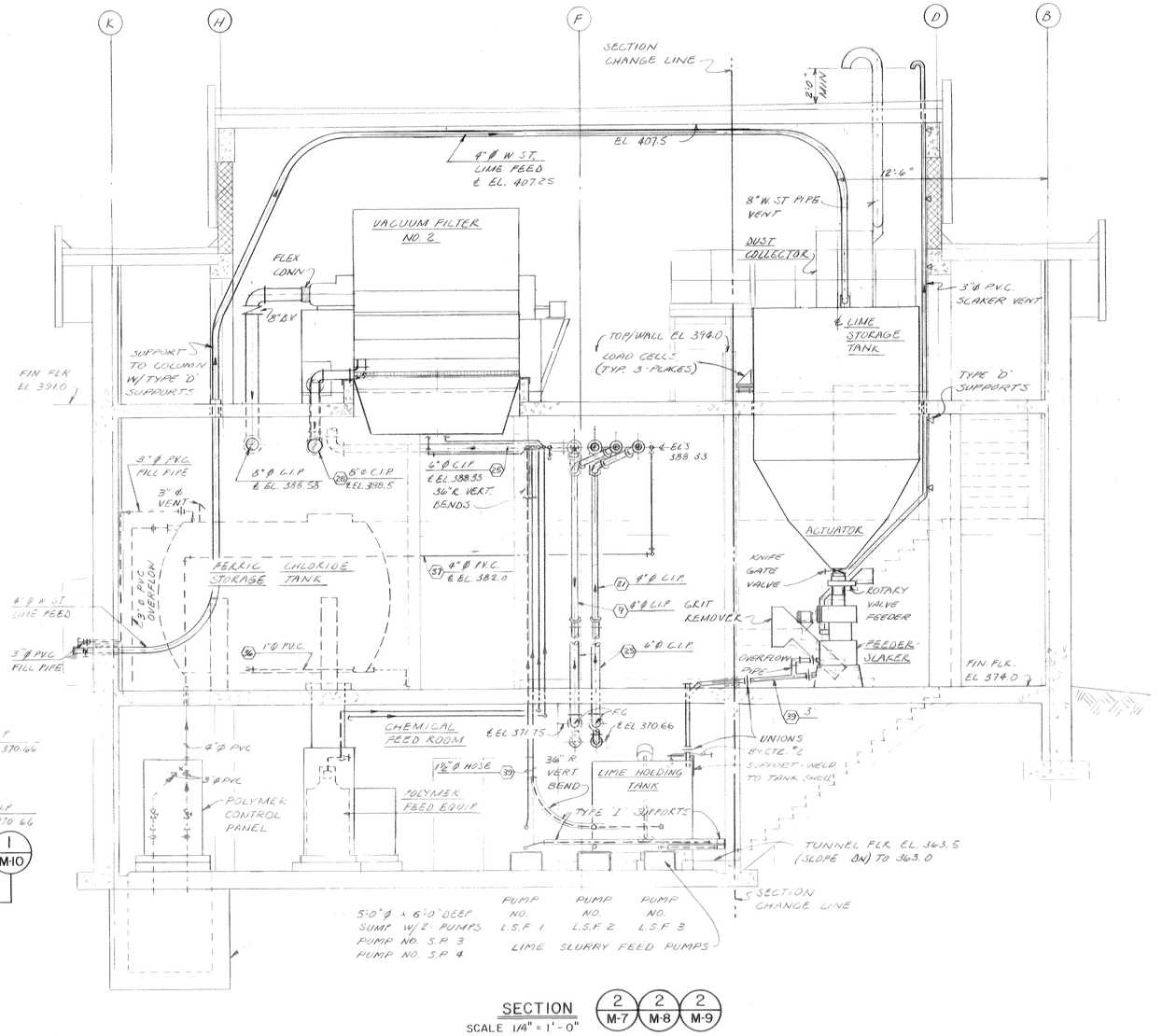
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-8B-BP

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN
SCALE 1/4" = 1'-0"



SECTION
SCALE 1/4" = 1'-0"
2 M-7 | 2 M-8 | 2 M-9

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR REVISIONS AT VACUUM FILTERS SEE DWGS. M-9A-BP & M-9B-BP.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(7) VACUUM FILTRATE
(21) EFFLUENT WATER
(25) VACUUM FILTER FEED
(28) DRAIN PIPES
(34) FERRIC CHLORIDE PIPES
(37) 4" P.V.C. SUMP PUMP DISCHARGE
(22) POLYMER SYSTEM PIPES
(39) LIME SYSTEM PIPES

NOTES:

1. ALL P.V.C. PIPING TO BE SUPPORTED 4'-0" O.C. MAX.
2. FOR PIPING CLARIFICATION - SEE SCHEMATIC SH. M-11.
3. PIPE HANGERS & SUPPORTS SHOWN IN PLAN VIEW ONLY.
4. IN LIME FEED PUMP AREA, SUCTION AND DISCHARGE HOSE LENGTHS SHALL BE INTERCHANGABLE WITH ALL 3 PUMPS

¼" = 1'-0" 2 0 2 4 6 8 10

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

LICENSED PROFESSIONAL ENGINEER STERLING G. BRUSH 31810 STATE OF NEW YORK

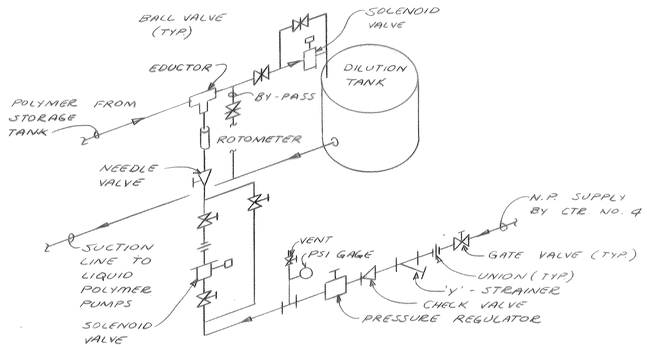
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JLS	9/8/83
2	FOR CONSTRUCTION LEW/RES 12/4/78		PKW	PKW	SGB	2-24-78
1	FOR APPROVALS LEW/MES 3-30-76		R.K.W.	R.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Greene
APPROVED S.G. Brush

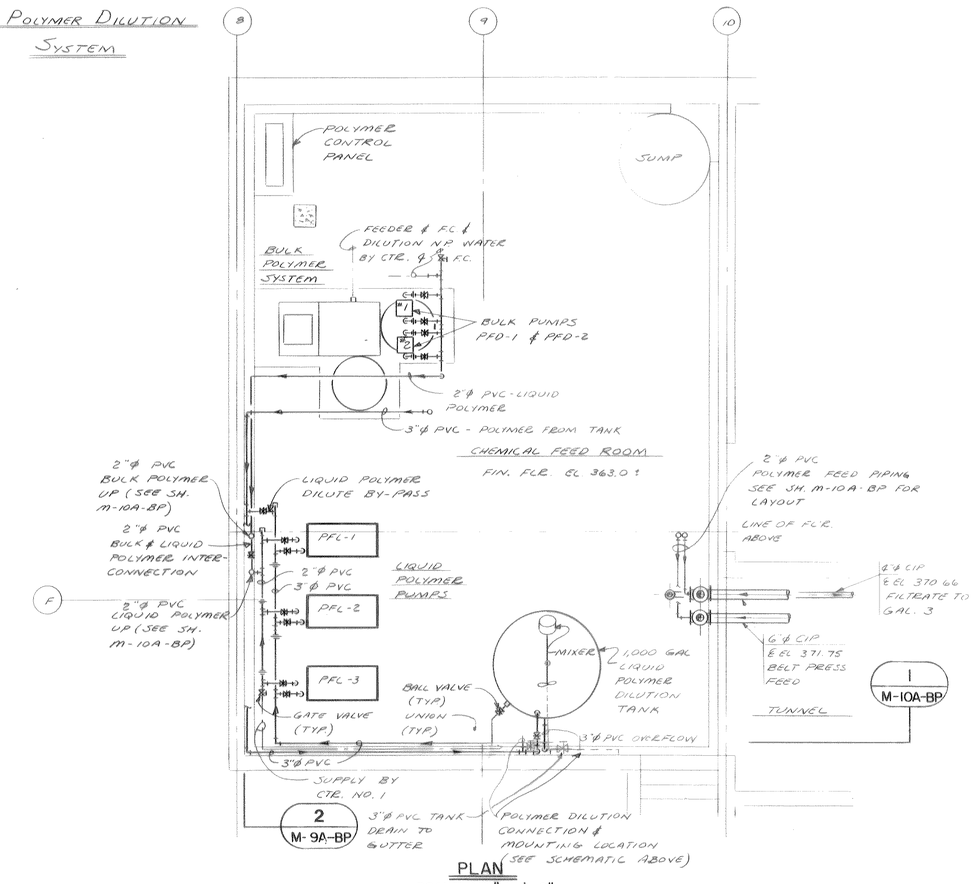
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
VACUUM FILTER & SLUDGE LOADING AREAS
PLAN & SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

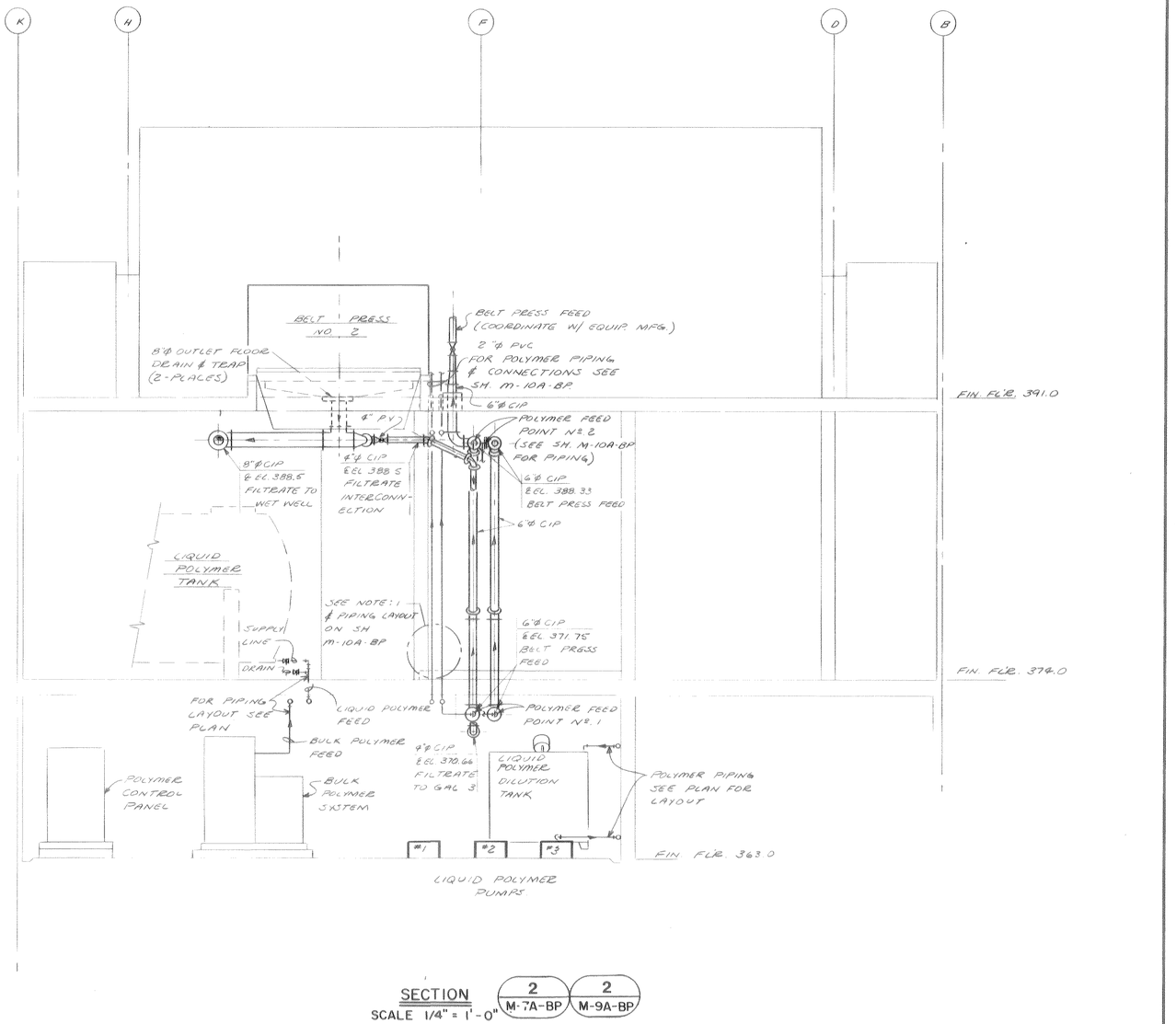
JOB NO. 577 CONTRACT NO. 1 SHEET M-9



POLYMER DILUTION SYSTEM



PLAN
SCALE 1/4" = 1'-0"



SECTION
SCALE 1/4" = 1'-0"
2 M-7A-BP / 2 M-9A-BP

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

1/4" = 1'0" 2 0 2 4 6 8 10

NOTES
1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX.
2. ALL CI OR DI PIPE TO BE SUPPORTED @ 10'-0" O.C. MAX.
3. PIPE HANGERS & SUPPORTS NOT SHOWN - COORDINATE W/ SPECIFICATIONS & G-2.
4. ALL AIR SUPPLY PIPING, HOSE BIBBS, EYE-WASH & SHOWERS TO REMAIN AS LOCATED.
5. HOSE RACKS & HOSES BY CTR. NO. 1
6. SLOPE ALL CHEMICAL FEED LINES TO LOW POINT @ TANK & PUMPS FOR DRAINAGE.

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ISSUE NO.	DRAWN	DATE	CHECKED	DATE	DESIGNER	APPROVED	DATE
3	RECORD REF					JKS	9/8/83
2	REV. POL. PIPING SIZE					JKS	11/09/79
	PKW	11-29-79	DJM		PKW		
1	PRELIMINARY FOR PROPOSAL PC-60					JKS	11/15/79
	PKW	11-15-79	DJM		PKW		

PROJECT SUPERVISOR: Donald Hazlitt
APPROVED: Joel Swanson

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BELT PRESS & SLUDGE LOADING AREAS
PLAN & SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT

JOB NO. 577/889 | CONTRACT NO. 1 | SHEET M-9A-BP

NOTE:
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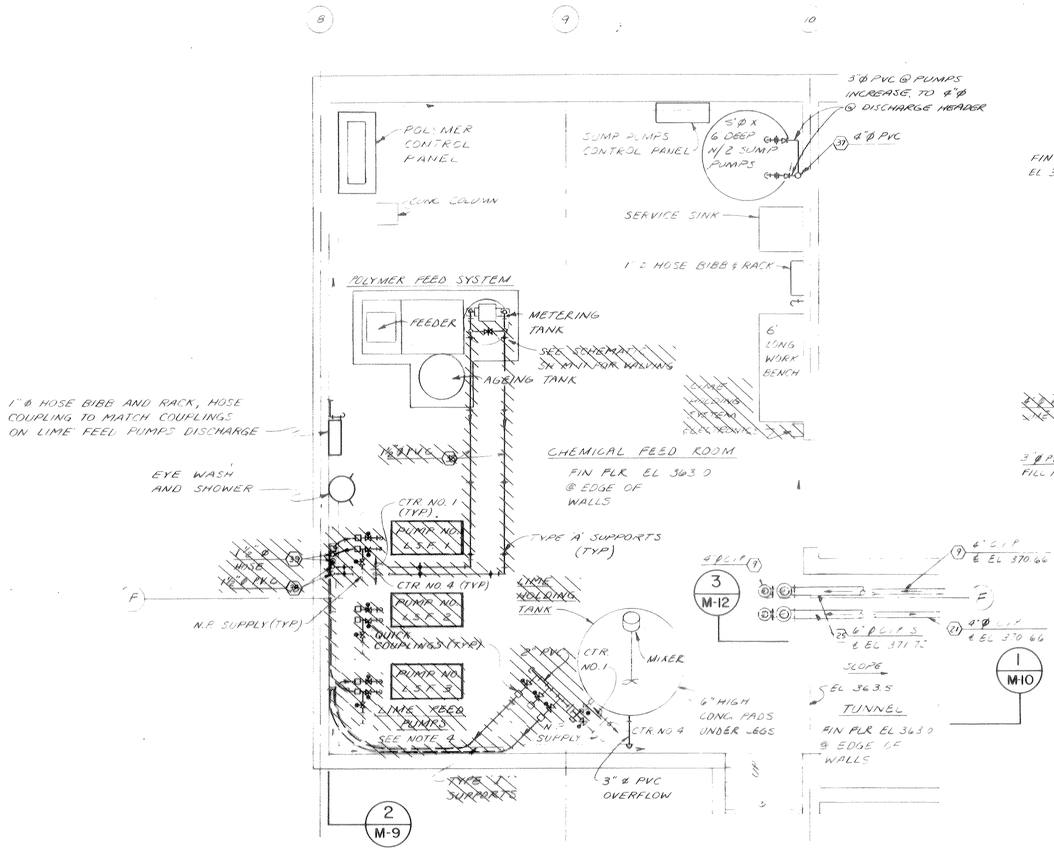
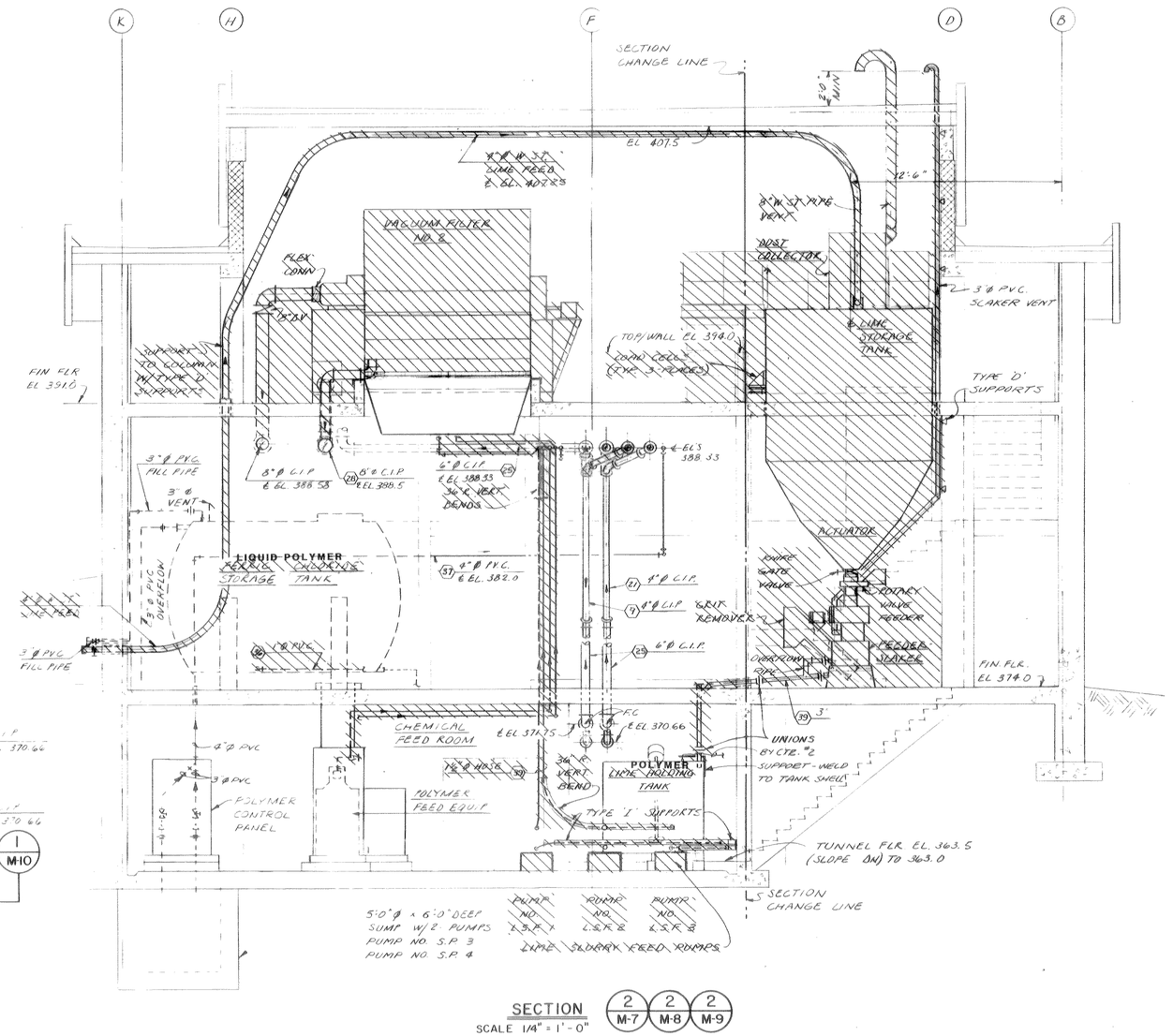


PLAN
SCALE 1/4" = 1'-0"



SECTION
SCALE 1/4" = 1'-0"
2 M-7 | 2 M-8 | 2 M-9

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

BELT PRESS
(7) VACUUM FILTRATE
(21) EFFLUENT WATER
BELT PRESS
(25) VACUUM FILTER FEED
(28) DRAIN PIPES
(36) POLYMER CHEMICALS PIPES
(37) 4" P.V.C. SUMP PUMP DISCHARGE
(38) POLYMER SYSTEM PIPES
(39) LIME SYSTEM PIPES

NOTES:

1. ALL PIPING TO BE SUPPORTED 4'-0" O.C. MAX.
2. FOR PIPING CONFIGURATION SEE SCHEMATIC ON SHEET
3. PIPE HANGERS & SUPPORTS SHOWN IN PLAN VIEW ONLY.
4. IN LIME FEED PUMP AREA SUCTION AND DISCHARGE HOSE LENGTHS SHALL BE INTERCHANGEABLE WITH ALL 3 PUMPS

1/4" = 1'-0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRUBAKER 31819 OF THE STATE OF NEW YORK

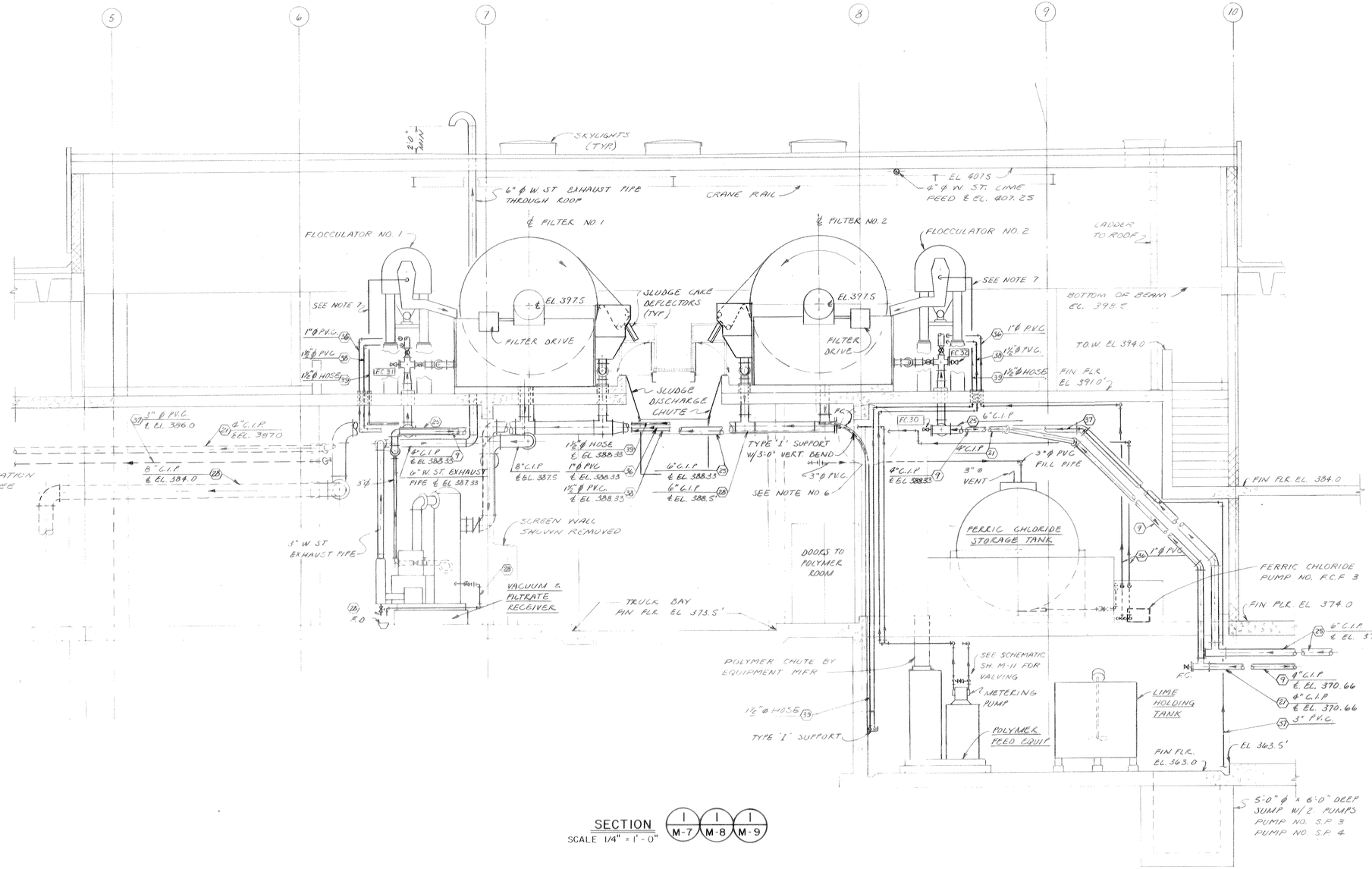
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD				JLS	9/8/83
1	PRELIMINARY FOR PROPOSAL PK-60				JLS	11/15/79
	AET	11/16/79	DSH	PRW		

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Brubaker

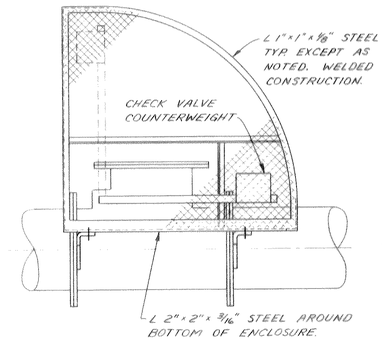
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
VACUUM FILTER & SLUDGE LOADING AREAS
PLAN & SECTIONS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-9B-BP

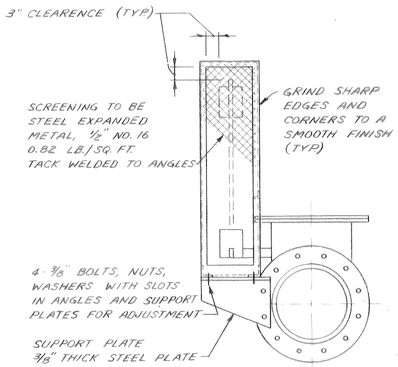
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION (I M-7) (I M-8) (I M-9)
SCALE 1/4" = 1'-0"



NOTE: ENCLOSURES REQUIRED ON ALL COUNTERWEIGHTS THAT ARE 7'-0" OR LESS IN HEIGHT ABOVE FLOOR.



NOTE: SIZE OF ENCLOSURE TO BE VERIFIED WITH CHECK VALVES SELECTED

COUNTERWEIGHT SAFETY ENCLOSURE
NO SCALE

PIPING LEGEND

(7) VACUUM FILTRATE
(21) EFFLUENT WATER
(25) VACUUM FILTER FEED
(28) DRAIN PIPES
(56) FERRIC CHLORIDE PIPES
(57) 3" PVC SUMP PUMP DISCHARGE
(58) POLYMER SYSTEM PIPES
(39) LIME SYSTEM PIPES

NOTES:

1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX.
2. PIPE HANGERS AND SUPPORTS SHOWN IN PLAN VIEW ONLY.
3. ALL AIR SUPPLY PIPING, HOSE BIBS, EYE WASH & SHOWERS, AND FLOOR DRAINS BY CTR. NO 4.
4. HOSE RACKS & HOSE BY CTR NO 1.
5. FOR PIPING CLARIFICATION - SEE SCHEMATIC SH M-11
6. SLOPE ALL CHEMICAL FEED LINES- (39), (58) TO LOW POINT, & (56) TO PUMPS.
7. TYPE 'I' SUPPORT TO BE CONTINUOUS UNDER ((39) LINE SYSTEM PIPES) IN VERT. & HORZ.

1/4" = 1'-0" 2 0 2 4 6 8 10

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER STERLING G. GAYDON 31810 ASSISTANT OF THE STATE OF NEW YORK

FOR REVISIONS AT VACUUM FILTERS SEE DWGS M-10A-BP & M-10B-BP.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JKS	9/8/83
2	FOR CONSTRUCTION LEW/AES	2/24/78	PRW	PRW	SGB	2-24-78
1	FOR APPROVALS LEW/AES	3-30-76	PRW	PRW	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Baudin

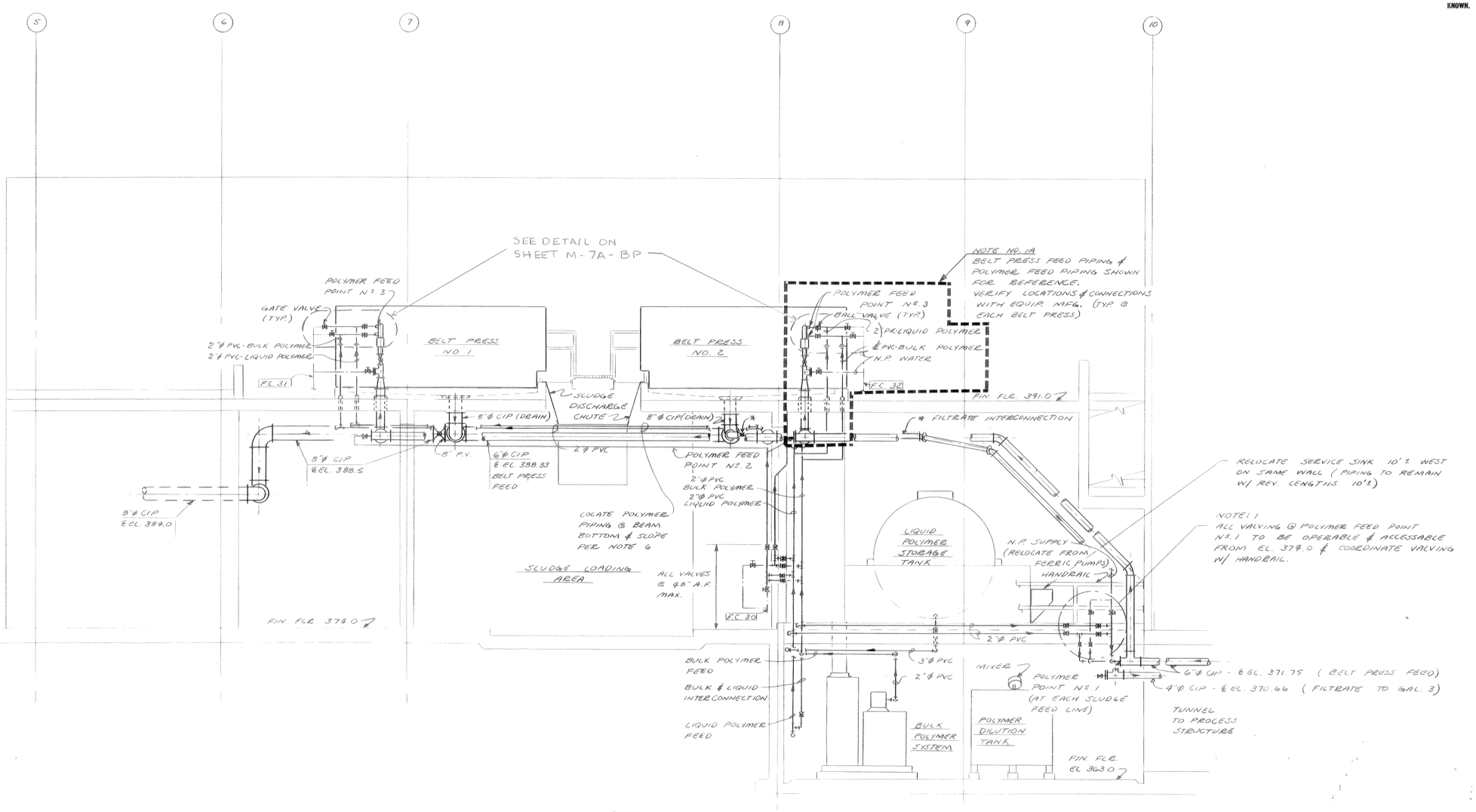
FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
VACUUM FILTER & SLUDGE LOADING AREAS - SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-10

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION
SCALE 1/4" = 1'-0"

I / M-7A-BP | I / M-9A-BP

1/4" = 1'-0" 2 0 2 4 6 8 10

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

NOTES
1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX.
2. ALL CI OR DI PIPE TO BE SUPPORTED @ 10'-0" O.C. MAX.
3. PIPE HANGERS & SUPPORTS NOT SHOWN - COORDINATE W/ SPECIFICATIONS & G-2.
4. ALL AIR SUPPLY PIPING, HOSE BIBBS, EYE-WASH & SHOWERS TO REMAIN AS LOCATED.
5. HOSE RACKS & NOZZLES BY CTR. NO. 1
6. SLOPE ALL CHEMICAL FEED LINES TO LOW POINT @ TANK & PUMPS FOR DRAINAGE.

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RELOC P. AEF				JLS	9/8/83
2	REV. POL. PIPING SIZES & SEE. 3 INR. PKW	11.29.79	DJH	PKW	JLS	12/21/79
1	PRELIMINARY FOR PROPOSAL PC-60 PKW	11-15-79	DJH	PKW	JLS	11/15/79

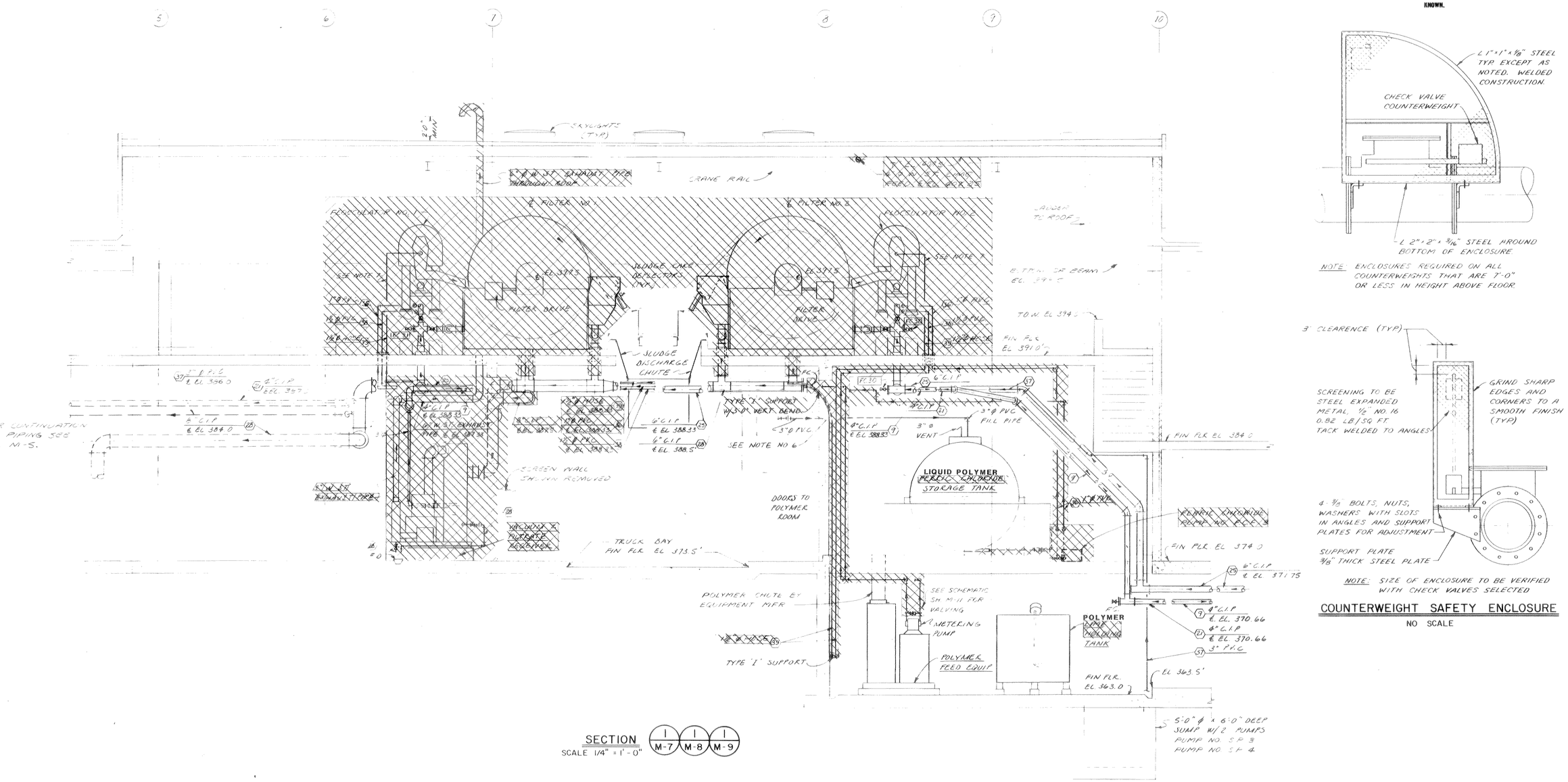
PROJECT SUPERVISOR David C. Hanna
APPROVED Joel Swanson

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BELT PRESS & SLUDGE LOADING AREAS - SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-10A-BP

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION
SCALE 1/4" = 1'-0"

NOTE: ENCLOSURES REQUIRED ON ALL COUNTERWEIGHTS THAT ARE 7'-0" OR LESS IN HEIGHT ABOVE FLOOR.

NOTE: SIZE OF ENCLOSURE TO BE VERIFIED WITH CHECK VALVES SELECTED

COUNTERWEIGHT SAFETY ENCLOSURE
NO SCALE

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

BELT PRESS
(7) FILTRATE
(21) FLOCCULATOR WATER
(28) POLYMER FEED
(29) DRAIN PIPES
(36) FERRIC CHLORIDE FEED
(37) 3" PVC SUMP PUMP DISCHARGE
(38) POLYMER SYSTEM VENTS
(39) CHUTE SYSTEM FLUSH

NOTES:

1. ALL PVC PIPING TO BE SUPPORTED @ 4'-0" O.C. MAX.
2. PIPE HANGERS AND SUPPORTS SHOWN IN PLAN VIEW ONLY.
3. ALL AIR SUPPLY PIPING, HOSE BIBS, EYE WASH & SHOWERS, AND FLOOR DRAINS BY CTR NO 4.
4. HOSE RACKS & HOSE BY CTR NO 1.
5. FOR PIPING IDENTIFICATION SEE SPECIFICATION SECTION 15190.
6. SLOPE ALL CHEMICAL FEED LINES (29) (36) TO LOW POINT, (36) TO PUMPS.
7. ALL SUPPORTS TO BE COATED WITH POWDER (39) (SYSTEM FLUSH) IN YEAR OF USE.

1/4" = 1'0" 2 0 2 4 6 8 10

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD AS BUILT				JLS	9/8/83
1	PRELIMINARY SUBMISSION					
	MEJ	11-15-82	DJH	FKW	JLS	11/15/82

PROJECT SUPERVISOR Jack L. Swanson
APPROVED S.G. Britin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BELT PRESS & SLUDGE LOADING AREAS - SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-10B-BP

NOTE:
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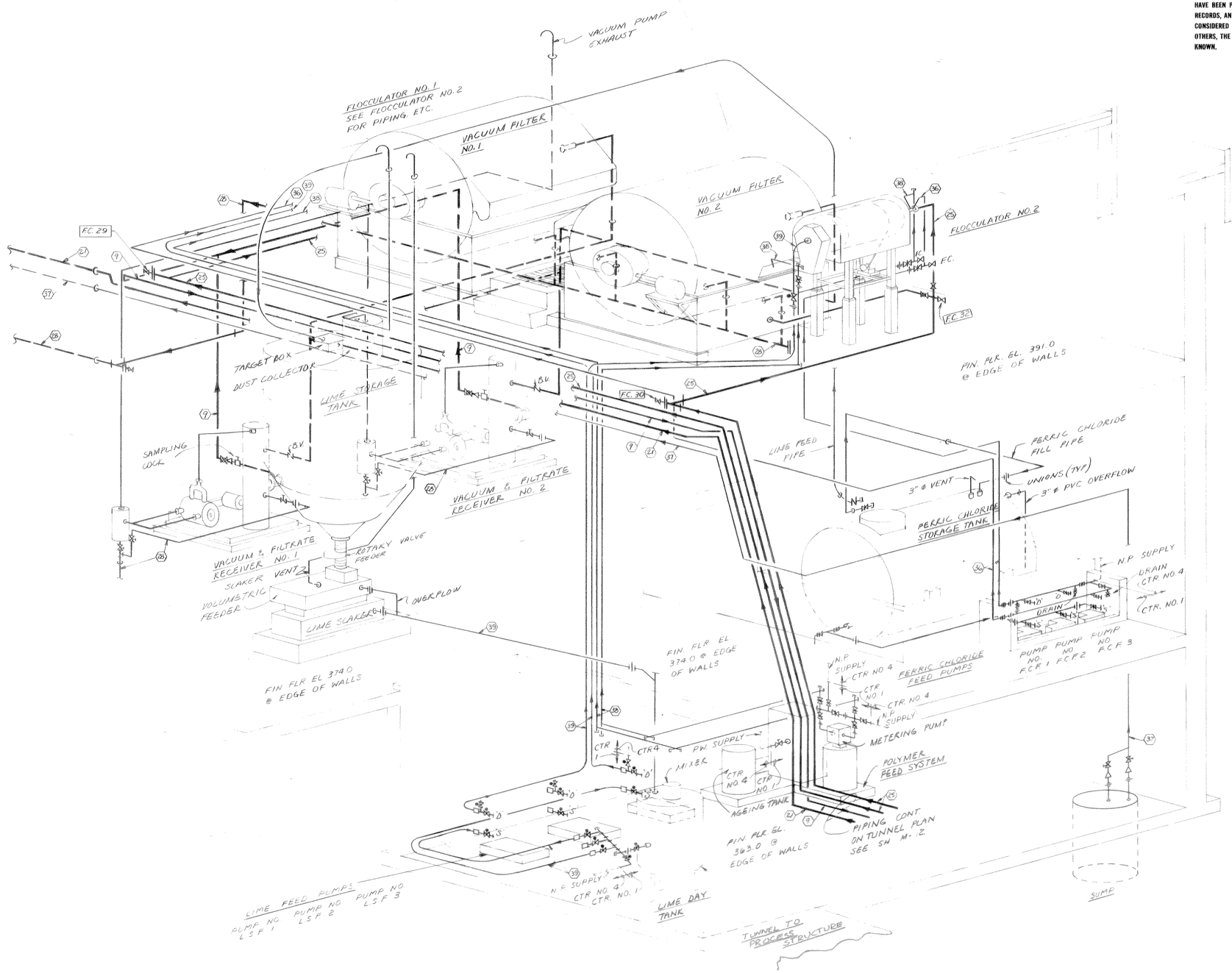

PROCESS SCHEMATIC

PIPING LEGEND

(7) VACUUM FILTRATE
(21) EFFLUENT WATER
(25) VACUUM FILTER FEED
(28) DRAIN PIPES
(36) FERRIC CHLORIDE PIPES
(37) 3" PVC SUMP PUMP DISCHARGE
(38) POLYMER SYSTEM PIPES
(39) LIME SYSTEM PIPES

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per F.L.D.

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FOR REVISIONS AT VACUUM FILTERS, SEE DWGS. M-7A-BP, M-9A-BP, M-7B-BP THRU M-10B-BP.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS -

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JLS	9/8/83
2	FOR CONSTRUCTION L.E.W.	8/24/78	P.K.W.	P.K.W.	SGB	2-24-78
1	FOR APPROVALS L.E.W.	3-30-76	P.K.W.	P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel T. Swanson APPROVED S.G. Brinkerhoff

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
VACUUM FILTER & CHEMICAL FEED - SCHEMATIC

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-11

NOTE:
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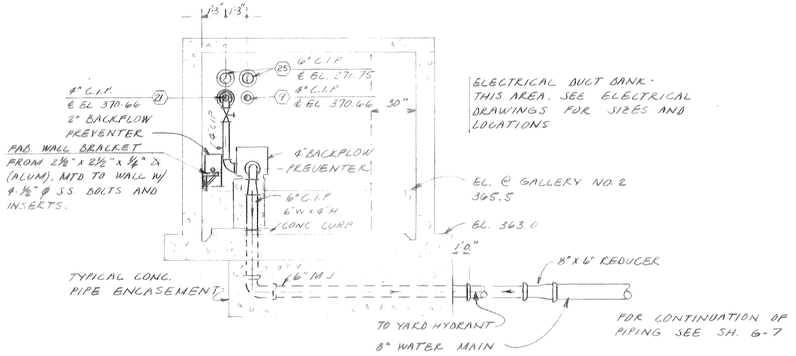
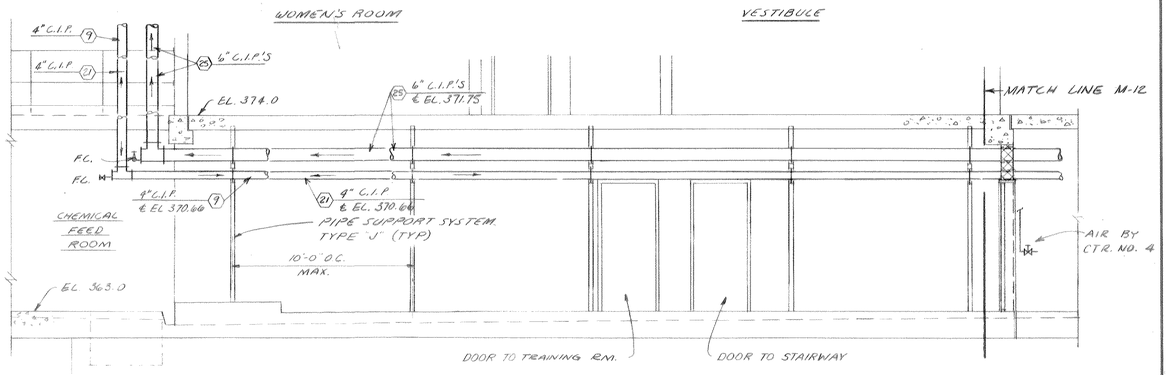
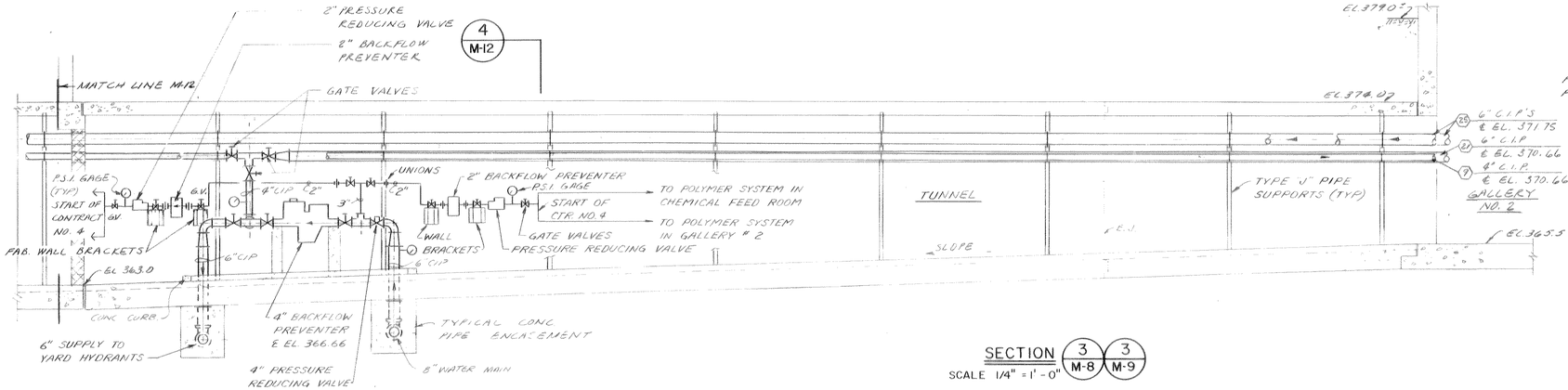


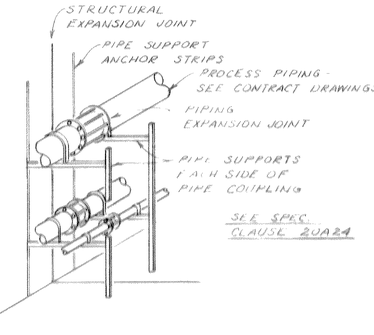
SECTION 4/M-12
SCALE 1/4" = 1'-0"



SECTION 3/M-8 3/M-9
SCALE 1/4" = 1'-0"



SECTION 3/M-8 3/M-9
SCALE 1/4" = 1'-0"



PIPE COUPLING AT
STRUCTURAL EXPANSION JOINT

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(9) VACUUM FILTRATE
(21) EFFLUENT WATER
(23) VACUUM FILTER FEED

NOTES:

1. SUPPORT ALL PVC PIPING @ 4'-0" O.C. MAX.

¼" = 1'0" 2 0 2 4 6 8 10
½" = 1'0" 1 0 1 2 3 4 5

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRUSH 31810 UNIVERSITY OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEF				JLS	9/8/83
2	FOR CONSTRUCTION LEW/AEF	2-24-78	P.R.W.		SGB	2-24-78
1	FOR APPROVALS L.E.W.	3-30-76	P.R.W.	P.R.W.	SGB	3-31-76

PROJECT SUPERVISOR J. L. Swango APPROVED S. G. Brush

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
TUNNEL - CONTROL BUILDING TO PROCESS STRUCTURE - SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-12

NOTE:
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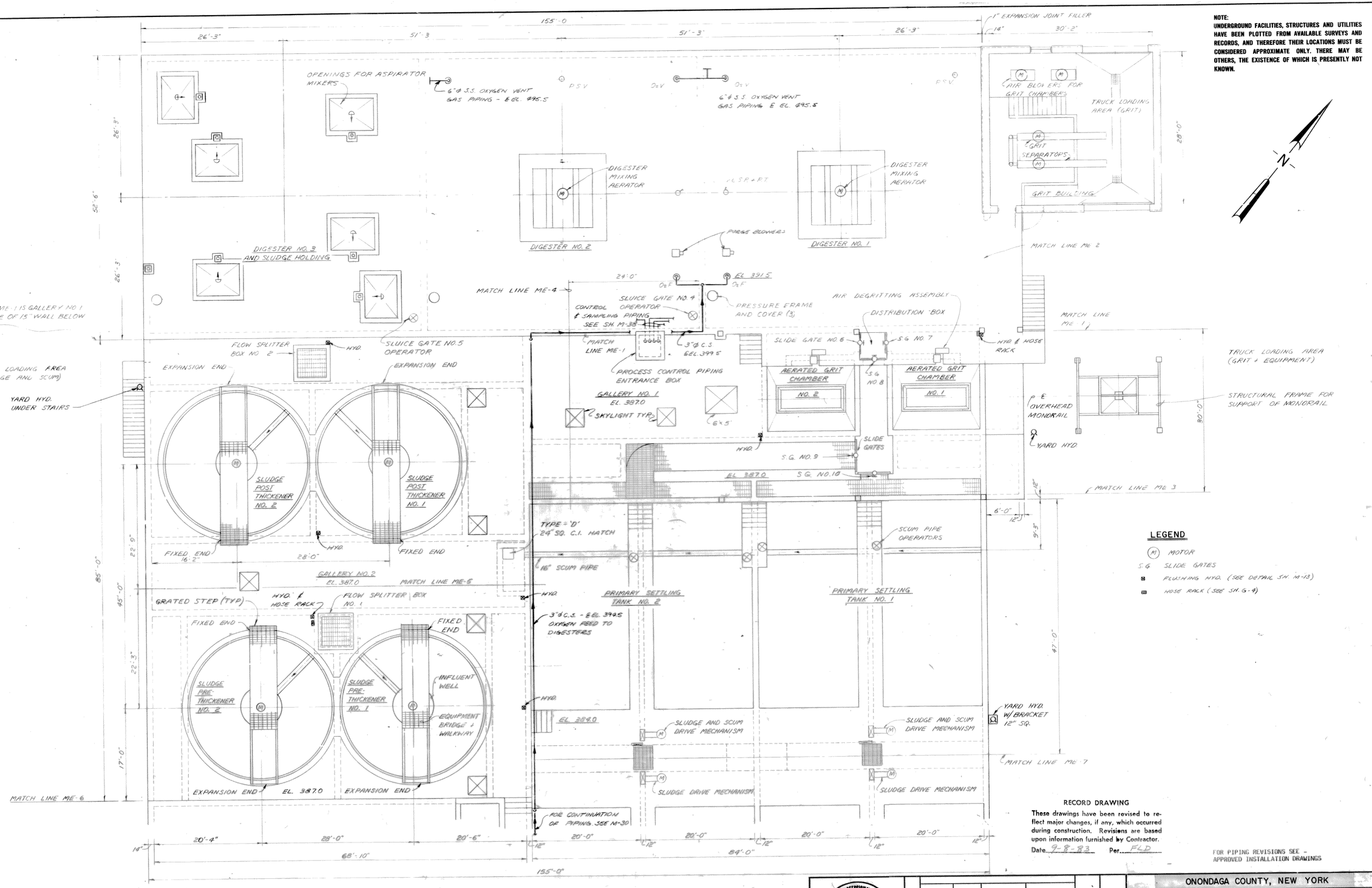

PLAN
SCALE 1/8" = 1'-0"

1/8" = 1'0" 8 4 0 8 16

LEGEND
- (M) MOTOR
- S.G. SLIDE GATES
- FLUSHING HYD. (SEE DETAIL SH. M-13)
- HOSE RACK (SEE SH. G-9)

RECORD DRAWING
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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JLS				JLS	7/6/83
2	FOR CONSTRUCTION PKW/AFW	2/24/78	JLS	PKW/AFW	SKB	2-24-78
1	FOR APPROVALS PKW/AFW	3-30-76	JLS	PKW/AFW	SKB	3-31-76

PROJECT SUPERVISOR A.G. Wheler APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT FACILITIES, DIGESTERS, THICKENERS AND PRIMARY SETTLING TANKS UPPER PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-13

NOTE:
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155'-0"
1'-3" 50'-0" 1'-3" 50'-0" 1'-3" 50'-0" 1'-3" 1'-2" 30'-2"
1" EXPANSION JOINT FILLER

DIGESTER NO. 3 AND SLUDGE HOLDING FL. EL. 374.50
ASPIRATORS (6 REQ.)
DIGESTER NO. 2 FL EL. 371.0
DIGESTER NO. 1 FL EL. 371.0
GRIT BUILDING
AIR BY CTR #4 ABOVE FL. EL. 391.5
28'-0"
50'-0"
ROOF SUPPORT COLUMNS
EFFLUENT BOX
24" SQ. SLUICE GATE NO. 5
EFFLUENT BOX
24'-0"
24" SQ. SLUICE GATE NO. 4
MATCH LINE ME-4
EFFLUENT BOX
DISTRIBUTION BOX
MATCH LINE ME-1
SLUDGE SAMPLING SINK N° 2
POLYMER FEED EQUIPMENT
PUMP NO. S.P. 5
PUMP NO. S.P. 6
MATCH LINE ME-1
DIGESTED SLUDGE PUMPS
SUMP NO. 1
PUMP NO. D.S. 2
PUMP NO. D.S. 1
SLUDGE SAMPLING SINK N° 1
NO. 2 AERATED
NO. 1 GRIT CHAMBERS
TUNNEL
GALLERY NO. 2
GALLERY NO. 1
PUMP NO. P.S. 3
PUMP NO. P.S. 2
PUMP NO. P.S. 1
AIR BY CTR #4
AIR TO SAMPLER
MATCH LINE ME-2
PRIMARY SLUDGE PUMPS
GALLERY NO. 1 FL EL 365.5 @ EDGE OF WALLS
AIR HOSE RACK
MATCH LINE ME-3
PIERS FOR SUPPORT OF MONORAIL STRUCTURAL FRAME
SLUDGE POST THICKENER NO. 2
SLUDGE POST THICKENER NO. 1
GALLERY NO. 2 FL EL 365.5 @ EDGE OF WALLS
PUMP NO. S.C.M. 1
PRIMARY SCUM PUMP
45'-5"
85'-0"
MATCH LINE ME-5
PUMP NO. T.S. 5
PUMP NO. T.S. 4
PUMP NO. T.S. 3
POST THICKENED SLUDGE PUMPS
GALLERY NO. 2 FL EL 365.5 @ EDGE OF WALLS
PRE THICKENED SLUDGE PUMPS
AIR BY CTR #4
TUNNEL
PUMP NO. T.S. 2
PUMP NO. T.S. 1
SCUM PIT
16" SCUM PIPE
MATCH LINE ME-2
MATCH LINE ME-9
PRIMARY SETTLING TANK NO. 2
PRIMARY SETTLING TANK NO. 1
SLUDGE PRE THICKENER NO. 2
SLUDGE PRE THICKENER NO. 1
T&E RAILS
METAL DIAPHRAGM
METAL DIAPHRAGM
39'-3"
SUMP NO. 2
PUMP NO. S.P. 7
PUMP NO. S.P. 8
MATCH LINE ME-6
SLUDGE
HOPPERS
MATCH LINE ME-7
47'-0"
ELECTRICAL ROOM
CONTROL ROOM
GALLERY NO. 3
GALLERY NO. 4
14' 55'-10" 12'-0" 12' 20'-0" 12' 20'-0" 12' 20'-0" 12' 20'-0" 12'

PLAN
SCALE 1/8" = 1'-0"

1/8" = 1'0" 8 4 0 8 16

RECORD DRAWING
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Date 9-8-83 Per F.L.D.

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD VLS				JLS	9/8/83
2	FOR CONSTRUCTION AFW/AES	2/24/78	JLS	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS AFW/AS	3-30-76	J.L.S.	A.F.W./P.K.W.	S.G.B.	3-31-76

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT FACILITIES, DIGESTERS, THICKENERS AND PRIMARY SETTLING TANKS LOWER PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.
JOB NO. 577 CONTRACT NO. 1 SHEET M-14

NOTE:
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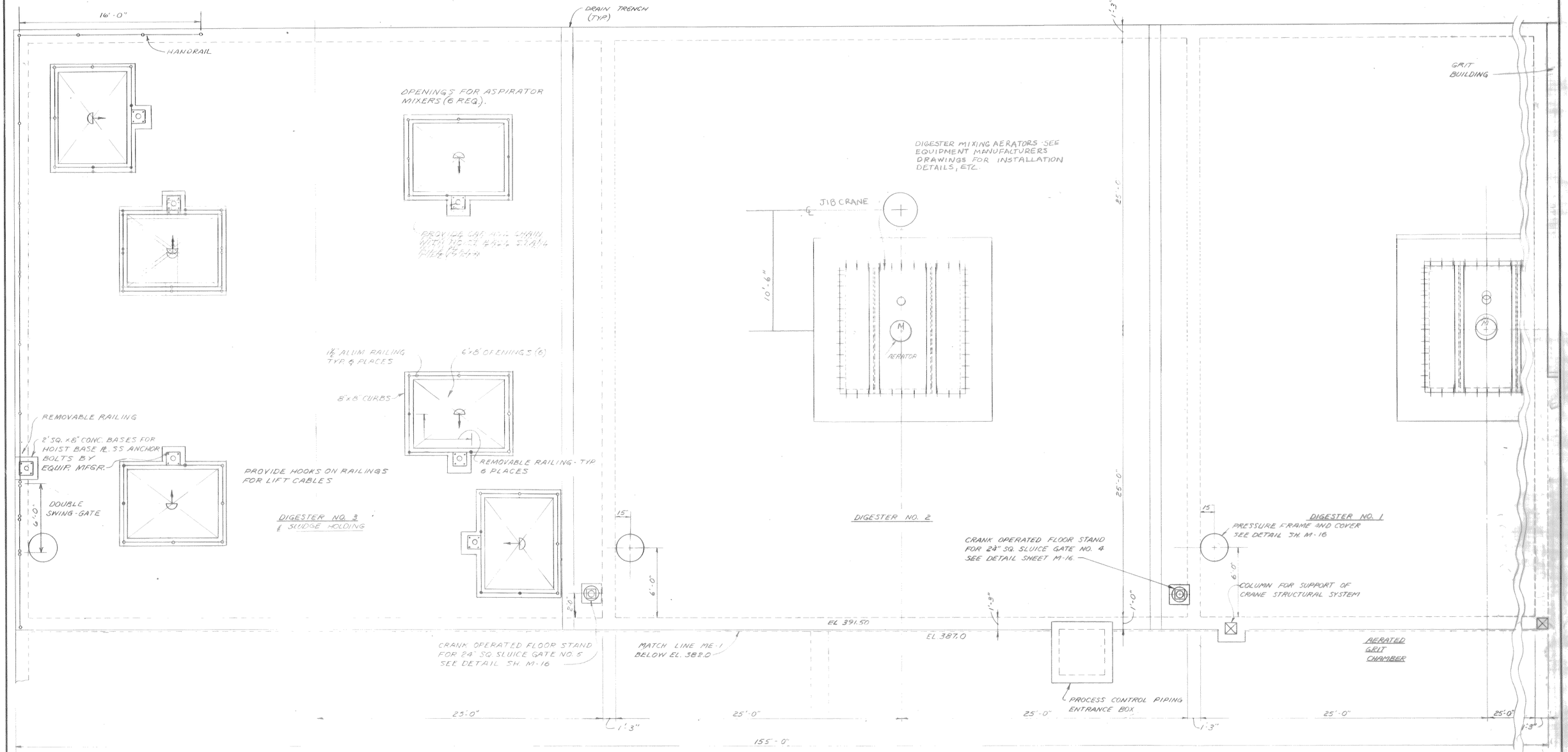

PLAN
SCALE 1/4" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per F.L.D.

NOTE:
VERIFY LOCATION, SIZE, ETC. OF ROOF PENETRATIONS REQUIRED WITH EQUIPMENT SELECTED.

1/4" = 1'-0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31610 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEP				JLS	9/8/83
2	FOR CONSTRUCTION AFW	3/24/78	J.L.S.	AFW/PKW	SGB	3-24-78
1	FOR APPROVALS A.F.W.	3-30-76	J.L.S.	A.F.W./P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Jack L. Swanson
APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

DIGESTERS
UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-15

CONC. WALL

ASPIRATORS LOCATIONS

PUMP

PLAN OF ASPIRATOR TYPICAL-6 REQ.

NOZZLE

DIGESTER NO. 3 & SLUDGE HOLDING FL. EL 374.5

OVERFLOW BOX AND WEIR

8" C.I.P. ℄ EL. 382.0

MATCH LINE ME-1

1'-2"

TYPE 'G'

VERIFY

5 6 25 8" C.I.P. ℄ EL. 376.0 24" SQ.

24" SQ. SLUICE GATE NO.5 SEE DETAIL THIS SHEET

℄ EL. 376.0

DIGESTER NO. 2 FL. EL. 371.0

24" 10"

OVERFLOW BOX AND WEIR EL 385.60

1'-0"

4'-0"

2'-2"

WEIR - SEE DETAIL SHEET M-67

7 8" C.I.P. ℄ EL. 383.5

4 6 8 8" C.I.P. ℄ EL. 376.0

28 8" C.I.P. ℄ EL. 373.5

25'-0"

1'-3"

AERATOR SUPPORTS

CONCRETE PIPE SUPPORT TYPE 'G'

5 6 8" C.I.P. ℄ EL. 373.0

24" SQ. SLUICE GATE NO.4 SEE DETAIL THIS SHEET

12"x24"x6" DEEP PIT

18 13 12 6" C.I.P. ℄ EL. 376.0 6 4

1'-3"

28 8" C.I.P. ℄ EL. 370.93

25'-0"

DIGESTER NO. 1 FL. EL. 371.0

TYPE 'G'

5 6 8" C.I.P. ℄ EL. 373.0

OVERFLOW BOX AND WEIR

12"x24"x6" DEEP PIT

4 6 6" C.I.P. ℄ EL. 376.0 12 13 18

7 8" C.I.P. ℄ EL. 382.0

28 8" C.I.P. ℄ EL. 370.93

MATCH LINE ME-1

PIPE SUPPORT SEE DETAIL TYPE 'H'

25'-0"

25'-0"

1'-3"

3" 12"

PLAN

SCALE 1/4" = 1'-0"

CRANK OPERATED FLOOR STAND

18"

7/8" ANCHOR BOLTS 6 REQUIRED

DRILL AND TAP 16" O.D. FLANGE FOR FLOOR STAND BOLTS

1/4" NEOPRENE GASKETS (3 REQ.) SEE DETAIL THIS SHEET

EL. 391.5

8"

7'-6"

VERIFY WITH GATE SELECTED

6" DIA. PIPE

DIGESTER NO. 1

DIGESTER NO. 2

W.S. EL. 386.0

WEIR

W.S. EL. 386.0

COUPLING

24"

24" SQ. SLUICE GATE

5'-9"

1'-5"

EL. 377.0

SLUICE GATE DETAIL

SELF CONTAINED 2 REQUIRED
SCALE 3/8" = 1'-0"

PIPING LEGEND

- PRETHICKENED SLUDGE
- DIGESTED SLUDGE
- DIGESTER RECIRCULATION
- DIGESTER TRANSFER
- POST THICKENED SLUDGE
- WASTE SLUDGE(1ST STAGE)
- WASTE SLUDGE(2ND STAGE)
- PRIMARY SCUM
- VACUUM FILTER FEED
- DRAIN

1/16" NEOPRENE GASKETS (3)

DRILL AND TAP 16" O.D. FLANGE FOR FLOOR STAND BOLTS

1/8" ANCHOR BOLTS (6)

16" O.D. FLANGES

8"

2'-0"

18" O.

FLOOR STAND SUPPORT DETAIL

SCALE 3/4" = 1'-0" 2 REQUIRED

RECORD DRAWING

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Date 9-8-83 Per FLD

3/4" = 1'0" 1 0 1 2 3

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

1/4" = 1'0" 2 0 2 4 6 8 10

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7/8" ANCHOR BOLTS (12)

1/4" NEOPRENE GASKET

8"

2'-2"

PRESSURE FRAME AND COVER DETAIL

NO SCALE 3 REQUIRED DIGESTER
5 REQUIRED IST AND 2ND STAGE AERATION TANKS

NOTE:
SEE STRUCTURAL DRAWINGS FOR ALL TYPICAL CURBING REINFORCING.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORDED KLS				JLS	9/16/83
2	FOR CONSTRUCTION AFW/JAS	9/24/78	J.L.S.	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS A.F.W./J.A.S.	3-30-76	J.L.S.	A.F.W./P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR John L. Stevens — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT

DIGESTERS
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-16

NOTE:
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1 / M-17

DRIP TRAPS

FLOWERS 30,140 C.F.M. @ 6.4 P.S.I.

BLOWER NO. 2

BLOWER NO. 1

TYPE 'H' PIPE SUPPORT

(41) AIR PIPING TO AERATED GRIT CHAMBERS (3")

6" C.I.P.

GRIT BUILDING EL. 391.50 @ EDGE OF WALLS

3 8" C.I.P. EL. 388.75

TRUCK LOADING AREA (GRIT)

18"x18" DEEP x 20" LG TRENCH WITH HEAVY DUTY C.I. FRAME AND GRATED COVER

Detail "A"

1" Union

1" Corporation

MONORAIL AND GRIT CHAMBERS

No Scale

2 / M-17

DWG. M-17C

EXHAUST SNUBBERS

INLET SNUBBER

BLOWER NO. 2

BLOWER NO. 1

30'-8"

DOWN

TRUCK LOADING AREA

GRIT CLASSIFIERS NO. 2

NO. 1

8" VENT VENTS

CYCLONES

EL. 391.50 @ EDGE OF WALL AND EDGE OF CURBING

EL. 383.50 @ EDGE OF WALLS

OUTER LIMIT OF LARGE DUMP TRUCK

PLAN

Core drill hole in floor and grout annular space (per specs.)

2-1" Schedule 80 PVC

DETAIL NO. 2

2 / M-17

EXTEND TOP OF PIPE 12" ABOVE TRENCH BOTTOM MAKE REMOVABLE TO DRAIN TRENCH

NOTE:
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1" Schedule 80 PVC VENT PIPE (Maintain slope of 0.1 in/ft (min.) from Corporation Cock to vertical run)

1" Tee w/ 1" Threaded end cap

RETURN BEND WITH SCREEN 2 REQ'D.

2-1" Corporation Cocks (Tap into top of 8" Pipe barrel) each side of bend See Detail "A" Below

GRIT BUILDING

VENTS

GRIT CLASSIFIERS AND CYCLONES

NO. 2

NO. 1

AIR INTAKES (INSULATED)

CONCRETE

Core drill hole for repour

EL. 391.5

EL. 388.75

EL. 383.5

BLOWER NO. 1

DRIP TRAPS

(41) AIR PIPING TO AERATED GRIT CHAMBERS (3")

6" C.I.P. EL. 388.75

6" C.I.P. EL. 387.25

6" C.I.P. EL. 383.75

6" C.I.P. EL. 388.75 CYCLONE BYPASS TO FLUSH (3)

Existing 8"-22½° Bend

Existing 8" Degritted Sludge Line

TUNNEL

MATCH LINE MIL 1

MATCH LINE MIL 2

HOPPER SUPPORT COLUMNS

DETAIL NO. 1

INSULATE ALL AIR PIPING IN TUNNEL & GRIT BLDG

AIR PIPING LOW POINT

EL. 387.0

BRICK PANEL

1" ANCHOR BOLTS

2" HOLE 37'-7"

EC #148

4" SCH. 80

6" C.I.P. EL. 374.5

4" C.I.P. EL. 373.0

6" C.I.P. EL. 376.0

DRIP TRAPS

4-5/8" CINCH ANCHOR BOLTS

SEE STRUCTURAL DWGS. FOR STAIRS IN THIS AREA.

EL. 365.5

30'-0"

SEE DETAILS NO. 1 AND NO. 2

28'-0"

SECTION

SCALE 1/4" = 1'-0"

1 / M-17

INLET SNUBBER

EXHAUST SNUBBERS

BLOWER NO. 2

BLOWER NO. 1

DOWN

30'-0"

28'-0"

8" VENTS

8" C.I.P. VENTS

GRIT CLASSIFIERS

CYCLONES

EL. 391.50 @ EDGE OF WALL AND EDGE OF CURBING

EL. 383.50 @ EDGE OF WALLS

PLAN

SCALE 1/4" = 1'-0"

2 / M-17

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

DUCT SEAL NO. 1

ANNEAL GRIT CHAMBER

GALLERY NO. 1

MONORAIL AND GRIT CHAMBERS

FIRE HANGER

AIR PIPING TO AERATED GRIT CHAMBERS (3") (ALL AIR PIPING IN TUNNEL & GRIT BUILDING TO BE INSULATED)

6" C.I.P. EL. 374.5

4" C.I.P. EL. 373.0

EC #148

MATCH LINE MIL 3

3 AIR PIPES

8" C.I.P. EL. 388.75 (3)

6" C.I.P. EL. 374.5 (2)

6" C.I.P. EL. 388.75 (2)

CYCLONE

GRIT CLASSIFIER

SUPPORT ROD ⅛" ANCHOR TO EXIST.

EL. 391.50

EL. 383.5

7'-6"

10'-0"

OUTER LIMIT OF LARGE DUMP TRUCK

30'-2"

9'-0"

SECTION

SCALE 1/4" = 1'-0"

3 / M-17

PIPING LEGEND

3 PRIMARY SLUDGE

2 DIGESTED SLUDGE

1 EFFLUENT WATER

(41) AIR PIPING

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

1/4" = 1'-0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER — STERLING G. BRUSH — 31810 — STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					
	AEF			JLS		9/8/83
	FOR CONSTRUCTION					
2	AFW/JAES	2/26/78	JLS	AFW/PKW	SCB	2-27-78
	FOR APPROVALS					
1	AFW/JAS	3-30-76	J.L.S.	AFW/PKW	SCB	3-31-76

PROJECT SUPERVISOR: Jack L. Stearns — APPROVED: S. G. Brush

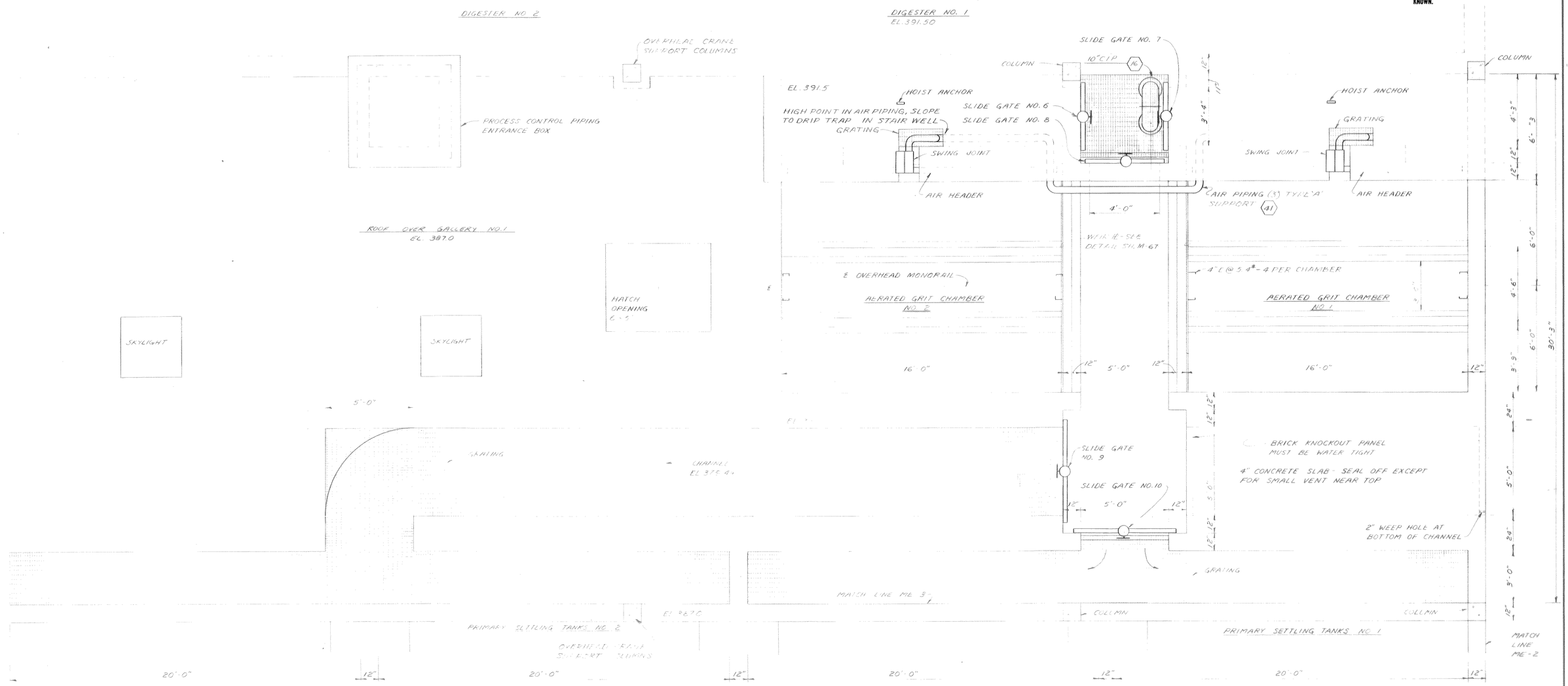
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

GRIT BUILDING
PLANS & SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-17

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN
SCALE 3/8" = 1'-0"

NOTES:
1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATION OF RAILINGS & GRATINGS.

PIPING LEGEND
(16) AUXILIARY THICKENER MAKEUP
(41) AIR PIPING

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

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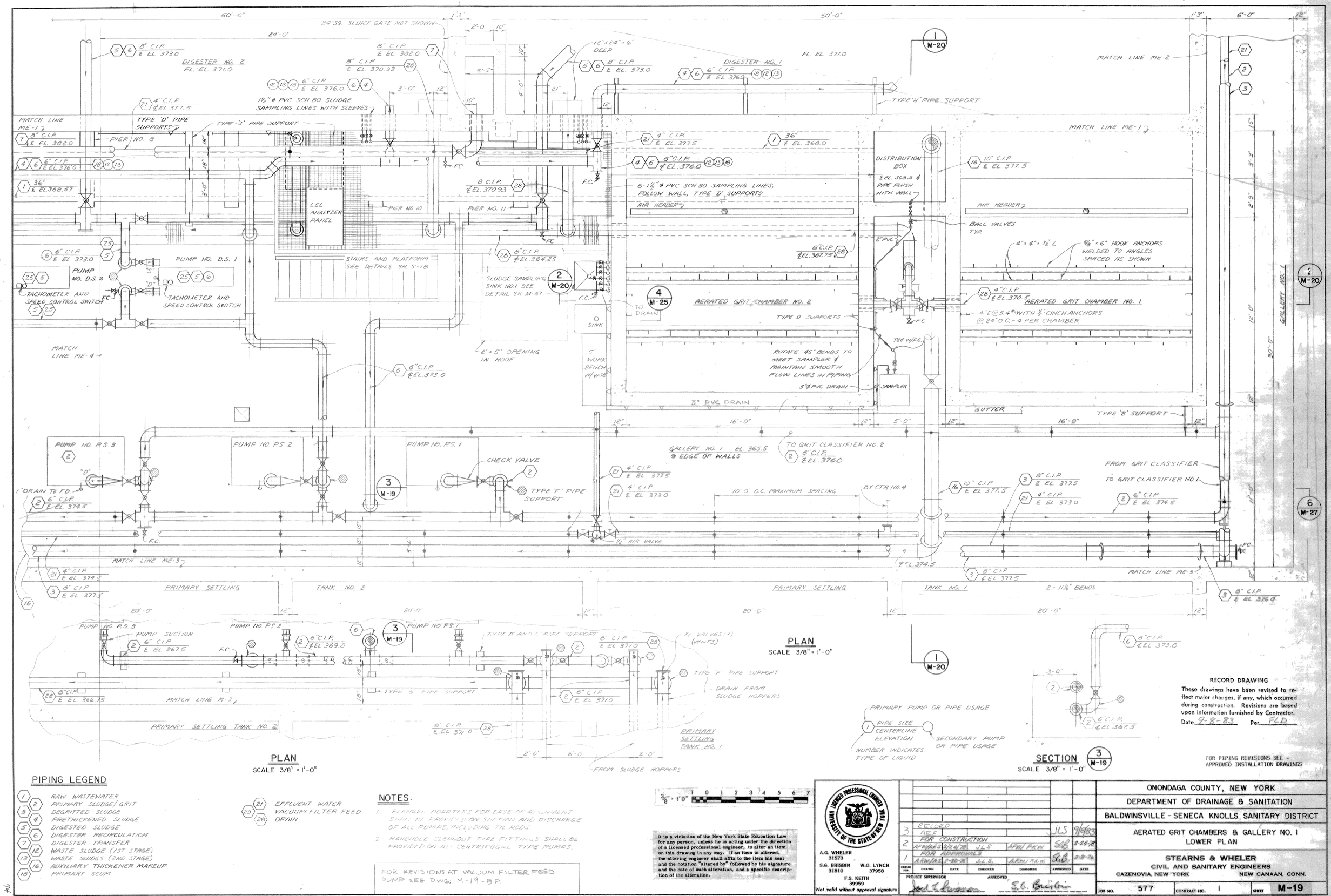
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/26/83
2	FOR CONSTRUCTION AFW/AES	2/24/78	J.L.S.	AFW/PKW	SLB	2-24-78
1	FOR APPROVALS AFW/AS	3-30-76	J.L.S.	AFW/PKW	SLB	3-31-76

PROJECT SUPERVISOR: Joel T. Swanson
APPROVED: S.C. Bricker

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
AERATED GRIT CHAMBERS & GALLERY NO. 1
UPPER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-18



PIPING LEGEND

1	RAW WASTEWATER
2	PRIMARY SLUDGE/GRIT
3	DEGRITTED SLUDGE
4	PRETHICKENED SLUDGE
5	DIGESTED SLUDGE
6	DIGESTER RECIRCULATION
7	DIGESTER TRANSFER
12	WASTE SLUDGE (1ST STAGE)
13	WASTE SLUDGE (2ND STAGE)
16	AUXILIARY THICKENER MAKEUP
18	PRIMARY SCUM
21	EFFLUENT WATER
25	VACUUM FILTER FEED
28	DRAIN

NOTES:

1. FLANGED ADAPTERS FOR EASE OF ALIGNMENT SHALL BE PROVIDED ON SUCTION AND DISCHARGE OF ALL PUMPS, INCLUDING TIE RODS.
2. HANDHOLE CLEANOUT TYPE FITTINGS SHALL BE PROVIDED ON ALL CENTRIFUGAL TYPE PUMPS.

FOR REVISIONS AT VACUUM FILTER FEED PUMP SEE DWG. M-19-BP

3/8" = 1'0"

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LICENSED PROFESSIONAL ENGINEER — CITY OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3					JLS	9/6/83
2	AEE				SAB	2-24-78
1	AFW/AES	3/24/78	JLS	AFW/PRW		
	FOR APPROVALS				SAB	3-31-76
	AFW/AES	3-30-76	JLS	AFW/PRW		

PROJECT SUPERVISOR: Joel L. Swanson — APPROVED: S.G. Brisbin

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE APPROVED INSTALLATION DRAWINGS

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

AERATED GRIT CHAMBERS & GALLERY NO. 1
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-19

DIGESTER NO. 2
FL EL 371.0

DIGESTER NO. 1
FL EL 371.0

24 SQ. SLUICE GATE NOT SHOWN

8" C.I.P. @ EL 373.0

8" C.I.P. @ EL 382.0

8" C.I.P. @ EL 370.93

12"x24"x16" DEEP

6" C.I.P. @ EL 376.0

4" C.I.P. @ EL 377.5

1½" ø PVC SCH 80 SLUDGE SAMPLING LINES WITH SLEEVES

TYPE 'H' PIPE SUPPORT

MATCH LINE ME-1

TYPE 'D' PIPE SUPPORTS

TYPE 'J' PIPE SUPPORT

PIER NO 8

PIER NO 10

PIER NO 11

LEL ANALYZER PANEL

STAIRS AND PLATFORM SEE DETAILS SH. S-18

36" @ EL 368.57

6" C.I.P. @ EL 373.0

PROGRESSIVE CAVITY PUMP DS-1

PROGRESSIVE CAVITY PUMP DS-2

F.D. 1" CU BASE DRAIN

TACHOMETER & SPEED CONTROL SWITCH

F.C.

MATCH LINE ME-4

3/4" CU WATERSEAL PIPING

NOTE: FOR TYPICAL WATERSEAL CONNECTION @ PUMPS SEE CTR. DWG. SH. G-3 DETAIL (TYP @ DS-1, DS-2 & TS-4)

EXISTING 3/4" PIPING @ PRIMARY SLUDGE PUMPS

6" C.I.P. @ EL 373.0

6"x5" OPENING IN ROOF

SINK

5' WORK BENCH W/VISE

8" C.I.P. @ EL 364.23

SLUDGE SAMPLING SINK NO1 SEE DETAIL S-1 M-67

2 M-20

6-1½" ø PVC SCH 80 SAMPLING LINES, FOLLOW WALL, TYPE 'D' SUPPORTS

AIR HEADER

8" C.I.P. @ EL 367.75

4 M-25

AERATED GRIT CHAMBER NO. 2

TYPE D SUPPORTS

ROTATE 45° BENDS TO MEET SAMPLER & MAINTAIN SMOOTH FLOW LINES IN PIPING

3" PVC DRAIN

SAMPLER

DISTRIBUTION BOX

EEL 368.5 & PIPE FLUSH WITH WALL

2" PVC

BALL VALVES TYP

AIR HEADER

4"x4"x½" L

⅝" x 6" HOOK ANCHORS WELDED TO ANGLES SPACED AS SHOWN

4 C.I.F. @ EL 370.5

AERATED GRIT CHAMBER NO. 1

4 L'S 4" WITH ⅞" CINCH ANCHORS @ 24" O.C. - 4 PER CHAMBER

TEE W/FC

GUTTER

TYPE 'E' SUPPORT

GALLERY NO. 1 EL 365.5 @ EDGE OF WALLS

TO GRIT CLASSIFIER NO 2

6" C.I.P. @ EL 376.0

FROM GRIT CLASSIFIER

TO GRIT CLASSIFIER NO 1

6" C.I.P. @ EL 374.5

MATCH LINE ME-1

MATCH LINE ME-2

GALLERY NO. 1

2 M-20

6 M-27

PUMP NO. P.S. 1

CHECK VALVE

TYPE 'F' PIPE SUPPORT

3 M-19

½" AIR VALVE

10'-0" O.C. MAXIMUM SPACING BY CTR NO 4

4" C.I.P. @ EL 374.5

8" C.I.P. @ EL 377.5

4" C.I.P. @ EL 373.0

16" C.I.P. @ EL 377.5

8" C.I.P. @ EL 376.0

2-11¼° BENDS

MATCH LINE ME-3

PRIMARY SETTLING TANK NO. 2

PRIMARY SETTLING TANK NO. 1

PUMP NO. P.S. 3

PUMP NO. P.S. 2

PUMP NO. P.S. 1

PUMP SUCTION

6" C.I.P. @ EL 367.5

6" C.I.P. @ EL 369.0

TYPE 'B' AND 'C' PIPE SUPPORT

8" C.I.P. @ EL 371.0

8" C.I.P. @ EL 371.0

½" VALVES (VENTS)

TYPE 'F' PIPE SUPPORT

DRAIN FROM SLUDGE HOPPERS

TYPE 'G' PIPE SUPPORT

8" C.I.P. @ EL 366.75

6" C.I.P. @ EL 371.0

FROM SLUDGE HOPPERS

PLAN
SCALE 3/8" = 1'-0"

PLAN
SCALE 3/8" = 1'-0"

SECTION
SCALE 3/8" = 1'-0"

3 M-19

PRIMARY PUMP OR PIPE USAGE

1 PIPE SIZE / CENTERLINE ELEVATION

NUMBER INDICATES TYPE OF LIQUID

SECONDARY PUMP OR PIPE USAGE

PIPING LEGEND

1	RAW WASTEWATER
2 3	PRIMARY SLUDGE / GRIT
4	DEGRITTED SLUDGE
5 6	PRETHICKENED SLUDGE
7	DIGESTED SLUDGE
12	DIGESTER RECIRCULATION
13	DIGESTER TRANSFER
16	WASTE SLUDGE (1ST STAGE)
18	WASTE SLUDGE (2ND STAGE)
	AUXILIARY THICKENER MAKEUP
	PRIMARY SCUM

21 25 28 EFFLUENT WATER / BELT PRESS FEED / DRAIN

NOTES:

1- FLANGED ADAPTERS FOR EASE OF ALIGNMENT SHALL BE PROVIDED ON SUCTION AND DISCHARGE OF ALL PUMPS, INCLUDING TIE RODS.

2- HANDHOLE CLEANOUT TYPE FITTINGS SHALL BE PROVIDED ON ALL CENTRIFUGAL TYPE PUMPS.

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
12	RECORD RLS				RLS	9/8/83
1	PRELIMINARY FOR PROPOSAL PC-60 PKW	11-28-79	DJH	PKW	JLS	11/29/79

PROJECT SUPERVISOR: Joel T. Lussman
APPROVED: S.G. Brisbin

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per F.D.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

INDICATES REVISED AREA

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

AERATED GRIT CHAMBERS & GALLERY NO. 1
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577/889 | CONTRACT NO. 1 | SHEET M-19-BP

NOTE:
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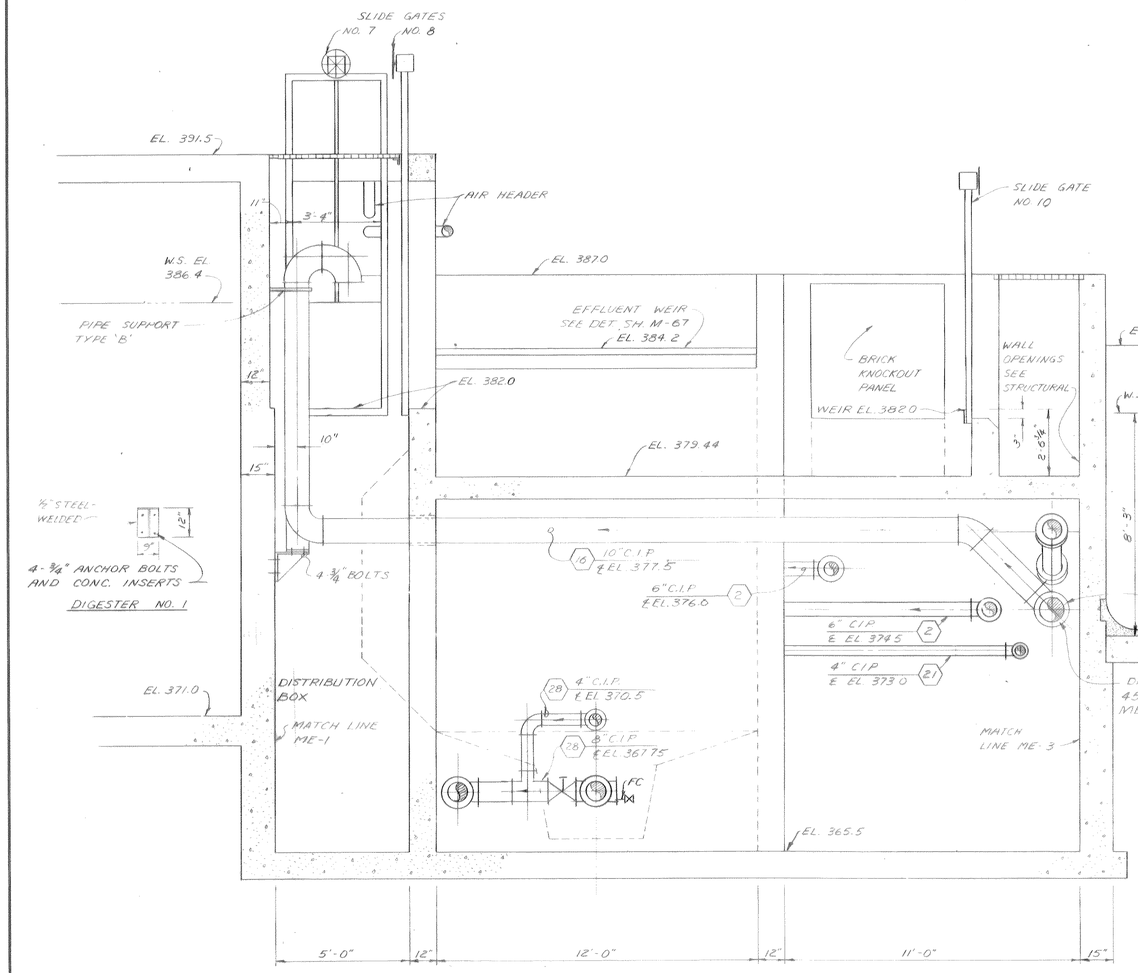
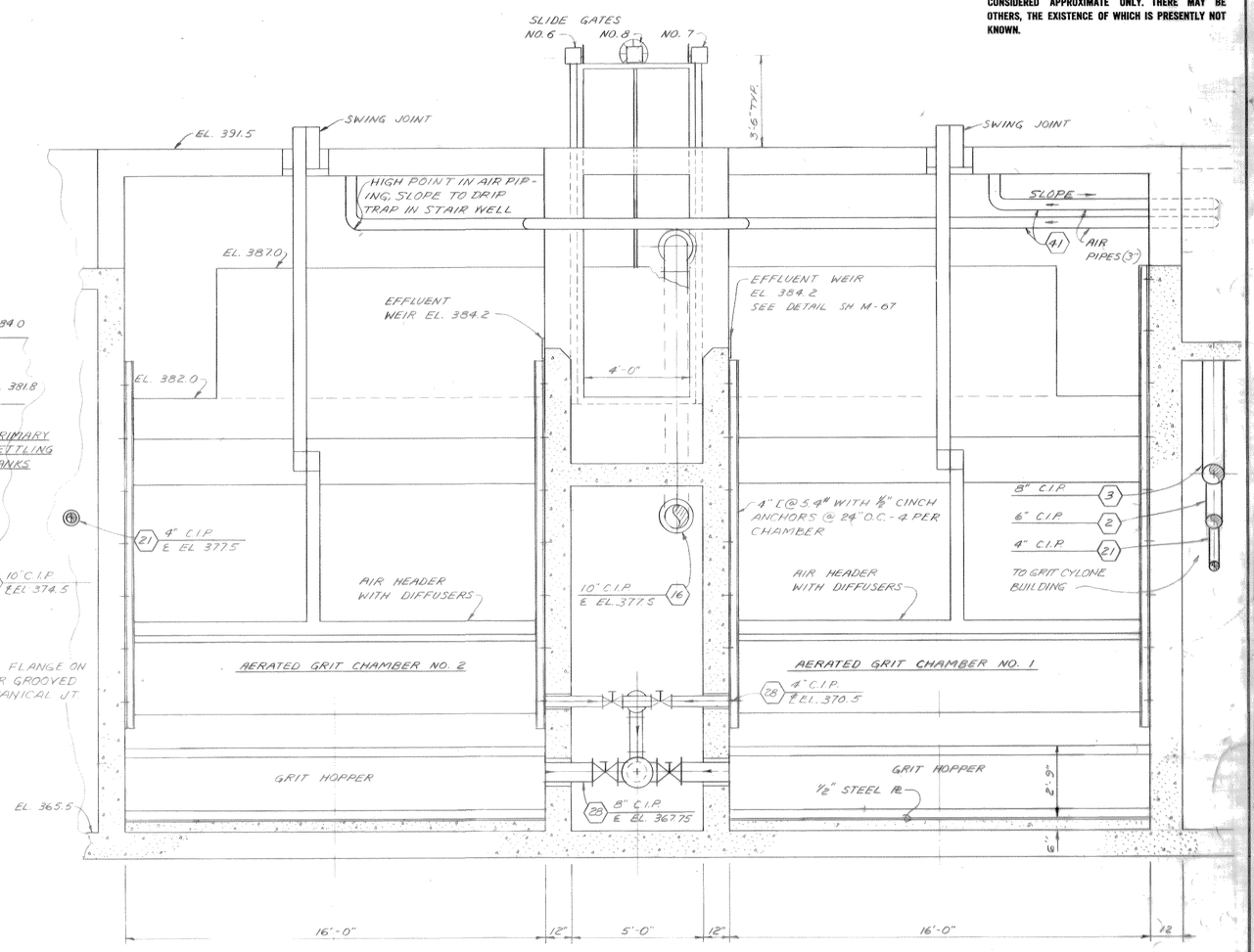


SECTION 1 / M-19
SCALE 3/8" = 1'-0"



SECTION 2 / M-19
SCALE 3/8" = 1'-0"

PIPING LEGEND

- 2 / 3 — PRIMARY SLUDGE/GRIT; DEGRITTED SLUDGE
- 16 / 21 — AUXILIARY THICKENER FEED; EFFLUENT WATER
- 28 / A1 — DRAIN; AIR PIPES

RECORD DRAWING
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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 0 1 2 3 4 5 6 7

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A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				KS	7/6/83
2	FOR CONSTRUCTION				SAB	2-24-78
2	AFW/RES	8/24/78	J.L.S.	AFW/PKW	SAB	2-24-78
1	FOR APPROVALS				SAB	3-31-76
1	AFW/AS	3-30-76	J.L.S.	AFW/PKW	SAB	3-31-76

PROJECT SUPERVISOR: Joel L. Swanson
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
AERATED GRIT CHAMBERS SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-20

DIGESTER NO. 3

DIGESTER NO. 2

DIGESTER NO. 1

MATCH LINE ME-1

MATCH LINE ME-6

TO TRUCK LOADING

2" ø TO YARD HYD.

F.C. #11

F.C. #15

F.C. #7

F.C. #6

F.C. #10

F.C. #5

F.C. #12

F.C. #13

F.C. #14

F.C. #4

F.C. #8

F.C. #9

F.C. #3

F.C. #2

F.C. #1

SPLITTER BOX NO. 2

SPLITTER BOX NO. 1

RAW WASTEWATER DISTRIBUTION BOX

AERATED GRIT CHAMBER NO. 2

GALLERY NO. 1

GALLERY NO. 2

GALLERY NO. 2

SLUDGE POST THICKENERS NO. 1

NO. 2

SLUDGE PRE THICKENERS NO. 1

NO. 2

PUMP NO. PS 3

PUMP NO. PS 2

PUMP NO. PS 1

PUMP #DS2

PUMP #DS1

PUMP #TS5

PUMP #TS4

PUMP #TS3

PUMP #TS2

PUMP #TS1

SCM 1

SCUM HOPPER

TO DISTRIBUTION BOX

TO GRIT SEPARATOR

FROM GRIT SEPARATOR

PRIMARY SETTLING TANKS

GRAVITY DRAIN TO WET WELL

PRIMARY SLUDGE DRAWOFF

TO VACUUM FILTERS

TO SLUDGE DRYING BEDS (22) AND 2ND STAGE AERATION TANKS

TO 1ST STAGE AERATION

LEGEND

1. RAW WASTEWATER
2. PRIMARY SLUDGE / GRIT
3. DEGRITTED SLUDGE
4. PRETHICKENED SLUDGE
5. DIGESTED SLUDGE
6. DIGESTER RECIRCULATION
7. DIGESTER TRANSFER
8. POST THICKENED SLUDGE
9. VACUUM FILTRATE
10. RETURN SLUDGE (1ST STAGE)
11. RETURN SLUDGE (2ND STAGE)
12. WASTE SLUDGE (1ST STAGE)
13. WASTE SLUDGE (2ND STAGE)
14. PRETHICKENER OVERFLOW
15. POST THICKENER OVERFLOW
16. AUXILIARY THICKENER MAKEUP
17. THICKENER MAKEUP
18. PRIMARY SCUM
19. SECONDARY SCUM
20. CONTACT TANK SCUM
21. EFFLUENT WATER
22. DRYING BED FEED
23. FLUSHING DRAIN
24. ALTERNATE FEED
25. VACUUM FILTER FEED
27. DECANTING
28. DRAIN
29. UNVALVED OVERFLOW

PUMPS	PRIMARY	ALTERNATE
PRIMARY SLUDGE / GRIT	PS1 - PS2 - PS3	DS1 - DS2
PRE THICKENED SLUDGE	TS1 - TS2	TS3 - TS4 - TS5
DIGESTED SLUDGE	DS1 - DS2	TS3 - TS4 - TS5 - TS1 - TS2
POST THICKENED SLUDGE	TS3 - TS4 - TS5	TS1 - TS2
DIGESTER RECIRCULATION	PS2	DS1 - DS2
PRIMARY SCUM	SCM1	TS3
SLUDGE TO VACUUM FILTERS	DS1 - DS2	TS3 - TS4 - TS5

⬡ PRIMARY PIPE USAGE

○ SECONDARY PIPE USAGE

F.C. = FLUSHING CONNECTIONS

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per F.L.D.

NO SCALE

FOR PIPING REVISIONS SEE APPROVED INSTALLATION DRAWINGS

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/16/83
	KLS					
2	FOR CONSTRUCTION				SGB	2-24-78
	AFW/AES	2/24/78	JLS	AFW/DRW		
1	FOR APPROVALS				SGB	3-31-76
	AFW/AS	3-30-76	JLS	AFW/DRW		

PROJECT SUPERVISOR Joel L. Stearns — APPROVED S. G. Brubaker

ONONDAGA COUNTY, NEW YORK

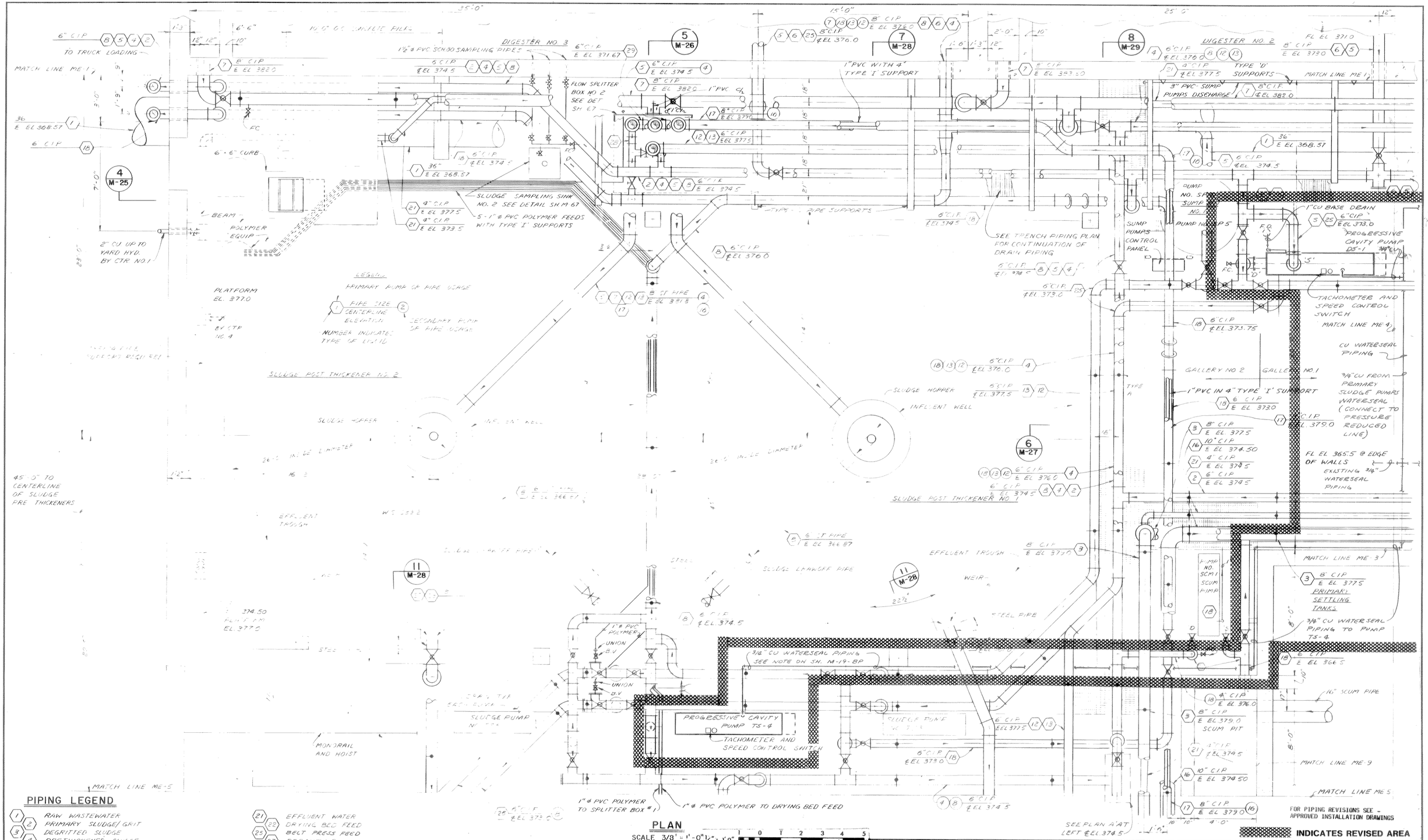
DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
GALLERY NO. 1 & NO. 2
PROCESS PIPING SCHEMATIC

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-21



PIPING LEGEND

1	RAW WASTEWATER
2	PRIMARY SLUDGE/GRIT
3	DEGRITTED SLUDGE
4	PRETHICKENED SLUDGE
5	DIGESTED SLUDGE
6	DIGESTER RECIRCULATION
7	DIGESTER TRANSFER
8	POST THICKENED SLUDGE
12	WASTE SLUDGE (1ST STAGE)
13	WASTE SLUDGE (2ND STAGE)
15	POST THICKENER OVERFLOW
16	AUXILIARY THICKENER MAKEUP
17	THICKENER MAKEUP
18	PRIMARY SCUM
21	EFFLUENT WATER
22	DRYING BED FEED
23	BELT PRESS FEED
27	DECANTING
28	DRAIN
29	UNVALVED OVERFLOW

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-93 Per FLD

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LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD W.L.S.				W.L.S.	9/8/93
1	PRELIMINARY FOR PROPOSAL PK-60 P.R.W.	1-28-91	D.M.	P.R.W.	W.L.S.	4/22/91

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

GALLERY NO. 1 & NO. 2
POST THICKENERS
PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-22-BP

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

TO CENTERLINE OF SLUDGE POST THICKENERS
MATCH LINE ME-5
MATCH LINE ME-6
TUNNEL TO CONTROL BUILDING
RAILING
STEEL PIPE
EFFLUENT TROUGH
WEIR
SLUDGE
TYPE 'E'
INFLUENT WELL
SLUDGE HOPPER
SLUDGE PRE THICKENER NO. 2
SLUDGE PRE THICKENER NO. 1
26'-0" INSIDE DIAMETER
CONCRETE PIER
GRATING
GALLERY NO. 2
GALLERY NO. 3
ELECTRICAL ROOM
SCUM PIT
UNION
B.V.
SLUDGE PUMP NO. TS2
SLUDGE PUMP NO. TS1
SLUDGE DENSITY SENSOR
CORPORATION STOP
TYPE 'F'
CONTROL UNITS SLUDGE DENSITY METERS
OUTLINE OF FLOW SPLITTER BOX NO. 1 - SEE DETAIL SHEET M-68
EXTEND SUMP PUMPS DISCHARGE PIPE TO TOP OF RISER PIPE SUPPORT FROM PIPE
SUMP PUMP DISCHARGE PIPES WITH VALVES AND CHECK VALVES 3" P.V.C.
6" STAND PIPE TERMINATE AT EL. 385.75
SUMP PUMPS - SEE SH. M-4 FOR TYPICAL PIPING
SUMP PUMPS CONTROL PANEL
SUMP PIT
NO. SP7
NO. SP8
1" PVC POLYMER
1" CHLORINE SOLUTION
1" DRAINS
1" ø PVC POLYMER LINES TYPE 'A' SUPPORTS 4'-0" O.C.
1¼" PVC POLYMER
CORPORATION STOP
SLUDGE DENSITY SENSOR
1" ø PVC POLYMER CONNECT TO DRYING BED FEED 22
1" PVC TO SPLITTER BOX NO. 2 WITH 4" TYPE 'I' SUP.
1" PVC TO SPLITTER BOX NO. 1 WITH 4" TYPE 'I' SUP.
ONE IN - TWO OUT CHLORINE SOLUTION DISTRIBUTOR (PROPORTIONING).
2" PVC. WITH TYPE 'I' SUPPORTS
TYPE - J PIPE SUPPORTS NOTE OUTSIDE SUPPORT MEMBER TO EXTEND FROM BOTTOM SUPPORT TO CEILING ONLY (MAINTAIN 7'-0" CLEAR @ LOWEST PIPE)
TYPE 'H' PIPE SUPPORT
PRIMARY SETTLING TANKS
SEE TRENCH PIPING PLAN
10 M-28
9 M-29
5 M-26
7 M-28
8 M-29
6" C.I.P. E EL. 374.5 21
4" C.I.P. E EL. 373.0 9
8" C.I.P. E EL. 363.33 28 27
8" C.I.P. E EL. 381.0 15
6" C.I.P. E EL. 373.0 25 8
6" C.I.P. E EL. 376.0 4
6" C.I.P. E EL. 377.5 13 12
8" C.I.P. E EL. 381.0 14
4" C.I.P. E EL. 366.87 8 5 4
6" C.I.P. E EL. 373.0 22
8" C.I.P. E EL. 379.0 17 16
4" C.I.P. E EL. 374.5 21
6" C.I.P. E EL. 373.0 23
10" C.I.P. E EL. 374.5 16
12" C.I.P. E EL. 381.0 14 15
6" C.I.P. E EL. 376.0 12 13
8" C.I.P. E EL. 376.0 17
4" C.I.P. E EL. 374.5 21
6" C.I.P. E EL. 373.0 22
4" C.I.P. E EL. 381.0 9
6" C.I.P. E EL. 374.5 21
4" C.I.P. E EL. 373.0 9
6" ST. PIPE E EL. 366.87 4
8" ST. PIPE E EL. 381.8 3 12 13 17
10'-8"
14'-0"
10'-0" MAXIMUM SPAN
45'-0"
12'-0"
3'-3"
22'-3"
17'-0"
9'-0"
1'-2"
20'-4"
28'-0"
20'-6"
FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

3	DEGRITTED SLUDGE
4 5	PRETHICKENED SLUDGE
8 9	DIGESTED SLUDGE
12 13	POST THICKENED SLUDGE
14 15	VACUUM FILTRATE
16 17	WASTE SLUDGE (1ST STAGE)
	WASTE SLUDGE (2ND STAGE)
	PRETHICKENER OVERFLOW
	POST THICKENER OVERFLOW
	AUXILIARY THICKENER MAKEUP
	THICKENER MAKEUP

21	EFFLUENT WATER
22	DRYING BED FEED
23	FLUSHING DRAIN
25	VACUUM FILTER FEED
27	DECANTING
28	DRAIN
29	UNVALVED OVERFLOW

PLAN
SCALE 3/8" = 1'-0"

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

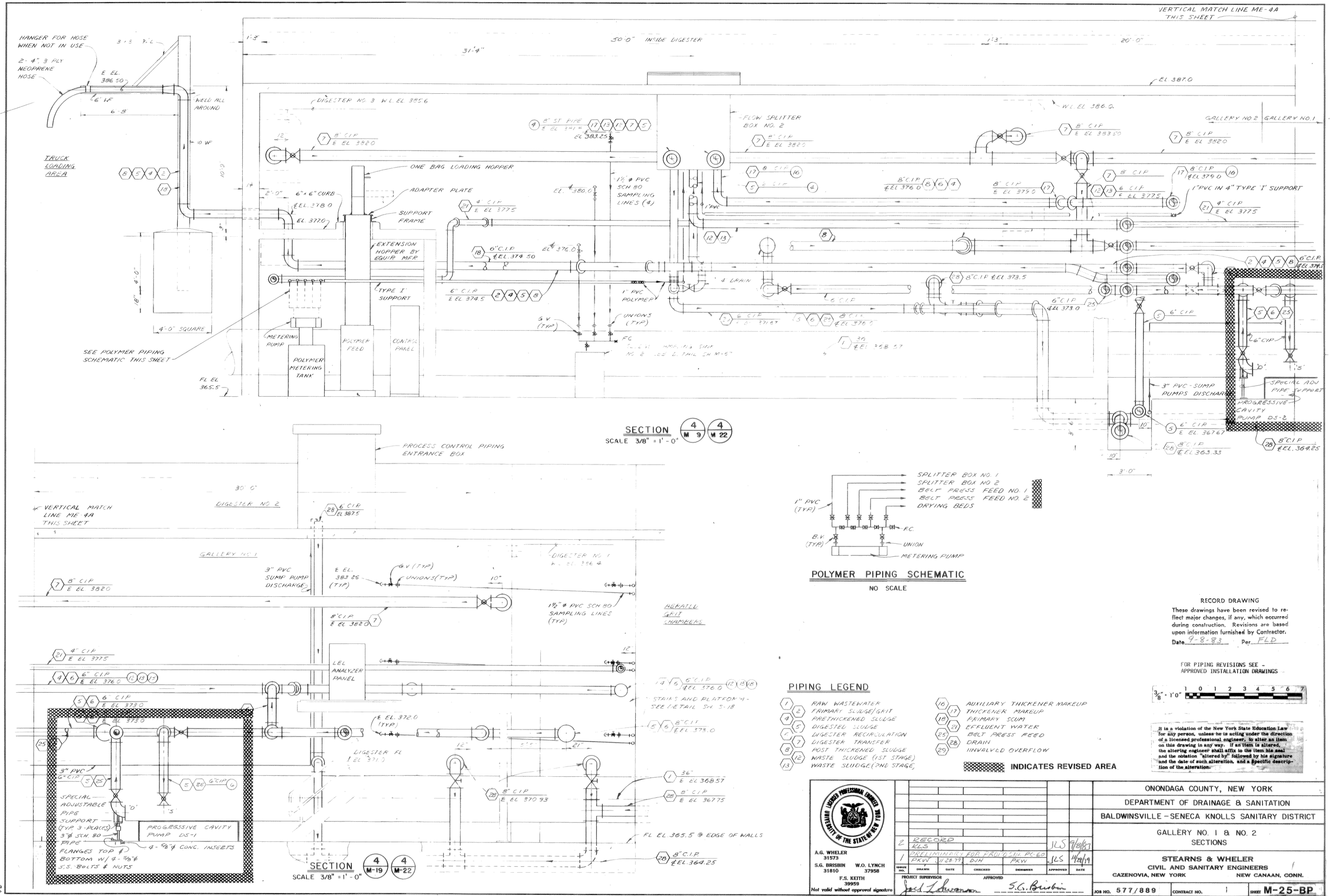
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD WLS				J.L.S	9/8/83
2	FOR CONSTRUCTION AFW/AES	2/24/78	J.L.S	AFW/PKW	S.G.B	2-24-78
1	FOR APPROVALS AFW/AES	3-30-76	J.L.S	AFW/PKW	S.G.B	3-31-76

PROJECT SUPERVISOR John L. Swanson
APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
GALLERY NO. 2
PRETHICKENERS
PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-23



PIPING LEGEND

1	RAW WASTEWATER
2	PRIMARY SLUDGE/GRIT
4	PRETHICKENED SLUDGE
5	DIGESTED SLUDGE
6	DIGESTER RECIRCULATION
7	DIGESTER TRANSFER
8	POST THICKENED SLUDGE
12	WASTE SLUDGE (1ST STAGE)
13	WASTE SLUDGE (2ND STAGE)
16	AUXILIARY THICKENER MAKEUP
17	THICKENER MAKEUP
18	PRIMARY SCUM
21	EFFLUENT WATER
25	BELT PRESS FEED
28	DRAIN
29	UNVALVED OVERFLOW

INDICATES REVISED AREA

RECORD DRAWING

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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0"

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S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
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NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD JLS				JLS	9/8/83
1	PRELIMINARY FOR PROVISIONAL PC-60 PKW	JU 28 79	DJH	PKW	JLS	11/21/79

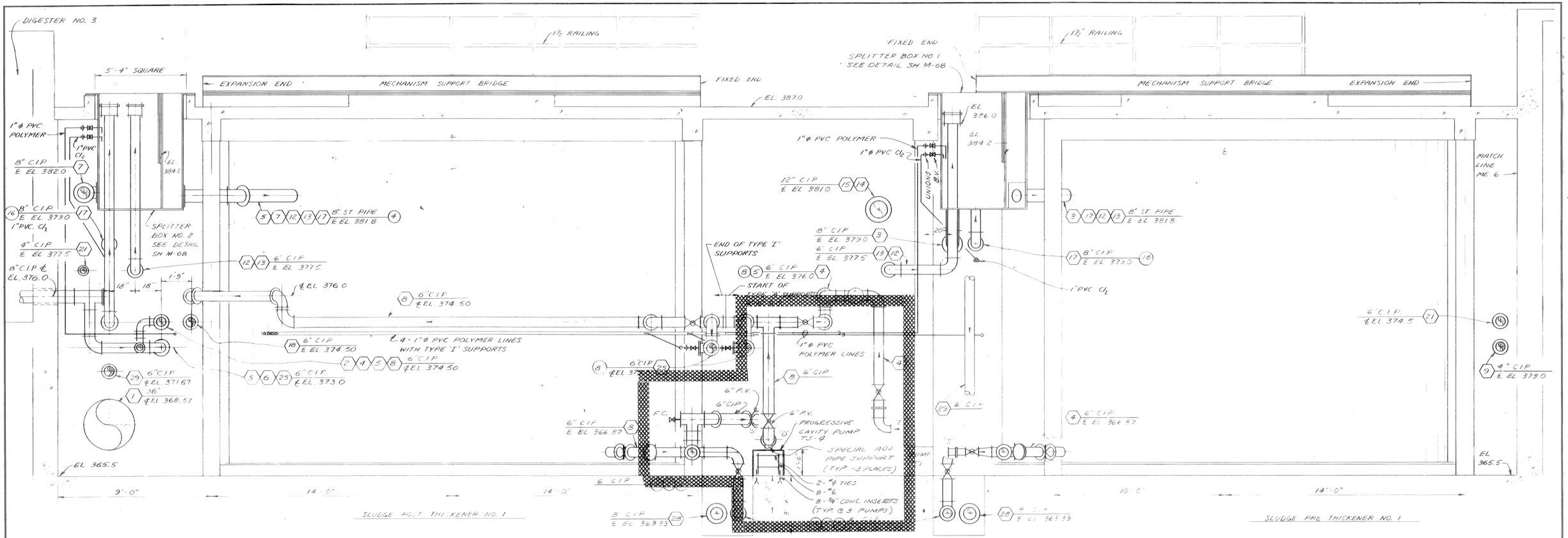
PROJECT SUPERVISOR Joel Lawrence APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

GALLERY NO. 1 & NO. 2
SECTIONS

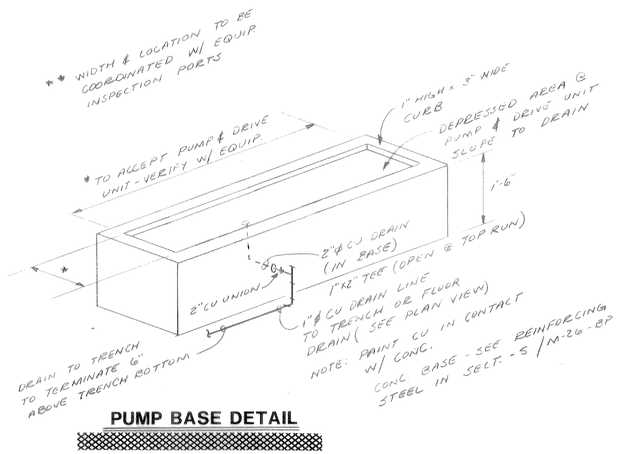
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577/889 | CONTRACT NO. 1 | SHEET M-25-BP



SECTION 5/M-22 5/M-23

SCALE 3/8" = 1'-0"



PUMP BASE DETAIL

PIPING LEGEND

1	RAW WASTEWATER
2	PRIMARY SLUDGE/GRIT
3	DEGRITTED SLUDGE
4	PRETHICKENED SLUDGE
5	DIGESTED SLUDGE
6	DIGESTER RECIRCULATION
7	DIGESTER TRANSFER
8	POST THICKENED SLUDGE
9	VACUUM FILTRATE
12	WASTE SLUDGE (1ST STAGE)
13	WASTE SLUDGE (2ND STAGE)
14	PRETHICKENER OVERFLOW
15	POST THICKENER OVERFLOW
16	AUXILIARY THICKENER MAKEUP
17	THICKENER MAKEUP
18	PRIMARY SCUM
21	EFFLUENT WATER
25	BELT PRESS FEED
28	DRAIN
29	UNVALVED OVERFLOW

RECORD DRAWING

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Date 9-8-83 Per F.L.D.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

INDICATES REVISED AREA

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD				JLS	9/8/83
1	PRELIMINARY FOR PROPOSAL PC-60 PKW	11/28/79	DJH	PKW	JLS	11/27/79

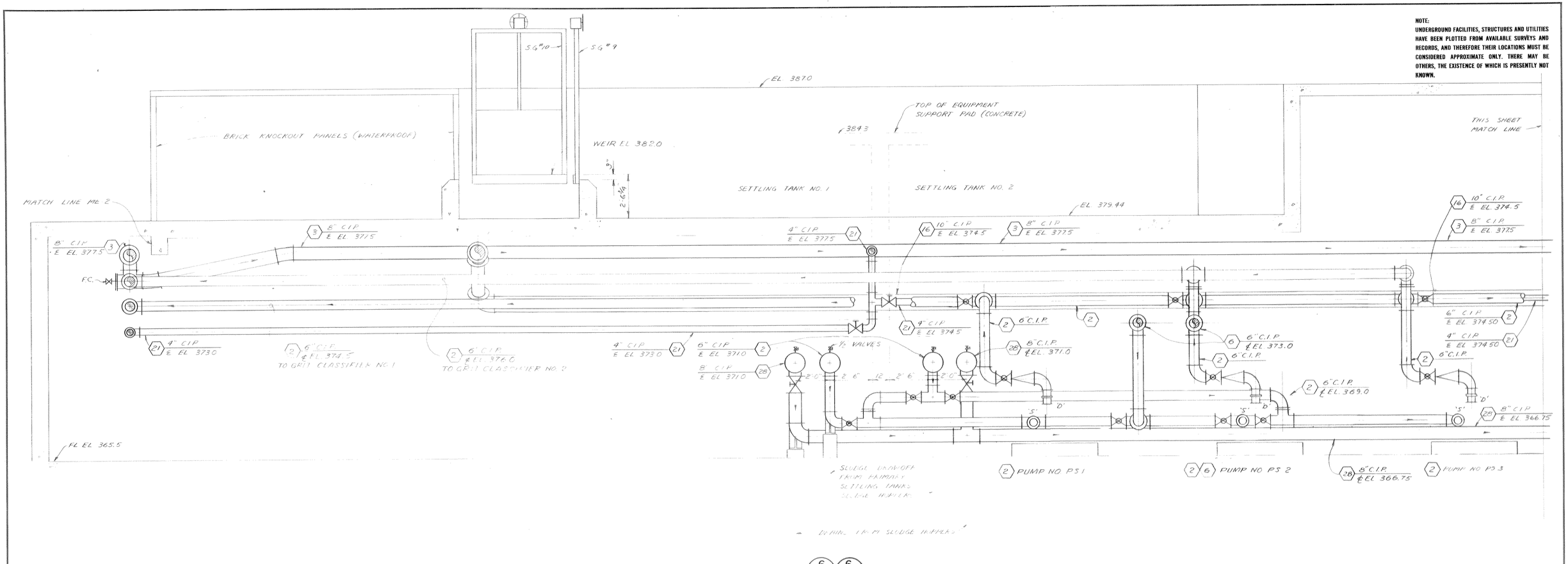
PROJECT SUPERVISOR Joel K. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
GALLERY NO. 2
SECTION

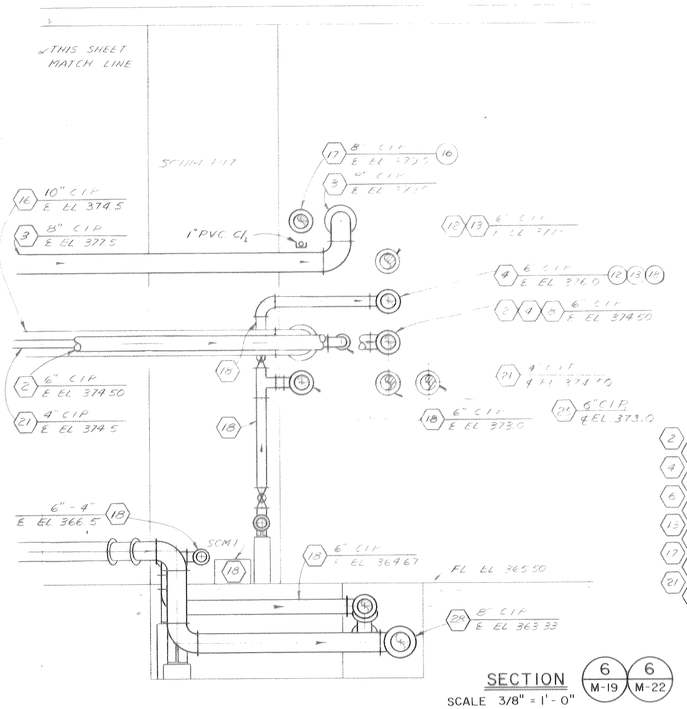
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-26-BP

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION 6/M-19 6/M-22
SCALE 3/8" = 1'-0"



SECTION 6/M-19 6/M-22
SCALE 3/8" = 1'-0"

PIPING LEGEND

2 PRIMARY SLUDGE/GRIT
3 DEGRITTED SLUDGE
4 PRETHICKENED SLUDGE
5 DIGESTED SLUDGE
6 DIGESTER RECIRCULATION
12 WASTE SLUDGE (1ST STAGE)
13 WASTE SLUDGE (2ND STAGE)
16 AUXILIARY THICKENER MAKEUP
17 THICKENER MAKEUP
19 PRIMARY SCUM
21 EFFLUENT WATER
28 DRAIN

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per F.L.D.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

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STERLING G. ELLISON J1810 LICENSED PROFESSIONAL ENGINEER OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/8/83
2	FOR CONSTRUCTION AFW/AES	4/24/78	JLS	AFW	SGB	2-24-78
1	FOR APPROVALS AFW/AS	3-30-76	J.L.S.	A.F.W.	S.G.B.	3-31-76

PROJECT SUPERVISOR John L. Swanson APPROVED S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
GALLERY NO. 1
SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-27

DIGESTER NO. 3

EXPANSION END

1" GROUT FOR LEVELING

1½" RAILING

SLUDGE SCRAPER DRIVE MECHANISM NOT SHOWN

MECHANISM SUPPORT BRIDGE

FIXED END

SEAL WITH FLEXIBLE MATERIAL

STEP

MATCH LINE ME-1

MATCH LINE ME-6

13'-5" R.

13'-0" R.

FRP WEIR EL. 383.12

30° V NOTCHES 3" DEEP @ 8" O.C. = 113

12"

EFFLUENT TROUGH

EFFLUENT BOX

INFLUENT WELL

8" C.I.P. ℄ EL. 382.0

8" C.I.P. ℄ EL. 373.0

4" C.I.P. ℄ EL. 377.5

8" ST. PIPE ℄ EL. 381.8

8" C.I.P. ℄ EL. 379.0

8" C.I.P. ℄ EL. 376.0

6" C.I.P. ℄ EL. 377.5

6" C.I.P. ℄ EL. 374.5

6" C.I.P. ℄ EL. 373.0

8" C.I.P. ℄ EL. 374.5

8" C.I.P. ℄ EL. 374.5

6" C.I.P. ℄ EL. 371.67

8" ℄ EL. 378.87

8" ℄ EL. 374.87

8" ℄ EL. 370.87

1" PVC. Cl. 200

1" ø PVC POLYMER STEEL PIPE

2⅝" ø HOLES IN WEIR PLATE WITH ½" ø S.S. HEX BOLTS, WASHERS, NUTS AND 3" ø FRP WASHERS

24" O.C.

NEOPRENE GASKET

CONCRETE FILL

SLUDGE SCRAPER MECHANISM NOT SHOWN

PUMP BYPASS

SLUDGE PUMP NO. TS 3

FL EL 365.5

23'-0"

14'-7"

13'-11"

17'-0"

3'-0"

10'-6"

3'-0"

SLUDGE POST THICKENER NO. 1

SLUDGE PRE THICKENER NO. 1

SECTION (7 M-22 / 1 M-23)

SCALE 3/8" = 1'-0"

SECTION (11 M-22)

SCALE 3/8" = 1'-0"

NOTE: PIPES (27)(28) ARE TYPICAL OF SLUDGE POST THICKENER NO. 1 + NO. 2

SECTION (10 M-23)

SCALE 3/8" = 1'-0"

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

1, 2	RAW WASTEWATER
3, 4	PRIMARY SLUDGE/GRIT
5, 6	DEGRITTED SLUDGE
7, 8	PRETHICKENED SLUDGE
9, 12	DIGESTED SLUDGE
13, 14	DIGESTER RECIRCULATION
15, 16	DIGESTER TRANSFER
17, 18	POST THICKENED SLUDGE
21	VACUUM FILTRATE
25	WASTE SLUDGE (1ST STAGE)
27	WASTE SLUDGE (2ND STAGE)
28	PRETHICKENER OVERFLOW
29	POST THICKENER OVERFLOW
	AUXILIARY THICKENER MAKEUP

17, 18	THICKENER MAKEUP
21	PRIMARY SCUM
25	EFFLUENT WATER
27	VACUUM FILTER FEED
28	DECANTING
29	DRAIN
	UNVALVED OVERFLOW

RECORD DRAWING

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Date 9-8-83 Per FLD

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

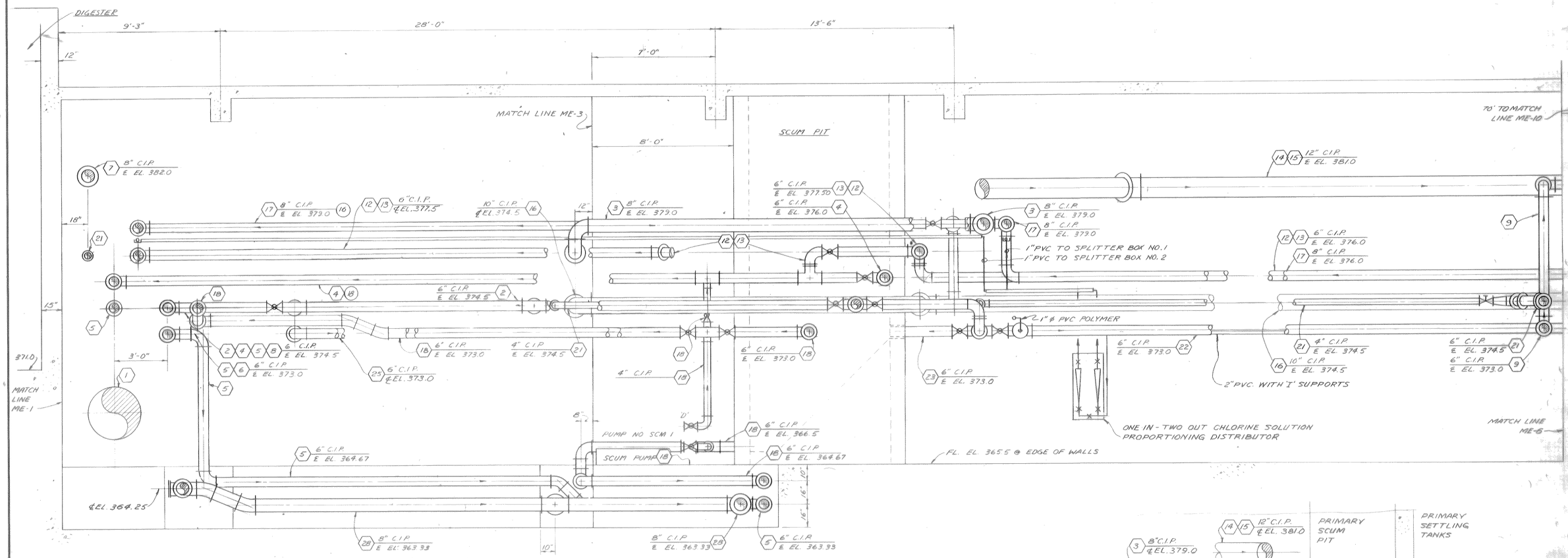
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					
	J.L.S.				J.L.S.	9/8/83
2	FOR CONSTRUCTION					
	AFW/AES	2/24/78	J.L.S.	AFW	S.G.B.	2-24-78
1	FOR APPROVALS					
	AFW/AES	9-30-76	J.L.S.	AFW	S.G.B.	9-30-76

PROJECT SUPERVISOR: Joel L. Swanson — APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
GALLERY NO. 2
SECTION

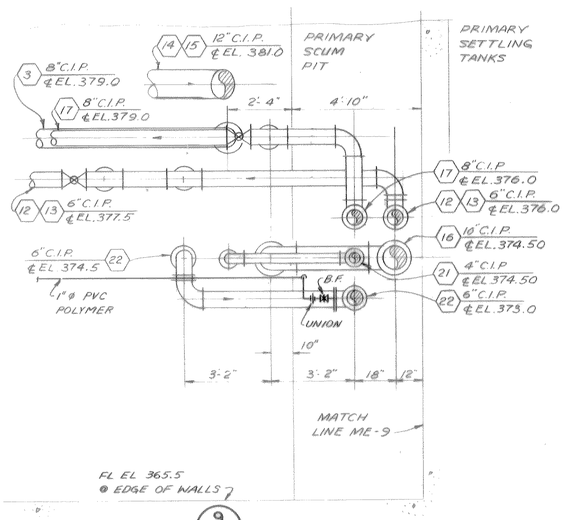
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-28



SECTION 8 M-22 / 8 M-23

SCALE 3/8" = 1'-0"



SECTION 9 M-23

SCALE 3/8" = 1'-0"

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

1, 2	RAW WASTEWATER
3, 4	PRIMARY SLUDGE/GRIT
5, 6	DEGRITTED SLUDGE
7, 8	PRETHICKENED SLUDGE
9, 12	DIGESTED SLUDGE
13, 14	DIGESTER RECIRCULATION
15, 16	DIGESTER TRANSFER
17, 18	POST THICKENED SLUDGE
21, 22	VACUUM FILTRATE
23, 26	WASTE SLUDGE (1ST STAGE)
28	WASTE SLUDGE (2ND STAGE)
	PRETHICKENER OVERFLOW
	POST THICKENER OVERFLOW
	AUXILIARY THICKENER MAKEUP
	THICKENER MAKEUP
	PRIMARY SCUM
	EFFLUENT WATER
	DRYING BED FEED
	FLUSHING DRAIN
	VACUUM FILTER FEED
	DRAIN

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD KLS				JLS	9/6/83
2	FOR CONSTRUCTION AFW/JES	9/24/78	JLS	AFW	SAB	2-24-78
1	FOR APPROVAL A.F.W.	3-30-78	J.L.S.	A.F.W.	SAB	3/31/78

PROJECT SUPERVISOR Joel L. Silverman APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
GALLERY NO. 2
SECTION

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-29

NOTE:
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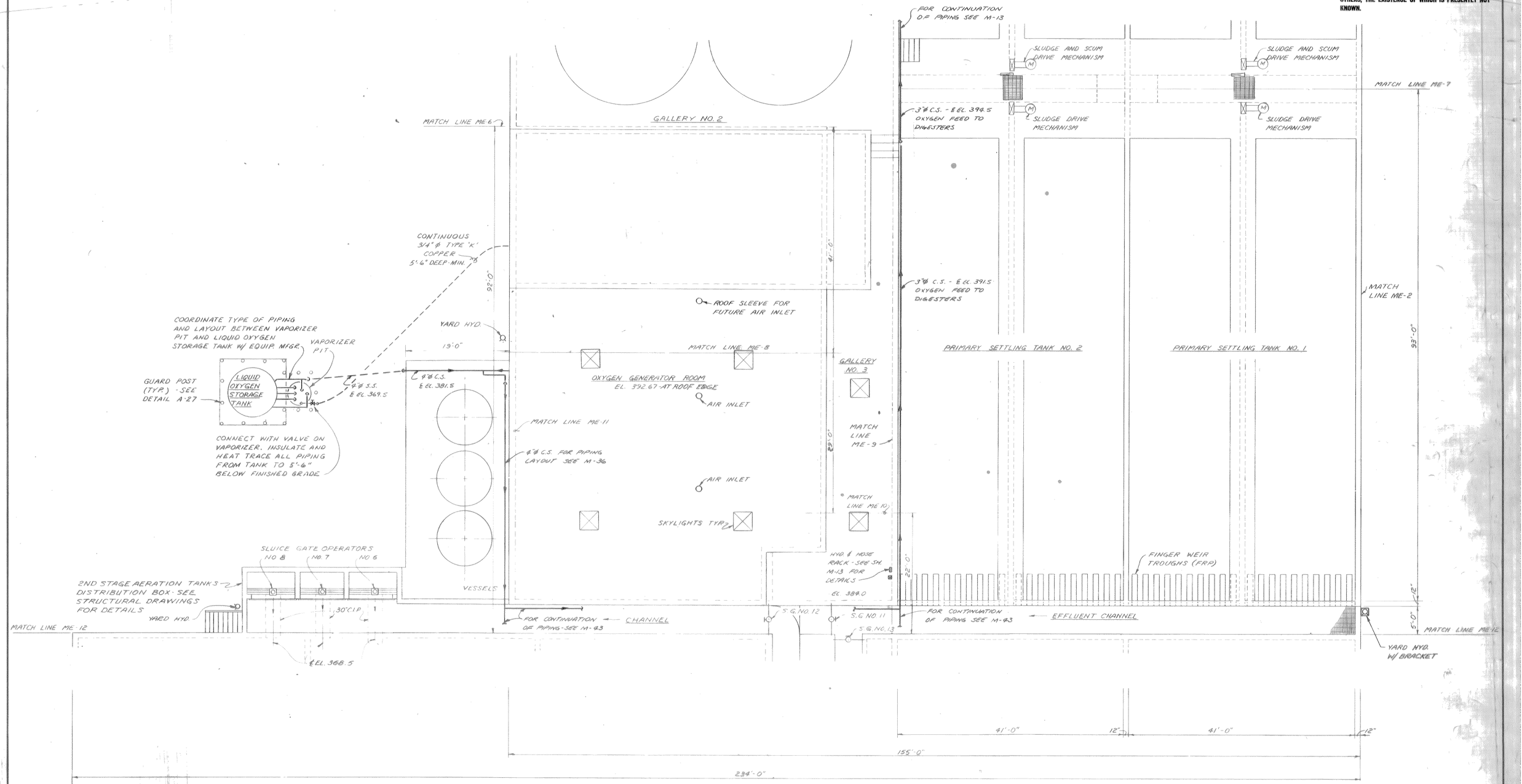

PLAN
SCALE 1/8" = 1'-0"

1/8" = 1'0" 8 4 0 8 16

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JLS				JLS	9/6/83
2	FOR CONSTRUCTION PKW/AFW	2/24/78	JLS	PKW/AFW	SCB	2-24-78
1	FOR APPROVALS PKW/AFW	3-30-76	JLS	PKW/AFW	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GENERATION ROOF & PRIMARY SETTLING TANKS - UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-30

NOTE:
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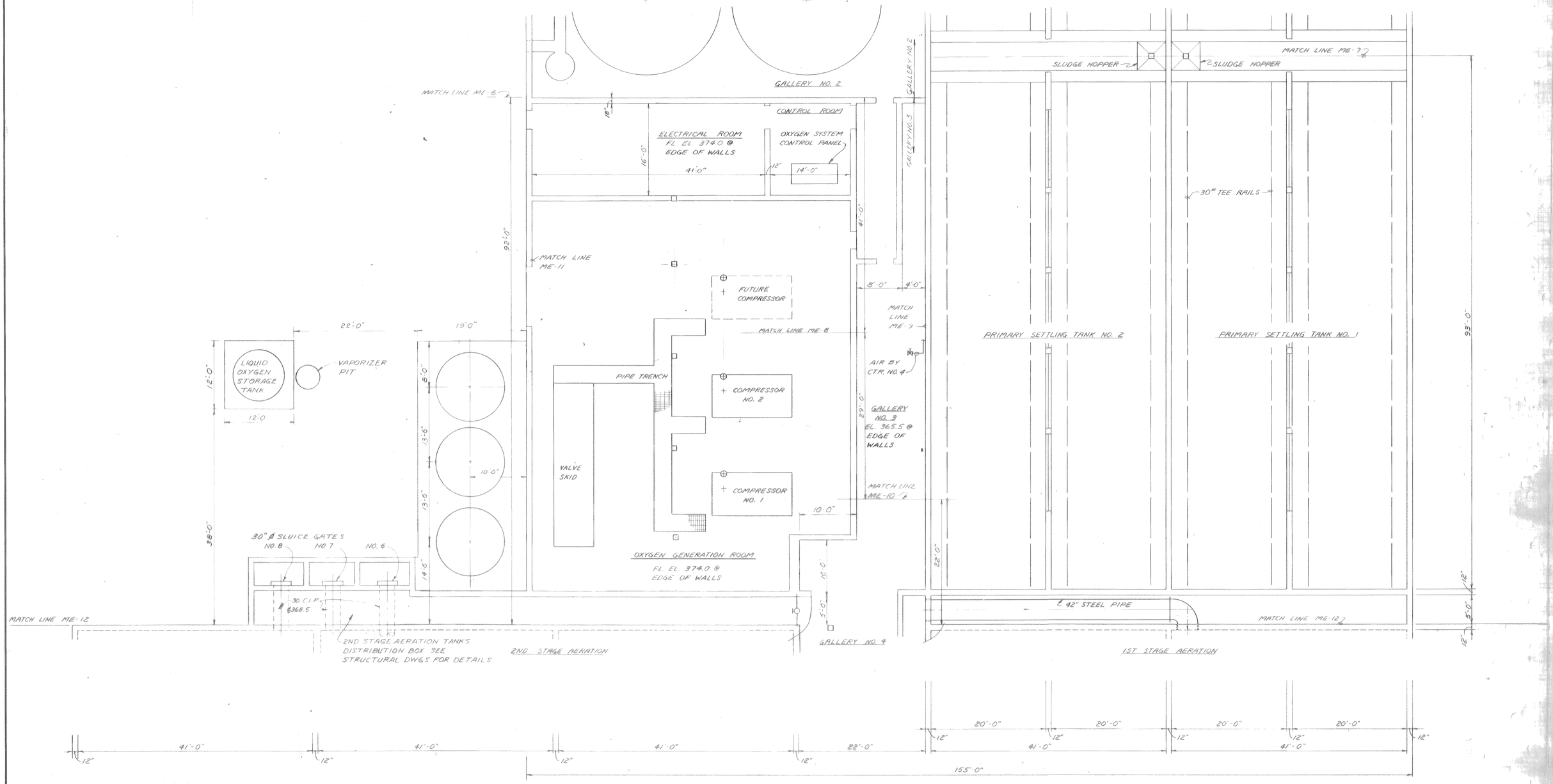

PLAN
SCALE 1/8" = 1'-0"

1/8" = 1'0" 8 4 0 8 16

RECORD DRAWING
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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD	KLS			JLS	SGB	9/8/83
2	FOR CONSTRUCTION	AFW/AES	2/24/78	JLS	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS	AFW/AES	3-30-76	JLS	AFW/PKW	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Sullivan
APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GENERATION - ROOF & PRIMARY SETTLING TANKS - LOWER PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-31

NOTE:
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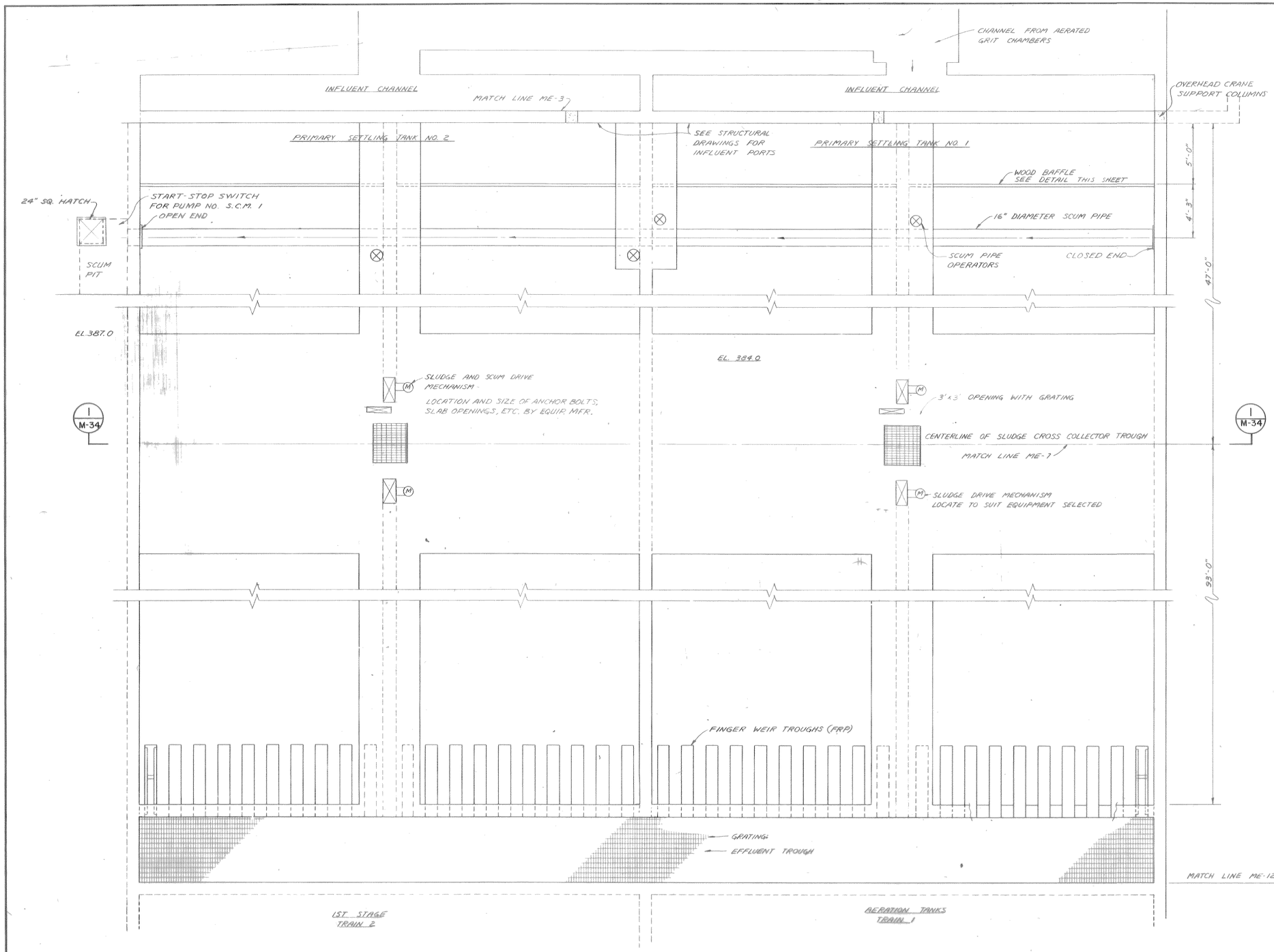

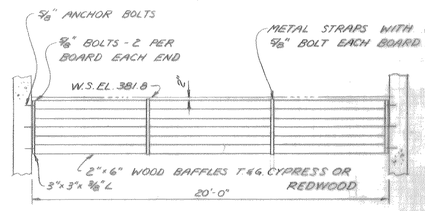

WOOD BAFFLE DETAIL
SCALE 1/4" = 1'-0"

PLAN
SCALE 1/4" = 1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

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Date 9-8-83 Per F.I.D.

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LICENSED PROFESSIONAL ENGINEER THE UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

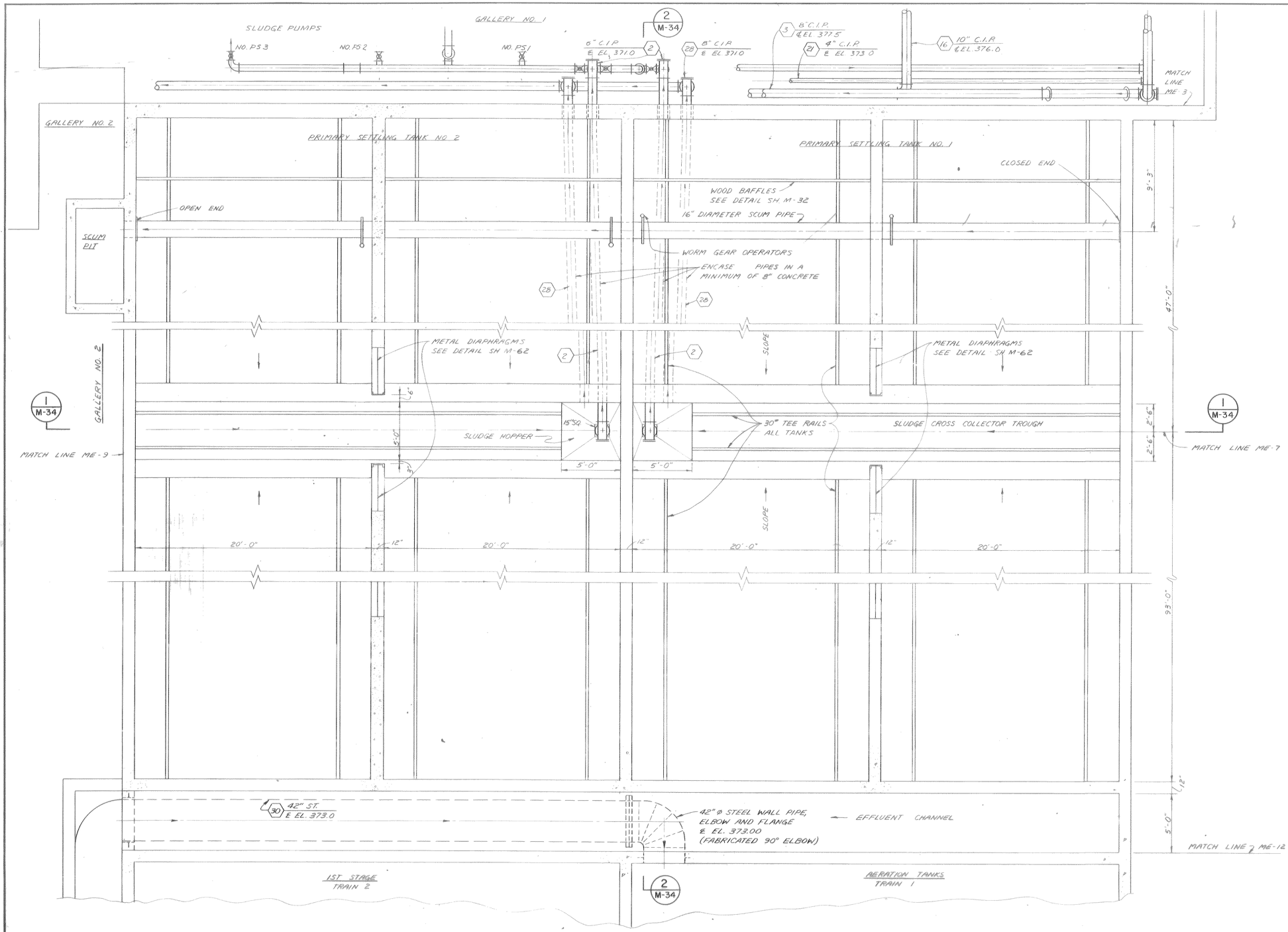
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD					LS	9/9/83
2	AEF FOR CONSTRUCTION	MJNJAES	2/24/78	J.L.S.	A.F.W.	SGB	2-24-78
1	FOR APPROVALS	A.F.W./A.S.	3-30-76	J.L.S.	A.F.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
PRIMARY SETTLING TANKS
UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-32



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PIPING LEGEND

- 2 PRIMARY SLUDGE/GRIT
- 3 DEGGRITTED SLUDGE
- 16 AUXILIARY THICKENER MAKE-UP
- 21 EFFLUENT WATER
- 28 DRAIN
- 30 1ST STAGE AERATION TANK TRAIN NO. 1 FEED

PLAN

SCALE 1/4" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

1/4"= 1'0" 2 0 2 4 6 8 10

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				J.L.S	9/8/83
2	FOR CONSTRUCTION				S.G.B	2-24-78
1	FOR APPROVALS				S.G.B	3-31-76
	A.F.W./A.S	3-30-76	J.L.S.	A.F.W.		

PROJECT SUPERVISOR: J. L. Swanson
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
PRIMARY SETTLING TANKS
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-33

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

NOTE:
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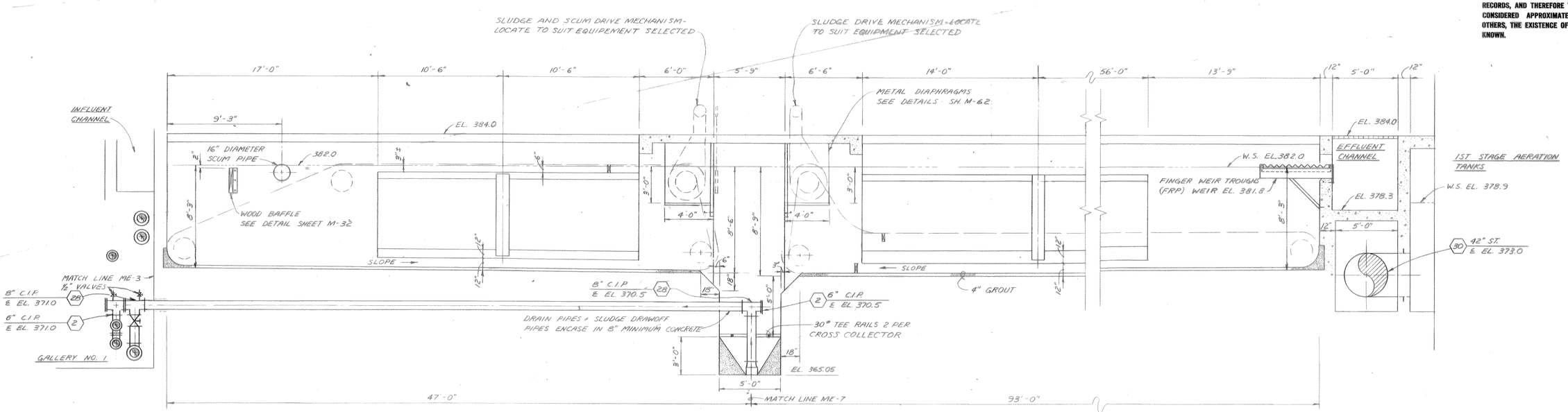
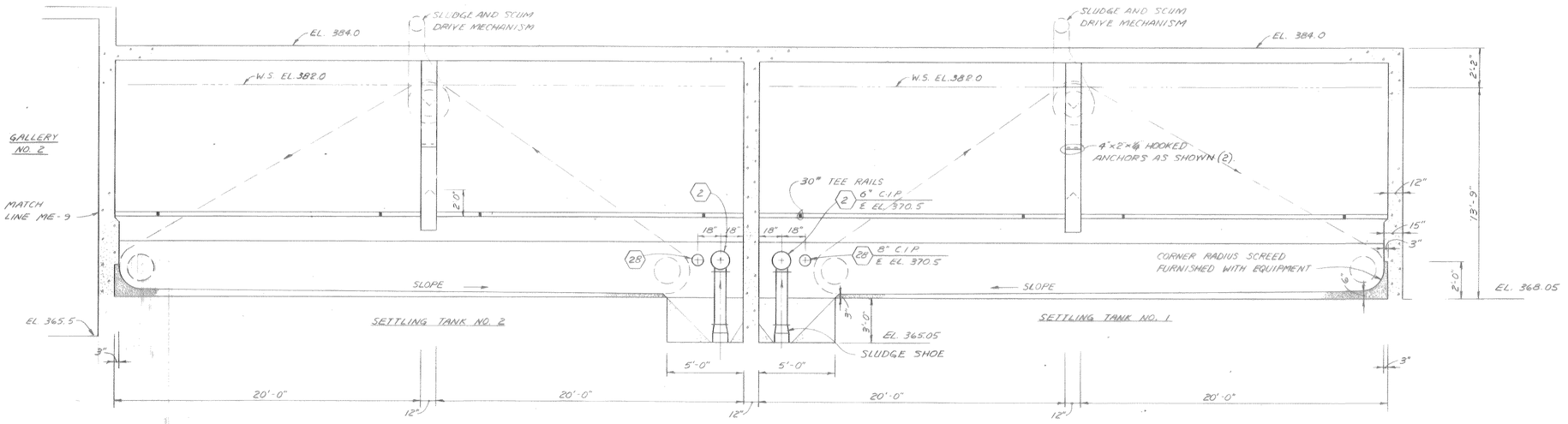


SECTION (2 / M-33)
SCALE 1/4" = 1'-0"



SECTION (1 / M-32 — 1 / M-33)
SCALE 1/4" = 1'-0"

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(2) (28) (30) PRIMARY SLUDGE/GRIT DRAIN 1ST STAGE AERATION TANK TRAIN NO. 1 FEED

RECORD DRAWING
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Date 9-8-83 By FLD

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION AFW/JES	8/24/78	JLS	AFW	SGB	8-24-78
1	FOR APPROVALS AFW/JES	3-30-76	JLS	AFW	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Sweno — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
PRIMARY SETTLING TANKS
SECTIONS
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-34

NOTE:
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MATCH LINE ME-6

GALLERY NO. 2
EL. 365.5 @
EDGE OF WALLS

SEE SHEET M-23 FOR CONTINUATION OF PIPING, ETC.

16
12 13
15 14
22
21
17
9

EL 374.0 @
EDGE OF WALLS

DOWN

TYPE-J PIPE SUPPORT SEE NOTE M-23

3/4" POTABLE C.W. BY CTR. NO. 1

CTR. NO. 4 TO TERMINATE WITH VALVE AT 4' ABOVE FLOOR

TO OXYGEN VAPORIZER

3/4"

1½" POTABLE C.W. BY CTR. NO. 4

ELECTRICAL ROOM
EL. 374.0 @
EDGE OF WALLS

CONTROL ROOM

OXYGEN SYSTEM CONTROL PANEL

14" x 14" COL.

8'-0" WORK BENCH

24" SHELVES

8'-0" SHELVES

18" SHELVES

WIRE CAGE STORAGE AREA

3' SWING DOOR

INSTRUMENT AIR PACKAGE

12" SHELVES

12'-0"

2
M-37

H+V DUCT
BMH 11'6"

EL 374.0 @
EDGE OF WALLS

12" C.I.P. ℄ EL. 381.0 (15)(14)

6" C.I.P. ℄ EL. 376.0 (13)(12)

10" C.I.P. ℄ EL. 374.50 (16)

BY CTR. NO. 4

4" C.I.P. ℄ EL. 381.0 (9)

8" C.I.P. ℄ EL. 376.0 (17)

6" C.I.P. ℄ EL. 374.5 (21)

6" C.I.P. ℄ EL. 373.0 (22)

OXYGEN GENERATION ROOM

FLOOR EL. 374.0 AT WALLS

8'-6"

MONORAIL

FUTURE COMPRESSOR

F.D.

1" HOSE BIBB AND RACK

PIPE TRENCH W/ GRATING 3' WIDE x 3'.06 DEEP

EXPANSION JOINTS

GALLERY NO 3
EL 365.5 @ EDGE OF WALLS

12'-0"

PRIMARY SETTLING TANKS

41'-0"

28'-0"

10'-6"

12"

MATCH LINE ME-8

51' TO MATCH LINE ME-12

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

PLAN

SCALE 3/8" = 1'-0"

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/6/83
2	FOR CONSTRUCTION				SGB	2-24-78
1	FOR APPROVALS				SGB	3-31-76

PROJECT SUPERVISOR: Jack T. Swanson — APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

OXYGEN GENERATION ROOM
PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-35

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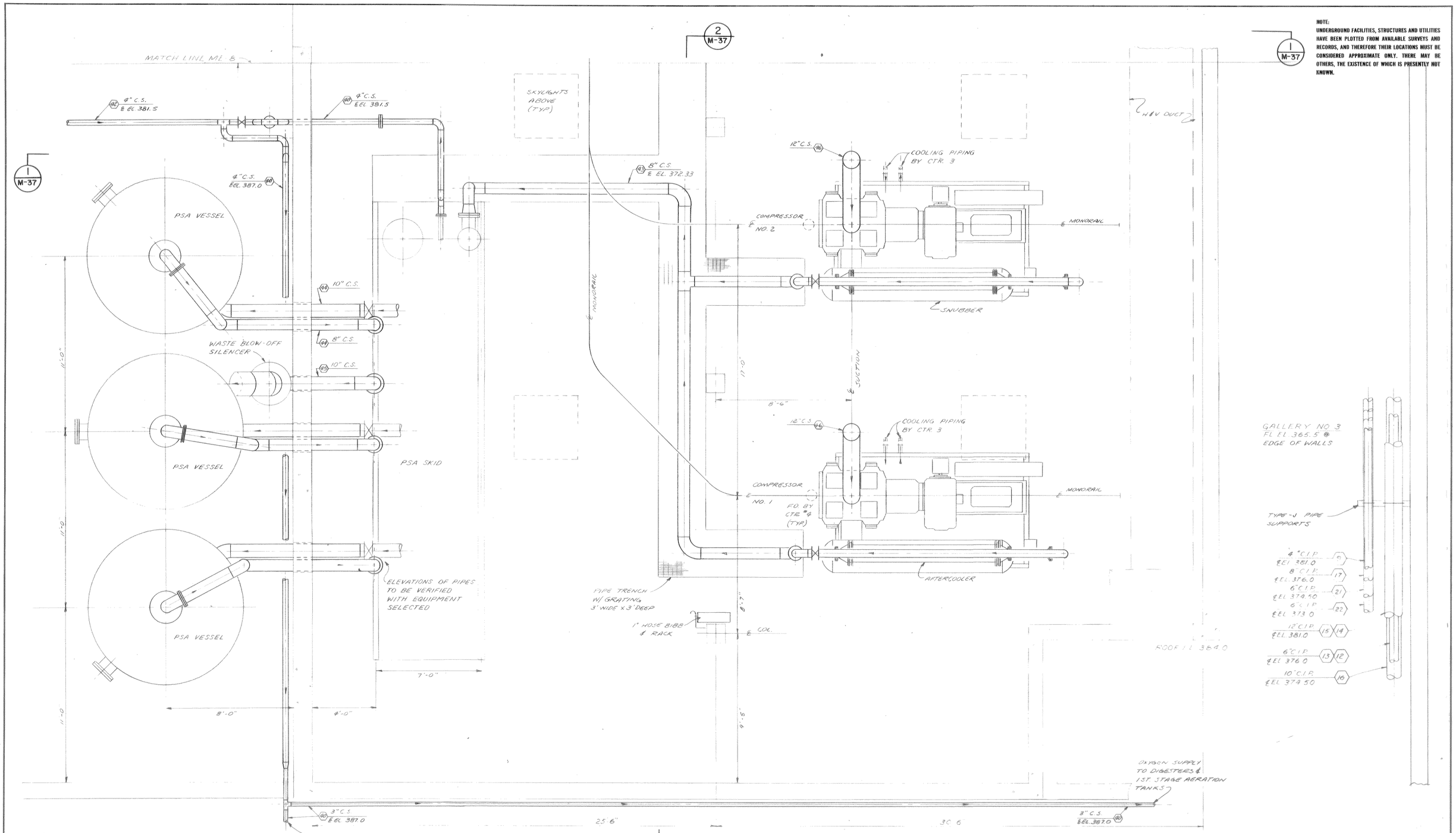

(41) OXYGEN SUPPLY TO DIGESTERS AND TO 1ST AND 2ND STAGE AERATION TANKS
(42) OXYGEN SUPPLY FROM VAPORIZER
(43) AIR FROM COMPRESSOR TO PSA SKID
(44) LOW PRESSURE OXYGEN GAS
(45) BLOW-OFF OXYGEN
(46) AIR SUPPLY TO COMPRESSORS

NOTES
1. ALL VALVING & PIPING SHOWN TO BE COORDINATED W/ EQUIP. MFG. FOR LOCATION, TYPE & QUANTITY
2. ALL PIPE SUPPORTS TO CONFORM TO SPEC. SECT. 20A11 ALL STAINLESS STEEL PIPE & ALL PIPE MOUNTED TO OUTSIDE ARCHITECTURAL FINISH OF OXYGEN GENERATION BLDG. - HANGERS & HARDWARE TO BE STAINLESS STEEL

PLAN
SCALE 3/8"=1'-0"

2 M-37

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION				SAB	2-24-78
	PKW/AFW	12/14/78	JLS	PKW/AFW		
1	FOR APPROVALS				SAB	3-31-76
	PKW/AFW	3-30-76	J.L.S.	PKW/AFW		

PROJECT SUPERVISOR: Jack L. Swanson
APPROVED: S.G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
OXYGEN GENERATION ROOM PLAN
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT
JOB NO. 577 | CONTRACT NO. 1 | SHEET M-36

16

FOR ROOF PENETRATION SEE DETAIL BELOW

MONORAIL

12"C.S. (#6)

EL 384.0

GALLERY NO. 3

COMPRESSOR NO. 2

8"C.S. (#3)

FL EL 374.0

OXYGEN GENERATION ROOM

VERIFY W/ EQUIP MFG. 3'-0"

WASTE BLOW-OFF SILENCER, COORDINATE ADDITIONAL ROOF SUPPO:RT W/ EQUIP. MFG.

S.S. SUPPORT BRACKET & HARDWARE

10"C.S. (#5)

8"C.S. (#4)

PSA VESSEL

FOR CONTINUATION OF PIPING SEE SH. M-30

4" C.S. (#1) & EL. 381.5

4" C.S. (#2) & EL. 381.5

SEPARATOR

AIR SURGE TANK

1/2" DRAIN

10"C.S. (#4)

PSA SKID

EL. 374.0

EL. 373.67

8"C.S. (#3) EEL 372.33

EL. 371.0

BASE SUPPORT FOR WASTE BLOW-OFF SILENCER

NOTE: ALL DRAINS FROM PSA SKID TO BE PIPED TO TRENCH W/ BANDED CUT OUTS IN GRATING FOR PIPES

SECTION 1 / M-36
3/8" = 1'-0"

AIR SUCTION FILTER NO. 2

AIR SUCTION FILTER NO. 1

SUPPORT BRACKET COORDINATE W/ EQUIP. MFG. (TYP.)

COORDINATE SUPPORT BLOCK & ROOF PENETRATIONS W/ DETAILS ON SH. G-19

SLEEVE W/ DOUBLE MECHANICAL SEAL W/ADJ. SIDE DOWN SEE DETAIL SH. G3 (TYP.)

12"ϕ PIPE W/ WATER TIGHT WELDED CAP FOR FUTURE

12"

MONORAIL

12"C.S. (#6)

12"C.S. (#6)

& COMPRESSOR NO. 2

& COMPRESSOR NO. 1

4'-0"

4'-0"

AFTERCOOLER

AFTERCOOLER

FUTURE COMPRESSOR

COOLING PIPING BY CTR. 3

COOLING PIPING BY CTR. 3

SNUBBER

SNUBBER

8"C.S. EEL 372.33 (#3)

8"C.S. EEL 372.33 (#3)

PIPE TRENCH

EL. 371.0

℄ EL 391.0

24"W x 12"H HOLES

℄ EL 388.0

(#1) OXYGEN SUPPLY TO DIGESTERS & TO 1ST & 2ND STAGE AERATION
(#2) OXYGEN SUPPLY FROM VAPORIZER
(#3) AIR FROM COMPRESSORS TO PSA SKID
(#4) OXYGEN PIPING - PSA SKID & VESSEL
(#5) BLOW-OFF OXYGEN
(#6) AIR SUPPLY TO COMPRESSORS SEE NOTES NO. 1 & 2 OF M-36

SECTION 2 / M-35 & 2 / M-36
SCALE 3/8" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per. F.D.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

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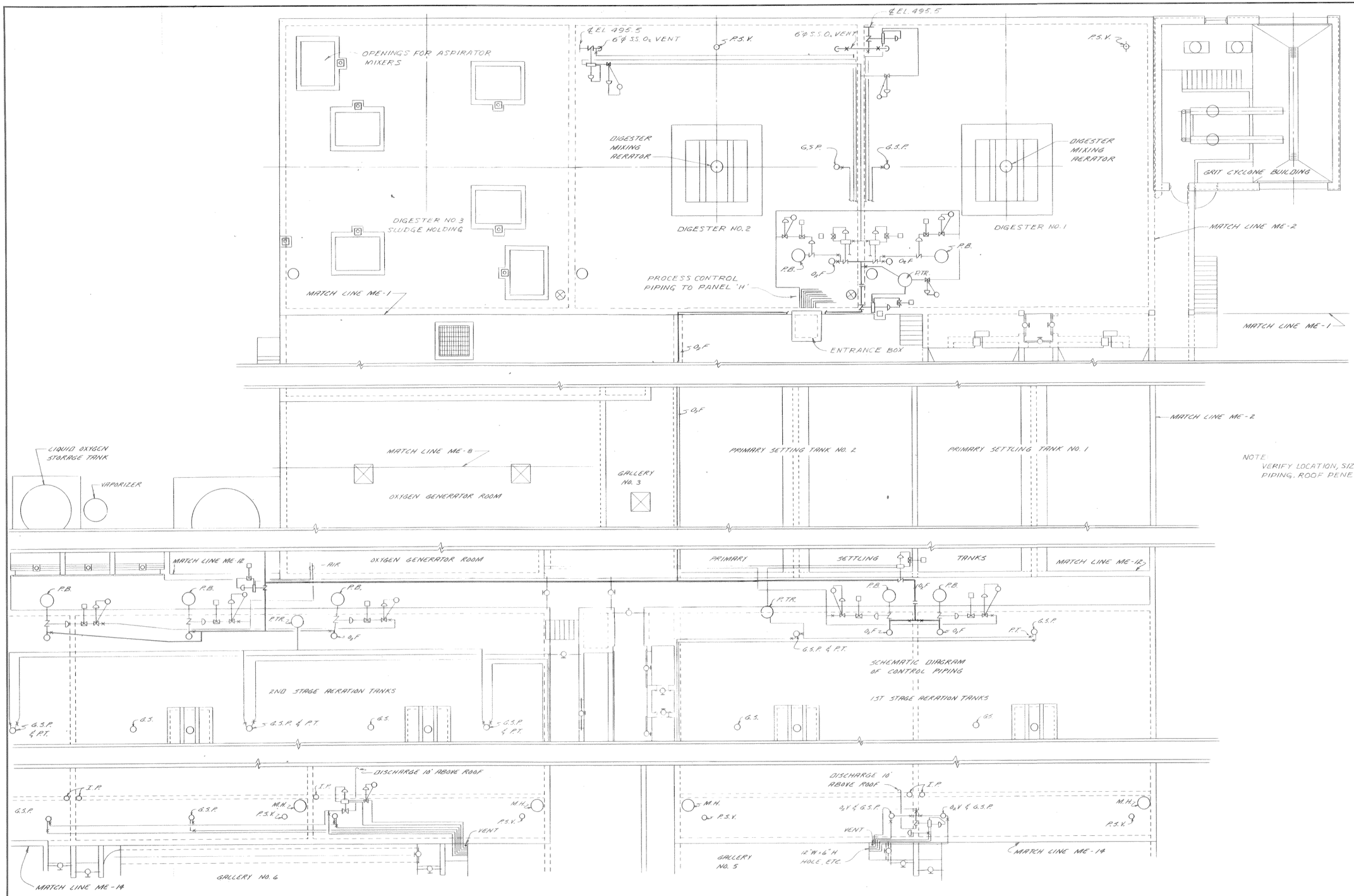
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION				SCB	2-24-78
1	FOR APPROVALS				SCB	3-31-76
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	PKW/AFW	2/24/78	JLS	PKW/AFW		
	PKW/AFW	3-30-76	J.L.S.	PKW/AFW		

PROJECT SUPERVISOR: J. L. Stevenson — APPROVED: S.G. Bristin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
OXYGEN GENERATION ROOM SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-37



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LEGEND

- G.S. - GRAB SAMPLE PORT
- G.S.P. - GAS SAMPLE PORT
- P.S.V. - PRESSURE-VACUUM RELIEF VALVE
- O₂V - OXYGEN VENT
- O₂F - OXYGEN FEED
- P.B. - PURGE BLOWER
- P.T. - PRESSURE TAP
- I.P. - INSPECTION PORT
- M.H. - MANHOLE
- P.TR. - PRESSURE TRANSMITTER

NOTE
VERIFY LOCATION, SIZE, ETC. OF PROCESS CONTROL VALVES, PIPING, ROOF PENETRATIONS WITH EQUIP. SELECTED.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

UPPER PLAN
NO SCALE

RECORD DRAWING
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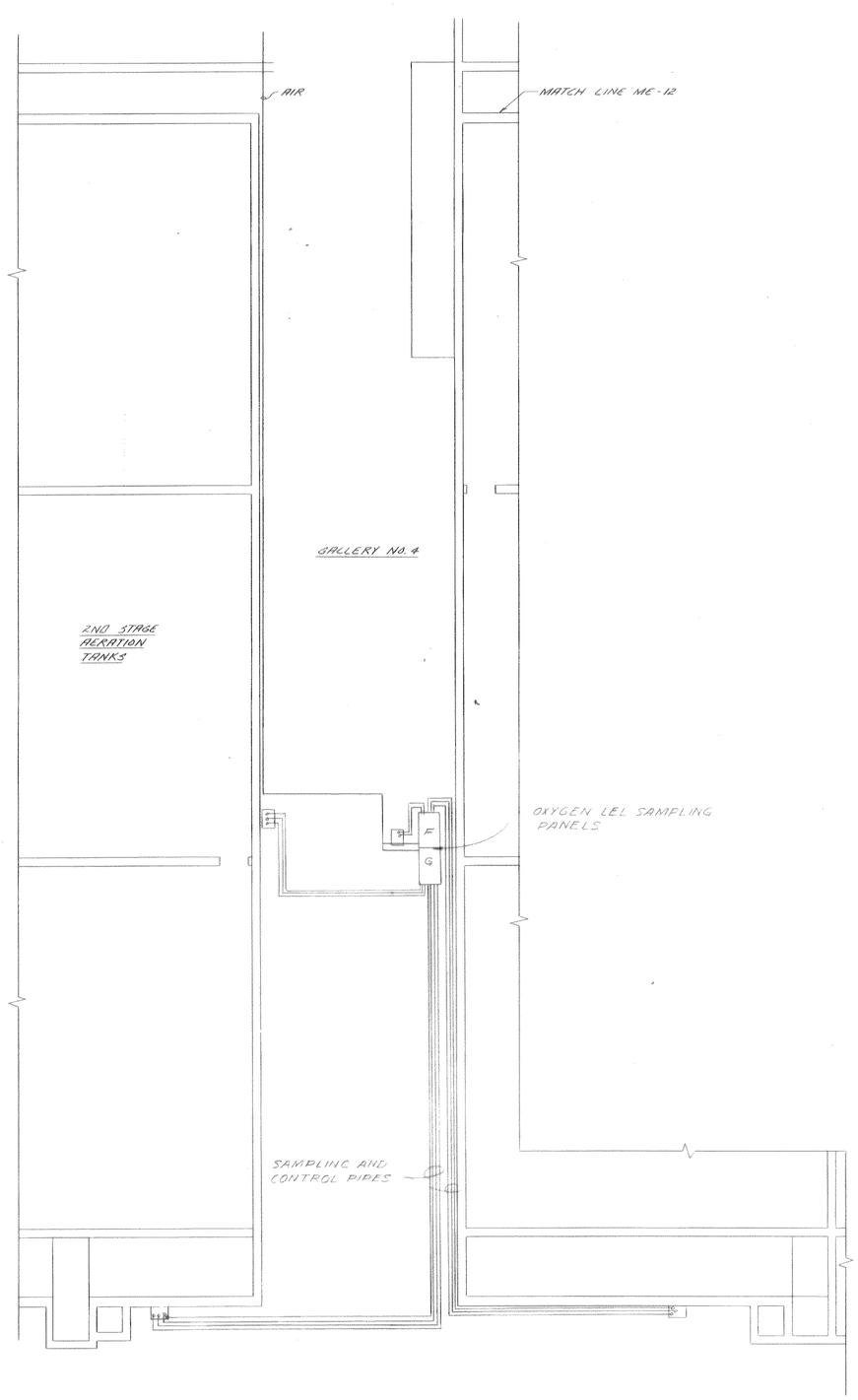
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION				SGB	3-29-78
	BG	2-2-78	JLS	AFW/PKW		
1	FOR APPROVALS				SGB	3-31-76
	B.G.	3-30-76	J.L.S.	A.F.W./P.K.W.		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

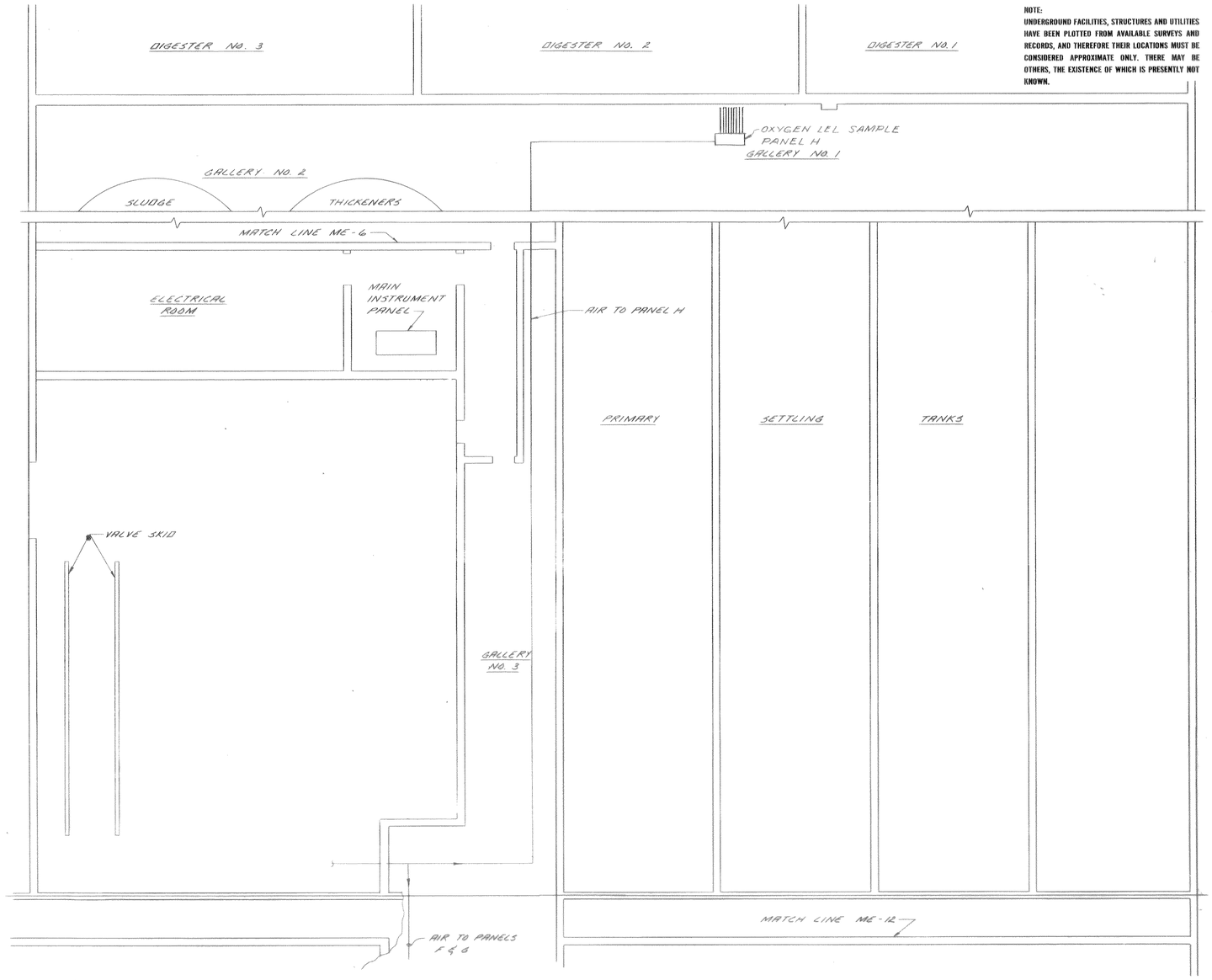
PROJECT SUPERVISOR: Jack L. Stevens
APPROVED: S. G. Bristin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
OXYGEN GENERATION CONTROL PIPING DIAGRAM
UPPER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-38





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LOWER PLAN
NO SCALE

RECORD DRAWING
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Date 9-8-83 Per FLD

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FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER STERLING G. BRISTOL 31810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LLS	9/6/83
2	FOR CONSTRUCTION				SGB	2-24-78
2	BG	1-24-78	JLS	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS				SGB	3-31-76
1	BG	3-30-76	J.L.S.	AFW/PKW	SGB	3-31-76

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
OXYGEN GENERATION CONTROL PIPING DIAGRAM
LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-39

NOTE:
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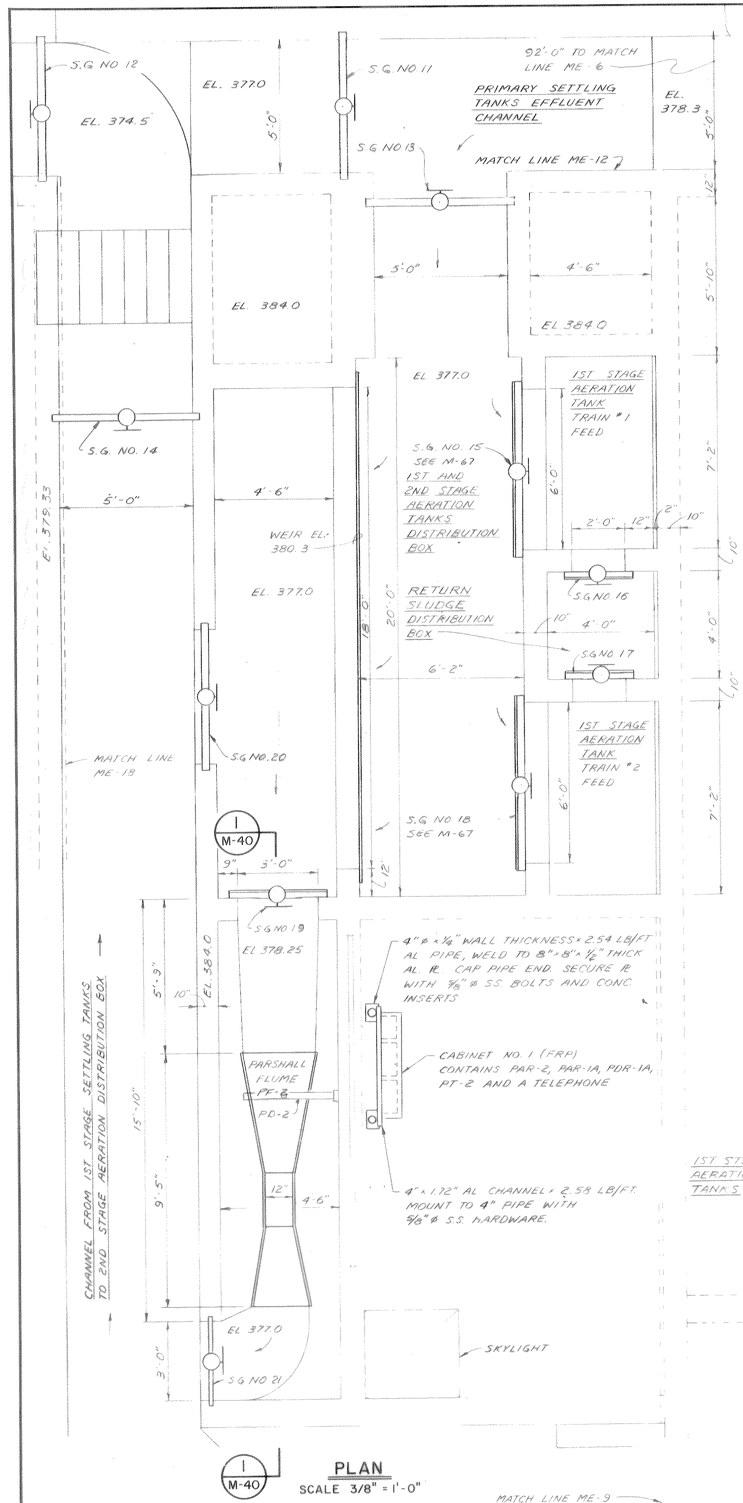
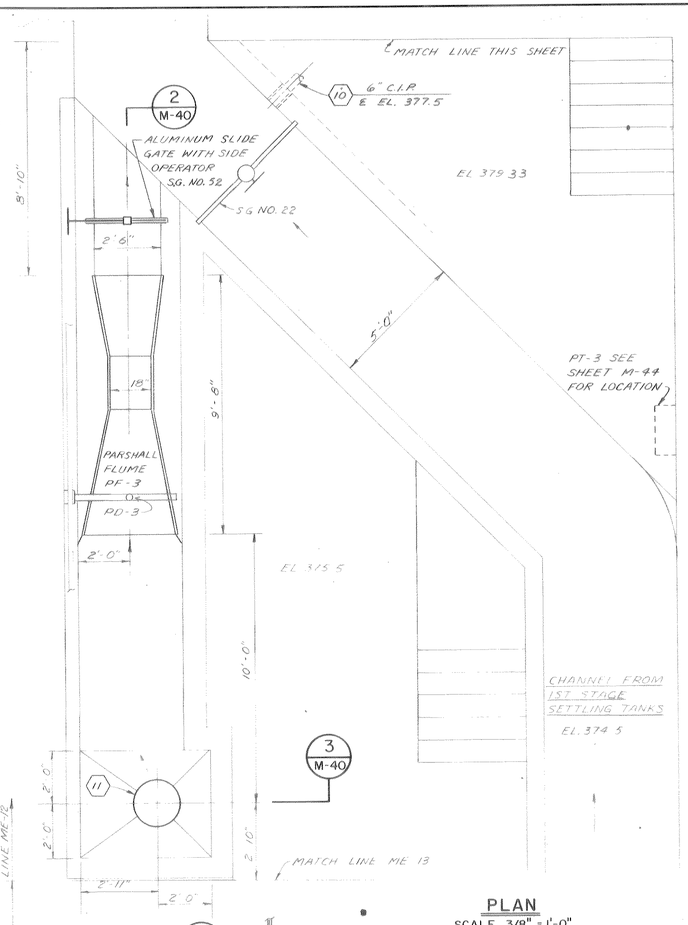
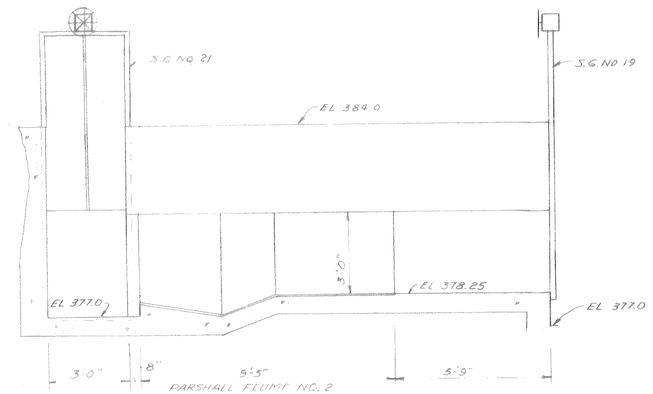
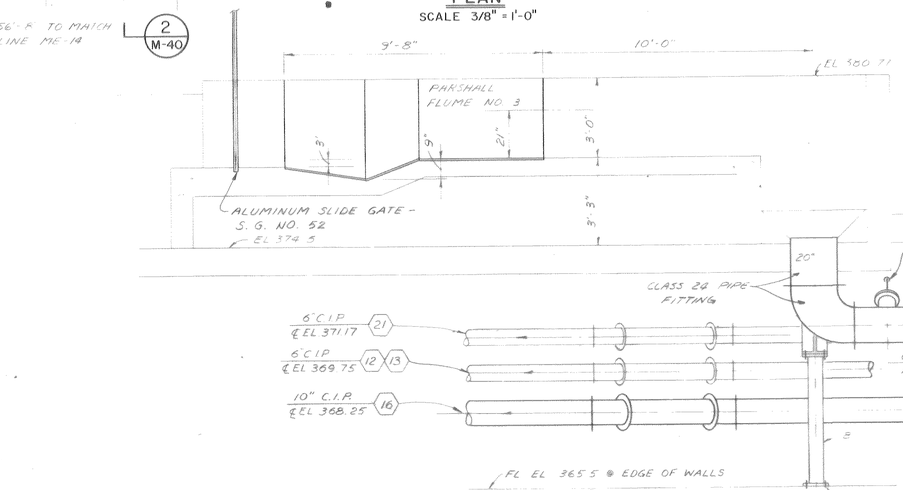


PLAN
SCALE 3/8" = 1'-0"

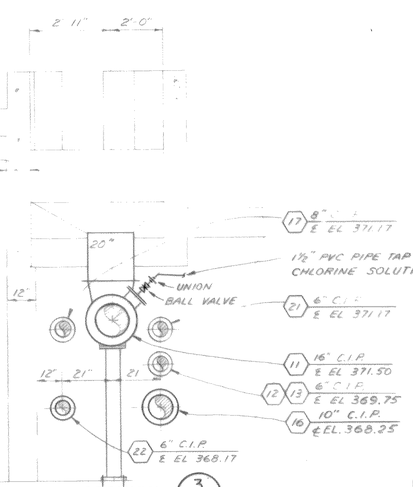




SECTION
SCALE 3/8" = 1'-0"
1 M-40



SECTION
SCALE 3/8" = 1'-0"
2 M-40



SECTION
SCALE 3/8" = 1'-0"
3 M-40

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PLAN
SCALE 3/8" = 1'-0"
1 M-40

PIPING LEGEND

10 11 RETURN SLUDGE (1ST STAGE) / RETURN SLUDGE (2ND STAGE)
12 13 WASTE SLUDGE (1ST STAGE) / WASTE SLUDGE (2ND STAGE)
16 17 AUXILIARY THICKENER MAKE-UP / THICKENER MAKEUP
21 22 EFFLUENT WATER / DRYING BED FEED

RECORD DRAWING
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Date 9-8-83 Per F.L.D.

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/2/83
2	FOR CONSTRUCTION AFW/AES	3/24/76	JLS	AFW/PKW	SGB	2-24-76
1	FOR APPROVALS AFW/AES	3-30-76	J.L.S.	AFW/PKW	SGB	3-31-76

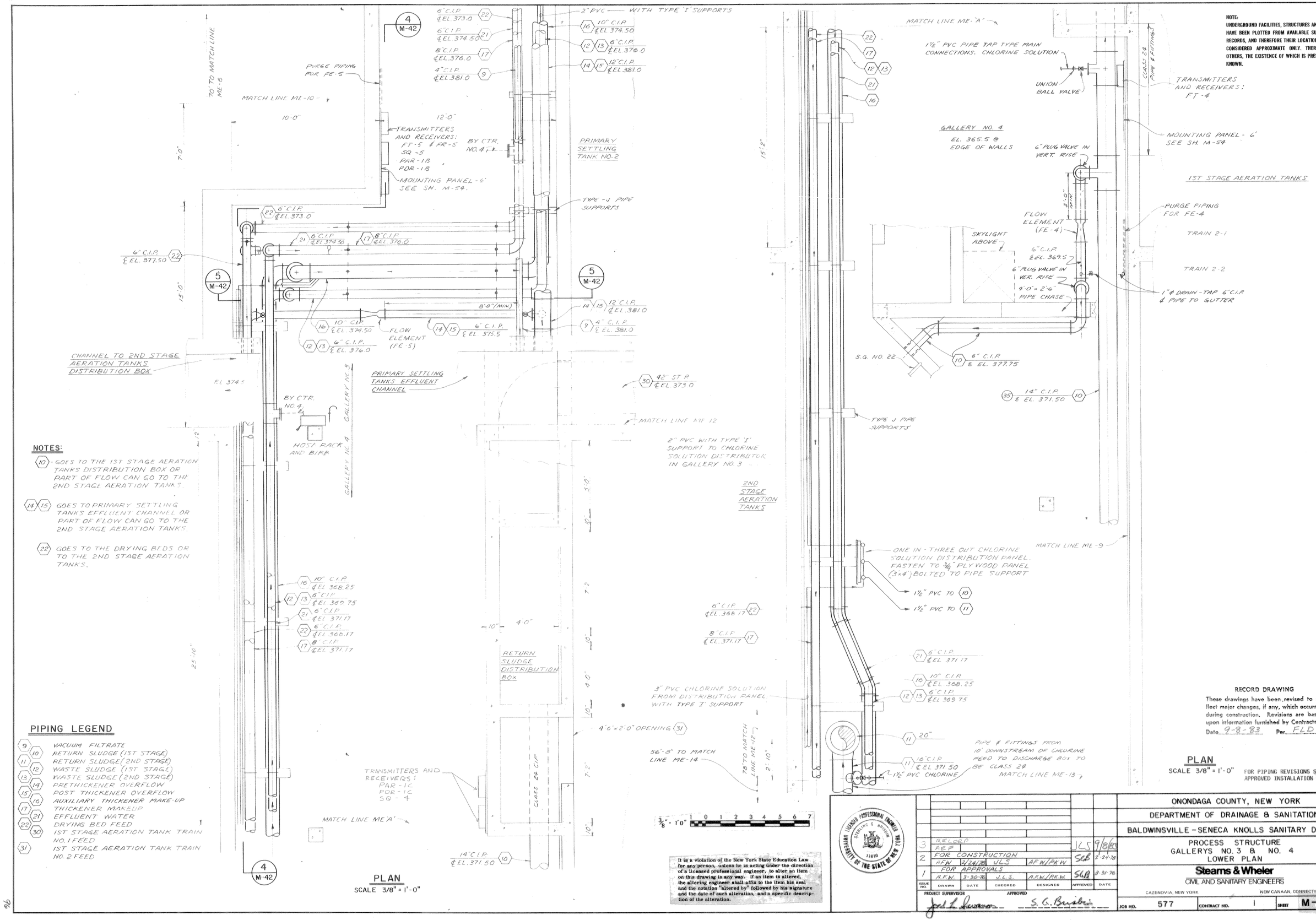
PROJECT SUPERVISOR: Joel L. Stevens — APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE GALLERY NO. 4 UPPER PLAN AND SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-40

56



NOTE:
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NOTES:

(10) - GOES TO THE 1ST STAGE AERATION TANKS DISTRIBUTION BOX OR PART OF FLOW CAN GO TO THE 2ND STAGE AERATION TANKS.

(14)(15) GOES TO PRIMARY SETTLING TANKS EFFLUENT CHANNEL OR PART OF FLOW CAN GO TO THE 2ND STAGE AERATION TANKS.

(22) GOES TO THE DRYING BEDS OR TO THE 2ND STAGE AERATION TANKS.

PIPING LEGEND

9	VACUUM FILTRATE
10	RETURN SLUDGE (1ST STAGE)
11	RETURN SLUDGE (2ND STAGE)
12	WASTE SLUDGE (1ST STAGE)
13	WASTE SLUDGE (2ND STAGE)
14	PRETHICKENER OVERFLOW
15	POST THICKENER OVERFLOW
16	AUXILIARY THICKENER MAKE-UP
17	THICKENER MAKEUP
21	EFFLUENT WATER
22	DRYING BED FEED
30	1ST STAGE AERATION TANK TRAIN NO. 1 FEED
31	1ST STAGE AERATION TANK TRAIN NO. 2 FEED

RECORD DRAWING
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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER — STERLING G. BRISBIN — 31610 — STATE OF NEW YORK

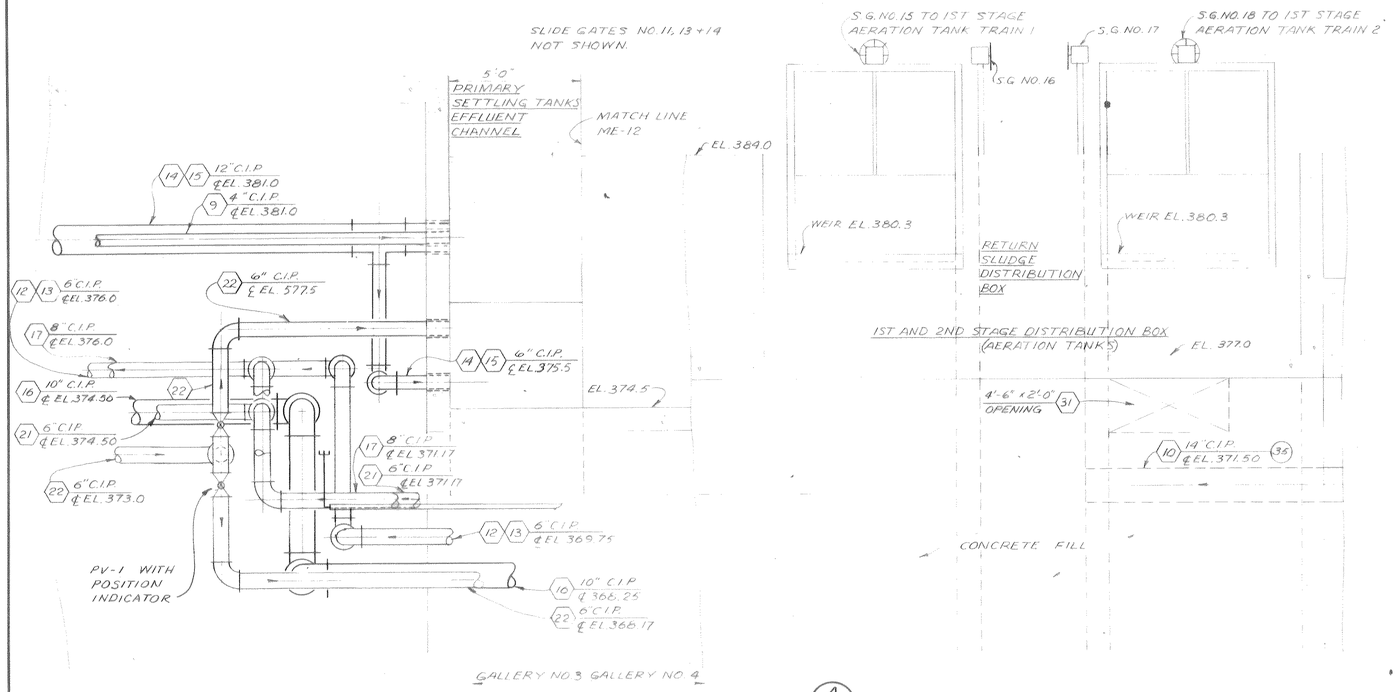
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AEP				JLS	9/8/83
2	FOR CONSTRUCTION			AFW/PKW	SGB	2-24-78
1	AFW	3-24-76	JLS	AFW/PKW	SGB	3-31-76
	AFW	3-30-76	JLS	AFW/PKW	SGB	3-31-76

PROJECT SUPERVISOR: Joel L. Swanson — APPROVED: S. G. Brisbin

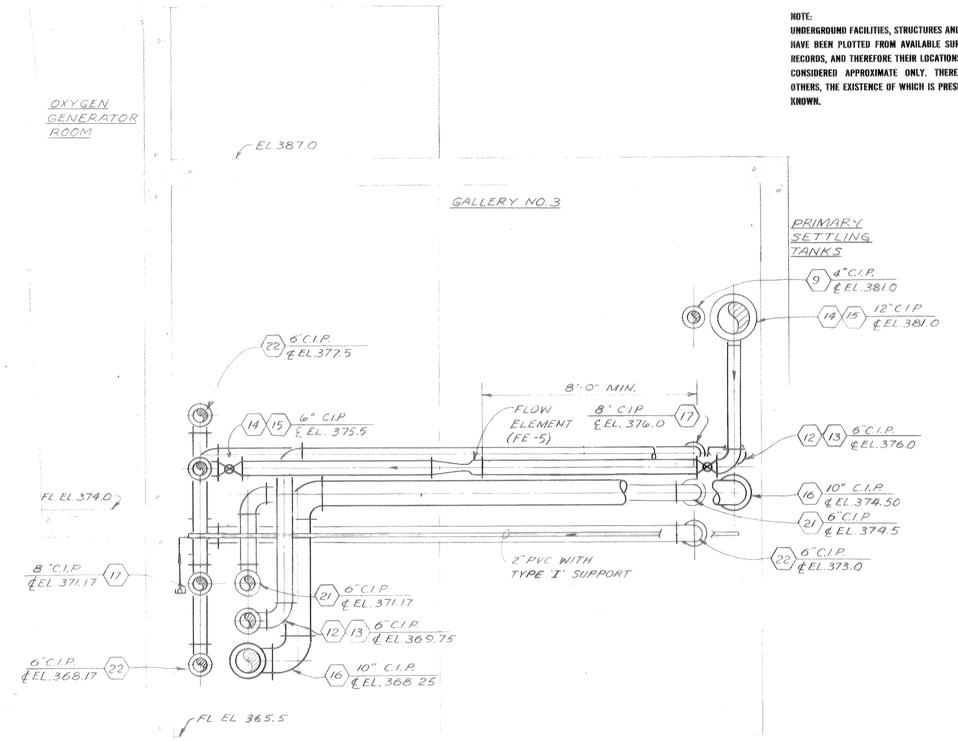
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERYS NO. 3 & NO. 4
LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-41



SECTION 4 M-41
SCALE 3/8" = 1'-0"



SECTION 5 M-41
SCALE 3/8" = 1'-0"

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PIPING LEGEND

- 9 — VACUUM FILTRATE
- 10 — RETURN SLUDGE (1ST STAGE)
- 12 — WASTE SLUDGE (1ST STAGE)
- 13 — WASTE SLUDGE (2ND STAGE)
- 14 — PRETHICKENER OVERFLOW
- 15 — POST THICKENER OVERFLOW
- 16 — AUXILIARY THICKENER MAKE-UP
- 17 — THICKENER MAKEUP
- 21 — EFFLUENT WATER
- 22 — DRYING BED FEED
- 31 — 1ST STAGE AERATION TANK TRAIN NO. 2 FEED
- 35 — AUXILIARY RETURN SLUDGE 2ND STAGE

RECORD DRAWING
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Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JKS	9/8/83
	KLS					
2	FOR CONSTRUCTION				SGB	2-24-78
	AFW	12/4/78	JLS	AFW/PKW		
1	FOR APPROVALS				SGB	3-31-76
	AFW	3-30-76	JLS	AFW/PKW		

PROJECT SUPERVISOR Joel L. Lawrence APPROVED S.G. Bridin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 3 & NO. 4
SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-42

2ND STAGE AERATION TANKS DISTRIBUTION BOX

MATCH LINE ME-12

FOR CONTINUATION OF PIPING, SEE M-36

OXYGEN GENERATOR ROOM

4"Ø C.S.

OXYGEN SUPPLY PIPING - 3"Ø C.S. @ EL. 387.0

FOR CONTINUATION OF PIPING, SEE M-30

EL. 391.5 PRIMARY SETTLING TANKS

OXYGEN SUPPLY PIPING - 3"Ø C.S.

S.G. NO. 12

S.G. NO. 11

S.G. NO. 13

MATCH LINE ME-12

MATCH LINE ME-12

EL. 391.5

G.S.P. & P.T.

O_2F

O_2F

O_2F

G.S.P. & P.T.

PURGE BLOWER

3"Ø C.S. @ EL. 387.0

2ND STAGE AERATION TANKS

PURGE BLOWERS

PURGE BLOWERS

TRAIN 3-1

TRAIN 2-1

TRAIN 1-1

TRAIN 2-1

TRAIN 1-1

G.S.

G.S.P. & P.T.

AERATORS

AERATORS

S.G. NO. 14

HYD. & HOSE RACK

S.G. NO. 15

S.G. NO. 16

1ST STAGE DISTRIBUTION BOX

S.G. NO. 17

S.G. NO. 20

S.G. NO. 18

S.G. NO. 19

12" PARSHALL FLUME NO. 2

P.S.V.

P.S.V.

P.S.V.

P.S.V.

P.S.V.

1ST STAGE AERATION TANKS

S.G. NO. 21

HYD. SEE SH M-18 FOR DETAILS

TRAIN 3-2

TRAIN 2-2

TRAIN 1-2

TRAIN 2-2

TRAIN 1-2

SLIDE GATE S.G. NO. 52

S.G. NO. 22

18" PARSHALL FLUME NO. 3

G.S.

SAMPLING AND CONTROL PIPES

MATCH LINE ME-13

S.S. HARDWARE & PERFORATED CHANNEL TO SUPPORT PIPING

SAMPLING AND CONTROL PIPES

PIPE CHASE

ALL SAMPLING PIPING ENTERING PIPE CHASES FOR CONTINUATION SEE M-99 & M-39

TRAIN 3-3

TRAIN 2-3

TRAIN 1-3

TRAIN 2-3

TRAIN 1-3

GALLERY NO. 4

MATCH LINE ME-9

SKYLIGHT TYP

CHANNEL TO 2ND STAGE AERATION TANKS DISTRIBUTION BOX

56'-8"

ALUM FEED (TYPICAL) SEE SECTION 7, SHEET M-55

I.P.

M.H.

P.S.V.

O_2V, G.S.P.

EL. 392.5 OXYGEN VENT GAS PIPING - 2"Ø S.S.

G.S.P. & O_2V

SAMPLING AND CONTROL PIPES

P.S.V. CONC. PIPE CHASE (TYP. 3-PLACES)

SAMPLING AND CONTROL PIPES

O_2V & G.S.P.

EL. 387.0

OXYGEN VENT GAS PIPING - 2"Ø S.S.

MATCH LINE ME-14

MATCH LINE ME-14

GALLERY NO. 6

PIPE CHASE

GALLERY NO. 5

PIPE CHASE

12" 41'-0" 12" 41'-0" 12" 41'-0" 12" 22'-0" 12" 41'-0" 12" 41'-0" 12"

234'-0"

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LEGEND

P.S.V.	PRESSURE - VACUUM RELIEF VALVE
G.S.	GRAB SAMPLE PORT
G.S.P.	GAS SAMPLE PORT
O_2F	OXYGEN FEED
O_2V	OXYGEN VENT
I.P.	INSPECTION PORT
P.T.	PRESSURE TAP
M.H.	MANHOLE
C.S.	CARBON STEEL

1/8" = 1'-0" 8 4 0 8 16

PLAN

SCALE 1/8" = 1'-0"

RECORD DRAWING

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573

S.G. BRISBIN 31810 W.O. LYNCH 37958

F.S. KEITH 35959

Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	KLS				KLS	7/6/83
2	PKW/AFW	2/21/78	JLS	AFW/PKW	S.G.B	2-24-78
1	FOR APPROVALS					
	PKW/AFW	5-30-76	J.L.S.	AFW/PKW	S.G.B	3-31-76

PROJECT SUPERVISOR Joel L. Stevens APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
1ST AND 2ND STAGE AERATION TANKS
UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-43

2ND STAGE AERATION TANKS DISTRIBUTION BOX

OXYGEN GENERATOR ROOM

CHANNEL EL 374.53

MATCH LINE ME-12

30" C.I.P. TRAIN NO. 3 FEED
(34) ℄ EL 368.50

30" C.I.P. TRAIN NO. 2 FEED
(33) ℄ EL 368.50

30" C.I.P. ENCASE IN CONCRETE, TRAIN NO. 1 FEED (32) ℄ EL 368.50

GALLERY NO. 3

GALLERY NO. 4

19'-0"

10" 4'-0" 10" 7'-2" 10"

HOSE RACK

HOSE BIBB

BY CTR NO. 4

(21)

4'-0" 10"

AIR BY CTR NO. 4

2ND STAGE AERATION TANKS

TRAIN 3-1 | TRAIN 2-1 | TRAIN 1-1

EL. 365.5

TRAIN 3-2 | TRAIN 2-2 | TRAIN 1-2

ROOF SUPPORT COLUMNS

SEE STRUCTURAL DRAWINGS FOR OPENINGS IN ALL WALLS

TRAIN 3-3 | TRAIN 2-3 | TRAIN 1-3

PT-3 MOUNT ON WALL

MATCH LINE ME-9

GALLERY NO. 4
FL EL 365.5' @ EDGE OF WALLS

MATCH LINE ME-13

(21) 1.0 BY CTR NO. 4

HOSE BIBB & RACK

SAMPLING AND CONTROL PIPES

RAMP

GALLERY NO. 5

GALLERY NO. 6
FL. EL. 360.75 @ EDGE OF WALLS

8" C.I.P. (28) E EL. 364.75

8" C.I.P. (28) E EL. 364.75

8" C.I.P. (28) E EL. 369.25

WEIR - SEE DETAIL SH. M-67

18" SQ x 13" DEEP PITS

EFFLUENT

CHANNEL

MATCH LINE ME-14

12" 41'-0" 12" 41'-0" 12" 41'-0" 12" 234'-0" 12" 22'-0" 12" 41'-0" 12"

SECOND STAGE AERATION

SAMPLING AND CONTROL PIPES

PRIMARY | SETTLING | TANKS

MATCH LINE ME-12

(30) 42" ST. PIPE ℄ EL. 373.0

BAFFLE

1ST STAGE DISTRIBUTION BOXES

(31)

ROOF SUPPORT COLUMNS

TRAIN 2-1 | TRAIN 1-1

1ST STAGE AERATION TANKS

EL. 370.1

SEE STRUCTURAL DRAWINGS FOR OPENINGS IN ALL WALLS

73'-0"

TRAIN 2-2 | TRAIN 1-2

LEL ANALYZER PANEL (1ST STAGE AERATION)

LEL ANALYZER PANEL (2ND STAGE AERATION)

56'-8"

TRAIN 2-3 | TRAIN 1-3

WEIR SEE DETAIL SH. M-67

18" SQ x 13" DEEP PITS

EFFLUENT

CHANNEL

GALLERY NO. 5
FL. EL. 360.75 @ EDGE OF WALLS

8" C.I.P. (28) E EL. 369.25

3'-0" 10" 4'-0" 4'-0" 10" 41'-0" 12"

5'-0" 12" 41'-0" 12" 41'-0" 12" 7'-0" 12"

MATCH LINE ME-14

FIRST STAGE AERATION

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PLAN
SCALE 1/8" = 1'-0"

PIPING LEGEND

(28)	DRAIN
(30)	1ST STAGE AERATION TANK TRAIN NO. 1 FEED
(31)	1ST STAGE AERATION TANK TRAIN NO. 2 FEED
(32)	2ND STAGE AERATION TANK TRAIN NO. 1 FEED
(33)	2ND STAGE AERATION TANK TRAIN NO. 2 FEED
(34)	2ND STAGE AERATION TANK TRAIN NO. 3 FEED
(21)	EFFLUENT WATER

RECORD DRAWING

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Date 9-8-83 Per FLD

1/8" = 1'0" 8 4 0 8 16

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LCS	9/8/83
2	FOR CONSTRUCTION	3/24/78	J.L.S.	AFW/PKW	SGB	3-29-78
1	FOR APPROVALS	3-30-76	J.L.S.	AFW/PKW	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Swanson
APPROVED S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
1ST AND 2ND STAGE AERATION TANKS
LOWER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-44

MATCH LINE ME-14

S.G. NO. 37 | S.G. NO. 32 | 2ND STAGE AERATION TANKS | HYD. & HOSE RACK | S.G. NO. 31 | HYD.

S.G. NO. 35 | S.G. NO. 33 | S.G. NO. 29 | CHANNEL TO 2ND STAGE AERATION TANKS DISTRIBUTION BOX

S.G. NO. 36 | S.G. NO. 34 | GALLERY NO. 6 EL 375.50 | MATCH LINE ME-16 | SKYLIGHT TYP | S.G. NO. 30

45'-0" | 38'-0"

MATCH LINE ME-17

YARD HYD.

GALLERY NO. 7

CROSS COLLECTOR DRIVE MECHANISM

SLUDGE DRIVE MECHANISM

1ST STAGE AERATION TANKS

S.G. NO. 23 | HYD. & HOSE RACK | MATCH LINE ME-14

MATCH LINE ME-15 | SLIDE GATES S.G. NO. 24 S.G. NO. 28 | S.G. NO. 25 | S.G. NO. 26 | S.G. NO. 27

GALLERY NO. 5 EL. 380.25 | 1" ø PVC ALUM FEED FOR CONTINUATION OF PIPING SEE SH. M-48

UNION

ALUM. DIFFUSERS - TYPICAL 5 PLACES

MATCH LINE ME-17A

YARD HYD.

CROSS COLLECTOR DRIVE MECHANISM

SLUDGE DRIVE MECHANISM

109'-0" | 26'-0" | 12"

MATCH LINE ME-19

S.G. NO. 38 | S.G. NO. 39 | LIME MIXING CHAMBER NO. 1

MIXERS

SECOND STAGE SETTLING TANKS

FIRST STAGE SETTLING TANKS

S.G. NO. 40 | HYD. & HOSE RACK | MATCH LINE ME-18

TYPE 'D' 24" SQ. C.I. HATCH

LIME MIXING CHAMBER NO. 2

S.G. NO. 41 | HYD.

45'-0"

SCUM PIPE OPERATOR | 16" SCUM PIPE | 16" SCUM PIPE

11'-6" | 11'-6"

FINGER WEIR TROUGHS (FRP) | TROUGH | S.G. NO. 49 | MIXER | SKYLIGHT

S.G. NO. 42 | S.G. NO. 43

FINGER WEIR TROUGHS (FRP)

SCUM PIPE OPERATOR

MATCH LINE ME-20

EFFLUENT CHANNEL → | S.G. NO. 48 | S.G. NO. 47 | S.G. NO. 46 | S.G. NO. 45 | S.G. NO. 44

← EFFLUENT CHANNEL

YARD HYD. | YARD HYD.

MATCH LINE ME-20

HYD.

GALLERY NO. 8 EL 375.5

LIME STORAGE BINS

CHLORINATOR ROOM

TYPE 'D' 24" SQ. C.I. HATCH | MATCH LINE ME-21

HYD. & HOSE RACK SEE SH. M-13 FOR DETAILS (TYP.)

WEIR

CHLORINE CONTACT TANK NO. 1

MIXER

12" SCUM PIPE

S.G. NO. 50

S.G. NO. 51

CHLORINE STORAGE ROOM

YARD HYD.

CHLORINE CONTACT TANK NO. 2

1/8" = 1'0" 8 4 0 8 16

PLAN
SCALE 1/8" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

it is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AEF				JLS	9/8/83
2	FOR CONSTRUCTION				SGB	2-24-78
2	AFW/AES	2/24/78	JLS	AFW/PKW		
1	FOR APPROVALS				SGB	3-31-76
1	AFW/MS	3-30-76	J.L.S.	AFW/PKW		

PROJECT SUPERVISOR Joel L. Swanson | APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
1ST AND 2ND STAGE SETTLING TANKS AND CHLORINATION - UPPER PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-45

MATCH LINE ME-14

ALUM FEED PUMPS

ALF NO.5 | ALF NO.4 | ALF NO.3 | ALF NO.2 | ALF NO.1

ALUM STORAGE TANKS

GALLERY NO. 6
FL. EL. 360.75 @ EDGE OF WALLS
AIR BY CTR NO.4

2ND STAGE WASTE ACTIVATED SLUDGE PUMPS

MATCH LINE ME-16

2ND STAGE RECIRCULATING PUMPS

PUMP NO. W.A.S. 5 | PUMP NO. R.A.S. 7 | PUMP NO. R.A.S. 6 | PUMP NO. W.A.S. 4 | PUMP NO. R.A.S. 5 | PUMP NO. R.A.S. 4 | PUMP NO. W.A.S. 3

45'-0"

AIR HOSE RACK

AIR BY CTR NO.4
PUMP NO. S.P. 10

SUMP NO. 3
PUMP NO. S.P. 9

GALLERY NO. 4

GALLERY NO. 6 | GALLERY NO. 5

16'-0"

MATCH LINE ME-15

AIR BY CTR. NO. 4

1ST STAGE WASTE ACTIVATED SLUDGE PUMPS

GALLERY NO. 5
FL. EL. 360.75 @ EDGE OF WALLS

PUMP NO. W.A.S. 2 | 1ST STAGE RECIRCULATING PUMPS: PUMP NO. R.A.S. 3 | PUMP NO. R.A.S. 2 | PUMP NO. R.A.S. 1 | PUMP NO. W.A.S. 1

MATCH LINE ME-14

MATCH LINE ME-17

SLUDGE CROSS COLLECTOR CHANNELS | SLUDGE HOPPERS

GALLERY NO. 7

MATCH LINE ME-18

MATCH LINE ME-9

AIR BY CTR NO.4

SLUDGE CROSS COLLECTOR CHANNELS | SLUDGE HOPPERS

MATCH LINE ME-17

MATCH LINE ME-19

FL EL 360.75 @ EDGE OF WALLS

20'-0" | 12" | 22'-0" | 12" | 20'-0"

GALLERY NO. 7

PUMP NO. T.M. 3

LIME MIXING CHAMBER NO.1

12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12"

SCUM PIT

16" SCUM PIPE

LIME MIXING CHAMBER NO. 2

AIR BY CTR NO.4

GALLERY NO. 4

16" SCUM PIPE

MATCH LINE ME-20

AIR BY CTR NO.4

PUMP NO. S.C.M. 2

AIR HOSE RACK
SCUM PUMP

MATCH LINE ME 20

FIRST STAGE SETTLING TANKS

SECOND STAGE SETTLING TANKS

GALLERY NO. 6
FL EL 360.75 @ EDGE OF WALLS

PUMP NO. L.S.F. 6 | PUMP NO. L.S.F. 5 | PUMP NO. L.S.F. 4

SUMP NO. 4

PUMP NO. S.P.12
PUMP NO. S.P.11

NO. 2 | LIME MIXING TANKS | NO. 1

LIME SLAKERS

NO. 2 | NO. 1

PUMP NO. S.C.M. 3

SCUM PUMP

PUMP NO. T.M. 2 | PUMP NO. T.M. 1

THICKENER MAKEUP PUMPS

PUMP NO. E.W. 2 | PUMP NO. E.W. 1

EFFLUENT WATER SERVICE PUMPS

AIR TO SAMPLER BY CTR. #4

SCUM PIT

MATCH LINE ME 21

AIR TO DUST COLLECTOR (LIME BIN) (BY CTR. #4)

CHLORINE CONTACT TANK NO. 1 - 77'-0"

CHLORINE CONTACT TANK NO. 2

34'-0" | 14" | 18'-0" | 12"

155'-0"

26'-0"

12"

48'-0"

4'-0"

1/8" = 1'0" (8 4 0 8 16)

PLAN
SCALE 1/8" = 1'-0"

LEGEND
(M) MOTOR

RECORD DRAWING
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Date 9-8-83 Per FLD

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A.G. WHEELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				KLS	9/8/83
2	FOR CONSTRUCTION AES/AFW	7/24/78	J.L.S.	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS A.F.W./A.S.	3-30-76	J.L.S.	A.F.W./mcw.	SGB	9-27-76

PROJECT SUPERVISOR Joel L. Swanson — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
1ST AND 2ND STAGE SETTLING TANKS AND CHLORINATION - LOWER PLAN
STEARNS & WHEELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-46

NOTE:
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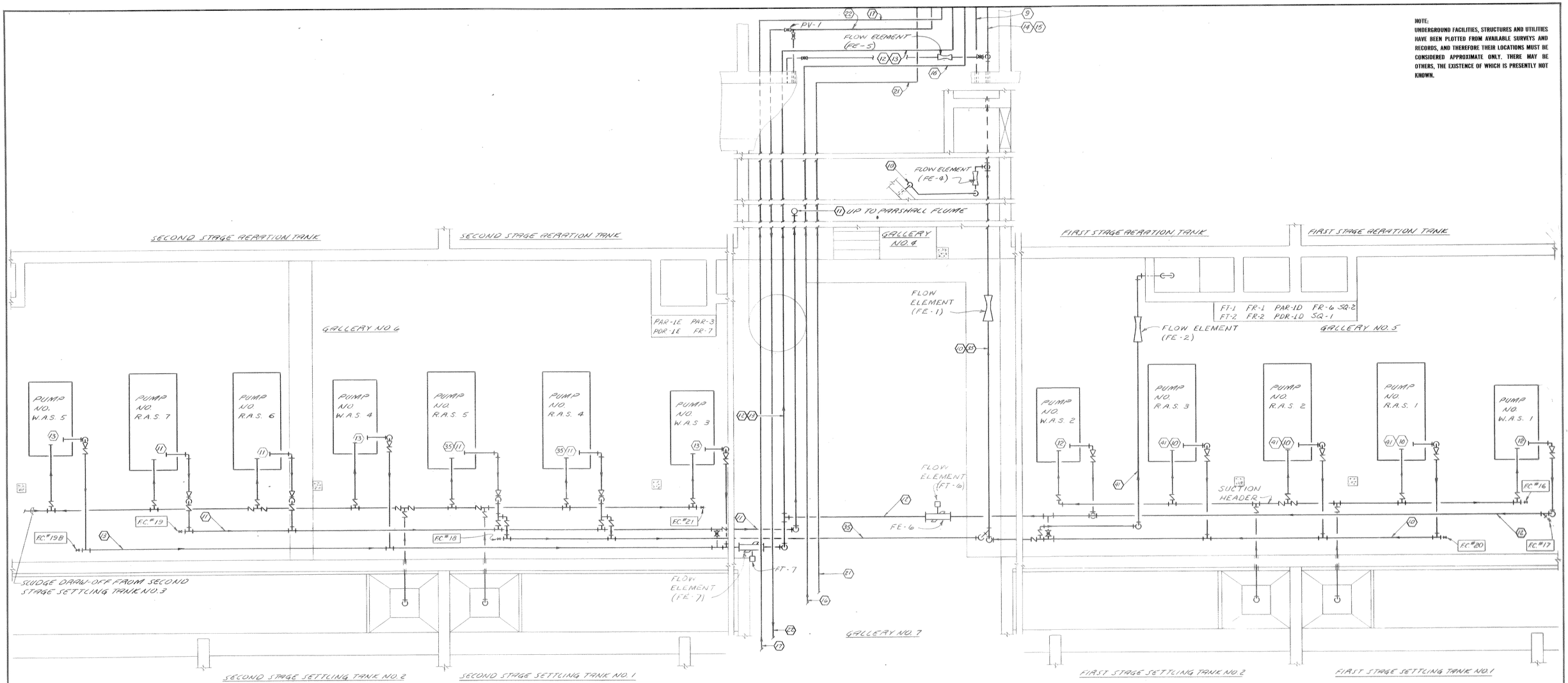

PROCESS PIPING SCHEMATIC

NO SCALE

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

- (10) RETURN SLUDGE (FIRST STAGE)
- (11) RETURN SLUDGE (SECOND STAGE)
- (12) WASTE SLUDGE (FIRST STAGE)
- (13) WASTE SLUDGE (SECOND STAGE)
- (14) PRETHICKENERS OVERFLOW
- (15) POST THICKENERS OVERFLOW
- (16) AUXILIARY THICKENER MAKE-UP
- (17) THICKENER MAKEUP
- (21) EFFLUENT WATER
- (22) DRYING BED FEED
- (55) AUXILIARY RETURN SLUDGE
- (41) AUXILIARY

RECORD DRAWING
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Date 9-8-83 Per FLD

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LICENSED PROFESSIONAL ENGINEER STERLING G. BISBEE 31910 OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/8/83
2	FOR CONSTRUCTION GPV	2/24/78	PKW	PKW/AFW	SGB	2-24-78
1	FOR APPROVALS G.P.V.	3-30-76	P.K.W.	PKW/AFW	SGB	3-31-76

PROJECT SUPERVISOR Jack L. Swanson APPROVED S.G. Bisbee

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 4, NO. 5 & NO. 6
PROCESS PIPING SCHEMATIC

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-47

NOTE:
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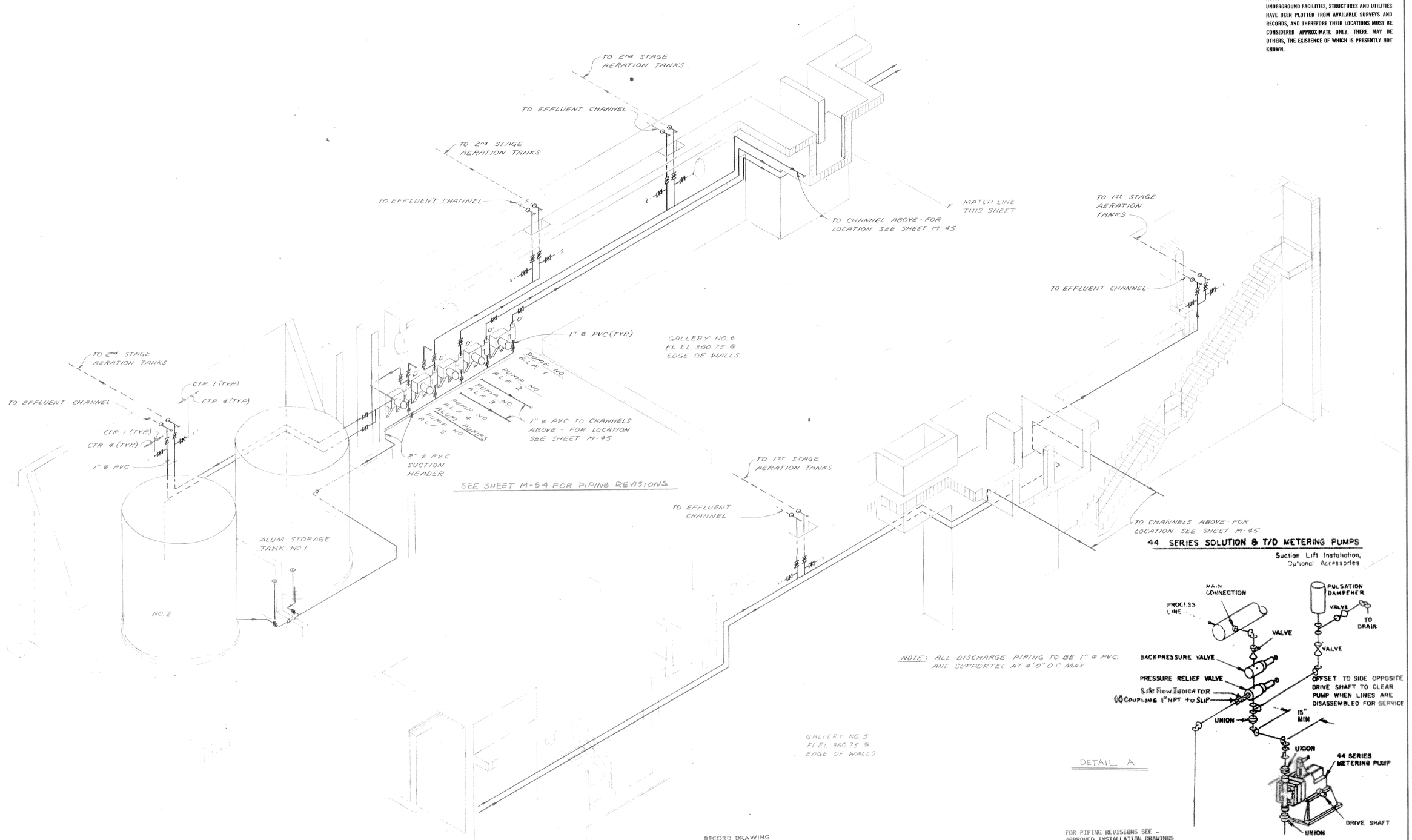

44 SERIES SOLUTION & T/D METERING PUMPS

Suction Lift Installation, Optional Accessories

NOTE: ALL DISCHARGE PIPING TO BE 1" ø PVC. AND SUPPORTED AT 4'-0" O.C. MAX.

DETAIL A

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

RECORD DRAWING

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Date 9-8-83 Per FLD

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NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AGP					JLS	9/8/83
2	FOR CONSTRUCTION AES	9/24/76	JLS		PKW	SGB	2/24/76
1	FOR APPROVALS A.S.	3-30-76	J.L.S.		P.K.W.	SGB	3-31-76

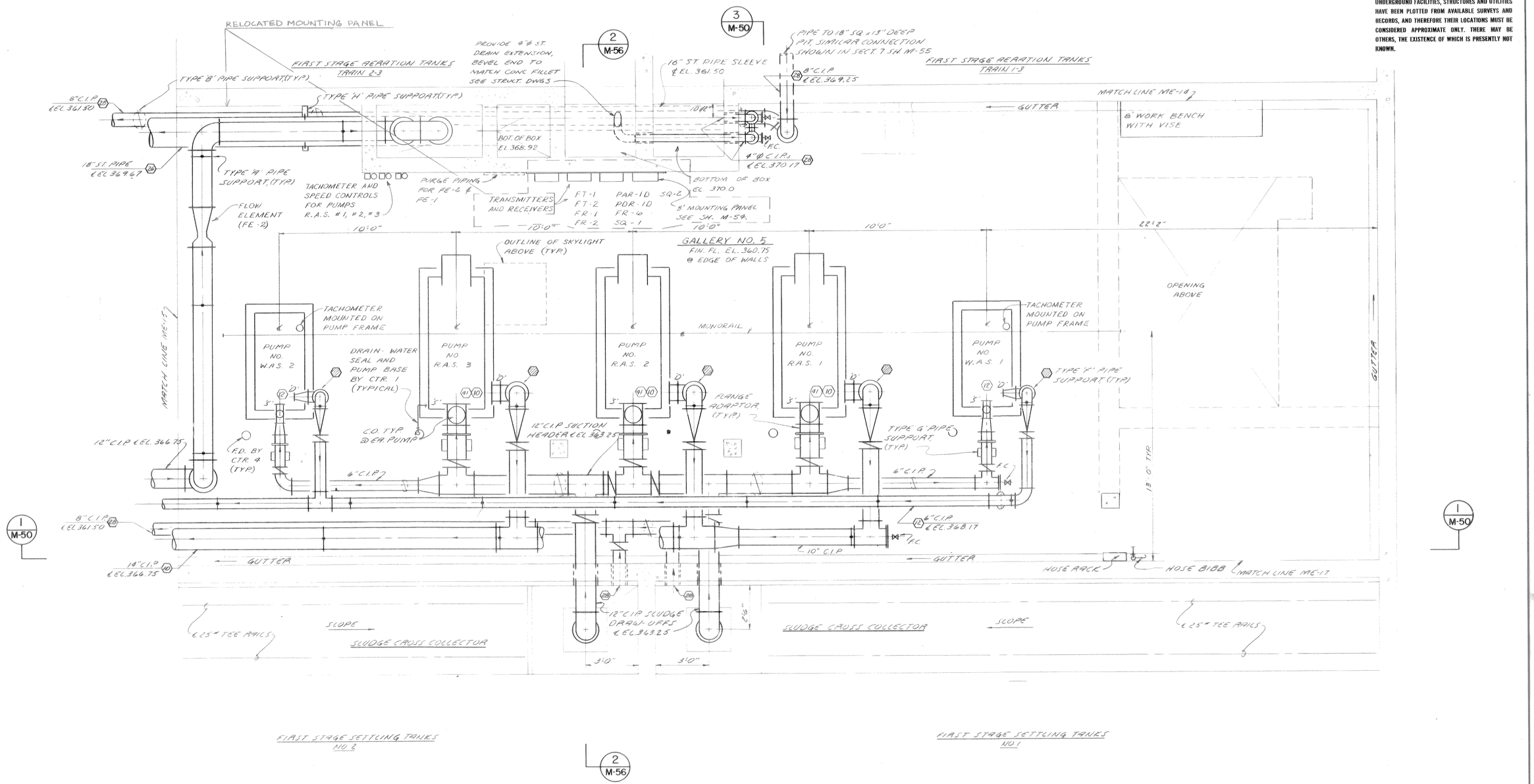
PROJECT SUPERVISOR: Jack L. Swanson
APPROVED: S.G. Bruben

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO.5 & NO.6 - ALUM PIPING SCHEMATIC

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN., CT.CUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-48

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN

SCALE 3/8" = 1'-0"

RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.

Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

PIPING LEGEND

(10) RETURN SLUDGE (FIRST STAGE)
(12) WASTE SLUDGE (FIRST STAGE)

(28A) FIRST STAGE SETTLING TANK NO 2 BYPASS
(28) DRAIN
(41) AUXILIARY

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD ADF				RS	9/9/83
2	FOR CONSTRUCTION GPV/AES	2/24/78	PKW	AFW/PKW	SCB	2/24/78
1	FOR APPROVALS GPV/AES	3-30-76	PKW	AFW/PKW	SCB	3-31-76

PROJECT SUPERVISOR Joseph P. Durango APPROVED S. C. Boylan

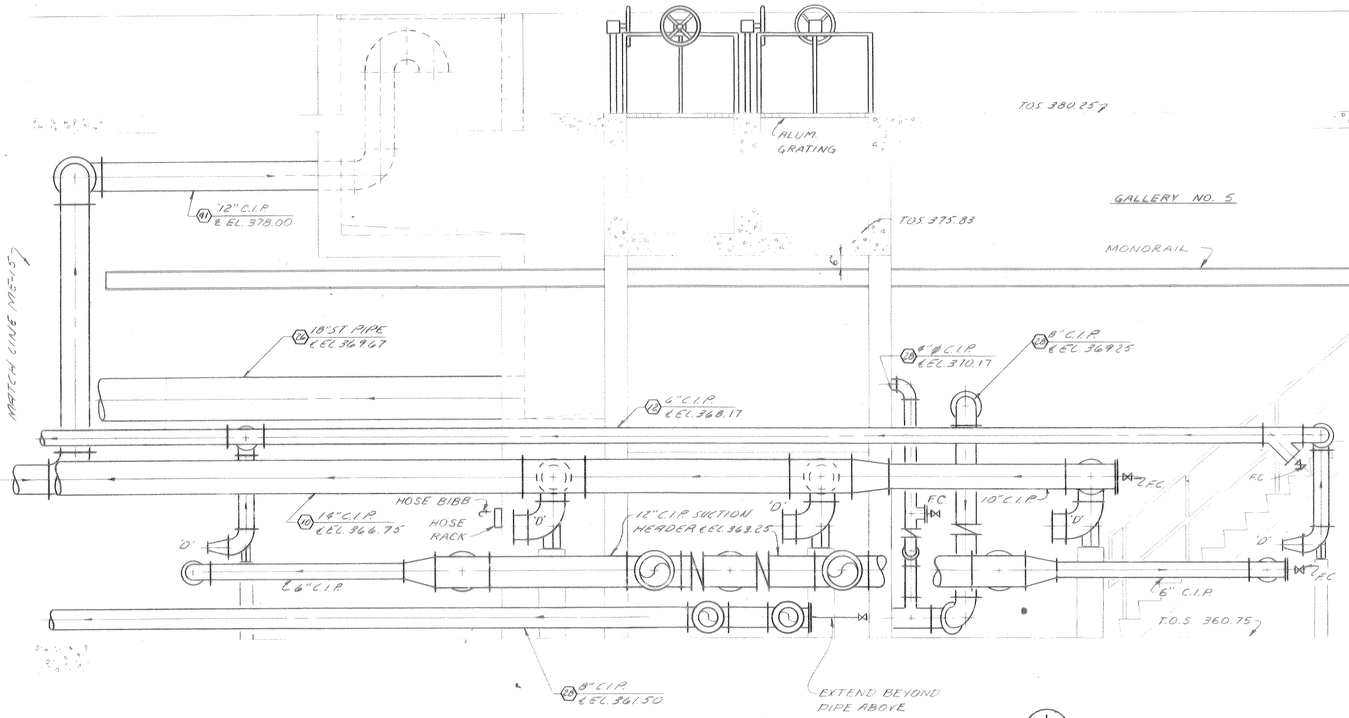
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO.5 - IST STAGE RETURN SLUDGE - PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

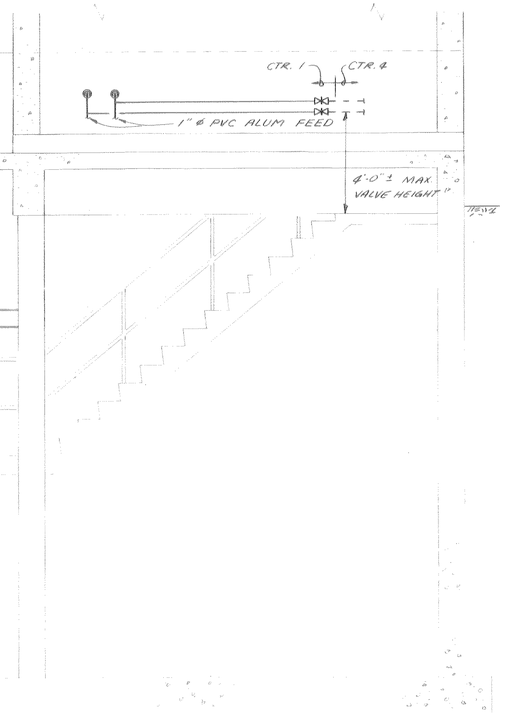
JOB NO. 577 CONTRACT NO. 1 SHEET M-49

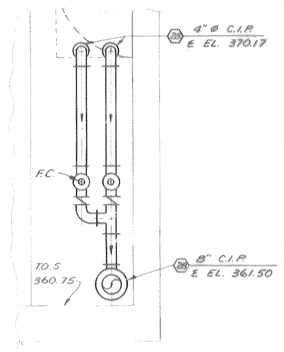
401

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION 1/M-49
SCALE 3/8" = 1'-0"





SECTION 3/M-49
SCALE 3/8" = 1'-0"

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(10) RETURN SLUDGE (FIRST STAGE)
(12) WASTE SLUDGE (FIRST STAGE)

(24) FIRST STAGE SETTLING TANK NO. 2 BYPASS
(28) DRAIN
(41) AUXILIARY

RECORD DRAWING
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Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRISBIN 31610 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD VLS				VLS	9-8-83
2	FOR CONSTRUCTION GPV	2/24/78	PKW	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS G.P.V.	3-30-76	P.K.W.	A.F.W./P.K.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel T. Stevens APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 5 - 1ST STAGE RETURN SLUDGE - SECTION
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-50

NOTE:
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8" C.I.P. ℄ EL. 364.75
PIPE TO 18"SQ x 13" DEEP PITS SIMILAR TO CONNECTION SHOWN IN SECT 7 ON SH. M-55
TACHOMETERS AND SPEED CONTROLS FOR R.A.S. PUMPS #4, #5, #6 AND #7
SECOND STAGE AERATION TANKS TRAIN 1-3
NOTE: BOT. EDGE OF SLIDE GATE NO. 31 TO SEAT 6" BELOW INV. OF 30"
SLIDE GATE NO. 31
MATCH LINE ME-14
16" ST. PIPE SLEEVE ℄ 361.50
BOT. OF BOX EL. 367.83
BOT. OF BOX EL. 365.50
8" C.I.P. ℄ EL. 361.50
36" ST. PIPE ℄ EL. 372.58
HOSE RACK
HOSE BIBB
3" PVC ℄ EL. 369.67
6" C.I.P. - DRAIN
TRANSMITTERS AND RECEIVERS PAR-1E PDR-1E PAR-3 FR-7 SEE SH. M-54 FOR MOUNTING PANEL 4'-0" LG.
OUTLINE OF SKYLIGHT ABOVE (TYP.)
10'-0"
11'-0"
6'-0"
PUMP NO. R.A.S. 5
PUMP NO. R.A.S. 4
PUMP NO. W.A.S. 3
MONORAIL AND HOIST
TACHOMETER MOUNTED ON PUMP FRAME
WATER SEAL & PUMP BASE DRAIN BY CTR. 1 (TYP.)
GALLERY NO. 6 FIN. FLR. 360.75 @ EDGE OF WALLS
18'-0"
MATCH LINE ME-16
CO TYP @ EA. PUMP
FLANGE ADAPTOR
FD. (TYP.) BY CTR. 4
16" C.I.P. SUCTION HEADER ℄ EL. 363.25
16" C.I.P. 367.00
6" C.I.P. ℄ EL. 365.5
16" C.I.P. ℄ EL. 365.5
16" C.I.P. ℄ EL. 367.00
FLOW ELEMENT (FE-7)
GUTTER
FT-7
3'-0" (MIN.)
8'-8"
4 M-52
6" C.I.P. ℄ EL. 365.5
8" C.I.P. ℄ EL. 361.50
12"
12"
5'-0"
3'-0"
SLUDGE CROSS COLLECTOR
SCOPE
14" C.I.P. SLUDGE DRAWOFF ℄ EL. 363.25
℄ 25# TEE RAILS
SECOND STAGE SETTLING TANKS NO. 1
10'-0" O.C. (TYP.)
5 M-56
6" ø C.I. DROP PIPE FROM GUTTER WITH REMOVABLE S.S. HUB STRAINER
GALLERY NO. 4 FIN. FLR. 365.50 @ EDGE OF WALLS
6" C.I.P. ℄ EL. 369.75
DN
RAMP DN.
8" C.I.P. ℄ EL. 359.75
ECCENTRIC FLANGE 3"x13 1/2" w/DRAIN
SUMP PUMPS CONTROL PANEL
TYPE 'B' PIPE SUPPORT @ 4'-0" O.C. MAX.
ALUM. GRATING
5'-0" ø x 6'-0" DEEP SUMP w/ 2 PUMPS PUMP NO. SP.9 AND PUMP NO. SP.10
6" C.I.P. ℄ EL. 368.17
8" C.I.P. ℄ EL. 371.17
4" C.I.P. ℄ EL. 368.17
16" C.I.P. ℄ EL. 371.50
GALLERY NO. 6
GALLERY NO. 5
10" C.I.P. ℄ EL. 368.25
CTR. 1
CTR. 4
TYPE-J PIPE SUPPORTS SEE NOTE SH. M-23
10'-0" (MIN.)
FLOW ELEMENT (FE-6)
FT-6
10" C.I.P. ℄ EL. 367.17
GALLERY NO. 7 FIN. FLR. 360.75 @ EDGE OF WALLS
4" C.I.P. ℄ EL. 371.17
3" PVC C/L NO. 1 TYP. TYPE 'I' SUPPORT
BY CTR. NO. 4
9 M-52
GALLERY NO. 5 FIN. FLR. 360.75 @ EDGE OF WALLS
14" C.I.P. ℄ EL. 371.50
8" C.I.P. ℄ EL. 369.25
FLOW ELEMENT (FE-1)
6" ø C.I. DROP PIPE WITH REMOVABLE S.S. HUB STRAINER
FIRST STAGE AERATION TANKS TRAIN 2-3
18" ST. PIPE ℄ EL. 369.67
8" C.I.P. ℄ EL. 359.75
8" C.I.P. ℄ EL. 361.50
12" C.I.P. ℄ EL. 366.75
MATCH LINE ME-15
6" C.I.P. ℄ EL. 368.17
8" C.I.P. ℄ EL. 361.50
4 M-52
14" C.I.P. ℄ EL. 366.75
GUTTER
MATCH LINE ME-17
ALUM. GRATING
℄ 25# TEE RAILS
SCOPE
SLUDGE CROSS COLLECTOR
FIRST STAGE SETTLING TANKS NO. 2

PLAN
SCALE 3/8" = 1'-0"

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

PIPING LEGEND

(10) RETURN SLUDGE (FIRST STAGE)
(11) RETURN SLUDGE (SECOND STAGE)
(12) WASTE SLUDGE (FIRST STAGE)
(13) WASTE SLUDGE (SECOND STAGE)
(14) AUXILIARY THICKENER MAKE-UP
(17) THICKENER MAKE-UP

(21) EFFLUENT WATER
(22) DRAWING BED FEED
(24) ALTERNATE FEED

(26) FIRST STAGE SETTLING TANK NO. 2 BYPASS
(28) DRAIN
(33) PUMPING RETURN SLUDGE
(37) SUMP PUMPS DISCHARGE
(41) AUXILIARY

RECORD DRAWING
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Date 9-8-83 Per FLD

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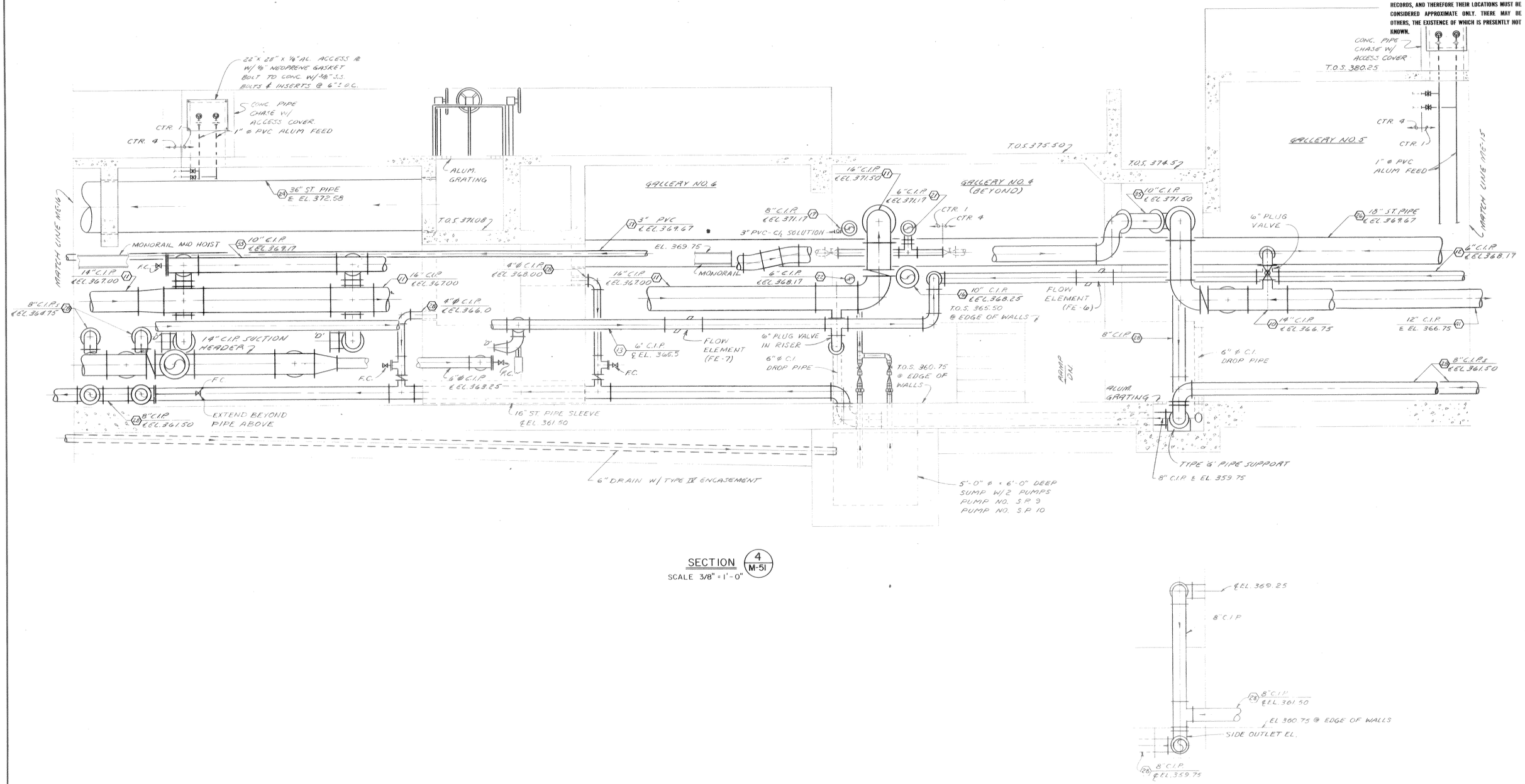
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD KLS				JLS	9/9/83
2	FOR CONSTRUCTION				SLB	2-24-78
	GPV/AES	4/24/18	PKW	AFW/PKW		
1	FOR APPROVALS				SLB	3-31-76
	GPV/AES	3-30-76	PKW	AFW/PKW		

PROJECT SUPERVISOR: Jack L. Stevenson
APPROVED: S.G. Brinbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE GALLERY NO. 5 & NO. 6
2ND STAGE RETURN SLUDGE - PLAN
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-51

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION 4 / M-51
SCALE 3/8" = 1'-0"

SECTION 9 / M-51
SCALE 3/8" = 1'-0"

PIPING LEGEND

10 RETURN SLUDGE (FIRST STAGE)
11 RETURN SLUDGE (SECOND STAGE)
12 WASTE SLUDGE (FIRST STAGE)
13 WASTE SLUDGE (SECOND STAGE)
16 AUXILIARY THICKENER MAKE-UP
17 THICKENER MAKE-UP

21 EFFLUENT WATER
22 DRYING BED FEED
24 ALTERNATE FEED

24 FIRST STAGE SETTLING TANK NO. 2 BYPASS
28 DRAIN
25 AUXILIARY RETURN SLUDGE
27 SUMP'S PUMPS DISCHARGE
11 AUXILIARY

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRUSH 31810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LLS	9/6/83
2	FOR CONSTRUCTION				SGB	2-24-78
	GPV	11-24-75	PKW	AFW/PKW		
1	FOR APPROVALS				SGB	8-31-76
	GPV	5-30-76	PKW	AFW/PKW		

PROJECT SUPERVISOR Joel L. Swanson
APPROVED S.G. Brush

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 5 & NO. 6
2ND STAGE RETURN SLUDGE - SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-52

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

NOTE:
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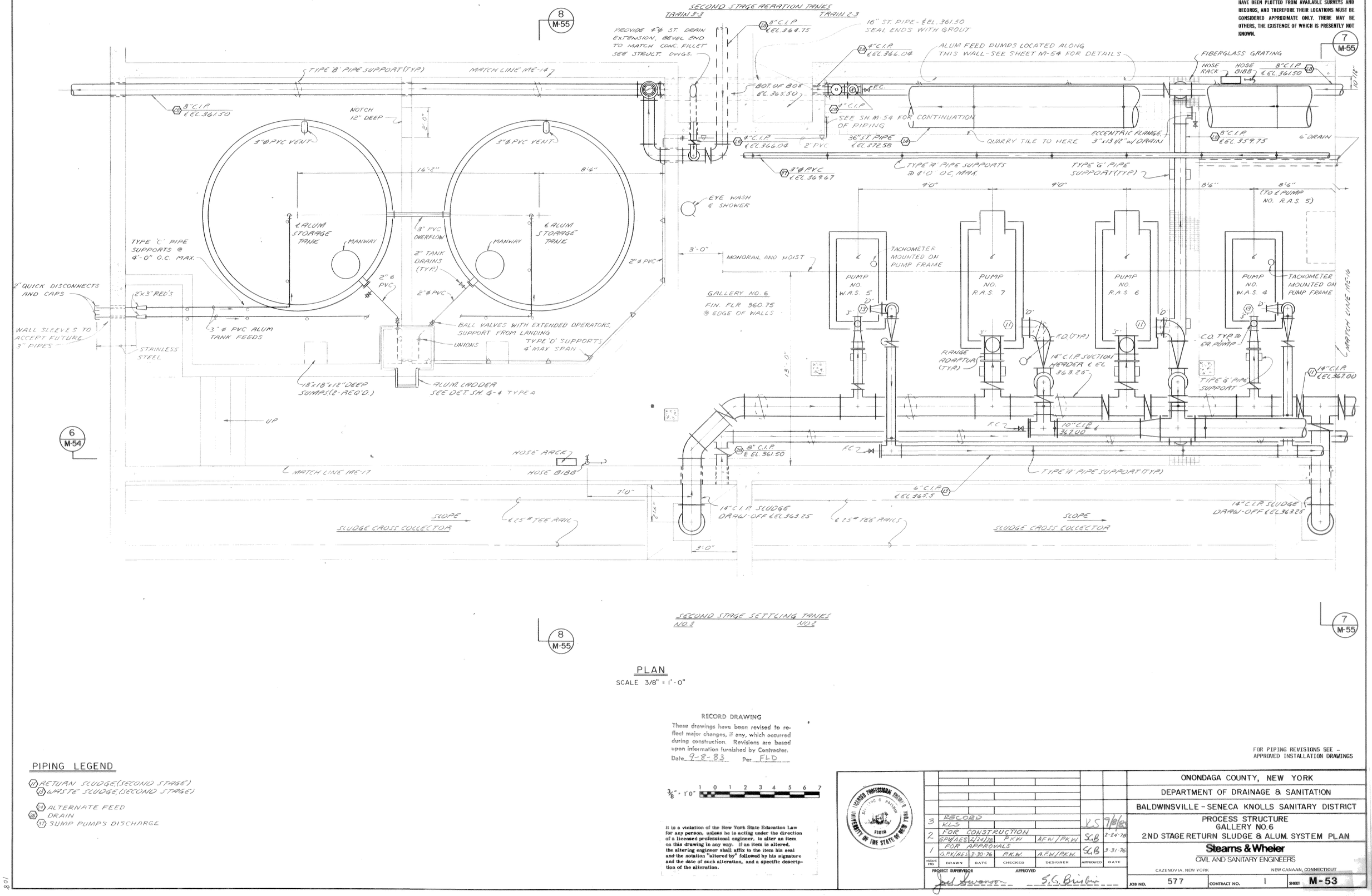

PLAN

SCALE 3/8" = 1'-0"

PIPING LEGEND

(11) RETURN SLUDGE (SECOND STAGE)
(12) WASTE SLUDGE (SECOND STAGE)
(24) ALTERNATE FEED
(28) DRAIN
(37) SUMP PUMPS DISCHARGE

RECORD DRAWING
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Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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FOR PIPING REVISIONS SEE – APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD K.L.S.				K.S.	9/8/83
2	FOR CONSTRUCTION G.P.W./A.E.S.	2/24/78	P.K.W.	A.F.W./P.K.W.	S.G.B.	2-24-78
1	FOR APPROVALS G.P.W./A.E.S.	3-30-76	P.K.W.	A.F.W./P.K.W.	S.G.B.	3-31-76

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 6
2ND STAGE RETURN SLUDGE & ALUM. SYSTEM PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-53

NOTE:
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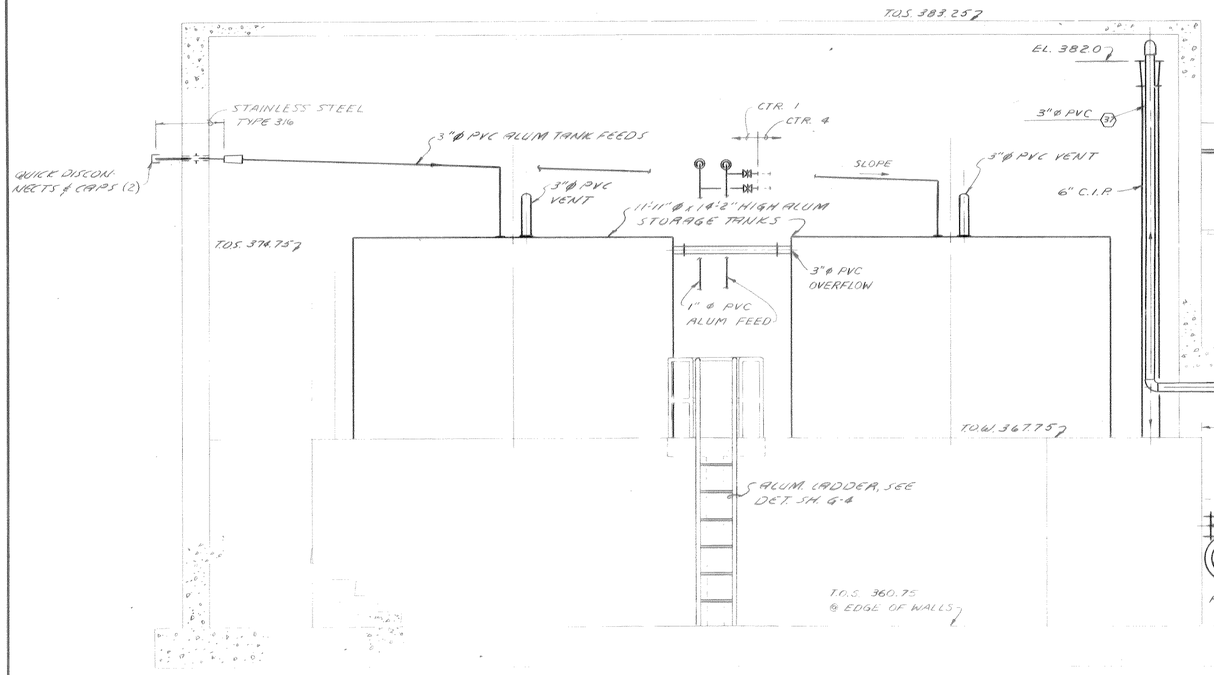
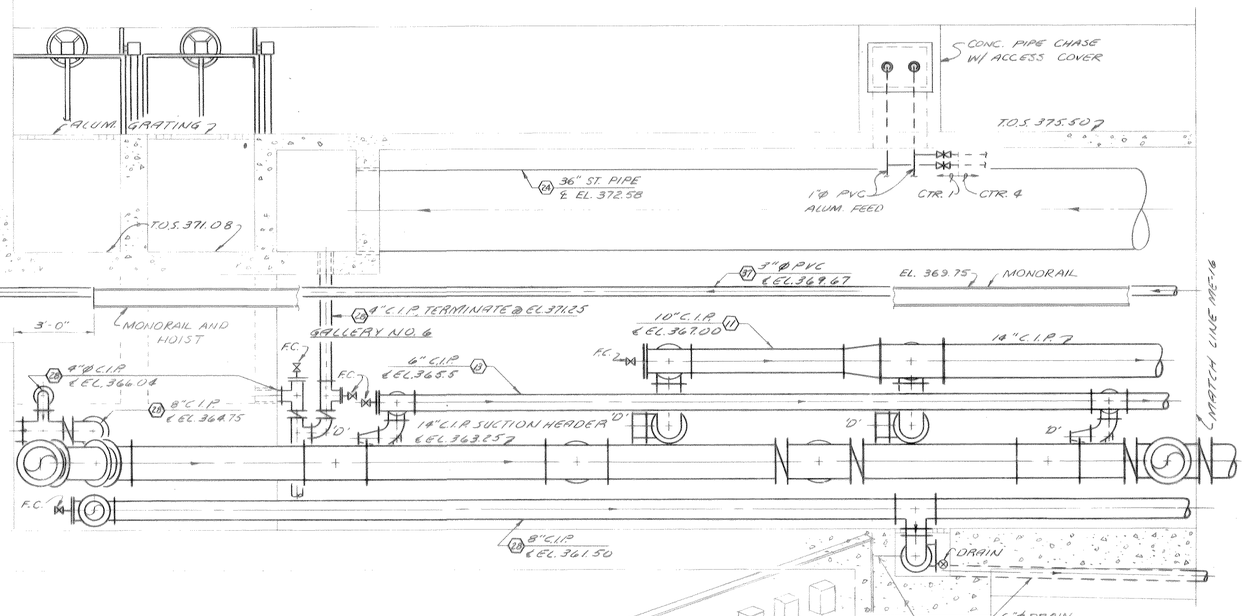
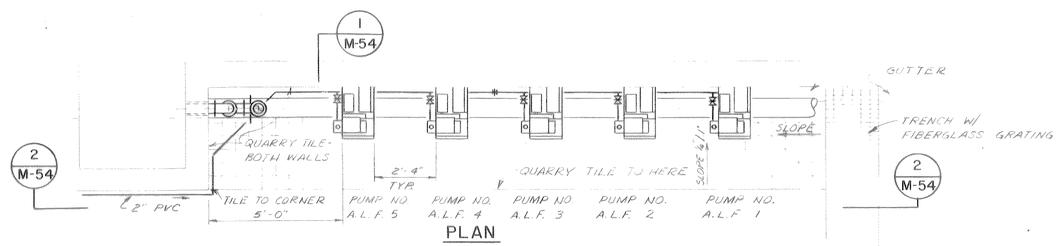
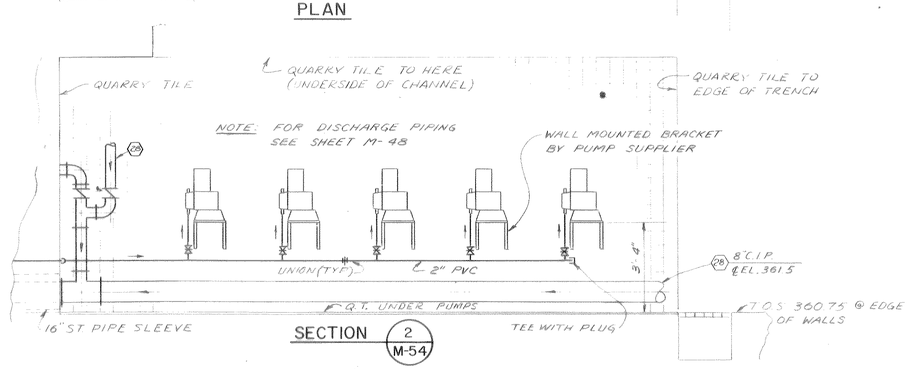




SECTION 6 / M-53
SCALE 3/8" = 1'-0"

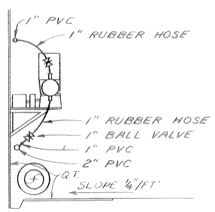


PLAN

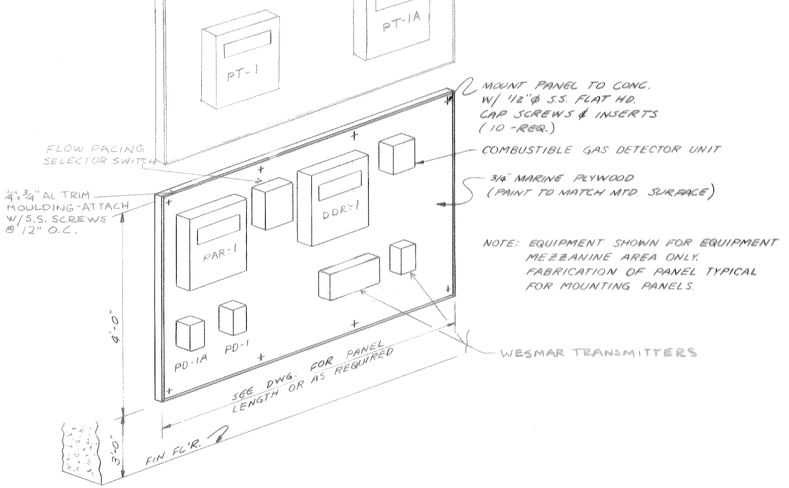


SECTION 2 / M-54

ALUM. FEED PUMPS DETAILS
SCALE 3/8" = 1'-0"



SECTION 1 / M-54



MOUNTING PANEL DETAIL
NO SCALE

PIPING LEGEND

(11) RETURN SLUDGE (SECOND STAGE)
(13) WASTE SLUDGE (SECOND STAGE)
(24) ALTERNATE FEED
(28) DRAIN
(37) SUMP PUMPS DISCHARGE

SEE DETAIL A FOR PIPING REVISIONS ON SHEET M-48

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

RECORD DRAWING
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Date 9-8-83 Per FLD

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				LS	9/8/83
2	AEF FOR CONSTRUCTION				SGB	2-24-78
	GPV/AES	2/24/78	PKW	AFW/PKW		
1	FOR APPROVALS				SGB	3-31-76
	G.PV/AES	3-30-76	P.K.W.	A.F.W./P.K.W.		

PROJECT SUPERVISOR Joel P. Stevens APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 6
2ND STAGE RETURN SLUDGE & ALUM. SYSTEM - SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-54

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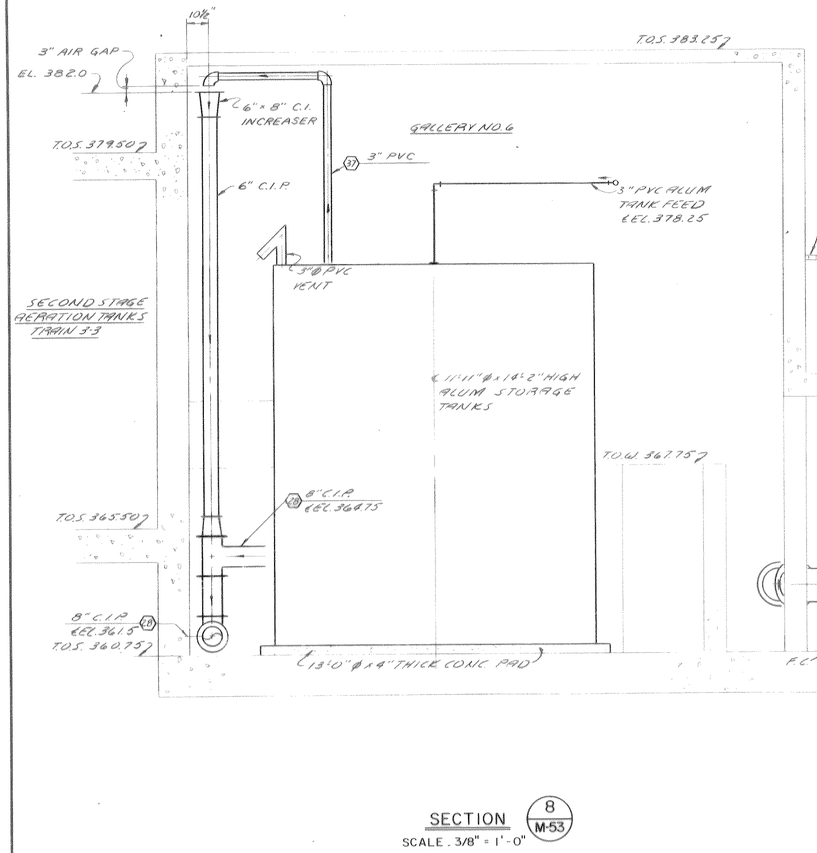
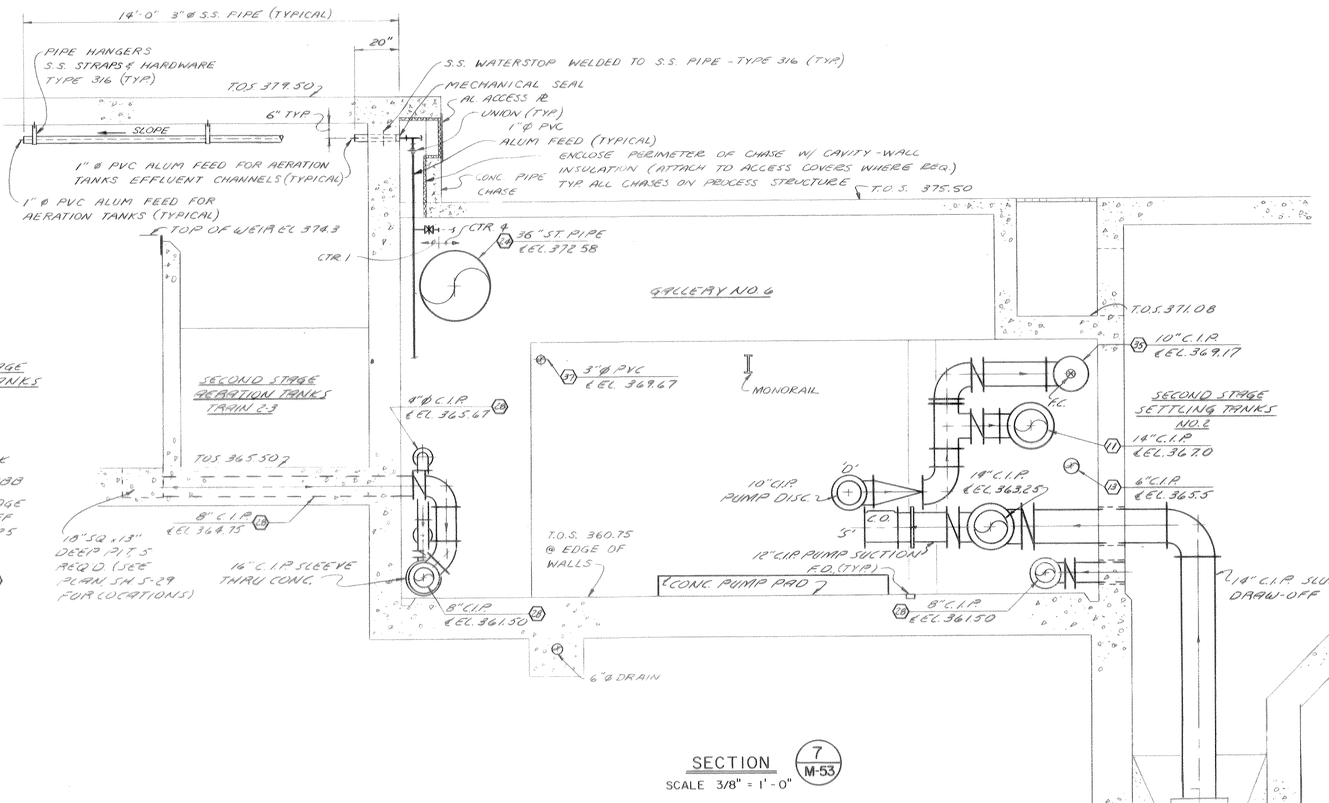
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION (8) M-53
SCALE . 3/8" = 1'-0"



SECTION (7) M-53
SCALE 3/8" = 1'-0"

PIPING LEGEND

(11) RETURN SLUDGE (SECOND STAGE)
(13) WASTE SLUDGE (SECOND STAGE)
(28) ALTERNATE FEED
(29) DRAINS
(23) AUXILIARY RETURN SLUDGE
(37) SUMP PUMPS DISCHARGE

RECORD DRAWING
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Date 9-8-83 Per E.L.D.

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RELOR'D AS E				JLS	9/8/83
2	FOR CONSTRUCTION	GPW	1/24/78	PKW	AFW/PKW	SGB	2-24-78
1	FOR APPROVALS	GPW	3-30-76	PKW	AFW/PKW	SGB	3-31-76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bricker

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 6 - SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-55

NOTE:
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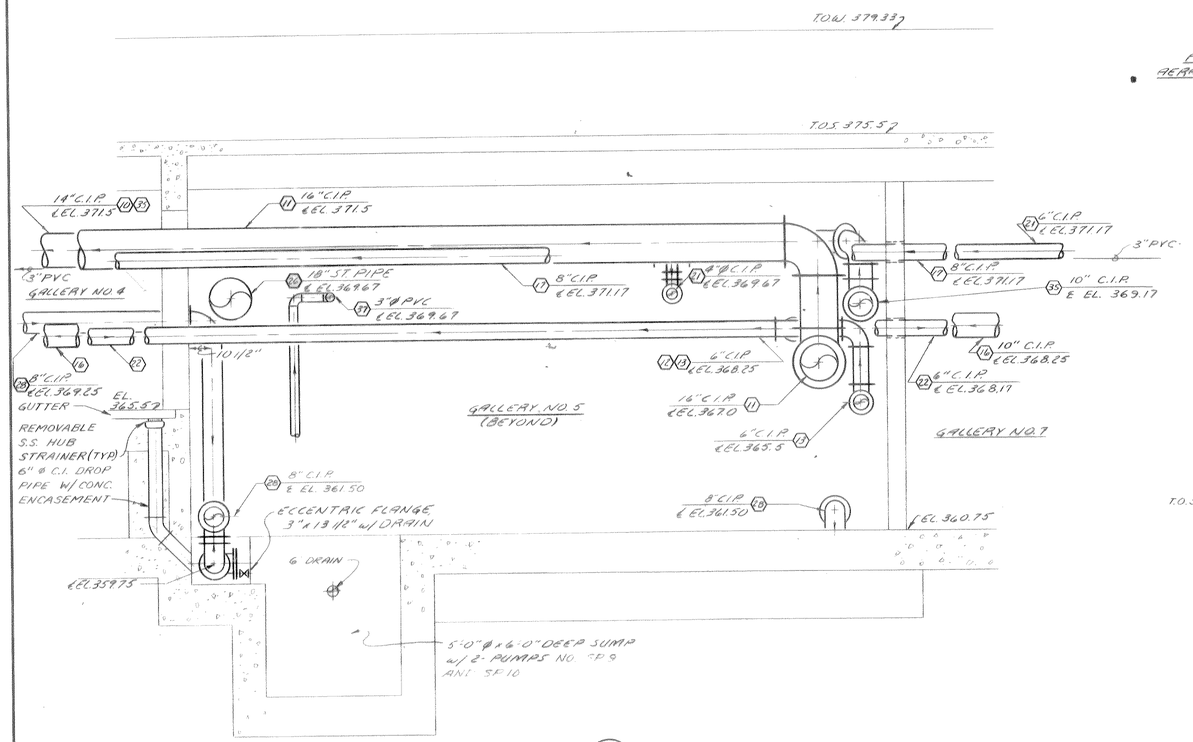
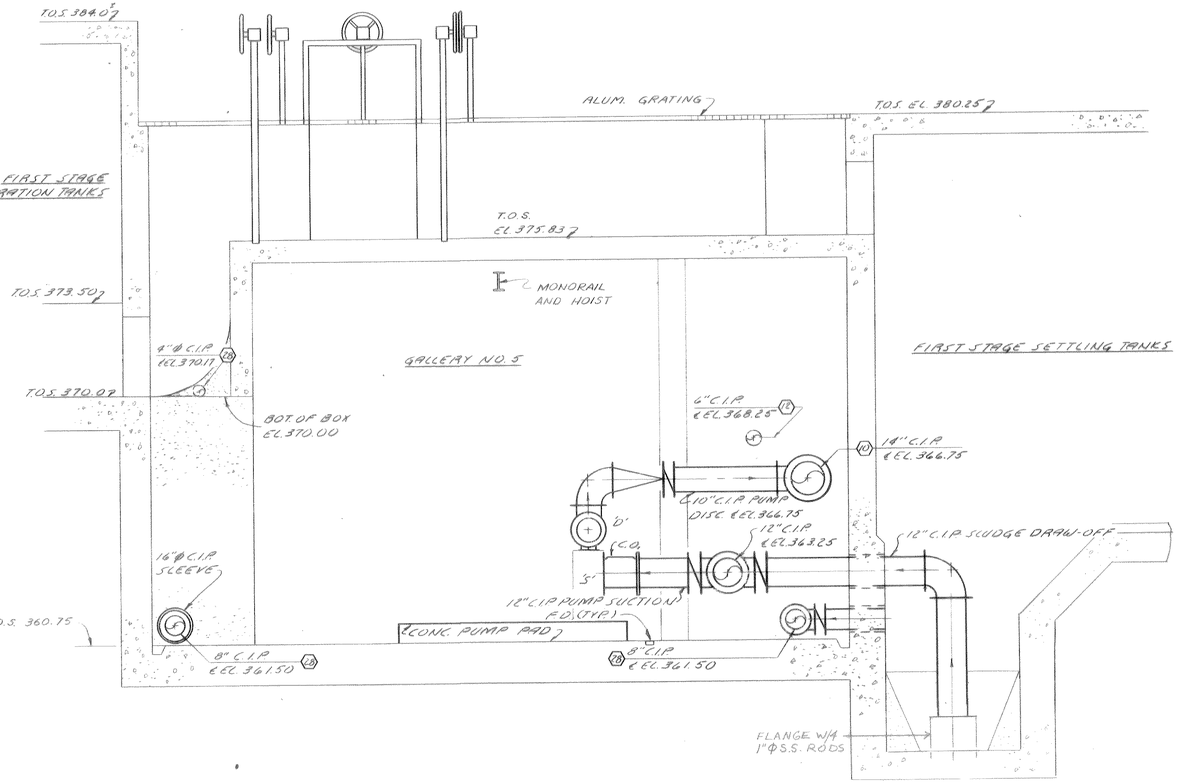


SECTION (5 / M-51)
SCALE 3/8" = 1' - 0"



SECTION (2 / M-49)
SCALE 3/8" = 1' - 0"

PIPING LEGEND

(10) RETURN SLUDGE (FIRST STAGE)
(11) RETURN SLUDGE (SECOND STAGE)
(12) WASTE SLUDGE (FIRST STAGE)
(13) WASTE SLUDGE (SECOND STAGE)
(16) AUXILIARY THICKENER MAKE-UP
(17) THICKENER MAKE-UP

(21) EFFLUENT WATER
(22) DRYING BED FEED
(25) FIRST STAGE SETTLING TANK NO. 2 BYPASS
(26) DRAIN

(15) AUXILIARY RETURN SLUDGE
(27) SUMP PUMPS DISCHARGE

RECORD DRAWING
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Date 9-8-83 Per FLD

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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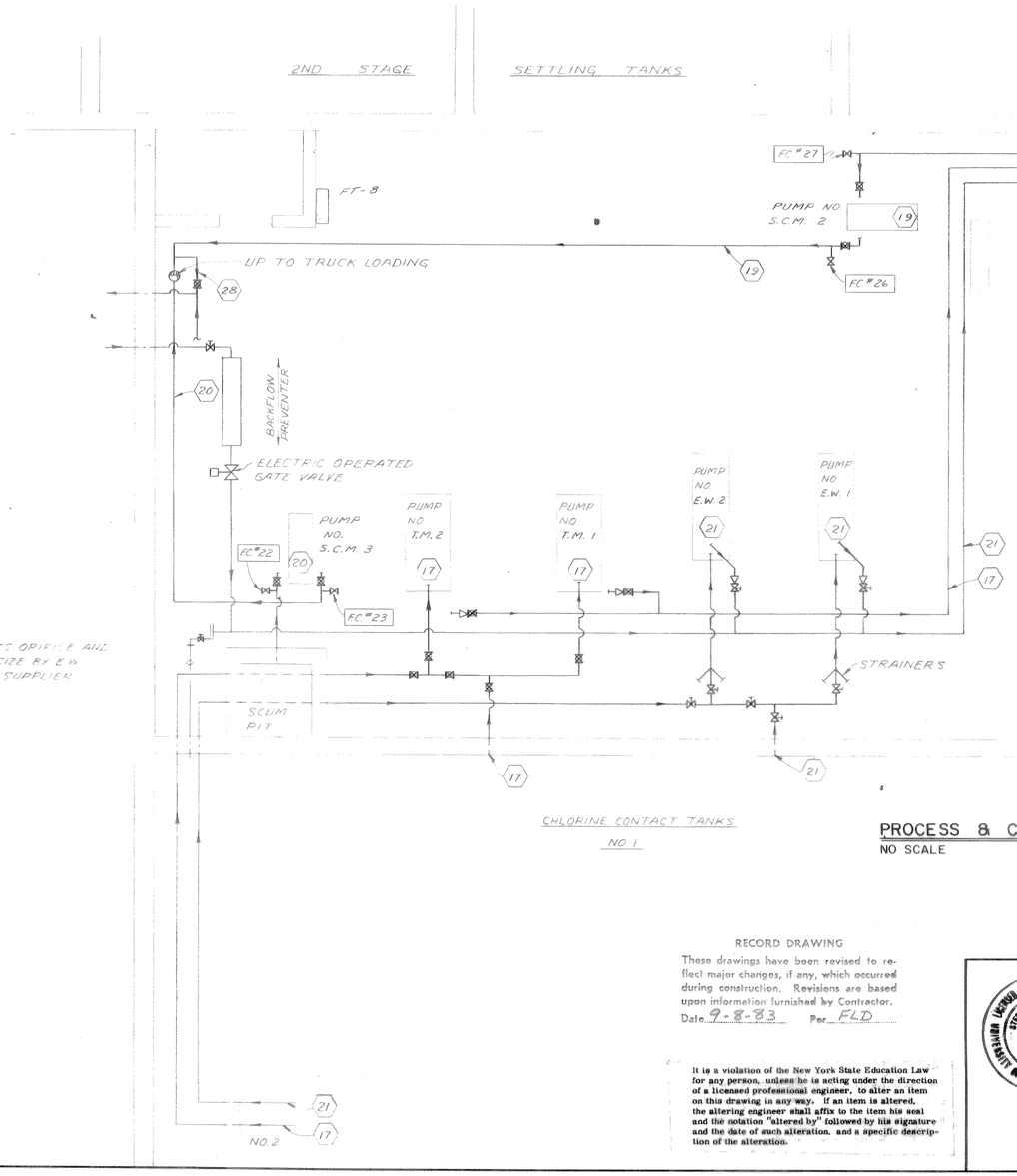
FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/16/83
2	AEF FOR CONSTRUCTION	G.P.V.	1/24/78	P.K.W.	A.F.W./P.K.W.	S.C.B. 2-24-78
1	FOR APPROVALS	G.P.V.	3-30-76	P.K.W.	A.F.W./P.K.W.	S.C.B. 3-31-76

PROJECT SUPERVISOR J. L. Sweeney
APPROVED S. C. Brigham

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 5 - SECTIONS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-56



PROCESS & CHEMICAL PIPING SCHEMATIC

NO SCALE

NOTE:
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FOR PIPING REVISIONS SEE – APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

16 AUXILIARY THICKENER MAKE UP
17 THICKENER MAKEUP
19 SECONDARY SCUM
20 CONTACT TANK SCUM
21 EFFLUENT WATER
22 DRYING BED FEED
28 DRAIN

RECORD DRAWING

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Date 9-8-83 Per F.L.D.

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				K.S	9/8/83
	K.L.S.					
2	FOR CONSTRUCTION				E.L.B	2/24/78
	A.F.W./A.G.S	3-24-78	A.F.W.	A.F.W./P.K.W.		
1	FOR APPROVALS				S.C.B	3-31-76
	A.F.W./A.S	3-30-76	P.K.W.	A.F.W./P.K.W.		

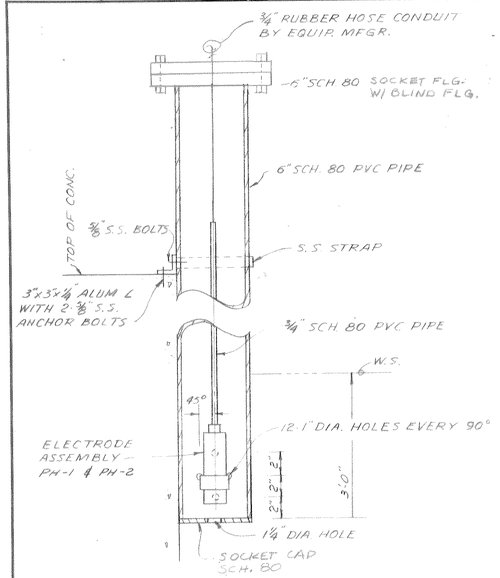
PROJECT SUPERVISOR Joel Swanson APPROVED S.C. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 7 & NO. 8
PROCESS & CHEMICAL PIPING SCHEMATIC

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

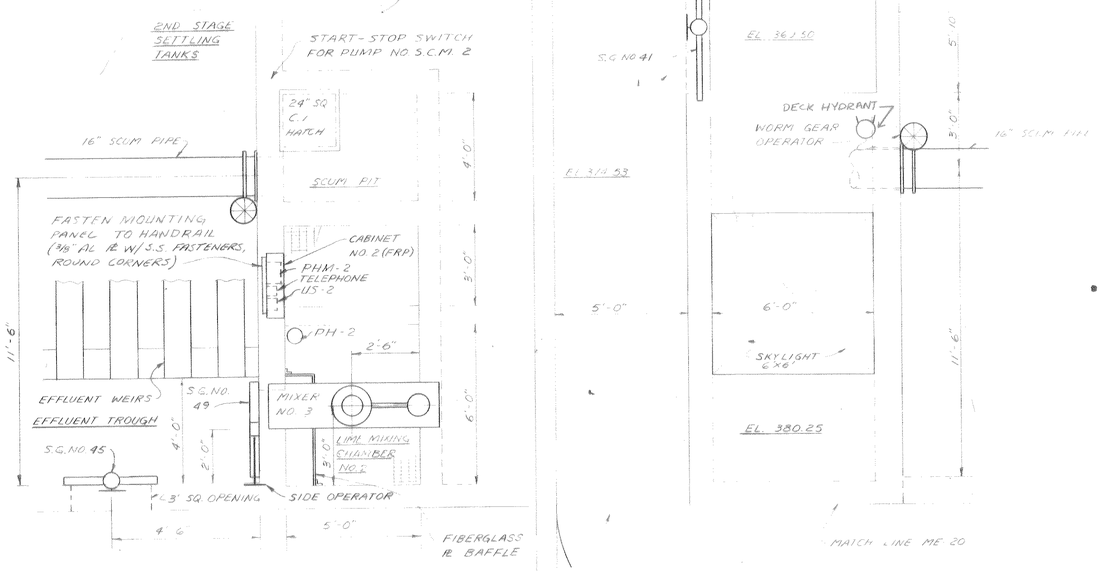
JOB NO. 577 CONTRACT NO. 1 SHEET M-57

112



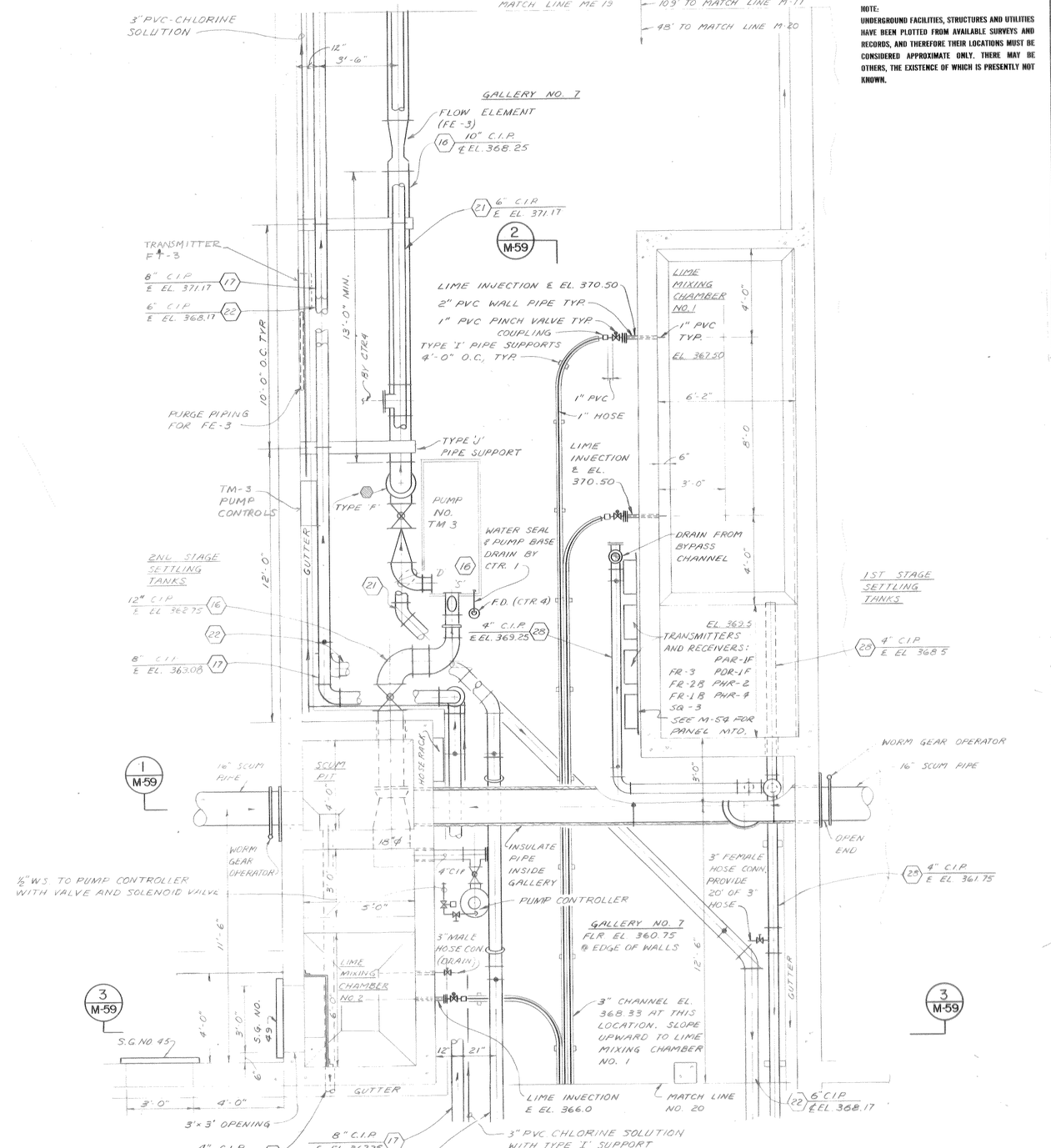
TYPICAL ELECTRODE ASSEMBLY MOUNTING

NO SCALE



PLAN AT ELEVATION 375.50

SCALE 3/8" = 1'-0"



PLAN AT ELEVATION 360.75

SCALE 3/8" = 1'-0"

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

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PIPING LEGEND

(16) (17) AUXILIARY THICKENER MAKE-UP / THICKENER MAKEUP
(19) (21) SECONDARY SCUM / EFFLUENT WATER
(22) (28) DRYING BED FEED / DRAIN

3/8" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION	2/24/78	AFW	PKW	SAB	2/24/78
1	FOR APPROVALS	3-30-76	PKW	AFW/PKW	SAB	3-31-76

PROJECT SUPERVISOR A. F. Wagner
APPROVED S. G. Bragaw

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 7 - UPPER & LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-58

NOTE:
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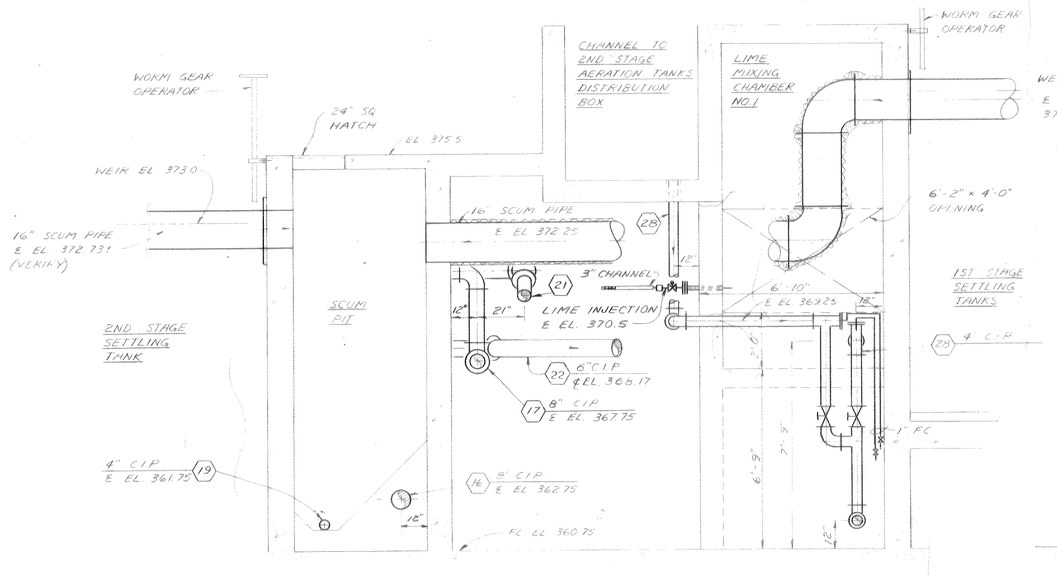
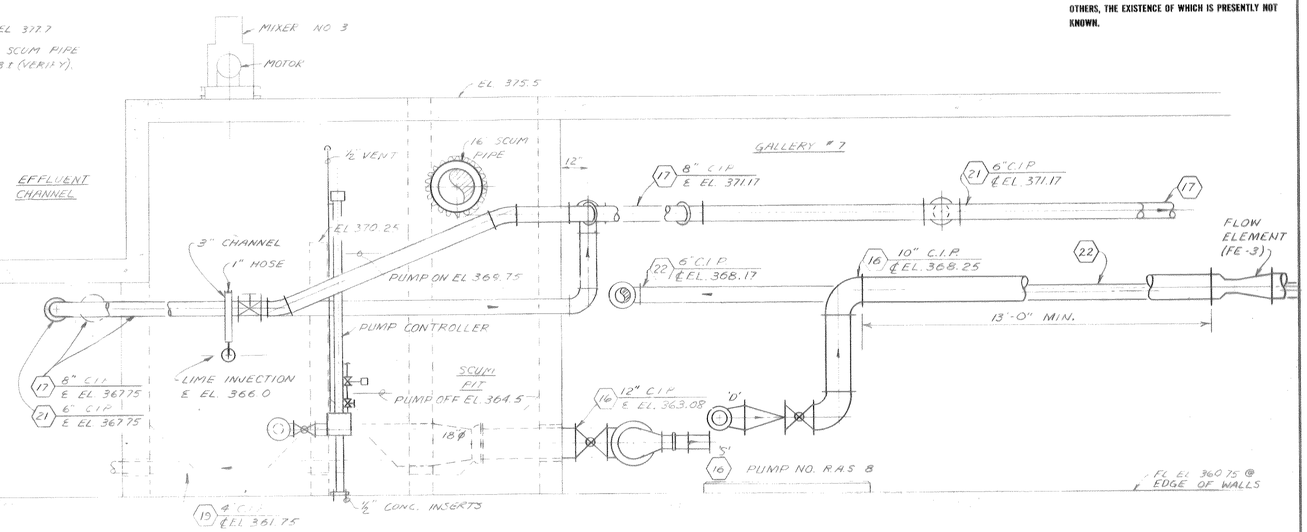
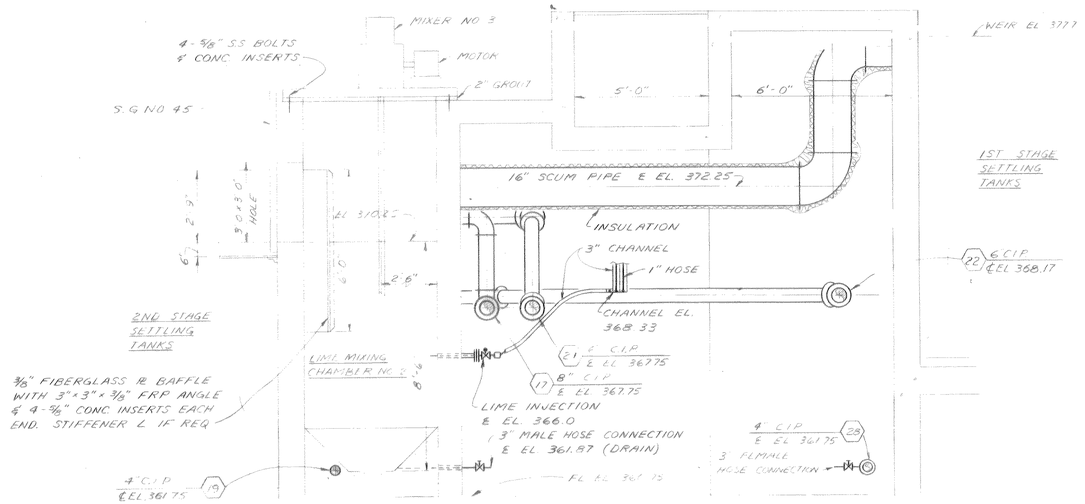


SECTION 1 / M-58
SCALE 3/8" = 1'-0"



SECTION 2 / M-58
SCALE 3/8" = 1'-0"



SECTION 3 / M-58
SCALE 3/8" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per F.L.D

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

PIPING LEGEND

(16) (17) AUXILIARY THICKENER MAKE-UP
THICKENER MAKE-UP
(19) SECONDARY SCUM
(21) (22) EFFLUENT WATER
DRYING BED FEED
(28) DRAIN

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD REF				JLS	9/8/83
2	FOR CONSTRUCTION AFW/AES	2/24/78	PKW	AFW/PKW	SCB	2/24/78
1	FOR APPROVALS AFW/AS	3-30-76	P.K.W.	A.F.W./P.K.W.	SCB	3-31-76

PROJECT SUPERVISOR Joel Lehrmann APPROVED S.C. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO.7 - SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-59

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

INTERSECTION OF GALLERIES NO. 4, 5, 6, & 7

GALLERY NO. 5

(10) (12) 14" C.I.P. ℄ EL. 363.25

(28) 8" C.I.P. ℄ EL. 361.5

SEE STRUCTURAL DRAWINGS FOR LOCATION AND SIZE OF ENTRANCE PORTS TO SETTLING TANKS

INFLUENT TROUGH

CONC. BLOCK WALL

30" TEE RAIL

SLUDGE CROSS COLLECTORS

5'-0"

6"

4'-0"

4'-3"

METAL DIAPHRAGM 2 REQUIRED

METAL STRAPS

2" x 6" T&G WOOD BAFFLE CYPRESS OR REDWOOD

GRATING

SLUDGE DRIVE MECHANISM LOCATION AND SIZE OF ANCHOR BOLTS, SLAB OPENINGS, ETC. BY EQUIP. MFGR. (M)

14'-0"

SLUDGE BLANKET DETECTOR TYP. 5 PLACES FIRST STAGE SETTLING TANKS NO. 1 AND NO. 2 SECOND STAGE SETTLING TANKS NO. 1, NO. 2 AND NO. 3 SEE DETAIL THIS SHEET

DETECTOR BOX

5'-0"

MATCH LINE ME-9

MATCH LINE ME-17

4 / M-62

4 / M-62

GALLERY NO. 7

SETTLING TANKS NO. 2

SETTLING TANKS NO. 1

WALKWAY

155'-0"

20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0"

LIME MIXING CHAMBER NO. 1

30" TEE RAILS

30" TEE RAILS

OPEN END

16" SCUM PIPE

WORM GEAR OPERATORS

WORM GEAR OPERATORS

16" SCUM PIPE

CLOSED END

21'-0"

14'-6"

11'-6"

FINGER WEIR TROUGHS

S.G. NO. 42

S.G. NO. 43

EFFLUENT TROUGH

GRATING

MATCH LINE ME-20

5'-0"

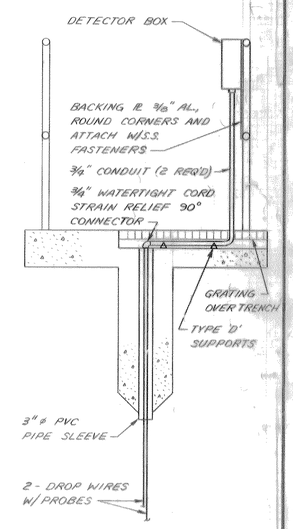
LOWER PLAN

SCALE 1/4" = 1'-0"

UPPER PLAN

NOTE:

SEE STRUCTURAL DRAWINGS FOR LOCATION OF ALL HAND RAILS ETC.



SLUDGE BLANKET DETECTOR DETAIL

NO SCALE

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(10) (12) (28) RETURN SLUDGE (1ST STAGE) WASTE SLUDGE (1ST STAGE) DRAIN

RECORD DRAWING

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Date 9-8-83 Per FLD

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD. KLS-f			JLS		9/8/83
2	FOR CONSTRUCTION	AFN/AES	3/24/78	JLS	AFN/PKW	SGB 2/24/78
1	FOR APPROVALS	AFN/AES	3-30-76	JLS	AFN/PKW	SGB 3-31-76

PROJECT SUPERVISOR APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
FIRST STAGE SETTLING TANKS - UPPER & LOWER PLANS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-60

NOTE:
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8" C.I.P. E EL. 361.50 (28)
14" C.I.P. E EL. 363.25 (11) (13)
MATCH LINE ME-17
INFLUENT CHANNEL
SEE STRUCTURAL DRAWINGS FOR LOCATION & SIZE OF ENTRANCE PORTS TO SETTLING TANKS
GALLERY NO. 6
14" C.I.P. E EL. 363.25 (11) (13)
8" C.I.P. E EL. 361.50 (28)
MATCH LINE ME-17
INTERSECTION OF GALLERIES NO. 4, 5, 6 & 7
5 / M-63
GRATING
SLUDGE CROSS COLLECTORS
5'-0"
4'-0"
3'-0"
5'-0"
30 "TEE RAILS
5 / M-63
GALLERY NO. 7
LOCATION AND SIZE OF ANCHOR BOLTS, SLAB OPENINGS, ETC. BY EQUIP. MFGR.
2"x6" WOOD BAFFLE T+G SEE DETAIL SH. M-32
METAL DIAPHRAGM 3 REQUIRED
METAL STRAPS
METAL DIAPHRAGM
SLUDGE BLANKET DETECTOR SEE DETAIL SHEET M-60
SLUDGE BLANKET DETECTOR SEE DETAIL SHEET M-60
30 "TEE RAILS
SLUDGE BLANKET DETECTOR SEE DETAIL SHEET M-60
MATCH LINE ME-18
155'-0"
20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0" | 12" | 20'-0"
SETTLING TANKS NO. 3
SETTLING TANKS NO. 2
SETTLING TANKS NO. 1
16" SCUM PIPE
WORM GEAR OPERATORS
WORM GEAR OPERATORS
OPEN END
SCUM PIT
CLOSED END
11'-6"
14'-0"
FINGER WEIR TROUGHS (FRP)
5'-10" TYP.
METAL EFFLUENT TROUGH
4'-0" x 3'-0" OPENING
(6) 4-½" HOLES PER TROUGH
S.G. NO. 49
LINE MIXING CHAMBER NO. 2
S.G. NO. 48
S.G. NO. 47
S.G. NO. 46
S.G. NO. 45
MATCH LINE ME-20
EFFLUENT TROUGH
12" TYP
6" TYP
12" TYP
4'-0" | 3'-0" | 6'-0" | 3'-0" | 4'-0" | 4'-0" | 3'-0" | 6'-0" | 3'-0" | 4'-0"
12"

PLAN
SCALE 1/4" = 1'-0"

RECORD DRAWING
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Date 9-8-83 Per FLD

1/4" = 1'0" 2 0 2 4 6 8 10

PIPING LEGEND
(11) (13) RETURN SLUDGE (2ND STAGE) / WASTE SLUDGE (2ND STAGE)
(28) DRAIN

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
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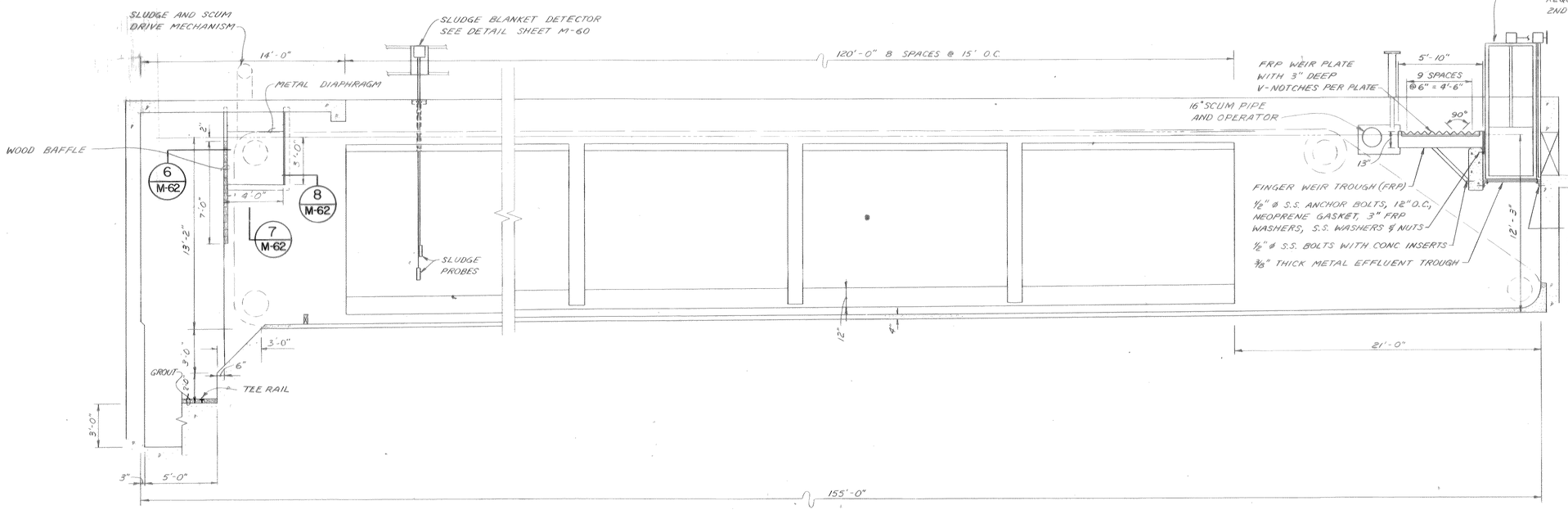
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION				S.G.B	2/24/78
1	FOR APPROVALS				S.G.B	3-31-76
	AFW/JAES	3/24/78	J.L.S.	AFW		
	AFW/JAS	3-30-76	J.L.S.	AFW		

PROJECT SUPERVISOR Jack L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
SECOND STAGE SETTLING TANKS - UPPER & LOWER PLANS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-61



TYPICAL SECTION
1st AND 2nd STAGE SETTLING TANKS
SCALE 1/4" = 1'-0" 5 REQUIRED

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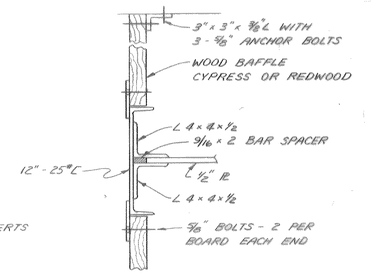
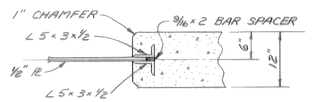
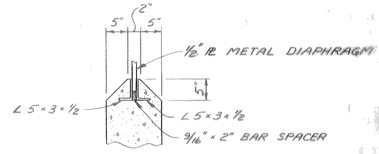


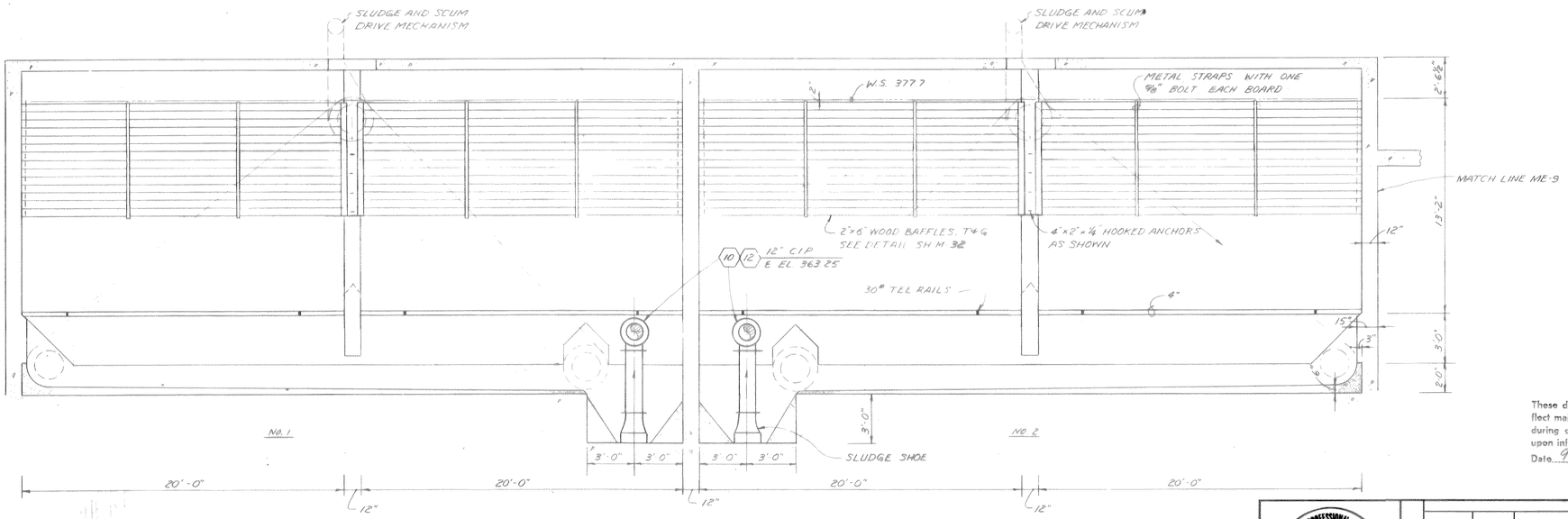
SECTION 6 M-62
SCALE 1 1/2" = 1'-0"



SECTION 8 M-62
SCALE 3/4" = 1'-0"



SECTION 7 M-62
SCALE 3/4" = 1'-0"



SECTION 4 M-60
SCALE 1/4" = 1'-0"

PIPING LEGEND
10 RETURN SLUDGE (1ST STAGE)
12 WASTE SLUDGE (1ST STAGE)

1½" = 1'0" 1 6 0 1
¾" = 1'0" 1 0 1 2 3
¼" = 1'0" 2 0 2 4 6 8 10

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RECORD DRAWING
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Date 9-8-83 Per F.L.D.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK
A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD RLS				LJS	9/6/83
2	FOR CONSTRUCTION AFW/AES	2/14/78	J.L.S.	AFW	S.G.B.	2/24/78
1	FOR APPROVALS AFW/AES	9-30-76	J.L.S.	AFW	S.G.B.	11-30-76

PROJECT SUPERVISOR Joel L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
1ST & 2ND STAGE SETTLING TANKS - SECTIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 1 SHEET M-62

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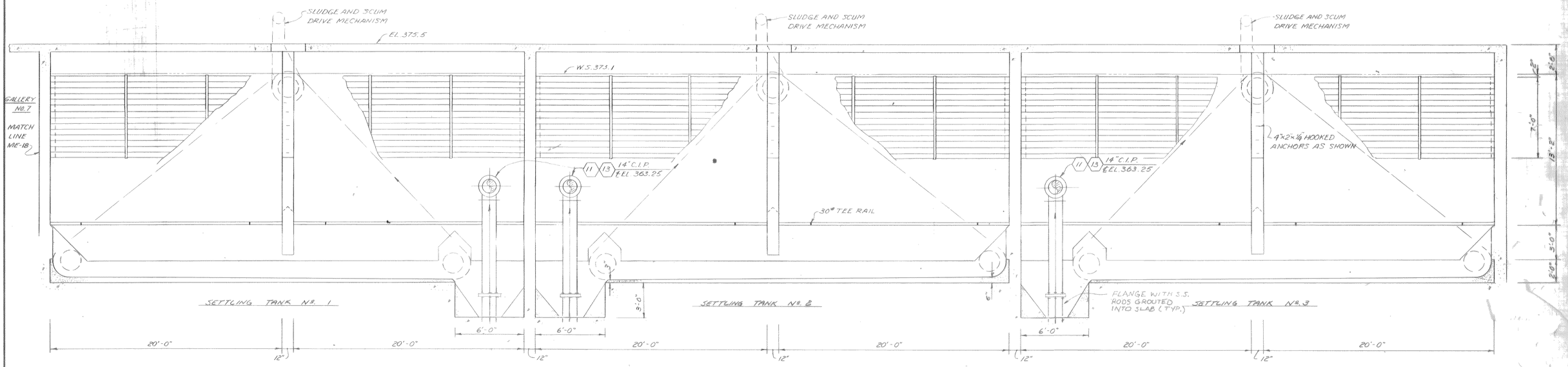

SECTION (5 / M-61)
SCALE 1/4" = 1'-0"

PIPING LEGEND

(11) RETURN SLUDGE (2ND STAGE)
(13) WASTE SLUDGE (2ND STAGE)

RECORD DRAWING
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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE APPROVED INSTALLATION DRAWINGS

1/4" = 1'0" 2 0 2 4 6 8 10

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LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK

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ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					JLS	9/6/83
2	FOR CONSTRUCTION	AFW	2/24/78	JLS	AFW	SGB	2-24-78
1	FOR APPROVALS	A.F.W.	3-30-76	J.L.S.	A.F.W.	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Swanson — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
2ND STAGE SETTLING TANKS-SECTION

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-63

MATCH LINE ME 20

2ND STAGE SETTLING TANKS EFFLUENT CHANNEL

BOTTOM OF CHANNEL EL. 369.58

S.G. NO. 44

S.G. NO. 37

BOTTOM OF CHANNEL EL. 374.5

S.G. NO 43

T.O.W. EL. 380.25

19 20 6" C.I.P. ℄ EL. 385.5

4"-3 PLY NEOPRENE HOSE

10 M-64

MONORAIL SUPPORTING FRAMEWORK SEE STRUC. DWGS FOR DETAILS

FLEXIBLE COUPLING

2-4" STEEL PIPES - LIME FEED

3"x3"x3/8" ℓ's TYPE 'A' PIPE HANGERS

EL. 375.5 FIN. FL.

FIBERGLASS GRATING

19'-0"

3'-6"

12'-6"

FIBERGLASS RAILING

FIBERGLASS GRATING

GATE

RAILING ON TANKS NO. 1, 2 & 3 BY TANK MFG. SEE SH. G13 & 14

BOTTOM OF CHANNEL EL. 369.58

RAILING

4 R MIN

8" INSP. PORT

30" HATCH

LIME STORAGE BIN NO. 2

30" HATCH

8" INSPECTION PORT - QUICK OPENING - TYP. 3 PLACES

VENT THRU ROOF

FAN

AIR

LIME STORAGE BIN NO. 3

FL. EL. 376.0

GRATING EL. 386.0

3/4" AIR

3" PVC SUMP PUMP DISCH.

28 6" C.I.P. EL. 385.5

SLAKER VENT - 3" UP THRU ROOF

MATCH LINE ME 21

19'-6"

7'-0"

12" SQ x 10" DEEP SUMP

3'-0"

T.O.W. EL. 380.25

CHLORINE SOLUTION DISTRIBUTION HEADER

MIXER

ONE TON CYLINDERS

WOOD BLOCKS WITH 1/2" ANCHOR BOLTS

F.D.

EVAPORATOR (EL. 396.5)

CHLORINATORS NC FD NC FD

FUTURE FD INJECTOR

NON-PROPORTIONING SOLUTION DISTRIB.

DIAL INDICATORS

LOAD CELLS SCALES

MONORAIL

CHLORINE STORAGE ROOM

CHLORINE DETECTORS

3/16"x16" DIA. DUCT CASE 4"ϕ PVC LONG RAD. SLEEVES W/ 3"ϕ CHLORINE SOLUTION PIPE (POLYETHYLENE)

2'-0"x2'-0" C.I. HATCH

SCUM PIT

2"ϕ PVC SAMPLER LINE

WORM GEAR OPERATORS (2)

WEIR ℞ LL 371.8 SEE SH M 67 FOR TYP. WEIR DETAILS. 12" D SCUM PIPES (2)

21 6" C.I.P. ℄ EL. 364.75

17 8" C.I.P. ℄ EL. 364.75 THICKENER MAKEUP PUMP DRAWOFF

8" GUTTER

21 6" C.I.P. ℄ EL. 370.75 EFFLUENT PUMP DRAWOFF

1'-0"

1'-2"

BASKET STRAINER - SEE NOTES BELOW

CHLORINE CONTACT TANKS NO. 1 FL. EL. 362.75

28 5" C.I.P. ℄ EL. 362.17

CONCRETE BLOCK WALL

BOTTOM OF CHANNEL EL. 362.75

S.G. NO. 50

T.O.W. EL. 375.5

S.G. NO. 51

11 M-66

T.O.W. EL. 376.5

NO. 2

8" GUTTER

12" SQ x 10" DEEP SUMP

T.O.W. EL. 374.5

BASE ELBOW

ANCHOR RISER TO WALL 2'-0"x2'-0"-1/2" ALUM. PLATE W/ 6"ϕ HOLE IN CENTER BOLTED TO ELBOW FLANGE

BASKET STRAINER - SEE NOTES BELOW.

℄ 6" ELBOW 370.75

8" C.I.P. ℄ EL. 364.75 THICKENER MAKEUP PUMP DRAWOFF

17

EFFLUENT CHANNEL

6-9"

CRANE SUPPORTING FRAMEWORK

1/4 CABLE S.S.

4" 3 PLY NEOPRENE HOSE

℄ EL. 385.5 REF. 11-7

11 M-66

6" DRAIN PIPE & VALVE WITH EXTENDED STEM, OPERATING NUT & STEM SUPPORTS (2 R&D), ℄ EL. 367.25

WEIR ℞ 371.8 SEE SH. M 67 FOR TYPICAL WEIR DETAILS.

54 OUTFALL PIPE INV. EL. 362.0

CLOSED END

2"ϕ PVC EFFLUENT SAMPLE LINE INV. EL. 366.0 ± OR TO MEET CONC. FILL ELEVATION IN CHANNEL - BEVEL PIPE END AS REQ.

4'-0"

77'-0"

19 20 6 C.I.P.

EL. 375.5

GALLERY NO. 8

RECORD DRAWING

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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

17 19 20 21 23 — THICKENER MAKEUP, SECONDARY SCUM, CONTACT TANK SCUM, EFFLUENT WATER, DRAIN

SECTION

SCALE 1/4" = 1'-0"

10 M-64

BASKET STRAINERS

1. FABRICATE THREE SIDES, TOP AND BOTTOM FROM 1/8" ALUMINUM PLATE WITH 1/8" HOLES AT 1/4" O.C. TWO EDGES OF OPEN SIDE TO BE FLANGED TO FIT EXTRUDED GUIDES.
2. PROVIDE 3/8" ϕ S.S. BAIL HANDLE ON STRAINER WITH 3/16" DIA. S.S. CABLE ATTACHED. CLAMP 2 1/2" ϕ S.S. RING TO LOOSE END OF CABLE.
3. FOR EACH STRAINER INSTALL TWO EXTRUDED ALUMINUM GUIDES ON WALL OR ALUMINUM PLATE AND EDGE OF PLATFORM AS CASE APPLIES. LENGTH OF GUIDES - 4'-9". WELD STOP BAR BETWEEN BOTTOMS OF GUIDES.
4. BASKET STRAINERS MAY BE PURCHASED FROM AVAILABLE STOCK.

PLAN

SCALE 1/4" = 1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

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3	RECORD KLS				JCS	9/8/83
2	FOR CONSTRUCTION				SGB	2-24-78
	A.F.W./W.G.	2/24/78	P.K.W.	A.F.W./P.K.W.		
1	FOR APPROVALS				SGB	3-31-76
	A.F.W./W.G.	3-30-76	P.K.W.	A.F.W./P.K.W.		

PROJECT SUPERVISOR Joel T. Stevens — APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE

GALLERY NO. 8 & CHLORINATION - UPPER PLAN

Stearns & Wheler

CIVIL AND SANITARY ENGINEERS

CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-64

11 M-66

119

2ND STAGE SETTLING TANKS

TOILET ROOM

8' WORK BENCH WITH VISE

HOSE BIBB

HOSE RACK

FOR MTD PANEL SEE M-54

WIRING BY CTR. 2

FT-8 & PIPING BY CTR. 1

OUTLINE OF 2ND STAGE CHANNEL ABOVE

PUMP NO. SCM. 2

BY CTR NO. 4

1½" CU

CU PUMP BASE DRAIN

FOR CONTINUATION OF PIPING SEE G-7

9'-3"

CIP TO A.C. ADAPTER

8" CIP

FC.

MECHANICAL SEAL TYPE 'G'

8" C.I.P. ℄ EL 361.5

6" A.C. WITH 3 ℔ POLYETHYLENE

6" C.I.P. EL. 365.02±

6" CIP

6 W x 9 H CONC. CURB @ BP

BACKFLOW PREVENTER (8" P)

6" C.I.P. N.P.W. E EL 362.75

ELECTRIC OPERATED GATE VALVE

SCUM PUMP

PSI GAGE

4" C.I.P. E EL 363.75 BY CTR NO. 4

PUMP NO. SCM. 3

1" CU BASE DRAIN TO F.D. (TYP.)

3" PVC CHLORINE SOLUTION TO MH. 1

TYPE 'H' SUPPORTS @ 4'-0" O.C. MAX.

2-12" ST SLEEVES

HOSE RACK

HOSE BIBB

4" C.I. SLEEVE

2" ℔ PVC SAMPLE LINE E EL 366.0 TYPE 'D' SUPPORTS (TYP.)

BYPASS ORIFICE AND PIPE SIZE BY E.W. PUMP SUPPLIER

4" ℔ PVC SLEEVES W/ 3" ℔ SOLUTION PIPE W/ S.S. CLAMPS & MECH. SEAL @ EACH END.

6" C.I.P. E EL 364.75 FROM CHLORINE CONTACT TANK NO. 2

8" C.I.P. E. EL 364.75

EFFLUENT WATER PUMPS

PUMP NO. E.W. 2

PUMP NO. E.W. 1

THICKENER MAKEUP PUMPS

PUMP NO. T.M. 2

PUMP NO. T.M. 1

6" C.I.P. E EL 367.75

8" C.I.P. E EL 367.75

8" C.I.P. E EL 362.75

8" C.I.P. E EL 369.75

3" PVC CHLORINE SOLUTION W/ TYPE I SUPPORT

CLEANOUTS

6" STRAINER

CONCRETE SUPPORTS

1" ℔ CU DRAINS WITH G.V.

SAMPLER

BALL VALVE (TYP.)

6" STRAINER

TEE W/ FC (TYP.)

PLUG

3" PVC EL TO MEET EQUIP.

6" C.I.P. E EL 370.75

8" C.I.P. E EL 362.17

16' SQ. 10' DEEP

7'-0"

2'-6"

16'-0"

14'-0"

4'-0"

2'-0"

1'-6"

6" C.I.P. E EL 370.0

GALLERY NO. 8 FL EL 360.75 @ EDGE OF WALLS

4" C.I.P. E EL 361.75

6" C.I.P. E EL 367.75

8" C.I.P. E EL 367.75

6" ℔ CI DROP PIPE GUTTER

REMOVABLE S.S. HUB STRAINER

6" ℔ CI DRAIN SEE NOTE 1

3" P.V.C. CHLORINE SOLUTION TO GALLERY NO. 7 SEE SH. M-90 & M-91

CHANNEL EL. 368.33

GALLERY NO. 8

MATCH LINE ME 20

6" C.I.P. E EL. 368.17

3" CHANNEL TYP.

TYPE 'I' PIPE SUPPORTS 4'-0" O.C. TYP.

SUPPORT L 4" x 4" x ⅜" THICK x 8'-0 LG, FASTEN TO 8'-0" CONC. OPENING ABOVE

CLIP L 4" x 4" x ⅜" THICK x 6" LG 5/8" ℔ BOLTS W/ CONC. INSERTS 2 REQUIRED

⅝" ℔ BOLTS, NUTS, WASHERS

LIME SLURRY FEED PUMPS

EYE WASH & SHOWER

HOSE BIBB

HOSE RACK

SUMP PIT F.C.

REMOVABLE S.S. HUB STRAINER SEE SECT. S SHEET S6

6" ℔ C.I. DROP PIPE

SUMP PUMPS CONTROL PANEL

11¼° BEND

℄ EL 367.75

5' ℔ x 6' DEEP SUMP

DOWN

PUMP NO. L.S.F. 6

PUMP NO. L.S.F. 5

PUMP NO. S.P. 11

PUMP NO. S.P. 12

FLR. EL. 359.0 @ EDGE OF WALLS

FIBERGLASS COVERS (TYP.)

PUMP BASES 18" HIGH

MIXER

LIME SLURRY HOLDING TANK (1000 GAL) SENSOR HEAD

PUMP NO. L.S.F. 4

WELD BRACKET TO TANK SHELL

UNIONS

LIME SLURRY HOLDING TANK (1000 GAL) SENSOR HEAD

6" ℔ CI DRAIN SEE NOTE 1

CTR. 4

CTR. 1

AUXILIARY

3" ℔ PVC OVERFLOW

2" ℔ FEED

1½" ℔ PVC

TYPE 'G' PIPE SUPPORT WITH BOND BREAKER BETWEEN CONCRETE AND PIPE

3" ℔ W/ QUICK COUPLING AND CAP

3" ℔ PVC OVERFLOW

6" ℔ CI DROP PIPE WITH REMOVABLE S.S. HUB STRAINER

E.W. PUMPS CONTROL PANEL

3" ℔ PVC SAMPLER DRAIN

OUTLINE OF OPENING ABOVE

3" ℔ W/ QUICK COUPLING

2" x 3" INCREASER SLOPE FEED @ 22½° ± TO LIME SLURRY TANK (TYP.)

REMOVABLE S.S. HUB STRAINER

6" ℔ CI DROP PIPE

MATCH LINE ME-3

F.D.

CONTROL PANEL

GRIT CONTAINER

CONTROL PANEL

FL EL 364.0 @ EDGE OF WALLS AND EDGE OF CURB

EYE WASH & SHOWER

6" C.I.P. E EL 365.0

3" VENT TO ROOF

3" PVC CHLORINE SOLUTION PIPE, SUPPORT FROM WALL, MAX. SPACING 4'0" C.C. TYPE 'D'

3" ℔ PVC SUMP DISCHARGE WITH TYPE 'D' SUPPORTS

SYSTEM ELECTRONICS

2" ℔ PVC SAMPLE LINE FLUSH W/ CHANNEL WALL @ E EL. 370.0

3" PVC SUMP PUMP DIS.

DIGITAL WEIGHT INDICATOR

MATCH LINE ME-21

CHANNEL TO CHLORINE CONTACT TANKS EL. 369.50

GUTTER

2" ℔ PVC SAMPLE LINE

TYPE 'D' SUPPORTS (TYP. 3" & 2" ℔ PVC) 4'-0" O.C.

BALL VALVE & UNION

12 M-66

14 M-65

13 M-65

20

21

17

19

28

22

25

PLAN

SCALE 3/8" = 1'-0"

6" C.I.P. E EL. 370.0

'D'

4" C.I.P.

'S'

PUMP NO. SCM 2

FL. EL. 360.75 @ EDGE OF WALLS

SECTION 13 M-65

SCALE 3/8" = 1'-0"

6" C.I.P. E EL. 370.0

EFFLUENT CHANNEL

OPEN CHANNEL CHLORINE DIFFUSER

EL. 369.75

6" C.I.P.

PSI GAGE

8" C.I.P. E EL. 361.50

6" C.I.P. E EL. 365.02±

UP TO TRUCK LOADING

4" PRESSURE REDUCING VALVE

TOILET ROOM

8'-0"

6" C.I.P. N.P.W. E EL. 362.75

6" A.C.

E 363.0

4" C.I.P.

3" P.V.C.

FL. EL. 360.75

BACKFLOW PREVENTER

SECTION 14 M-65

SCALE 3/8" = 1'-0"

RECORD DRAWING

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Date 9-8-83 Per FLD

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

LEGEND

1 - HYDRAULIC LOAD CELL
2 - CYLINDER VALVES.
3 - ⅜ SEAMLESS COPPER FLEX. CONN'S.
4 - CHLORINE HEADER VALVES.
5 - SCH 80 SEAMLESS CARBON STEEL PIPE.
6 - WEIGHT INDICATORS
7 - AUTOMATIC SWITCH OVER SYSTEM
8 - VALVES
9 - STRAINERS
~~10 - SWITCH OVER BYPASS~~ DELETED
11 - WATER SUPPLY.
12 - VENT TO ATMOSPHERE.
13 - NON-PROPORTIONING SOLUTION DISTRIBUTOR
14 - INJECTORS

NOTES

1. 6" ℔ CI DROP PIPE FROM GUTTER TO SUMP - USE SWEEPING BENDS TO MEET ELEVATION & TYPE IV CONC. ENCASEMENT. INV. EL 6" ℔ CIP @ SUMP 354.75 (TYP.)

3/8" = 1'-0"

PIPING LEGEND

17 18 20 21 22 23 — THICKENER MAKEUP SECONDARY SCUM CONTACT TANK SCUM EFFLUENT WATER DRYING BED FEED DRAIN

WELD 2"x2"-¼" L TO ¼ STEEL PL. 3 REQ'D

⅝" CINCH ANCHOR BOLTS - 2 EA.

TO INFLUENT M.H. 1

TO DISTRIBUTION PANEL AT GAL. NO. 8

TO CHLORINE TANKS NO. 1 & NO. 2

MAN. AUTO.

NO. 1 NO. 2 CHLORINATORS

CHLORINE PIPING DIAGRAM

NO SCALE

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	KLB				JLS	5/16/79
2	FOR CONSTRUCTION W.H./AES 9/24/78		P.K.W.	A.F.W./P.K.W.	SCB	2-24-78
1	FOR APPROVALS A.F.W./A.S. 3-30-76		P.K.W.	A.F.W./P.K.W.	SCB	3-31-76

PROJECT SUPERVISOR Jack Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 8 & LOWER PLAN & CHLORINE DIAGRAM

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-65

CHLORINE STORAGE ROOM

SCUM PIPE OPERATOR AND 4 ⅝" ANCHOR BOLTS

CLAMP S.S. SNAP TO RAILING ABOVE BASKET STRAINER

BASKET STRAINER - SEE NOTES, SH. M-64

WEIR EL 378

3'-0"

3'-9"

1'-6"

2'-0" x 2'-0" x ½" ALUM. PLATE

12" D SCUM PIPE

8'-10"

6'-0"

2'-0"

2" ϕ PVC SAMPLE LINE E EL. 366.0±

8" CIP E EL 369.75 (17)

6" CIP E EL 369.75 (21)

4'-0"

8"

EL. 379.5

EL. 362.75

77'-0"

SECTION (11 / M-64)

SCALE 1/4" = 1'-0"

MIXER WITH ANCHOR BOLTS, ETC. AS REQ'D.

S.G. NO. 51

2" GROUT

4 - ⅝" ϕ CONC. INSERTS

CONCRETE BLOCK WALL - LAY ALTERNATE BLOCKS WITH HOLES HORIZONTAL

8'-10"

OPEN CHANNEL CHLORINE DIFFUSER

3" VENT RETURN BEND (SLAKER).

2'-0" MIN.

UNDERSIDE OF ROOF

NOTE SEE ARCH'S.-STRUC. DWG'S FOR DETAILS OF RAILINGS, GRATING AND STAIRS.

5"x3"x⅜" L's

CRANE RAIL

STRUCTURAL FRAMEWORK SEE STRUCTURAL DWG'S FOR DETAILS

TYPE 'A' PIPE HANGERS

6" SLOPE

4" STEEL PIPES (LIME FEED)

EXPANSION JOINTS

SEE ARCH'S DWGS FOR DETAILS

MONO RAIL

3/4"

FILTER

AIR SUPPLY BY CTR. 4

RAILING

INTERCONNECTING VENT PIPE - 4"

EXPANSION JOINTS TARGET BOX

EL. 386.0

3" AIR GAP

EL. 384.0

8"x6" REDUCER

LIME STORAGE BIN NO. 2

LIME STORAGE BIN NO. 3

EL. 370.0

CONE

ACTIVATOR

LOAD CELLS AND SUPPORTING EQUIP. 3 PER BIN

3" PVC SCALER VENT

FLEX. CONN

3" PVC, SLUMP PUMP DISCHARGE

CHLORINE SOLUTION PIPE 3" PVC

2" ϕ PVC

ROTARY VALVE FEEDER

2" ϕ PVC E EL. 370.5

GRIT CHUTE

FEEDER

SLAKER

GRIT CONTAINER

CONCRETE PAD

EL. 364.0

7'-6"

3'-6"

3'-0"

2'-6"

5'-6"

LIME FEED CONNECTIONS (2) W/ 4" QUICK LOCK COUPLING W/ CHAIN & CAP

6" CIP (19) (20)

EL 375.5

GALLERY NO. 8

CHLORINE SOLUTION PIPE 3" PVC

19'-0"

4'-0"

8" CIP E EL 369.75 (17)

6" CIP E EL 369.75 (21)

SCUM PIT 4" CI SLEEVE W/ 2" ϕ PVC

15" 18" 15"

6" CIP - N.P.W. E EL 367.75

6" CIP E EL 367.75 (17)

8" CIP E EL 367.75 (17)

2" ϕ PVC SAMPLE LINE E EL 366.0

2-12" STEEL SLEEVES

6" CIP E EL 365.0± (20)

(11)

"D"

F.C.

5'-0"

10'-0"

4'-0"

"S"

8" CIP E EL 361.5 (28)

1-16" STEEL SLEEVE

TM-2 THICKENER MAKEUP PUMPS

TM-1

EW-2 EFFLUENT WATER PUMPS

EW-1

8" CIP E EL 362.75 (17)

& PUMP "S"

4" GW PRESSURE TAP TO E.W. PUMPS CONT.

6" CIP E EL 367.75 (21)

2" ϕ PVC SAMPLE PIPE

8" CIP E EL 367.75 (17)

6" CIP E EL 365.0 (28)

BY CTR NO. 4

6" CIP E EL 367.75 (21)

2" ϕ PVC TO SAMPLER

6" CIP E EL 362.17 (28)

EL 360.75

8" CIP E EL 361.5 (28)

SLURRY FORMATION EQUIP.

4'-0" 10'-6" 3'-6" 5'-3" 7'-0" 3'-3" 3'-3" 3'-3" 2'-6" 2'-6" 13'-6" 14'-6" 7'-0"

SECTION (12 / M-65)

SCALE 3/8" = 1'-0"

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

1/4" = 1'0" 2 0 2 4 6 8 10

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

(17) (19) THICKENER MAKEUP / SECONDARY SCUM
(20) (21) CONTACT TANK SCUM / EFFLUENT WATER
(22) (28) DRYING BED FEED / DRAIN

RECORD DRAWING

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Date 9-8-83 Per FLD

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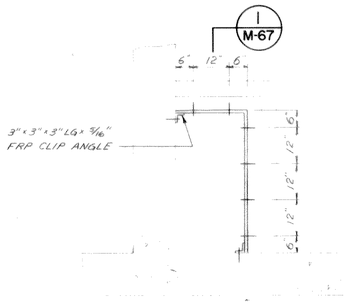
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AEF				JLS	9/8/83
2	FOR CONSTRUCTION				SCLB	2-24-78
	AFW/WES 2/24/78		PKW	AFW/PKW		
1	FOR APPROVALS				SCLB	3-31-76
	AFW/JA 3-30-76		PKW	AFW/PKW		

PROJECT SUPERVISOR Jack L. Swanson — APPROVED S. C. Bristow

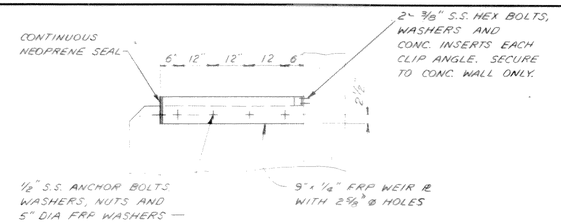
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 8 & CHLORINATION - SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
GAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-66

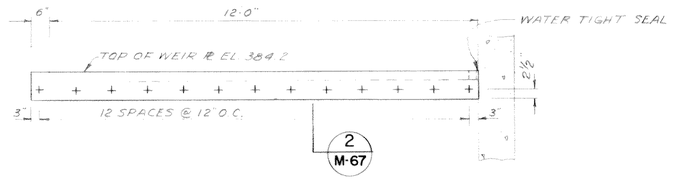


PLAN

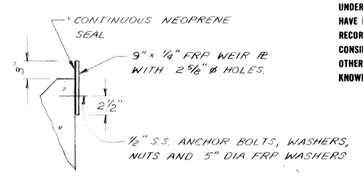


SECTION 1 M-67

DIGESTER WEIR DETAILS
SCALE 1/2" = 1'-0" 3 REQUIRED



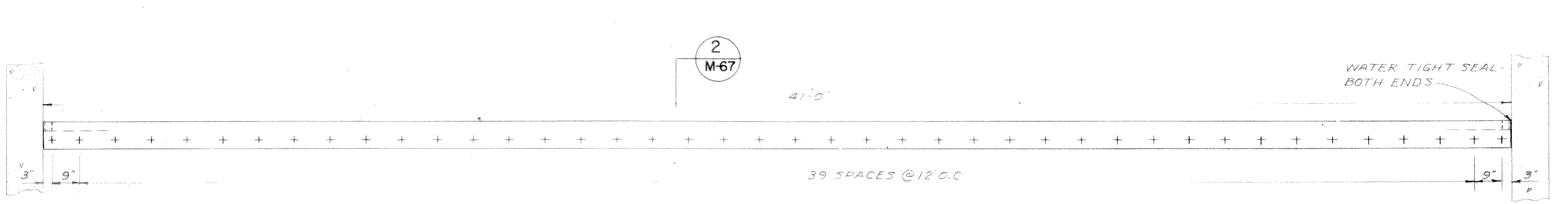
AERATED GRIT CHAMBER WEIR DETAIL
SCALE 1/2" = 1'-0" 2 REQUIRED



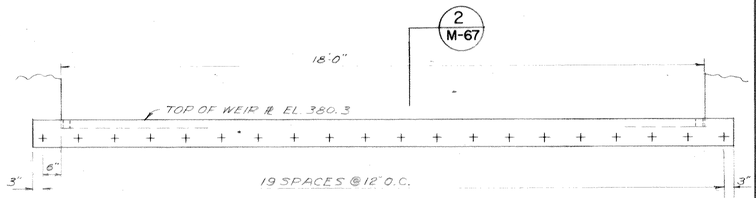
SECTION 2 M-67
SCALE 1" = 1'-0"

NOTE: BUTT PLS, 9"x6" FRP AT ALL WEIR SPLICES.

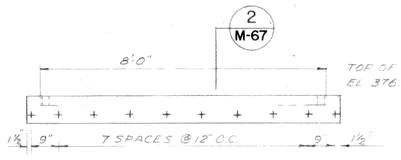
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



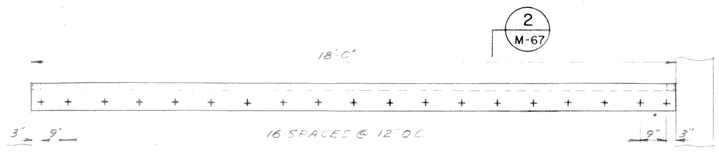
1st AND 2nd STAGE AERATION TANKS WEIRS DETAIL
SCALE 1/2" = 1'-0" 5 REQUIRED



1st AND 2nd STAGE AERATION TANKS
DISTRIBUTION BOX WEIR DETAIL
SCALE 1/2" = 1'-0" 1 REQUIRED



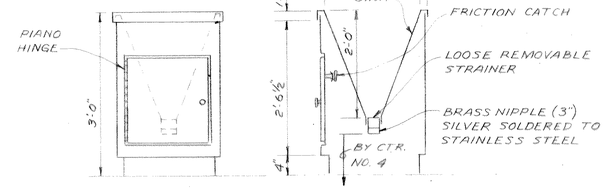
2nd STAGE AERATION TANKS
DISTRIBUTION BOX WEIRS DETAIL
SCALE 1/2" = 1'-0" 3 REQUIRED



CHLORINE CONTACT TANKS WEIR DETAIL
SCALE 1/2" = 1'-0" 2 REQUIRED

STRAINER

PLAN

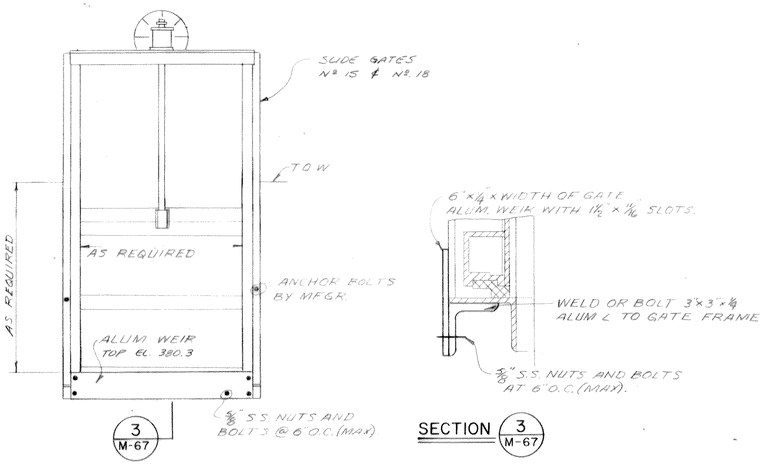


FRONT ELEVATION SECTION

1. THIS SINK DETAIL DOES NOT INDICATE STRUCTURAL DETAILS WHICH SHALL BE SHOWN ON SHOP DRAWINGS SUBMITTED BY CONTRACTOR.
2. SINK, TOP AND LID SHALL BE 14 U.S. GA. STAINLESS STEEL, TYPE 316.
3. SIDES AND BASE SHALL BE 14 U.S. GA. FURNITURE STEEL, SHOP PRIMED ONE COAT OF APPROVED PRIMER PAINT.
4. ALL HARDWARE AND STRAINER SHALL BE CHROME PLATED BRASS OR STAINLESS STEEL.

SLUDGE SAMPLING SINK DETAIL
2 REQUIRED NO SCALE

NOTE:
FOR SLUDGE PRE THICKENERS AND SLUDGE POST THICKENERS WEIR PLATES SEE SHEET M-28



ALUMINUM SLIDE GATE WITH FIXED WEIR DETAIL
NO SCALE

RECORD DRAWING
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Date 9-8-83 Per F&D

½" = 1'0" 1 0 1 2 3 4 5

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LICENSED PROFESSIONAL ENGINEER STEPHANIE G. BRUSIN 31910 OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD XLS				JLS	7/18/83
2	FOR CONSTRUCTION A.F.W.	2/24/78	P.K.W.	A.F.W.	SGB	2-24-78
1	FOR APPROVALS A.F.W.	3-30-76	P.K.W.	A.F.W.	SGB	3-31-76

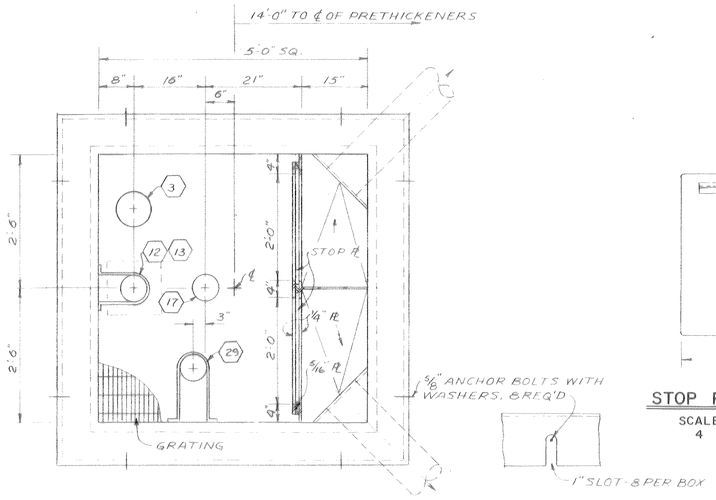
PROJECT SUPERVISOR Jack Swanson APPROVED S.G. Brusin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
MISCELLANEOUS DETAILS-WEIRS, SLUDGE SAMPLING SINK

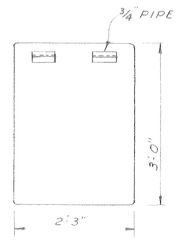
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-67

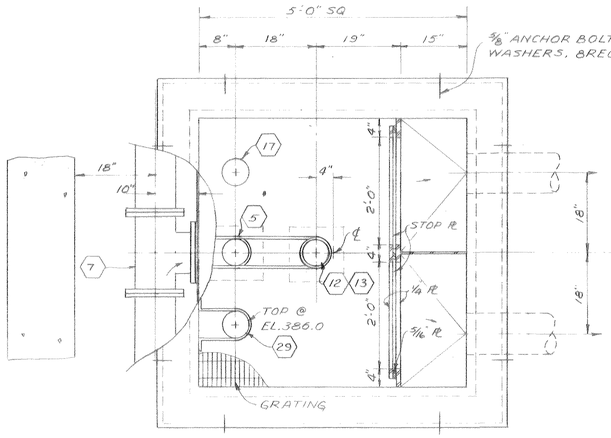
12/22



PLAN
SCALE 3/4" = 1'-0"



STOP PLATE DETAIL
SCALE 3/4" = 1'-0"
4 REQUIRED



PLAN
SCALE 3/4" = 1'-0"

NOTE:
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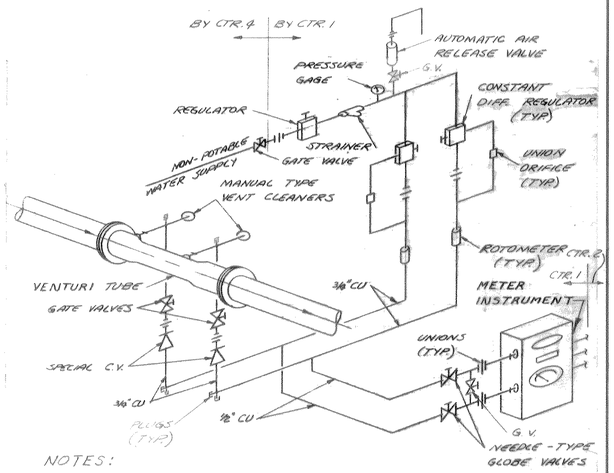
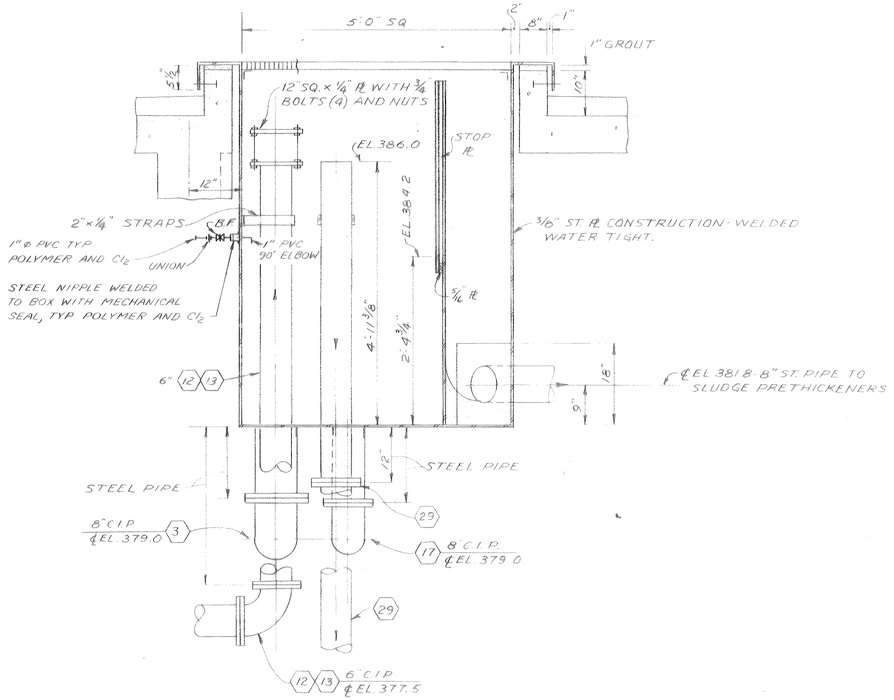


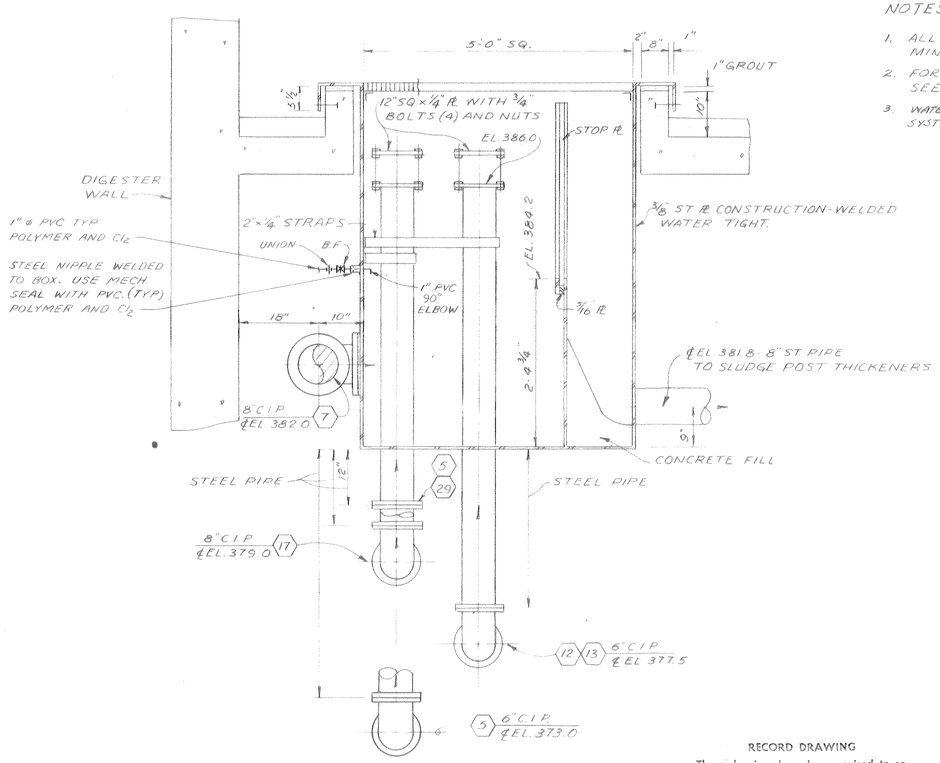
NOTES:

1. ALL PIPING TO SLOPE TOWARD METER INSTRUMENT AT MIN. SLOPE 1/2" PER FT.
2. FOR METER INSTRUMENT AND VENTURI TUBE LOCATIONS SEE MECHANICAL DRAWINGS.
3. WATER PURGE EQUIPMENT FURNISHED BY INSTRUMENTATION SYSTEM MFG.

FLOW METER & PURGE PIPING SCHEMATIC



FLOW SPLITTER BOX NO. 1
SCALE 3/4" = 1'-0"



FLOW SPLITTER BOX NO. 2
SCALE 3/4" = 1'-0"

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per F.L.D.

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS

PIPING LEGEND

3	DEGRITTED SLUDGE
5	DIGESTED SLUDGE
7	DIGESTER TRANSFER
12	WASTE SLUDGE (1ST STAGE)
13	WASTE SLUDGE (2ND STAGE)
17	THICKENER MAKEUP
29	UNVALVED OVERFLOW

3/4" = 1'-0" 1 0 1 2 3

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JLS				JLS	9/8/83
2	FOR CONSTRUCTION AFW 3/24/78		P.R.W.	AFW/P.R.W.	SGB	7-24-78
1	FOR APPROVALS A.F.W.	7-30-76	P.R.W.	A.F.W./P.R.W.	SGB	8-31-76

PROJECT SUPERVISOR Jack L. Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
MISCELLANEOUS DETAILS FLOW SPLITTER BOXES

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-68

FIRST STAGE SETTLING TANK NO. 1

FIRST STAGE SETTLING TANK NO. 2

SECOND STAGE SETTLING TANK NO. 1

SECOND STAGE SETTLING TANK NO. 2

SECOND STAGE SETTLING TANK NO. 3

GALLERY NO. 8

CHLORINE CONTACT TANKS NO. 1 NO. 2

CHLORINE BLDG.

6" M.J. DRYING BED FEED ℄ EL. 367.75

45° M.J.

45° M.J.

6" AC - 330' @ 0.3%

℄ PAVED ACCESS ROAD

℄ PAVED ROAD

45° M.J.

SLUDGE DISTRIBUTION M.H. SEE DET. THIS SHEET ℄EL. 366.5

8" M.J.

YARD HYDRANT (TYP. 5 PLACES) ℄EL. 365.75

℄ PAVED AREA

SLUDGE DRAIN M.H. SEE DET. SH. M-71 ℄EL. 365.75

6" M.J. - 155' @ 3.0%

16" AC - 190' @ 2.24%

℄ EL. 370.5 F.C. ℄EL. 370.5

MH D-5

14" AL - 310' @ 2.2%

6" M.J. - 280' @ 1.7%

MH D-4 ℄EL. 363.0

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

4" UNDERDRAINS (TYP.)

2'-0" (TYP.)

℄EL. 377.75

TOP OF WALL 378.0

BOTTOM OF BEDS 374.0

℄EL. 371.75 (TYP.)

GUARD POST SEE DET. SH. A

PAVED ROAD

12" AC - 110' @ 5.5%

M.H. 3 FOR DETAILS SEE SH. G-12

℄EL. 361.2

INV. 42"Ø 346.57

42" INF. SEWER

4' SHOULDER (TYP.)

STATE OF NEW YORK FLOOD RIGHTS

GUARD RAIL (65 LINEAR FEET) 5' REQ'D. SEE SPEC. SECT. E-F

PLAN

SCALE: 1"=30'-0"

NOTES:

1. FOR FINAL GRADES & CONTOURS, SEE SH. G-6 & G-7
2. FOR PIPING TO YARD HYDRANTS, SEE SH. G-7

LEGEND

PITCH & DIRECTION OF FLOW

1" = 30' 30 0 30 60

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

2" ℄ HATCH DRAIN

CAST 3/4" ℄ x 18" WIDE ALUM. GRAB RUNG IN COVER SLAB (TYP.)

8"x8"x6" SUMP

M.H. 2'-0"x2'-6" ALUM. HATCH

F.C.

6" P.V.

6" M.J.

I M-69

6" M.J. TO BEDS 1 THRU 10, ℄EL. 366.5

6" M.J. TO BEDS 11 THRU 26, ℄EL. 366.5

6'-0" R.C.P. M.H.

SLUDGE DISTRIBUTION M.H.

SCALE: 3/8"=1'-0"

FLOOR STANDS w/ACTUATING WRENCH & FOLDING LEVER

2 #5 @ OPG. ALUM. GRAB RUNG

#5 @ 12" E.W.

℄EL. 377.91

2" ℄ HATCH DRAIN

FIN. GRADE

ALUM. LADDER SEE DET. SH. G-9 (TYPE - B)

EXTENDED VALVE OPERATORS

F.C.

6" M.J. ℄EL. 366.5

℄EL. 365.0

#5 @ 12" E.W.

8'x8'x6" DEEP SUMP PIT

CONC. FILL SLOPE TO SUMP @ 1/8"/FT.

6'-0" R.C.P.

SECTION I M-69

SCALE: 3/8"=1'-0"

RECORD DRAWING

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Date 9-8-82 Per F.L.D.

FOR PIPING REVISIONS SEE APPROVED INSTALLATION DRAWINGS

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD PLS				LLS	9/8/82
2	FOR CONSTRUCTION GPV	8/24/78	PKW	PKW	SGB	8-24-78
1	FOR APPROVALS GPV/GJB	3-30-76	PKW	PKW	SGB	3-31-76

PROJECT SUPERVISOR Joel L. Swanson APPROVED S. G. Bastin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

SLUDGE DRYING BEDS PLAN & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-69

NOTE:
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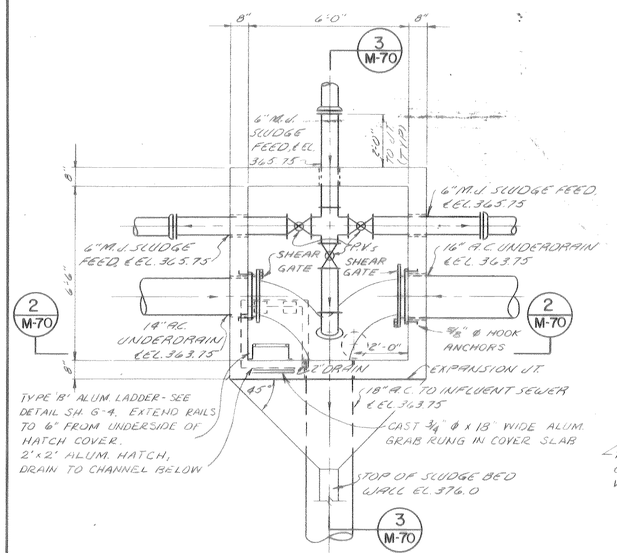
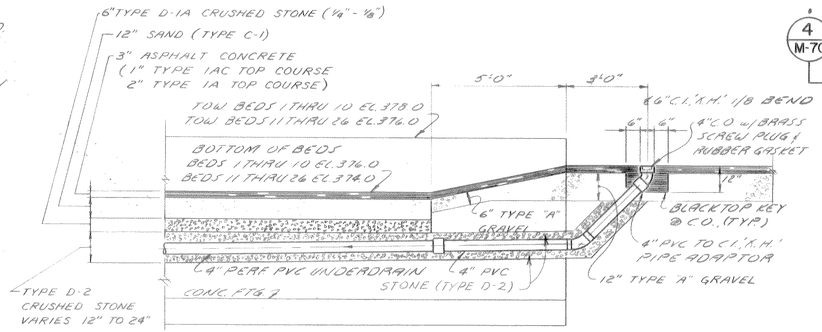
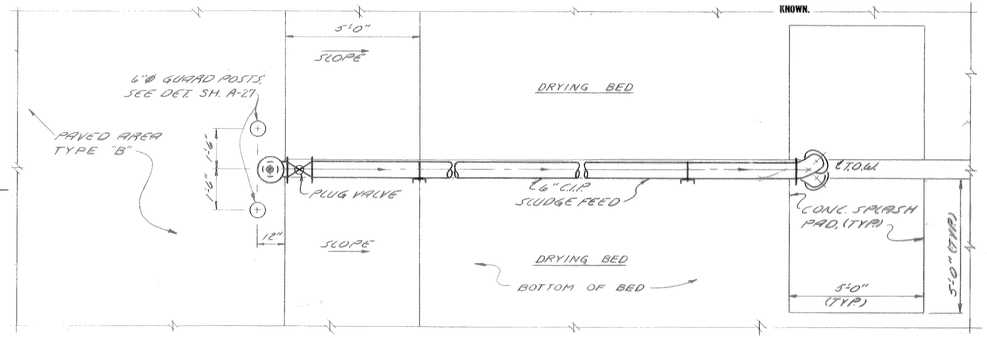


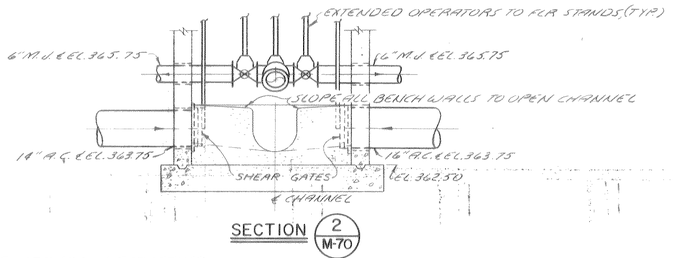
SLUDGE DRAIN M.H.



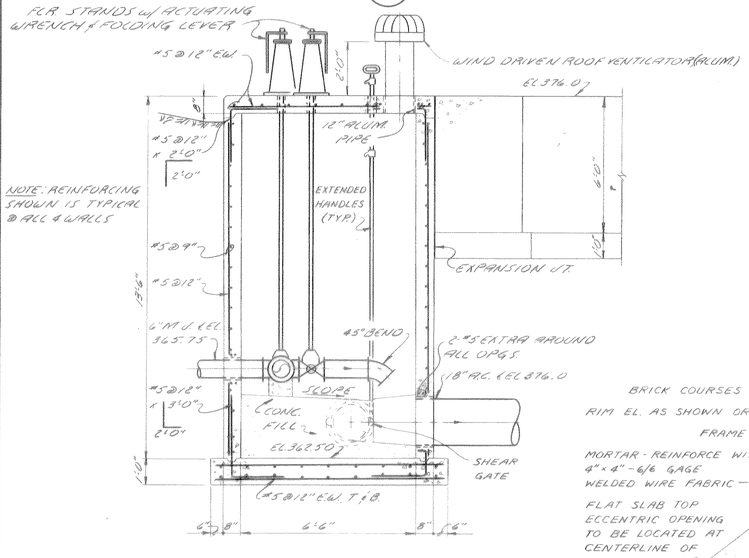
TYPICAL SECTION AT CLEAN OUT END, SLUDGE DRYING BEDS



PLAN - FEED & DRAIN END, SLUDGE DRYING BED TYPICAL

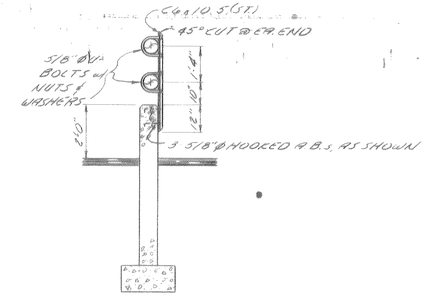


SECTION (2 M-70)

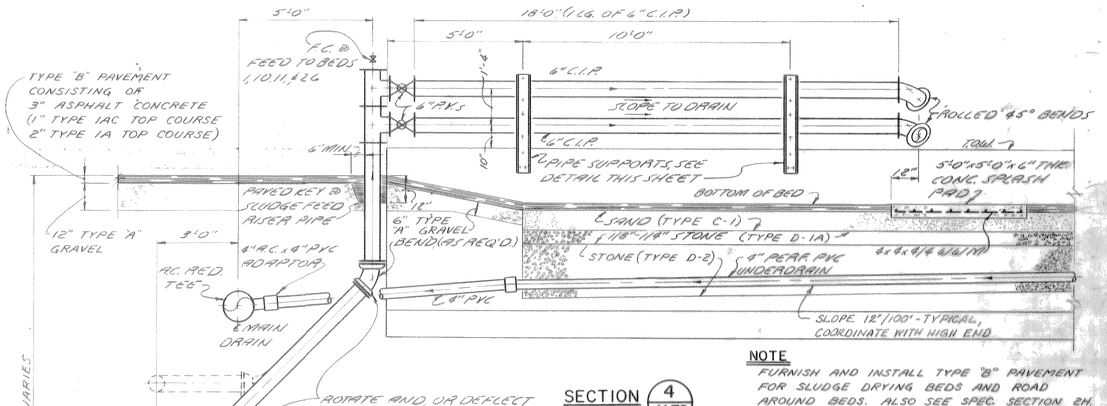


SECTION (3 M-70)

RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor.
Date 9-8-83 Per FLD

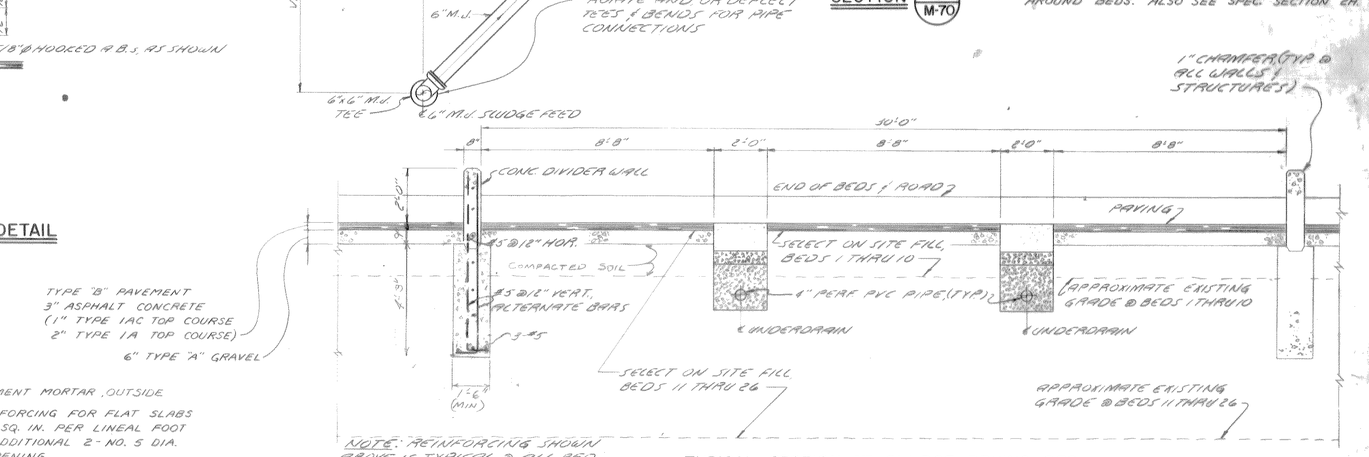


PIPE SUPPORT DETAIL



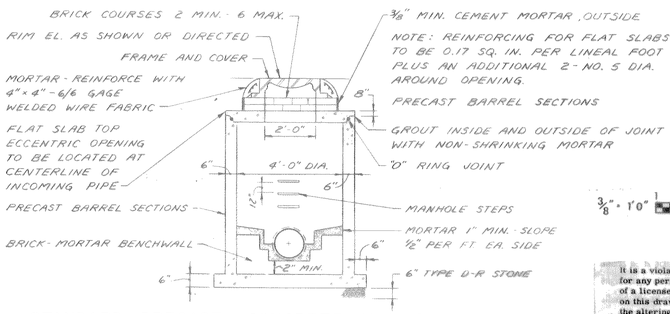
SECTION (4 M-70)

NOTE
FURNISH AND INSTALL TYPE 'B' PAVEMENT FOR SLUDGE DRYING BEDS AND ROAD AROUND BEDS. ALSO SEE SPEC. SECTION 2H.



TYPICAL SECTION AT SLUDGE DRYING BED

FOR PIPING REVISIONS SEE - APPROVED INSTALLATION DRAWINGS



STANDARD PRECAST CONCRETE MANHOLE TYPE "C" NO SCALE

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SCALE: ALL DRAWINGS THIS SHEET 3/8" = 1'-0"

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD AS-BUILT				KS	9/8/83
2	FOR CONSTRUCTION GPV/AES	2/24/78	P.K.W.	P.K.W.	S.G.B.	2-29-78
1	FOR APPROVALS G.P.V./A.S.	3-30-76	P.K.W.	P.K.W.	S.G.B.	3-31-76

PROJECT SUPERVISOR: Joseph Swanson
APPROVED: S. G. Bratton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

SLUDGE DRYING BEDS SECTIONS & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 1 | SHEET M-70

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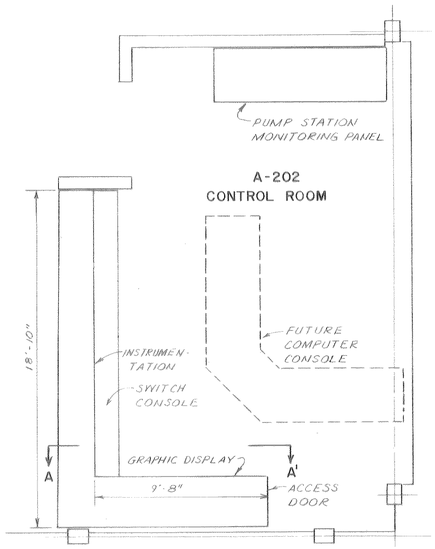
"DESCRIPTION OF EQUIPMENT"

LOCATION ON GRAPHIC DISPLAY ___

NAMEPLATE DETAIL

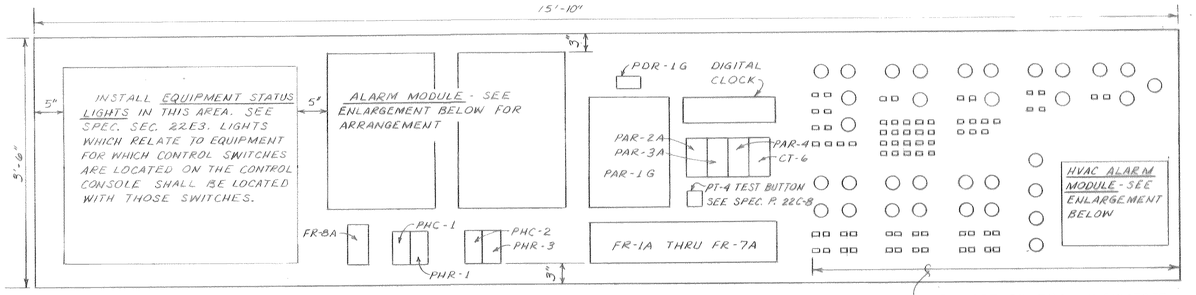
NO SCALE

FOR ALL EQUIPMENT WITH RUN LIGHT ON GRAPHIC DISPLAY.



CONTROL ROOM PLAN

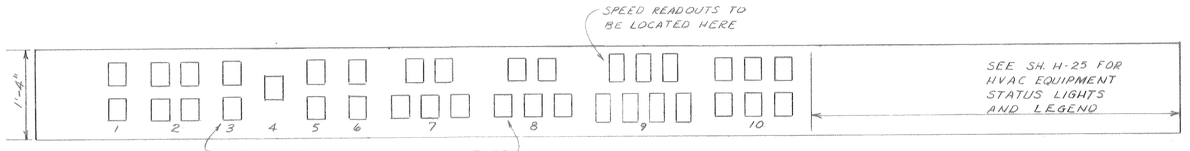
SCALE: 1/4" = 1'-0"



INSTRUMENTATION LAYOUT

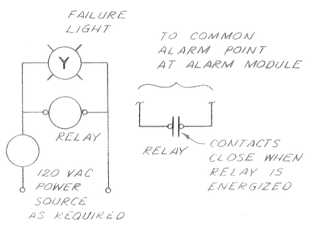
SCALE: 1" = 1'-0"

COMFORT CONTROL INDICATORS - SEE SHEET H-25 FOR IDENTIFICATION AND DETAILS



CONSOLE LAYOUT

SCALE: 1" = 1'-0"



FAILURE LIGHT CIRCUITRY

NO SCALE

KEY TO SWITCH/LIGHT CLUSTERS

1. MECHANICAL BAR SCREENS
2. FLASH MIXERS
3. PRIMARY SETTLING TANK SLUDGE DRIVE
4. LIME SLURRY FEED PUMP NO. 6
5. GRIT CHAMBER BLOWERS
6. THICKENER MAKE-UP PUMPS
7. THICKENED SLUDGE PUMPS
8. WASTE-ACTIVATED SLUDGE PUMPS
9. RETURN SLUDGE PUMPS
10. THIRD STAGE DIGESTER AERATORS

113	115	117	119	121
114	116	118	120	122
123	127	131	135	139
124	128	132	136	140
125	129	133	137	141
126	130	134	138	142
143	145	147	149	151
144	146	148	150	152

1	3	5	7	9
2	4	6	8	10
11	14	17	20	23
12	15	18	21	24
13	16	19	22	25
26	28	30	33	35
27	29	31 32	34	36
37	39	41	43	45
38	40	42	44	46
47	48	49	50 51 52	53 54 55
56	58	60	62	64
57	59	61	63	65

66	68	70	71	72
67	69	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	109
90	91	92	93	110
94	95	96	97	110
98	99	104	107	111
100	101	105		
102	103	106	108	112
153	155	157	159	161
154	156	158	160	162 163
164	166	168	171	
165	167	170	173	174

COMFORT CONTROL CENTER ALARM MODULE

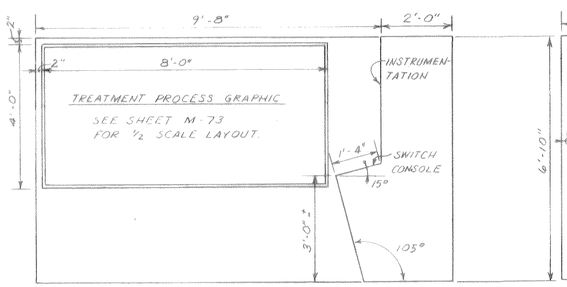
SCALE: 1 1/2" = 1'-0"

SEE SPEC. SEC. 22E3 FOR INSCRIPTIONS

ALARM MODULE

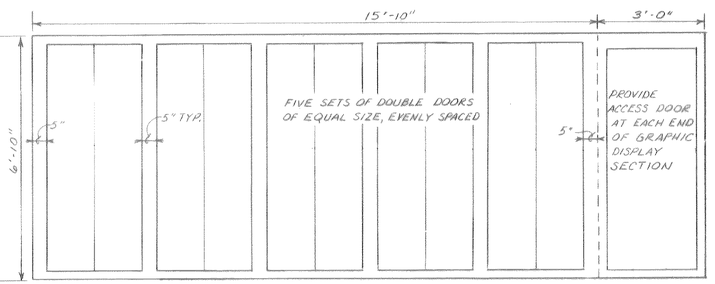
SCALE: 1 1/2" = 1'-0"

TEST AND ACKNOWLEDGE PUSH BUTTONS



SECTION A-A'

SCALE: 1/2" = 1'-0"



REAR VIEW

SCALE: 1/2" = 1'-0"

SCALE AS NOTED

RECORD DRAWING

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NO.	ISSUE	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD	KLS				KLS	9/8/83
2	FOR CONSTRUCTION	BJN	2/24/78	FLD	FLD	SGB	2-24-78
1	FOR APPROVALS	BJN	330-76	F.L.D.	F.L.D.	SGB	2/1/78

PROJECT SUPERVISOR Joel Swanson APPROVED S G Brisbin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

MAIN CONTROL PANEL

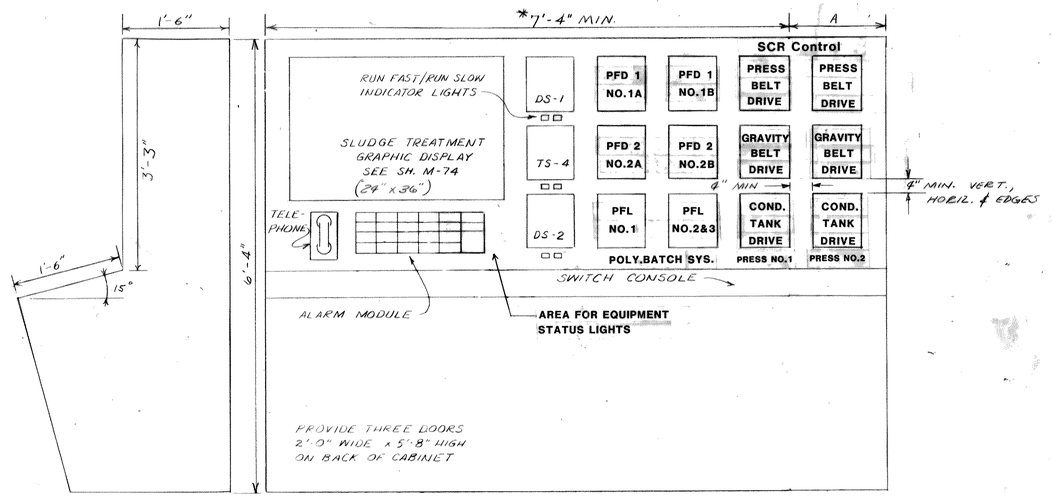
Stearns & Wheler

CIVIL AND SANITARY ENGINEERS

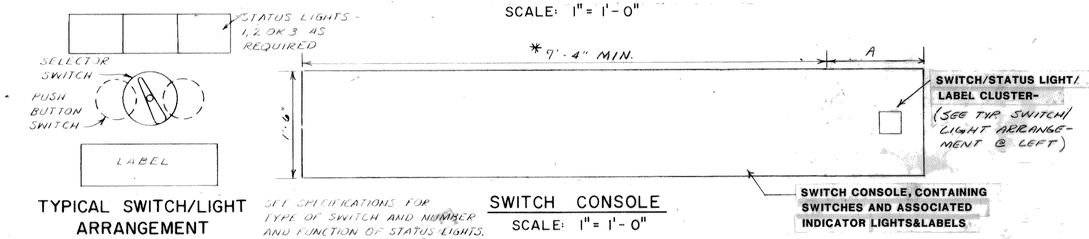
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-71

* PANEL LENGTH 7'-4" + A
THE A DIMENSION IS TO BE SUCH AS TO PROVIDE A MINIMUM 4" SPACE BETWEEN INSTRUMENTATION



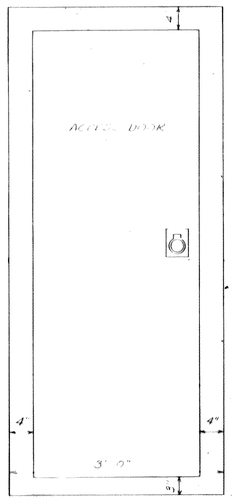
BELT PRESS CONTROL PANEL
SCALE: 1" = 1'-0"



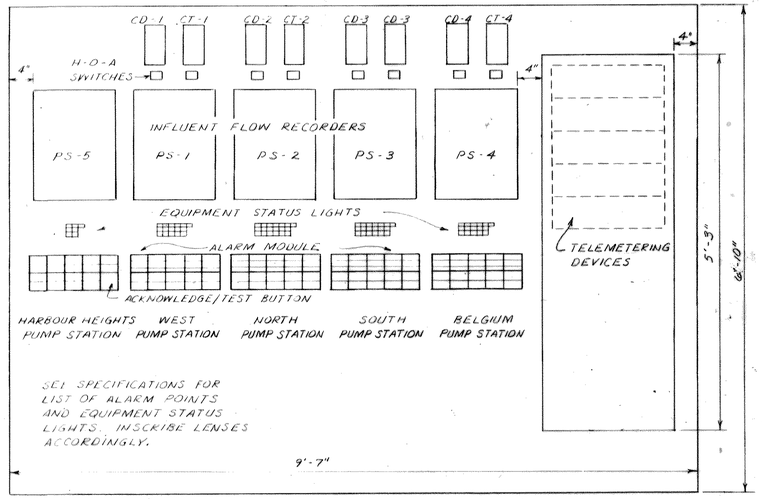
TYPICAL SWITCH/LIGHT ARRANGEMENT

SET SPECIFICATIONS FOR TYPE OF SWITCH AND NUMBER AND FUNCTION OF STATUS LIGHTS.

SWITCH CONSOLE
SCALE: 1" = 1'-0"



END VIEW



PUMP STATION MONITORING PANEL
SCALE: 1" = 1'-0"

1" = 1'0" 1 6 0 1 2

RECORD DRAWING
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD KLS				JLS	9/8/83
1	AN	11-28-79	FLD	FLD	JLS	11/29/79

PROJECT SUPERVISOR Joel Swenson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
SLUDGE TREATMENT CONTROL PANEL AND PUMP STATION MONITORING PANEL

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577/889 CONTRACT NO. 1 SHEET M-72-BP

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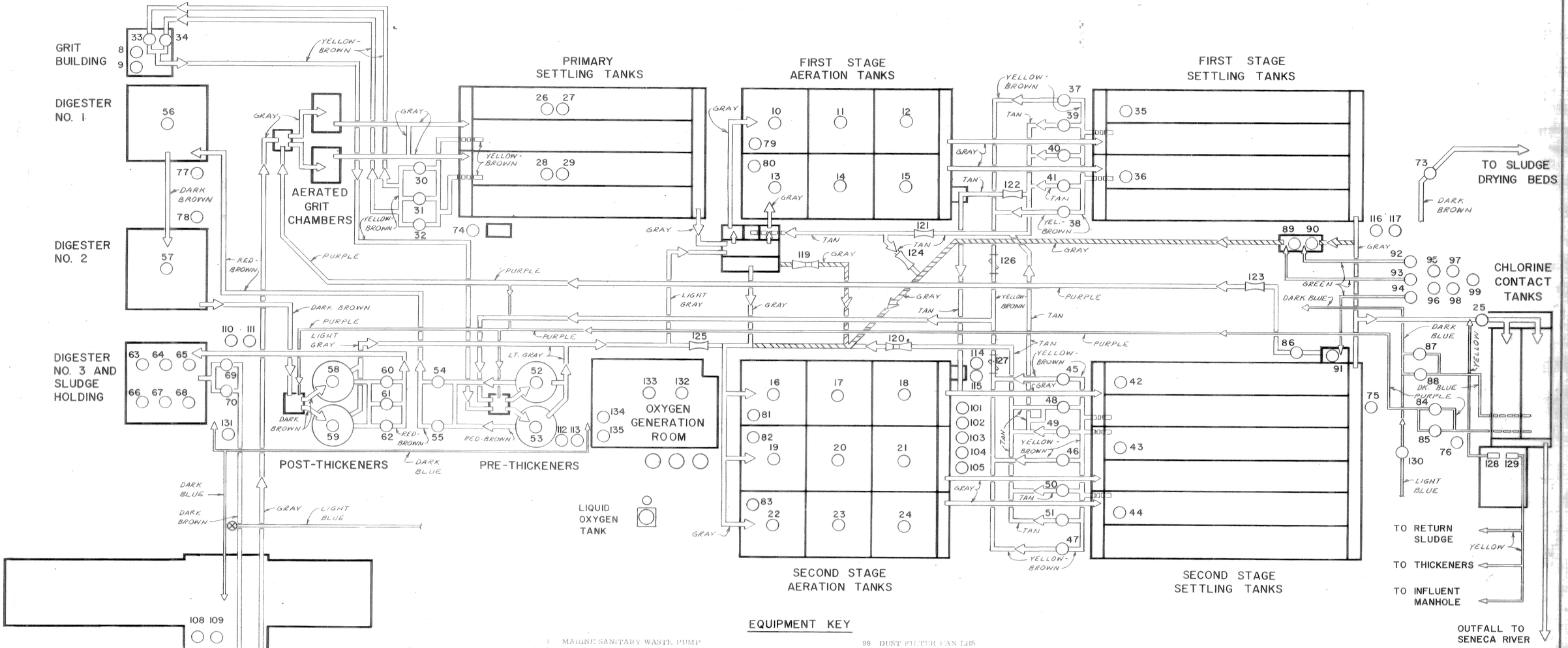

EQUIPMENT KEY

1	MARINE SANITARY WASTE PUMP
2, 3	BAR SCREENS
4, 5, 6, 7	RAW SEWAGE PUMPS
8, 9	AERATED GRIT CHAMBER BLOWERS
10 - 15	AERATORS, FIRST STAGE
16 - 24	AERATORS, SECOND STAGE
25	MIXER NO. 3, INFLUENT TO CHLORINE CONTACT TANKS
26 - 29	SLUDGE DRIVE, PRIMARY SETTLING TANKS
30 - 32	PRIMARY SLUDGE PUMPS
33, 34	GRIT RAKE CLASSIFIERS
35, 36	SLUDGE DRIVE, FIRST STAGE SETTLING TANKS
37, 38	FIRST STAGE SETTLING WASTE SLUDGE PUMPS
39, 41	FIRST STAGE RECIRCULATED SLUDGE PUMPS
42 - 44	SLUDGE DRIVE, SECOND STAGE SETTLING TANKS
45 - 47	SECOND STAGE SETTLING WASTE SLUDGE PUMPS
48 - 51	SECOND STAGE RECIRCULATED SLUDGE PUMPS
52, 53	DRIVE, PRE THICKENERS
54, 55	PRE-THICKENED SLUDGE PUMPS
56, 57	DIGESTER AERATORS
58, 59	DRIVE, POST THICKENERS
60 - 62	POST-THICKENED SLUDGE PUMPS
63 - 68	ASPIRATOR MIXERS
69, 70	DIGESTED SLUDGE PUMPS
71, 72	BELT PRESSES
73	SLUDGE TO DRYING BEDS
74, 75, 76	SCUM PUMPS
77, 78	DIGESTER PURGE BLOWERS
79, 80	FIRST STAGE AERATION PURGE BLOWERS
81 - 83	SECOND STAGE AERATION PURGE BLOWERS
84, 85	THICKENER MAKE-UP PUMPS NOS. 1 AND 2
86	PHOSPHORUS REMOVAL PUMP
87, 88	EFFLUENT WATER SYSTEM PUMPS
89, 90	MIXERS, LIME MIX CHAMBER NO. 1
91	MIXER, LIME MIX CHAMBER NO. 2
92 - 94	LIME SLURRY FEED PUMPS
95, 96	AGITATORS, LIME SLURRY RESERVE TANKS
97, 98	LIME SLAKERS
99	DUST FILTER FAN HP
100	LIQUID POLYMER DILUTION MIXER
101, 102	FIRST STAGE AERATION [illegible] FEED PUMPS
103 - 105	SECOND STAGE AERATION SLUM FEED PUMPS
106 - 117	SUMP PUMPS
118	PARSHALL FLUME (PF-1), WASTEWATER EFFLUENT
119	PARSHALL FLUME (PF-2), PRIMARY EFFLUENT TO SECOND STAGE AERATION
120	PARSHALL FLUME (PF-3), SECOND STAGE RECIRCULATED SLUDGE FLOW
121	VENTURI FLOW TUBE (FE-1), FIRST STAGE RECIRCULATED SLUDGE FLOW
122	VENTURI FLOW TUBE (FF-2), FIRST STAGE RECIRCULATED SLUDGE TO SECOND STAGE SETTLING TANK NO. 1
123	VENTURI FLOW TUBE (FE-3), THICKENER MAKE-UP FROM SECOND STAGE SETTLED EFFLUENT
124	VENTURI FLOW TUBE (FE-4), FIRST STAGE RECIRCULATED SLUDGE TO SECOND STAGE AERATION
125	VENTURI FLOW TUBE (FE-5), THICKENER OVERFLOW TO SECOND STAGE AERATION
126	ULTRASONIC FLOW TUBE (FE-6), FIRST STAGE WASTE SLUDGE FLOW
127	ULTRASONIC FLOW TUBE (FE-7), SECOND STAGE WASTE SLUDGE FLOW
128	AUTOMATIC CHLORINATOR TO CONTACT TANKS
129	MANUAL CHLORINATOR
130	POTABLE WATER SUPPLY
131	POLYMER FEED PUMP
132	FEED AIR COMPRESSOR #1
133	FEED AIR COMPRESSOR #2
134	INSTRUMENT AIR COMPRESSOR #1
135	INSTRUMENT AIR COMPRESSOR #2

PROCESS COLOR CODE

RAW SEWAGE	GRAY
SERIES OPERATION	GRAY
WASTE SLUDGE	YELLOW BROWN
RETURN SLUDGE	TAN
THICKENED SLUDGE	RED-BROWN
DIGESTED SLUDGE	DK. BROWN
THICKENER OVERFLOW	LT. GRAY
PHOSPHORUS REMOVAL	PURPLE
LIME FEED	GREEN
CHLORINE FEED	YELLOW
THICKENER MAKE-UP WATER	PURPLE
PLANT EFFLUENT	DK. BLUE
POTABLE (CITY) WATER	LT. BLUE

NOTE: FINISHED GRAPHIC IS TO BE 4'-0" HIGH BY 8'-0" LONG. GRAPHIC SCALE MAY BE APPLIED TO COMPONENTS OF THIS DRAWING; HOWEVER, HORIZONTAL SPACING BETWEEN COMPONENTS SHOULD BE INCREASED ON FINISHED GRAPHIC FOR BETTER VISUAL PRESENTATION.

½" = 1'0"

RECORD DRAWING

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Date 9-8-83 Per FLD

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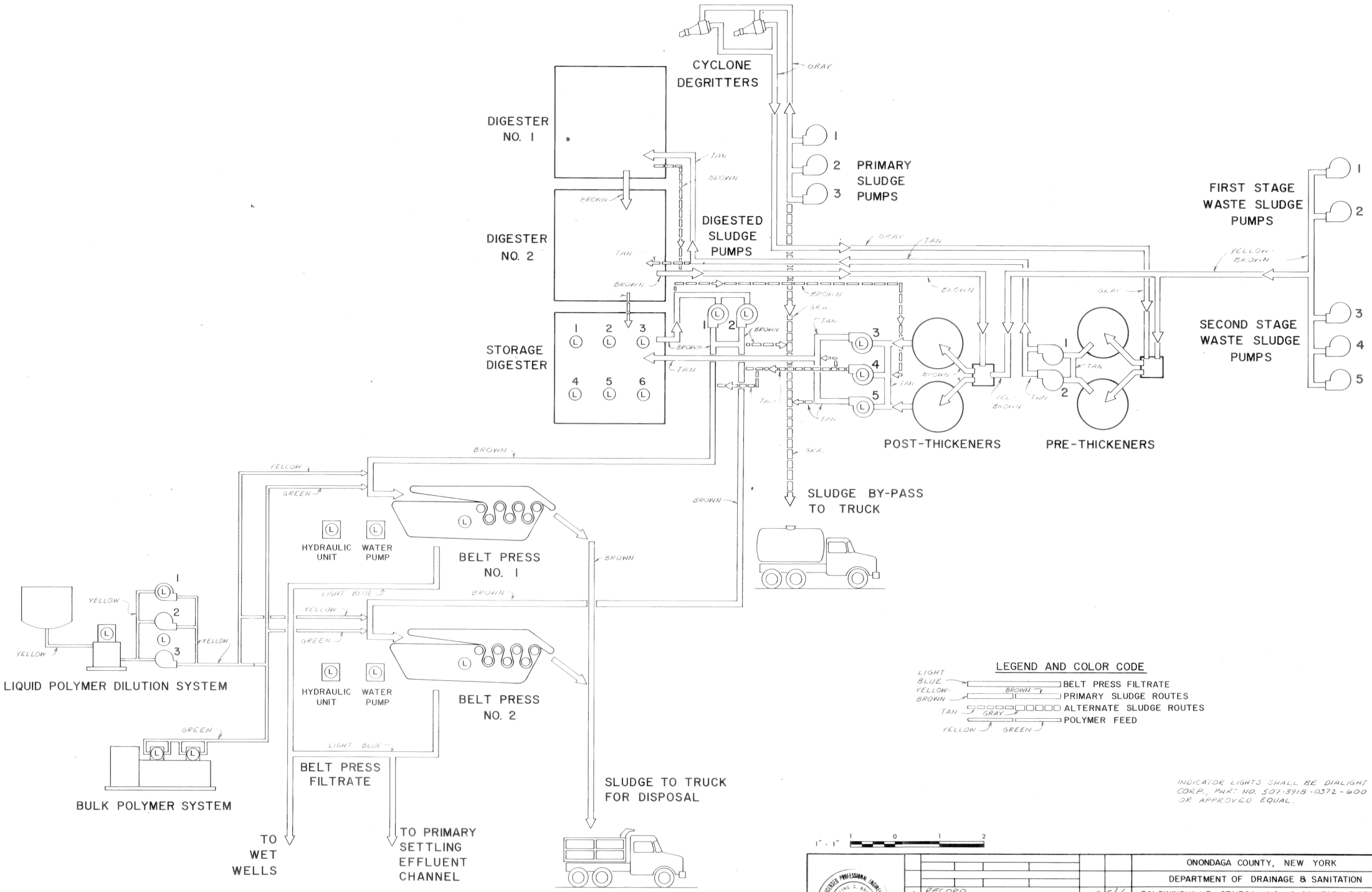
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD KLS				JLS	9/8/83
3	REVISED PER PC-60 (BELT PRESS) BJN	3/4/80	F.L.D.	P.K.W.		
2	FOR CONSTRUCTION BJN	12/28/78	F.L.D.	FLD	SGB	2-24-78
1	FOR APPROVALS BN.	3-30-78	F.L.D.	F.L.D.	SGB	2/9/78

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Brubaker

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
TREATMENT PROCESS GRAPHIC DISPLAY

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT

JOB NO. 577 CONTRACT NO. SHEET M 73



LEGEND AND COLOR CODE

- LIGHT BLUE — BELT PRESS FILTRATE
- YELLOW-BROWN — PRIMARY SLUDGE ROUTES
- TAN / GRAY — ALTERNATE SLUDGE ROUTES
- YELLOW / GREEN — POLYMER FEED

INDICATOR LIGHTS SHALL BE DIALIGHT CORP., PART NO. 507-3918-0372-600 OR APPROVED EQUAL.

1" = 1

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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD KLS				KLS	9/6/83
3	REVISED PER PC-60 (BELT PRESS) BJN	3/4/80	F.L.D.	P.K.N.		
2	FOR CONSTRUCTION BJN	2/14/78	F.L.D.	F.L.D.	SGB	2/24/78
1	FOR APPROVALS BJN	3-30-76	F.L.D.	F.L.D.	SGB	2/7/78

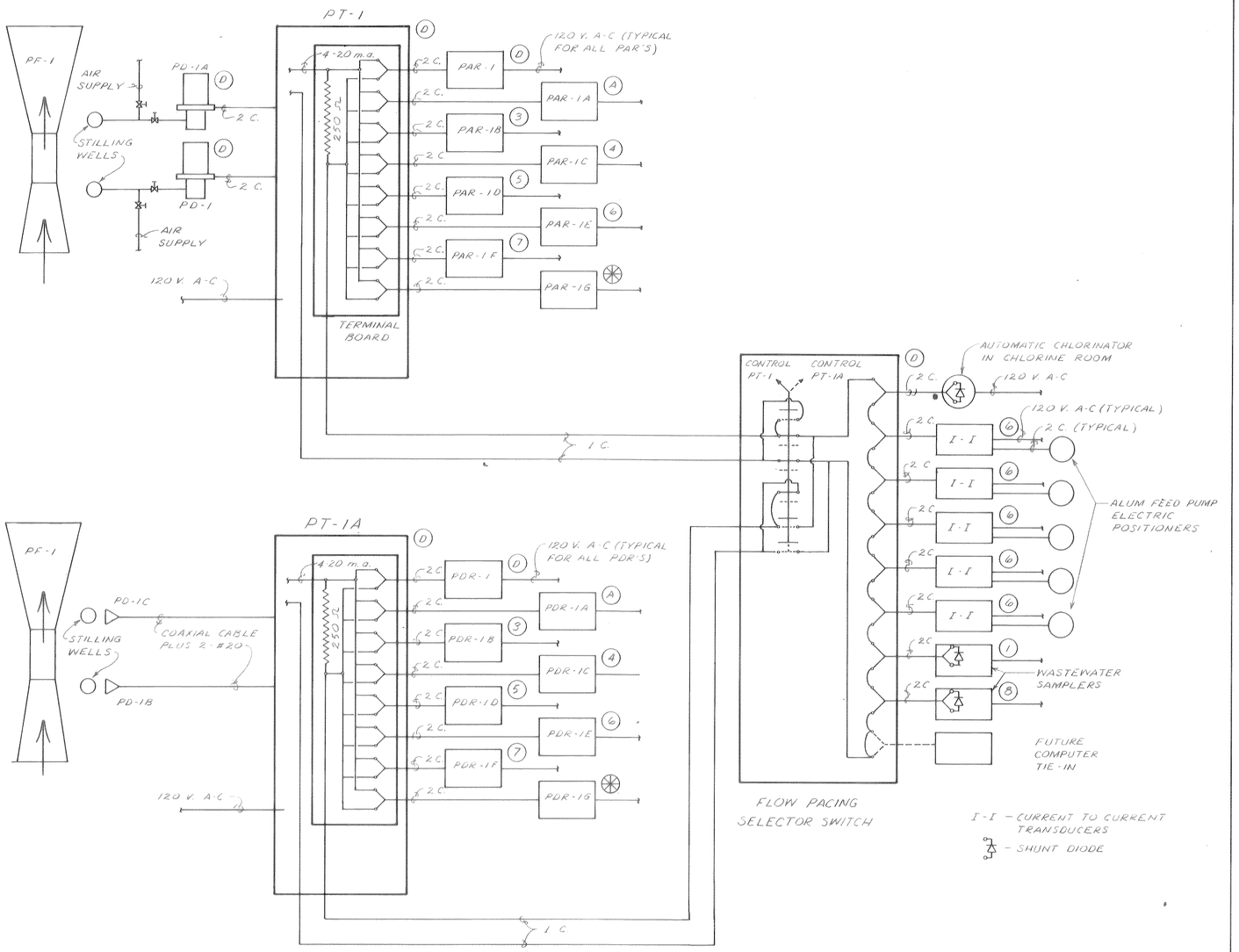
PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT

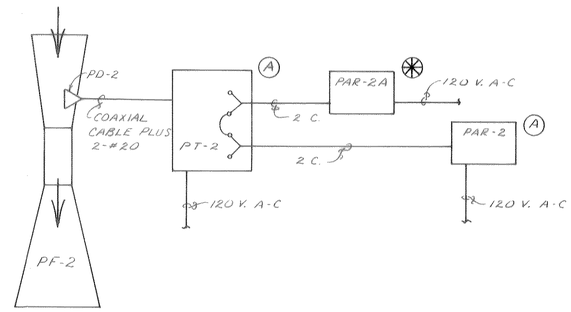
SLUDGE TREATMENT PROCESS GRAPHIC DISPLAY

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT

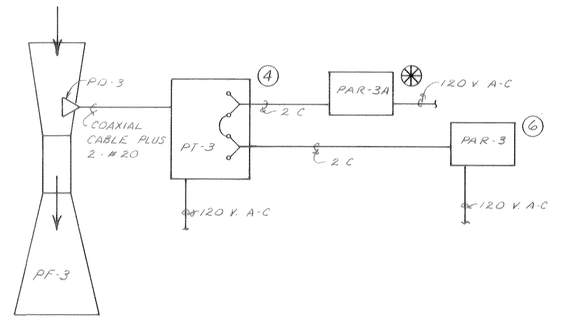
JOB NO. 577 CONTRACT NO. 1 SHEET M-74



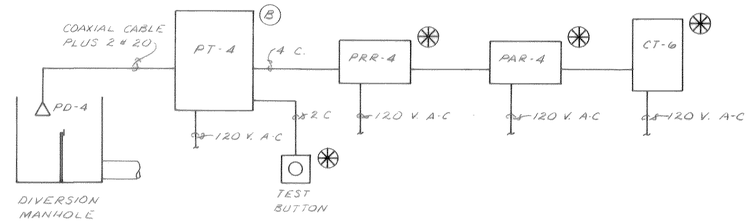
RAW SEWAGE FLOW METERING SYSTEMS



PRIMARY SETTLING TANK EFFLUENT TO SECOND STAGE AERATION



SECOND STAGE RECIRCULATION SLUDGE FLOW



PLANT CONTROLLED DIVERSION

RECORD DRAWING

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Date 9-8-83 Per FLD

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NO SCALE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JLS	9/8/83
2	FOR CONSTRUCTION				SGB	7-24-78
1	FOR APPROVALS				SGB	2/7/78
	B.N.	3-30-78	F.L.D.	F.L.D.		

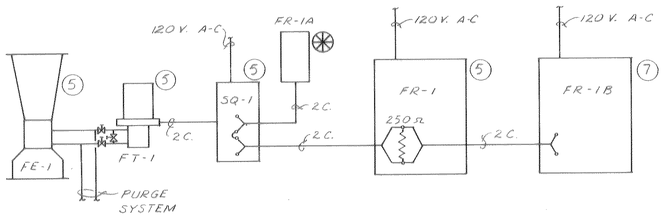
PROJECT SUPERVISOR: Joel Swanson APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
INSTRUMENTATION SCHEMATIC
FLOW METERING

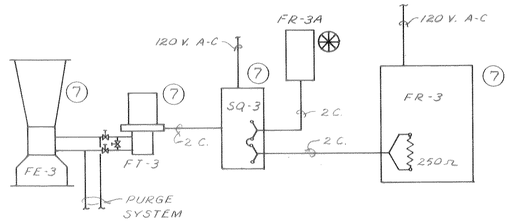
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-75

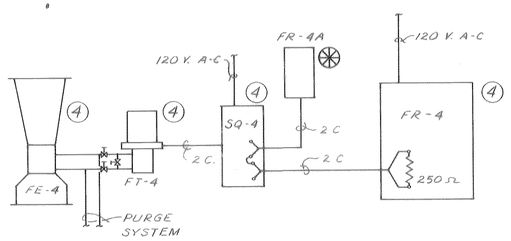
130



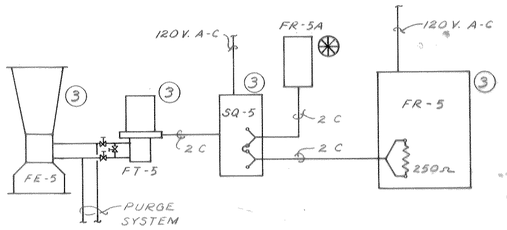
FIRST STAGE
RECIRCULATED SLUDGE FLOW



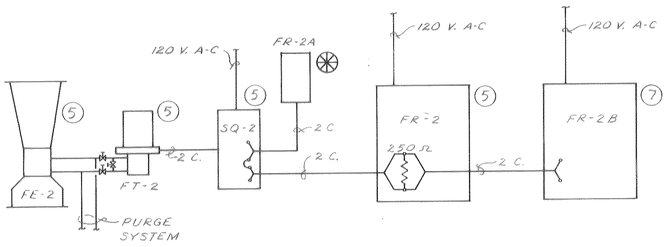
THICKENER MAKE-UP FROM
SECOND STAGE SETTLING EFFLUENT



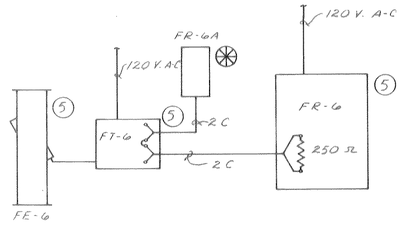
FIRST STAGE RECIRCULATED SLUDGE FLOW
TO SECOND STAGE AERATION



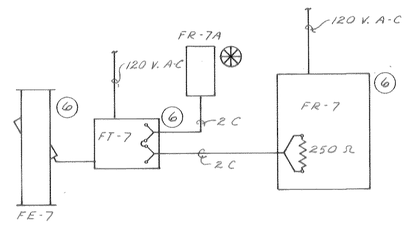
THICKENER OVERFLOW
TO SECOND STAGE AERATION



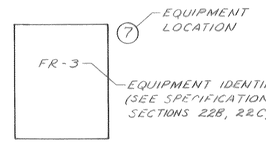
FIRST STAGE RECIRCULATED SLUDGE FLOW
TO SECOND STAGE SETTLING TANK NO. 1



FIRST STAGE
WASTE SLUDGE FLOW



SECOND STAGE
WASTE SLUDGE FLOW



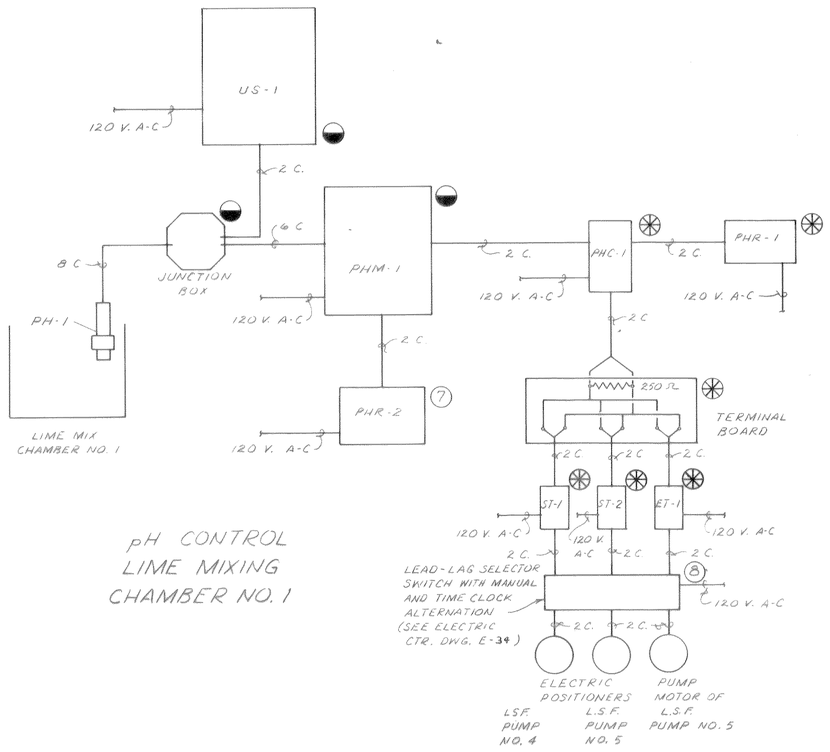
LOCATION KEY

- ⊛ MAIN CONTROL PANEL - CONTROL BUILDING, ROOM A-202
- (5) GALLERY NO.
- (A) AT FIRST AND SECOND STAGE AERATION TANKS DISTRIBUTION BOX
- (B) AT DIVERSION MANHOLE
- ◒ LOCATED NEAR LIME MIX CHAMBER NO. 1
- ◓ LOCATED NEAR LIME MIX CHAMBER NO. 2
- (D) IN ROOM A-129 CONTROL BUILDING

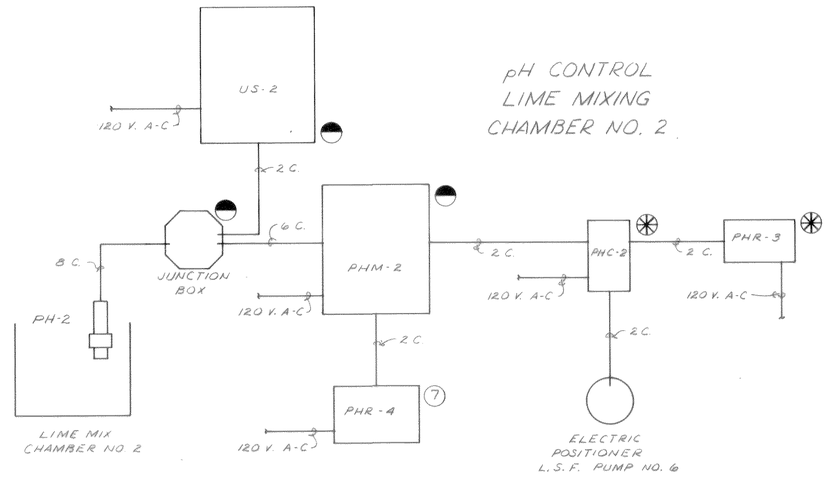
ABBREVIATIONS

C - CONDUCTORS BY CTR. NO. 2
V - VOLTS
A-C - ALTERNATING CURRENT

LEGEND



pH CONTROL
LIME MIXING
CHAMBER NO. 1



pH CONTROL
LIME MIXING
CHAMBER NO. 2

RECORD DRAWING

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Date 9-8-83 Per FLD

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NO SCALE

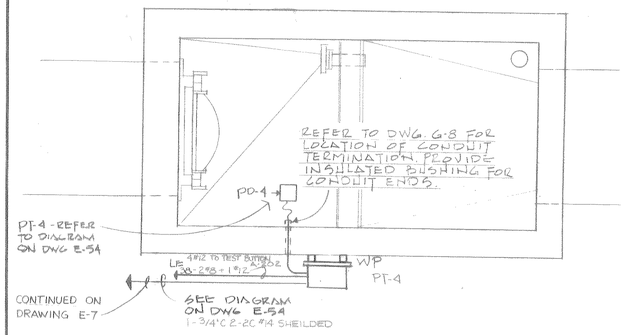
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					JLS	9/8/83
2	FOR CONSTRUCTION	B.N.	2/24/78	F.L.D.	F.L.D.	S.G.B.	2-24-78
1	FOR APPROVALS	B.N.	3-30-76	F.L.D.	F.L.D.	S.G.B.	2/1/78

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Boisbriand

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
INSTRUMENTATION SCHEMATIC
FLOW METERING AND pH CONTROL

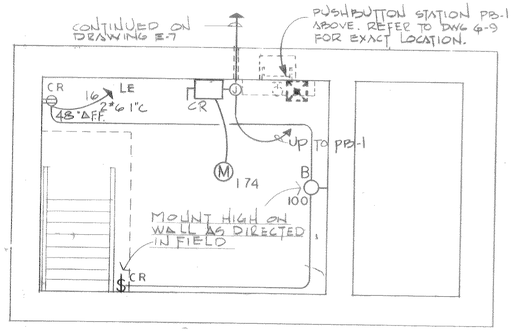
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 1 SHEET M-76



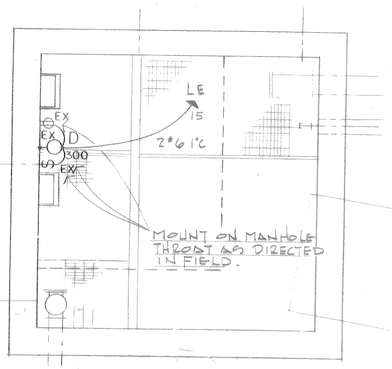
CONTROLLED DIVERSION STRUCTURE

SCALE: 3/8" = 1'-0"



MARINE SANITARY STATION

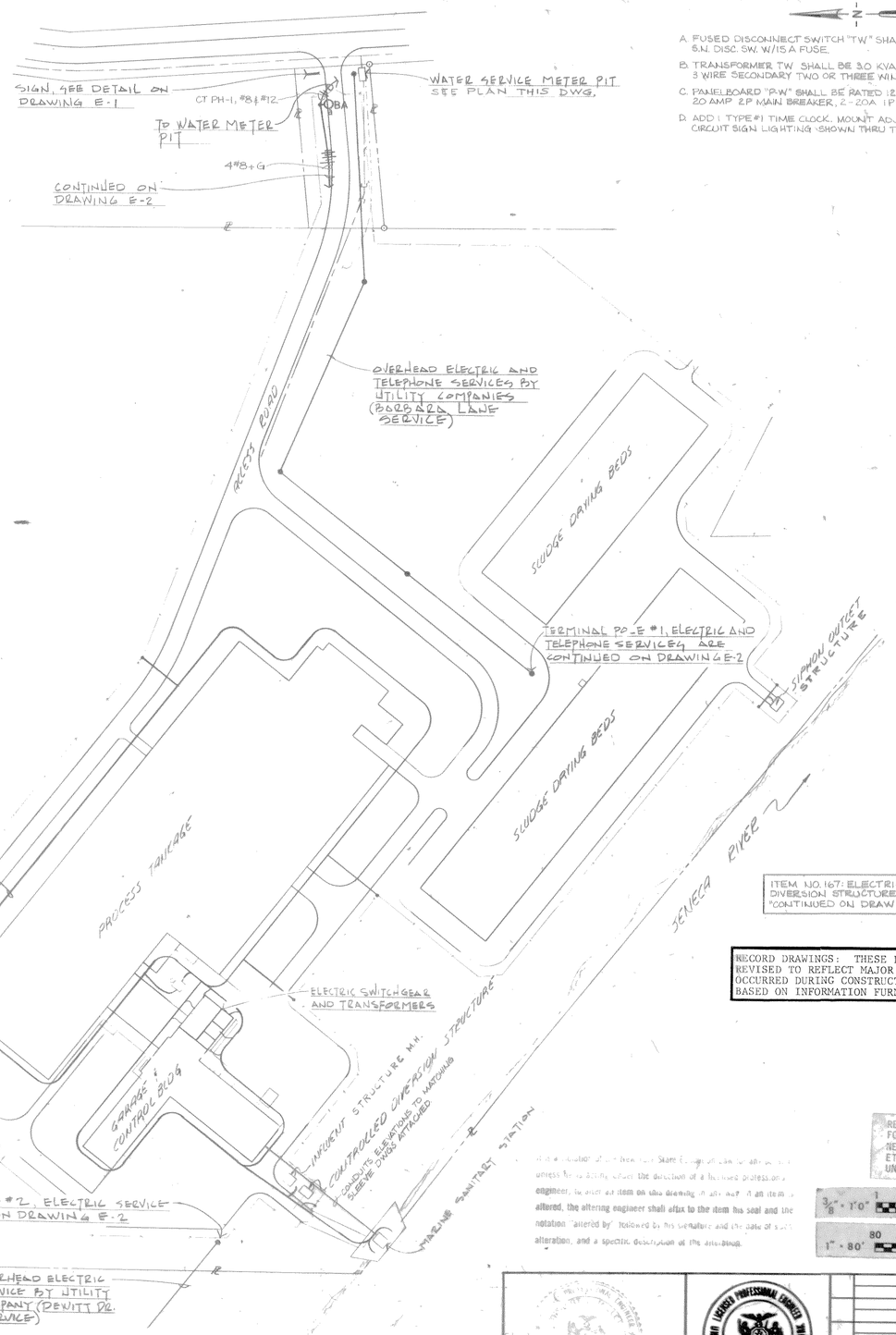
SCALE: 3/8" = 1'-0"



INFLUENT STRUCTURE M.H.

SCALE: 3/8" = 1'-0"

- SLEEVE DRAWING ATTACHED FOR ALL 3 MANHOLES.



SITE PLAN

SCALE 1" = 80'-0"

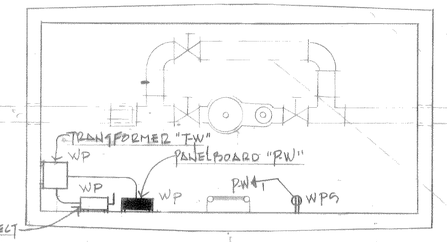
A. FUSED DISCONNECT SWITCH "TW" SHALL BE A 600 VOLT 30 AMP 1 POLE 2 WIRE S.N. DISC. SW. W/15 A FUSE.

B. TRANSFORMER TW SHALL BE 3.0 KVA 277 VOLT PRIMARY - 120/240 VOLT, 1 PHASE 3 WIRE SECONDARY TWO OR THREE WINDING ENCAPSULATED.

C. PANELBOARD "PW" SHALL BE RATED 120/240 VOLT 1 PHASE 3 WIRE 100 AMP BUS 20 AMP 2P MAIN BREAKER, 2 - 20A 1P BREAKERS & 2-1P SPACES.

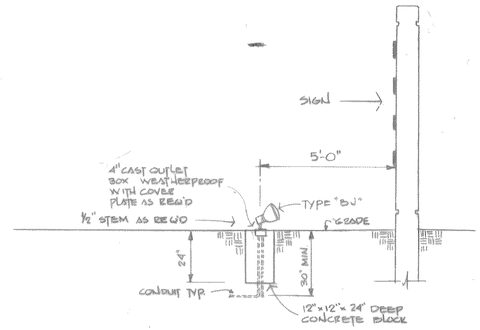
D. ADD 1 TYPE #1 TIME CLOCK. MOUNT ADJACENT TO PANEL BOARD. CIRCUIT SIGN LIGHTING SHOWN THRU TIMECLOCK.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



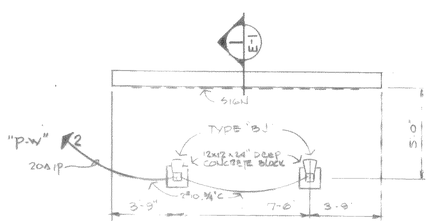
WATERMETER PIT

SCALE: 3/8" = 1'-0"



SECTION

SCALE AS SHOWN (1 / E-1)



SIGN LIGHTING PLAN

SCALE AS SHOWN

ITEM NO. 167: ELECTRIC SITE PLAN - CONTROLLED DIVERSION STRUCTURE: DELETE REFERENCE, "CONTINUED ON DRAWING E-3."

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC. AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

1" = 80' 80 0 80 160

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

It is a violation of law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

MILLER - SIZING, P.C.
consulting engineers
469 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without original signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				JRC	4/14/83
	JRD	4/4/83	RAK			
2	FOR CONSTRUCTION				S.G.B	3/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				S.G.B	3/21/78
	TBA	3/21/78	JRC	TBA		

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

ELECTRIC SITE PLAN

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 1

SECTION 1 E-2
NO SCALE

SECTION 2 E-2
NO SCALE

SECTION 3 E-2
NO SCALE

SECTION 4 E-2
NO SCALE

TYPICAL DUCTBANK SECTION
NO SCALE

GENERAL NOTE

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

NOTE:
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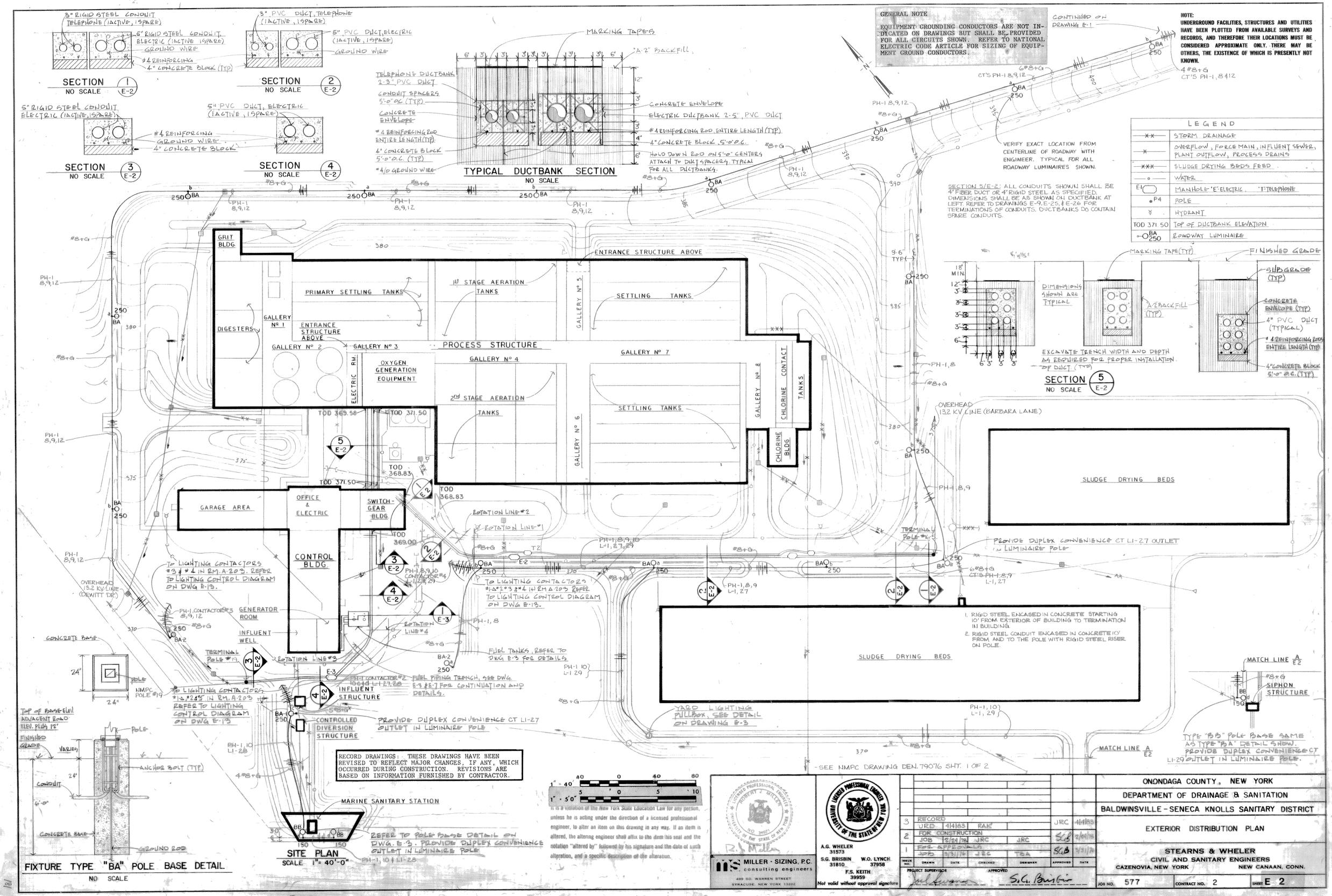

LEGEND

-XX-	STORM DRAINAGE
- - -	OVERFLOW, FORCE MAIN, INFLUENT SEWER, PLANT OUTFLOW, PROCESS DRAINS
-XXX-	SLUDGE DRYING BEDS FEED
—o—	WATER
E1	MANHOLE 'E' ELECTRIC, 'T' TELEPHONE
P4	POLE
	HYDRANT
TOD 371.50	TOP OF DUCTBANK ELEVATION
BA 250	ROADWAY LUMINAIRE

SECTION 5/E-2: ALL CONDUITS SHOWN SHALL BE 4" FIBER DUCT OR 4" RIGID STEEL AS SPECIFIED. DIMENSIONS SHALL BE AS SHOWN ON DUCTBANK AT LEFT. REFER TO DRAWINGS E-9, E-25, & E-26 FOR TERMINATIONS OF CONDUITS. DUCTBANKS DO CONTAIN SPARE CONDUITS.

SECTION 5 E-2
NO SCALE

FIXTURE TYPE "BA" POLE BASE DETAIL
NO SCALE

SITE PLAN
SCALE 1"= 40'-0"

1" = 40' 40 0 40 80
1" = 5'0" 5 0 5 10

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LICENSED PROFESSIONAL ENGINEER ROBERT J. MILLER NO. 34071 STATE OF NEW YORK

MILLER · SIZING, P.C. consulting engineers
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LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

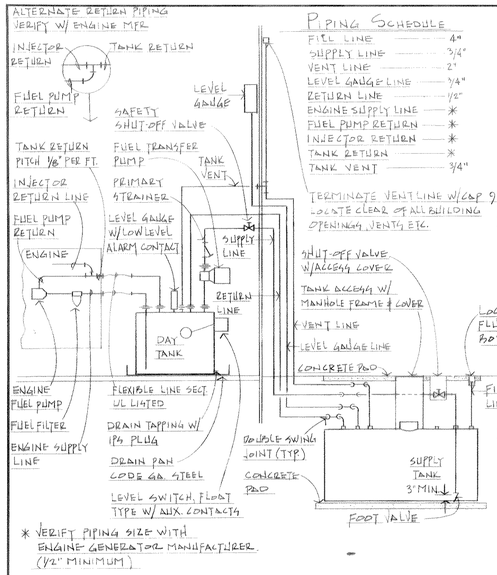
A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
	JRD	4/4/83	RAK			
2	FOR CONSTRUCTION				SGB	2/9/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				SGB	3/31/76
	JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR J.R. Miller APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
EXTERIOR DISTRIBUTION PLAN
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 2 SHEET E 2



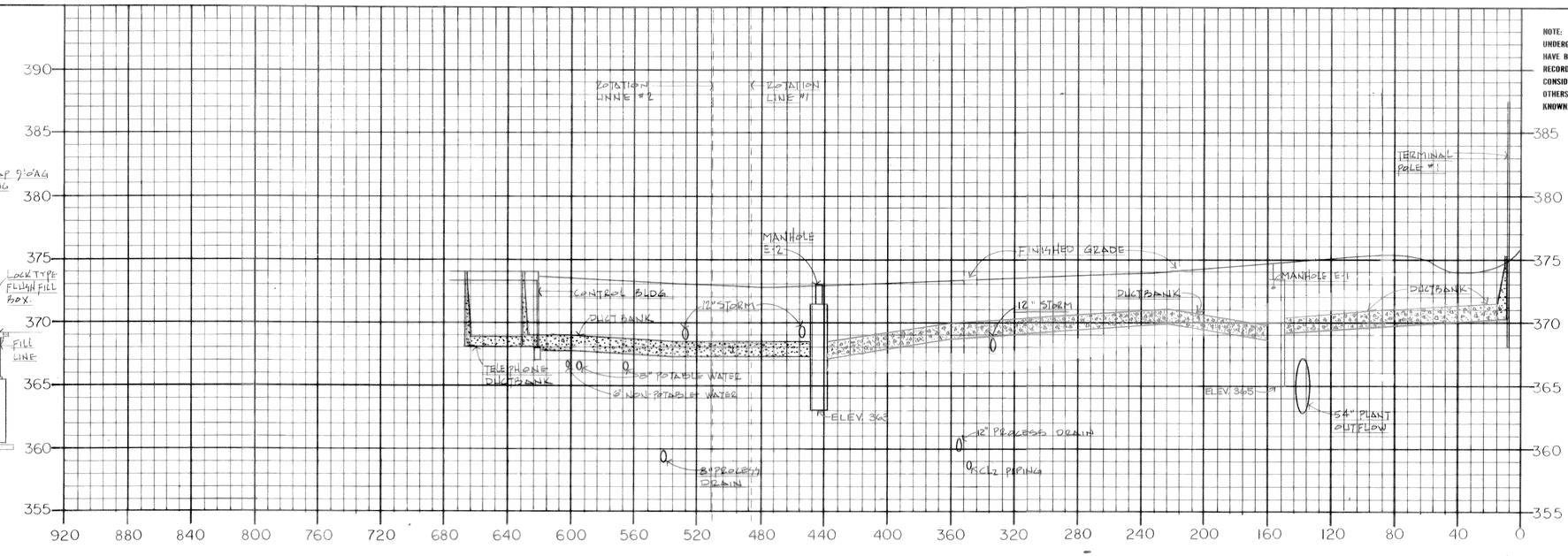
PIPING SCHEDULE

FILL LINE	4"
SUPPLY LINE	3/4"
VENT LINE	2"
LEVEL GAUGE LINE	3/4"
RETURN LINE	1/2"
ENGINE SUPPLY LINE	*
FUEL PUMP RETURN	*
INJECTOR RETURN	*
TANK RETURN	*
TANK VENT	3/4"

TERMINATE VENT LINE W/CAP 9'-0" AG LOCATE CLEAR OF ALL BUILDING OPENINGS, VENTS ETC.

GENERATOR SET FUEL SUPPLY DIAGRAM

NO SCALE — TYPICAL FOR TWO



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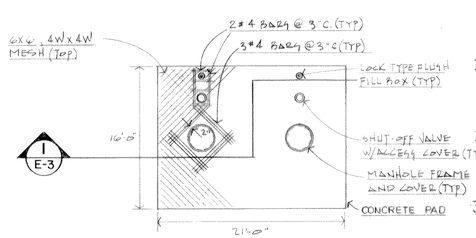
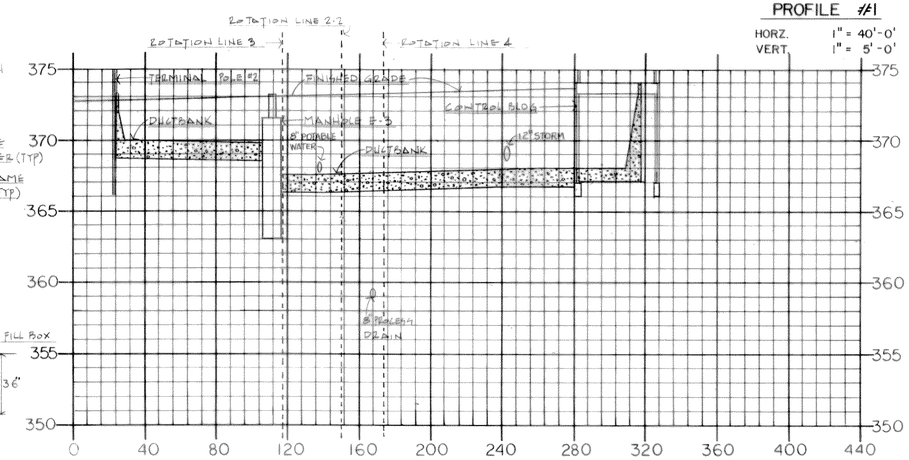


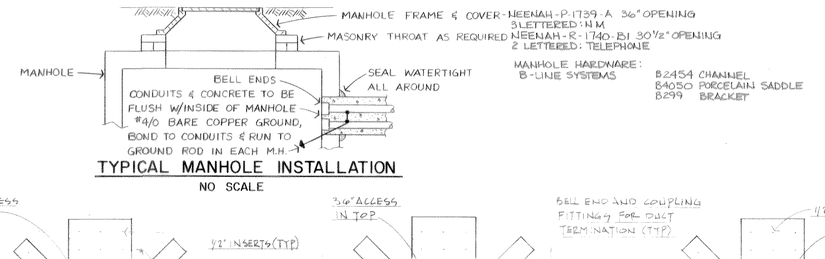
FUEL TANK PAD DETAIL (AT GRADE)

NO SCALE



PROFILE #1

HORZ. 1" = 40'-0"
VERT. 1" = 5'-0"



MANHOLE HARDWARE:
B-LINE SYSTEMS
B2454 CHANNEL
B4050 PORCELAIN SADDLE
B299 BRACKET

TYPICAL MANHOLE INSTALLATION

NO SCALE

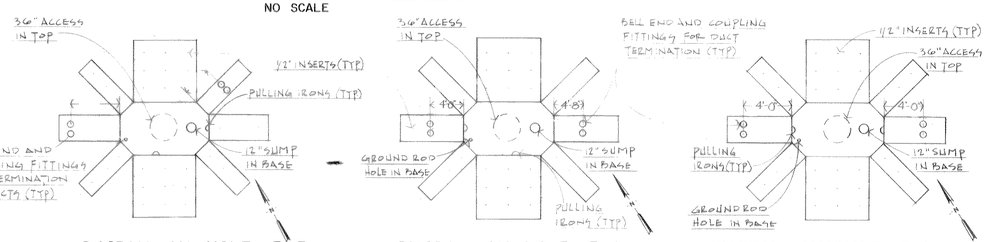


DIAGRAM MANHOLE E-3
6'-0" x 10'-0" x 7'-0"

DIAGRAM MANHOLE E-2
6'-0" x 10'-0" x 7'-0"

DIAGRAM MANHOLE E-1
6'-0" x 10'-0" x 7'-0"

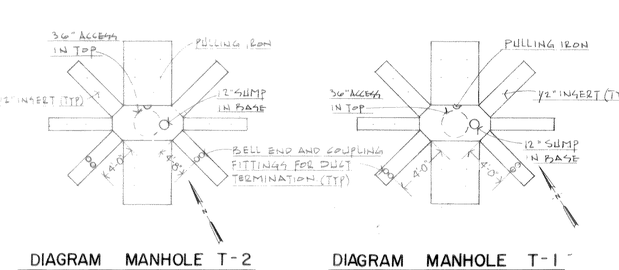
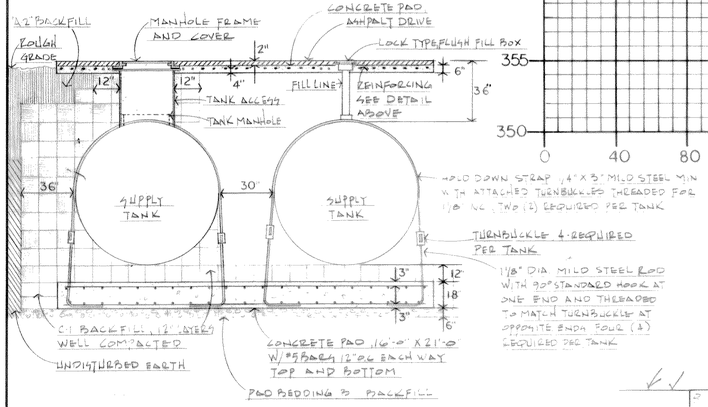


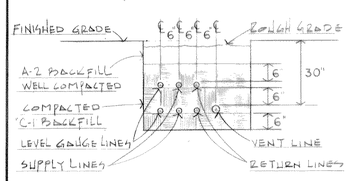
DIAGRAM MANHOLE T-2
4'-0" x 7'-9" x 7'-0"

DIAGRAM MANHOLE T-1
4'-0" x 7'-9" x 7'-0"



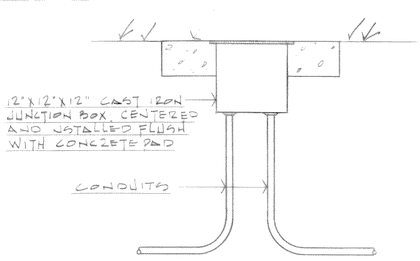
SECTION I / E-3

NO SCALE



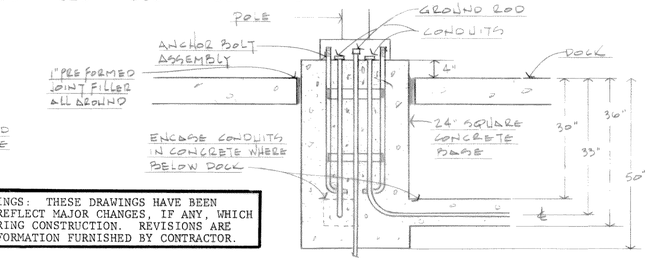
PIPE TRENCH DETAIL

NO SCALE



YARD LIGHTING PULLBOX DETAIL

NO SCALE



MARINE SANITARY STATION POLE BASE DETAIL

NO SCALE

30" X 30" X 6" CONCRETE PAD FLUSH WITH FINISHED GRADE

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1" 40 0 40 80

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REFER TO NMPC DWG. DEN79076 SHT. 2 OF 2

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
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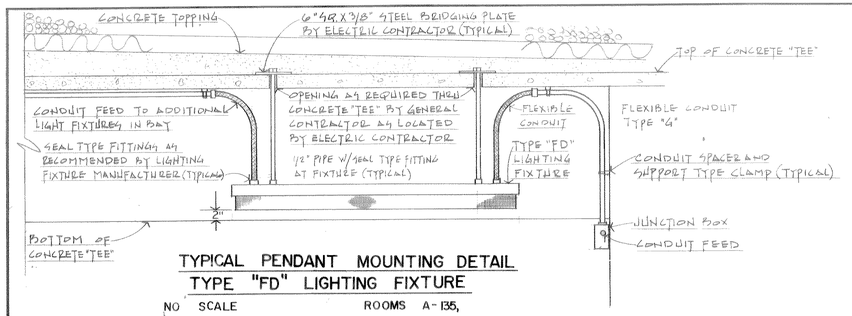
2	FOR CONSTRUCTION					2/24/78
	JOB	2/24/78	JRC	JRC		
1	[illegible]	3/31/[illegible]	JRC	TBA		

PROJECT SUPERVISOR: Joel Summers
APPROVED: S.G. Brubaker

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
EXTERIOR DISTRIBUTION DETAILS

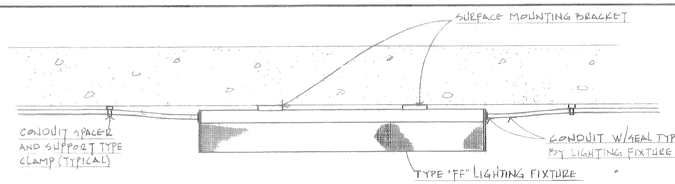
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 3



TYPICAL PENDANT MOUNTING DETAIL
TYPE "FD" LIGHTING FIXTURE

NO SCALE ROOMS A-135,



TYPICAL SURFACE MOUNTING DETAIL
TYPE "FE" LIGHTING FIXTURE

ROOMS A-04, A-07, A-129,
NO SCALE

ROOM NO.	ROOM NAME
A-01	INFLUENT ROOM
A-02	PUMP ROOM
A-03	STAIR "A"
A-04	TUNNEL
A-07	CHEM. FEED AREA

CP	CONTROL PANEL
TI	TAC. INDICATOR
TG	TAC. GENERATOR

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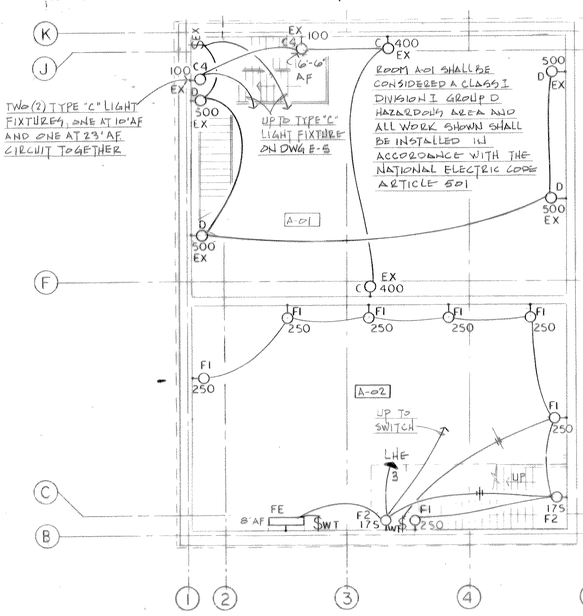


GROUND FLOOR PLAN
SCALE 1/8"=1'-0"

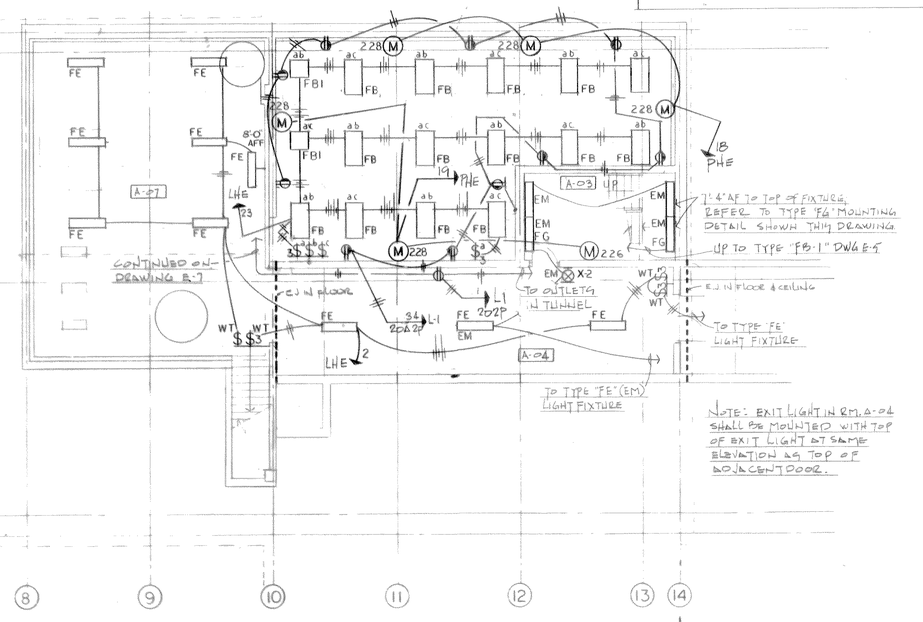
NOTE
ALL TYPE 'C', 'D' & 'F' LIGHT FIXTURES SHOWN THIS DWG SHALL BE MOUNTED 12'-0" AF UNLESS NOTED OTHERWISE

ALL LIGHT SWITCHES SHOWN THIS DRAWING SHALL BE MOUNTED 48" AF UNLESS OTHERWISE NOTED

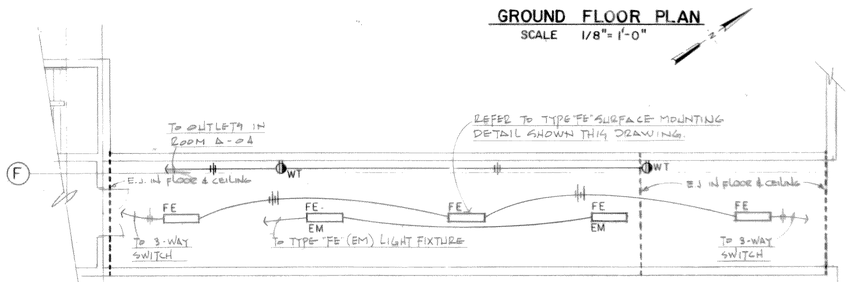
ALL CONVENIENCE OUTLETS SHOWN THIS DRAWING SHALL BE MOUNTED 48" AF UNLESS OTHERWISE NOTED

REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS

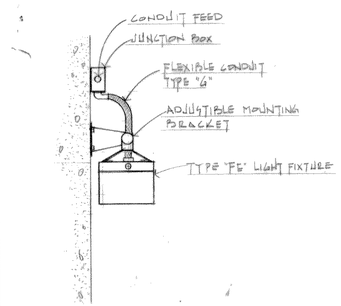
EQUIPMENT GROUND CONDUCTORS NOT SHOWN BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN.



ADDENDUM ITEM NO. 68-
CONTROL BUILDING GROUND FLOOR PLAN LIGHTING-RECEPTACLES-SYMBOL LIST- ADD: ▷— ULTRASONIC SENSOR HEAD

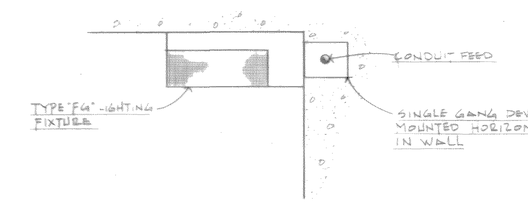


TUNNEL PLAN
SCALE 1/8"=1'-0"



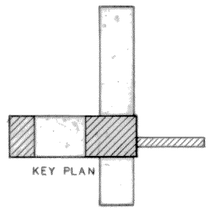
TYPICAL WALL MOUNTING DETAIL
TYPE "FE" LIGHTING FIXTURE

ROOMS . A-02, A-07, A-129, A-133, A-135, A-209
NO SCALE



TYPICAL MOUNTING DETAIL
TYPE "FG" LIGHTING FIXTURE

ROOM A-03; ROOMS A-119, A-121, A-138 SIMILAR
NO SCALE



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GENERAL NOTES

- REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

1/8" = 1'-0" 8 4 0 8 16

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ELECTRIC SYMBOL LIST

LIGHTING & POWER

- FLUORESCENT FIXTURE — FA = TYPE, b = CIRCUIT CORRESPONDING TO SWITCH
- INCANDESCENT OR M.V. FIXTURE CEILING — A = TYPE, 150 = WATTAGE, a = CIRCUIT CORRESPONDING TO SWITCH, 84" = MOUNTING HEIGHT; IF NONE SHOWN, SURFACE MOUNTING OR STANDARD SUSPENSION IS INTENDED
- INCANDESCENT OR M.V. FIXTURE WALL — DESIGNATIONS AS ABOVE
- EXIT LIGHT CEILING — BAR INDICATES FACE, LETTER INDICATES TYPE
- EXIT LIGHT WALL — BAR INDICATES FACE, 84" = MOUNTING HEIGHT, LETTER INDICATES TYPE
- CONVENIENCE OUTLET DUPLEX WALL
- CONVENIENCE OUTLET WALL — 1 = SINGLE, 3 = TRIPLEX
- FLOOR OUTLET — F = FLUSH, S = SURFACE MOUNTING, 1 = SINGLE, 2 = DUPLEX
- CONVENIENCE OUTLET DUPLEX SPLIT WIRED
- SPECIAL PURPOSE RECEPTACLE WALL — LETTER INDICATES TYPE
- WALL SWITCH — a = CIRCUIT CORRESPONDING TO FIXTURE, 3 = THREE WAY, 4 = FOUR WAY, K = KEY OPERATED, P = WITH PILOT LIGHT
- SWITCHES GANGED ON ONE PLATE, LOCATED BY DOT
- JUNCTION BOX CEILING
- JUNCTION BOX WALL
- MOTOR OR ELECTRIC HEATING UNIT, NUMBER INDICATES ITEM ON "ELECTRIC EQUIPMENT & CONTROL SCHEDULE"
- LOCATION OF ONE OR MORE CONTROL DEVICES AS SCHEDULED ON "ELECTRIC EQUIPMENT & CONTROL SCHEDULE", NUMBER INDICATES ITEM CONTROLLED
- HOME RUN TO PANEL — 2 #12 ¾"C. 20A 1P CIRCUIT BREAKER UNLESS OTHERWISE NOTED-NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, L1 = PANEL 1 = CIRCUIT NUMBER
- BRANCH CIRCUITING — 2 #12 ¾"C UNLESS OTHERWISE NOTED, HASH MARKS INDICATE NUMBER OF CONDUCTORS OTHER THAN TWO
- EMPTY CONDUIT ¾" UNLESS OTHERWISE NOTED
- SPECIAL EQUIPMENT — NUMBER INDICATES ITEM ON EQUIPMENT SCHEDULE
- PANEL UNDER 250V
- PANEL OVER 250V
- DISCONNECT SWITCH
- WALKWAY LUMINAIRE
- WALKWAY WORK LIGHT
- REFERS TO NOTE
- TRANSFORMER
- EM EMERGENCY CIRCUIT FIXTURE DEVICE
- WP WEATHERPROOF DEVICE
- EX EXPLOSION PROOF DEVICE
- A.F ABOVE FINISHED FLOOR
- AC ABOVE COUNTER
- AG ABOVE FINISHED GRADE

COMMERCIAL TELEPHONE SYSTEM

- WALL OUTLET
- FLOOR OUTLET

CLOCK SYSTEM

- CLOCK — SK = SKELETON DIAL

FIRE ALARM SYSTEM

- MANUAL STATION
- AUTOMATIC THERMAL DETECTOR
- AUTOMATIC SMOKE DETECTOR
- ALARM BELL SURFACE ON FLUSH BOX
- ALARM BELL WALL RECESSED IN GRILLED BOX
- ALARM HORN
- MAGNETIC DOOR HOLDER
- SPRINKLER FLOW ALARM SWITCH
- EJ EXPANSION JOINT
- DMR DUST & MOISTURE RESISTANT DEVICE & PLATE
- CR CORROSION RESISTANT DEVICE & PLATE
- WT RAINTIGHT DEVICE & PLATE
- WPS WEATHER PROOF DEVICE IN SECURITY ENCLOSURE
- LS LIMIT SWITCH
- FS FLOAT SWITCH
- SV SOLENOID VALVE
- LS LEVEL SWITCH
- PUSHBUTTON STATION
- B FE (DENOTES MATCH LINE "B" ON DWG. E-5)
- MATCH LINE INDICATOR
- A E6 (DENOTES MATCH LINE "A" ON DWG. E-6)
- SS SELECTOR SWITCH
- PE PNEUMATIC/ELECTRIC SWITCH
- MOTOR STARTER

R.J. Miller

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1	FOR APPROVALS				SGB	8/31/76
	JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR: J.R. Lynch APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
GROUND FLOOR PLAN LIGHTING - RECEPTACLES

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 2 SHEET E 4

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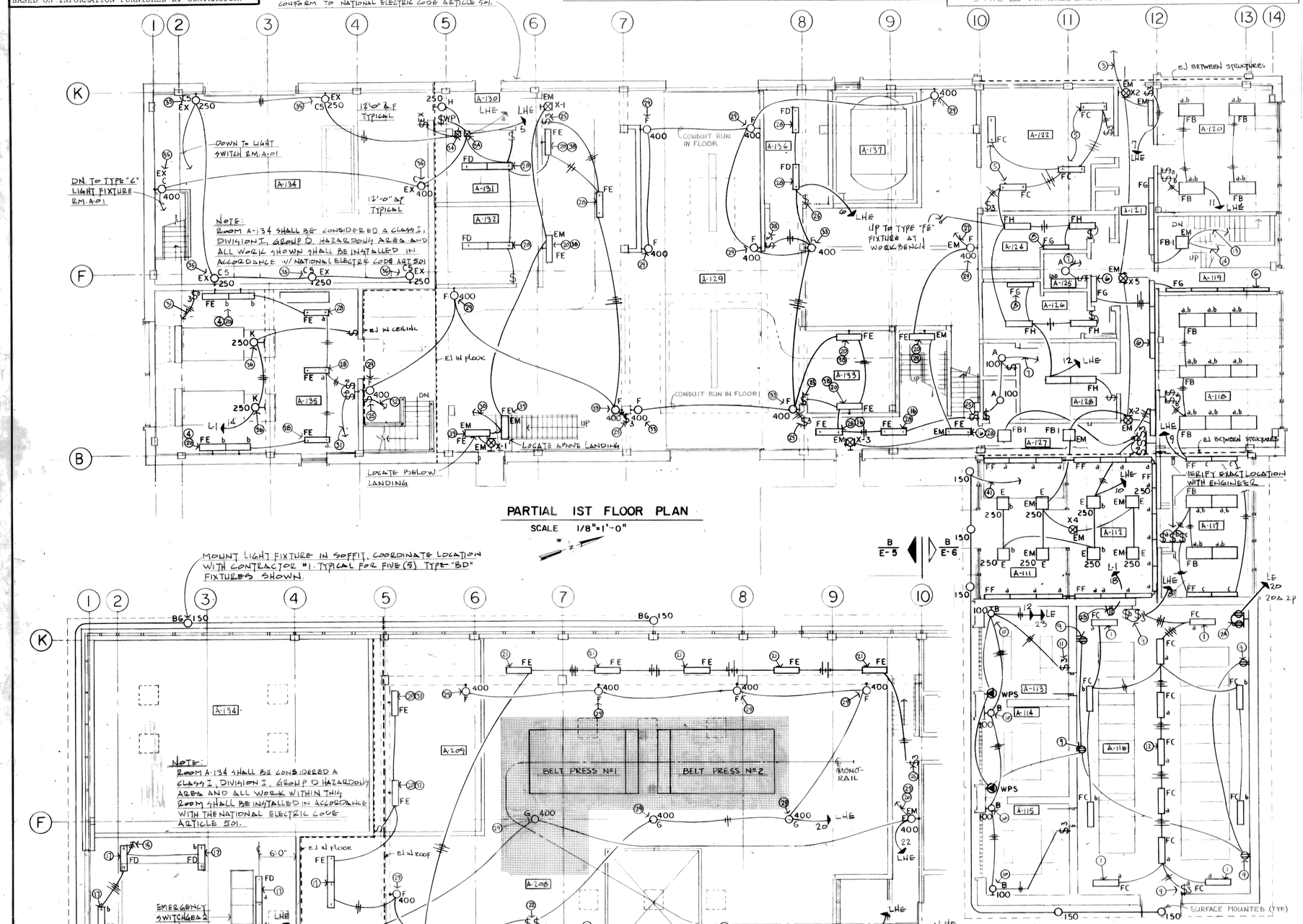
NOTE:
ROOM A-130 SHALL BE CONSIDERED A CLASS I DIVISION II HAZARDOUS AREA ALL WORK SHOWN SHALL CONFORM TO NATIONAL ELECTRIC CODE ARTICLE 501.

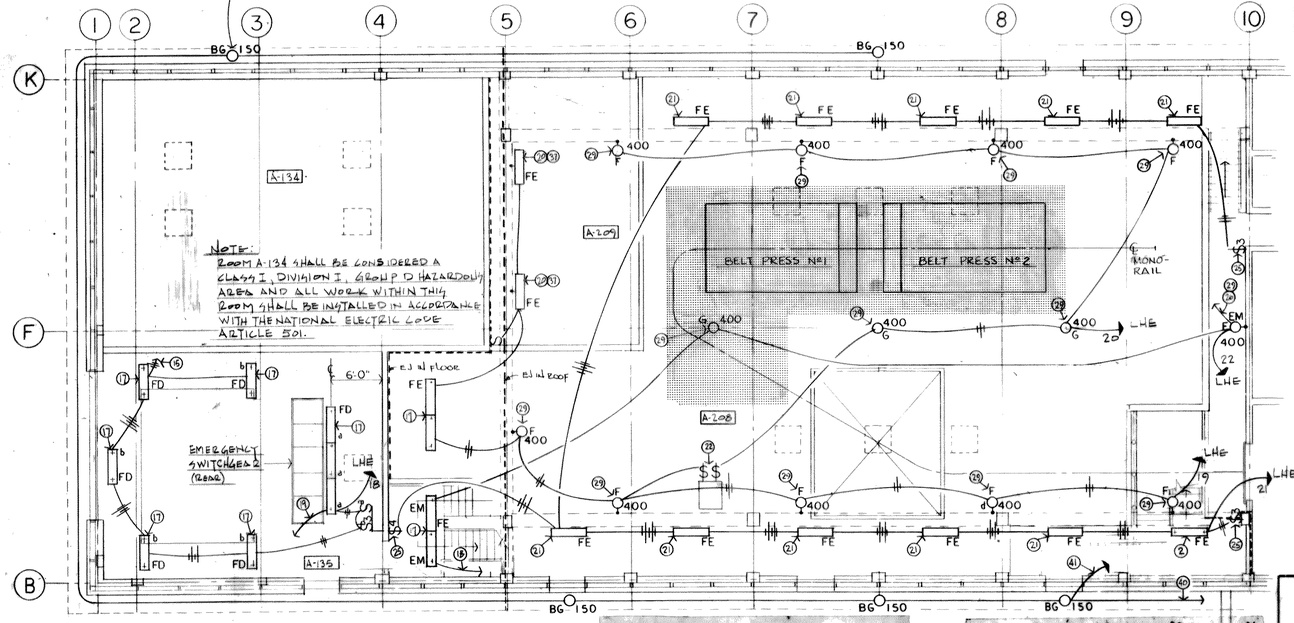
ADDENDUM ITEM NO. 151:
PARTIAL FIRST FLOOR PLAN:
- CHANGE NOTE FOR EXTERIOR LIGHTING TO READ: "MOUNT LIGHTING FIXTURE IN SOFFIT. COORDINATE LOCATION WITH CONTRACTOR #1. TYPICAL FOR 5 'BG' FIXTURES SHOWN."

ADDENDUM ITEM NO. 152:
PARTIAL SECOND FLOOR PLAN:
- CHANGE NOTE FOR EXTERIOR LIGHTING TO READ: "MOUNT LIGHTING FIXTURE IN SOFFIT. COORDINATE LOCATION WITH CONTRACTOR #1. TYPICAL FOR 5 TYPE 'BG' FIXTURES SHOWN."



PARTIAL IST FLOOR PLAN

SCALE 1/8"=1'-0"



PARTIAL 2ND FLOOR PLAN

SCALE 1/8"=1'-0"

GENERAL NOTES
- REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

1/8" = 1'0" (8 4 0 8 16)

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PC 84 SYMBOLS

INDICATES DELETED WORK

INDICATES ADDED WORK

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ROOM NO.	ROOM NAME
A-111	VESTIBULE
A-112	LOBBY
A-113	TRANSFORMER I
A-114	TRANSFORMER II
A-115	TRANSFORMER III
A-116	SWITCHGEAR
A-117	CONFERENCE
A-118	OFFICE
A-119	VESTIBULE
A-120	OFFICE
A-121	CORRIDOR
A-122	MECHANICAL EQUIPMENT
A-124	MEN'S
A-125	JANITOR
A-126	WOMENS
A-127	HALL
A-128	STORAGE
A-129	SLUDGE LOADING AREA
A-130	HALL
A-131	DRY CHEMICAL
A-132	PARTS EQUIPMENT STORAGE
A-134	GRIT SCREENING ROOM
A-135	GENERATOR ROOM
A-208	BELT PRESS AREA
A-209	MECHANICAL EQUIPMENT AREA

NOTES (THIS DRAWING ONLY)

1. MOUNT ON BOTTOM OF CAPACITOR SUPPORT SYSTEM. SEE DETAIL ON DRAWING E-13.
2. SUSPEND TYPE "FE" LIGHT FIXTURE FROM CONDUIT SUPPORT SYSTEM. MOUNT 12'-0" A.F..SIMILAR TO PENDENT MOUNTING DETAIL SHOWN ON DRAWING E-6.
3. CIRCUIT TO EXIT LIGHT IN ROOM A-140 ONDRAWING E-6.
4. WALL MOUNT TYPE "FE" LIGHT FIXTURE 10'-0" A.F. .SIMILAR TO TYPICAL WALL MOUNTING DETAIL SHOWN ON DRAWING E-4.
5. PENDENT MOUNT TYPE "FC" LIGHT FIXTURES 7'-6" A.F. AFTER ALL MECHANICAL WORK IS COMPLETE. REFER TO TYPE "FC" MOUNTING DETAIL ON DRAWING E-6.
6. REFER TO TYPE "FG" LIGHT FIXTURE MOUNTING DETAIL ON DRAWING E-4.
7. CIRCUIT TO DUPLEX CONVENIENCE OUTLETS SHOWN ON DRAWING E-12: PANEL L-1 CURCUIT # 16.
8. WALL MOUNT TYPE "FG" LIGHTING FIXTURE OVER MIRROR. VERIFY EXACT LOCATION AND ELEVATION WITH ENGINEER.
9. MOUNT CONVENIENCE OUTLETS AND LIGHT SWITCHES 4'-0" A.F.. OUTLETS AND SWITCHES SHALL BE TYPE "D.M.R.".
10. MOUNT TYPE "B" LIGHTING FIXTURE 12'-0" A.G.
11. MOUNT CONVENIENCE OUTLETS AND LIGHT SWITCHES 4'-0" A.G. . ALL OUTLETS AND SWITCHES SHALL BE TYPE "WT".
12. MOUNT TYPE "FC" LIGHTING FIXTURES SHOWN IN THIS ROOM 12'-0" A.F. UNLESS OTHERWISE NOTED REFER TO PENDENT MOUNTING DETAIL ON DRAWING E-6.
13. CIRCUIT TO TYPE "FG" LIGHT FIXTURE IN ROOM A-03 ON DRAWING E-4.
14. CIRCUIT TO TYPE "FB-1 LIGHTING FIXTURE SHOWN ON DRAWING E-6.
15. DOWN TO 3-WAY SWITCH ON ROOM A-135.
16. MOUNT 8'-6" A.F.
17. REFER TO TYPE "FD" PENDENT MOUNTING DETAIL SHOWN ON DRAWING E-4.
18. DOWN TO TYPE "FE" LIGHTING FIXTURE AT INTERMEDIATE LANDING.
19. DOWN TO LIGHT SWITCH IN ROOM A-135.
20. REFER TO TYPE "FE" WALL MOUNTING DETAIL SHOWN ON DRAWING E-4.
21. MOUNT TO CONDUIT SUPPORT SYSTEM; REFER TO SECTION 2/E-10 ON DRAWING E-13.
22. MOUNT SWITCHES ON SIDE OF BELT PRESS CONTROL PANEL. REFER TO DRAWING M7A8P FOR LOCATION OF PANEL. SWITCHES SHALL BE TYPE "WT".
23. INSTALL CONVENIENCE OUTLET ON UTILITY COMPANY'S METERING BOARD AS DIRECTED BY NIAGARA MOHAWK POWER COMPANY.
24. INSTALL CONVENIENCE OUTLETS ON UTILITY COMPANY"S TERMINAL BOARD AS DIRECTED BY NEW YORK TELEPHONE COMPANY; TYPE D.M.C.
25. MOUNT SWITCHES 4'-0" A.F. SWITCHES SHALL BE TYPE "WT".
26. DOWN TO TYPE "F" LIGHTING FIXTURE IN ROOM A-129.
27. UP TO TYPE "F" LIGHTING FIXTURE IN ROOM A-208.
28. REFER TO TYPE "FC" PENDENT MOUNTING DETAIL ON DRAWING E-6; MOUNT 10'-0" A.F.
29. MOUNT LIGHT FIXTURE 12'-0" A.F.
30. TO TYPE "FE" LIGHTING FIXTURE AT LANDING.
31. UP TO TYPE "FE" FIXTURE IN ROOM A-135.
32. TO TYPE "F" LIGHTING FIXTURE IN ROOM A-02 ON DRAWING E-4.
33. PROVIDE INSERTS IN COLUMN FOR MOUNTING OF TYPE "F" FIXTURES. INSERTS FURNISHED BY THE ELECTRIC CONTRACTOR TO THE GENERAL CONTRACTOR FOR INSTALLATION. MOUNT FIXTURE 12'-0"A.F.
34. LIGHTING CONTACTOR ELECTRICALLY OPERATED ELECTRICALLY HELD; COIL RATED 120 VOLTS; CONTACTS RATED 600 VOLTS 25 AMPERES PER POLE. INTERLOCK WITH FAN #1 (EQUIPMENT ITEM # 201) SO LIGHTING FIXTURES CANNOT BE TURNED ON UNLESS FAN IS OPERATING.
35. LIGHTING FIXTURE TO BE CONTROLLED BY CONTACTOR THAT IS INTERLOCKED WITH FAN #1 (EQUIPMENT ITEM #201) FIXTURES SHALL NOT OPERATE UNLESS FAN IS OPERATING.
36. REFER TO TYPE "K" LIGHTING FIXTURE MOUNTING DETAIL SHOWN ON DRAWING E-6.
37. PROVIDE INSERTS IN BEAM FOR MOUNTING OF TYPE "FE" LIGHT FIXTURE. INSERTS SHALL BE FURNISHED BY THE ELECTRIC CONTRACTOR TO THE GENERAL CONTRACTOR FOR INSTALLATION. MOUNT FIXTURE 9'-0" A.F.
38. MOUNT LIGHT FIXTURE 10'-0" A.F.
39. REFER TO TYPE "FE" SURFACE MOUNTING DETAIL ON DRAWING E-4.
40. TO TYPE "BG" LIGHTING FIXTURE SHOWN ON DRAWING E-6.
41. TO PANEL "L-1"CIRCUIT # 30 VIA LIGHTING CONTACTOR #1.

KEY PLAN

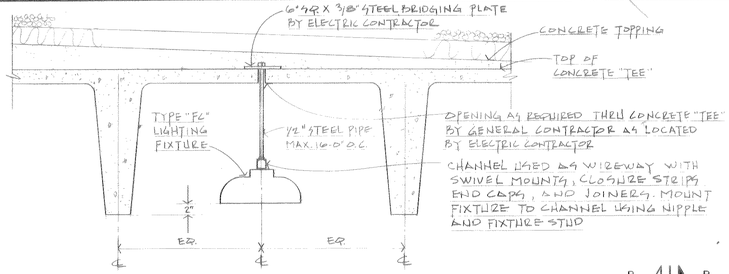
MILLER · SIZING, P.C. consulting engineers
400 SO. WARREN STREET SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD JRD	4/4/83	RAK		JRC	4/4/83
3	PC-84 BELT PRESS WIRING RAK	2/80	JRC	RAK	JLS	3/1/80
2	FOR CONSTRUCTION JOB	2/29/78	JRC	JRC	SGB	2/29/78
1	FOR APPROVALS JRC	3/31/76	JRC	TBA	SGB	3/31/76

PROJECT SUPERVISOR Jack Lawrence APPROVED S.G. Boisbrin

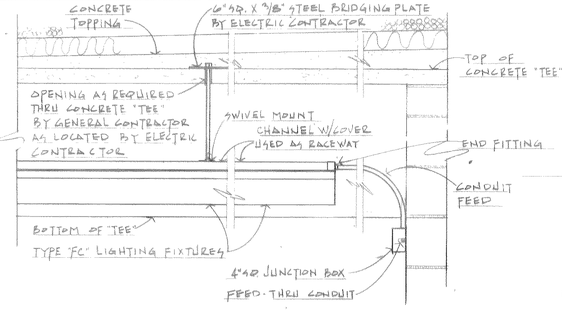
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
IST FLOOR PLAN LIGHTING - RECEPTACLES
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 5 BP



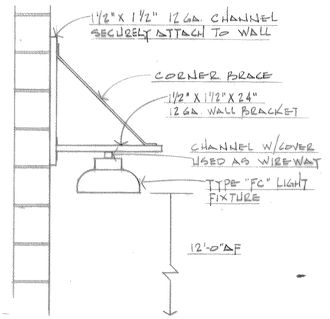
PENDANT MOUNTING DETAIL
TYPE "FC" LIGHTING FIXTURE

ROOMS A-142, A-144, A-153
NO SCALE



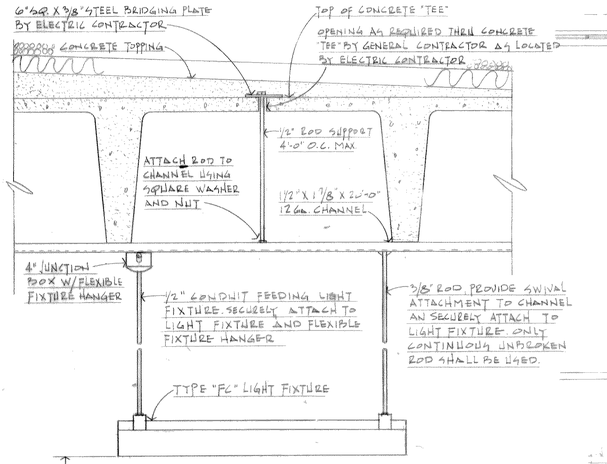
CONDUIT FEED DETAIL
TYPE "FC" LIGHTING DETAIL

ROOMS A-142, A-144, A-153
NO SCALE



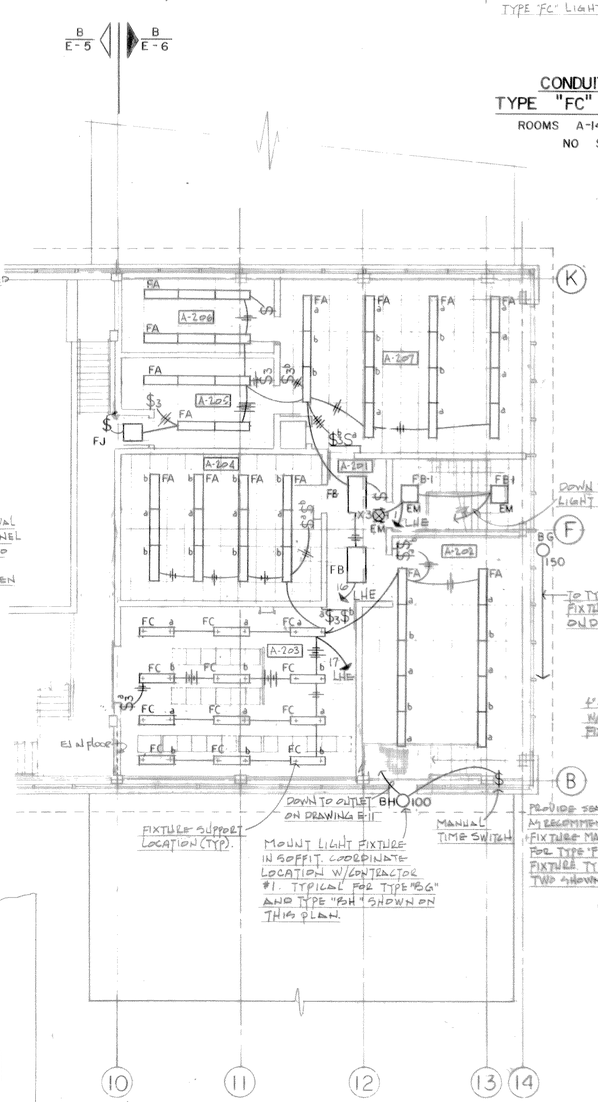
WALL MOUNTING DETAIL
TYPE "FC" LIGHTING FIXTURE

ROOM A-144
NO SCALE



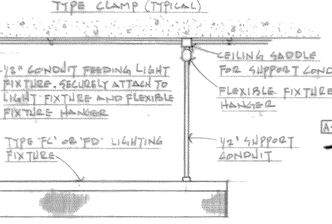
LIGHT FIXTURE MOUNTING DETAIL

NO SCALE ROOM 203



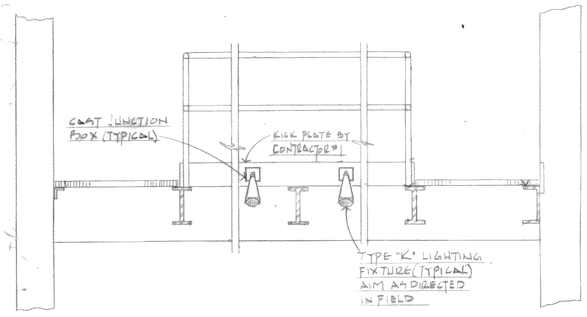
PARTIAL 2ND FLOOR PLAN

SCALE 1/8"=1'-0"



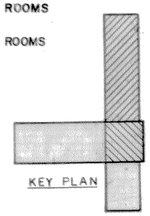
PENDANT MOUNTING DETAIL
TYPE "FC" LIGHTING FIXTURE

ROOMS A-122, A-126
LIGHTING FIXTURE TYPE "FD" IN ROOMS A-131, A-132, A-136 SIMILAR
LIGHTING FIXTURE TYPE "FE" IN ROOMS A-129, A-135 SIMILAR
NO SCALE

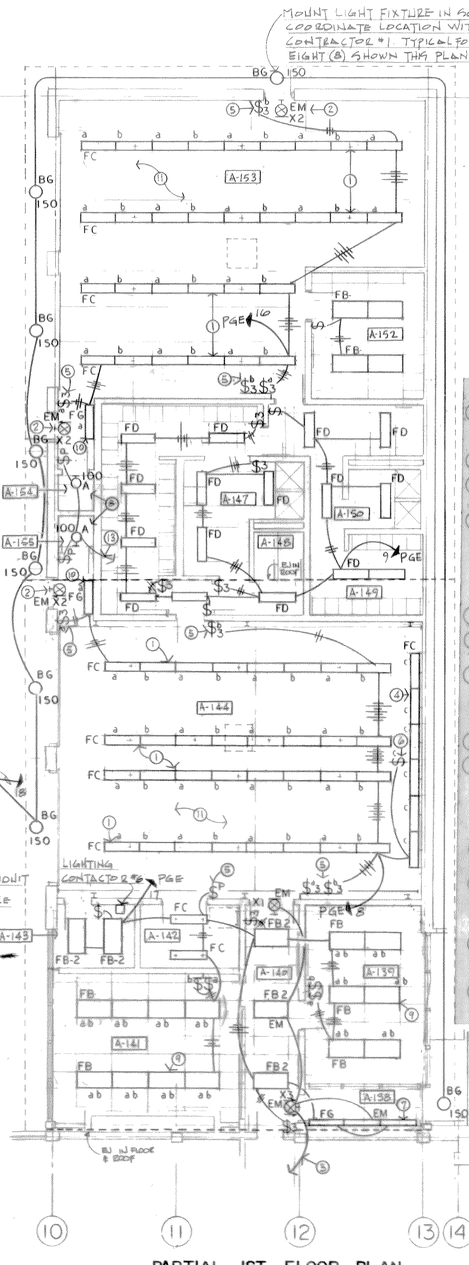


LIGHTING FIXTURE DETAIL

NO SCALE A-135



KEY PLAN



PARTIAL IST FLOOR PLAN

SCALE 1/8"=1'-0"

ROOM NO.	ROOM NAME
A-138	VESTIBULE
A-139	LUNCH ROOM
A-140	CORRIDOR
A-141	INVENT FILES AND MAINT. FORMAN
A-142	STORAGE
A-143	ELECTRIC SHOP
A-144	GARAGE AND SHOP AREA
A-146	LOCKER ROOM
A-147	SHOWER
A-148	TOILET
A-149	LOCKER ROOM
A-150	SHOWER
A-151	TOILET
A-152	LUNCH ROOM
A-153	GARAGE AND WORK AREA
A-154	STORAGE
A-155	STORAGE
A-201	VESTIBULE
A-202	CONTROL ROOM
A-203	MOTOR CONTROL CENTER AND ELECTRIC ROOM
A-204	TRAINING
A-205	BACTERIOLOGY
A-206	OFFICE
A-207	LABORATORY

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTES (THIS DRAWING ONLY)

1. REFER TO TYPICAL MOUNTING DETAILS SHOWN ON THIS DRAWING FOR INSTALLATION OF TYPE "FC" LIGHTING FIXTURES.
2. CIRCUIT WITH EXIT LIGHT SHOWN IN ROOM A-140.
3. CIRCUIT WITH EXIT LIGHT SHOWN IN ROOM A-122 ON DRAWING E-5.
4. WALL MOUNT TYPE "FC" LIGHTING FIXTURES USING 1½" X 1½"; 12 GAUGE STEEL CHANNEL AND CHANNEL FITTINGS. MOUNT LIGHTING FIXTURES 12'-0" A.F. TO TOP OF FIXTURE. MAINTAIN 6" CLEARANCE BETWEEN WALL AND LIGHTING FIXTURE. REFER TO DETAIL THIS DRAWING.
5. MOUNT LIGHT SWITCHS, 48" A.F.
6. MOUNT LIGHT SWITCH, ON WALL BELOW LIGHTING FIXTURES, 43" A.F. AS DIRECTED BY ENGINEER.
7. WALL MOUNT TYPE "FG" LIGHT FIXTURES IN ROOM A-138 AT INTERSECTION OF WALL AND CEILING, TIGHT TO CEILING. SIMILIAR TO WALL MOUNTING DETAIL, TYPE "FG" LIGHTING FIXTURE SHOWN ON DRAWING E-4.
8. WALL MOUNT TYPE "A" LIGHT FIXTURE 8' - 6" A.F.
9. THE "FB" LIGHTING FIXTURES SHOWN IN THIS ROOM ARE FOUR (4) LAMP FIXTURES. ALL INBOARD LAMPS SHALL BE CONTROLLED LAMPS BY A SINGLE SWITCH WHILE ALL OF THE OUTBOARD LAMPS SHALL BE CONTROLLED BY A DIFFERENT SINGLE SWITCH AS SHOWN.
10. WALL MOUNT TYPE "FG" LIGHT FIXTURE INDICATED 8' - 6" A.F.
11. ROOMS 144 AND 153 SHALL BE CONSIDERED CLASS I DIVISION II HAZARDOUS AREAS AND ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 511.
12. REFER TO TYPE "FC" LIGHTING FIXTURE MOUNTING DETAIL FOR ROOM A-203 SHOWN ON THIS DRAWING.
13. CIRCUIT TYPE "A" LIGHT FIXTURE TO DUPLEX CONVENIENCE OUTLETS IN ROOM A-146 ON DRAWING E-12.

ADDENDUM ITEM NO. 13.3: PARTIAL 1ST FLOOR PLAN - ROOM A-150 SHOWER: LIGHT FIXTURES SHALL BE LOCATED AND ORIENTED AS SHOWN ON REFLECTED CEILING PLAN, DWG. A-19.

GENERAL NOTES

REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS.

REFER TO DRAWING A-18 AND A-19 FOR REFLECTED CEILING PLANS.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

1/8" = 1'0" 8 4 0 8 16

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

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A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.		DATE		CHECKED	DESIGNER	APPROVED	DATE
3	RECORD					JRC	4/4/83
	JRD	4/4/83	BAK				
2	FOR CONSTRUCTION						
	JOB	9/2/75	JRC	JRC		S.G.B	9/2/75
1	FOR APPROVALS						
	JOB	3/31/76	JRC		TBA	S.G.B	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
2ND FLOOR AND GARAGE WING
LIGHTING - RECEPTACLES

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 2 SHEET E 6

Rm. No.	ROOM NAME
A-01	INFLUENT RM.
A-02	PUMP RM.
A-04	TUNNEL I
A-07	CHEM. FEED AREA

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

SECTION 1 / E-7

SECTION 2 / E-7

SECTION 3 / E-7

55'-0" N.T.S.

NOTE
ROOM A-01 SHALL BE CONSIDERED A CLASS I DIVISION 1 GROUP D HAZARDOUS AREA AND ALL WORK SHOWN WITHIN THIS AREA SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 501

CONTINUED ON DRAWING E-8

PD-1B

PD-1C

INFLUENT ROOM FLOOD ALARM FLOAT SWITCH REFER TO DIAGRAM ON DWG E-12

BAR SCREEN FLOAT SWITCHES REFER TO DIAGRAM ON DWG E-54

GAS DETECTORS (2) REFER TO GAS DETECTION DIAGRAM ON DWG E-12

ELECTRONIC LEVEL DETECTORS REFER TO DIAGRAMS ON DRAWING E-54

NEMA 4 SELECTOR SWITCH BY CONTRACTOR #1, INSTALLED BY CONTRACTOR #2 (TYPICAL)

NEMA 4 NON FUSED DISCONNECT SWITCH (TYPICAL)

NEMA 4 JUNCTION BOX (TYPICAL)

CONDUITS UP TO WASTE WATER PUMPS CONTROL CABINET

CONTINUED ON DRAWING E-8

SOLENOID VALVE BY CONTRACTOR #1, INSTALLED BY CONTRACTOR #2 (TYPICAL)

TERMINATE CONDUIT ON WALL 10'-0" A.F. CAP.

PUMP ROOM HOIST

LIMIT SWITCH BY CONTRACTOR #1 INSTALLED BY CONTRACTOR #2 (TYPICAL)

TO MARINE SANITARY STATION ON DWG E-1

TO CONTROLLED DIVERSION STRUCTURE ON DWG E-1

UP TO PULLBOXES ON DWG E-8

SLEEVE DRAWING ATTACHED

PUMP # SP-1

PUMP # SP-2

SUPPLY & RETURN LINES UP TO DAY TANK

TOP OF SLEEVES 373.00

VENT LINE UP EXTERIOR OF BUILDING, SUPPORT FROM STRUCTURE

SUPPLY, RETURN & VENT LINES CONT. ON DWG E-2

CONTINUED ON DRAWING E-8

UP TO LIQUID LEVEL GAUGES

TOP OF SLEEVES 373.00

SUMP PUMP CONTROL PANEL BY CONTRACTOR #1 INSTALLED BY CONTRACTOR #2

LIQUID LEVEL LINES CONT ON DWG E-2

1 1/2" X 1 1/2" X 12 GA VERTICAL CHANNEL, WELD TO HORIZONTAL CHANNEL

NEMA 4 JUNCTION BOX

NEMA 4 PUSHBUTTON STATION BY OTHERS INSTALLED BY ELECTRIC CONTRACTOR

NEMA # 4 NON-FUSED DISCONNECT SWITCH

1 1/2" X 1 1/2" X 12 GA HORIZONTAL CHANNEL WELD TO VERTICAL CHANNEL (TYPICAL FOR FOUR CHANNEL)

1 1/2" X 1 1/2" X 12 GA VERTICAL CHANNEL WELD TO HORIZONTAL CHANNEL

FINISHED FLOOR

TYPICAL PUMP CONTROL EQUIPMENT DETAIL
NO SCALE

1 1/2" X 1 1/2" X 12 GA VERTICAL CHANNEL WELD TO HORIZONTAL CHANEL

NEMA 4 NON-FUSED DISCONNECT SWITCH

NEMA 4 JUNCTION BOX SIZE AS REQ'D FOR NO. & SIZE OF CONDUCTORS

SELECTOR SWITCH IN NEMA 4 ENCLOSURE

1 1/2" X 1 1/2" X 12 GA. HORIZONTAL CHANNEL WELD TO VERTICAL CHANNEL

POST BASE CONNECTOR WELD TO CHANNEL

ELEVATION 4/E-7
NO SCALE

POLYMER FEED SYSTEM #1 CONTROL PANEL

SUMP PUMP CONTROL PANEL

PUMP # SP-3

PUMP # SP-4

POLYMER SYSTEM N°1 (BULK POLYMER SYSTEM)

LIQUID POLYMER DILUTION MIXER LEVEL CONTROL PANEL

POSITIONER

PUMP N° PFL-1

PUMP N° PFL 2-3

LIQUID POLYMER DILUTION MIXER

CONTINUED ON DRAWING E-4

CONDUITS CONTINUED ON DRAWING E-8

JUNCTION BOX

CONTINUED ON DRAWING E-11

OVERHEAD

NOTE
PROVIDE TWO CEILING RECESSED SPEAKERS THIS ROOM

NOTE
PROVIDE TWO ADDITIONAL SPEAKERS IN TUNNEL. LOCATE AS DIRECTED BY ENGINEER.

CONTINUED ON DRAWING E-24

ADDENDUM ITEM NO. 154:
PARTIAL FLOOR PLAN BASEMENT:
- ROOM A-01: ADD TWO FLOAT SWITCHES TO EACH WETWELL. REFER TO DRAWING M-3 FOR LOCATION OF WETWELLS AND FLOATS. FLOAT SWITCHES FURNISHED BY CONTRACTOR #1, WIRED BY CONTRACTOR #2. PROVIDE EXPLOSION-PROOF JUNCTION BOX ABOVE WETWELL; LOCATE AS DIRECTED BY ENGINEER. PROVIDE 4#12-¾"C FROM EXPLOSION-PROOF JUNCTION BOX TO WASTEWATER PUMP CONTROLS IN ROOM A-135. TYPICAL FOR TWO (2) WETWELLS.

PARTIAL FLOOR PLAN BASEMENT
SCALE 1/4"= 1'-0"

RISE UP IN THIS WALL

CONTINUED ON DRAWING E-9

48" UNDERGROUND

KEY PLAN

GENERAL NOTES
- REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

PRESSURE RINGS & SEALING GROMMET

PRESSURE CLAMP

OVERSIZED SLEEVE

PIPE

CAP SCREWS

BOOT

6"

BUILDING INTERIOR

TYPICAL THRU - WALL SEAL DETAIL
NO SCALE

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

1/4" = 1'0" 2 0 2 4 6 8 10

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MILLER - SIZING, P.C.
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SYRACUSE, NEW YORK 13202

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD				JRC	4/4/80
	JRD	4M183	RAK			
3	PC-84 BELT PRESS WIRING				JLS	3/19/80
	RAK	2/80	JRC	RAK		
2	FOR CONSTRUCTION				SGB	2/29/76
	JOB	2/24/76	JRC	JRC		
1	FOR APPROVALS				SGB	3/31/76
	JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Brinton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
INFLUENT & TUNNEL LEVEL PLAN - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | PROJECT NO. 2 | SHEET E 7 BP

ROOM NO.	ROOM NAME
A-129	SLUDGE LOADING AREA
A-130	HALL
A-131	CHEM. STORAGE
A-132	PARTS EQUIPMENT STORAGE
A-133	STORAGE
A-134	SCREENINGS ROOM
A-135	GENERATOR ROOM
A-136	POLYMER STORAGE
A-137	LIQUID POLY. TANK

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

NOTE:
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107dp 107dc 107c
80c 81c 82c 106dp 106dc 106c

SECTION 3 / E-8 — NO SCALE

SECTION 1 / E-8 — NO SCALE

NOTE:
ROOM A-134 SHALL BE CONSIDERED A CLASS I DIVISION I GROUP D HAZARDOUS AREA AND ALL WORK WITHIN THIS ROOM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 501

ADDENDUM ITEM NO. 155:
PARTIAL FIRST FLOOR PLAN:
- ROOM A-135: ADD PANELBOARD "P-GR".
- ROOM A-135: PROVIDE THE NECESSARY CIRCUITRY FROM EACH GENERATOR CONTROL PANEL TO THE MAIN CONTROL PANEL IN ROOM A-202 FOR ANNUNCIATION OF THE FOLLOWING ITEMS:
  A. EMERGENCY GENERATOR #1 FAILURE
  B. EMERGENCY GENERATOR #2 FAILURE

PARTIAL FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

TYPICAL OVERHEAD DOOR WIRING DIAGRAM

NO SCALE

GENERAL NOTES
- REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

SECTION 2 / E-8 — NO SCALE

KEY PLAN

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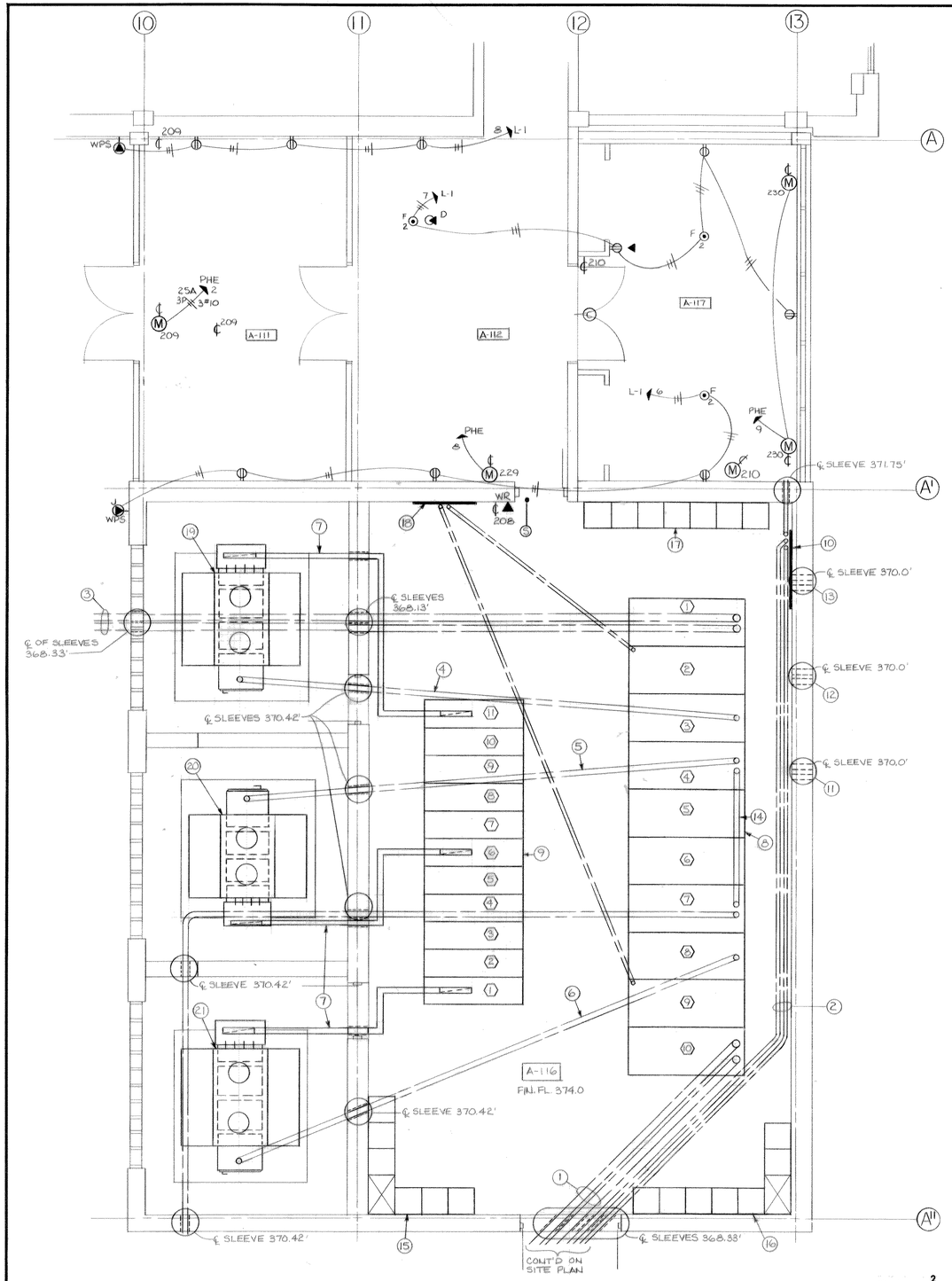
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	JRD	4/14/83	RAK		JRC	4/14/83
3	PC-84 BELT PRESS WIRING				JLS	3/9/80
	RAK	2/80	JRC	RAK		
2	FOR CONSTRUCTION				SGB	2/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				SGB	3/31/76
	JOB	3/31/76	- BC	TBA		

PROJECT SUPERVISOR: Joel Lawson — APPROVED: S.G. Brigham

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
1ST FLOOR PLAN SECTION "A" - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 — CONTRACT NO. 2 — SHEET E 8 BP



NOTE : CONDUIT SHOWN ——— = ——— = ——— IS BELOW FLOOR LEVEL

480 VOLT SWITCHGEAR LEGEND

1A - INSTRUMENTS
1BC - MAIN CIRCUIT BREAKER #1
1D - BLANK
2A - INSTRUMENTS
2B - SPARE CIRCUIT BREAKER
2C - FEEDER CIRCUIT BREAKER - MCC III
2D - FEEDER CIRCUIT BREAKER - CAPACITOR BANK #1
3A - INSTRUMENTS
3B - FEEDER CIRCUIT BREAKER - MCC VI
3C - FEEDER CIRCUIT BREAKER - HVU #2
3D - SPACE
4A - INSTRUMENTS
4BC - TIE CIRCUIT BREAKER #1-2
4D - BLANK
5A - INSTRUMENTS
5B - SPACE
5C - FEEDER CIRCUIT BREAKER - MCC IX
5D - SPARE CIRCUIT BREAKER
6A - INSTRUMENTS
6BC - MAIN CIRCUIT BREAKER #2
6D - FEEDER CIRCUIT BREAKER - MCC II
7A - INSTRUMENTS
7B - FEEDER CIRCUIT BREAKER - MCC VII
7C - FEEDER CIRCUIT BREAKER - MCC VIII
7D - FEEDER CIRCUIT BREAKER - CAPACITOR BANK #2
8A - INSTRUMENTS
8BC - TIE CIRCUIT BREAKER #2-3
8D - SPACE
9A - INSTRUMENTS
9B - SPACE
9C - SPARE CIRCUIT BREAKER
9D - FEEDER CIRCUIT BREAKER - MCC V
10A - INSTRUMENTS
10B - FEEDER CIRCUIT BREAKER - CAPACITOR BANK #3
10C - FEEDER CIRCUIT BREAKER - MCC I
10D - FEEDER CIRCUIT BREAKER - MCC IV
11A - INSTRUMENTS
11BC - MAIN CIRCUIT BREAKER #3
11D - BLANK

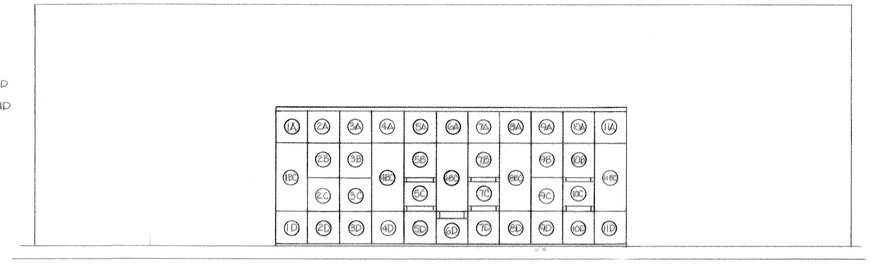
NOTES

(1) BARBARA LANE ELECTRIC SERVICE, 2-5" GALV. STEEL CONDUITS
(2) BARBARA LANE TELEPHONE SERVICE, 2-3" CONDUITS
(3) DEWITT DRIVE ELECTRIC SERVICE, 2-5" GALV. STEEL CONDUITS
(4) TRANSFORMER NO. 3 FEEDER - 3#4/0 15KV, 1#1/0 GR - 4"C
(5) TRANSFORMER NO. 2 FEEDER - 3#4/0 15 KV, 1#1/0 GR - 4"C
(6) TRANSFORMER NO. 1 FEEDER - 3#4/0 15 KV, 1#1/0 GR - 4"C
(7) SECONDARY BUSWAY - 3000 AMP
(8) 15 KV SWITCHGEAR - SECTIONS NUMBERED - SEE ELEVATION & LEGEND
(9) 480 V SWITCHGEAR - SECTIONS NUMBERED - SEE ELEVATION & LEGEND
(10) TELEPHONE TERMINAL BOARD
(11) MCC VI & X FEEDERS
(12) MCC VIII & IX FEEDERS
(13) MCC V & VII FEEDERS
(14) TIE CONDUIT (4") BETWEEN BAYS #4 & #7
(15) CAPACITOR BANK CONTROLLERS #1
(16) CAPACITOR BANK CONTROLLERS #2
(17) CAPACITOR BANK CONTROLLERS #3
(18) METERING INSTRUMENT BOARD
(19) TRANSFORMER NO. 3 - 2000 KVA
(20) TRANSFORMER NO. 2 - 2000 KVA
(21) TRANSFORMER NO. 1 - 2000 KVA

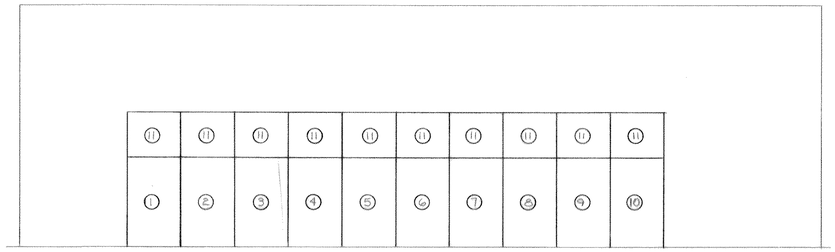
RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

15 KV SWITCHGEAR LEGEND

1 - MAIN BREAKER 52-1M
2 - NIAGARA MOHAWK COMPT.
3 - FEEDER BREAKER 52-1F1
4 - FEEDER BREAKER 52-1F2
5 - TIE BREAKER 52-T
6 - STATION BATTERY & CHARGER
7 - FEEDER BREAKER 52-2F2 SPACE
8 - FEEDER BREAKER 52-2F1
9 - NIAGARA MOHAWK COMPT.
10 - MAIN BREAKER 52-2M
11 - METERS & INSTRUMENTATION



ELEVATION - 480 VOLT SWITCHGEAR
SEE LEGEND



ELEVATION - 15KV SWITCHGEAR
SEE LEGEND

NOTES:

Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

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1/4" = 1'0" 2 0 2 4 6 8 10

- REDRAWN PER INFORMATION PROVIDED BY SQUARE D CO. DRAWINGS & CONTRACTORS RECORD DRAWINGS

MILLER ENGINEERS, P.C.
MECHANICAL - ELECTRICAL - STRUCTURAL
P.O. Box 126
Brewerton, N. Y. 13029

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD					
	JRD	4/4/83	RAK		JRC	4/4/83

PROJECT SUPERVISOR _____ APPROVED _____

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
ELECTRIC SERVICE ROOM PLAN POWER

Stearns & Wheler
ENGINEERS AND SCIENTISTS
CAZENOVIA, NEW YORK DARIEN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E-9

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

Rm. No.	ROOM NAME
A-134	SCREENINGS RM.
A-135	GENERATOR RM.
A-208	BELT PRESS AREA
A-209	MECH. EQUIP. AREA

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION WITH ENGINEER

CONTINUED ON DRAWING E-8

PULLBOXES

CONTINUED ON DRAWING E-8

NOTE:
ROOM A-134 SHALL BE CONSIDERED A CLASS I DIVISION I GROUP D AREA AND ALL WORK SHOWN FOR THIS ROOM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 501

COMBUSTION GAS DETECTOR UNIT REFER TO DIAGRAM ON DWG E-12

CONTINUED ON DRAWING E-8

DN TO DUPLEX OUTLET ON DWG E-8

EMERGENCY SWITCHGEAR SEE ELEVATION ON DRAWING E-13

SILENCERS

DN TO DUPLEX OUTLETS ON DWG E-8

MOUNT TO UNDERSIDE OF SOFFIT VERIFY EXACT LOCATION W/ENGINEER

INTRINSIC RELAY FOR INFLUENT ZOOM FLOOD ALARM REFER TO DIAGRAMS ON DRAWING E 12 & E 54

TO MCP ROOM A-202
1 - 2" C. w/20 #14
1 - 2" SPARE

CONDUIT ON FIRST FLOOR CEILING

MOUNT TELEPHONE ON CONTROL PANEL

BELT PRESS CONTROL PANEL

MOUNT 12'-0" A.F.F. VERIFY EXACT LOCATION WITH ENGINEER

SEE ATTACHED SHOP DRAWING

HYDRAULIC PUMP #1 - 12HP

WATER BOOSTER PUMP #1 10HP

TO MCC I

EYE WASH HTR

TO MCC II

WATER BOOSTER PUMP #2 10 HP

HYDRAULIC PUMP #2 1½ HP

UNIT MOUNTED ITEMS FOR EACH BELT PRESS INCLUDE: BELT DRIVE, WATER PRESSURE SW., POLYMER LEVEL SW., NO CAKE SW., BELT ALIGN. SW., EMER STOP PB., LOW HYD. PRESS SW., VERIFY W/ CTRT EXACT LOCATION SEE SH. E-56 BP

EXHAUST FAN #2

EXHAUST FAN #3

BELT PRESS Nº1

BELT PRESS Nº2

PULLBOXES

DOWN TO TYPE FH FIXTURE ON DWG E-5

WORK BENCH BY CONTRACTOR #1

TYPE FE FIXTURE, SEE DETAIL DWG E-13

PULLBOXES

CONTINUED ON DRAWING E-8

ROOF HATCH - REROUTE CONDUITS TO AVOID SAME.

PULLBOXES

FILTER ROOM HOIST

EJ AT ROOF

CONTINUED ON DRAWING E-11

201	1
2	3
203	205
204	107e
107b	106e
106b	106a
107a	
FC6	
FC5	FC4
FC3	FC2
82p	FC1
81p	174
80p	PT4
106dc	142c
106dp	142p
106c	143p
107dc	79p
107dp	145p
107c	144p
119	144c
133	75
74	73
119	

REFER TO EXHAUST ROOF OPENING DETAIL ON DWG E-13

SCHEDULE 40 EXHAUST PIPING

SILENCER

LIGHT FIXTURE

FEEDER CONDUITS

PULLBOX

EMERGENCY SWITCHGEAR

SILENCER

NOTE SUPPORTS FOR SILENCERS BY CONTRACTOR #1

SCHEDULE 40 EXHAUST PIPING

FLEXIBLE EXHAUST PIPING

FLEXIBLE CONDUIT

ENGINE GENERATOR SET

VIBRATION ISOLATORS

CONCRETE PAD

SECTION (1/E-10) NO SCALE

ADDENDUM ITEM NO. 157:
PARTIAL SECOND FLOOR PLAN:
- ROOM A-135: PROVIDE THE NECESSARY CIRCUITRY FROM THE GENERATOR SWITCHGEAR TO THE MAIN CONTROL PANEL IN ROOM A-202 FOR ANNUNCIATION OF THE FOLLOWING ITEMS:
  A. EMERGENCY GENERATOR #1 MAIN BREAKER TRIPPED.
  B. EMERGENCY GENERATOR #2 MAIN BREAKER TRIPPED.

GENERAL NOTES

- REFER TO DRAWING E-11 FOR PANELBOARD LOCATIONS.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

1/4" = 1'-0"

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PARTIAL SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

KEY PLAN

A/E-10 A/E-11

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

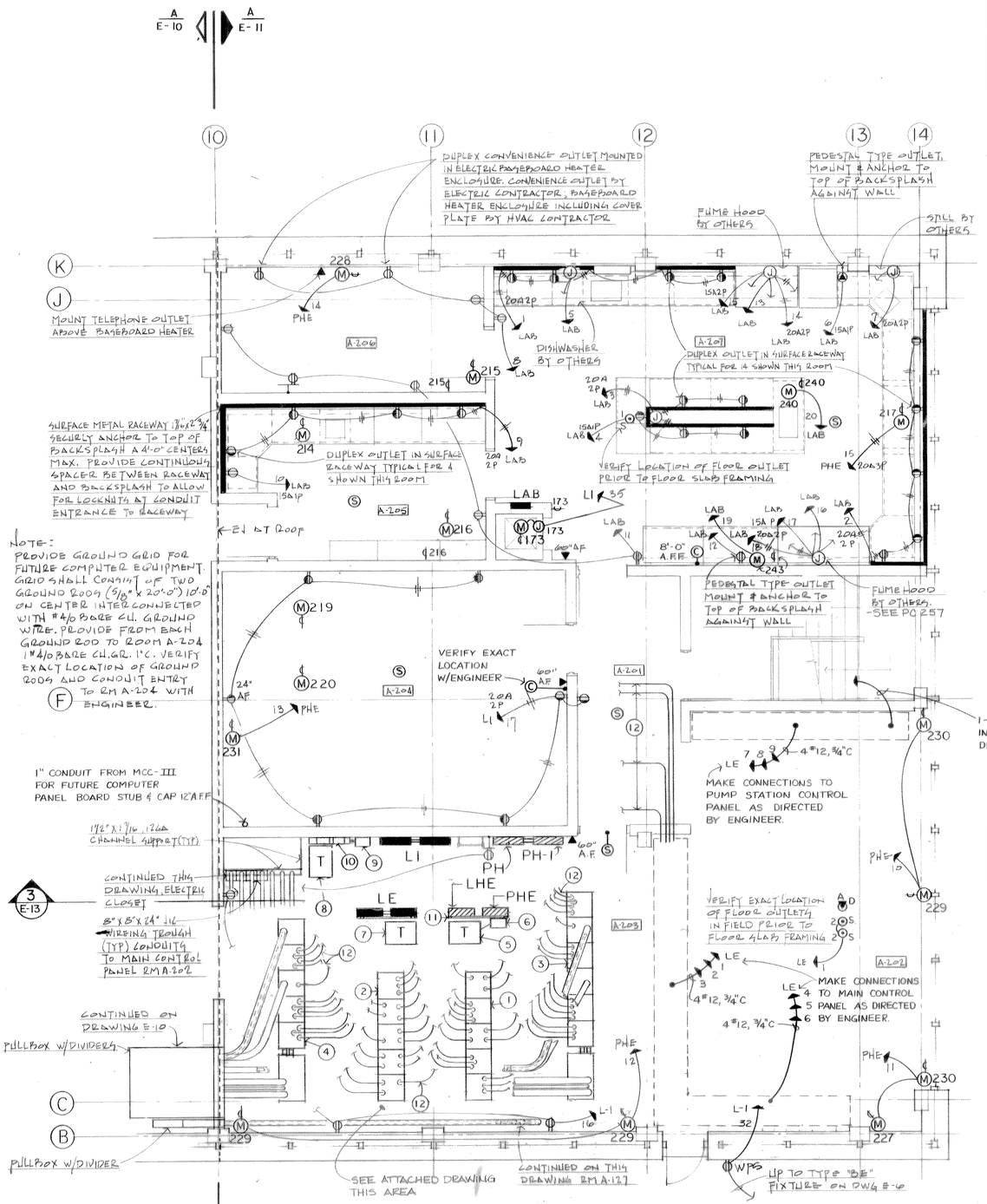
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD JRD	4/14/83	RAK		JRC	4/14/83
3	PC-84 BELT PRESS WIRING RAK	2/80	JRC	RAK	JLS	3/19/80
2	FOR CONSTRUCTION JOB	7/24/78	JRC	JRC	SCB	2/24/78
1	FOR APPROVALS JOB	3/31/76	JRC	TBA	SCB	3/31/76

PROJECT SUPERVISOR: Joel Stevens — APPROVED: S.C. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
2ND FLOOR PLAN SECTION "A" - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
EAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 10 BP



PARTIAL SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

ADDENDUM ITEM NO. 158: PARTIAL 2ND FLOOR PLAN-
A. ROOM A-202: REFER TO DWG M-71 FOR EXACT LOCATION OF MAIN CONTROL PANEL.
B. ROOM A-203: ADJUST MOTOR CONTROL CENTER III TO PROVIDE A 4'-0" MIN. ISLE BETWEEN BACK OF OF MOTOR CONTROL CENTER III AND BACK OF MAIN CONTROL PANEL.

GENERAL NOTE

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

NOTE:
PROVIDE GROUND GRID FOR FUTURE COMPUTER EQUIPMENT. GRID SHALL CONSIST OF TWO GROUND RODS (5/8" X 20'-0") 10'-0" ON CENTER INTERCONNECTED WITH #4/0 BARE CU. GROUND WIRE. PROVIDE FROM EACH GROUND ROD TO ROOM A-204 1#4/0 BARE CU. GR. 1"C. VERIFY EXACT LOCATION OF GROUND RODS AND CONDUIT ENTRY TO RM A-204 WITH ENGINEER.

PANEL SCHEDULE

PANEL: LAB. MOUNTING: FLUSH MAINS: 225AMP
LOCATION: A-207 MAIN BKR.:
POWER CHARACTERISTICS: 208/120V. 3 ϕ 4W POLE SPACES:
MINIMUM INTERRUPTING CAPACITY: 10,000

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	OUTLETS	20	2	100AMP		1
2	OUTLETS	20	2			1
3	OUTLETS	20	2			1
4	REFRIGERATOR	15	1			
5	DISHWASHER	20	1			2
6	INCUBATOR	15	1			2
7	STILL	20	2			2
8	OUTLETS	20	1			
9	OUTLETS	20	2			1
10	REFRIGERATOR	15	1			
11	OUTLETS	20	1			
12	OUTLETS	20	1			
13	FUME HOOD	20	1			2
14	FUME HOOD	20	2			2
15	FUME HOOD	15	2			2
16	FUME HOOD	20	1			2
17	FUME HOOD	15	2			2
18	FUME HOOD	20	2			2
19	VAC PUMP	20	1			2, 5
20	EYE WASH	20	1			2, 4
	SPARE					
	SPARE	20				
	SPACE					
	SPACE		2			
	SPACE		2			
	SPACE		2	100AMP		

NOTES (PANEL SCHEDULE ONLY)

1. OUTLETS ARE SLIT WIRED. CONNECT TO 2 POLE CIRCUIT BREAKER AS SHOWN.
2. PROVIDE FLEXIBLE CONNECTION TO EQUIPMENT AS REQUIRED BY MANUFACTURERS SHOP DRAWING.
3. PROVIDE 3 - 1/2" CONDUITS AND 3 - 1" CONDUITS FROM PANEL TO ACCESSIBLE CEILING SPACE IN ROOM A-207.
4. PROVIDE DISCONNECT SWITCH ADJACENT TO UNIT.
5. PROVIDE FLUSH MOUNTED MANUAL MOTOR STARTER ABOVE COUNTER.

NOTES (PARTIAL SECOND FLOOR PLAN ONLY)

1. MOTOR CONTROL CENTER I
2. MOTOR CONTROL CENTER II
3. MOTOR CONTROL CENTER III
4. MOTOR CONTROL CENTER IV
5. TRANSFORMER "LAB"
6. CIRCUIT BREAKER "LAB"
7. TRANSFORMER "LE"
8. TRANSFORMER "L-1"
9. TIME CLOCK FOR CONTROL OF LIGHTING CONTACTORS
10. LIGHTING CONTACTORS #1 thru #5 FOR CONTROL OF EXTERIOR LIGHTING.
11. VERTICLE SUPPORTS 1 7/16" X 1 1/2" CHANNEL WITH 3/4" PLYWOOD BACKBOARDS. SECURELY ATTACH TO FLOOR AND SUPPORT SYSTEM FOR LIGHTING FIXTURES AND CONDUITS. TYPICAL FOR FOUR (4) VERTICLE SUPPORTS.
12. REFER TO DRAWING E-10 FOR CONTINUATION OF CONDUITS. TYPICAL

Rm. No.	ROOM NAME
A-121	CORRIDOR
A-127	HALL
A-128	STORAGE
A-201	VESTIBULE
A-202	CONTROL RM.
A-203	MOTOR CONTROL CENTER & ELEC. RM.
A-204	TRAINING
A-205	BACTERIOLOGY
A-206	OFFICE
A-207	LABORATORY

NOTE:
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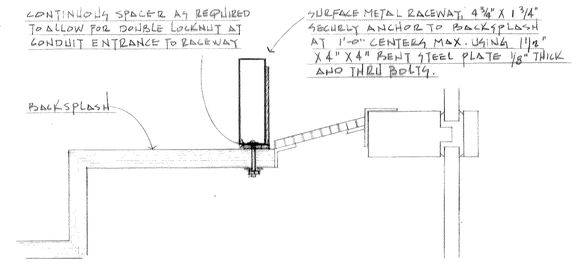
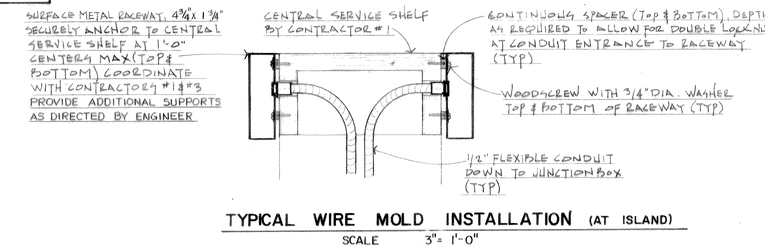


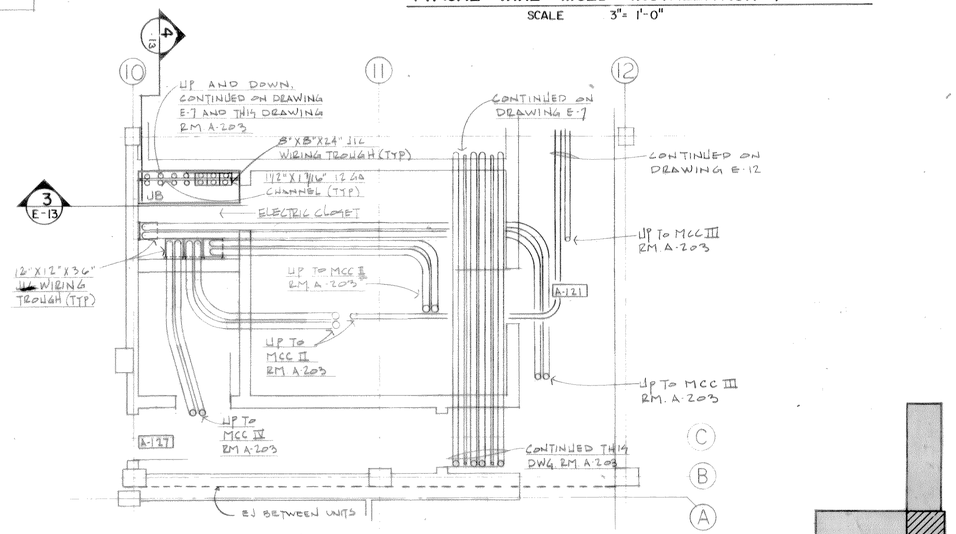
TYPICAL WIRE MOLD INSTALLATION (AT COUNTER)

SCALE 3" = 1'-0"



TYPICAL WIRE MOLD INSTALLATION (AT ISLAND)

SCALE 3" = 1'-0"



PARTIAL FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

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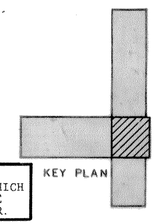
KEY PLAN



3" = 1'0" 0 3 6 9 1
1/4" = 1'0" 2 0 2 4 6 8 10

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R. S. Miller
MILLER - SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

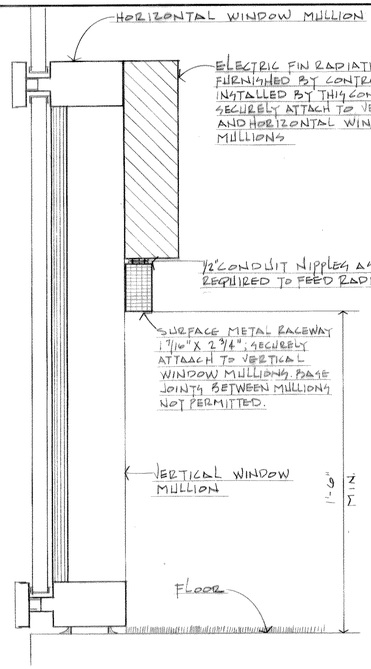
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/14/83
	JRD	4/14/83	RAK			
2	FOR CONSTRUCTION				S.C.B	2/24/78
	JOB	12/20/78	JRC	JRC		
1	FOR APPROVALS				S.C.B	3/31/76
	JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.C. Bishop

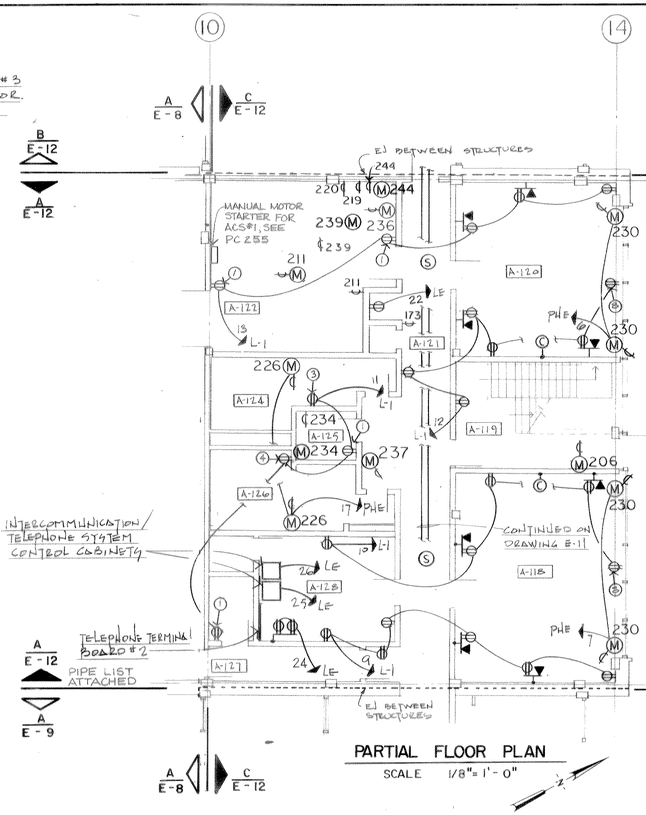
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
2ND FLOOR PLAN SECTION "B" - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 11



SURFACE RACEWAY INSTALLATION
ROOMS A-139 & A-141
NO SCALE



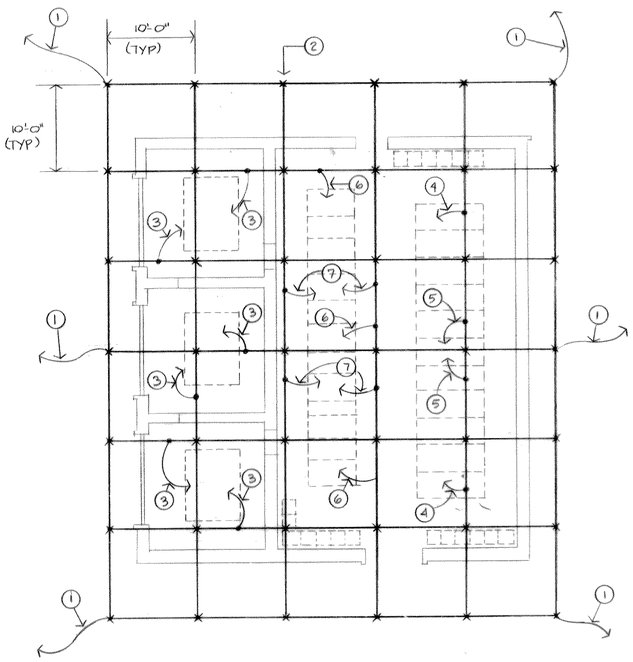
PARTIAL FLOOR PLAN
SCALE 1/8"= 1'-0"

GENERAL NOTES

MOUNT ALL DUPLEX CONVENIENCE OUTLETS AND TELEPHONE OUTLETS IN ROOMS A-138 THROUGH A-155 18" A.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.

EQUIPMENT GROUND CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO THE NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

IN CLASS I DIVISION II HAZARDOUS AREAS ALL FITTINGS, COUPLINGS, BOXES, ETC., ARE PROHIBITED BELOW 18" A.F. ALL CONDUITS PASSING THROUGH THIS HAZARDOUS AREA MUST BE CONTINUOUS PER NATIONAL ELECTRIC CODE ARTICLE 501. CONDUITS ENCASED IN 2" CONCRETE SHALL BE CONSIDERED OUTSIDE OF HAZARDOUS AREA.

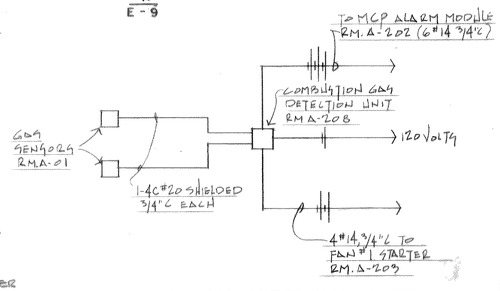


ELECTRICAL SWITCH GEAR ROOM GROUND GRID
NO SCALE

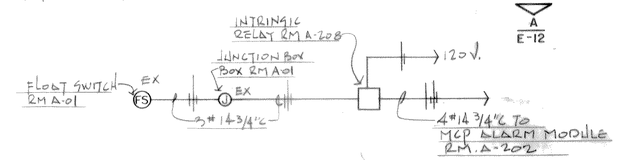
F.F. = 374.0
TOP OF GND. ROD @ 372.0

ELECTRICAL SWITCH GEAR ROOM GROUND GRID NOTES:

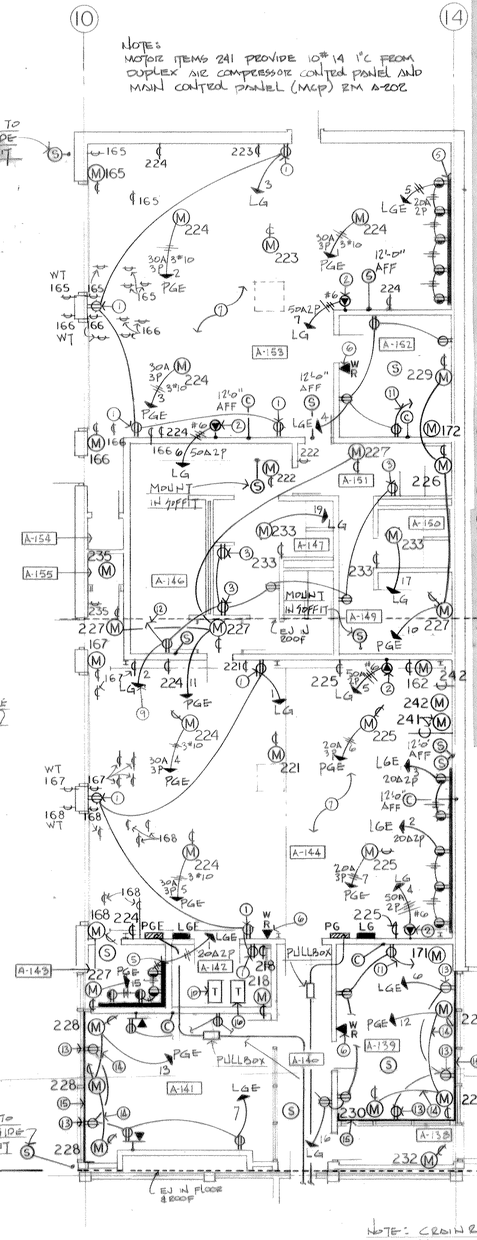
1. 1-#4/0 BARE CU GROUND WIRE TO LIGHTNING PROTECTION SYSTEM LOOP REFER TO DWG E1.
2. 5/8" x 20'-0" SECTIONAL TYPE COPPERWELD GROUND ROD. INTERCONNECT GROUND RODS WITH #4/0 BARE CU GROUND WIRE TYPICAL.
3. 1-#4/0 BARE CU GROUND WIRE TO TRANSFORMER GROUND PAD.
4. 1-#4/0 BARE CU GROUND WIRE TO PRIMARY SWITCH GEAR GROUND BUS AT MAIN SERVICE DISCONNECTS.
5. 1-#4/0 BARE CU GROUND WIRE TO PRIMARY SWITCH GEAR GROUND BUS AT TIES CIRCUIT BREAKER.
6. 1-#4/0 BARE CU GROUND WIRE TO SECONDARY SWITCH GEAR GROUND BUS AT MAIN CIRCUIT BREAKERS.
7. 1-#4/0 BARE CU GROUND WIRE TO SECONDARY SWITCH GEAR GROUND BUS AT TIE CIRCUIT BREAKERS.



COMBUSTION GAS DETECTION SYSTEM
NO SCALE

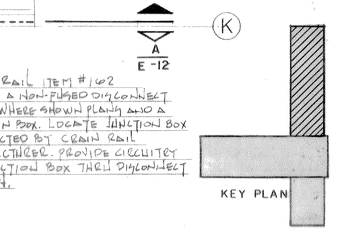


INFLUENT ROOM FLOOD ALARM SYSTEM
NO SCALE



PARTIAL FLOOR PLAN
SCALE 1/8"= 1'-0"

NOTE: CRANE RAIL ITEM #162 PROVIDE A NON-FUSED DISCONNECT SWITCH WHERE SHOWN PLANS AND A JUNCTION BOX. LOCATE JUNCTION BOX AS DIRECTED BY CRANE RAIL MANUFACTURER. PROVIDE CIRCUITRY TO JUNCTION BOX THRU DISCONNECT SWITCH.



NOTES (THIS DRAWING ONLY)

1. MOUNT DUPLEX CONVENIENCE OUTLET 48" A.F. TO BOTTOM OF BOX.
2. MOUNT SINGLE OUTLET 48" A.F. TO BOTTOM OF BOX.
3. MOUNT DUPLEX CONVENIENCE OUTLET 56" A.F. TO BOTTOM OF COVER PLATE. REFER TO DRAWING A-23 FOR EXACT LOCATION.
4. MOUNT DUPLEX CONVENIENCE OUTLET 48" A.F. TO BOTTOM OF COVER PLATE.
5. SURFACE METAL RACEWAY 4 3/4" X 3 9/16" MOUNT ON WALL 48" A.F. TO BOTTOM OF RACEWAY. PROVIDE DUPLEX CONVENIENCE OUTLETS 48" ON CENTERS.
6. WALL MOUNT TELEPHONE OUTLET 60" A.F. TO BOTTOM OF BOX.
7. ROOM A-144 AND 153 SHALL BE CONSIDERED CLASS I DIVISION II HAZARDOUS AREAS AND ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 511.
8. DUPLEX CONVENIENCE OUTLET MOUNTED IN ELECTRIC BASEBOARD HEATER ENCLOSURE. CONVENIENCE OUTLET BY CONTRACTOR #2, BASEBOARD HEATER ENCLOSURE BY CONTRACTOR #3.
9. CONNECT TO GFCI TYPE CIRCUIT BREAKER IN PANEL.
10. TRANSFORMER LG MOUNT 10'-0" A.F. TO BOTTOM SUSPEND FROM STRUCTURE PROVIDE PRIMARY DISCONNECT SWITCH LOCATE AS DIRECTED IN ROOM A-142.
11. TO LIGHT FIXTURE IN KITCHENETTE UNIT.
12. TO TYPE "A" LIGHTING FIXTURE SHOWN IN ROOMS A-154 AND A-155 ON DRAWING E-6.
13. DUPLEX CONVENIENCE OUTLET MOUNTED IN SURFACE METAL RACEWAY. REFER TO SURFACE RACEWAY INSTALLATION THIS DRAWING.
14. BRANCH CIRCUITRY SERVING ELECTRIC FIN RADIATION SHALL BE RUN IN SURFACE METAL RACEWAY AS SHOWN. REFER TO SURFACE RACEWAY INSTALLATION THIS DRAWING.
15. SURFACE METAL RACEWAY REFER TO INSTALLATION DETAIL THIS DRAWING.
16. TRANSFORMER LGE MOUNT 10'-0" A.F. TO BOTTOM: SUSPEND FROM STRUCTURE PROVIDE PRIMARY DISCONNECT SWITCH LOCATE AS DIRECTED IN ROOM A-142.

Rm. No.	Rm. Name
A-118	OFFICE
A-119	VESTIBULE
A-120	OFFICE
A-121	CORRIDOR
A-122	MECH. EQUIP.
A-124	MEN'S
A-125	JANITOR
A-126	WOMEN'S
A-127	HALL
A-128	STORAGE
A-138	VESTIBULE
A-139	LUNCH RM.
A-140	CORRIDOR
A-141	INVENT FILES & MAIN. FOREMAN
A-142	STORAGE
A-143	ELEC. SHOP
A-144	GARAGE & SHOP AREA
A-146	LOCKER ROOM
A-147	SHOWER
A-148	TOILET
A-149	LOCKER ROOM
A-150	SHOWER
A-151	TOILET
A-152	LUNCH ROOM
A-153	GARAGE & WORK AREA
A-154	STORAGE
A-155	STORAGE

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

1/8" = 1'0" 8 4 0 8 16

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

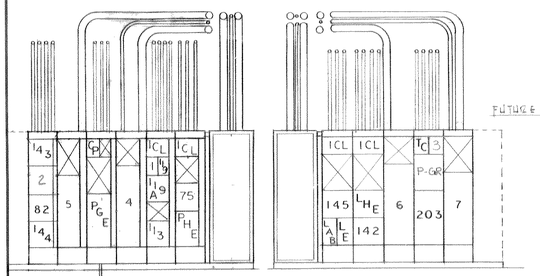
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/85
	JRD	4/4/85	RAK			
2	FOR CONSTRUCTION				SCB	8/20/76
	JOB	3/24/76	JRC	JRC		
1	FOR APPROVALS				SCB	3/31/76
	JRD	3/31/76	JRC	TBA		

PROJECT SUPERVISOR: J. Lawson
APPROVED: S.C. Bushnell

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
DETAILS

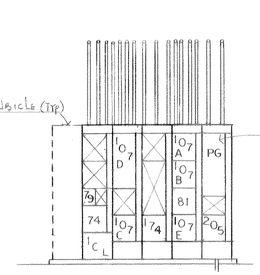
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 12

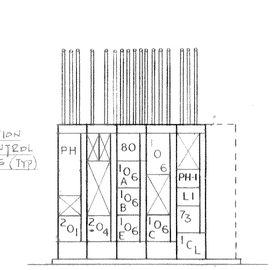


MOTOR CONTROL CENTER III

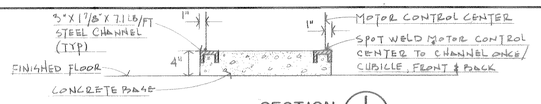
MOTOR CONTROL CENTER IV



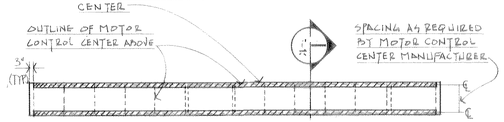
MOTOR CONTROL CENTER II



MOTOR CONTROL CENTER I



SECTION 1 / E-13



TYPICAL MOTOR CONTROL CENTER LEVELING STEEL PLAN

NOTE:
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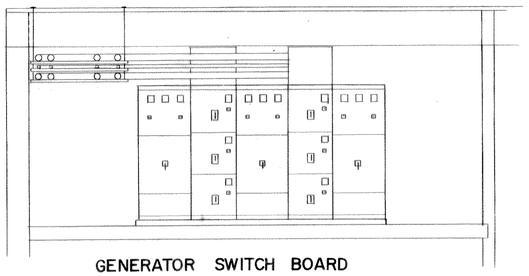
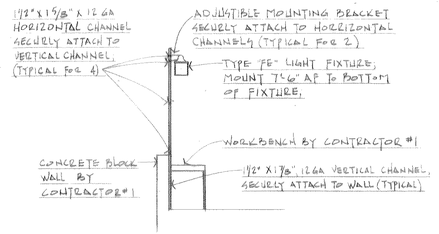
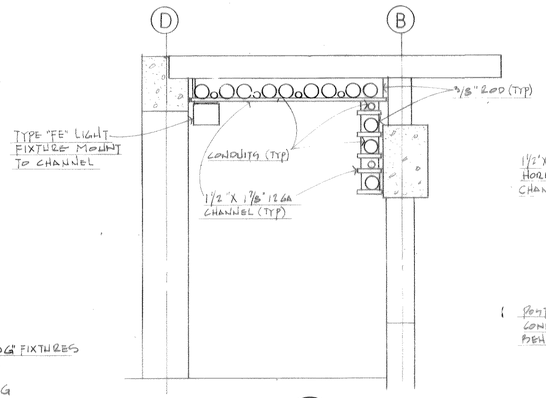


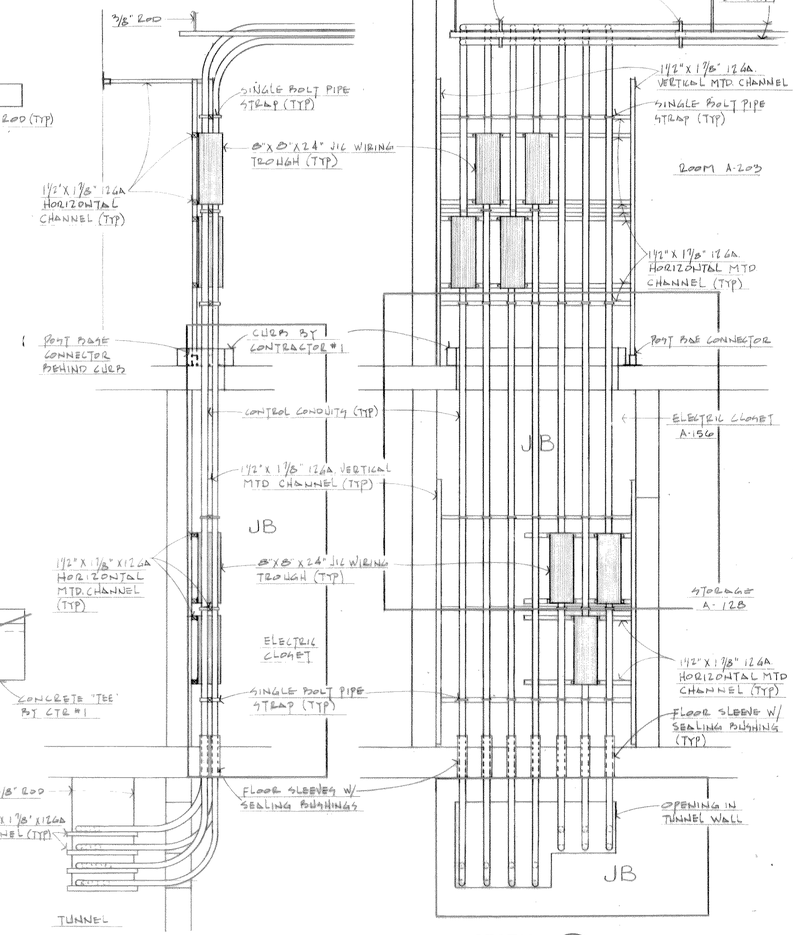
GENERATOR SWITCH BOARD



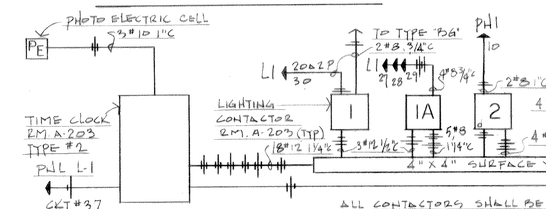
WORK BENCH LIGHT FIXTURE MOUNTING DETAIL



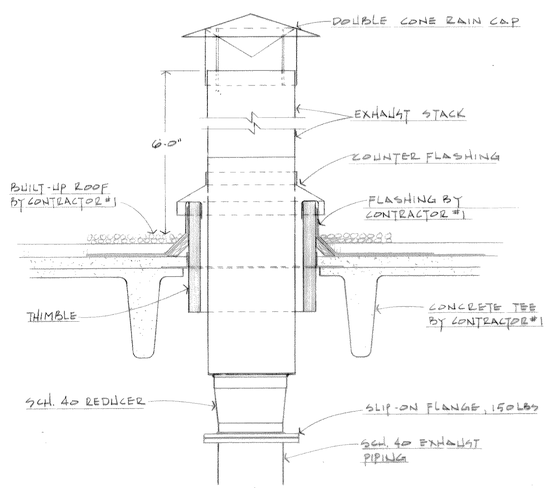
SECTION 2 / E-13



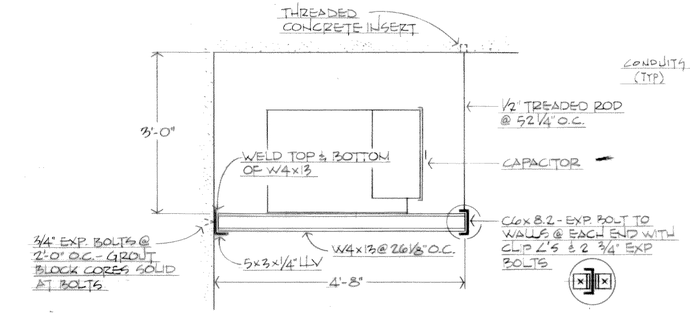
SECTION 3 / E-13



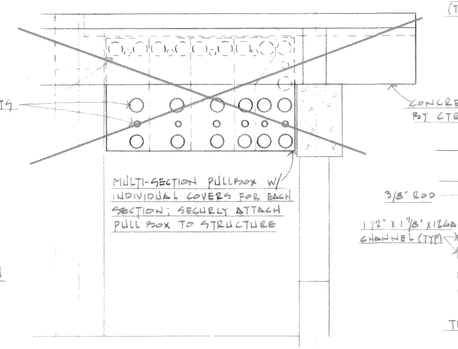
CONTROL BUILDING EXTERIOR LIGHTING CONTROL DIAGRAM
- DRAWING ATTACHED



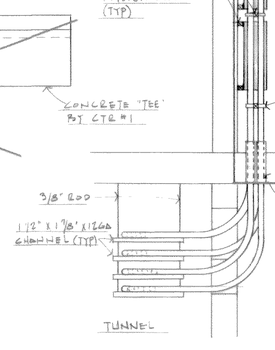
GENERATOR EXHAUST ROOF OPENING DETAIL



CAPACITOR SUPPORT DETAIL



SECTION 3 / E-13



SECTION 4 / E-13

ADDENDUM ITEM NO. 159: CONTROL BUILDING EXTERIOR LIGHTING CONTROL DIAGRAM - ADD: ONE LIGHTING CONTACTOR IN ROOM A-203 FOR CONTROL OF SIGN LIGHTS. PROVIDE 2#8-3/4"C FROM NEW LIGHTING CONTACTOR TO PANEL PH-1 CIRCUIT #12. PROVIDE 2#8-3/4"C FROM NEW CONTACTOR TO CONTACTOR #3. PROVIDE 3#12-1 1/2"C FROM NEW CONTACTOR TO TIME CLOCK IN ROOM A-203. PROVIDE 4#12 FROM NEW CONTACTOR TO MAIN CONTROL PANEL IN ROOM A-202.
MOTOR CONTROL CENTER I -
DELETE: #2 DESIGNATION (BAR SCREEN)
MOTOR CONTROL CENTER II -
DELETE: #3 DESIGNATION (BAR SCREEN)
MOTOR CONTROL CENTER III -
ADD: #2 DESIGNATION (BAR SCREEN)
MOTOR CONTROL CENTER IV -
ADD: #3 DESIGNATION (BAR SCREEN)
ADD: "P-GR" DESIGNATION (GENERATOR PANELBOARD)

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NO SCALE

MILLER - SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

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1	FOR APPROVALS JOB 3/31/76	JRC	TBA		S.G.B	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bugbee

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 13

INTERCOMMUNICATION - TELEPHONE RISER DIAGRAM LEGEND

- ▼ TELEPHONE OUTLET LOCATION W/ TELEPHONE
- EX EXPLOSION PROOF
- W WALL MOUNTED 54" AF
- R RESTRICTED FUNCTIONS
- WP WEATHER PROOF ENCLOSURE REQUIRED
- * MOUNT IN ENCLOSURE PROVIDED BY CONTRACTOR #1
- A ADMINISTRATIVE FUNCTIONS
- (S) HORN TYPE SPEAKER - SINGLE
- (S)(S) HORN TYPE SPEAKER - DUAL
- C (S) CEILING SPEAKER
- W (S) WALL SPEAKER

GENERAL NOTE:

-VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES, SHOWN THIS DRAWING, WITH ENGINEER. INSTALL ALL LIGHTING FIXTURES SHOWN THIS DRAWING AFTER PROCESS PIPING IS INSTALLED.
- ALL WIRE SHOWN THIS DWG SHALL BE #10 UNLESS OTHERWISE NOTED.

NOTES (THIS DRAWING ONLY)

1. MOUNT LIGHT FIXTURE 12'-0" AFF TO BOTTOM OF FIXTURE.
2. MOUNT LIGHT FIXTURE 10'-0" AFF TO BOTTOM OF FIXTURE.
3. MOUNT LIGHT FIXTURE 8'-0" AFF TO BOTTOM OF FIXTURE.
4. MOUNT LIGHT FIXTURE TO UNDERSIDE OF DECK.
5. MOUNT LIGHT FIXTURE 7'-6" AFF TO BOTTOM OF FIXTURE.
6. MOUNT TO UNDERSIDE OF STAIR LANDING.
7. CONTINUED ON DRAWING E-4.

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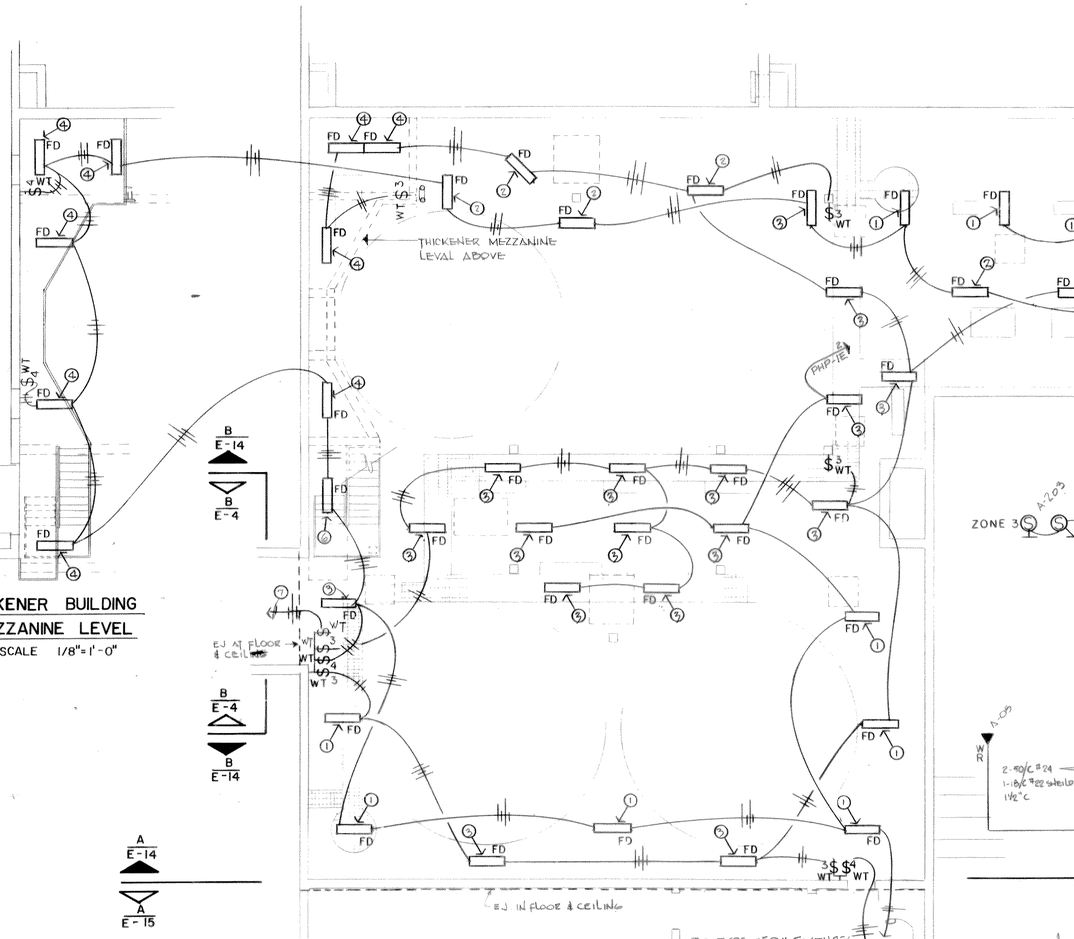


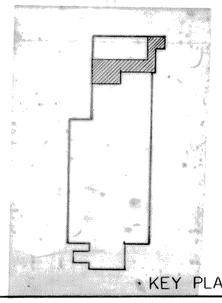
THICKENER BUILDING
MEZZANINE LEVEL
SCALE 1/8"=1'-0"

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8"=1'-0"

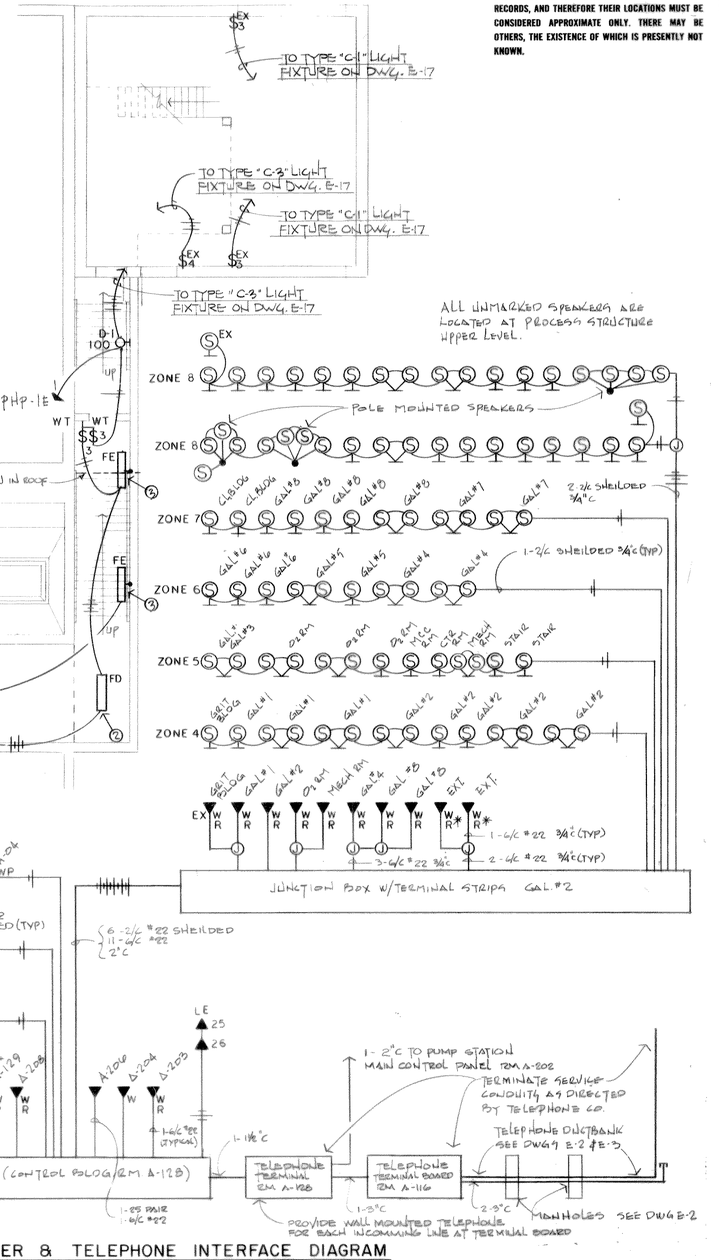
ADDENDUM ITEM NO. 160: PARTIAL FLOOR PLAN LOWER LEVEL- STAIRS BETWEEN GAL. #1 AND GRID BLDG. LOWER LEVEL- CHANGE TYPE "D-2" LIGHTING FIXTURE TO TYPE "D-1".

INTERCOMMUNICATION - TELEPHONE RISER AND TELEPHONE INTERFACE DIAGRAM ZONE #8 - ADD ONE SPEAKER TO POLE SHOWN HAVING THREE SPEAKERS.



KEY PLAN

1/8" = 1'-0" (8 4 0 8 16)



INTERCOMMUNICATION - TELEPHONE RISER & TELEPHONE INTERFACE DIAGRAM

NO SCALE

REFER TO INTERCOMMUNICATION - TELEPHONE RISER DIAGRAM LEGEND THIS DRAWING.

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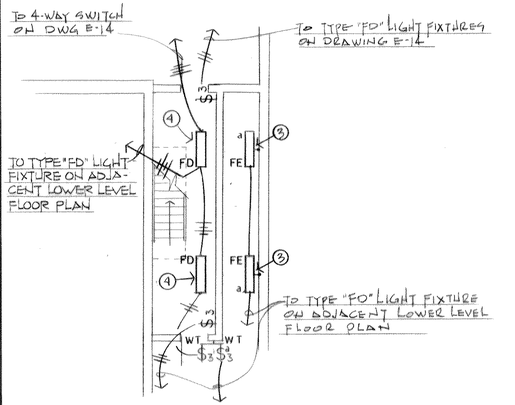
PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bilton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - SECTION #1 LIGHTING

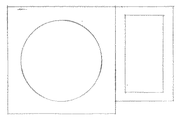
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

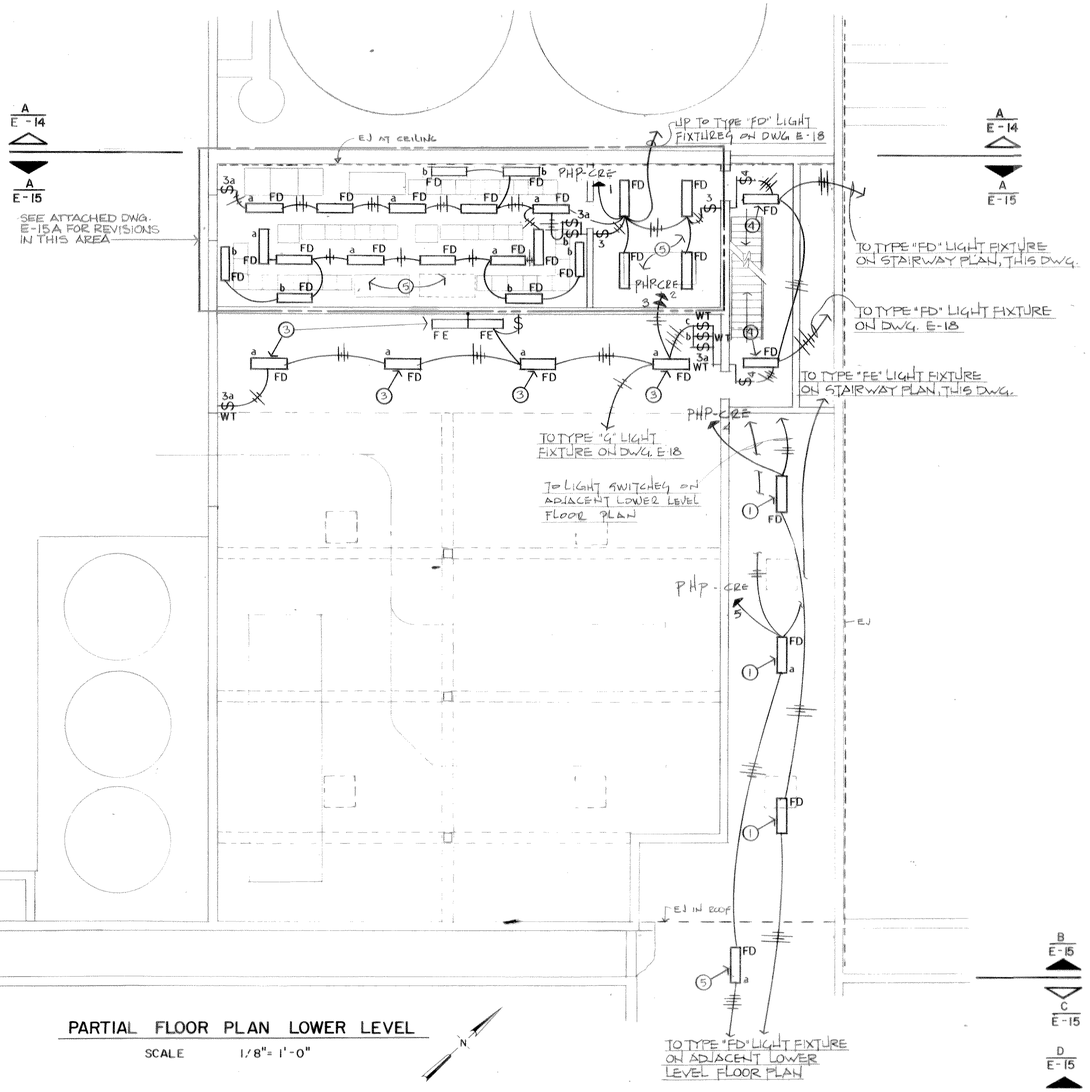
JOB NO. 577 | CONTRACT NO. 2 | SHEET E 14



STAIRWAY BUILDING PLAN

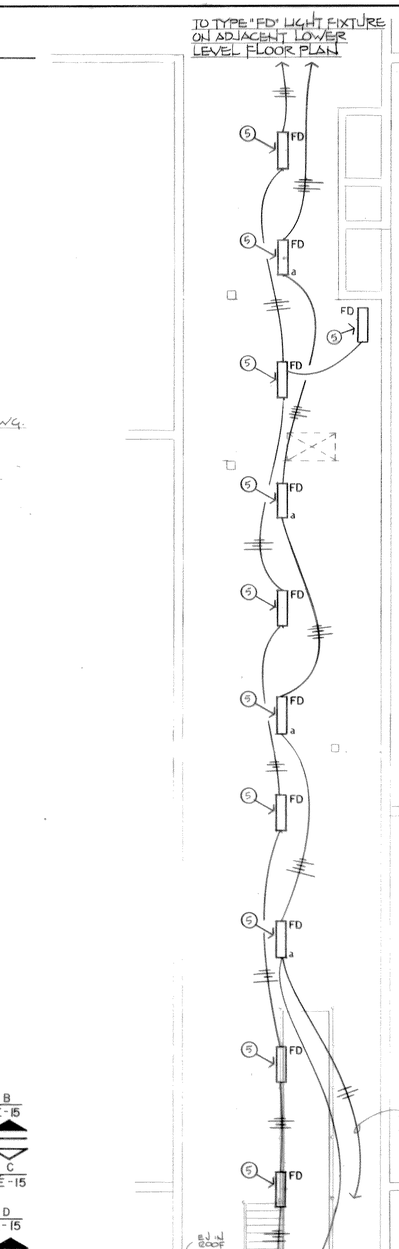
SCALE 1/8"= 1'-0" AT ELEV. 365.5

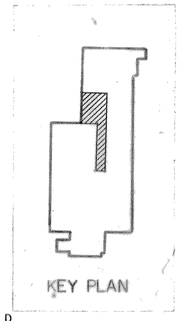




PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8"= 1'-0"





PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8"= 1'-0"

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NOTES (THIS DRAWING ONLY)

1. MOUNT LIGHT FIXTURE 12'-0" AFF TO BOTTOM OF FIXTURE.
2. MOUNT LIGHT FIXTURE 10'-0" AFF TO BOTTOM OF FIXTURE.
3. MOUNT LIGHT FIXTURE 8'-0" AFF TO BOTTOM OF FIXTURE.
4. MOUNT LIGHT FIXTURE TO UNDERSIDE OF DECK.
5. MOUNT ALL LIGHT FIXTURES THIS ROOM 7'-6" AFF.

GENERAL NOTE:

- VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES, SHOWN THIS DRAWING, WITH ENGINEER. INSTALL ALL LIGHTING FIXTURES SHOWN THIS DRAWING AFTER PROCESS PIPING IS INSTALLED.
- ALL WIRE SHOWN THIS DWG SHALL BE #10 UNLESS OTHERWISE NOTED

1/8" = 1'0" 8 4 0 8 16

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consulting engineers
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SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
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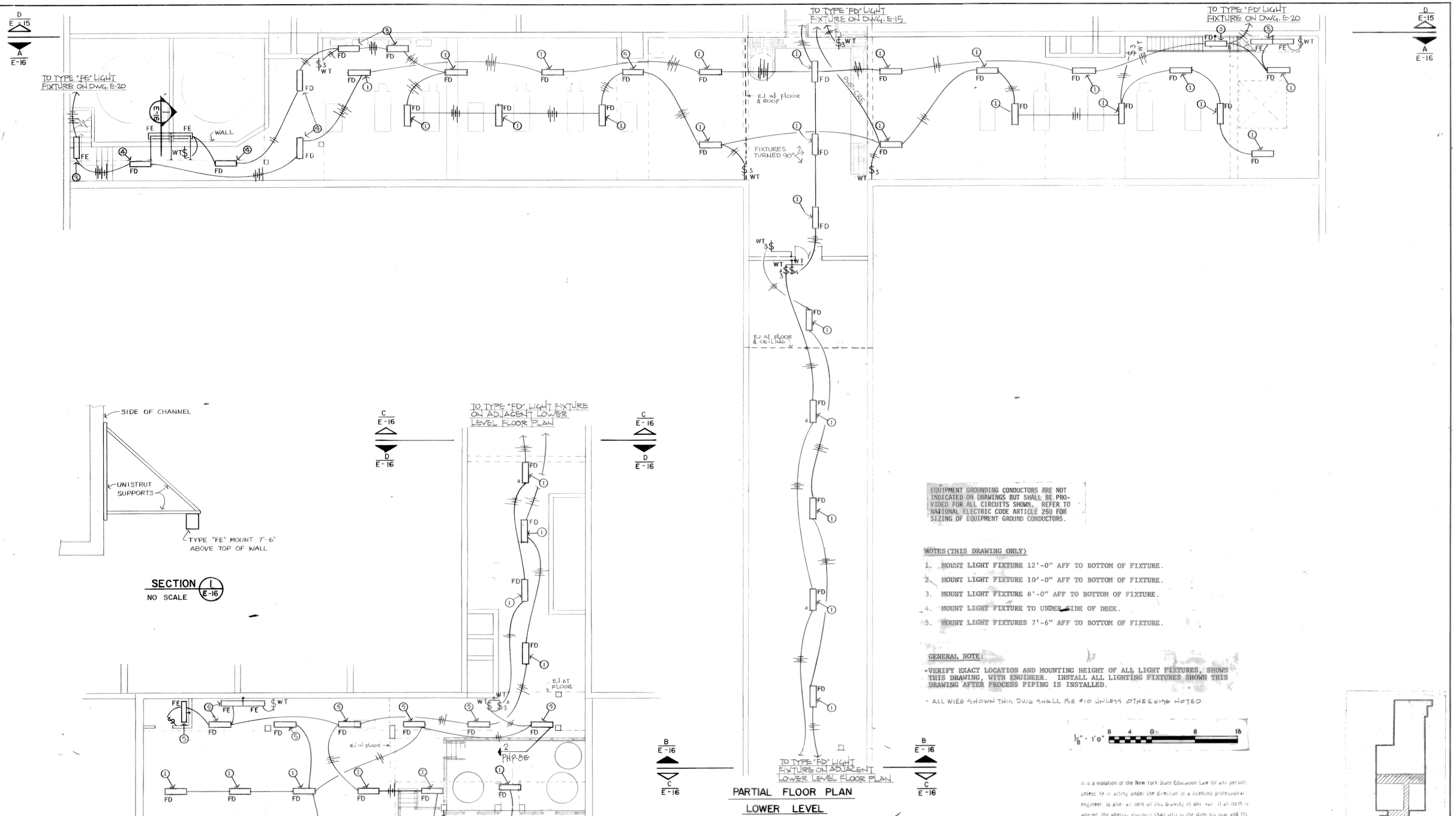
	RECORD					
2	JRD	4/4/83	RAK		JRC	4/4/83
	FOR CONSTRUCTION					
1	JOB	2/24/78	JRC	JRC	SCB	2/24/78
	FOR APPROVALS					
	JOB	2/21/78	JRC	TBA	SCB	3/31/78

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S. G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - SECTION #2 AND #3 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 15



EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

NOTES (THIS DRAWING ONLY)

1. MOUNT LIGHT FIXTURE 12'-0" AFF TO BOTTOM OF FIXTURE.
2. MOUNT LIGHT FIXTURE 10'-0" AFF TO BOTTOM OF FIXTURE.
3. MOUNT LIGHT FIXTURE 8'-0" AFF TO BOTTOM OF FIXTURE.
4. MOUNT LIGHT FIXTURE TO UNDER SIDE OF DECK.
5. MOUNT LIGHT FIXTURES 7'-6" AFF TO BOTTOM OF FIXTURE.

GENERAL NOTE:

- VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES, SHOWN THIS DRAWING, WITH ENGINEER. INSTALL ALL LIGHTING FIXTURES SHOWN THIS DRAWING AFTER PROCESS PIPING IS INSTALLED.

- ALL WIRE SHOWN THIA DWG SHALL BE #10 UNLESS OTHERWISE NOTED

1/8" - 1'0" (8 4 0 8 16)

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

KEY PLAN

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MILLER - SIZING, P.C. consulting engineers
499 SO. WARREN STREET SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD URD	4/4/88	RAK		URC	4/4/88
2	FOR CONSTRUCTION JOB	2/24/76	JRC	JRC	S.C.B	2/24/76
1	FOR APPROVALS JOB	3/31/76	JRC	TBA	S.C.B	3/31/76

PROJECT SUPERVISOR J. R. Cranson APPROVED S. C. Bristow

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - SECTION #4 AND #5 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 16

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NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

BELOW LANDING

WALL MOUNT AT EL. 384 VERIFY W/ARCHITECT. TYPICAL FOR 3 SHOWN

REFER TO DETAIL ON DRAWING E-55 FOR SLUDGE THICKENER WALKWAY LIGHTING

ATTACH CONDUIT TO WALKWAY SUPPORT SYSTEM AS DIRECTED BY ENGINEER

TO TYPE "E" LIGHT FIXTURE ON DWG. E-18

A E-17 / A E-18

E.J. AT ELEC. RM. CEILING

CKT # 18 TO PANEL PHP-CR VIA CONTACTOR #7

CKT # 29, 30, 31, 32 & 33 TO PANEL PLP-CR2 VIA CONTACTOR #8

E.J. AT ROOF

E.J. AT FLOOR & ROOF

TO PANEL "PLP-CR2" VIA CONTACTOR #8

PHP-CR VIA CONTACTOR #7

RUN CONDUIT EXPOSED ALONG BEAMS, VERIFY EXACT LOCATION WITH ENGINEER

TO 3-WAY LIGHT SWITCH ON DWG. E-14

TO 4-WAY LIGHT SWITCH ON DWG. E-14

ALL CONDUIT WITHIN GRIT BUILDING SHALL BE EXPOSED

WALL MOUNT AT EL. 402 VERIFY W/ ARCHITECT. TYPICAL FOR 2 SHOWN. REFER TO MOUNTING DETAIL ON DRAWING E-55

TO TYPE "D2" LIGHT FIXTURE ON DWG. E-14

RUN CONDUIT EXPOSED ON UNDERSIDE OF CANOPY

MOUNT TO CONCRETE BEAM AT EL. 400; VERIFY W/ ARCHITECT. TYPICAL FOR 6 TYPE "BF" AND 2 TYPE "BK" FIXTURES SHOWN BELOW CANOPY

NOTE:
- REFER TO DRAWING E-55 FOR LIGHTING FIXTURE MOUNTING DETAILS.
- ALL WIRE SHOWN THIS DRAWING SHALL BE #10 UNLESS OTHERWISE NOTED.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.
- ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

KEY PLAN

PARTIAL FLOOR PLAN LOWER LEVEL
SCALE 1/8"= 1'-0"

SEE SHOP DRAWING E-35 FOR CONDUIT ROUTING

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

1/8" = 1'0" 8 4 0 8 16

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MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
	JRD	4/4/83	RAK			
2	FOR CONSTRUCTION				SCB	2/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				SCB	3/31/76
	JOB	3/31/76	TBA	JRC		

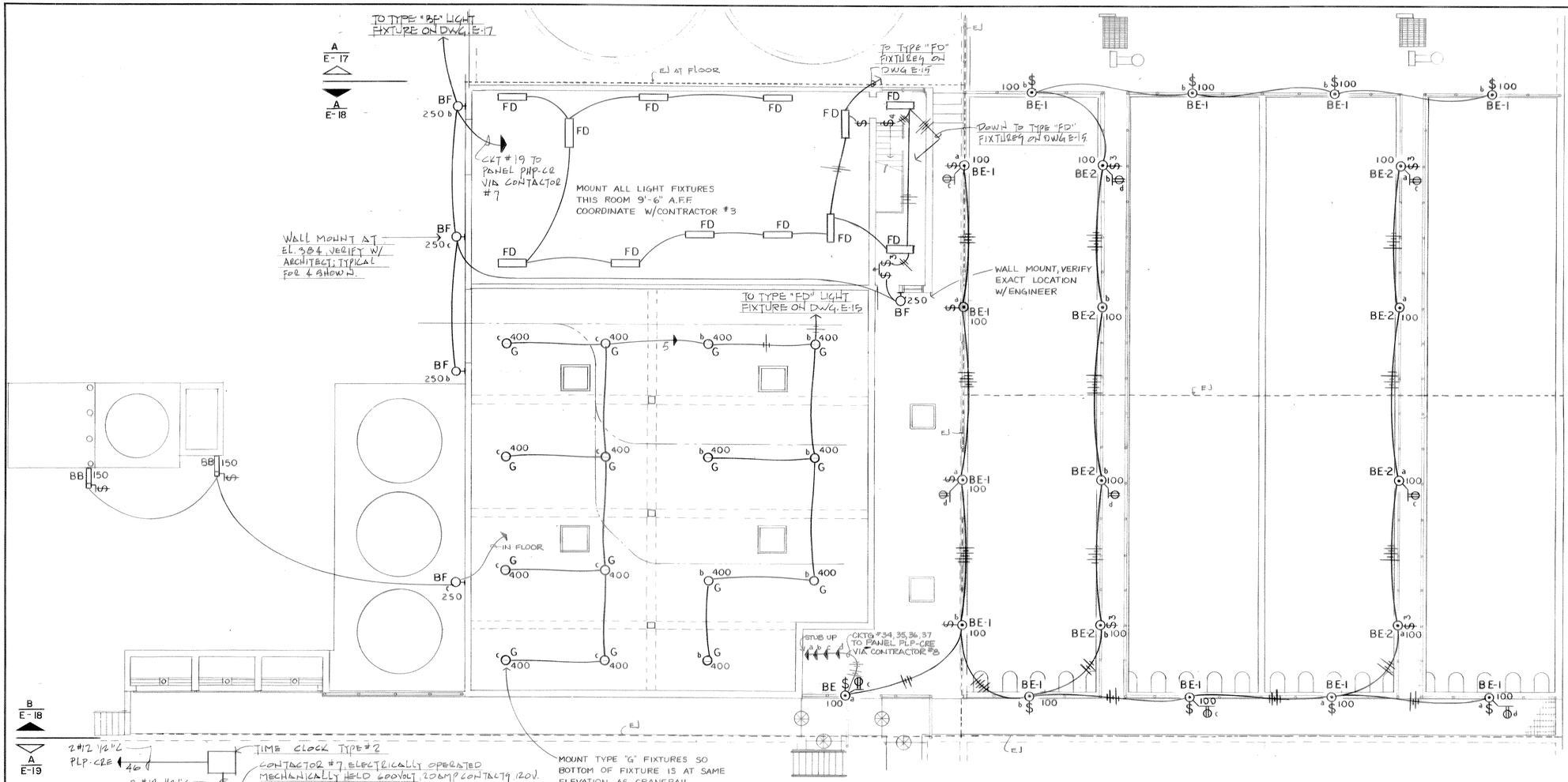
PROJECT SUPERVISOR Joel Stevens — APPROVED S.C. Purdon

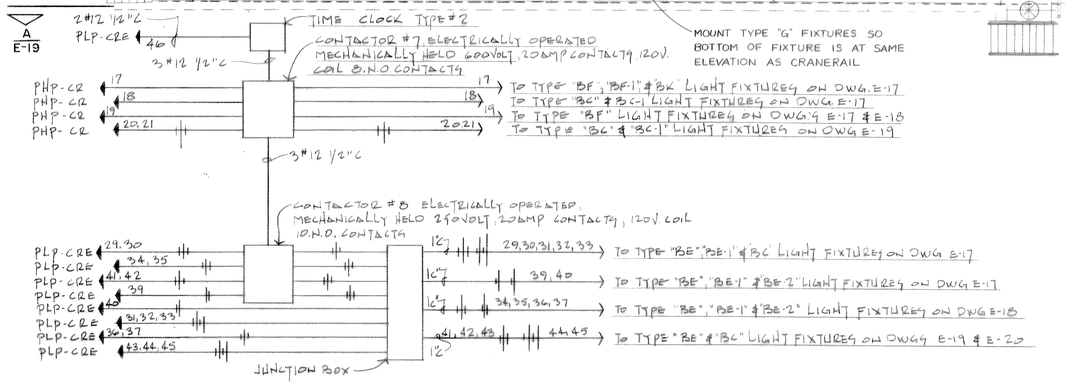
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ROOF PLAN - SECTION #1 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 17

196





PARTIAL EXTERIOR LIGHTING CONTROL DIAGRAM, PROCESS STRUCTURE

NO SCALE

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"=1'-0"

PC-117

2#12-1 1/2"C CONTROL WIRING FROM THE LIGHTING CONTROL CENTER CONTROLLING CONTACTORS NO. 7 & NO. 8 IN THE ELECTRICAL ROOM OF THE PROCESS STRUCTURE TO THE EXTERIOR NORTH WALL OF THE MECHANICAL ROOM DIRECTLY ABOVE THE ELECTRICAL ROOM AND PROVIDING A 120 VOLT ON-OFF ADJUSTABLE PHOTO-CELL WALL MOUNTED.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTE:
- ALL WIRE SHOWN THIS DWG SHALL BE #10 UNLESS OTHERWISE NOTED.
- REFER TO DRAWING E-55 FOR LIGHTING FIXTURE MOUNTING DETAILS
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.
- ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

KEY PLAN

1/8" = 1'0" 8 4 0 8 16

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RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MILLER - SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD	JRD	4/18/83	RAK		JRC	4/18/83
2	FOR CONSTRUCTION	JOB	2/24/78	JRC	JRC	S.G.B	3/31/78
	FOR APPROVALS	JOB	8/31/77	RAK	RAK	S.G.B	9/1/77

PROJECT SUPERVISOR: J. R. Stevenson
APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ROOF PLAN - SECTION #2 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 18

197

CKTS #41, 42, 43, 44, 45 TO PANEL "PLP-CRE" VIA CONTACTOR #8

CKTS #20, 21 TO PANEL PHP-CR VIA CONTACTOR #7

B E-18 / A E-19

B E-19 / A E-20

EJ

EJ IN ROOF

BE

BC

BC-1

BC-2

7'x7' SLAB OPENING W/ 2'-6" CURB (TYP. FOR 15)

TO TYPE "BC" LIGHT FIXTURE ON DWG. E-20

TO TYPE "BE" LIGHT FIXTURE ON DWG. E-20

KEY PLAN

NOTE: REFER TO DRAWING E-55 FOR LIGHT FIXTURE MOUNTING DETAIL.

- ALL WIRE SHOWN THIS DWG. SHALL BE #10 UNLESS OTHERWISE NOTED

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8" = 1'-0"

SEE ATTACHED SHOP DRAWING E-45 FOR CONDUIT ROUTING

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

1/8" = 1'0" 8 4 0 8 16

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/14/83	RAK		JRC	4/14/83
2	FOR CONSTRUCTION JOB	3/14/78	JRC	JRC	S.G.B	4/24/78
1	FOR APPROVALS JOB	3/31/76	TDA	JRC	S.G.B	3/31/76

PROJECT SUPERVISOR: Joel Stevens — APPROVED: S. G. Brigham

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ROOF PLAN - SECTION #3 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 19

B E-19 / A E-20

WALL MOUNT AT EL. 382.JERIFY W/ARCHITECT REFER TO MOUNTING DETAIL ON DWG E-55

TO TYPE "FE" LIGHT FIXTURE ON DWG. E-16

TO TYPE "BC" LIGHT FIXTURE ON DWG. E-19

TO TYPE "BE" LIGHT FIXTURE ON DWG. E-19

CONIC. STRUT CROSSES CHANNEL

E.J IN ROOF

CONDUIT DOWN TO GAL. BELOW, THEN STUBS UP TO "BE" ON WALL.

TO TYPE "FD" LIGHT FIXTURE ON DWG. E-16

MOUNT FIXTURES AS HIGH AS POSSIBLE

CONDUIT CROSSES CONCRETE STRUT

13'-6" (TYP.)

3'-6" TYP.

WALL MOUNT AT EL. 390'-10" VERIFY W/ARCHITECT. REFER TO DRAWING E-55 FOR MOUNTING DETAIL

B E-19 / A E-20

TO TYPE "BE-2" LIGHT FIXTURE ON DWG. E-21

TO TYPE "BE-1" LIGHT FIXTURE ON DWG. E-21

TO TYPE "BE" LIGHT FIXTURE ON DWG. E-21

B E-20 / A E-21

NOTE:
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NOTE:
- ALL WIRE SHOW ON THIS DWG. SHALL BE #10 UNLESS OTHERWISE NOTED.
- REFER TO DWG E-55 FOR LIGHTING FIXTURE MOUNTING DETAILS

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

KEY PLAN

B E-20 / A E-21

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"= 1'-0"

1/8" = 1'0" 8 4 0 8 16

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

Unauthorized alteration or addition to these plans is a violation of section 7209 subdivision 2 of the New York State Education Law. A licensed professional engineer who alters these plans is required to affix his seal to the drawing and specifically describe the alteration. In addition to signing and sealing the document, the engineer must indicate the nature of such alteration, and a specific description of the alteration.

R. J. Miller

MILLER - SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD	JRD	4/4/83	RAK		JRC	4/4/83
2	FOR CONSTRUCTION	JOB	2/24/78	JRC	JRC	SCB	2/28/78
1	FOR APPROVALS	JOB	3/31/76	TBA	JEC	SCB	3/31/76

PROJECT SUPERVISOR Joel Freeman
APPROVED S.C. Bradley

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ROOF PLAN - SECTION #4 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 20

B E-20 / A E-21

TO TYPE "BE-2" LIGHT FIXTURE ON DWG. E-20

TO TYPE "BE-2" LIGHT FIXTURE ON DWG. E-20

TO TYPE "BE-1" LIGHT FIXTURE ON DWG. E-20

TO TYPE "BE" LIGHT FIXTURE ON DWG. E-20

TO TYPE "BE-2" LIGHT FIXTURE ON DWG. E-20

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

B E-20 / A E-21

CKT# 27,28,29,30 TO PANEL 'PLP-BE' VIA CONTACTOR #10

CKT# 23,24,25,26 TO PANEL 'PLP-BE' VIA CONTACTOR #10

CKT# 31,32,33,34 TO PANEL 'PLP-BE' VIA CONTACTOR #10

HOMERUNS RUN IN WALL TO GAL #7 ROOF DECK THEN DOWN TO RACKS

CKT# 11 TO PANEL PHP-BE VIA CONTACTOR #9

WALL MOUNT AT EL. 394, VERIFY W/ARCHITECT TYPICAL WITH 4 SHOWN THIS BLDG.

CONTROL RELAYS FOR CHLORINE BLDG LIGHTS & VENTILATION

THIS CIRCUIT COMPLETED VIA RACKS IN GAL'S BELOW

CONDUIT DROPS 3'-5"-6" TO GAL 8 BELOW.

RUN CONDUIT IN SLAB TO CL2 BLDG. DROP DOWN WALL TO UNDERSIDE OF SLAB.

CONDUIT RISES INTO SLAB, CROSSES E J TO "BE" FIXTURE

DOWN TO TYPE "FD" FIXTURE ON DWG E-16

TO TYPE "FB" LIGHT FIXTURE ON DWG E-16

PARTIAL FLOOR PLAN UPPER LEVEL
SCALE 1/8"= 1'-0"

2#12 1/2"C — TIME CLOCK TYPE #2 — PLP-BE

3#12 1/2"C — CONTACTOR #9 ELECTRICALLY OPERATED MECHANICALLY HELD, 600V 20AMP CONTACTS 120V COIL 4 N.O. CONTACTS

PLP-B 11 → TO TYPE "BC-1" & "BF" LIGHT FIXTURES ON DWG E-21

3#12 1/2"C — CONTACTOR #10 ELECTRICALLY OPERATED MECHANICALLY HELD, 250V 20AMP CONTACTS 120V COIL 8 N.O. CONTACTS

PLP-BE 23,24 → 23,24,25,26 → TO TYPE "BE-1" & "BE-2" LIGHT FIXTURES ON DWG E-20 & E-21
PLP-BE 31,32 → 27,28,29,30 → TO TYPE "BE", "BE-1", "BE-2" & BC-1 LIGHT FIXTURES ON DWG E-20 & E-21
PLP-BE 27,28 → 31,32,33,34 → TO TYPE "BE", "BE-1" & "BE-2" LIGHT FIXTURES ON DWG E-20 & E-21
PLP-BE 25,26
PLP-BE 29,30
PLP-BE 33,34

JUNCTION BOX

PARTIAL EXTERIOR LIGHTING CONTROL DIAGRAM, PROCESS STRUCTURE
NO SCALE

120V CONTROL

ON PB1 — PB1 OFF
ON PB2 — PB2 OFF
DS — DS — CR — (CR)
CR

TO EXHAUST FAN STARTER CONTROL CIRCUIT

277V LIGHTING CIRCUIT — CR — FD FD FD

NOTE: CONTROL RELAYS SHALL BE MOUNTED IN CORROSION RESISTANT ENCLOSURE.

CHLORINATOR ROOM VENTILATION & ILLUMINATION INTERLOCKING CONTROL DIAGRAM
NO SCALE
(CHLORINE STORAGE ROOM SIMILAR EXCEPT EIGHT LIGHT FIXTURES AND TWO EXHAUST FANS)

2#12-1/2"C CONTROL WIRING FROM THE LIGHTING CONTROL CENTER CONTROLLING CONTACTORS NO. 9 & 10 IN GALLERY NO. 8 TO THE EXTERIOR NORTH WALL OF THE ROOM DIRECTLY ABOVE GALLERY NO. 8 & PROVIDING A 120 VOLT ON-OFF ADJUSTABLE PHOTO-CELL WALL MOUNTED.

NOTES:
- ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.
- EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.
- REFER TO DRAWING E-55 FOR LIGHTING FIXTURE MOUNTING DETAILS
- ALL WIRE SHOWN THIS DWG SHALL BE #10 UNLESS OTHERWISE NOTED

KEY PLAN

1/8" = 1'0" (8 4 0 8 16)

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RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MILLER - SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/4/83	RAK		JRC	4/4/83
2	FOR CONSTRUCTION JOB	5/24/78	JRC	JRC	SKB	8/04/78
1	FOR APPROVALS JOB	3/31/76	TDA	JRC	SKB	3/31/76

PROJECT SUPERVISOR: [signature] APPROVED: S.G. Brigdon

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ROOF PLAN - SECTION #5 LIGHTING

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 21

NOTE:
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A E-23 | B E-22

ANALYZER PANEL "H" ABOVE PLATFORM

REFER TO INTERCONNECTION DIAGRAM FOR OXYGEN GENERATOR SYSTEM CONTROL PANEL DWG E-55 To Panel "AU"

TRANSFORMER "AH" WALL MTD. ABOVE PLATFORM

DISCONNECT SWITCH "AH" NON-FUSED MTD ABOVE PLATFORM

DIGESTED SLUDGE PUMP #2

DIGESTED SLUDGE PUMP #1

AUTO OILER PB3 PB1 57 56

PRIMARY SLUDGE PUMP #3 PRIMARY SLUDGE PUMP #2 PRIMARY SLUDGE PUMP #1

53 52 51 SV PB1

PLP-1E 9,10 PLR1E

UH #6 PHP-1-2 ½"C

WT 48" AFF SKYLIGHT ABOVE

275

DUW HTR BELOW BENCH TRANSF "TP1 8'-6" AFF

PHP-1-PHP-1E

54" AFF 10'-0" AFF

POWER RELAY FOR CONTROL OF GRIT BLDG. HTR'S

PE PE SWITCH BY CONTRACT # 3

WASTEWATER SAMPLER REFER TO DIAGRAM ON DWG E-54

STAGGER PULL BOXES

BI E-35 | A E-22

STAGGER CONDUIT SEAL FITTINGS

CONCRETE SILL

CONCRETE ENVELOPE

SECTION NO SCALE 3 E-22

EJ AT WALL, SLAB & ROOF

UP

3 E-22

10'-0" AFF Ⓢ Ⓒ

G1-2 E-22 G1-3 E-22 G1-4 E-22 G1-5 E-22 G1-1 E-22

SECTION NTS ELEV. 376'-4"

STP 3/4" STC 1 1/4" 5&6 P 1" 5&6 P 3/4" Ashm 1 1/2" AH 1" PHP-1,3 3/4" PLP-E 1&2,3 3/4" PLP-E 4,5,6 3/4" PHP-1 1 1/2" PHP-E 1" TELEPHONE 3/4" SPEAKER 3/4" W.W. SMP 3/4" 12P 3/4" 12C 3/4" 11P 3/4" 11C 1" 10P 3/4" 10C 1" 13P 3/4" 13C 3/4" 5&6 C 1" 5&6 P 3/4" 5&6 C 1" 5&6 P 3/4"

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

KEY PLAN

A E-23 | B E-22

253- PLP-1E-2 3/4"
254 PLP-1E 3/4"
PLP-1E 4,5,6 3/4"
PHP-1 4,5 3/4"
PHP-1 6,7,12 3/4"
12P 3/4"
12C 3/4"
11P 3/4"
11C 1"
10P 3/4"
10C 1"
13P 3/4"
13C 3/4"

3/4" I.B.S./I.B.4 W.W. SMP 3/4" TELEPHONE 3/4" SPEAKER 3/4" EL. 376'-4"

SECTION 3/8"= 1'-0" G1-2 E-22

2'-3½"

EL 376.83

PLP 83/84 253 254 PHP PHP

10 11 12p 12c 13p 13c

SECTION 3/8"= 1'-0" 1 E-22

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8" = 1'-0"

N

SECTION NTS G1-4 E-22 G1-5 E-22 G1-3 E-22

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

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GEORGE J. MILLER NO. 34071 LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

STERLING G. BRITTAIN 31810 LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/14/83	RAK			JRC	4/14/83
2	FOR CONSTRUCTION JOB	2/24/78	JRC	JRC		SCB	2/24/78
1	FOR APPROVALS JOB	3/31/76	TBA	JRC		SCB	3/31/76

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Brittain

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - GALLERY #1 POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 22

A E-23 | B E-22

ANALYZER PANEL "H" ABOVE PLATFORM

REFER TO INTERCONNECTION DIAGRAM FOR OXYGEN GENERATOR SYSTEM CONTROL PANEL DWG E-55

TO PANEL "AU"

TRANSFORMER "AH" WALL MTD ABOVE PLATFORM

DISCONNECT SWITCH "AH" NON-FUSED MTD ABOVE PLATFORM

WT

TO PLRIE

DIGESTED SLUDGE PUMP #2

DIGESTED SLUDGE PUMP #1

PB3

PB1

M 57

M 56

223 2

PANEL PHP-1

PANEL PHP-1E

TRANSFORMER "TP1" WALL MTD 8'-0" AFF

PANEL P-P1E"

PLRIE

48" AFF

PHP-1

M 275

296 296

DHW HTR BELOW BENCH

54" AFF

S 10'-0" AF

POWER RELAY FOR CONTROL OF GRIT BLDG. HTR'S

PE SWITCH BY CONTRACT #3

WASTEWATER SAMPLER REFER TO DIAGRAM ON DWG E-54

UH #6

PBI

M 53

M 52

M 51

SV

SKYLIGHT ABOVE

PRIMARY SLUDGE PUMP #3

PRIMARY SLUDGE PUMP #2

PRIMARY SLUDGE PUMP #1

STAGGER PULL BOXES

BI E-35 | A E-22

STAGGER CONDUIT SEAL FITTINGS

CONCRETE SILL

CONCRETE ENVELOPE

SECTION 3 E-22
NO SCALE

NOTE:
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EJ AT WALL SEAL & SEAL

UP

3 E-22

10'-0" AFF S C

A E-23 | B E-22

PHP-1E
13c
13p
12c
12p
11
10
51c
51p
52p
52c
53c
53p

PHP-1
AH
56p
56c
57c
57p
EL. 376.5

SECTION 2 E-22
3/8"= 1'-0"

10
11
12p
12c
13p
13c

EL 376.5

PLP
53/84
253
254
PHP
PHP

SECTION 1 E-22
3/8"= 1'-0"

PARTIAL FLOOR PLAN
LOWER LEVEL
SCALE 3/8" = 1'-0"

SEE DRAWING E-22 FOR CONDUIT ROUTING.

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REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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KEY PLAN

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MILLER · SIZING, P.C.
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499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	JRD	4/4/83	RAK		JRC	4/4/83
	RECORD					
3	JRD	4/4/83	RAK		JLS	3/9/80
	PC-84 BELT PRESS WIRING					
2	RAK	2/80	JRC	RAK	S.G.B	2/29/78
	FOR CONSTRUCTION					
1	JOB	2/9/78	JRC	JRC	S.G.B	3/31/78
	FOR APPROVALS					
	JOB	3/3/78	TBA	JRC	S.G.B	3/31/78

PROJECT SUPERVISOR: Joel Swan
APPROVED: S. G. Bruton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - GALLERY #1 POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 22 BP

CONTROL PANEL CP2 VERIFY LOCATION WITH ENGINEER

WT

10'0" AFF

CONDUIT TO SCUM PUMP CONTROLS (THIS DRAWING)

EJ IN DIGESTER ROOF BEARING ONLY

130 M

POLYMER FEED SYSTEM #2 CONTROL PANEL

UH#1 M ℄202 PLP-1

202 ℄

10'0" AFF S WT 48" AFF PLP-1E 12

INDICATOR LIGHTS AT MAIN CONTROL PANEL IN CONTROL BUILDING

POLYMER FEED PUMP

MOT OFF R

MOT RUN G

AL

TO MCC V

POLYMER FEED SYSTEM #2 CONTROL PANEL

381.00 WT PLP-1E 13

SYSTEM ALARM POINTS AT MAIN CONTROL PANEL IN CONTROL BLDG.

POLYMER FEED SYSTEM #2 DIAGRAM

TO MCP CRA

TAC IND TI TAC IND TI TO TAC GEN AT DRIVE

TO MCC IV

DS MS

FAST PB1 FAST PB2 SLOW SLOW PB2

PB2 PB1 PB1 PB2

TC G FAST SPEED CNT M SLOW G CRA

OL STOP HAND AUTO STOP PB2 OFF PB3 START PB2 START

RESET

MS MS

TC JOG

TO FILTER C.P. CRA

MS MS

MOT CALL W ETM MOT RUN G MOT RUN G AUTO OILER MOT OFF R

VOID

SEE SQUARE D M.C.C. RECORD DRAWINGS ~~ELEMENTARY DIAGRAM #51, MCC's V & VI~~

48" AFF WT S S 12'0" AFF PLP-1E

SKYLIGHT ABOVE

ARRANGE CONDUITS AND PULLBOXES TO AVOID OBSTRUCTING SKYLIGHT

ARRANGE CONDUITS AND PULLBOXES TO AVOID OBSTRUCTING SKYLIGHT

PLP-1E 15

SKYLIGHT ABOVE

48" AFF WT

GALLERY #2 SUMP PUMP #1 M 147

GALLERY #2 SUMP PUMP #2 M 146

CP J 14 PLP-1E

G2-4 E-23

ELEV 384'-6"

ELEV 383'-6"

CONDUIT TO CONTROL PANEL CP2 THIS DRAWING

CONDUIT UP TO CONTROL PANEL CP-1, DRAWING E-35

PB1

SCUM PUMP #1 M 61 AUTO OILER

156 NT

GAL #2 HOIST M 156

THICKENED SLUDGE PUMP #5 AUTO OILER M 60 PB1

THICKENED SLUDGE PUMP #4 AUTO OILER M 59 PB1 PB3

THICKNER SLUDGE PUMP #3 M 58 AUTO OILER PB1

BOTTOM of CONDUIT 388'-8"

1 E-23

EJ

A E-23 B E-22

B E-23 A E-24

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8" = 1'-0"

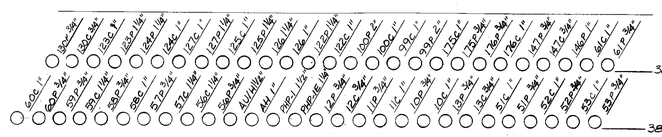
N

1/2" 15Q 3/4" TELE 3/4" DPBM 3/4" VLVSAMP 1" 60C 3/4" 60P 3/4" 59P 1/4" 59C 3/4" 58P 1" 58C 384'-6"

SECTION G2-3

3/4" HYAN 3/4" P.P.-1B 3/4" 30C 3/4" 30C 1/2" SUMP 3/4" CP-2 384'-6"

SECTION G2-1



SECTION

NO SCALE G2-1 E-23

3/8" - 1'0" 0 1 2 3 4 5 6 7

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MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

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2	FOR CONSTRUCTION JOB	2/24/78	JRC	JRC	SGB	2/24/78
1	FOR APPROVALS JOB	3/31/78	TDA	JRC	SGB	3/31/78

PROJECT SUPERVISOR S. G. Bunisi

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #2 POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 23

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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KEY PLAN

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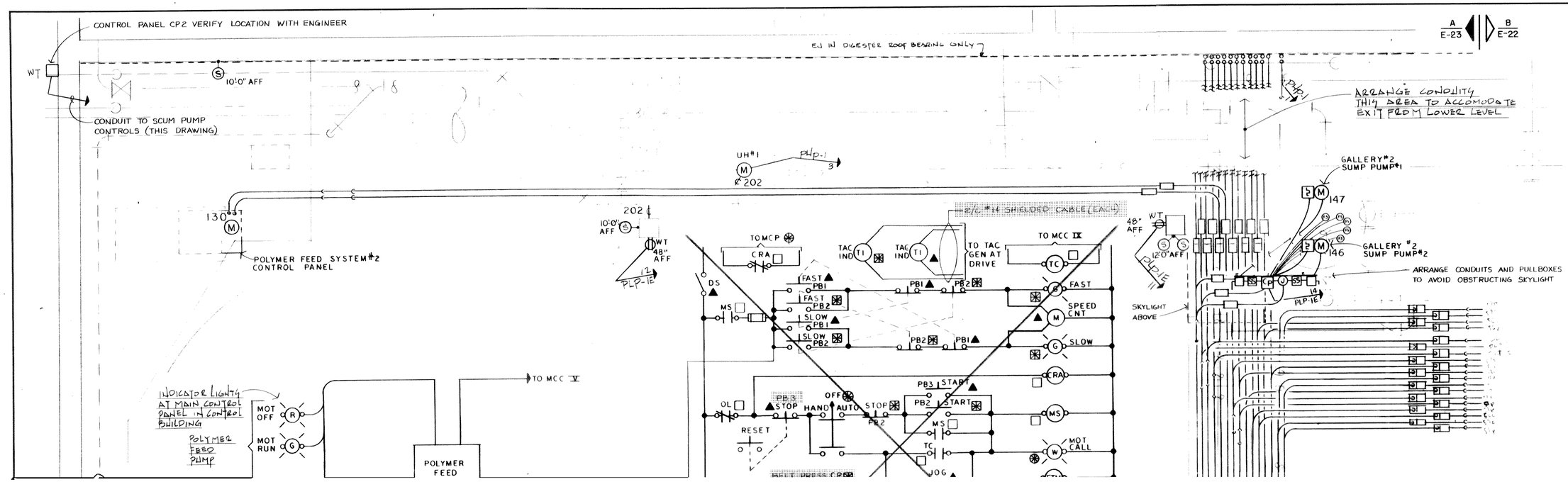
202



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B E-23 / A E-24

48" AFF WT W R — PLP-CRE 2"

INTERCOMMUNICATION / TELEPHONE SYSTEM PULLBOX, PROCESS STRUCTURE MOUNT ABOVE INTERMEDIATE STAIR LANDING.

PROVIDE RACK AT END OF MEZZANINE FOR ELECTRIC

A E-7 / C E-24

WT 267 WT 266

M 266 M 267

E.J. AT FLOOR & CEILING

CONTINUED ON DRAWING E-7

A E-7 / C E-24

THICKENER SUMP PUMP #2

THICKENER SUMP PUMP #1

WT 48" AFF — PLP-CRE 1"

M 149 M 148

CP J 59 59

S S 12'-0" AFF

B E-24 / A E-25

CONTINUED ON DRAWING E-25

S S 48" AFF WT — PLP-CRE 1"

202 ¢

M UH#1 202

THICKENED SLUDGE PUMP #2

AUTO OILER

M 55

THICKENED SLUDGE PUMP #1

M 54

AUTO OILER

PLP-CRE 2"

PLP-CRE 2"

DENSITY SENSOR

DENSITY SENSOR CONTROL PANEL

DENSITY SENSOR CONTROL PANEL

CONDUITS TO MCC'S, ARRANGE FOR PROPER ENTRANCE TO MOTOR CONTROL CENTER

CONTINUED ON DRAWING E-25

E.J AT ALL LEVELS

1 E-23

ARRANGE CONDUITS AND PULLBOXES TO AVOID OBSTRUCTING SKYLIGHT

SKYLIGHT ABOVE

B E-23 / A E-24

12'-0" AFF - VERIFY EXACT LOCATION WITH ENGINEER

E.J

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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39 & 40 TO LIGHTS

TIE TO BC LIGHTS

15c 15p 16c 16p 18c 18p 17c 17c

CONDUITS CONTINUED ON DRAWING E-36

B E-24 / A E-25

SKYLIGHT ABOVE

WT 48" AFF — PLP-CRE 2"

ARRANGE CONDUITS AND PULLBOXES TO AVOID OBSTRUCTING SKYLIGHT (TYPICAL)

CONDUITS TO MCC'S, ARRANGE FOR PROPER ENTRANCE TO MOTOR CONTROL CENTER

KEY PLAN

PARTIAL FLOOR PLAN - LOWER LEVEL

SCALE 3/8" = 1'-0"

N

3/8" - 1'-0" 1 0 1 2 3 4 5 6 7

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SYRACUSE, NEW YORK 13202

STERLING G. DIVEN LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

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2	FOR CONSTRUCTION JOB 82479-1		JRC	JRC	S.G.B	2/29/78
1	FOR APPROVALS JOB 3/31/76		TBA	JRC	S.G.B	3/31/76

PROJECT SUPERVISOR J. R. Smith — APPROVED S. G. Bunting

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #2 POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 — CONTRACT NO. 2 — SHEET E 24

203

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B E-24 / A E-25

SWITCH "DS-VII"
SWITCH "DS-V"
CONTINUED ON DRAWING E-24
SWITCH "DS-VIII"
SWITCH "DS-IX"
C E-28
SWITCH "DS-10"
SWITCH "DS-VI"
12 PLP-CRE
CONTINUED ON DRAWING E-24
LIGHTING CONTACTORS #7 & #8 AND TYPE #2 TIME CLOCK, REFER TO DIAGRAM ON DWG E-18
B E-24 / A E-25

SWITCH "DS-VIIE"
1 E-26
SPLICE BOX
AIR COMPRESSOR #1 STARTER
MOTOR CONTROL CENTER #IX
207
M UH#2
2 PLP-CRE
MOTOR CONTROL CENTER #VI
MOTOR CONTROL CENTER #VIII
ATS-IX
ATS-VIII
SWITCH "IXE"
MOTOR CONTROL CENTER #VII
AIR COMPRESSOR #2 STARTER
FUTURE AIR COMPRESSOR STARTER
MOTOR CONTROL CENTER #V
SPLICE BOX
SPLICE BOX
12 PLP-CRE
AC WT
AC WT
9 PLP-CRE
8 PLP-CRE
INST. AIR COMPRESSOR PANEL "E"
M 93
M 92
CONTINUED ON DRAWING E-2
TOD 369.625
WT 48" AFF
10 PLP-CLE
CONTINUED ON DRAWING E-2
TOD 371.5
CONTINUED ON DRAWING E-2
pull Box
CONDUIT UP TO ITEM #269 CONTROL PANEL
225 WT
WT 164
90₁, 90₂, BU/AC2
89₁, 89₂, BU/AC1
K/VIII, K/IX
95p
94p
2 PLP-CRE
UH#4
M 225
O2 RM HOIST
M 164
CONDUIT TO MOTOR CONTROL CENTERS, ARRANGE FOR PROPER ENTRY TO MOTOR CONTROL CENTERS
CONTINUED ON DRAWING E-28
EJ AT FLOOR & CEILING
207
T
TRANSFORMER "T-CRE"
PANEL BOARD "PLP-CRE"
PANEL BOARD "PHP-CRE"
S MOUNT AS HIGH AS POSSIBLE
S 10'0" AFF
7 PLP-CRE
CONTROL PANEL "AU"
MCC IX
TRANSFORMER "AU"
T
C
AU/BO
AU/K
AU/E
AU/EV
AU/O2
NOTE
REFER TO INTERCONNECTION DIAGRAM FOR OXYGEN GENERATION SYSTEM CONTROL PANELS, DWG E-55
W R
S 10'0" AFF
6 PLP-CRE
UP TO OUTLETS ABOVE
WT
S MOUNT AS HIGH AS POSSIBLE
C 263
M CH#3
16 PLP-CLE
PLANT EMERGENCY TRIP STATION BY CONTRACTOR #1
2#12 3/4" C TO PANEL 'BU'
EMBEDDED BELOW FLOOR
TO MOTOR CONTROL CENTERS ARRANGE FOR PROPER ENTRY TO MOTOR CONTROL CENTERS
FOR AS-BUILT CONDITION, SEE BEC ELECTRIC DWG. SD-1074-E28R
CONTINUED ON DWG E-28
KEY PLAN
B E-25 / A E-28

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC. AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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B E-25 / A E-28

PARTIAL IST FLOOR PLAN LOWER LEVEL

SCALE 3/8"= 1'-0"

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

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MILLER · SIZING, P.C.
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SYRACUSE, NEW YORK 13202

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1	FOR APPROVAL JOB	5/31/76	TBA	J.E.C	S.G.B	5/31/76

PROJECT SUPERVISOR S.G. Brisbin APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - ELECTRIC ROOM AND OXYGEN GENERATOR ROOM - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 25

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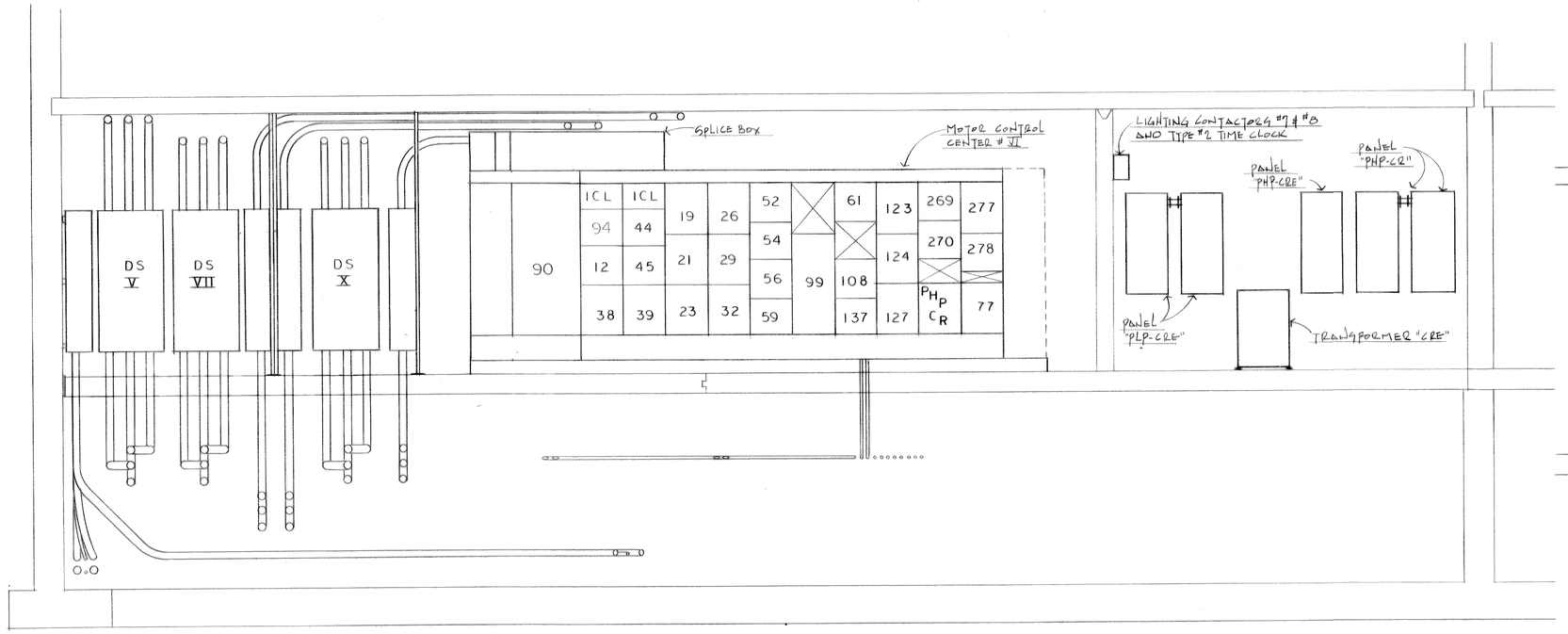
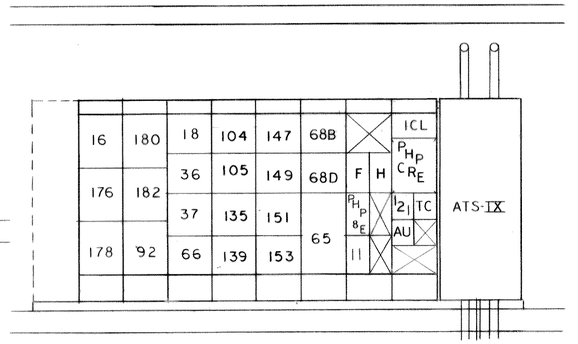
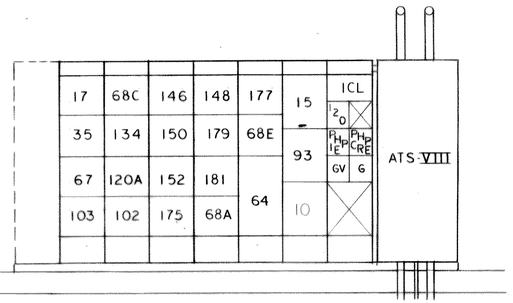


SECTION 1 / E-25
SCALE 3/8" = 1'-0"

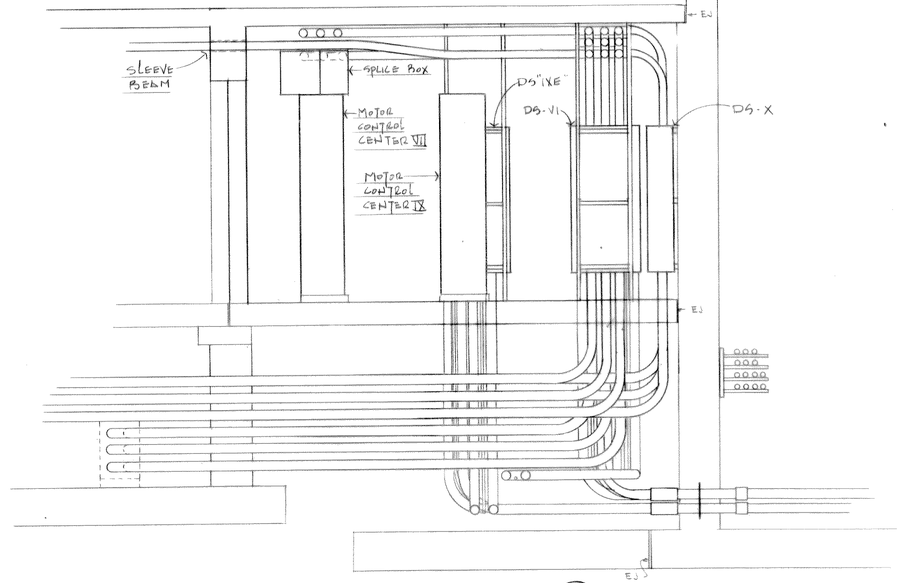
REFER TO BEC ELECTRIC DWG. SD1074 E28R FOR EQUIPMENT LAYOUT PLAN.



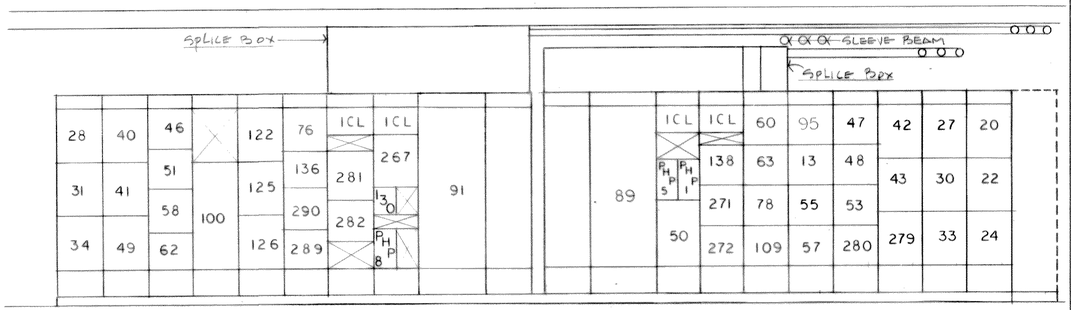
MOTOR CONTROL CENTER IX
NO SCALE



MOTOR CONTROL CENTER VIII
NO SCALE



SECTION 2 / E-25
SCALE 3/8" = 1'-0"



MOTOR CONTROL CENTER V
NO SCALE

MOTOR CONTROL CENTER VII
NO SCALE

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/1/83	RAK		JRC	4/1/83
2	FOR CONSTRUCTION JOB	2/24/78	JRC	JRC	SLB	2/24/78
1	FOR APPROVAL JOB	8/31/76	TBA	JRC	SLB	8/31/76

PROJECT SUPERVISOR J. L. Swanson
APPROVED S. G. Buxton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ELECTRIC ROOM - DETAILS
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT
JOB NO. 577 | CONTRACT NO. 2 | SHEET E 26

NOTE:
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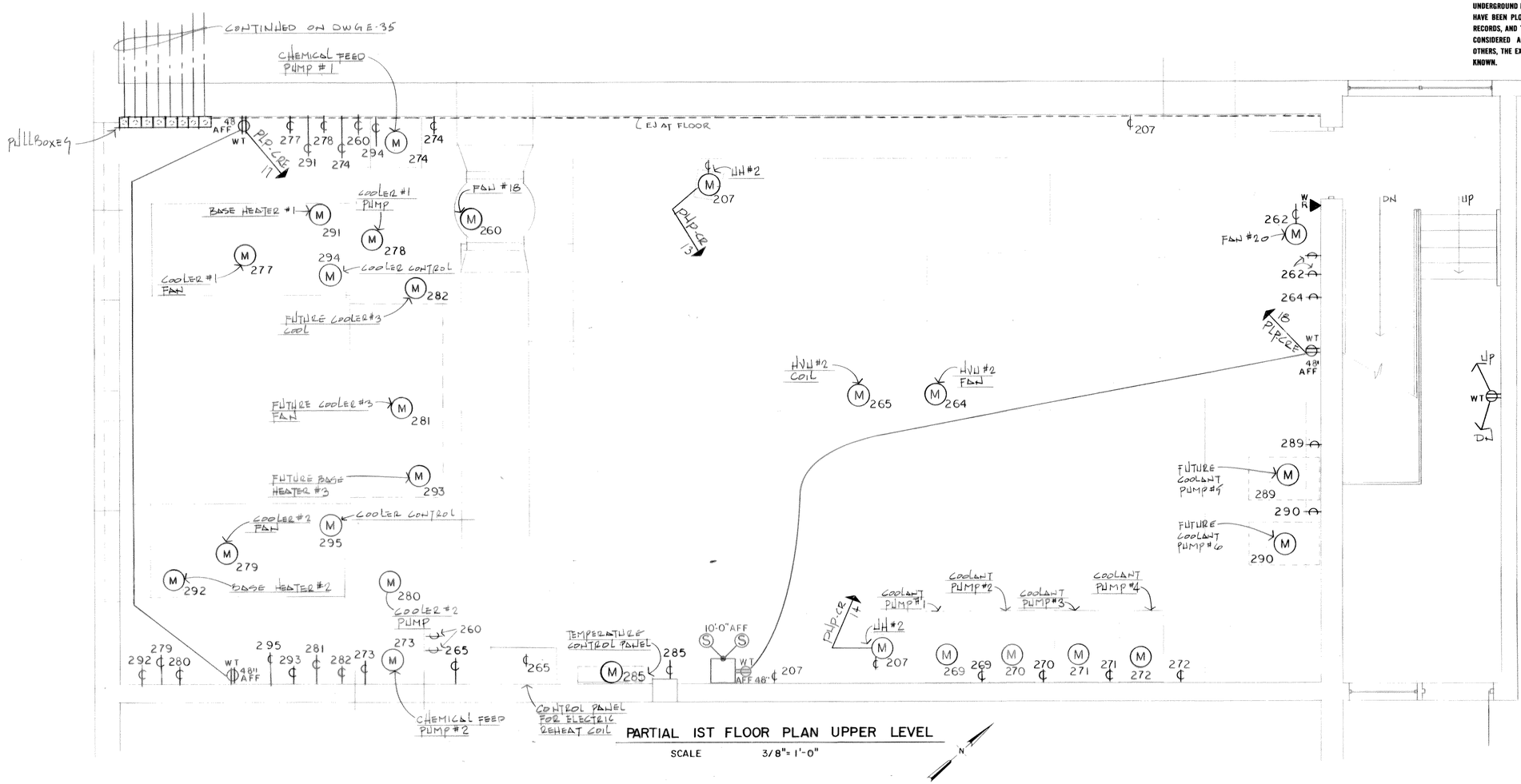
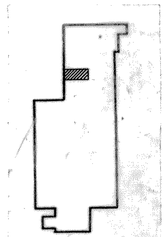


PARTIAL IST FLOOR PLAN UPPER LEVEL

SCALE 3/8"= 1'-0"

REFER TO BEC ELECTRIC DWG. SD1074 FOR SLEEVE LOCATION

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.



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3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/4/83	RAK		JRC	4/4/83
2	FOR CONSTRUCTION JOB	3/24/78	JRC	JRC	SGB	3/24/78
1	FOR APPROVALS JRD	3/31/76	TBA	JRC	SGB	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Brinton

ONONDAGA COUNTY NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ENTRANCE STRUCTURE & H.V. EQUIPMENT ROOM - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 27

B E-25 / A E-28

CONTINUED ON DRAWING E-29

94P 95P AU/EV AU/02 K/EV

CONTINUED ON DRAWING E-36 SEE SLEEVE DWGS

WT 48" AFF ℄ 225

PLP-CRE 16

TERMINATE CONDUITS FLUSH WITH FLOOR USING COUPLING & PLUG; FOR FUTURE AIR COMPRESSOR #3

PLP-CRE 4

M 225 UH#4

PROCESS AIR COMPRESSOR #2

M 90

AIR COMPRESSOR #2 TERMINAL BOX

WT

$90_1, 90_2$

BU/AC2

BU/AC1

MOUNT AS HIGH AS POSSIBLE

COMPRESSOR PANEL "BU"

PROCESS AIR COMPRESSOR #1

M 89

AIR COMPRESSOR #1 TERMINAL BOX

WT

$89_1, 89_2$

K/EV

K/VIII K/IX

BU/K

AU/K

WT 48" AFF ℄ 225

PLP-CRE 4

PLP-CRE 6

M UH#4 225

REFER TO INTERCONNECTION DIAGRAM FOR OXYGEN GENERATION CONTROL SYSTEM PANELS; DWG E-55 (TYPICAL)

PSA SKID PANEL "K"

CONTINUED ON DRAWING E-36

179c 179p 178c 178p 24c 24p 19c 19p 22c 22p 21c 21p 20c 20p 23c 23p

18 1c 18 1p 22c 22p 21c 21p 31c 31p 34c 34p 18 0c 18 0p 21c 21p 30c 30p 31c 31p 33c 33p 32c 32p 26c 26p

CONDUITS TO MCC'S ARRANGE CONDUITS FOR PROPER ENTRANCE TO MOTOR CONTROL CENTER RUN CONDUITS BELOW SLAB

CONTINUED ON DRAWING E-36

B E-28 / A E-29

B E-25 / A E-28

CONTINUED ON DWG E-29

BELOW SLAB

WT 48" AFF 202 ℄

PLP-CRE 15

M 202 UH#1

WT 48" AFF

PLP-CRE 11

PLP-CRE 24

PLP-CRE 25

PLP-CRE 26

TRANSMITTERS AND RECEIVERS FT-5 FR-5, SQ-5, PAR-18 PDR-18 REFER TO DIAGRAMS ON DWG E-54

12'0" AFF

143 CONDUITS ENCASED BELOW SLAB

CONTINUED ON DWG E-29

EJ

B E-28 / A E-29

KEY PLAN

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8"= 1'-0"

N

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REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

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3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/14/83	RAK	JRC	JRC	4/14/83
2	FOR CONSTRUCTION JOB	2/24/76	JRC	JRC	SCB	2/24/76
1	FOR APPROVALS JOB	3/31/76	JRC	TBA	SCB	3/31/76

PROJECT SUPERVISOR Joel Brennan APPROVED S.C. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
LOWER PLAN - OXYGEN GENERATION ROOM & PARTIAL GALLERY #3 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 V CONTRACT NO. 2 SHEET E 28

B / E-28 / A / E-29

EXPANSION JOINT AREA IN BURIED CONDUIT-SAND FILLED

EJ AT FLOOR & ROOF

PLUG VALVE TO "MCP" IN A-202 REFER TO M42 & M47 FOR LOCATION.

PV

4"ø 12-3/4"C

4 #12 3/4" C TO "MCP" RM. A-202

PLUG VALVE

ELECTRIC DUCTBANK

TO DUCTBANK CONDUIT RISER #1

EJ

ADDENDUM ITEM NO. 162: PARTIAL FLOOR PLAN, LOWER LEVEL- MOVE PLUG VALVE TO OPPOSITE SIDE OF GALLERY, REFER TO DWG. M42 & M47 FOR LOCATION.

B / E-29 / C / E-29

C-19 #1

C-19 #2

C-19

GAL. #4

DUCTBANK BELOW SLAB (BY CHANGE ORDER)

2'-8" TYP.

#1 #2 #3 #4 #5 #6 #7

1ST STAGE AERATION TANK 2-1

1ST STAGE AERATION TANK 2-2

"CONDUIT RISER" TYP. FOR 7

370.0

1ST STAGE AERATION TANK 2-3

EJ

RAMP

DN

S-29A - FROM STEARNS & WHEELER LETTER 6/15/79

REFER TO DWG. S-29A THIS SHEET FOR CONDUIT IN THIS AREA

B / E-29 / C / E-29

PVC-CE

M 207 UH #2

207 WT ℄ 48" AFF WT

PIPE

B / E-29 / C / E-29

B / E-29 / C / E-29

C / E-29 / A / E-30

B / E-29 / C / E-29

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TRANSMITTERS & RECEIVERS FT-4, FR-4 PAR-IC, PDR-IC, SQ-4 REFER TO DIAGRAMS ON DWG E-54

PVC-CRE 1" 1" 2"

A SKYLIGHT IS LOCATED WITHIN THIS 20' BREAK AREA. ARRANGE CONDUITS TO AVOID OBSTRUCTING SKYLIGHT.

20'-0"

PVC-CRE 2"

4#12 - 3/4"C 2ØA 3P

PT-3 CABINET REFER TO DIAGRAM ON DWG E-54

15'-0"

48" AFF WT

WR

2" PVC-CRE

MOUNT AS HIGH AS POSSIBLE

DISCONNECT SWITCH "AF"

WT

TRANSFORMER "AF"

T

WT

TO PANEL "AU"

ANALYZER PANEL "F"

AU/F

TO PANEL "AU"

ANALYZER PANEL "G"

AU/G

REFER TO INTERCONNECTION DIAGRAM FOR OXYGEN GENERATION SYSTEM CONTROL PANELS DWG E-55

TRANSFORMER "AG"

T

WT

DISCONNECT SWITCH "AG"

WT

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

34'-0"

M 202 UH9

PVC-S

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202 WT

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8"= 1'-0"

KEY PLAN

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MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
2	JRD FOR CONSTRUCTION	4/4/83	RAK		SLB	5/24/78
1	JOB SPECIFICATIONS	5/24/78	JRC	JRC	SLB	5/24/78
	JRD	5/24/78	JRC	T&A	SLB	

PROJECT SUPERVISOR: Jack Brennan — APPROVED: S.L. Bialek

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #4 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 29

308

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TRANSMITTERS AND RECEIVERS PAR-1E, PDR-1E, PAR-3, FR-7 REFER TO DIAGRAMS ON DWG E-54

TO ITEM # 43

TO ITEM # 44

TO ITEM # 42

FOR UH #6 ON DWG - E-32

CONTINUED ON DWG E-32

TO PUMP GALLERY C#10 3 #12 GR-1"C

48" AFF

PLP-5E

SKYLIGHT ABOVE

ARRANGE CONDUITS AND PULLBOXES TO AVOID OBSTRUCTING SKYLIGHTS

2 # 10 3/4"C EACH

RAS PUMP #5

RAS PUMP #4

WAS PUMP #3

MOUNT OFF SIDE OF CHANNEL

UH #6

PBI

151P 150C 150P

GAL #6 SUMP PUMP #2

GAL #6 SUMP PUMP #1

EJ IN ROOF

12'-0" AFF

EJ IN FLOOR & ROOF

CONTINUED ON DWG E-31

SKYLIGHT ABOVE

1-2C #14 SHEILDED 3/4"C TO FR-6

TO FR-6 2 # 10 3/4"C

TRANSMITTER FT-6, REFER TO DIAGRAMS ON DWG E-54

TO FE-7 1-2C #14 SHEILDED 3/4"C

TO FR-7 2 # 10 3/4"C

TRANSMITTER FT-7 REFER TO DIAGRAMS ON DWG E-54

CONTINUED ON DWG E-33

▲ = POWER INPUT KIT

47D 47C 44P 43C 68EP 68EC 68PP 68PC 68CP 68CC 67P 67C 68AP 68AC

SECTION 2/E-30

44P 45C 40P 40C 39P 39C 38P 38C 44P 44C PHP-5 6C 6P 67C 67P PHP-5E

SECTION 1/E-30

37P 36P 36C 35P 35C 48C 48P 49C 49P 42P 42C

SECTION 3/E-30

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8" = 1'-0"

SEE SHOP DWG SD1074-E47 FOR CONDUIT LAYOUT

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/4/83	RAK		JRC	4/4/83
2	FOR CONSTRUCTION JOB	12/24/75	JRC	JRC	S.G.B	3/24/76
1	FOR APPROVALS JRD	2/31/76	JRC	TBA	S.G.B	3/31/76

PROJECT SUPERVISOR J. R. Stevens
APPROVED S.G. Brubin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #5 AND #6 POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 30

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SEE SHOP DWG SD1074-E47 FOR CONDUIT ROUTING

D E-30 | A E-31

TRANSMITTERS & RECEIVERS FT-1, FT-2, FR-1, FR-2, SQ-1, SQ-2 FR-6, PDR-1D, PAR-1P, REFER TO DIAGRAMS ON DWG E-54

PLP-5E 14
PLP-5E 13
PLP-5E 11
PLP-5E 12
TO ITEM #38
TO ITEM #39
PLP-5E
225 WT
WT WT WT
T1 T1 T1
PB-2 PB-2 PB-2
48" AFF WT
MOUNT AS HIGH AS POSSIBLE
CONTINUED ON DRAWING E-30

UP

BELOW STAIRS
AC WT
PLP-5E 8
AC WT
PLP-5E 9
5' - 0" AFF
PANEL "PLP-5E"
WT
TRANSFORMER "TP-5"
T
WT
WT
PANEL "PHP-5E"
WT
PANEL "PHP-5"
WT 255
CONTINUED ON DWG E-38

TO PB-2
TO PB-2
TO PB-2

RAS PUMP #3
M 40
PBI
RAS PUMP #2
M 39
PBI
RAS PUMP #1
M 38
PBI
WAS PUMP #2
M 45
PBI
WAS PUMP #1
M 44
PBI

SKYLIGHT ABOVE

ARRANGE CONDUITS TO AVOID OBSTRUCTING SKYLIGHT

PHP-5 3
UH #4
M 225

UH #4
M 225
PHP-5 4

PLP-5E
48" AFF WT
WT 225

67P
67C
66P
66C
PULLBOXES
CONTINUED ON DRAWING E-38

PARTIAL FLOOR PLAN LOWER LEVEL
SCALE 3/8"= 1'-0"

D E-30 | A E-31

LOCATE JUNCTION BOX AS DIRECTED BY ENGINEER WITHIN 3'-0" OF CONNECTION TO CRANE RAIL OR HOIST

DISCONNECT SWITCH SIZE AS SHOWN ON ELECTRIC EQUIPMENT AND CONTROL SCHEDULE DRAWING E-4. LOCATE AS DIRECTED BY ENGINEER.

CIRCUITRY AS SHOWN ON ELECTRIC EQUIPMENT AND CONTROL SCHEDULE DRAWING E-4.

FLEXIBLE CONNECTION TO CRANE RAIL OR HOIST AS SCHEDULED ON DRAWING E-4 ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

TYPICAL CRANE RAIL OR HOIST DETAIL
NO SCALE

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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KEY PLAN

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3/8" = 1'0" 1 0 1 2 3 4 5 6 7

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

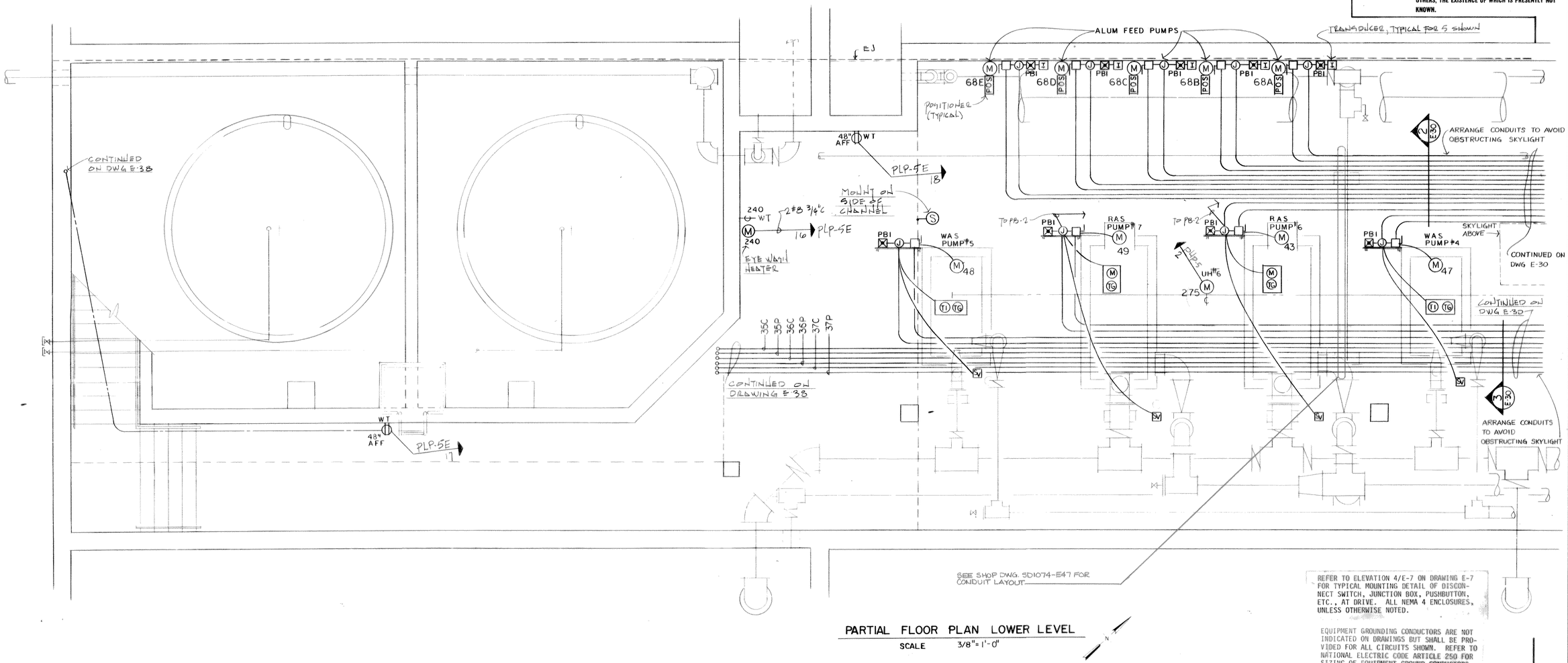
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD	JRD	4/4/88	RAK		JRC	4/4/88
2	FOR CONSTRUCTION	JOB	2/24/78	JRC	JRC	SGB	3/8/78
1	FOR APPROVALS	JOB	9/30/76	JRC	TBA	SGB	9/30/76

PROJECT SUPERVISOR [signature] APPROVED S.G. Bruton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #5 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 31



PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8" = 1'-0"

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3/8" = 1'0" 0 1 2 3 4 5 6 7

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3	RECORD				JRC	4/14/83
2	JRD	4/14/83	RAK		S.G.B	6/24/78
1	FOR CONSTRUCTION JOB	6/24/78	JRC	JRC	S.G.B	3/31/76
	FOR APPROVALS JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR Jack Swanson APPROVED S.G. Brubaker

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #6 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 32

B E-30 / A E-33

3 / E-55

PULLBOXES

SKYLIGHT ABOVE

ARRANGE CONDUITS AND PULLBOXES TO AVOID OBSTRUCTING SKYLIGHT

EJ IN FLOOR & ROOF

5-2"C SLEEVES CAP BOTH ENDS

5-2"C SLEEVES CAP BOTH ENDS

34'-0" ±

SKYLIGHT ABOVE

ARRANGE CONDUITS TO AVOID OBSTRUCTING SKYLIGHT

PHP-5

PHP-5E 19

48" AFF WT

UH#2 M 207

S 12'-0" AFF

WT 207

11'-0" ±

SEE SHOP DWG SD1047 E60 FOR CONDUIT LAYOUT.

2 / E-33

PHP-5E 20 WT

B E-33 / C E-33

B E-30 / A E-33

PULLBOXES

ADDENDUM ITEM NO. 163- PARTIAL FLOOR PLAN, LOWER LEVEL- THICKNER MAKE-UP PUMP #3: ADD SOLENOID VALVE BY CONTRACTOR #1; PROVIDE 2#12-1/2"C FROM SOLENOID VALVE TO CONTROL PANEL.

SECTION 1 / E-33
NO SCALE

UP TO FLASH MIXER #2 ON DWG E-39

SEE SHOP DWG SD1074E6 FOR CONDUIT LAYOUT

39p 39c 77c 76c 153p 152c 152p 121p 121c 134p 134c 135c 135p 120p 120c 139p 139c 120pc 136c 137c PHP-8E

VOID

SECTION 2 / E-33
NO SCALE

D E-33 / A E-34

B E-33 / C E-33

3/8" = 1'0"

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 3/8"= 1'-0"

B E-33 / C E-33

B E-33 / C E-33

ARRANGE CONDUITS TO AVOID OBSTRUCTING SKYLIGHT

SKYLIGHT ABOVE

12'-0" ±

48" AFF WT

PHP-8

10'-0" ±

2 / E-33

FT-3

12'-0" AFF

207 WT

PHP-8

UH#2 M 207

THICKENER MAKE UP PUMP #3

M 50

136c 136p 137p 137c

UP TO FLASH MIXER #1A ON DWG E-39

UP TO FLASH MIXER #1B ON DWG E-39

PULLBOXES

UP TO SCUM PUMP #2 PUSHBUTTON STATION ON DWG E-39

PULLBOX

138c 138p

PHP-8E 3

PHP-8E 4

PHP-8E 5

PHP-8E 6

TRANSMITTERS & RECEIVERS FR-3, FR-2D, FR-1D, SQ-3 PDR-1F, PDR-1F, PHR-2, PHR-4. REFER TO DIAGRAM ON DRAWING E-54

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

PULLBOXES

KEY PLAN

D E-33 / A E-34

EJ IN FLOOR

1 / E-33

CONTINUED ON DWG E-34

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC. AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

It is a violation of the New York State Education Law for any person unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD				JRC	4/4/83
2	JRD	4/4/83	RAK		SCB	3/24/78
	FOR CONSTRUCTION					
	JOB	1/24/78	JRC	JRC	SCB	3/21/78
	FOR APPROVALS					
1	JRD	9/21/76	JRC	TBA	SCB	3/21/78

PROJECT SUPERVISOR: Joel Swanson — APPROVED: S.C. Brisbin

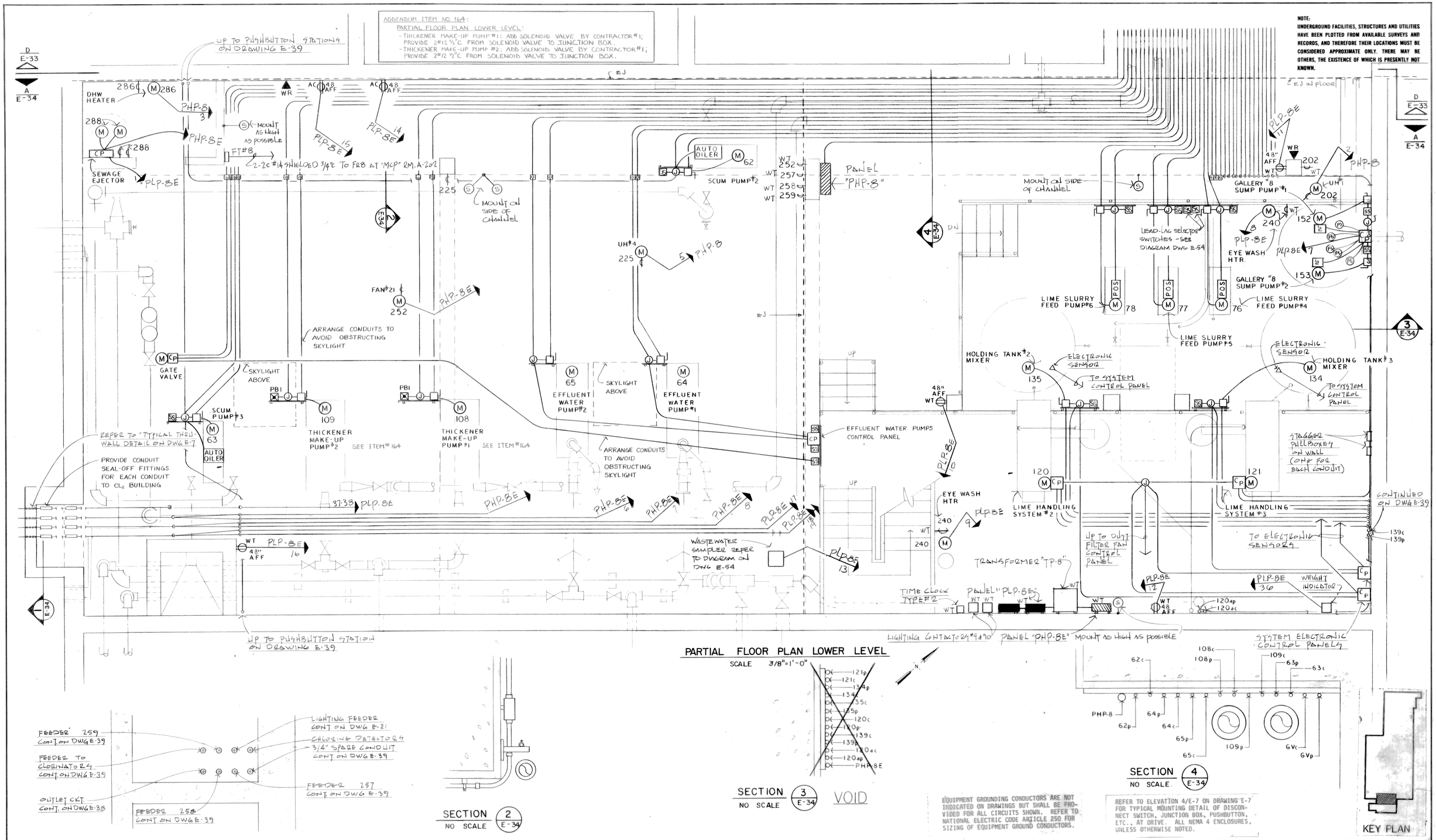
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - PARTIAL GALLERY #7 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 33

ADDENDUM ITEM NO 164:
PARTIAL FLOOR PLAN LOWER LEVEL:
-THICKENER MAKE-UP PUMP #1: ADD SOLENOID VALVE BY CONTRACTOR #1; PROVIDE 2#12 ½"C FROM SOLENOID VALVE TO JUNCTION BOX.
-THICKENER MAKE-UP PUMP #2: ADD SOLENOID VALVE BY CONTRACTOR #1; PROVIDE 2#12 ½"C FROM SOLENOID VALVE TO JUNCTION BOX.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION 1 / E-34 NO SCALE

SECTION 2 / E-34 NO SCALE

PARTIAL FLOOR PLAN LOWER LEVEL
SCALE 3/8"=1'-0"

SECTION 3 / E-34 NO SCALE VOID

SECTION 4 / E-34 NO SCALE

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

KEY PLAN

3/8" = 1'-0"

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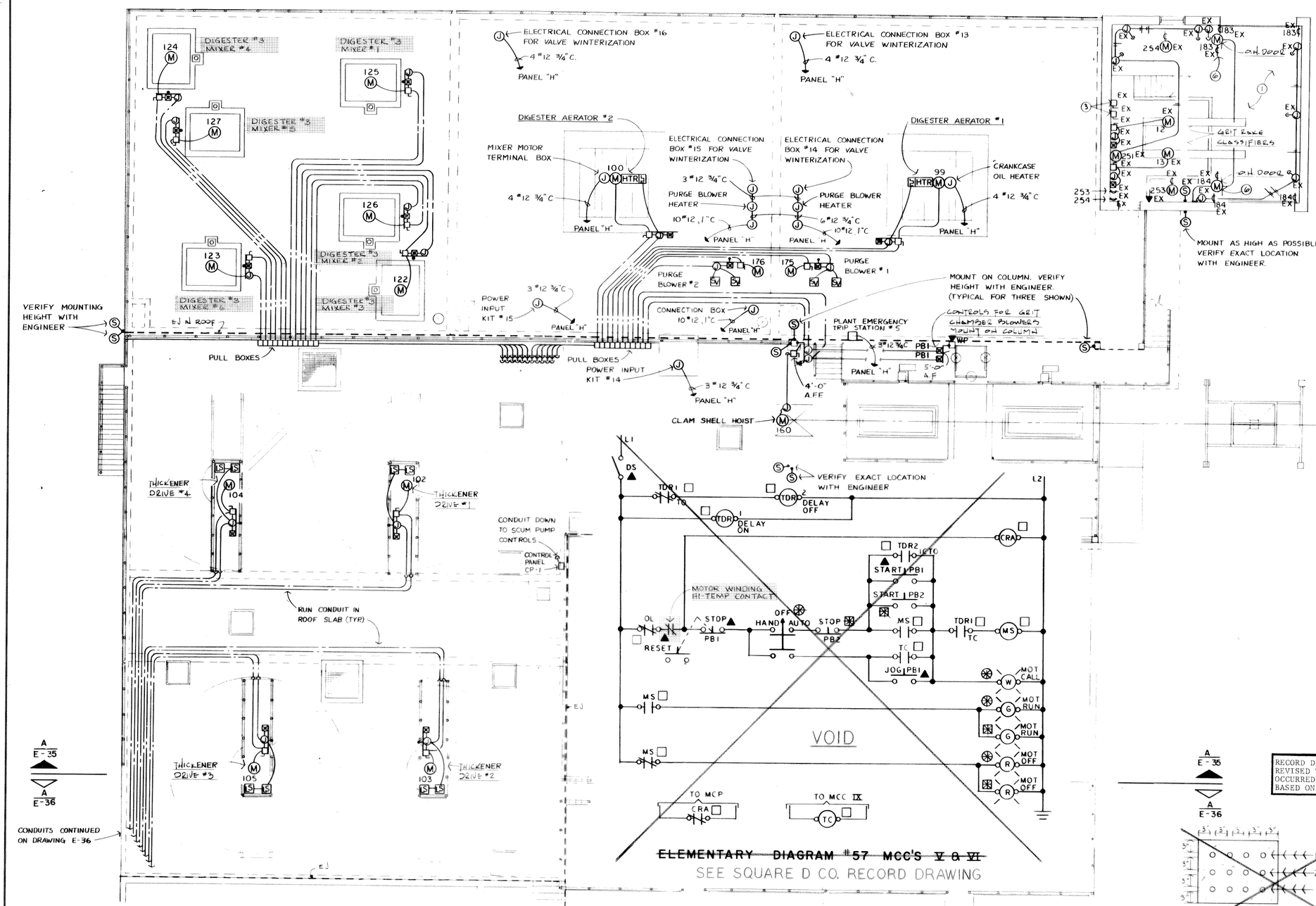
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD JRD	4/14/83	RAK		JRC	4/14/83
2	FOR CONSTRUCTION JOB	2/24/76	JRC	JRC	S.C.B	2/24/76
1	FOR APPROVAL JOD	5/31/76	JRC	TBA	S.C.B	5/31/76

PROJECT SUPERVISOR Joel Swanson
APPROVED S.C. Britton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
LOWER PLAN - GALLERY #8 - POWER
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT
JOB NO. 577 CONTRACT NO. 2 SHEET E 34

213



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTES (THIS DRAWING ONLY)

1. THE GRIT BUILDING SHALL BE CONSIDERED A CLASS I DIVISION I HAZARDOUS AREA. ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 501.
2. UP TO JUNCTION BOX SHOWN ON UPPER LEVEL PLAN THIS DRAWING.
3. DISCONNECT SWITCHES FOR GRIT CHAMBER BLOWERS.
4. UP TO DISCONNECT SWITCHES.
5. UP TO MANUAL STARTERS.
6. REFER TO TYPICAL O.H. DOOR WIRING DIAGRAM ON DRAWING C-8.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES. UNLESS OTHERWISE NOTED.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

CONDUIT LAYOUT ON SD1074-E35

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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4	RECORD				JRC	4/14/88
	JRD	4/14/88	RAK			
3	PC-84 BELT PRESS WIRING				JLS	3/4/80
	RAK	2/80	JEC	RAK		
2	FOR CONSTRUCTION				SGB	2/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVAL				SGB	5/31/76
	JDP	5/31/76	JRC	TBA		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: Joel Levenson — APPROVED: S.G. Bruni

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
UPPER PLAN - SECTION #1 POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 35 BP

NOTE:
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A E-35 / A E-36

104p
104c
102c
102p
103p
103c
105c
105p

RUN CONDUIT IN ROOF SLAB (TYP)

EJ AT MECH ROOM FLOOR

CONDUITS CONTINUED ON DRAWING E-24

CONDUITS CONTINUED ON DRAWING E-27

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION W/ENGINEER

MOUNT AS HIGH AS POSSIBLE

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION W/ENGINEER

CONDUITS CONTINUED ON DRAWING E-28

ELECTRICAL CONNECTION TO HEAT TRACING FOR NON-POTABLE WATER SERVICE PIPING TO LOX EQUIPMENT

ELECTRICAL CONNECTION FOR VALVE WINTERIZATION

2"ø 3/4"C PLP-CRE

LOX EVAPORATOR

ENCASE CONDUITS IN CONCRETE ENVELOPE; MAINTAIN MIN. 30" COVER TO TOP OF DUCTBANK

4"ø 1/2 & 1"ø 6G-2"C

4"ø 2,1"ø 8G-1½"C

2'-0"

16"ø 12-1¼"C
16"ø 12-1¼"C
10"ø 12-1"C

LOX EVAPORATOR

PLP-CRE, 94p, 95p, AU/EV, AU/02, K/EV

SECTION 1/36 NO SCALE

43'-6"

PROVIDE UNISTRUT SUPPORT SYSTEM FOR CONDUITS; MAINTAIN 8'-0" CLEAR ABOVE DECK

178p, 178c, 179p, 179c
19p, 19c, 24p, 24c
21p, 21c, 22p, 22c
23p, 23c, 20p, 20c

CONDUITS CONTINUED ON DRAWING E-28

6'-0"
5'-0"
4'-0"
4'-0"
2'-0"

CONDUITS CONTINUED ON DRAWING E-37

EJ

CONDUITS CONTINUED ON DRAWING E-37

EJ

RUN CONDUIT IN SLAB (TYP)

PRIMARY ST. DRIVE

10"ø 14-1"C
3"ø 12, 1"ø 12G-3/4"C
PBI
3"ø 12, 1"ø 12G-3/4"C
8"ø 14-3/8"C

PRIMARY ST. DRIVE

3"ø 12, 1"ø 12G-3/4"C
10"ø 14-1"C
PBI
3"ø 12, 1"ø 12G-3/4"C
8"ø 14-3/8"C

EJ THRU STRUCTURE

EJ

A E-35 / A E-36

B E-36 / A E-37

PARTIAL FLOOR PLAN UPPER LEVEL
SCALE 1/8"= 1'-0"

1" 1/2 EMT
3/4" 2&4P, 1A
3/4" 2&3P, 1A
1" 2&3P, 1A
1" 2&4P, 1A
1" 3P, 1A
1" 4P, 1A
3/4" 4&5P, 1A
1" 5P, 1A
1" 2P, 2A
1" 3P, 2A
1" 4P, 2A
1" 5P, 2A
1" 2P, 3A
1" 3P, 3A
1" 4P, 3A
1" 5P, 3A
1" 2P, 4A
1" 3P, 4A
1" 4P, 4A
1" 5P, 4A

SECTION 3/E-36 ELEV. 387'-8" @ ℄

1" PHONE
3/4" 2&3P, 1A
3/4" 2P&1#10, 1A
3/4" 3P&1#10, 1A
1" 2P&1#8, 1A
3/4" SPEAKER
1" 2P, 2A
1" 3P, 2A
1" 4P, 2A
1" 5P, 2A
1" 2P, 3A
1" 3P, 3A
1" 4P, 3A
1" 5P, 3A
1" 2P, 4A
1" 3P, 4A
1" 4P, 4A
1" 5P, 4A
1" 1/2 EMT
3/4" 1&3P, 1A
3/4" 1&3P, 1A
1" 1&3P, 1A
1" LIGHTING 3#12, 3#10, 3#8 SEE SHEET E-18A

SECTION 2/E-36 ELEV. 387'-8" @ ℄

ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

B E-36 / A E-37

KEY PLAN

1/8" = 1'0" 8 4 0 8 16

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consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/14/83
	JRD	4/14/83	RAK			
2	FOR CONSTRUCTION				S.C.B.	2/20/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				S.C.B.	1/31/78
	JOB	1/31/78	JRC	JBA		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.C. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
UPPER PLAN - SECTION #2 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 36

B E-36 / A E-37

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION W/ENGINEER

CONDUITS CONTINUED ON DRAWING E-36

CONDUITS CONTINUED ON DRAWING E-36

ELECTRICAL CONNECTION BOX #2 FOR VALVE WINTERIZATION

PURGE BLOWER 2-3

PURGE BLOWER 2-2

PURGE BLOWER 2-1

PROVIDE UNISTRUT SUPPORT SYSTEM FOR CONDUITS; MAINTAIN 8'-0" CLEAR ABOVE DECK

PROVIDE UNISTRUT SUPPORT SYSTEM FOR CONDUITS; MAINTAIN 8'-0" CLEAR ABOVE DECK (TYPICAL)

PURGE BLOWER 1-2

PLANT EMERGENCY TRIP STATION #3

PLANT EMERGENCY TRIP STATION #4

PLANT EMERGENCY TRIP STATION #2

ELECTRICAL CONNECTION BOX #1 FOR VALVE WINTERIZATION

ELECTRICAL CONNECTION BOX #8 FOR VALVE WINTERIZATION

ELECTRICAL CONNECTION BOX #7 FOR VALVE WINTERIZATION

ELECTRICAL CONNECTION BOX #6 FOR VALVE WINTERIZATION

POWER INPUT KIT #6

POWER INPUT KIT #7

POWER INPUT KIT #1

POWER INPUT KIT #2

POWER INPUT KIT #3

POWER INPUT KIT #4

POWER INPUT KIT #5

POWER INPUT KIT #8

POWER INPUT KIT #9

POWER INPUT KIT #10

POWER INPUT KIT #11

POWER INPUT KIT #12

POWER INPUT KIT #13

PLP-CRE

MOUNT TELEPHONE IN CABINET CABINET #1 (FRP) PAR-2, PNR-1A, PDR-1A, PT-2. REFER TO DIAGRAMS ON DRAWING E-54

RELOCATE: SPEAKERS MOUNTED ON 12'-0" POLE. SEE ITEM #165

AERATOR 2ND STAGE 3-1

AERATOR 2ND STAGE 2-1

AERATOR 2ND STAGE 1-1

AERATOR 1ST STAGE 2-1

AERATOR 1ST STAGE 1-1

AERATOR 2ND STAGE 3-2

AERATOR 2ND STAGE 2-2

AERATOR 2ND STAGE 1-2

AERATOR 1ST STAGE 2-2

AERATOR 1ST STAGE 1-2

AERATOR 2ND STAGE 3-3

AERATOR 2ND STAGE 2-3

AERATOR 2ND STAGE 1-3

AERATOR 1ST STAGE 2-3

AERATOR 1ST STAGE 1-3

CRANKCASE OIL HEATER (TYPICAL FOR NINE SHOWN)

CRANKCASE OIL HTR (TYPICAL FOR SIX SHOWN)

SPEAKERS MOUNTED ON 16'-0" POLE. POLE BY ELECTRIC CONTRACTOR. RELOCATE APPROXIMATELY 40'-0" NORTH-WEST OF PRESENT LOCATION. SEE 37

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION WITH ENGINEER

B E-37 / A E-38

B E-37 / A E-38

KEY PLAN

TYPICAL AERATOR

OPENING

MIXER SKID

CURB

NOTE: POWER INPUT KITS LOCATED LOCATED BY U.C. DRAWINGS. FOR CONDUIT LAYOUT SEE SD1074-E45.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"= 1'-0"

ADDENDUM ITEM NO. 165:
PARTIAL FLOOR PLAN, UPPER LEVEL:
- RELOCATE 20'-0" SPEAKER POLE APPROXIMATELY 60'-0" NORTHWEST OF PRESENT LOCATION. CHANGE POLE HEIGHT FROM 20'-0" TO 12'-0".
- REFER TO DRAWING E-55, "TYPICAL TYPE 'BC' MOUNTING DETAIL ON STRUCTURAL SLABS" FOR POLE MOUNTING DETAIL. (TYPICAL FOR ALL SPEAKER POLES SHOWN ON THIS DRAWING).
- RELOCATE 16'-0" SPEAKER POLE APPROXIMATELY 40'-0" NORTHWEST OF PRESENT LOCATION.

1/8" = 1'0" (8 4 0 8 16)

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

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MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRD	4/4/83	RAK		JRC	4/4/83
2	FOR CONSTRUCTION JOB	2/24/78	JRC	JRC	S.C.B	2/24/78
1	FOR APPROVALS JOB	3/31/76	JRC	TBA	S.C.B	3/31/76

PROJECT SUPERVISOR Jack Swanson — APPROVED S.C. Brubaker

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
UPPER PLAN - SECTION #3 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 37

216

B / E-37 / A / E-38

FAN # 19
261
PHP-5
CONDUITS CONTINUED ON DRAWING E-32

375'-6"

ADDENDUM ITEM 166:
RELOCATE 16'-0" SPEAKER POLE APPROX. 20'-0" FROM EXISTING LOCATION. REFER TO DWG. E-15 FOR POLE MOUNTING.

EJ IN ROOF

SPEAKERS MOUNTED ON 16'-0" POLE. POLE BY ELECTRIC CONTRACTOR.

PHP-5
255
FAN # 13
GALLERY #5 HOIST
157
VERIFY EXACT LOCATION W/ ENGINEER
CONDUITS CONTINUED ON DRAWING E-31

CONDUITS DOWN THRU DECK, DOWN ALONG CHANNEL WALL.

B / E-37 / A / E-37

2nd STAGE SETTLING TANK #3 DRIVE
37
2nd STAGE SETTLING TANK #2 DRIVE
36
2nd STAGE SETTLING TANK #1 DRIVE
35
12-3/4"C
EJ
2'-6"
DN. TO GAL.
2'-6"
1'-6"
EJ
3'-0"
2'-0"

1st STAGE SETTLING TANK #2 DRIVE
67
8-3/4"C
1st STAGE SETTLING TANK #1 DRIVE
66
RUN CONDUITS IN ROOF SLAB (TYP.)

2#8 3/4"C PLPSE
SLUDGE BLANKET DETECTOR
4#12 3/4"C TO "MCP" ALARM MODULE RMA-202
2#8 3/4"C PLPSE
SLUDGE BLANKET DETECTOR
4#12 3/4"C TO MCP ALARM MODULE RMA-202
2#8 3/4"C PLPSE
SLUDGE BLANKET DETECTOR
4#12 3/4"C TO MCP ALARM MODULE RMA-202

PLPSE
SLUDGE BLANKET DETECTOR
4#12 3/4"C TO MCP ALARM MODULE RMA-202
PLPSE
SLUDGE BLANKET DETECTOR
4#12 3/4"C TO MCP ALARM MODULE RMA-202

375'-6"
T.O.W. 380'-3"
BOTTOM OF CHANNEL 374'-6"

NOTE:
FOR EXACT LOCATION OF STUB-UPS SEE ATTACHED DWG.

KEY PLAN

B / E-38 / A / E-39

ADDENDUM ITEM NO. 166:
PARTIAL FLOOR PLAN - RELOCATE 16'-0" SPEAKER POLE APPROXIMATELY 20'-0" EAST OF EXISTING LOCATION. REFER TO DRAWING E-15 "TYPICAL TYPE 'BC' MOUNTING DETAIL ON STRUCTURAL SLAB" FOR POLE MOUNTING DETAIL.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

ALL CONDUIT SHOWN THIS DRAWING SHALL BE CONCEALED IN CONCRETE DECK UNLESS NOTED OTHERWISE. VERIFY EXACT ROUTING OF ALL CONDUIT WITH ENGINEER.

EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED ON DRAWINGS BUT SHALL BE PROVIDED FOR ALL CIRCUITS SHOWN. REFER TO NATIONAL ELECTRIC CODE ARTICLE 250 FOR SIZING OF EQUIPMENT GROUND CONDUCTORS.

PARTIAL FLOOR PLAN
LOWER LEVEL
SCALE . 1/8"=1'-0"

1/8" = 1'0" 8 4 0 8 16

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	JRD	4/14/83	RAK		JRC	4/14/83
	RECORD					
2	JRD	2/24/78	JRC	JRC	S.G.B	2/24/78
	FOR CONSTRUCTION					
1	JRD	2/31/76	TBA	JRC	S.G.B	2/31/76
	FOR APPROVALS					

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S. G. Brayton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
UPPER PLAN - SECTION #4 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 38

B E-38 / A E-39

PROVIDE UNISTRUT SUPPORT FOR CONDUITS. MAINTAIN 8'-0" MINIMUM CLEAR ABOVE GRATING (TYP)

4"8-¾C. PLP-8E 27

CABINET #3 (FRP) PHM-1, PH-1, US-1 REFER TO DIAGRAMS ON DRAWING E-54

PBI 136 FLASH MIXER #1A

137 FLASH MIXER #1B

SCUM PUMP #2 PBI PBI

CABINET #2 (FRP) PHM-2, PH-2, US-2 REFER TO DIAGRAMS ON DRAWING E-54

MOUNT TELEPHONE IN CAB #2 WR

4"10 ¾C. 21 PLP-8E

FLASH MIXER #2 138

EJ

SCUM PUMP #2 SCUM PUMP #3 PB2 PB2

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION W/ENGINEER. (TYPICAL FOR SIX SHOWN THIS STRUCTURE)

MOUNT AS HIGH AS POSSIBLE. VERIFY EXACT LOCATION W/ENGINEER. (TYPICAL FOR FOUR SHOWN THIS STRUCTURE)

SPARE ¾" CONDUIT STUBS CAP W/ A.F.

CONTINUED ON DWG E-34

48 AF CR M 257 CR 257 258 C2 CR 48 AF

M 259 M 258

SCUM PUMP #3 PBI

CHLORINATORS

CHLORINE DETECTORS

4"#12 ¾"C TO MCP ALARM MODULE RM A-202 (EACH)

DUST FILTER LHS EXHAUST FAN

CL. 2M. HOIST

PLP-8E 20 M 256 256

WT DN 48" AF

120a M 155 155

55 WT 48" AF

48" AF WPS PBI

M 139 FLASH MIXER #3

FOR CONTINUATION OF CONDUITS IN THIS AREA SEE DWG E-34

EJ

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"= 1'-0"

N

EQUIPMENT STATUS INDICATING LIGHTS AT MAIN CONTROL PNL IN CONTROL BUILDING. TYPICAL FOR 30 LIGHTS SHOWN.

GRIT REMOVER — PASTE SLAKER MIXER — BIN DISCHARGE — ROTARY VALVE FEEDER — VOLUMETRIC FEEDER — LIME HANDLING SYSTEM #2 CONTROL PANEL (ALARM MODULE)

W CALL RUN G Y FAIL — AL HIGH LOW FAIL

SYSTEM ALARM POINTS AT MAIN CONTROL PANEL & CONTROL BLDG TYPICAL FOR 6 POINTS SHOWN

TO MCC III — TO MCC IX

TO DUST FILTER FAN LHS CONTROL PANEL

LIME HANDLING SYSTEM #2 CONTROL PANEL

LIME HANDLING SYSTEM #1 CONTROL PANEL

JUNCTION BOX

BIN DISCHARGE ACTUATOR — PASTE SLAKER — ROTARY VALVE FEEDER — GRIT REMOVER — VOLUMETRIC FEEDER

LEVEL SENSOR

SYSTEM ELECTRONIC CONTROL PANEL

VOID

LIME HANDLING SYSTEMS #2 & 1 DETAIL

NO SCALE

SEE WALLACE & TIERNAN SHOP DRAWINGS

KEY PLAN

REFER TO ELEVATION 4/E-7 ON DRAWING E-7 FOR TYPICAL MOUNTING DETAIL OF DISCONNECT SWITCH, JUNCTION BOX, PUSHBUTTON, ETC., AT DRIVE. ALL NEMA 4 ENCLOSURES, UNLESS OTHERWISE NOTED.

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1⅛" = 1'-0" 8 4 0 8 16

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MILLER · SIZING, P.C. consulting engineers
489 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD				JRC	4/4/83
	JRD	4/4/83	RAK			
3	PC-84 BELT PRESS WIRING				JLS	3/19/80
	RAK	2/80	JRC	RAK		
2	FOR CONSTRUCTION				SGB	2/24/78
	JOB	12/24/78	JRC	JRC		
	FOR APPROVALS				SGB	3/31/76
	JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR joel swanson — APPROVED S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
UPPER PLAN - SECTION #5 - POWER

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 39

219

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

NOTES:

Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

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BAY #2 · 1200 A AL BUS · NMPC CT'S & PT'S · TO POWER CO. METERING · BAY #1 · 52-1M · 0-400 A · KWH MD · CPT-1 (BAY #2) · CPT-2 (BAY #9) · 43 CPT · 83 CPT · DIST PANEL · BATT & CHGR · 43 MP · 83 MP · (BAY #6) · BAY #9 · BAY #10 · 52-2M · GEN "A" SOURCE · GEN "B" SOURCE · 1A · 2B · 4B · 5A · 1000VA CPT 480/120V · 3-1600/5 · MAIN "A" E1 · E1-2 3B "TIE" E1-2 · MAIN "B" E2 · 2-800/5 · 1-800/5 · 2-1200/5 · 1-1200/5 · 2-600/5 · 1-600/5 · 1C MCC IV · 2C MCC III · 4C MCC IV · 5C MCC VIII · 2D SPACE · 4D SPACE · 1600 A AL BUS (INSULATED) · 100% N BUS (INSULATED) · LINK · SENSOR · PROVISION FOR FUTURE EXTENSION · 3 LA'S STATION CLASS · BARBARA LANE SERVICE · ROUTE 370 SERVICE

BUS-1 (3 PH + G, 13.8 KV, 1200A, 60 HZ) · 52-T (BAY #5) · BUS-2 (3 PH + G, 13.8 KV, 1200A, 60 HZ) · 400/5A · 52-1F1 (BAY #3) · 52-1F2 (BAY #4) · 52-2F2 (BAY #7) · 52-2F1 (BAY #8) · 200/5A · 0-200A · TO TRANS-3 SEC. C.T.'S · TO TRANS-2 SEC. C.T.'S · TO TRANS-1 SEC. C.T.'S

TRANS-1 · TRANS-2 · TRANS-3 · TO CONTROL CT. (TRANS PANEL) · 2 KVA 480/120 · 3-480/120 · 1A · 2A · 3A · 5A · 6A · 7A · 9A · 10A · 11A · 1B-C MAIN 1 · 2B-C MAIN 2 · 3B-C TIE 2-3 · 11B-C MAIN 3 · 2-3000/5 · 1-3000/5 · 2-2500/5 · 1-2500/5 · 1-1600/5 · 2-1600/5 · GF 3W · 2D CAP BANK #2 · 5D CAP BANK #2 · 7D CAP BANK #2 · 10B CAP BANK #3 · 1B MCC VII · 2C MCC III · 3C HVU #2 · 5C MCC IX · 6D MCC II · 7B MCC VIII · 7C MCC VIII · 7D CAP BANK #2 · 9B SPACE · 9C SPACE · 9D MCC V · 10C MCC V · 10D MCC IV · 11C MCC IV · BLANK 1D · BLANK 11D · 3000A AL BUS (INSULATED) · N SENSOR · PROVISION FOR FUTURE EXTENSION

-REDRAWN PER INFORMATION PROVIDED BY SQUARE D CO. DRAWINGS D-12880B (15KV SWITCHGEAR), D-12880A (480 VOLT SWITCHGEAR), & D-12880 (480 VOLT EMERGENCY SWITCHGEAR)

MILLER ENGINEERS, P.C.
MECHANICAL · ELECTRICAL · STRUCTURAL
P.O. Box 126
Brewerton, N. Y. 13029

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	REVISED PER K. KAUFMAN BJN 5/22/90					
1	RECORD JRD 4/4/83		RAK		JRC	4/4/83

PROJECT SUPERVISOR _____ APPROVED _____

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

ONE LINE POWER DISTRIBUTION

Stearns & Wheler
ENGINEERS AND SCIENTISTS
CAZENOVIA, NEW YORK · DARIEN, CONNECTICUT

JOB NO. 577 · CONTRACT NO. 2 · SHEET E-40

PANEL SCHEDULE

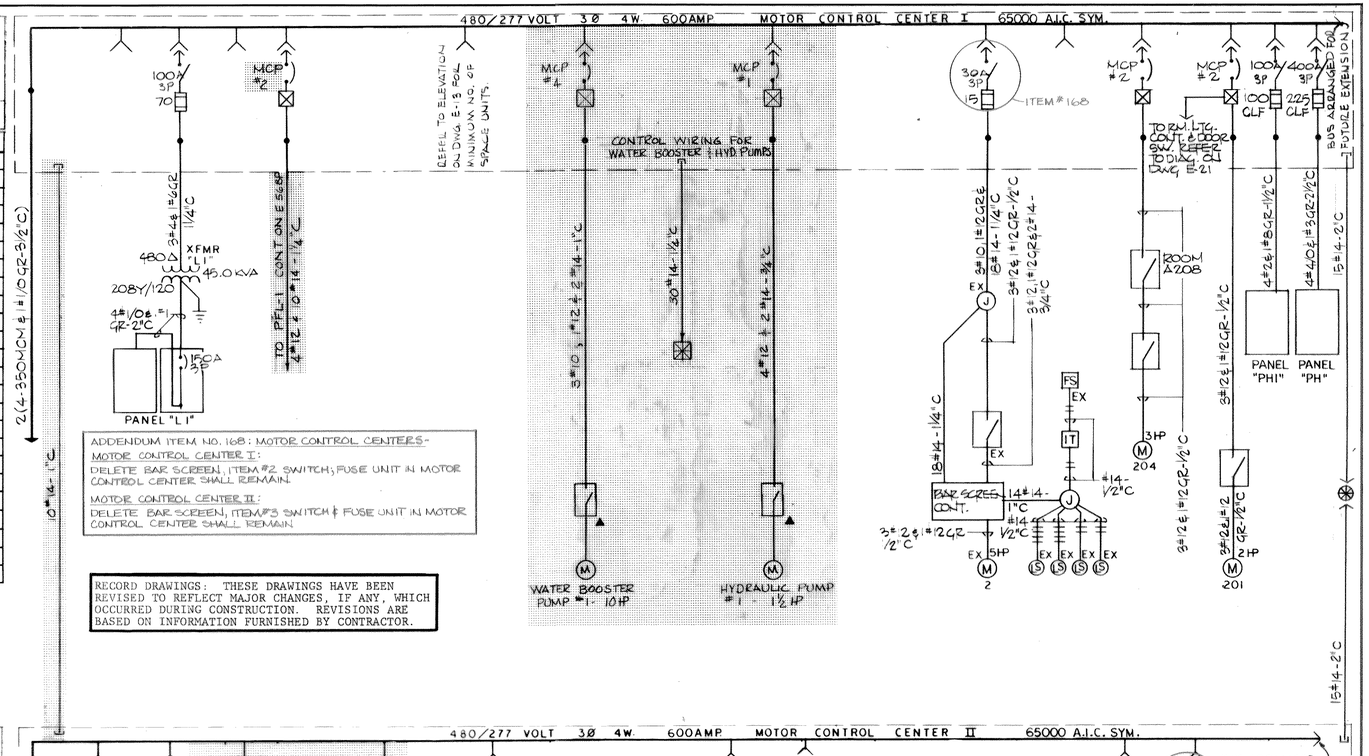
PANEL "PG" MOUNTING: SURFACE MAINS: 100 AMP
LOCATION A-144
POWER CHARACTERISTICS: 480/277V. 3Ø 4W.
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES:

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	B. CRANE	20	3	100A	144	
2	DHW HEATER	40	3		155	
3	TRANS. "LG"	100	3		142	
4	DURVEY AIR COMPRESSOR	100	3		144	
5	AFT. COOLER	20	3		144	
7-10	SPARES	20	3	100A		
6	BELT PRESS CONTROL PANEL	20	2	100 A	A-208	SYSTEM #2

PANEL SCHEDULE

PANEL "LG" MOUNTING: SURFACE MAINS: 225 AMP 225 MCP
LOCATION A-144
POWER CHARACTERISTICS: 208/120 V. 3Ø 4W. POLE SPACES: 7-1P
MINIMUM INTERRUPTING CAPACITY: 10,000

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
	OUTLETS	20	1	100A	144	
2	OUTLETS	20	1		46, 147, 149	GFCI
3	OUTLETS	20	1		153	
4	WELDER	50	2		144	
5	WELDER	50	2		44	
6	WELDER	50	2		155	
7	WELDER	50	2		155	
8	SPARE					
9	EX. FAN	5			142 ROOF	
10	SPARE					
11	EX FAN	15	1		142 ROOF	
12	POOL ROOM	20	2		53	
13	POOL ROOM	20	2		144	
14	KITCHENETTE	50	2		39	
15	KITCHENETTE	50	2		52	
16	OUTLETS	20	1		39, 40, 41	
17	SPARES	20	1		52	
18	LIGHTING	20	2		EXTERIOR	
19	SPARES	20	1		147	
20	SPACE	20	2			
21	SPACE	20	1			
22	SPACE	20	1			
23	SPACE	20	1			
24	SPACE	20	1			
25	SPACE	20	1	100A		



ADDENDUM ITEM NO. 168: MOTOR CONTROL CENTERS-
MOTOR CONTROL CENTER I:
DELETE BAR SCREEN, ITEM #2 SWITCH; FUSE UNIT IN MOTOR CONTROL CENTER SHALL REMAIN.
MOTOR CONTROL CENTER II:
DELETE BAR SCREEN, ITEM #3 SWITCH & FUSE UNIT IN MOTOR CONTROL CENTER SHALL REMAIN.

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PANEL SCHEDULE

PANEL "PGE" MOUNTING: SURFACE MAINS: 225AMP
LOCATION A-144
POWER CHARACTERISTICS: 480/277V. 3Ø 4W.
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	LH #3	30	3	100A	153	
2	LH #3	30	3		153	
3	LH #3	30	3		153	
4	LH #3	30	3		144	
5	LH #3	30	3		44	
6	LH #4	20	3		144	
7	LH #4	20	3		44	
8	LIGHTING	20	1		44	
9	LIGHTING	20	1		46, 151	
10	FIN. FAN	20	1		49, 152	
11	FIN. FAN	20	1		46, 151	
12	FIN. FAN	20	1		39	
13	FIN. FAN	20	1		141	
14	LH #2	20	3		138	
15	FIN. FAN	20	1		143	
16	LIGHTING	20	1		152, 153	
17	LIGHTING	20	1		41, 42, 43, 39	
18	TRANS. "LE"	40	3		142	
19, 20, 21	SPACE	20	1			
22, 23, 24	SPACE	20	1	100A		

PANEL SCHEDULE

PANEL "LGE" MOUNTING: SURFACE MAINS: 100 AMP
LOCATION A-144
POWER CHARACTERISTICS: 208/120 V. 3Ø 4W
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 10-1P

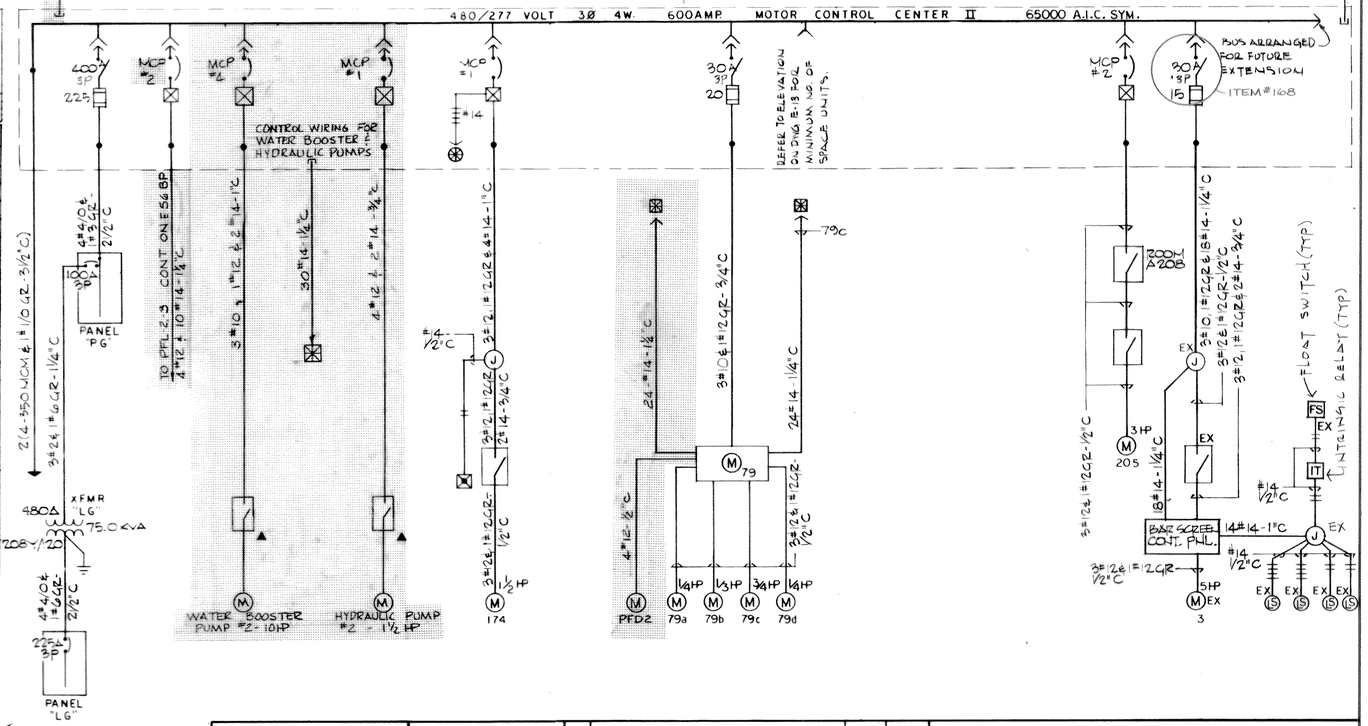
CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	OUTLETS	20	2	100A	43	SPLIT WIRED
2	OUTLETS	20	2		44	SPLIT WIRED
3	OUTLETS	20	2		44	SPLIT WIRED
4	OUTLETS	20	1		52	
5	OUTLETS	20	2		53	SPLIT WIRED
6	OUTLETS	20			39	
7	OUTLETS	20	1		41	
8	EX FAN	5	1		44	
9	EX FAN	15	1		53	
10	SPARE	20	2			
11	SPARE	20	2			
12	SPARE	20	1			
13	SPARE	20	1			
14	SPARE	20	1	100A		

PANEL SCHEDULE

PANEL "LE" (CONT.) MOUNTING: SURFACE MAINS: 100 AMP
LOCATION: A-203
POWER CHARACTERISTICS: 208/120 V. 3Ø 4W
MINIMUM INTERRUPTING CAPACITY: — 10,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
23	OUTLETS	20	1	100A	A113-A114, A-116	
24	OUTLETS	20	1		A-128	
25	INTERCOM	20	1		"	
26	INTERCOM	20	1		"	
27	EYE WASH HTR	20	1		A-208	
28	GAS COMP. DET.	20	1		"	
29	ULTRASONIC RELAY	20	1		"	
30	TRANSMITTER	20	1		"	
31	RECIEVER	20	1		"	
32	TRANSMITTER	20	1		"	
33	RECIEVER	20	1		"	
34	EYE WASH HTR	20	1		A-129	
35	EYE WASH HTR	20	1		A-07	
38	PT-2	20	1		CONT. DIV. STRUCT.	
39-49	SPARE	20	1	100A		

NOTE: ALL SPARE CIRCUITS TO BE PROVIDED WITH CIRCUIT BREAKERS AND WIRED TO TERMINAL BLOCKS IN PANEL. ALL SPARE CIRCUITS TO BE PROVIDED WITH CONDUIT AND WIRE TO NEAREST ACCESSIBLE PULL BOX.



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consulting engineers
490 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD				JRC	4/4/83
3	JRD	4/4/83	RAK			
	PC-84 BELT PRESS WIRING				JLS	3/19/80
2	RAK	2/80	JRC	RAK		
	FOR CONSTRUCTION				SGB	2/24/78
1	JOB	2/24/78	JRC	JRC		
	FOR APPROVALS				SGB	3/31/78
	TBA	3/31/78	JRC	TBA		

PROJECT SUPERVISOR: Joel Sussman APPROVED: S.G. Brigbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
RISER DIAGRAMS MCC I & II

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 41 BP

2320

PANEL SCHEDULE

PANEL "L1" MOUNTING: SURFACE MAINS: 225 AMP.
LOCATION: A-203
POWER CHARACTERISTICS: 208/120 V. 3Ø 4 W. 150 A 3P MCB & FEED THRU LUGS ONE SECT.
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 10-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	OUTLETS	20	2	100A	A-104	SPLITWIRED
2	OUTLETS	20	2	↓	A-135	SPLITWIRED
3	OUTLETS	20	2		A-101 & 134	SPLITWIRED
4	OUTLETS	20	2		A-124 & 131	SPLITWIRED
5	OUTLETS	20	2		A-129 & 132	SPLITWIRED
6	OUTLETS	20	1		A-111,112,117	
7	OUTLETS	20	1		A-112,117	
8	OUTLETS	20	1		A-111,112	
9	OUTLETS	20	1		A-128-127-118	
10	OUTLETS	20	1		A-128,118	
11	OUTLETS	20	1		A-126,129,124	G.F.C.I.
12	OUTLETS	20	1		A-121,120	
13	OUTLETS	20	1		A-122,120	
14	LIGHTING	20	1		A-135	
15	ROLL-UP DOOR	20	2		A-134	
16	OUTLETS	20	1		A-203	
17	OUTLETS	20	2		A-204	SPLITWIRED
18	OUTLETS	20	1		A-116	
19	WATER COOLER	20	1		A-121	
20	WATER COOLER	20	1		A-110	
21	OUTLETS	20	2		A-208	
22	OUTLETS	20	2		A-208	
23	WORK BENCH	20	1		A-208	
24	FAN #10	15	1		A-117	
25	FAN #4	15	1		A-116	
26	ROLL-UP DOOR	20	2		A-129	
27	OUTLETS	20	1		SITE PLAN	
28	OUTLETS	20	1		SITE PLAN	
29	OUTLETS	20	1	↓	SITE PLAN	
30	LIGHTING	20	2	100A	EXTERIOR	

PANEL SCHEDULE

PANEL "L1" (CONT) MOUNTING: SURFACE MAINS: 225 AMP.
LOCATION: A-203
POWER CHARACTERISTICS: 208/120 V. 3Ø 4W.
MINIMUM INTERRUPTING CAPACITY: —— POLE SPACES: ——

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
31	OUTLETS	20	2	100A	A-102	SPLITWIRED
32	SPARE	20	1	↓		
33	TIME CLOCK	20	1		A-122	
34	OUTLETS	20	2		A-105	SPLITWIRED
35	EX FAN	20	1		A-122	
36	SPARE	20	1			
37	TIME CLOCK	20	1		A-103	
38	SPARE	20	2			
39	SPARE	20	2			
40	SPARE	20	2			
41	SPARE	20	2			
42	SPARE	20	1			
43	SPARE	20	1			
44	SPARE	20	1			
45	LIQ PREV OIL RIVER TANK CP	20	1	100A	A-205	CONTROL POWER

PANEL SCHEDULE

PANEL "PHE" MOUNTING: SURFACE MAINS: 225 AMP
LOCATION: A-203
POWER CHARACTERISTICS: 480/277 V. 3Ø 4W. 1-3P
MINIMUM INTERRUPTING CAPACITY: 22,000 POLE SPACES: 1-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	CH #1	20	3	100A	A-119	
2	AIR CURTAIN	25	3	↓	A-111	
3	UH #2	20	3		A-116	
4	UH #2	20	3		A-116	
5	SPARE	20	3			
6	HEATING	20	1		A-120	
7	HEATING	20	1		A-118	
8	HEATING	20	1		A-112	
9	HEATING	20	1		A-117	
10	HEATING	20	1		A-202	
11	HEATING	20	1		A-202	
12	HEATING	20	1		A-203	
13	HEATING	20	1		A-204	
14	HEATING	20	1		A-206	
15	SPARE	20	1			
16	SPARE	20	1			
17	HEATING	20	1		A-24,126	
18	HEATING	20	1		A-05	
19	HEATING	20	1		A-01	
20	CH #4	20	3		A-207	
21	SPARE	20	3	↓		
22,23,24	SPARE	20	1	100A		

PANEL SCHEDULE

PANEL "PH" MOUNTING: SURFACE MAINS: 225 AMP
LOCATION: A 203
POWER CHARACTERISTICS: 480/277V 3Ø 4W.
MINIMUM INTERRUPTING CAPACITY: 22,000 POLE SPACES: 7-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	ACCU #1	40	3	60A	A-204 ROOF	
2	ACCU #2	40	3	↓	A-204 ROOF	
3	DHW HTR.	40	3		A-125	
4	ACS #2	40	3		A-205	
5	ACS #1	30	3		A-122	
6	UH #3	30	3		A-135	
8-12	SPARES	20	1	100A		
7	BELT PRESS CONTROL PANEL	20	2	100A	A-208	SYSTEM #1

PANEL SCHEDULE

PANEL "PH1" MOUNTING: SURFACE MAINS: 100 AMP
LOCATION: A-203
POWER CHARACTERISTICS: 480/277V 3Ø 4W.
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 4-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	RCH #1	20	1	100A	A-206	
2	RCH #2	20	1	↓	A-205	
3	DUMBWAITER	20	3		A-207	
4	FILTER RM HOIST	20	3		A-208	
5	PUMP RM HOIST	20	3		A-102	
6	SLUDGE RM HOIST	20	3		A-129	
7	DHW. HTR.	40	3		A-208	
8	ROADWAY LTS	20	1			
9	"	20	1			
10	"	20	1			
11	"	20	1	↓		
12-17	SPARES	20	1	100A		

PANEL SCHEDULE

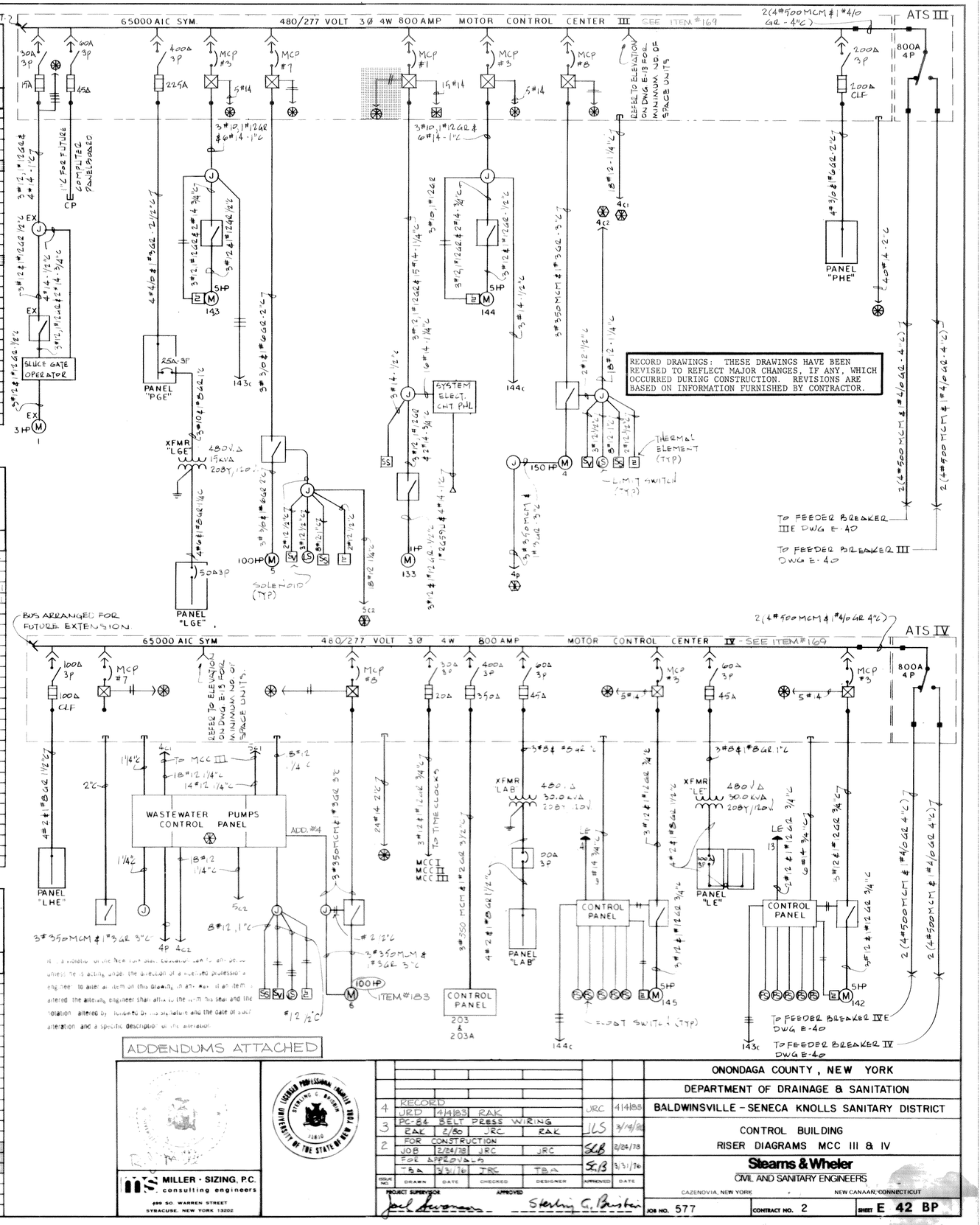
PANEL "LHE" MOUNTING: SURFACE MAINS: 225 AMP.
LOCATION: A-203
POWER CHARACTERISTICS: 480/277 V. 3Ø 4W.
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 15-1P.

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	EM & EXITS	20	1	100A		HANDLELOCK
2	LIGHTING	20	1	↓	A-01 & 04	
3	LIGHTING	20	1		A-02	
4	LIGHTING	20	1		A-01 & 134	INTERLOCK W/FAN #1
5	LIGHTING	20	1		A-34, 32, 31, 29	INTERLOCK W/FAN #1
6	LIGHTING	20	1		A-24, 30, 37	
7	LIGHTING	20	1		A-21, 127	
8	LIGHTING	20	1		A-118	
9	LIGHTING	20	1		A-117, 18	
10	LIGHTING	20	1		A-118, 116	
11	LIGHTING	20	1		A-120	
12	LIGHTING	20	1		A-22, 24, 26 & 45	
13	SPARE	20	1			
14	SPARE	20	1			
15	SPARE	20	1			
16	LIGHTING	20	1		A-201, 205, 206	
17	LIGHTING	20	1		A-202, 203, 204	
18	LIGHTING	20	1		A-135	
19	LIGHTING	20	1		A-208, 209	
20	LIGHTING	20	1		A-205	
21	LIGHTING	20	1		A-208	
22	EM & EXITS	20	1			
23	LIGHTING	20	1		A-05	
24	SPARE	20	1			
25	SPARE	20	1			
26	SPARE	20	1			
27	SPARE	20	1	100A		

PANEL SCHEDULE

PANEL "LE" MOUNTING: SURFACE MAINS: 100 AMP.
LOCATION: A-203
POWER CHARACTERISTICS: 208/120 V. 3Ø 4W. 100A 3P MCB & FEED THRU LUGS ONE SECTION
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 11-1P.

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	MCP	20	1	100A	A-202	
2	MCP	20	1		A-202	
3	MCP	20	1		A-202	
4	MCP	20	1		A-202	
5	MCP	20	1		A-202	
6	MCP	20	1		A-202	
7	MCP	20	1		A-202	
8	MCP	20	1		A-202	
9	MCP	20	1		A-202	
10	WWSEQCP	20	1		A-135	
11	WWSEQCP	20	1		A-135	
12	LIGHTING	20	1		A-118, A-119, A-115	HANDLE-LOCK
13	SP CNT PNL	20	1		A-02	HANDLELOCK
14	SP CNT PNL	20	1		A-07	HANDLELOCK
15	INFLUENT MH	20	1		SITE PLAN	
16	MARINE SAN	20	1		SITE PLAN	
17	SPARE	20	1			
18	SPARE	20	1			
19	SPARE	20	1			
20	OUTLETS	20	2		A-116	SPLIT WIRED
21	T.C. PANEL	20	1		A-122	
22	OUTLETS	20	1	100A	A-121	
CONTINUED ON		DWG	E-41			



ADDENDUMS ATTACHED

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD JRD 4/4/83		RAK	JRC		4/4/83
3	PC-84 BELT PRESS WIRING EAL 2/80		JRC	RAK	LLS	3/14/80
2	FOR CONSTRUCTION JOB 2/24/78		JRC	JRC	SLB	2/24/78
1	FOR APPROVALS TBA 3/31/76		TBA		SLB	3/31/76

PROJECT SUPERVISOR: Joel Swanson APPROVED: Sterling C. Brister

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
RISER DIAGRAMS MCC III & IV

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK · NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 42 BP

321

MOTOR CONTROL CENTER V

480 VOLT 3Ø 4W 1200 AMPS 65000 A.I.C. SYM.

3 SETS (4" 500MCM & 1" 4/0 GR-4"C.)

DS-V

1200A 3P

3 SETS (4" 500MCM & 1" 4/0 GR-4" C.)

TO MAIN SECONDARY SWITCHGEAR - FEEDER BREAKER V REFER TO DRAWING E-40

ADDENDUM ITEM NO. 170: MOTOR CONTROL CENTER VI: DELETE ITEM #10 GRIT CHAMBER BLOWER #2 INCLUDING STARTER. ADD ITEM #94 LOX EVAPORATOR, PROVIDE SWITCH & FUSE UNIT. REFER TO DWG. E-46 FOR DESCRIPTION OF EQUIPMENT & TO DWG. E-45 FOR CIRCUITRY. ITEM #105, THICKENER MAKE-UP PUMP #1; ADD SOLENOID VALVE BY CONTACTOR #1. PROVIDE 2 #14 - 1/2"C FROM SOLENOID VALVE TO JUNCTION BOX. CHANGE CIRCUITRY FROM JUNCTION BOX TO MOTOR CONTROL CENTER TO READ 16 #14 - 1"C.

REFER TO ELEVATION ON DWG E-26 FOR MINIMUM NO OF SPACE UNITS

TIME CLOCK POWER SUPPLY.

HVU #3 CONTROLLER

HVU #3 HTRS

REFER TO ELECTRIC EQUIPMENT & CONTROL SCHEDULE ON DWG E-47 FOR QUANTITY OF CONDUCTORS BETWEEN CONTROLLER & HEATERS

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MOTOR CONTROL CENTER VI - SEE ITEM #170

480 VOLT 3Ø 4W 1200 AMPS 65000 A.I.C. SYM.

BUS ARRANGED FOR FUTURE EXTENSION

3 SETS (4" 500MCM & 1" 4/0 GR-4"C.)

DS-VI

1200A 3P

3 SETS (4" 500MCM & 1" 4/0 GR-4" C.)

TO MAIN SECONDARY SWITCHGEAR - FEEDER BREAKER VI REFER TO DRAWING E-40.

REFER TO ELEVATION ON DWG E-26 FOR MINIMUM NO OF SPACE UNITS

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing, in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation 'altered by' followed by his signature and the date of such alteration, and a specific description of the alteration.

MILLER · SIZING, P.C.
consulting engineers
480 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	JRD	4/1/83	RAK		JRC	4/1/83
3	PC-84 BELT PRESS WIRING				JLS	3/19/80
	RAK	2/80	JRC	RAK		
2	FOR CONSTRUCTION				SLB	2/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				SLB	3/31/76
	TBA	3/31/76	JRC	TBA		

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S. C. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

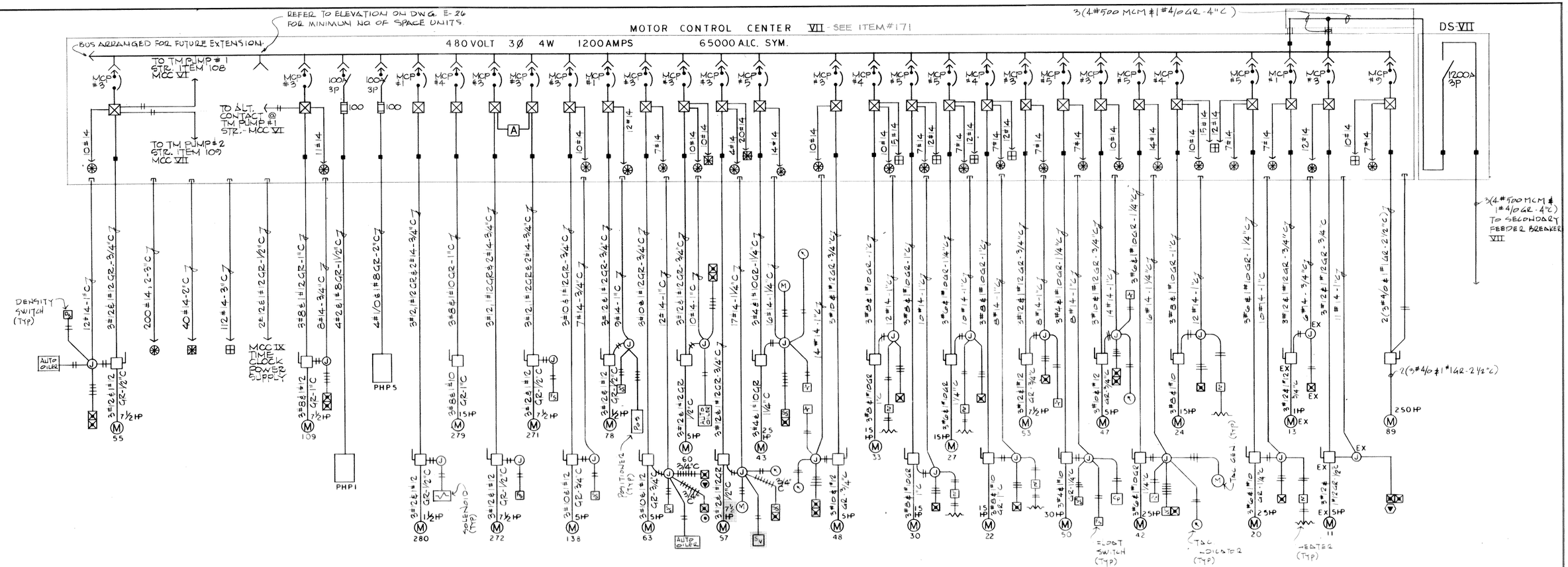
PROCESS STRUCTURE
RISER DIAGRAMS MCC V & VI

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 43 BP

MOTOR CONTROL CENTER VII - SEE ITEM #171

480 VOLT 3Ø 4W 1200 AMPS 65000 A.I.C. SYM.



PANEL SCHEDULE

PANEL PHP-1 MOUNTING: SURFACE MAINS: 100AMP
LOCATION: GAL #1
POWER CHARACTERISTICS: 480/277 POLE SPACES: 8-1P
MINIMUM INTERRUPTING CAPACITY: 10,000

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	CLAM SHELL HOIST	30	3P	100A	UPPER PROCESS	
2	UNIT HTR #6	20	3P		GAL #1	
3	UNIT HTR #1	25	3P		GAL #2	
4	GRIT BLDG HTRS	20	1P		GRIT BLDG	
5	"	20	1P		"	
6	"	20	1P		"	
7	"	20	1P		"	
8	D.H.W. HTR	20	3P		GAL #1	
9-11	SPARES	20	1P			
12-14	SPARES	20	3P	100A		

PANEL SCHEDULE

PANEL PHP-1E MOUNTING: SURFACE MAINS: 100AMP
LOCATION: GAL #1
POWER CHARACTERISTICS: 480-277
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES:

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	GRIT BLDG LTG	20	1	100A	GRIT BLDG	
2	GAL #1 & #2 LTG	20	1		GAL #1 & #2	
3	"	20	1		"	
4	TRANS. TP-1	15	3		GAL #1	
5-7	SPARES	20	1			
8-10	SPARES	20	3	100A		

PANEL SCHEDULE

PANEL PHP-5 MOUNTING: SURFACE MAINS: 100AMP
LOCATION: GAL #5
POWER CHARACTERISTICS: 480/277
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 8-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	UNIT HTR #1	25	3	100A	GAL #2	
2	UNIT HTR #6	20	3		GAL #6	
3	UNIT HTR #6	20	3		GAL #6	
4	UNIT HTR #4	20	3		GAL #5	
5	UNIT HTR #1	20	3		GAL #5	
6	GAL #5 HOIST	20	3		ENT. STRUCT	
7	UNIT HTR #2	20	3		GAL #7	
8-10	SPARES	20	3			
11-14	SPARES	20	1	100A		

PANEL SCHEDULE

PANEL PHP-5E MOUNTING: SURFACE MAINS: 100AMP
LOCATION: GAL #5
POWER CHARACTERISTICS: 480-277
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	FAN #13	15	3	100A	ENT. STRUCT. GAL #6	
2	FAN #19	15	3		ENT. STRUCT. GAL #6	
3	TRANS TP-5	25	3		GAL #5	
4-5	SPARES	20	3			
6-10	SPARES	20	1	100A		

PANEL SCHEDULE

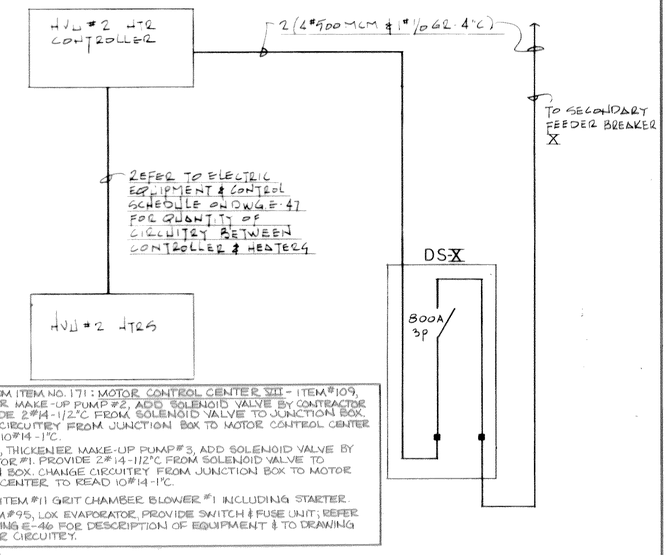
PANEL PHP-8 MOUNTING: SURFACE MAINS: 100AMP
LOCATION: GAL #8
POWER CHARACTERISTICS: 480/277
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	UNIT HTR #2	20	3	100A	GAL #7	
2	UNIT HTR #1	25	3		GAL #8	
3	D.H.W. HTR	20	3		GAL #8	
4	EL EM HOIST	20	3		LIME BLDG	
5	UNIT HTR #4	20	3		GAL #8	
6	UPPER LEVEL LTG	20	1		UPPER PROCESS STRUCT.	
7-8	SPARES	20	3			
9-10	SPARES	20	1	100A		

PANEL SCHEDULE

PANEL PHP-CR MOUNTING: SURFACE MAINS: 225AMP
LOCATION: PROCESS BLDG. CONTROL RM
POWER CHARACTERISTICS: 480/277
MINIMUM INTERRUPTING CAPACITY: 22,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	UNIT HTR #1	25	3	100A	GAL #2	
2	UNIT HTR #2	20	3		ELEC RM	
3	UNIT HTR #3	20	3		O2 GEN RM	
4	UNIT HTR #4	20	3		O2 GEN RM	
5	UNIT HTR #4	20	3		O2 GEN RM	
6	UNIT HTR #2	20	3		GAL #3	
7	GAL #2 HOIST	20	3		GAL #2	
8	O2 EM HOIST	30	3		O2 GEN RM	
9	FAN #18	20	3		MECH RM	
10	FAN #20	15	3		MECH RM ROOF	
11	SPARE	20	3			
12	HVU #3 FAN	20	3		GAL #2	
13	UNIT HTR #2	20	3		MECH RM	
14	UNIT HTR #2	20	3		MECH RM	
15	UNIT HTR #1	25	3		GAL #3	
16	CH #3	20	3		ENT STAIR	
17	UPPER LEVEL LTG	20	1		UPPER PROCESS STRUCT.	
18	"	20	1		"	
19	"	20	1		"	
20	"	20	1		"	
21	"	20	1		"	
22-23	SPARE	20	3			
24-28	SPARE	20	1	100A		



ADDENDUM ITEM NO. 171: MOTOR CONTROL CENTER VII - ITEM #109, THICKENER MAKE-UP PUMP #2, ADD SOLENOID VALVE BY CONTRACTOR #1. PROVIDE 2#14-1/2"C FROM SOLENOID VALVE TO JUNCTION BOX. CHANGE CIRCUITRY FROM JUNCTION BOX TO MOTOR CONTROL CENTER TO READ 10#14-1"C.

ITEM #50, THICKENER MAKE-UP PUMP #3, ADD SOLENOID VALVE BY CONTRACTOR #1. PROVIDE 2#14-1/2"C FROM SOLENOID VALVE TO JUNCTION BOX. CHANGE CIRCUITRY FROM JUNCTION BOX TO MOTOR CONTROL CENTER TO READ 10#14-1"C.

DELETE ITEM #11 GRIT CHAMBER BLOWER #1 INCLUDING STARTER.

ADD ITEM #95, LOX EVAPORATOR, PROVIDE SWITCH & FUSE UNIT; REFER TO DRAWING E-46 FOR DESCRIPTION OF EQUIPMENT & TO DRAWING E-45 FOR CIRCUITRY.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD				JRC	4/4/83
	JRD	4/4/83	RAK			
3	PC-84 BELT PRESS WIRING				JLS	3/1/80
	RAK	2/80	JRC	RAK		
2	FOR CONSTRUCTION				SGB	8/24/78
	JOB	8/24/78	JRC	JRC		
1	FOR APPROVAL				SGB	3/31/78
	TBA	3/31/78	JRC	TBA		

PROJECT SUPERVISOR: Joel Krasner
APPROVED: S.C. Brisben

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
RISER DIAGRAM MCC VII

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 44 BP

3233

TIME CLOCK POWER SUPPLY

MCC IX

BUS ARRANGED FOR FUTURE EXTENSION.

480 VOLT 3Ø 4W 600AMP 65000AIC MOTOR CONTROL CENTER VIII SEE ITEM #172

ATS-VIII

DS-VIII

800A 3P

800A-4P AUTOMATIC TRANSFER SW.

TO MAIN SEC. SWGR. FEEDER BK'R. VIII, REFER TO DWG. E-40

TO EMERGENCY SWITCHGEAR FEEDER BK'R. E-VIII, REFER TO DWG. E-40.

DS-VIIIE

TO MAIN SECONDARY SWITCHGEAR FEEDER BK'R. IX, REFER TO DWG. E-40

ATS-IX

DS-IX

TO EM GEAR

REFER TO ELEVATION ON DWG. E-26 FOR MINIMUM NO. OF SPACE UNITS.

PHP-5E

PHP-1E

PLP-5E

PLP-1E

PHP-8E

PLP-8E

PHP-CRE

PLP-CRE

AU

G

H

F

NOTE 1

TORQUE SWITCH (TYP)

POSITIONER (TYP)

LIMIT SWITCH (TYP)

DENSITY SWITCH (TYP)

THERMAL ELEMENT (TYP)

SOLENOID (TYP)

ADDENDUM ITEM NO. 172:

MOTOR CONTROL VIII - DELETE ITEM #94, LOX EVAPORATOR INCLUDING SWITCH AND FUSE UNIT.
- ADD ITEM #10, GRIT CHAMBER BLOWER #2. REFER TO DRAWING E-46 FOR DESCRIPTION OF EQUIPMENT AND TO DRAWING E-43 FOR CIRCUITRY.

MOTOR CONTROL CENTER IX - DELETE ITEM #95, LOX EVAPORATOR INCLUDING SWITCH AND FUSE UNIT.
- ADD ITEM #11, GRIT CHAMBER BLOWER #2. REFER TO DRAWING E-46 FOR DESCRIPTION OF EQUIPMENT AND TO DRAWING E-44 FOR CIRCUITRY.

NOTE 1: CURRENT TRANSDUCER (T) - REFER TO RAW SEWAGE METERING DIAGRAM ON DWG. E-54.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

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MILLER · SIZING, P.C.
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499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
2	JRD	4/4/83	RAK		SCB	2/24/76
	FOR CONSTRUCTION					
	JOB	2/24/76	JRC	JRC	SCB	3/31/76
	FOR APPROVALS					
	JRD	3/31/76	JRC	TBA	SCB	3/31/76

PROJECT SUPERVISOR: Jack Swan

APPROVED: S.C. Brisbin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE

RISER DIAGRAMS MCC VIII & IX

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 45

- ADDENDUM ITEMS ATTACHED

MOTOR CONTROL CENTER SCHEDULE

SQUARE D CO CONNECTION DIAGRAM NO. = *

MOT. EQUIP NO.	NAME	MOTOR H.P.	MOTOR ENCL.	MOTOR LOCATION	STARTER SIZE	STARTER TYPE	STARTER BR. CT. PROT.	STARTER MODIFICATIONS	STARTER LOCATION	INTERN DIAG.	CONT'L WIRING DIAG.
I	MOTOR CONTROL CENTER I								MCC I		
2	BAR SCREEN	5	EX	A-134	30	FVNR	15	17-A12-06693-3A10	MCC II	B	1
73	POLY FEED LIQUID PUMP #1 (PFL-1)	2	TEFC	A-07	1	FVNR	MCP-2	4-9-19-A12-06693-1A8		A	5A
201	FAN #1	2	EX	A-134	1	FVNR	MCP-2	5-22-24-25-26-A12-06693-1A4		A	NOTE #1
204	FAN #2	3		A-208	1	FVNR	MCP-2	5-22-24-25-26-A12-06693-1A4		A	NOTE #1
	PANELBOARD "PH"	-	-	A-203	400	FUSW	300	NONE-A30318-474		-	-
	TRANSFORMER "L-1"	-	-	A-203	100	FUSW	70	NONE-A30318-489	MCC I	-	-
	WATER BOOSTER PUMP #1	10	-	A-208	1	FVNR	MCP-4	4-9-10-19-A12-06693-1A6	"	A	(SEE E 56BP)
	HYDRAULIC PUMP #1	1½	-	A-208	1	FVNR	MCP-1	3-9-19-A12-06693-1A7	"	A	
II	MOTOR CONTROL CENTER II								MCC II		
3	BAR SCREEN	5	EX	A-134	30	FUSW	15	17-A12-06693-4A7	MCC IV	B	1
74	POLY FEED LIQUID PUMP #2,3 (PFL-2,3)	2	TEFC	A-07	1	FVNR	MCP-2	4-9-19-A30-318-497		A	5B
79	POLYMER FEED SYS #1			A-07	30	FUSW	20	NONE-A12-06693-2A4		-	-
174	MARINE SANITARY WASTE PUMP	1½		SITE PLAN	1	FVNR	MCP-1	3-9-19-A12-06693-2A6		A	53
205	FAN #3	3		A-208	1	FVNR	MCP-2	5-22-24-25-26-A12-06693-2A8		A	NOTE #1
	PANELBOARD "PG"			A-144	200	FUSW		NONE-A30318-473	MCC II	-	-
	WATER BOOSTER PUMP #2	10	-	A-208	1	FVNR	MCP-4	4-9-10-19-A12-06693-2A4	"	A	(SEE E 56BP)
	HYDRAULIC PUMP #2	1½	-	A-208	1	FVNR	MCP-1	3-9-19-A12-06693-2A7	"	A	
III	MOTOR CONTROL CENTER III								MCC III		
1	SLUICE GATE OPERATOR	3	EX	A-134	30	FUSW	15	2-9-15-A12-06693-3A9		-	8
4	RAW WASTEWATER PUMP #1	150	ODP	A-02	5	FVNR	MCP-8	6-9-16-19-A12-06693-3A7		A	9
5	RAW WASTEWATER PUMP #2	100	ODP	A-02	5	FVNR	MCP-8	6-9-16-19-A12-06693-3A6		A	9
133	LIQUID POLY DIL. MIXER	1	TE	A-07	1	FVMS	MCP-1	4-9-19-A12-06693-3A8		C	15A
143	DRY WELL SUMP PUMP	5	SUB	A-02	1	FVNR	MCP-3	4-9-19-A12-06693-3A5		A	14
144	CHEMICAL SUMP PUMP	5	SUB	A-07	1	FVNR	MCP-3	4-9-19-A12-06693-3A4		A	14
	PANELBOARD "PHE"		-	A-203	200	FUSW		NONE-A30318-498		-	-
	PANELBOARD "PGE"		-	A-144	200	FUSW		NONE-A30318-474	MCC III	-	-
IV	MOTOR CONTROL CENTER IV								MCC IV		
6	RAW WASTEWATER PUMP #3	150	ODP	A-02	4	FVNR	MCP-7	7-9-16-19-A12-06693-4A5		A	11
7	RAW WASTEWATER PUMP #4	100	ODP	A-02	4	FVNR	MCP-7	7-9-16-19 FUTURE-A12-06693-4A6		A	11
142	DRY WELL SUMP PUMP	5	SUB	A-02	1	FVNR	MCP-3	4-9-19-A12-06693-4A4		A	14
145	CHEMICAL SUMP PUMP	5	SUB	A-07	1	FVNR	MCP-3	4-9-19-A12-06693-4A4		A	14
203	HVU #1 FANS	20@2 @3		A-209	400	FUSW	350	A30318-473			
203A	HVU #1 HEAT COIL	150	-	A-209							
	TRANSFORMER "LE"		-	A-203	100	FUSW		NONE-A-30318-498		-	-
	TRANSFORMER "LAB"		-	A-203	100	FUSW		NONE-A-30318-498		-	-
	TIME CLOCKS	-	-	A-203	30	FUSW	20	NONE-A-30318-498		-	-
	PANELBOARD "LHE"		-	A-203	100	FUSW	100	A30318-489	MCC IV		

MOT. EQUIP NO.	NAME	MOTOR H.P.	MOTOR ENCL.	MOTOR LOCATION	STARTER SIZE	STARTER TYPE	STARTER BR. CT. PROT.	STARTER MODIFICATIONS	STARTER LOCATION	INTERN DIAG.	CONT'L WIRING DIAG.
V	MOTOR CONTROL CENTER								MCC V		
28	AERATOR 2ND STAGE 3-1	25	TEFC	DWG E-37	2	FVNR	MCP-5	5-9-15-15-17-22-A12-06693-5A14		A	18A
31	AERATOR 2ND STAGE 3-2	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-17-22-A12-06693-5A14		A	18A
34	AERATOR 2ND STAGE 3-3	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-17-20-22-A12-06693-5A16		A	18B
40	RAS PUMP #3	25	OSP	DWG E-31	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-5A17		A	20
41	RAS PUMP #4	25	OSP	DWG E-30	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-5A17		A	20
46	WAS PUMP #3	5	OSP	DWG E-30	1	FVNR	MCP-3	5-9-16-17-19-20-A12-06693-5A11		A	23
49	RAS PUMP #7	25	OSP	DWG E-32	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-5A17		A	20
51	PRIMARY SLUDGE PUMP #1	7½	OSP	DWG E-22	1	FVNR	MCP-3	3-9-16-17-19-A12-06693-5A6		A	19
58	T.S. PUMP #3	5		DWG E-23	1	FVNR	MCP-3	5-9-16-17-22-20-A12-06693-5A8		A	48
62	SECONDARY SCUM PUMP #2	5	OSP	DWG E-34	1	FVNR	MCP-3	3-9-16-17-19-A12-06693-5A1		A	24
76	LIME SLURRY FEED PUMP #1	½	TEFC	DWG E-34	1	FVNR	MCP-1	3-9-17-19-A12-06693-5A9		A	25
100	DIGESTER NO 2 AERATOR	75		DWG E-35	4	FVNR	MCP-7	5-9-15-15-17-22-A12-06693-5A14		A	18A
122	DIGESTER N°3 MIXER N°3	20		DWG E-35	2	FVNR	MCP-5	7-9-15-19-20-15-A12-06693-5A10		A	57
125	DIGESTER N°3 MIXER N°4	20		DWG E-35	2	FVNR	MCP-5	7-9-15-19-20-15-A12-06693-5A10		A	57
126	DIGESTER N°3 MIXER N°2	20		DWG E-35	2	FVNR	MCP-5	7-9-15-19-20-15-A12-06693-5A10		A	57
130	POLYMER FEED SYSTEM #2			DWG E-23	30	FUSW	20	NONE-A30318-498		-	-
136	FLASH MIXER #1-A	3	TEFC	DWG E-39	1	FVNR	MCP-2	2-9-17-19-A12-06693-5A12		A	26
281	WATER COOLER FAN #3	15		DWG E-27	2	FVNR	MCP-4	5-22-24-25-26-A12-06693-5A5		A	NOTE #1
282	WATER COOLER PUMP #3	1½		DWG E-27	1	FVNR	MCP-1	5-22-24-25-26-A12-06693-5A5		A	NOTE #1
289	COOLANT PUMP #5	7½		DWG E-27	1	FVNR	MCP-3	5-17-21-22-24-25-26-A12-06693-5A3		A	NOTE #1
290	COOLANT PUMP #6	7½		DWG E-27	1	FVNR	MCP-3	5-17-22-24-25-26-A12-06693-5A11		A	NOTE #1
	PANELBOARD "PHP-B" HVU #3 COIL			DWG E-34	100	FUSW	100	NONE-A30318-489		-	-
				DWG E-24	200	FUSW	175	NONE-A30318-498			
91	FEED AIR COMP N°3	250		DWG E-28	6	RVNR	MCP-9	NOTE #1-B12-06693-5A18	MCC V		NOTE #1
VI	MOTOR CONTROL CENTER								MCC VI		
0	GRIT CHAMBER BLOWER #2	5	EXP	DWG E-35	1	FVNR	MCP-3	3-9-17-23-19-A12-06693-8A12 MCC VIII		A	17
12	GRIT RAKE CLASSIFIER #1	1	EXP	DWG E-35	1	FVNR	MCP-1	3-9-19-A12-06693-6A11		A	16
19	AERATOR 1ST STAGE 1-1	25	TEFC	DWG E-37	2	FVNR	MCP-5	5-9-15-15-22-17-A12-06693-6A19		A	18A
21	AERATOR 1ST STAGE 1-2	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-22-17-A12-06693-6A19		A	18A
23	AERATOR 1ST STAGE 1-3	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-17-20-22-A12-06693-6A20		A	18B
26	AERATOR 2ND STAGE 1-1	25	TEFC	DWG E-37	2	FVNR	MCP-5	5-9-15-15-22-17-A12-06693-6A19		A	18A
29	AERATOR 2ND STAGE 1-2	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-22-17-A12-06693-6A19		A	18A
32	AERATOR 2ND STAGE 1-3	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-17-20-22-A12-06693-6A20		A	18B
38	RAS PUMP #1	25	OSP	DWG E-31	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-6A18		A	20
39	RAS PUMP #2	25	OSP	DWG E-31	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-6A18		A	20
44	WAS PUMP #1	5	OSP	DWG E-31	1	FVNR	MCP-3	5-9-17-6-19-20-A12-06693-6A5		A	23
45	WAS PUMP #2	5	OSP	DWG E-31	1	FVNR	MCP-3	5-9-16-17-19-20-A12-06693-6A5		A	23
52	PRIMARY SLUDGE PUMP #2	7½	OSP	DWG E-22	1	FVNR	MCP-3	3-9-16-17-19-A12-06693-6A6		A	19
54	T.S. PUMP #1	7½		DWG E-24	1	FVNR	MCP-3	7-9-10-11-15-16-17-20-A12-06693-6A12		A	22
56	D.S. PUMP #1	7½		DWG E-22	1	FVNR	MCP-3	5-9-17-19-16-A12-06693-6A7		A	47A
59	T.S. PUMP #4	7½		DWG E-23	1	FVNR	MCP-3	5-9-16-17-20-22-A12-06693-6A8		A	51A
61	PRI SCUM PUMP #1	5	OSP	DWG E-23	1	FVNR	MCP-3	5-9-16-17-22-A12-06693-6A15		A	21
77	LIME SLUDGE FEED PUMP #2	½	TEFC	DWG E-34	1	FVNR	MCP-1	3-9-17-9-A12-06693-6A12		A	25
99	DIGESTER AERATOR #1	75		DWG E-35	4	FVNR	MCP-7	5-9-15-15-17-22-A12-06693-6A19		A	18A
108	THICKNER MAKE-UP PUMP #1	7½		DWG E-34	1	FVNR	MCP-3	5-9-10-15-15-19-21-A12-06693-6A15		A	50
123	DIGESTER N°3-MIXER N°6	20		DWG E-35	2	FVNR	MCP-5	7-9-15-19-20-15-A12-06693-6A21		A	57
124	DIGESTER N°3-MIXER N°4	20		DWG E-35	2	FVNR	MCP-5	7-9-15-19-20-15-A12-06693-6A21		A	57
127	DIGESTER N°3-MIXER N°5	20		DWG E-35	2	FVNR	MCP-5	7-9-15-19-20-15-A12-06693-6A21		A	57
137	FLASH MIXER #1-B	3	TEFC	DWG E-39	1	FVNR	MCP-2	2-9-19-17-A12-06693-6A14		A	26
269	COOLANT PUMP #1	7½		DWG E-27	1	FVNR	MCP-3	5-17-21-22-24-25-26-A12-06693-6A9		A	NOTE #1
270	COOLANT PUMP #2	7½		DWG E-27	1	FVNR	MCP-3	5-17-21-22-24-25-26-A12-06693-6A10		A	NOTE #1
277	WATER COOLER FAN #1	15		DWG E-27	2	FVNR	MCP-4	5-22-24-25-26-A12-06693-6A16		A	NOTE #1
278	WATER COOLER PUMP #1	1½		DWG E-27	1	FVNR	MCP-1	5-22-24-25-26-A12-06693-6A16		A	NOTE #1
	PANELBOARD "PHP-CR"			DWG E-25	200	FUSW		NONE-A30318-498		-	-
90	FEED AIR COMP N°2	250		DWG E-28	6	RVNR	MCP-9	NOTE #1-C-12-06693-6A17	MCC VI		NOTE #1
VII	MOTOR CONTROL CENTER								MCC VII		
11	GRIT CHAMBER BLOWER #1	5	EXP	DWG E-35	1	FVNR	MCP-3	3-9-17-19-23-A12-06693-9A9 MCC IX		A	27
13	GRIT RAKE CLASSIFIER #2	1	EXP	DWG E-35	1	FVNR	MCP-1	3-9-19-A12-06693-7A13 MCC VIII		A	28
20	AERATOR 1ST STAGE 2-1	25	TEFC	DWG E-37	2	FVNR	MCP-5	5-9-17-22-15-15-B12-06693-7A17		A	29A
22	AERATOR 1ST STAGE 2-2	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-17-22-15-15-B12-06693-7A17		A	29A
24	AERATOR 1ST STAGE 2-3	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-17-22-15-15-20-B12-06693-7A19	MCC VII	A	29B

MOT. EQUIP NO.	NAME	MOTOR H.P.	MOTOR ENCL.	MOTOR LOCATION	STARTER SIZE	STARTER TYPE	STARTER BR. CT. PROT.	STARTER MODIFICATIONS	STARTER LOCATION	INTERN DIAG.	CONT'L WIRING DIAG.
27	AERATOR 2ND STAGE 2-1	25	TEFC	DWG E-37	2	FVNR	MCP-5	5-9-15-15-17-22-7A17	MCC VII	A	29A
30	AERATOR 2ND STAGE 2-2	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-17-22-B12-06693-7A17		A	29A
33	AERATOR 2ND STAGE 2-3	15	TEFC	DWG E-37	2	FVNR	MCP-4	5-9-15-15-17-20-22-B12-06693-7A19		A	29B
42	RAS PUMP #5	25	OSP	DWG E-30	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-7A18		A	30
43	RAS PUMP #6	25	OSP	DWG E-32	2	FVNR	MCP-5	5-9-16-17-19-15-A12-06693-7A18		A	30
47	WAS PUMP #4	5	OSP	DWG E-32	1	FVNR	MCP-3	5-9-16-17-19-20-A12-06693-7A14		A	33
48	WAS PUMP #5	5	OSP	DWG E-32	1	FVNR	MCP-3	5-9-16-17-19-20-A12-06693-7A14		A	33
50	THICKNER MAKE-UP PUMP #3	30		DWG E-33	3	FVNR	MCP-5	5-9-17-19-A12-06693-7A20		A	46
53	PRIMARY SLUDGE PUMP #3	7½	OSP	DWG E-22	1	FVNR	MCP-5	3-9-17-19-16-A12-06693-7A12		A	31
55	T.S. PUMP #2	7½		DWG E-24	1	FVNR	MCP-3	7-9-10-11-15-17-20-16-B12-06693-7A15		A	34
57	D.S. PUMP #2	7½		DWG E-22	1	FVNR	MCP-3	5-9-16-17-19-A12-06693-7A11		A	47A
60	T.S. PUMP #5	5		DWG E-23	1	FVNR	MCP-3	5-9-16-17-20-22-A12-06693-7A9		A	56
63	CL_2 TANK SCUM PUMP #3	5	OSP	DWG E-34	1	FVNR	MCP-3	3-9-16-17-19-A12-06693-7A10		A	32
78	LIME SLURRY FEED PUMP #3	½	TEFC	DWG E-34	1	FVNR	MCP-1	3-9-19-A12-06693-7A13		A	35
109	THICKNER MAKE-UP PUMP #2	7½		DWG E-34	1	FVNR	MCP-3	5-9-10-15-15-19-A12-06693-7A5		A	55
138	FLASH MIXER #2	5	TEFC	DWG E-39	1	FVNR	MCP-3	2-9-17-19-A12-06693-7A6		A	36
271	COOLANT PUMP #3	7½		DWG E-27	1	FVNR	MCP-3	5-17-21-22-24-25-26-A12-06693-7A11		A	NOTE #1
272	COOLANT PUMP #4	7½		DWG E-27	1	FVNR	MCP-3	5-17-22-24-25-26-A12-06693-7A8		A	NOTE #1
279	WATER COOLER FAN #2	15		DWG E-27	2	FVNR	MCP-4	5-22-24-25-26-A12-06693-7A16		A	NOTE #1
280	WATER COOLER PUMP #2	1½		DWG E-27	1	FVNR	MCP-1	5-22-24-25-26-A12-06693-7A16		A	NOTE #1
	PANELBOARD PHP-5	-	-	DWG E-34	100	FUSW	100	NONE-A30318-489		-	-
	PANELBOARD PHP-1	-	-	DWG E-22	100	FUSW	100	NONE-A30318-489		-	-
89	FEED AIR COMP N°1	250		DWG E-28	6	RVNR	MCP-9	NOTE #1-C12-06693-7A1	MCC VII		NOTE #1
VIII	MOTOR CONTROL CENTER								MCC VIII		
15	PRI S.T. #1 DRIVE - INFLUENT END	½	TEFC	DWG E-36	1	FVNR	MCP-1	5-9-10-17-19-20-A12-06693-8A4		A	37
17	PRI S.T. #1 DRIVE - EFFLUENT END	½	TEFC	DWG E-36	1	FVNR	MCP-1	5-9-10-17-19-A12-06693-8A5		A	38
35	2ND STAGE S.T. #1 DRIVE	½	TEFC	DWG E-38	1	FVNR	MCP-1	5-9-10-17-19-A12-06693-8A6		A	39
64	EFFLUENT WATER PUMP #1	40		DWG E-34	3	FVNR	MCP-6	3-9-19-A12-06693-8A14		A	49
67	1ST STAGE S.T. #2 DRIVE	½	TE	DWG E-38	1	FVNR	MCP-1	5-9-10-17-19-A12-06693-8A6		A	39
68	ALUM FEED PUMPS 1-B-5	¼		DWG E-32	1	FVNR	MCP-1	4-9-19 EACH-A12-06693-8A7		-	52
93	INSTRUMENT AIR COMP #2	25		DWG E-25	2	FVNR	MCP-5	A12-06693-8A13		-	-
	PANEL "G"			DWG E-29	30	FUSW	25	NONE-A30318-498		-	-
94	LOX EVAPORATOR	72kW		DWG E-36	200	FUSW	150	NONE-A12-06693-6A22 MCC VI		-	-
102	POST-THICKENER #1 DRIVE		TE	DWG E-35	1	FVNR	MCP-1	7-9-14-19-10-17-B12-06693-8A9		A	42
103	PRE-THICKENER #1 DRIVE	1	TE	DWG E-35	1	FVNR	MCP-1	7-9-14-19-10-17-A12-06693-8A9		A	42
120	LIME HANDLING SYSTEM #2			DWG E-34	30	FUSW	30	NONE-A30318-496		-	-
120A	DUST FILTER FAN LHS	1		DWG E-39	1	FVNR	MCP-1	7-9-10-16-19-A12-06693-8A10		A	45
134	LS HOLDING TANK #3 MIXER	1		DWG E-34	1	FVMS	MCP-1	5-9-19-19-A12-06693-8A15		A	44
146	GALLERY #2 SUMP PUMP #6	5	SUB	DWG E-23	1	FVNR	MCP-3	2-9-19-A12-06693-8A8		A	40
148	THICKNER SUMP PUMP #8	5	SUB	DWG E-24	1	FVNR	MCP-3	2-9-19-A12-06693-8A8		A	40
150	GALLERY #6 SUMP PUMP #9	5	SUB	DWG E-30	1	FVNR	MCP-3	2-9-19-A12-06693-8A8		A	40
152	GALLERY #8 SUMP PUMP #11	5	SUB	DWG E-34	1	FVNR	MCP-3	2-9-19-A12-06693-8A8		A	40
175	DIG #1 PURGE BLOWER	7½	TEFC	DWG E-35	1	FVNR	MCP-3	7-9-15-19-10-16-20-8-B12-06693-8A11		A	41
177	PURGE BLOWER #3	7½	TEFC	DWG E-35	1	FVNR	MCP-3	7-9-15-19-10-16-20-8-B12-06693-8A11		A	41
179	PURGE BLOWER 1-2	7½	TEFC	DWG E-37	1	FVNR	MCP-3	7-9-15-19-10-16-20-8-B12-06693-8A11		A	41
181	PURGE BLOWER 2-2	10	TEFC	DWG E-37	1	FVNR	MCP-4	7-9-15-19-10-16-20-8-B12-06693-8A11		A	41
	PANELBOARD "PHPE"			DWG E-22	60	FUSW	60	NONE-A30318-497		-	-
	PANELBOARD "PHP-5E"			DWG E-31	60	FUSW	60	NONE-A30318-497		-	-
GV	POT WATER SUPPLY VALVE			DWG E-34	30	FUSW	20	NONE-A30318-496	MCC VIII	-	-
IX	MOTOR CONTROL CENTER								MCC IX		
16	PRI S.T. #2 DRIVE-INFLUENT END	½	TEFC	DWG E-36	1	FVNR	MCP-1	5-9-10-17-19-20-A12-06693-9A11		A	37
18	PRI S.T. #2 DRIVE-EFFLUENT END	½	TEFC	DWG E-36	1	FVNR	MCP-1	5-9-10-17-19-A12-06693-9A12		A	38
36	2ND STAGE S.T. #2 DRIVE	½	TEFC	DWG E-38	1	FVNR	MCP-1	5-9-10-17-19-A12-06693-9A8		A	39
37	2ND STAGE S.T. #3 DRIVE	½	TEFC	DWG E-38	1	FVNR	MCP-1	5-9-10-17-19-A12-06693-9A8		A	39
65	EFFLUENT WATER PUMP #2	40		DWG E-34	3	FVNR	MCP-6	3-9-19-A12-06693-9A14		A	49
66	1ST STAGE S.T. #1 DRIVE	½	TE	DWG E-38	1	FVNR	MCP-6	5-9-10-17-19-A12-06693-9A8		A	39
92	INSTRUMENT AIR COMP #1	25		DWG E-25	2	FUSW	MCP-5	A12-06693-9A13		-	-
	PANEL "F"			DWG E-26	60	FUSW	40	NONE-A30318-497		-	-
95	LOX EVAPORATOR	48kW		DWG E-36	100	FUSW	70	NONE-A12-06693-7A21- MCC VIII		-	-
	PANELBOARD PHP-CRE		-	DWG E-25	200	FUSW	200	NONE-A30318-498		-	-
104	POST-THICKENER #2 DRIVE	1	TE	DWG E-35	1	FVNR	MCP-1	7-9-14-19-10-17-A12-06693-9A7		A	42
105	PRE-THICKENER #2 DRIVE	1	TE	DWG E-35	1	FVNR	MCP-1	7-9-14-19-10-17-A12-06693-9A7		A	42
121	LIME HANDLING SYS #1	-		DWG E-34	30	FUSW	30	NONE-A30318-498		-	-
135	LS HOLDING TANK #2 MIXER			DWG E-34	1	FVMS	MCP-1	5-9-19-19-A12-06693-9A15		A	44
139	FLASH MIXER #3	5	TEFC	DWG E-39	1	FVNR	MCP-3	3-9-19-17-A12-06693-9A10		A	43
147	GALLERY #2 SUMP PUMP #5	5	SUB	DWG E-23	1	FVNR	MCP-3	2-9-19-A12-06693-9A5		A	40
149	PRE-THICK. SUMP PUMP #7	5	SUB	DWG E-24	1	FVNR	MCP-3	2-9-19-A12-06693-9A5		A	40
151	GALLERY #6 SUMP PUMP #10	5	SUB	DWG E-30	1	FVNR	MCP-3	2-9-19-A12-06693-9A5		A	40
153	GALLERY #8 SUMP PUMP #12	5	SUB	DWG E-34	1	FVNR	MCP-3	2-9-19-A12-06693-9A5		A	40
170	DIG #2 PURGE BLOWER	7½	TEFC	DWG E-35	1	FVNR	MCP-3	7-9-15-19-10-16-20-8-B12-06693-9A6		A	41
178	PURGE BLOWER 1-1	7½	TEFC	DWG E-37	1	FVNR	MCP-3	7-9-15-19-10-16-20-8-B12-06693-9A6		A	41
180	PURGE BLOWER 2-1	10	TEFC	DWG E-37	1	FVNR	MCP-4	7-9-15-19-10-16-20-8-B12-06693-9A6		A	41
182	PURGE BLOWER 2-3	10	TEFC	DWG E-37	1	FVNR	MCP-4	7-9-15-19-10-16-20-8-B12-06693-9A6		A	41
	PANELBOARD "PHP-BE"	-	-	DWG E-34	100	FUSW	100	NONE-A30318-489		-	-
68	ALUM FEED PUMPS 2-4 PANEL "H"	¼	-	DWG E-32	1	FVNR	MCP-1	4-9-19 EACH-A12-06693-9A1		-	52
		-		DWG E-22	60	FUSW	40	NONE-A30318-497 MCC IX		-	-

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

1. CONTROL POWER TRANSFORMER 100 VA
2. CONTROL POWER TRANSFORMER 150 VA
3. CONTROL POWER TRANSFORMER 200 VA
4. CONTROL POWER TRANSFORMER 250 VA
5. CONTROL POWER TRANSFORMER 300 VA
6. CONTROL POWER TRANSFORMER 2 KVA
7. CONTROL POWER TRANSFORMER 750 VA
8. S.P.S.T. DISCONNECT SWITCH
9. CONTROL RELAY CR-A
10. CONTROL RELAY CR-B
11. CONTROL RELAY CR-C
12. CONTROL RELAY CR-D
13. CONTROL RELAY CR-E
14. CONTROL RELAY CR-L (LATCHING)
15. TIME DELAY RELAY
16. AUXILIARY FUSES
17. ELAPSED TIME METER
18. AUXILIARY CONTACTS N.O.-N.C.
19. AUXILIARY CONTACTS 2 N.O.-2 N.C.
20. TIME CLOCK - TYPE #1
21. ALTERNATOR
22. AUXILIARY CONTACTS 3 N.O.-3 N.C.
23. TIME CLOCK - TYPE #3
24. HAND-OFF-AUTO SELECTOR SWITCH
25. GREEN RUN PILOT INDICATOR
26. RED STOP PILOT INDICATOR
27. DAY-NIGHT SELECTOR SWITCH
28. PULSE TIMER

MOTOR CIRCUIT PROTECTOR	CONTINUOUS CURRENT RATING	MINIMUM ADJ. INST. TRIP
MCP-1	3	8- 22
MCP-2	7	18- 58
MCP-3	15	50- 150
MCP-4	30	100- 300
MCP-5	50	180- 480
MCP-6	100	300-1000
MCP-7	150	450-1550
		600-1800
MCP-8	225/250	1250-2250
MCP-9	400	1200-4000

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NOTE #1: COORDINATE WITH CONTRACTS 1 OR 3 AND PROVIDE IN ACCORDANCE WITH APPROVED MANUFACTURERS WIRING DIAGRAMS.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

NO.	RECORD				
4	JRD 4/4/83	RAK		JRC	4/4/83
3	PC-84 BELT PRESS WIRING RAK 2/80	JRC	RAK	JLS	3/9/82
2	FOR CONSTRUCTION JOB 2/24/78	JRC	JRC	SGB	2/24/78
1	FOR APPROVALS JOB 3/31/76	JRC	TBA	SGB	3/31/76
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: Joel Levanon — APPROVED: S.G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING & PROCESS STRUCTURE
MOTOR CONTROL CENTER SCHEDULE

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 46 BP 1

NOTES : CONT'D.

8. PROVIDE EXPLOSION PROOF MANUAL STR. IN GRIT BUILDING.
9. REFER TO DWG. E-46 FOR EQUIPMENT PROTECTIVE DEVICES.
10. RUN/STOP SELECTOR SWITCH IN STARTER COVER.
11. INTERLOCK WITH ROOM LIGHTING CONTROL & DOOR SWITCHES; REFER TO ELEMENTARY DIAGRAM ON DWG. E-21.
12. VERIFY WIRING REQUIREMENTS FROM CONTROL UNIT TO COIL SEGMENTS WITH APPROVED MANUFACTURER'S WIRING DIAGRAMS & PROVIDE ACCORDINGLY
13. INTERLOCK ITEMS 244 & 245 (COIL SEGMENTS CAN NOT BE ENERGISED WITHOUT FAN RUNNING)
14. INTERLOCK ITEMS 246 & 247 (COIL SEGMENTS CAN NOT BE ENERGISED WITHOUT FAN RUNNING)
15. EXTEND 3"Ø & 1"ØGE-1"C (3"Ø & 1"ØGE-1/2"C) FOR ITEM 235) FROM BA. STARTER (2) IN PACKAGE CONTROL UNIT TO BA MOTOR AND MAKE ALL NECESSARY CONNECTIONS.
16. INTERLOCK WITH EACH STARTER OF ITEM 241.

ADDENDUM ITEM NO. 174:
ELECTRIC EQUIPMENT AND CONTROL SCHEDULE-
ITEMS 291, 292, AND 293, COOLER BASE HEATERS: CHANGE VOLTAGE FROM 120 TO 208V 1 PHASE. CHANGE CIRCUIT BREAKER FROM 30A IP TO 20A 2P. CHANGE WIRE SIZE FROM #10 TO #12.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT						SUPPLY			WIRE & CONDUIT FROM PANEL TO CONTROL UNIT		WIRE & CONDUIT FROM CONTROL UNIT TO EQUIPMENT		GROUND WIRE	REFERENCE NOTES	CONTROL DEVICES MOUNTED IN ROOMS AS SCHEDULED AND AS SHOWN ON PLANS BY ℄														
ITEM NUMBER	NAME	ROOM LOCATION	HORSEPOWER	KILOWATTS	PHASE	VOLTS	PANEL OR CONTROL CENTER	CIRCUIT NUMBER	CIRCUIT BREAKER	WIRE	COND	WIRE	COND			DISCONNECT SWITCH *	DISCONNECT SWITCH	MANUAL MOTOR STARTER SINGLE SPEED *	COMB. MAGNETIC MOTOR STARTER *	PACKAGED CONTROL UNIT	PUSHBUTTON STATION	ALTERNATOR	FREEZESTAT	FIRE STAT	PRESSURE SW. OR "PE" SW.	FLOW SWITCH	SOLENOID VALVE OR "EP" SWITCH	ALARM AND SIGNAL LIGHT	S.C.R. CONTROLLER	SMOKE DETECTOR *
201	FAN #1	A-134	2	—	3	480	MCC I	—	—	3#12	1/2"	3#12	1/2"	12	9, 11	A134			MCC I											
202	UH #1	SEE PLANS	1/6	1.5	3	480	SEE PLANS	—	—	3#10	1/2"	3#10	1/2"	10		SEE PLANS				AU					AU					AU
203	HVU #1 FANS	A-209	1/3 2 SPD	—	3	480	MCC IV	—	850A-3P MOM.	3-500 MCM	3½"	—	—	2	3		AU			AU										
203A	HVU #1 COIL	A-209	—	150	3	480	—	—	—	3#12	1/2"	3#12	1/2"	12	9	A208	AU		MCC I						MCC I					
204	FAN #2	A-208	3	—	3	480	MCC I	—	—	3#12	1/2"	3#12	1/2"	12	9	A208	AU		MCC II						MCC II					
205	FAN #3	A-208	3	—	3	480	MCC II	—	—	3#12	1/2"	3#12	1/2"	12	9	A208	AU													
206	CH #1	A-119	1/20	9	3	480	PHE	1	20A3P	3#12	1/2"	—	—	12						AU					AU					
207	UH #2	SEE PLANS	1/12	7.5	3	480	SEE PLANS	—	20A3P	3#12	1/2"	3#12	1/2"	12		SEE PLANS				AU					AU					
208	FAN #4	A-116	1/12	—	1	120	L-1	25	15A1P	2#12	1/2"	2#12	1/2"	12				A-119							A-116					
209	AIR CURTAIN	A-111	3/4	14	3	480	PHE	2	25A3P	3#10	1/2"	3#10	1/2"	10		A-111 SHOWN ON				AU					A-111	AU				
210	FAN #10	A-117	1/6	—	1	120	L-1	24	15A1P	2#12	1/2"	2#12	1/2"	12			AU			A-117										
211	ACS #1	A-122	10	—	3	480	PH	9	30A3P	3#10	1/2"	3#10	1/2"	10		A-122			A-122											
212	NOT USED																													
213	NOT USED																													
214	ACS #2	A-205 RF	—	—	3	480	PH	8	40A3P	3"Ø	1"	3"Ø	1"	10	2	AU				AU					AU					
215	RHC #1	A-206	—	1.0	1	277	PH-1	1	20A-1P	2#12	1/2"	2#12	1/2"	12		+ A206									AU	AU				AU
216	RHC #2	A-205	—	3	1	277	PH-1	2	20A1P	2#12	1/2"	2#12	1/2"	12		— A205									AU	AU				AU
217	CH #4	A-207	—	7	3	480	PHE	20	20A3P	3#12	1/2"	—	—	12						AU										
218	FAN #5	A-142 RF	1/4	—	1	120	LG	11	15A1P	2#12	1/2"	2#12	1/2"	12			AU	A-142												
218A	NOT USED																													
219	ACCU #1	A-204	—	—	3	480	PH	2	40A3P	3"Ø	1"	3"Ø	1"	10	3	AU				AU					AU				A122	
220	ACCU #2	A-204	—	—	3	480	PH	3	40A3P	3"Ø	1"	3"Ø	1"	10	3	AU				AU					AU				A122	
221	FAN #7	A-144 RF	1/3	—	1	120	LGE	8	15A1P	2#12	1/2"	2#12	1/2	12			AU	A144							A144					
222	FAN #8	A-146 RF	1/3	—	1	120	LG	9	15A1P	2#12	1/2"	2#12	1/2	12			AU	A154												
223	FAN #9	A-153 RF	1/3	—	1	120	LGE	9	15A1P	2#12	1/2"	2#12	1/2	12			AU	A153							A153					
224	UH #3	SEE PLANS	1/6	1.5	3	480	SEE PLANS	SEE PLANS	30A3P	3#10	1/2"	3#10	1/2	10		SEE PLANS				AU					AU					
225	UH #4	SEE PLANS	1/6	10	3	480	SEE PLANS	SEE PLANS	20A3P	3#12	1/2"	3#12	1/2	12		SEE PLANS				AU					AU					
226	FIN RAD (1)	SEE PLANS	—	.75	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12			AU								AU					
227	FIN RAD (2)	SEE PLANS	—	1.0	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12			AU								AU					
228	FIN RAD (3)	SEE PLANS	—	1.25	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12			AU								AU					
229	FIN RAD (4)	SEE PLANS	—	1.5	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12			AU								AU					
230	FIN RAD (5)	SEE PLANS	—	2.0	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12			AU								AU					
231	FIN RAD (6)	SEE PLANS	—	2.0	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12			AU								AU					
232	CH #2	A-138	1/20	6.0	3	480	PGE	14	20A3P	3#12	1/2"	—	—	12						AU										
233	CLG HTR	SEE PLANS	—	1.0	1	120	LG	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12	6															
234	DHW HTR	A-125	—	24	3	480	PH	4	40A3P	3"Ø	1"	3"Ø	1"	10		A125														
235	DHW HTR	A-155	—	24	3	480	PG	2	40A3P	3"Ø	1"	3"Ø	1"	10		A144														
236	T.C. PANEL	A-122	—	—	1	120	LE	21	20A1P	2#12	1/2"	—	—	12		AU														
237	WATER COOLER	A-121	1/3	—	1	120	L-1	19	20A1P	2#12	1/2"	—	—	12	1		AU													
238	WATER COOLER	A-110	1/3	—	1	120	L-1	20	20A1P	2#12	1/2"	—	—	12	1		A.U													
239	TIME CLOCK	A-122	—	—	1	120	L-1	33	20A1P	2#12	1/2"	—	—	12	1														A122	
240	EYE WASH HTR.	SEE PLANS	—	1.0	1	120	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12		A.U														
241	DUPLEX AIR COMP.	A-144	2@25	—	3	480	PG	4	100A-3P	3"Ø	1¼"	—	—	8	15					A-144										
242	AIR COMP. AFTER COOLER	A-144	1/2	—	3	480	PG	5	20A-3P	3#12	1/2"	3#12	1/2"	12	16				A-144											
243	VACUUM PUMP	A-207	1/3	—	1	120	LAB	19	20A1P	2#12	1/2"	2#12	1/2"	12																
244	FAN #6	A-122	1/12	—	1	120	L-1	35	20A1P	2#12	1/2"	2#12	1/2"	12																
245	D.H.W. HTR	A-208	—	24	3	480	PH-1	7	40A-3P	3#8	1"	3#8	1"	10		A-208													3 Ø MCP	
158	FILTER RM HOIST	A-208	1 Ø @ 1/3 & 3/4	—	3	480	PH-1	4	20A3P	3#12	1/2"	3#12	1/2"	12		A-208				A 208										
159	PUMP RM HOIST	A-02	1 Ø @ 1/3 & 3/4	—	3	480	PH-1	5	20A-3P	3#12	1/2"	3#12	1/2"	12		A02				A 02										
161	SLUDGE RM HOIST	A-129	1 Ø @ 1/3 & 3/4	—	3	480	PH-1	6	20A-3P	3#12	1/2"	3#12	1/2"	12		A 129				A 129										
162	BRIDGE CRANE	A-144	1 Ø @ 1/3 & 3/4	—	3	480	PG	⊥	20A-3P	3#12	1/2"	3#12	1/2"	12		A 144				A-144										
163	ROLL-UP DOOR	A-134	1/2	—	1	208	L-1	15	20A2P	2#10	1/2"			12	5	A-134				A-134	A134				A134				A-134	
165	ROLL-UP DOOR	A-153	1/2	—	1	208	L-G	12	20A2P	2#10	1/2"			12	5	A-153				A-153	A-153				A-153				A-153	
166	ROLL-UP DOOR	A-153	1/2	—	1	208	CIRCUIT W/ ITEM # 165								5	A-153				A-153	A-153				A-153				A-153	
167	ROLL-UP DOOR	A-144	1/2	—	1	208	L-G	13	20A2P	2#12	1/2"			12	5	A-144				A-144	A-144				A-144				A-144	
168	ROLL-UP DOOR	A-144	1/2	—	1	208	CIRCUIT W/ ITEM # 169								5	A-144				A-144	A-144				A-144				A-144	
169	ROLL-UP DOOR	A-129	1/2	—	1	208	L-1	26	20A2P	2#12	1/2"			12	5	A-129				A-129	A129				A-129				A-129	
170	ROLL-UP DOOR	A-129	1/2	—	1	208	CIRCUIT W/ ITEM # 169								5	A-129				A-129	A-129				A-129				A-129	
171	KITCHENETTE	A-139	—		1	120 208	LG	14	50A2P	3"Ø	1"	—	—	10	1															
172	KITCHENETTE	A-152	—		1	120 208	LG	15	50A2P	3"Ø	1"	—	—	10	1															
173	DUMBWAITER	A-207	1	—	3	480	PH-1	3	20A3P	3#12	1/2"	3#12	1/2"	12		A207				A207	121 207									

ELECTRIC EQUIPMENT & CONTROL SCHEDULE & NOTES

ITEM NUMBER IS USED TO IDENTIFY EQUIPMENT & ASSOCIATED CONTROL DEVICES ON PLANS
ALL CONTROL DEVICES FURNISHED BY OTHERS UNLESS OTHERWISE NOTED
ALL CONTROL DEVICES MOUNTED BY ELECTRIC CONTRACTOR UNLESS OTHERWISE NOTED
ALL CONTROL DEVICES SURFACE MOUNTED UNLESS OTHERWISE NOTED

A.U. = AT UNIT
* = PROVIDED BY ELECTRIC CONTRACTOR
+ = FLUSH MOUNTED
□ = MOUNTED BY OTHERS
ALL COMP. MAG. MOTOR STARTERS LISTED SHALL CONTAIN H-O-A SW., GREEN RUN LT., RED "TOP" LT. PLUS 3 N.O. & 3 N.C. AUX. CONTACTS.

NOTES:
1. PROVIDE DIRECT CONNECTION TO EQUIPMENT AS INDICATED BY EQUIPMENT MANUFACTURERS APPROVED SHOP DRAWINGS.
2. ACH #2 COMPRESSOR FLA=22.1A, LRA=86A.; INDOOR FAN FLA=4.6A OUTDOOR FAN FLA=2.8P 1.6A
3. ACCH #1 & #2 COMPRESSOR FLA=22.2A, LRA=86A. FAN FLA=2.8P 1.6A
4. PROVIDE FUSED DISCONNECT SWITCH; FUSE SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
5. REFER TO TYPICAL ROLL-UP DOOR WIRING DIAGRAM ON DWG E-8
6. PROVIDE 2"12-1/2"C. FROM CLG. HTR. TO WALL MTD. TIME SW.; REFER TO FLOOR PLANS FOR LOCATIONS.
7. PROVIDE POWER RELAY IN GAL #1. RELAY TO HAVE 277V. COIL & 25A, 277V. CONTACTS. PROVIDE 2"12-1/2"C. FROM PE SW. IN GAL #1 TO RELAY; PE SW. BY CONTRACT 3.

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ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT						SUPPLY			WIRE & CONDUIT FROM PANEL TO CONTROL UNIT		WIRE & CONDUIT FROM CONTROL UNIT TO EQUIPMENT		GROUND WIRE	REFERENCE NOTES	CONTROL DEVICES MOUNTED IN ROOMS AS SCHEDULED AND AS SHOWN ON PLANS BY ℄														
ITEM NUMBER	NAME	ROOM LOCATION	HORSEPOWER	KILOWATTS	PHASE	VOLTS	PANEL OR CONTROL CENTER	CIRCUIT NUMBER	CIRCUIT BREAKER	WIRE	COND	WIRE	COND			DISCONNECT SWITCH *	DISCONNECT SWITCH	MANUAL MOTOR STARTER SINGLE SPEED *	COMB. MAGNETIC MOTOR STARTER *	PACKAGE CONTROL UNIT	PUSHBUTTON STATION	ALTERNATOR	FLEEZE-STAT	FIRE STAT OR THERMOSTAT	PRESSURE SW. OR "PE" SW.	FLOW SWITCH	SOLENOID VALVE OR "EP" SWITCH	ALARM SIGNAL & LIGHT	S.C.R. CONTROLLER	SMOKE DETECTOR *
251	FIN RAD (7)	GRIT BLDG.	—	3.0	1	277	SEE PLANS	SEE PLANS	20A1P	2#12	1/2"	2#12	1/2"	12	1, 7											GAL #1				
252	FAN #21	GAL #5 ROOF	1½	—	3	480	PHP-5E	5	15A3P	3#12	1/2"	3#12	1/2"	12	10		A.U		GAL 8											
253	FAN #11	GRIT BLDG.	1/3	—	1	120	PLP-1E	2	20A1P	2#12	1/2"	2#12	1/2"	12	8		A.U.	GB												
254	FAN #12	GRIT BLDG.	1/3	—	1	120	PLP-1E	3	20A1P	2#12	1/2"	2#12	1/2"	12	8		A.U.	GB												
255	FAN #13	GRIT STR. (GAL 5)	1/2	—	3	480	PHP-5E	1	15A3P	3#12	1/2"	3#12	1/2"	12	10		A.U		GAL 5											
256	FAN #14	LIME BIN STOR.	2	—	3	480	PHP-BE	9	15A3P	3#12	1/2"	3#12	1/2"	12	10		A.U.		LIME BIN ST.											
257	FAN #15	CL. STOR.	2	—	3	480	PHP-BE	6	15A3P	3#12	1/2"	3#12	1/2"	12	11	A.U.	A.U.		GAL #8											
258	FAN #16	CL. STOR.	1	—	3	480	PHP-BE	7	15A3P	3#12	1/2"	3#12	1/2"	12	11	A.U.	A.U.		GAL #8											
259	FAN #17	CL. STOR.	3	—	3	480	PHP-BE	8	15A3P	3#12	1/2"	3#12	1/2"	12	11	A.U.	A.U.		GAL #8											
260	FAN #18	PROC. BLDG. MECH. RM.	5	—	3	480	PHP-GE	9	20A3P	3#12	1/2"	3#12	1/2	12					PROC. MECH.					PROC. MECH.		PROC. MECH.			
261	FAN #19	GAL #6 ROOF	2	—	3	480	PHP-5E	2	15A3P	3#12	1/2"	3#12	1/2"	12	10		A.U.		GAL #6											
262	FAN #20	PROC. BLDG. MECH. ROOF	2	—	3	480	PHP-GE	10	15A3P	3#12	1/2"	3#12	1/2"	12			A.U.		PROC. MECH.					PROC. MECH.					
263	CH #3	BNT @ GAL 3	1/20	6.0	3	480	PHP-GE	10	20A3P	3#12	1/2"	—	—	12							A.U									
264	HVU #2	PROC. BLDG. MECH. RM.	40	—	3	480	PHP-GE	9	100A-3P	3#2	1¼"	3#4	1¼"	8	13				PROC. MECH.			A.U	A.U.							A.U
265	HVU #2 COIL	PROC. BLDG. MECH. RM.	—	500	3	480	DS-X	—	—	500MCM		2-3½"	3Ø6	10-1½	2"1/0	12, 13					PROC. MECH.						A.U.		
266	HVU #3	GAL #2	5	—	3	480	PHP-GE	12	20A-3P	3#12	1/2"	3#12	1/2"	12	14	A.U			GAL #2							A.U.	A.U.			A.U.
267	HVU #3 COIL	GAL #2	—	112	3	480	MCC-VI	—	—	4"Ø	2"	2Ø8	4-1⅛"	6	12, 14	A.U				GAL #2						A.U.	A.U.			
268	UH #5	SEE PLANS	1/20	5.0	3	480	SEE PLANS	SEE PLANS	20A3P	3#12	1/2"	3#12	1/2"	12		SEE PLANS				A.U.						A.U.				
269	CP #1	PROC. BLDG. MECH. RM.	7½	—	3	480	MCC VI	—	—	3#12	1/2"	3#12	1/2"	12	9	A.U			MCC VI								A.U.			
270	CP #2	PROC. BLDG. MECH. RM.	7½	—	3	480	MCC VI	—	—	3#12	1/2"	3#12	1/2"	12	9	A.U			MCC VI								A.U.			
271	CP #3	PROC. BLDG. MECH. RM.	7½	—	3	480	MCC VII	—	—	3#12	1/2"	3#12	1/2"	12	9	A.U			MCC VII								A.U.			
272	CP #4	PROC. BLDG. MECH. RM.	7½	—	3	480	MCC VII	—	—	3#12	1/2"	3#12	1/2"	12	9	A.U			MCC VII								A.U.			
273	CHEM. FEED PUMP #2	PROC. BLDG. MECH. RM.	—	—	1	120	PLP-GE	14	20A1P	2#12	1/2"	2#12	1/2"	12							PROC. MECH.									
274	CHEM. FEED PUMP #1	PROC. BLDG. MECH. RM.	—	—	1	120	PLP-GE	15	20A1P	2#12	1/2"	2#12	1/2"	12							PROC. MECH.									
275	UH #6	SEE PLANS	1/20	7.5	3	480	SEE PLANS	SEE PLANS	20A3P	3#12	1/2"	3#12	1/2"	12								A.U.					A.U.			
276																														
277	COOLER #1 FAN	PROC. BLDG. MECH. RM.	15	—	3	480	MCC VI	—	—	3"Ø	1"	3"Ø	1"	10	9	A.U			MCC VI										A.U.	
278	COOLER #1 PUMP	PROC. BLDG. MECH. RM.	1½	—	3	480	MCC VI	—	—	3#12	1/2"	3#12	1/2"	12	9	A.U			MCC VI											
279	COOLER #2 FAN	PROC. BLDG. MECH. RM.	15	—	3	480	MCC VII	—	—	3"Ø	1"	3"Ø	1"	10	9	A.U			MCC VII										A.U.	
280	COOLER #2 PUMP	PROC. BLDG. MECH. RM.	1½	—	3	480	MCC VII	—	—	3#12	1/2"	3#12	1/2"	12	9	A.U.			MCC VII											
281	COOLER #3 FAN	PROC. BLDG. MECH. RM.	15	—	3	480	MCC V	—	—	—	1"	—	—	—	9	A.U.			MCC V											
282	COOLER #3 PUMP	PROC. BLDG. MECH. RM.	1½	—	3	480	MCC V	—	—	—	1/2"	—	—	—	9	A.U.			MCC V											
283A																														
283B																														
284																														
285	T.C. PANEL	PROC. BLDG. MECH. RM.	—	—	1	120	PLP-GE	13	20A1P	2#12	1/2"	2#12	1/2"	12			PROC. MECH.													
286	D.H.W. HTR	GAL #8	—	12	3	480	PHP-8	3	20A-3P	3#12	1/2"	3#12	1/2"	12			A.U													
287	SEWAGE EJECTOR ALARM CONTROL	GAL #8	—	—	1	120	PLP-8E	1	20A1P	2#12	1/2"	2#12	1/2"	12			A.U.													
288	SEWAGE EJECTOR	GAL #8	2@1½	—	3	480	PHP-8E	4	15A-3P	3#12	1/2"	—	—	12	15	AU					A.U									AU MOUNTED
289	CP #5	PROC. BLDG. MECH. RM.	7½	—	3	480	MCC V	—	—	—	1/2"	—	—	—	9	A.U.			MCC V								A.U.			
290	CP #6	PROC. BLDG. MECH. RM.	7½	—	3	480	MCC V	—	—	—	1/2"	—	—	—	9	A.U.			MCC V								A.U.			
291	COOLER #1 BASE HTR	PROC. BLDG. MECH.	—	2.7	1	208	PLP-GE	47	20A-2P	2#10	1½"	2#12	1/2"	10			A.U					A.U								
292	COOLER #2 BASE HTR	PROC. BLDG. MECH.	—	2.7	1	208	PLP-GE	48	20A-2P	2#10	1½"	2#12	1/2"	10			A.U					A.U								
293	COOLER #3 BASE HTR	PROC. BLDG. MECH.	—	2.7	1	208	PLP-GE	49	20A-2P	—	1½"	—	—	—			A.U													
294	COOLER #1 CNT.	PROC. BLDG. MECH.	—	—	1	120	PLP-GE	50	20A-1P	2#12	1½"	2#12	1/2"	12											PROC. MECH.					
295	COOLER #2 CNT.	PROC. BLDG. MECH.	—	—	1	120	PLP-GE	51	20A-1P	2#12	1/2"	2#12	1/2"	12											PROC. MECH.					
296	D.H.W. HTR.	GAL #1	—	12	3	480	PHP-1	5	20A3P	3#12	1/2"	3#12	1/2"	12			A.U													
297																														
183	ROLL-UP DOOR	GRIT BLDG.	1/2	—	1	208	PLP-1E	1	20A2P	3#10	3/4"			12	5	GRIT BLDG.					GRIT BLDG.	GRIT BLDG.				GRIT BLDG.		GRIT BLDG.		
184	ROLL-UP DOOR	GRIT BLDG.	1/2	—	1	208	CIRCUIT WITH ITEM #183								5	GRIT BLDG.					GRIT BLDG.	GRIT BLDG.				GRIT BLDG.		GRIT BLDG.		
155	CL.RM. HOIST	CL. BLDG.	1 Ø @ 1/3 & 1/2	—	3	480	PHP-8	4	20A-3P	3#12	1/2"	3#12	1/2"	12								LIME BIN STOR.								
156	GAL #2 HOIST	GAL #2	3	—	3	480	PHP-GE	7	20A3P	3#12	1/2"	3#12	1/2"	12								GAL 2								
157	GAL #5 HOIST	ENT @ GAL 5	5	—	3	480	PHP-5	6	20A-3P	3#12	1/2"	3#12	1/2"	12								ENT. ST. GAL 5								
160	CLAM SHELL HOIST	GRIT CHAMBER	2@5 1Ø @ 3/4	—	3	480	PHP-1	1	30A3P	3#10	1/2"	3#10	1/2"	10								ABOVE GRIT CH.								
164	OXY. GEN. GEN. HOIST	OXY. GEN. BM.	1 Ø @ 1/2	—	3	480	PHP-GE	8	30A3P	3#10	1/2"	3#10	1/2"	10								O2 RM.								

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
	JRD	4/4/83	RAK			
2	FOR CONSTRUCTION				S.C.B	2/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				S.C.B	3/31/76
	JOB	3/31/76	JRC	TBA		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.C. Butchin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING & PROCESS STRUCTURE
ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 47

ADDENDUM ITEM NO. 71: SHEET E-48 - CONTROL BUILDING ELEMENTARY DIAGRAMS MCC I & II - DIAGRAM #1: EQUIPMENT CONTAINED WITHIN DASHED LINE REPRESENTS EQUIPMENT LOCATED IN THE CONTROL PANEL.
DIAGRAM #2: CHANGE "JOG" PUSHBUTTON DESIGNATION TO "START"
DIAGRAM #4: RELOCATE "ETM" (ELAPSED TIME METER) FROM LOCATION SHOWN TO NEW LOCATION SO THAT IT IS IN PARALLEL WITH MOT. RUN LIGHT.

ADDENDUM ITEM NO. 175: SHEET NO. E-48 - DELETE DIAGRAM #1 (BAR SCREEN)

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

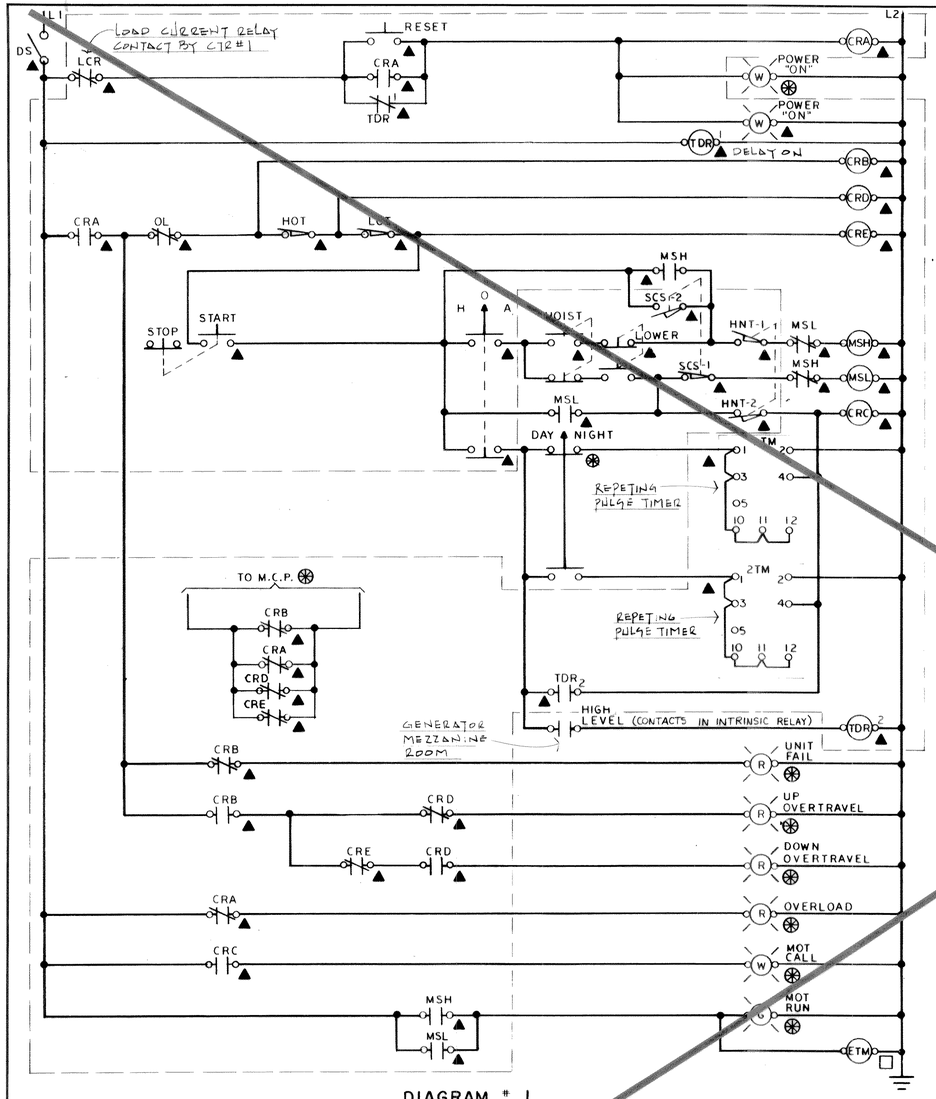


DIAGRAM # 1
SEE ITEM #71

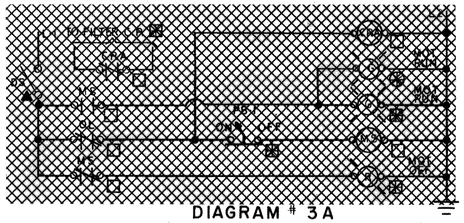
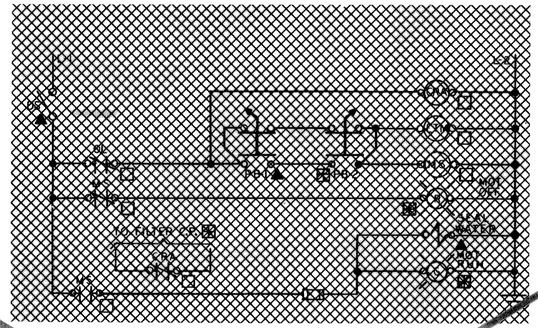


DIAGRAM # 3A



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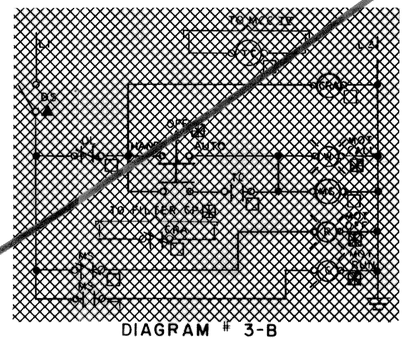

DIAGRAM # 3-B

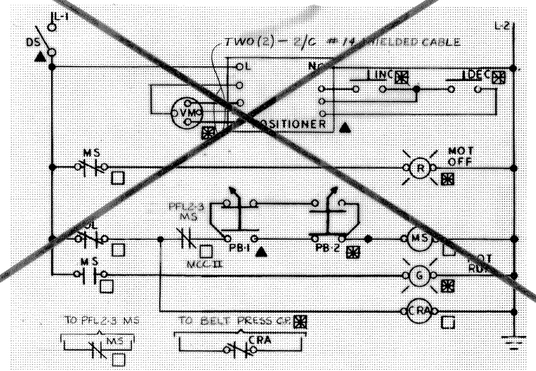

DIAGRAM * 5A
(PFL #1)

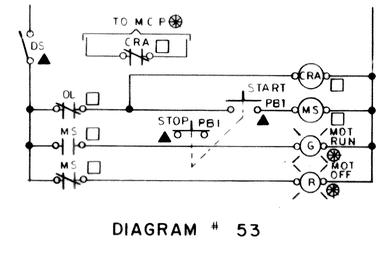

DIAGRAM # 53

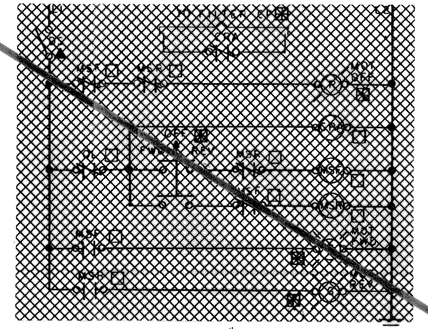

DIAGRAM # 7

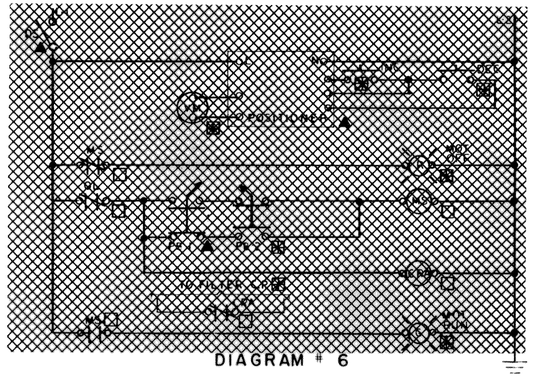

DIAGRAM # 6

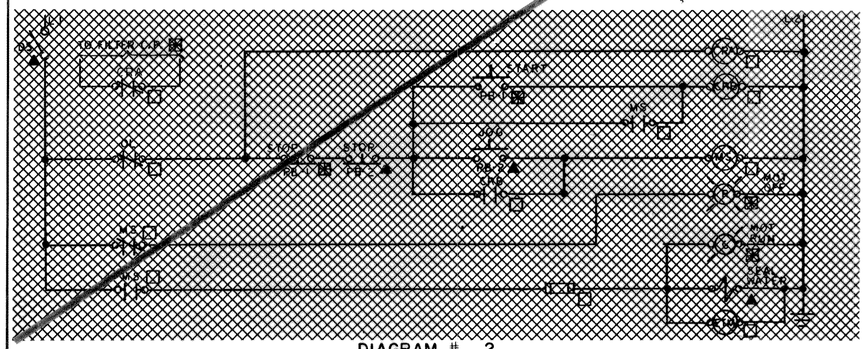

DIAGRAM # 2

ELEMENTARY DIAGRAM LEGEND

- ▲ LOCATED AT MOTOR
- ⚠ LOCATED AT REGULATOR CONTROL PANEL BY CTR #1
- ⊛ LOCATED AT MAIN CONTROL PANEL RM A-202 BY CTR #1
- ☢ LOCATED AT RAW WASTEWATER PUMP CONTROL PANEL BY CTR #1
- ⊙ LOCATED AT MANUAL VALVE OPERATOR
- ☐ LOCATED AT MOTOR CONTROL CENTER
- ▩ LOCATED AT BELT PRESS CONTROL PANEL BY CTR #1
- ⊞ LOCATED AT OXYGEN INST. CONTROL PANEL BY CTR #1
- ▼ LOCATED AT GRIT CHAMBER

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

ELEMENTARY DIAGRAM SYMBOL LIST

- R — PILOT INDICATOR, COLOR AS NOTED
- ETM — ELAPSED TIME METER
- TDR — TIME DELAY RELAY
- MS — MOTOR STARTER COIL
- CR — CONTROL RELAY
- start — PUSHBUTTON STATION MOMENTARY
- stop — PUSHBUTTON STATION MOMENTARY
- start / stop — PUSHBUTTON STATION MAINTAINED
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- OVERLOADS
- SELECTOR SWITCH
- FLOAT SWITCH
- LIMIT SWITCH
- D.S. — AUXILIARY CONTACT ON DISCONNECT SWITCH
- FUSE
- SOLENOID VALVE
- VM — VOLT METER
- TORQUE SWITCH
- TC — TIME CLOCK
- THERMAL SWITCH
- LEL — LOWER EXPLOSION LEVEL

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

VOID - SEE SQUARE D CO. MCC RECORD DRAWINGS

MILLER · SIZING, P.C.
consulting engineers
489 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

4	RECORD				JRC	4/4/80
3	JRD 4/4/80	RAK			KS	3/4/80
2	PC-84 BELT PRESS WIRING FOR CONSTRUCTION	RAK 2/80	JRC	RAK	SGB	2/24/78
1	JOB TBA	2/24/78 3/31/78	JRC TBA	JRC	SGB	2/3/78
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: Joel Swanson — APPROVED: S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
ELEMENTARY DIAGRAMS MCC I & II

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 48 BP

247

ADDENDUM (ITEM NO. 176: ADD DIAGRAM #1 (BAR SCREEN) AS SHOWN ON DWG. E-48. DIAGRAM #9 (RAW WASTE WATERPUMP), ADD TWO FLOAT SWITCHES BY CONTRACTOR #1 LOCATED AT WET WELLS IN ROOM A-01. CONNECT TO SEQUENCE CONTROL PANEL.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

NOTE:
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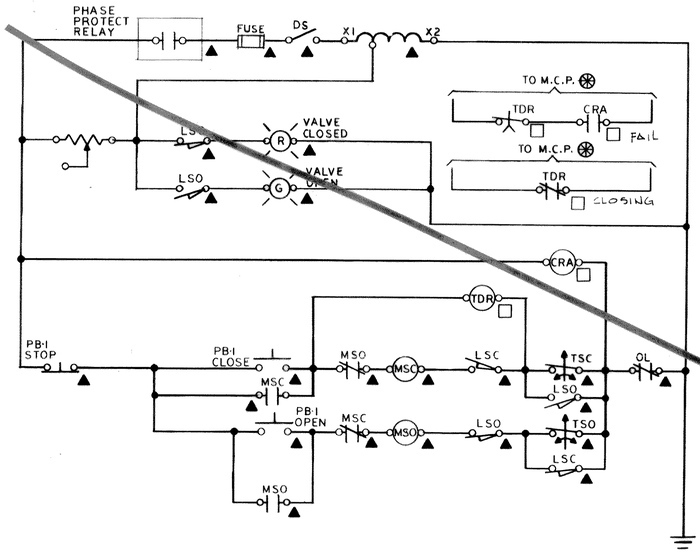

DIAGRAM # 8

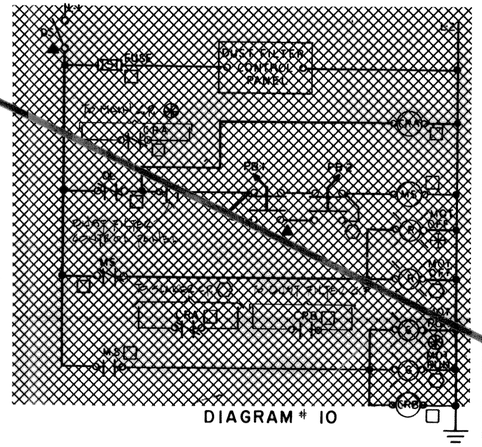

DIAGRAM # 10

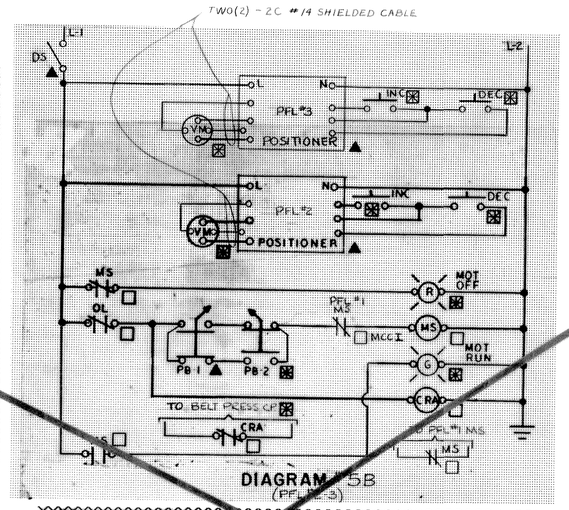

DIAGRAM # 15B
(PFL #3)

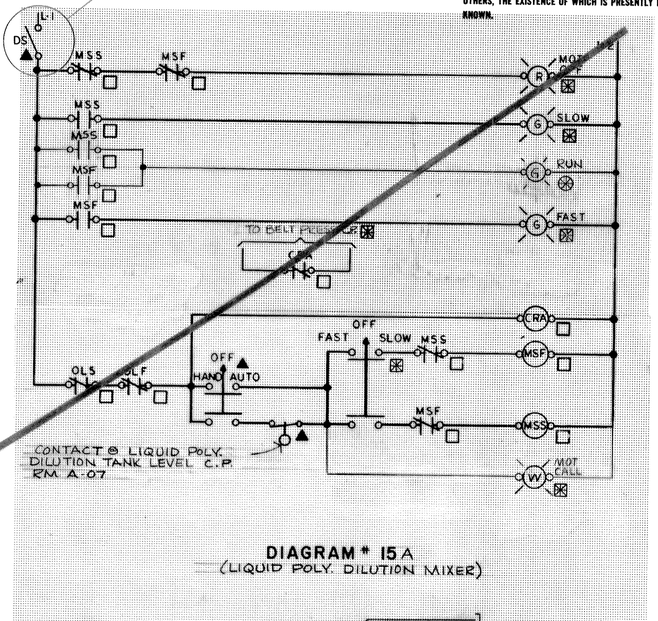

DIAGRAM # 15A
(LIQUID POLY. DILUTION MIXER)

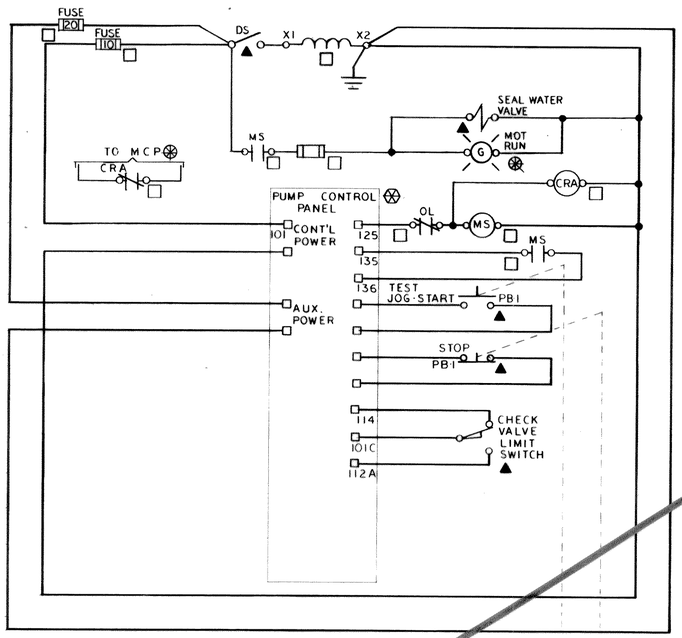

DIAGRAM # 9
SEE ITEM #176

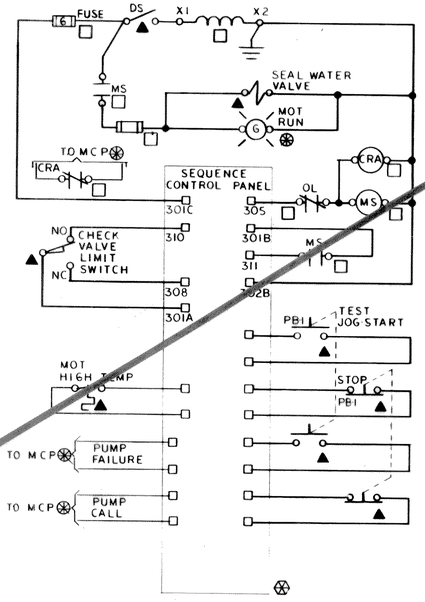

DIAGRAM # 11

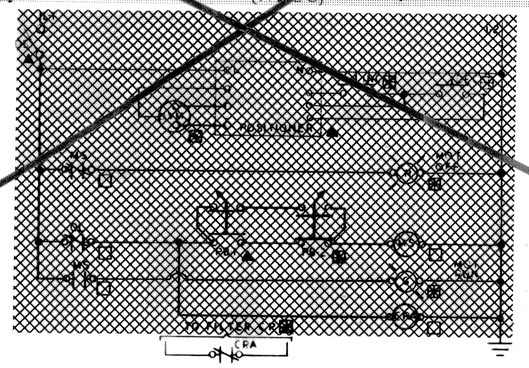

DIAGRAM # 14

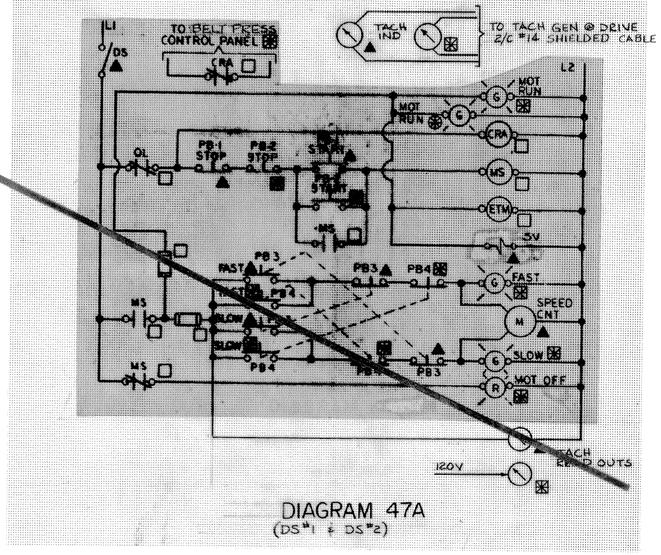

DIAGRAM 47A
(DS #1 & DS #2)

PANEL LE-1
15A,2P
MOT HIGH TEMP
PUMP FAILURE
PUMP CALL
SEQUENCE CONTROL PANEL
L1
N
HIGH LEVEL
LOW LEVEL
TO MCP

ELEMENTARY DIAGRAM LEGEND

- ▲ LOCATED AT MOTOR
- ⧋ LOCATED AT REGULATOR CONTROL PANEL BY CTE #1
- ⊛ LOCATED AT MAIN CONTROL PANEL RM A-202 BY CTE #1
- ⊛ LOCATED AT RAW WASTEWATER PUMP CONTROL PANEL BY CTE #1
- ⊙ LOCATED AT MANUAL VALVE OPERATOR
- □ LOCATED AT MOTOR CONTROL CENTER
- ⊠ LOCATED AT BELT PRESS CONTROL PANEL BY CTE #1
- ⊞ LOCATED AT OXYGEN INST. CONTROL PANEL BY CTE #1
- ◆ LOCATED AT GRIT CHAMBER

VOID - SEE SQUARE D CO. RECORD DRAWINGS

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consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD JRD 4/11/83		RAK		JRC	4/11/83
3	PC-84 BELT PRESS WIRING RAK 2/60		JRC	RAK		3/1/60
2	FOR CONSTRUCTION JOB 2/24/78		JRC	JRC		2/24/78
1	FOR APPROVALS TDA 3/31/76		TDA	J.R.C.		2/3/78

PROJECT SUPERVISOR: Joel Thomas — APPROVED: T. A. Austin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS ANITARY DISTRICT
CONTROL BUILDING
ELEMENTARY DIAGRAMS MCC

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 49 BP

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229

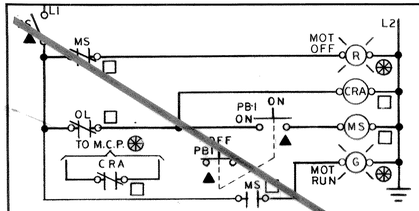
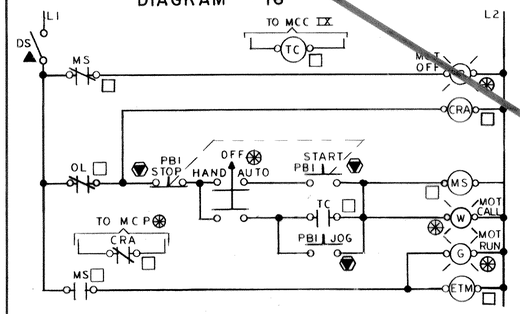


DIAGRAM # 16



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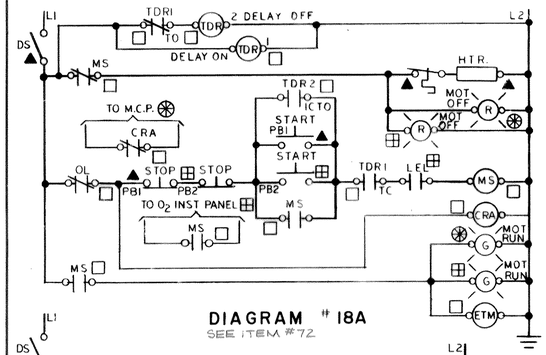


DIAGRAM # 18A
SEE ITEM #72

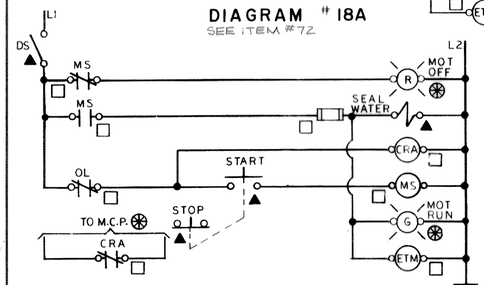
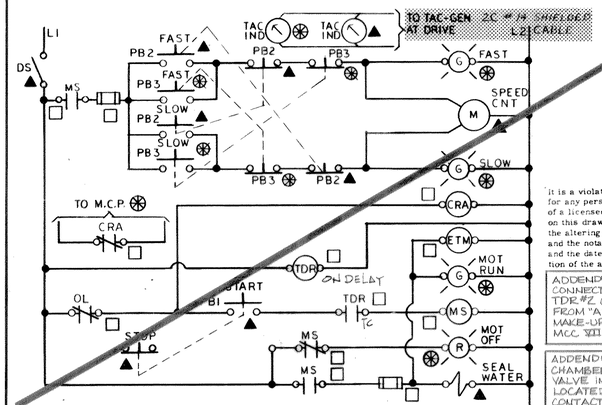


DIAGRAM # 19



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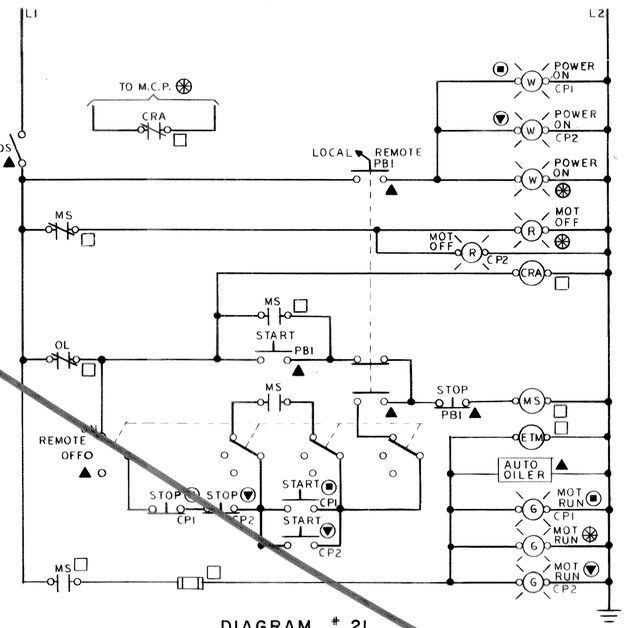
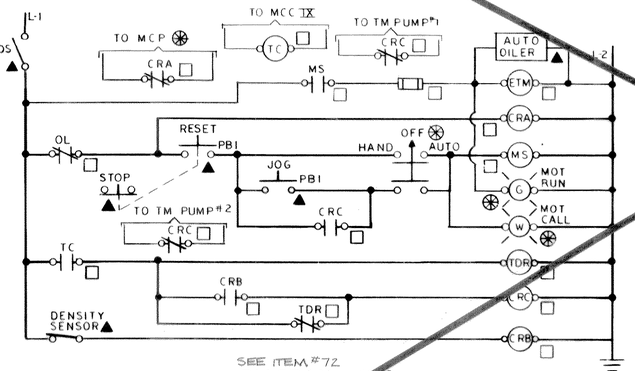
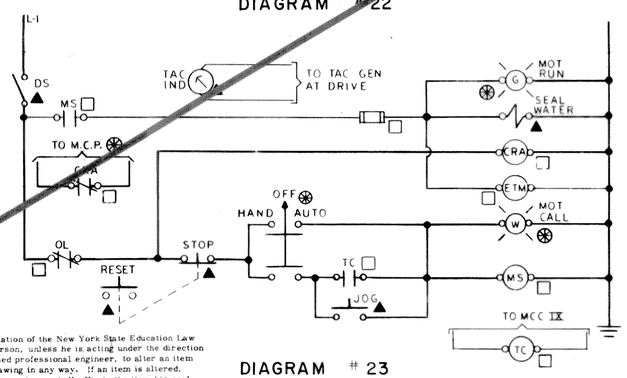


DIAGRAM # 21
SEE ITEM #72



SEE ITEM #72
DIAGRAM # 22



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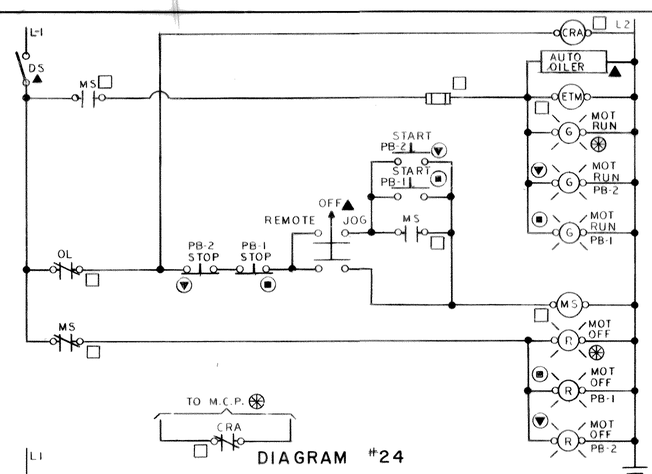

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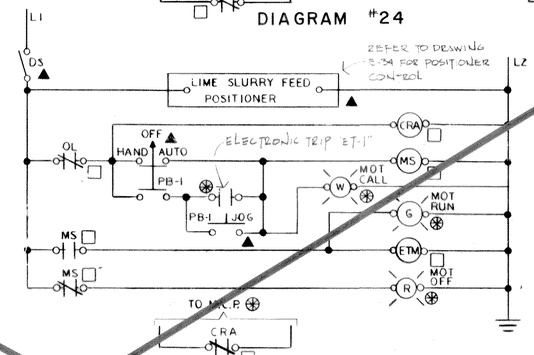

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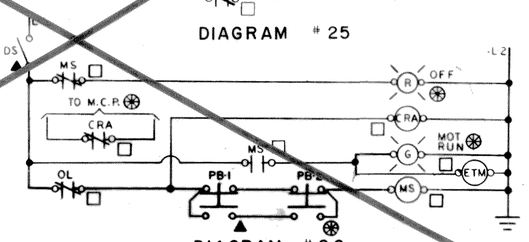

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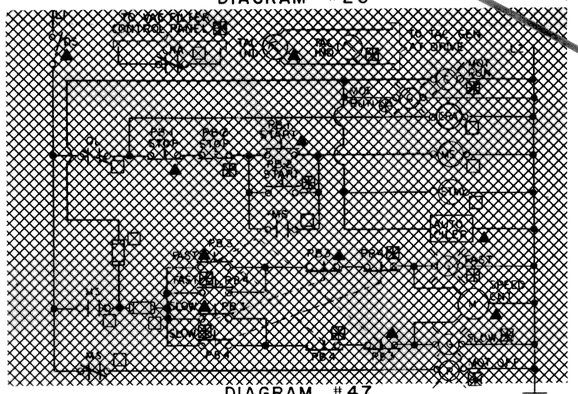
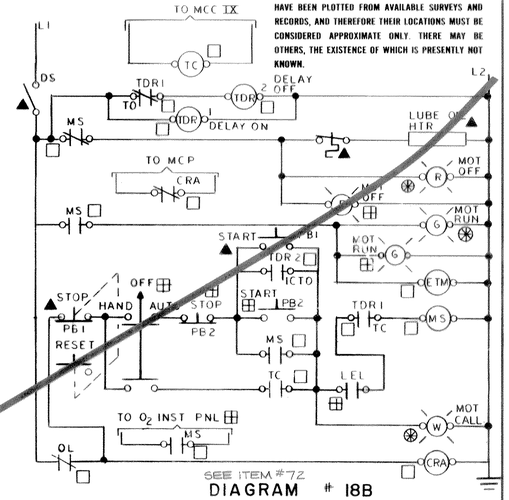


DIAGRAM # 47

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SEE ITEM #72
DIAGRAM # 18B

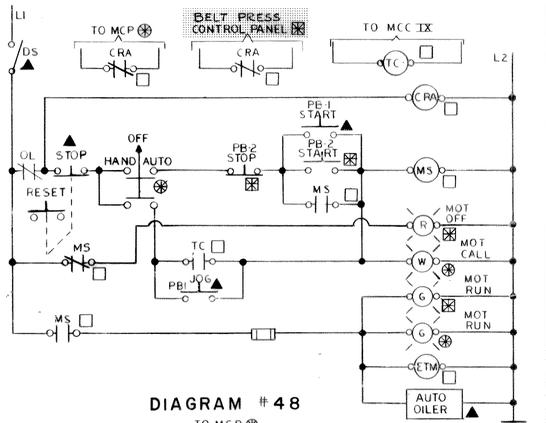


DIAGRAM # 48

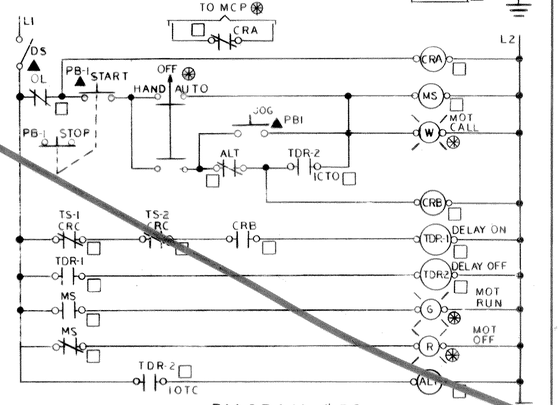


DIAGRAM # 50
REVISED - ADDENDUM #4

FOR DIAGRAM # 5? SEE DRAWING # 35
FOR DIAGRAM # 5 | SEE DRAWING # 23

THIS SHEET VOID - SEE SQUARE D CO. RECORD DRAWINGS.

"It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

ADDENDUM #4 - DIAGRAM #50: ADD: PROVIDE ADDITIONAL CONNECTION FROM L1 (LOAD SIDE OF DS CONTACT) TO TDR #2 (TIME DELAY RELAY). ADD: PROVIDE CONNECTION FROM "ALT" (ALTERNATOR) TO ITEM #109 THICKENER MAKE-UP PUMP #2, TDR #2 CONTACT (IOTC) LOCATED IN MCC XII.

ADDENDUM ITEM NO. 177: DELETE DIAGRAM #17 (GRIT CHAMBER BLOWER #2) DIAGRAM #50, ADD SOLENOID VALVE IN PARALLEL WITH MOT. RUN LIGHT VALVE LOCATED AT DRIVE. ADD FUSE BETWEEN N.O. MS CONTACT & MOT. RUN LIGHT, FUSE TO PROTECT MOT. RUN LIGHT & SOLENOID VALVE.

ADDENDUM ITEM NO. 72: PROCESS STRUCTURE ELEMENTARY DIAGRAMS MCC IX & XII - DIAGRAM #18A & 18B: PROVIDE ADDITIONAL CONNECTION FROM RESPECTIVE L1 (LOAD SIDE OF DS CONTACT) TO RESPECTIVE TDR #2 (TIME DELAY RELAY). DIAGRAM #21: ADD: MOTOR OFF LIGHT AT CP1 LOCATED AT SCUM PIT. DIAGRAM #22: ADD: PROVIDE ADDITIONAL CONNECTION FROM L1 (LOAD SIDE OF DS CONTACT) TO TDR (TIME DELAY RELAY)

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD JRD	9/14/83	RAK	JRC		4/14/83
3	PC-84 BELT PRESS WIRING RAK	2/80	JRC	RAK	LS	3/9/80
2	FOR CONSTRUCTION JOB	12/24/78	JRC	JRC	SJB	2/21/78
1	FOR APPROVALS TBA	9/31/78	TBA	J.R.C.	SJB	2/3/78

PROJECT SUPERVISOR: Joel Stevens — APPROVED: S.C. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ELEMENTARY DIAGRAMS MCC V & VI

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E 50 BP

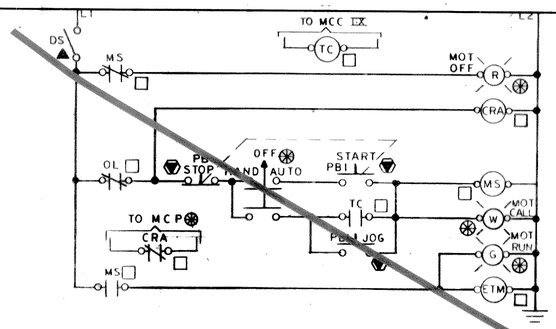


DIAGRAM # 27

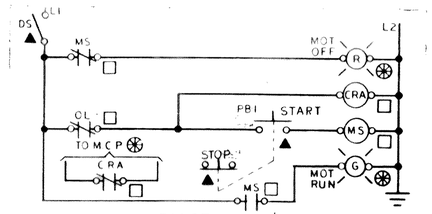
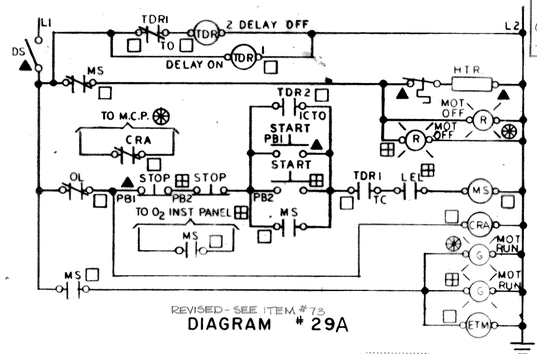
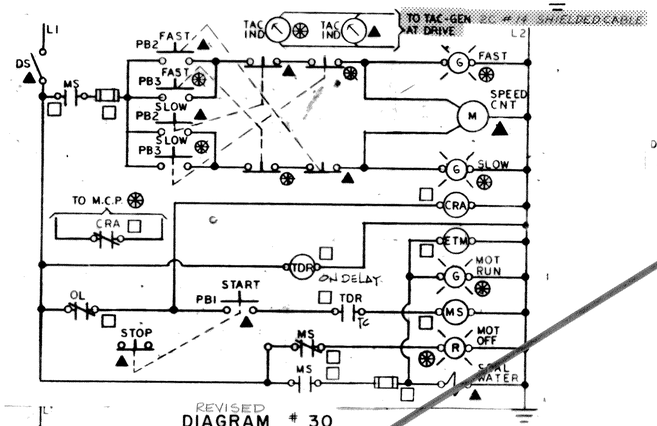


DIAGRAM # 28



REVISED - SEE ITEM #73
DIAGRAM # 29A



REVISED
DIAGRAM # 30

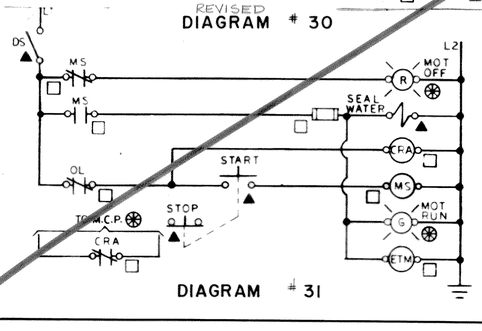


DIAGRAM # 31

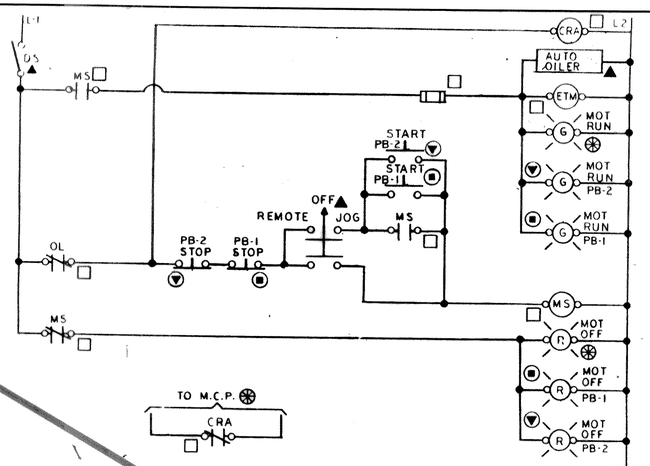


DIAGRAM # 32

ADDENDUM ITEM NO. 73: PROCESS STRUCTURE ELEMENTARY DIAGRAM MCC VII - DIAGRAM #29A #29B: PROVIDE ADDITIONAL CONNECTION FROM RESPECTIVE L1 (LOAD SIDE OF DS CONTACT) TO RESPECTIVE TDR#2 (TIME DELAY RELAY). DIAGRAM #54: CHANGE THE NORMALLY CLOSED TIME CLOCK CONTACT (TC) TO NORMALLY OPEN. ADD: PROVIDE ADDITIONAL CONNECTION FROM L1 (LOAD SIDE OF DS CONTACT) TO TDR (TIME DELAY RELAY). DIAGRAM #55: PROVIDE ADDITIONAL CONNECTION FROM L1 (LOAD SIDE OF DS CONTACT) TO TDR#2 (TIME DELAY RELAY) PROVIDE (1) ADDITIONAL TDR#2 CONTACT I.O.T.C. PROVIDE CONNECTION FROM NEW CONTACT TO ALTERNATOR SHOWN IN DIAGRAM #50, ITEM #108, THICKENER MAKE-UP PUMP #1, IN M.C.C. VII

ADDENDUM ITEM NO. 178: DELETE DIAGRAM #27 (GRIT CHAMBER BLOWER #1) DIAGRAMS #46 & #55: ADD SOLENOID VALVE IN PARALLEL WITH MOT. RUN LIGHT. VALVE LOCATED AT DRIVE. ADD FUSE BETWEEN N.O. MS CONTACT & MOT. RUN LIGHT. FUSE TO PROTECT MOT. RUN LIGHT, SOLENOID VALVE & OIL DIAGRAM #46, ELAPSED TIME METER.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

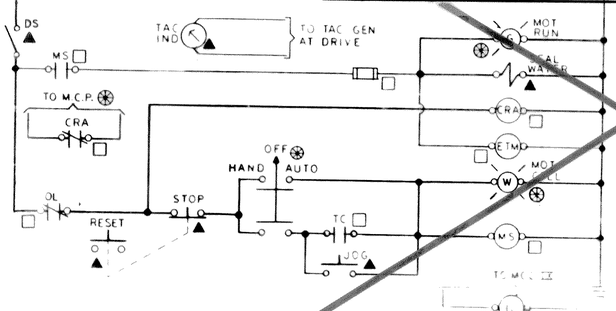


DIAGRAM # 33

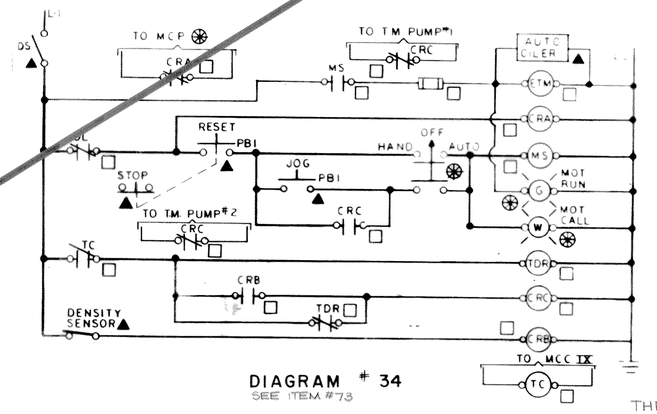


DIAGRAM # 34
SEE ITEM #73

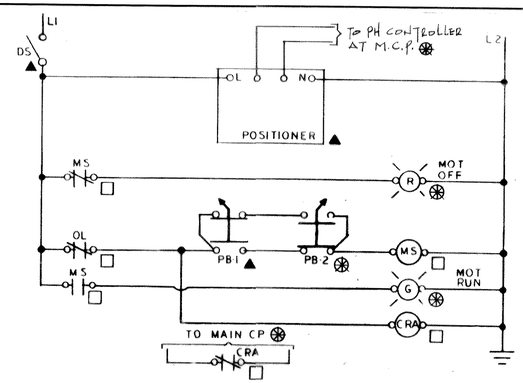


DIAGRAM # 35

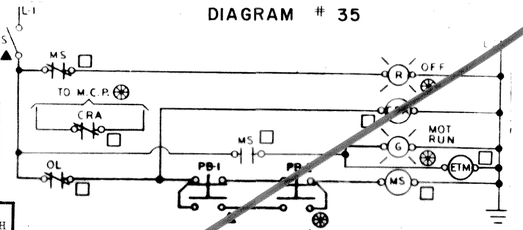


DIAGRAM # 36

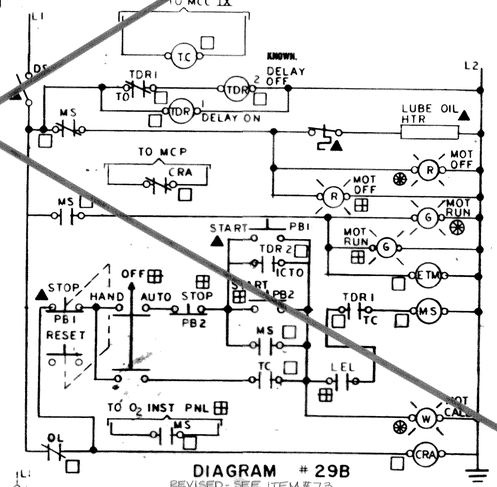


DIAGRAM # 29B
REVISED - SEE ITEM #73

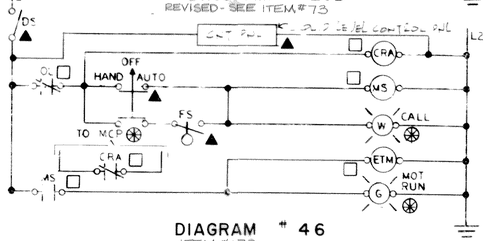
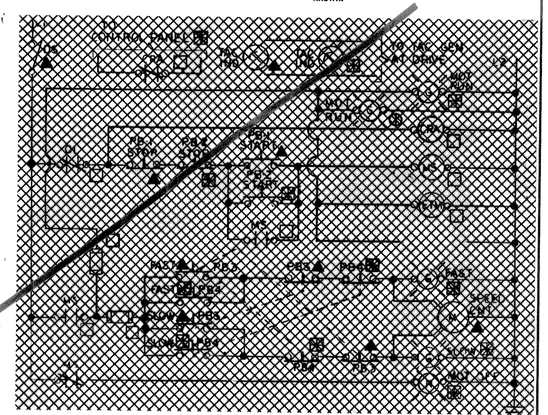


DIAGRAM # 46
ITEM #178


TO MCC IX
TC
CONTROL PANEL
PB-1 START
PB-2 STOP
TO TAC GEN AT DRIVE
MOT RUN
ETM
CRA
MS
MOT OFF
R
MOT CALL
W
MOT RUN
G
ETM
AUTO OILER
MS
MS
MOT OFF
R
MOT OFF
R
MOT OFF
R

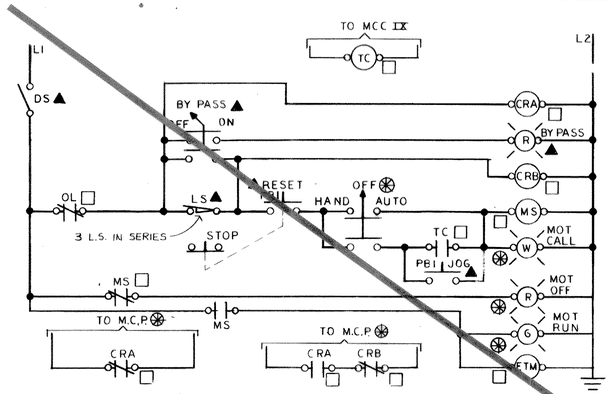


DIAGRAM # 37

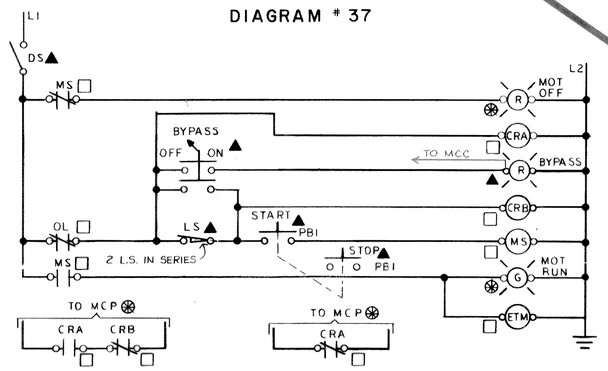
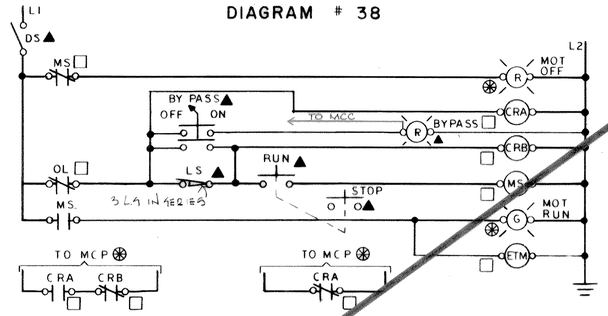


DIAGRAM # 38



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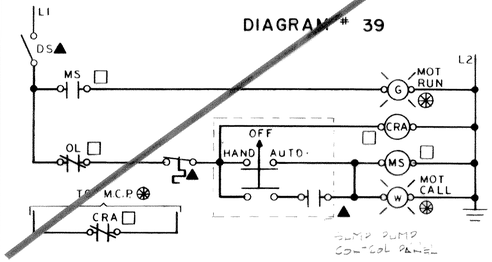
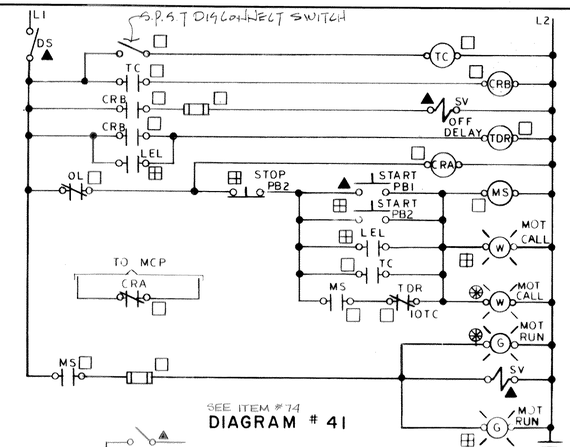
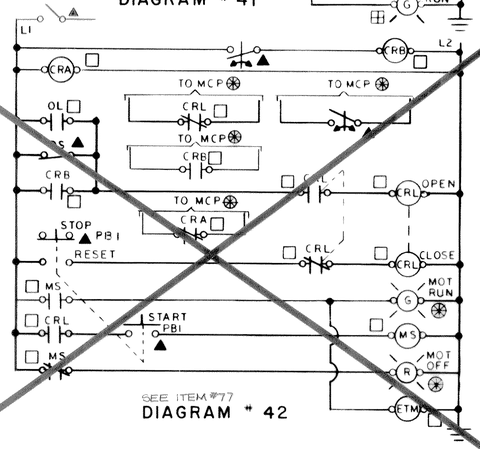


DIAGRAM # 40



SEE ITEM #74

DIAGRAM # 41



SEE ITEM #77

DIAGRAM # 42

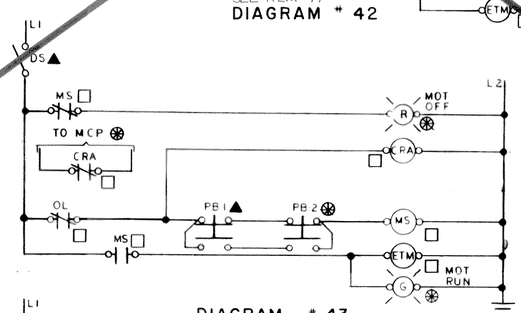


DIAGRAM # 43

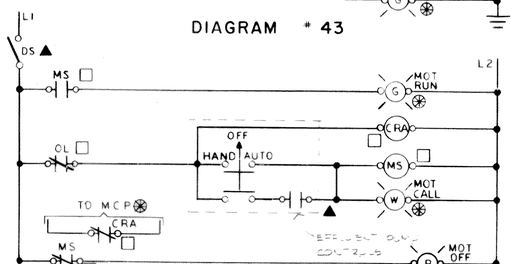


DIAGRAM # 49
120V CONTROL POWER TO EFF. PUMP C.P.

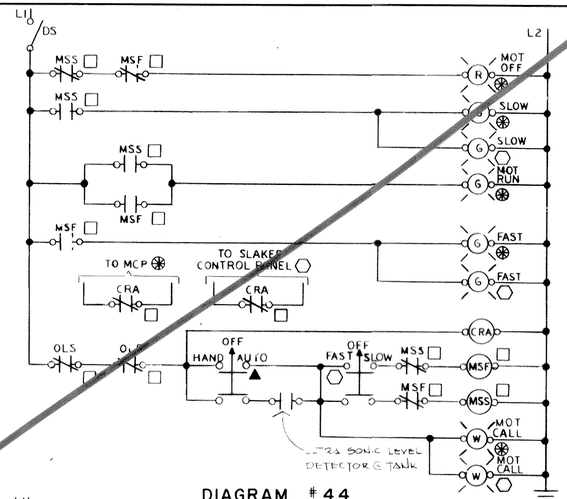


DIAGRAM # 44

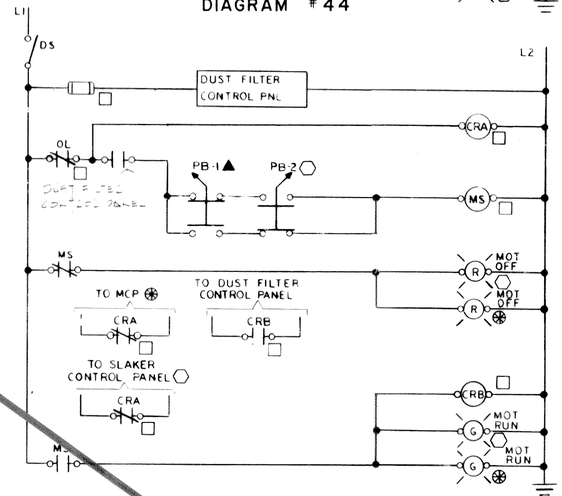


DIAGRAM # 45

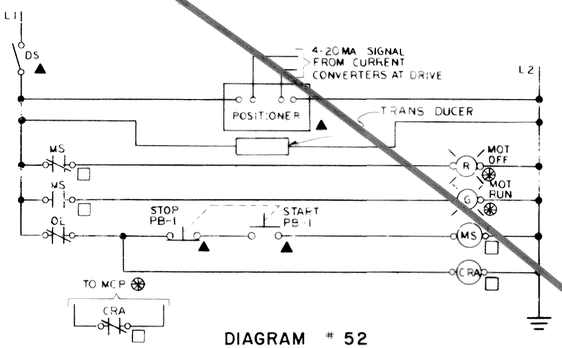


DIAGRAM # 52

ELEMENTARY DIAGRAM LEGEND

- ▲ LOCATED AT MOTOR
- LOCATED AT REGULATOR CONTROL PANEL
- LOCATED AT MAIN CONTROL PANEL RX A-202
- LOCATED AT RAW WASTEWATER PUMP CONTROL PANEL
- LOCATED AT MANUAL VALVE OPERATOR
- □ LOCATED AT MOTOR CONTROL CENTER
- ▨ LOCATED AT BELT PRESS CONTROL PANEL
- ⊞ LOCATED AT OXYGEN INST. CONTROL PANEL
- ▼ LOCATED AT GRIT CHAMBER

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PANEL SCHEDULE

PANEL PLP-1E
LOCATION: GAL#1 MOUNTING: SURFACE
POWER CHARACTERISTICS: 208/120
MINIMUM INTERRUPTING CAPACITY:
MAINS: 100 AMP 30A-3P MCB
POLE SPACES:

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	Roll-up Doors	20	2	100A	GRIT BLDG	
2	Exh Fan #11	20	1		"	
3	Exh Fan #12	20	1		"	
4	Outlet	20	1		"	
5	Wastewater Sam	20	1		GAL #1	
6	Outlet	20	1		"	
7	Outlet	20	1		"	
8	Outlet	20	1		"	
9	Outlet	20	1		"	
10	Outlet	20	1		"	
11	Outlet	20	1		GAL #2	
12	Outlet	20	1		"	
13	Outlet	20	1		"	
14	Sump Pump Cont.	20	1		"	
15	Outlet	20	1		"	
16-19	SPARES	20	1	100A		

PANEL SCHEDULE

PANEL PLP-CEE
LOCATION: Cont. Rm. MOUNTING: SURFACE
POWER CHARACTERISTICS: 480/277
MINIMUM INTERRUPTING CAPACITY: 22,000
MAINS: 225A
POLE SPACES: 9-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	LIGHTING	20	1	100A	CONTROL RM	
2	LIGHTING	20			ON GEN RM	
3	LIGHTING	20			"	
4	LIGHTING	20			GAL #3	
5	LIGHTING	20			"	
6	TRANS TEE	60	3		CONTROL RM	
7	W/S #2 FAN	100	3		PROCESS STEAM MECH RM	
8-13	SPARES	20	1	100A		

ADDENDUM ITEM NO. 74: PROCESS STRUCTURE ELEMENTARY DIAGRAMS MCC VIII & IX - DIAGRAM #41: PROVIDE ADDITIONAL CONNECTION FROM L1 (LOAD SIDE OF DS CONTACT TO TDR (TIME DELAY RELAY)

ADDENDUM ITEM NO. 77: PROCESS STRUCTURE ELEMENTARY DIAGRAMS MCC VIII & IX - DIAGRAM: DELETE "DS" CONTACT SHOWN. ADD NORMALLY OPEN "DS" CONTACT AT A POINT IN L1 AHEAD OF TORQUE SWITCH CONNECTION. "DS" CONTACT SHALL OPEN & DE ENERGIZE CONTROL POWER CIRCUIT WHEN DISCONNECT SWITCH IS IN "OFF" POSITION.

ADDENDUM ITEM NO. 174: ADD DIAGRAM #17 AS SHOWN ON DWG. E-50 ADD DIAGRAM #27 AS SHOWN ON DWG. E-51.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

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VOID - DIAGRAMS THIS SHEET - SEE SQUARE D CO. RECORD DRAWINGS

MILLER · SIZING, P.C.
consulting engineers
490 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD JRD	4/4/83	RAK		JRC	4/4/83
3	PC-84 BELT PRESS WIRING RAK	2/80	JRC	RAK	JCS	2/19/80
2	FOR CONSTRUCTION JOB	2/24/78	JRC	JRC	SLB	2/24/78
1	FOR APPROVAL TBA	5/31/77	TBA	RLC	SLB	2/3/78

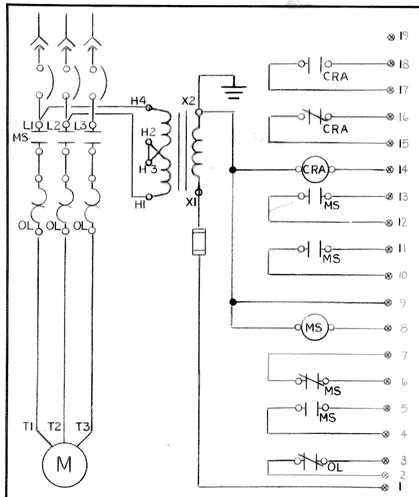
PROJECT SUPERVISOR: Joel Stevens APPROVED: S.G. Bruba

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
ELEMENTARY DIAGRAMS MCC VIII & IX

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E 52 BP

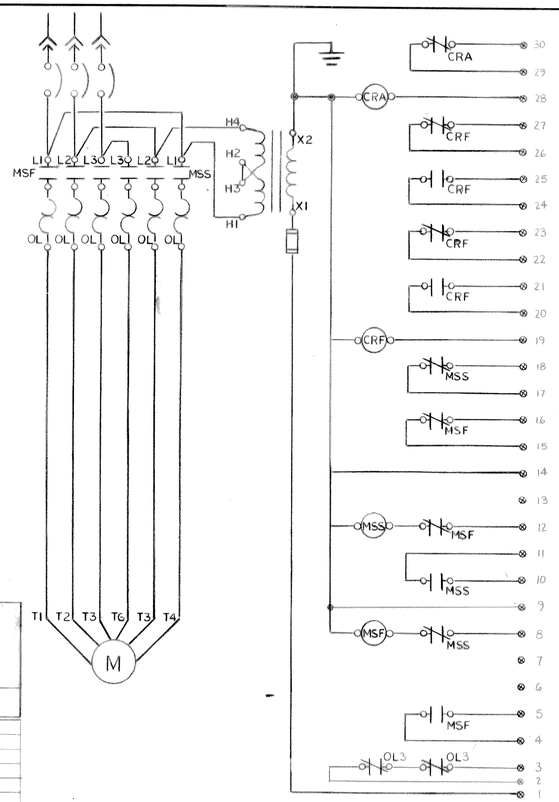


TYPICAL INTERNAL WIRING DIAGRAM
FOR F.V.N.R. STARTERS
(INTERNAL DIAGRAM A)

PANEL SCHEDULE

PANEL PLP-CRE MOUNTING: SURFACE MAINS: 225AMP 150A-3P MCB
LOCATION: PROCESS BLDG CONTROL ROOM
POWER CHARACTERISTICS: 208-120
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	SUMP PUMP CONT.	20	1	100A	GAL #7	
2	OUTLET	20	1		"	
3	OUTLET	20	1		"	
4	OUTLET	20	1		"	
5	OUTLET	20	1		"	
6	OUTLET	20	1		CONTROL RM	
7	OUTLET	20	1		"	
8	OUTLET	20	1		OXY. GEN RM	
9	OUTLET	20	1		"	
10	OUTLET	20	1		"	
11	OUTLET	20	1		GAL # 3	
12	OUTLET	20	1		ELEC. RM.	
13	TEMPCONT. P/L	20	1		PROCESS BLDG MECH	
14	CHEM FEED PUMP #1	20	1		"	
15	CHEM FEED PUMP #2	20	1		"	
16	OUTLET	20	1		OXY GEN. RM	
17	OUTLET	20	1		PROCESS BLDG MECH	
18	OUTLET	20	1		"	
19	TRANSMITTER	20	1		GAL #9	
20	TRANSMITTER	20	1		"	
21	RECEIVER	20	1		"	
22	OUTLET	20	1		"	
23	OUTLET	20	1		"	
24	TRANSMITTER	20	1		GAL # 3	
25	TRANSMITTER	20	1		"	
26	RECIEVER	20	1		"	
27	CAB. #1 REP	20	3		UPPER PROCESS STRUCT.	
28	CAB. PT-3	20	3		GAL # 4	
29	LIGHTING	20	1		UPPER PROCESS STRUCT.	
30	LIGHTING	20	1		"	
31	OUTLET	20	1		"	
32	OUTLET	20	1		"	
33	OUTLET	20	1		"	
34	LIGHTING	20	1		"	
35	LIGHTING	20	1		"	
36	OUTLET	20	1		"	
37	OUTLET	20	1		"	
38	SPARE	20	1			
39	LIGHTING	20	1		UPPER PROCESS STRUCT.	
40	OUTLET	20	1		"	
41	LIGHTING	20	1		"	
42	LIGHTING	20	1		"	
43	OUTLET	20	1		"	
44	OUTLET	20	1		"	
45	OUTLET	20	1		"	
46	LTG. TIME CLOCK	20	1		CONTROL RM.	
47	COOLER BASIN HTR.	20	2		PROCESS STRUCT MECH	
48	COOLER BASIN HTR.	20	2		"	SEE ITEM #180
49	COOLER BASIN HTR.	20	2		"	
50	COOLER #1 CONT.	20	1		"	
51	COOLER #2 CONT.	20	1		"	
52	T.S. DENSITY SEN.	20	1		GAL #2	
53	T.S. DENSITY SEN.	20	1		"	
54	SPARE	20	3			
55-58	SPARES	20	1	100A		

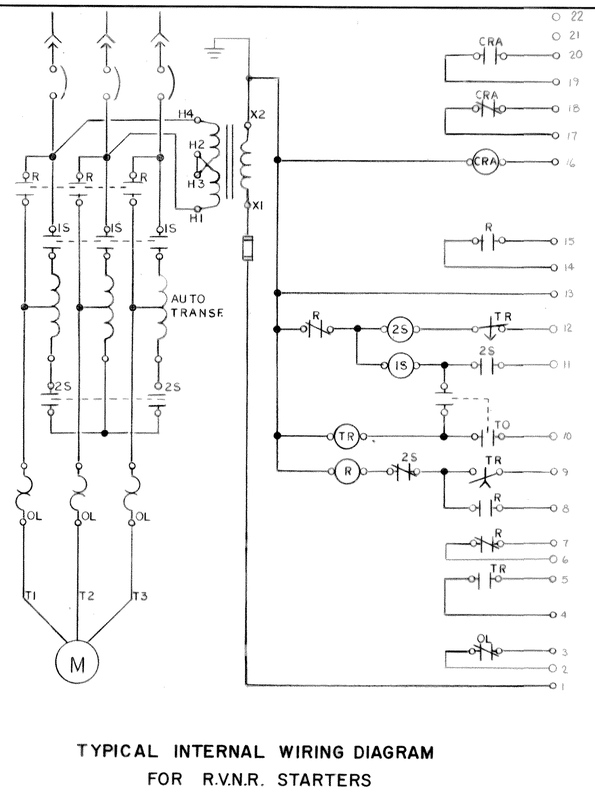


TYPICAL INTERNAL WIRING DIAGRAM
FOR M.S.N.R. STARTERS
(INTERNAL DIAGRAM "C")

PANEL SCHEDULE

PANEL PLP-8E MOUNTING: SURFACE MAINS: 100AMP 100A-3P MCB
LOCATION: GAL #8
POWER CHARACTERISTICS: 208/120
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: 4-1P

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	SEW. EJECT. ALARM	20	1	100A	GAL #8	
2	OUTLET	20	1		GAL #7	
3	TRANSMITTER	20	1		"	
4	TRANSMITTER	20	1		"	
5	RECIEVER	20	1		"	
6	RECIEVER	20	1		"	
7	SUMP PUMP CONT	20	1		GAL #8	
8	EYE WASH HTR	20	1		"	
9	EYE WASH HTR	20	1		"	
10	OUTLET	20	1		"	
11	OUTLET	20	1		"	
12	OUTLET	20	1		"	
13	WASTEWATER SUMP	20	1		"	
14	OUTLET	20	1		"	
15	OUTLET	20	1		"	
16	OUTLET	20	1		"	
17	OUTLET	20	1		Cl_2 BLDG	
18	CHLORINATOR	20	1		"	
19	CHLORINATOR	20	1		"	
20	OUTLETS	20	1		LIME STORAGE	
21	CABINET #2	20	3		UPPER PROCESS STRUCT	
22	CABINET #3	20	3		"	
23	LIGHTING	20	1		"	
24	LIGHTING	20	1		"	
25	OUTLET	20	1		"	
26	OUTLET	20	1		"	
27	LIGHTING	20	1		"	
28	LIGHTING	20	1		"	
29	OUTLET	20	1		"	
30	OUTLET	20	1		"	
31	LIGHTING	20	1		"	
32	LIGHTING	20	1		"	
33	OUTLET	20	1		"	
34	OUTLET	20	1		"	
35	LIGHT TIME CLOCK	20	1		GAL #8	
36	WT. INDICATOR	20	1		GAL #8	
37	CHLORITE DET	20	1		Cl_2 BLDG	
38	CHLORITE DET	20	1		Cl_2 BLDG	
39-44	SPARES	20	1	100A		

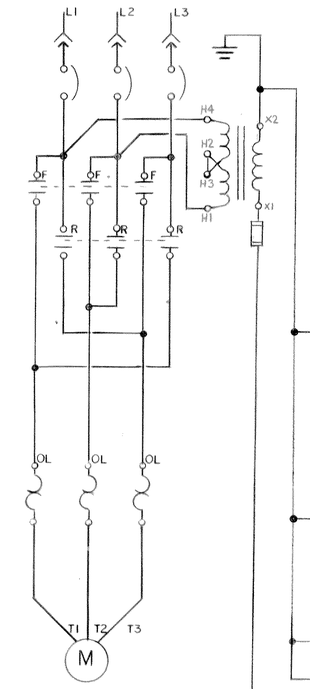


TYPICAL INTERNAL WIRING DIAGRAM
FOR R.V.N.R. STARTERS
(INTERNAL DIAGRAM D)

PANEL SCHEDULE

PANEL PLP-5E MOUNTING: SURFACE MAINS: 100AMP 60A-3P MCB
LOCATION: GAL #5
POWER CHARACTERISTICS: 208/120
MINIMUM INTERRUPTING CAPACITY: POLE SPACES:

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	SUMP PUMP CONT.	20	1	100A	GAL # 5	
2	TRANSMITTER	20	1		GAL # 6	
3	"	20	1		"	
4	RECIEVER	20	1		"	
5	OUTLET	20	1		GAL # 5	
6	"	20	1		"	
7	OUTLETS 2	20	1		"	
8	OUTLET WORK BENCH	20	1		"	
9	"	20	1		"	
10	SPARE	20	1			
11	TRANSMITTER	20	1		GAL # 5	
12	"	20	1		"	
13	RECIEVER	20	1		"	
14	"	20	1		"	
15	OUTLET	20	1		GAL # 6	
16	EYEWASH HTR	20	1		"	
17	OUTLETS 2	20	1		"	
18	OUTLET	20	1		"	
19	OUTLET	20	1		GAL # 7	
20	OUTLET	20	1		"	
21	BLANKET DET	20	1		UPPER PROCESS STRUCT	
22	"	20	1		"	
23	"	20	1		"	
24	"	20	1		"	
25	"	20	1		"	
26-30	SPARES	20	1	100A		



TYPICAL INTERNAL WIRING DIAGRAM
FOR F.V.R. STARTERS
(INTERNAL DIAGRAM B)

PANEL SCHEDULE

PANEL PLP-8E MOUNTING: SURFACE MAINS: 100 AMP
LOCATION: LOWER GAL #8
POWER CHARACTERISTICS: 277/480 3φ 4W
MINIMUM INTERRUPTING CAPACITY: 10,000 POLE SPACES: —

CIRCUIT NUMBER	SERVICE	CIRCUIT BREAKERS AMPS	POLES	FRAME	LOCATION	REMARKS
1	LTG GAL #3 & LIME	20	1	100A	LIME STORAGE	
2	"	20	1		GAL #8	
3	LIME STORAGE	20	1		CHLORINE BLDG	
4	SEWAGE EJECT.	15	3		GAL #8	
5	FAN #21	15	3		GAL #8	
6	FAN #15	15	3		CHLORINE BLDG	
7	FAN #16	15	3		"	
8	FAN #17	15	3		"	
9	FAN #14	15	3		LIME STORAGE	
10	TRANS.	40	3		GAL #8	
11-16	SPARES	20	1	100A		

NOTE:
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ADDENDUM ITEM NO. 76:
ELECTRICAL DIAGRAMS & DETAILS
- DELETE INTERNAL DIAGRAMS A, B, C, & D SHOWN.
- ADD THE FOLLOWING INTERNAL DIAGRAMS A, B, C, & D AS SHOWN ON FIGURES 1, 2, 3 & 4 OF THIS ADDENDUM NO. 4.

ADDENDUM ITEM NO. 180:
PANEL SCHEDULE
PANEL "PLP-CRE"
- CIRCUITS #47 48 & 49 CHANGE FROM 30A 1P CIRCUIT BREAKERS TO 20A 2P CIRCUIT BREAKERS.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

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R. J. Miller

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consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER
STERLING G. BARTON
21810
OF THE STATE OF NEW YORK

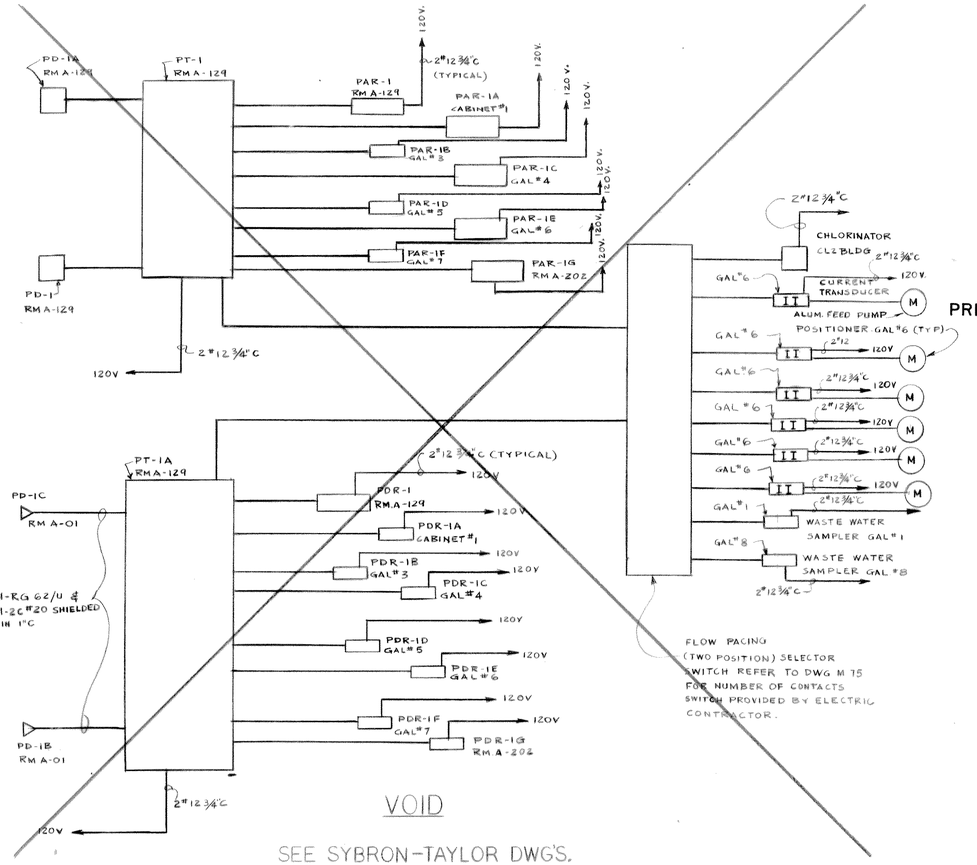
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
	JRD	4/4/83	BAK			
2	FOR CONSTRUCTION				SGB	2/20/78
	JOB	2/20/78	JRC	JRC		
1	FOR APPROVALS				SGB	2/3/78
	JOB	2/3/78	JOB	JRC		

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S.G. Barton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
ELECTRICAL
DIAGRAMS & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E-53

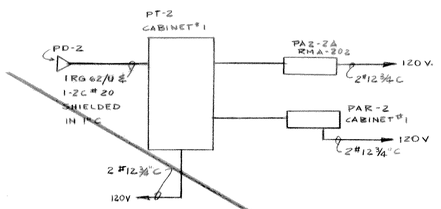


RAW SEWAGE METERING INTERCONNECTION DIAGRAM.

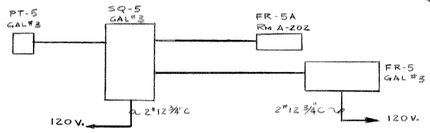
VOID

SEE SYBRON-TAYLOR DWG'S.

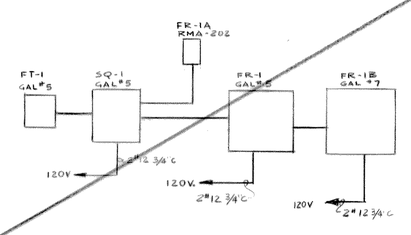
FLOW PACING (TWO POSITION) SELECTOR SWITCH. REFER TO DWG M 15 FOR NUMBER OF CONTACTS SWITCH PROVIDED BY ELECTRIC CONTRACTOR.



PRIMARY SETTLING TANK & 2ND STAGE AERATION INTERCONNECTION DIAGRAM

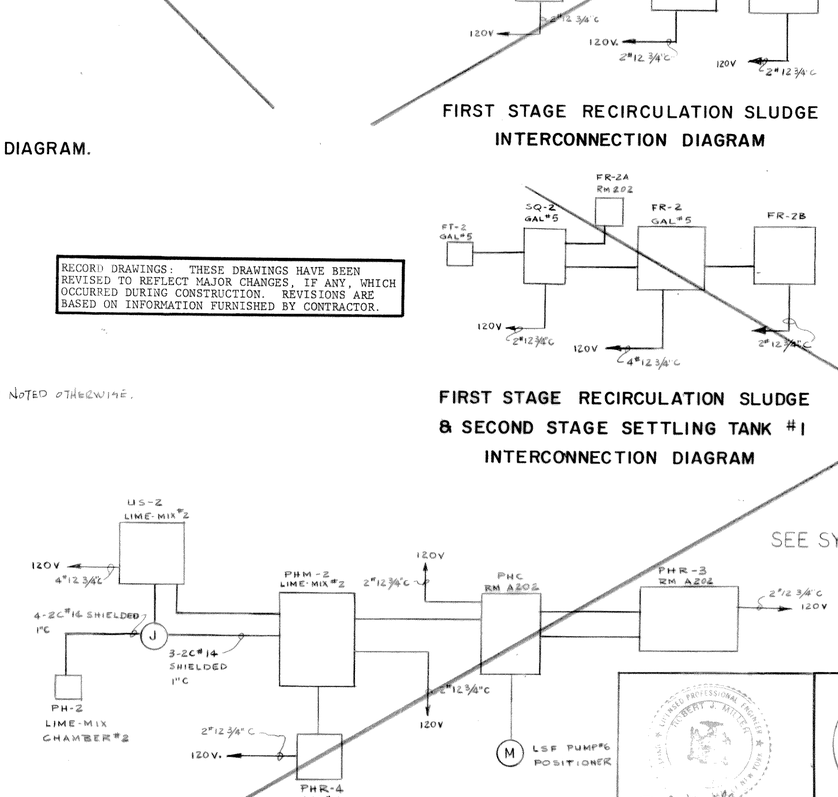


THICKENER OVERFLOW & 2ND STAGE AERATION INTERCONNECTION DIAGRAM

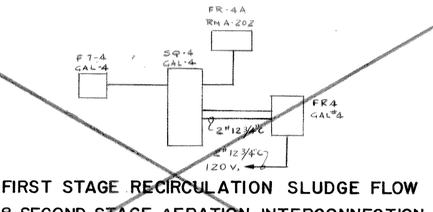


FIRST STAGE RECIRCULATION SLUDGE INTERCONNECTION DIAGRAM

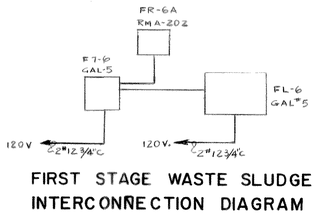
FIRST STAGE RECIRCULATION SLUDGE & SECOND STAGE SETTLING TANK #1 INTERCONNECTION DIAGRAM



PH CONTROL LIME MIXING CHAMBER #2 INTERCONNECTION DIAGRAM



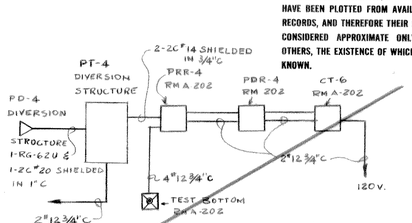
FIRST STAGE RECIRCULATION SLUDGE FLOW & SECOND STAGE AERATION INTERCONNECTION DIAGRAM



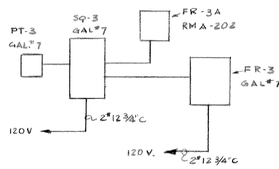
FIRST STAGE WASTE SLUDGE INTERCONNECTION DIAGRAM

VOID

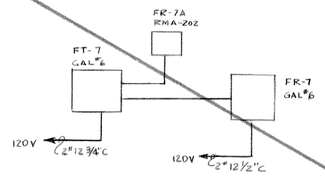
SEE SYBRON-TAYLOR DWG'S.



PLANT BY PASS INTERCONNECTION DIAGRAM

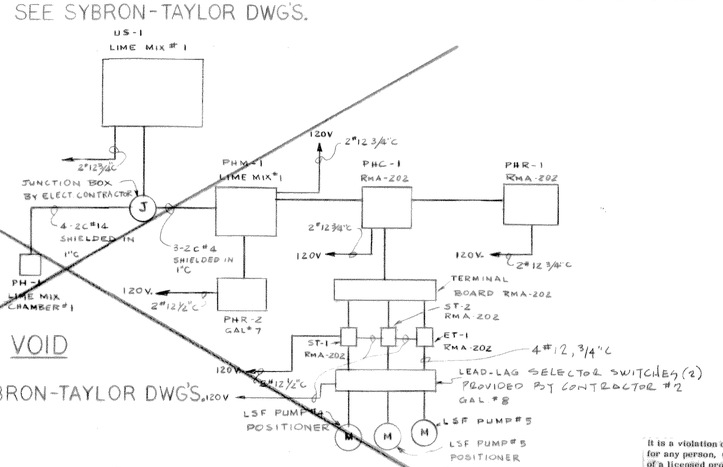


THICKENER MAKE UP & SECOND STAGE SETTLING EFFLUENT INTERCONNECTION DIAGRAM



SECOND STAGE WASTE SLUDGE INTERCONNECTION DIAGRAM

SEE SYBRON-TAYLOR DWG'S.



PH CONTROL LIME MIXING CHAMBER #1 INTERCONNECTION DIAGRAM

VOID

SEE SYBRON-TAYLOR DWG'S.

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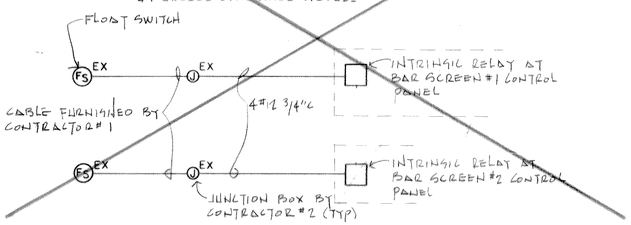
NOTES (ALL DIAGRAMS THIS DWG)

1 ALL WIRING SHALL BE 1-2C #14 SHIELDED COPPER CABLE IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
2 ALL WIRING AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
3 ALL EQUIPMENT SHOWN SHALL BE PROVIDED BY CONTRACTOR #1 UNLESS OTHERWISE NOTED.



BAR SCREEN FLOAT SWITCH CONNECTION DIAGRAM

VOID

SEE SYBRON-TAYLOR DWG'S.

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consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

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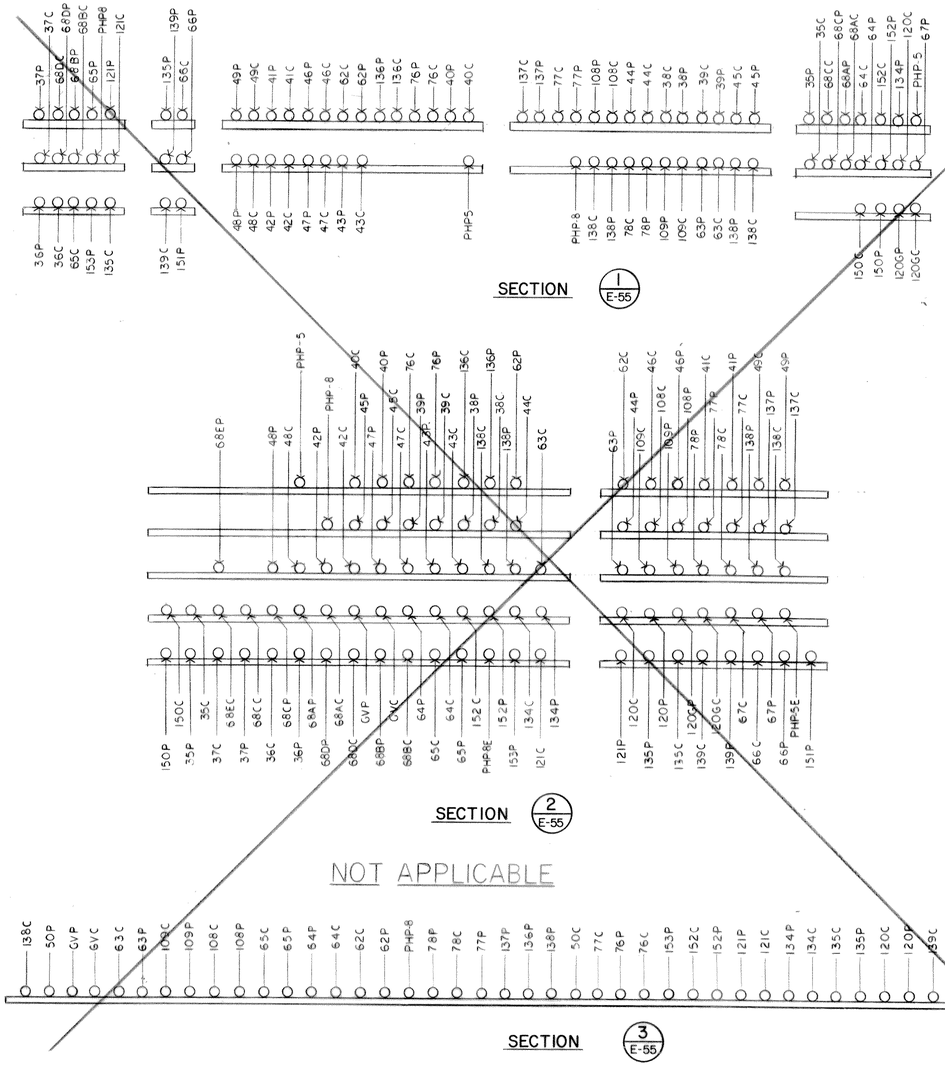
3	RECORD JRD 4/4/83		RAK		JRC	4/4/83
2	FOR CONSTRUCTION JOB 2/24/78		JRC	JRC	GGB	2/24/78
1	FOR APPROVALS JOB 2/3/78		JOB 2/3/78	JRC	GGB	2/3/78

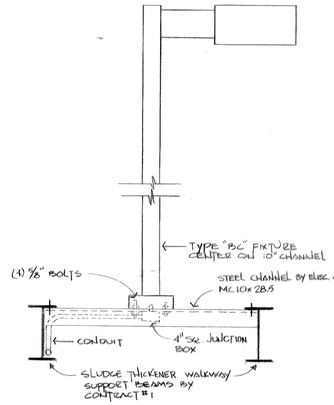
PROJECT SUPERVISOR: Jack Swanger
APPROVED: S. G. Bruslin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE – SENECA KNOLLS SANITARY DISTRICT
ELECTRICAL
DIAGRAMS & DETAILS

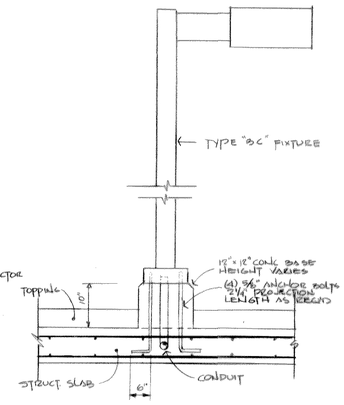
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 2 SHEET E-54



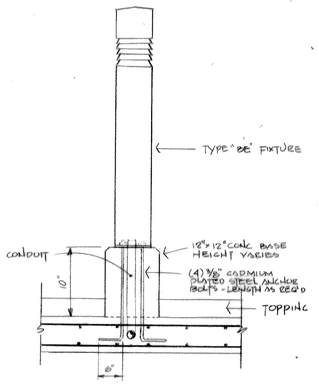


TYPE "BC" MOUNTING ON SLUDGE THICKENER TANK WALKWAYS



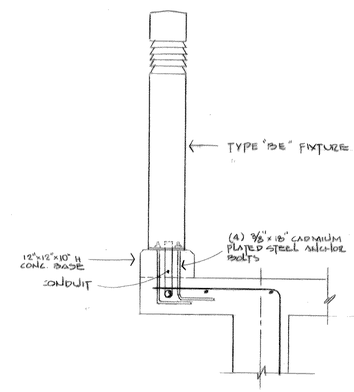
TYPICAL TYPE "BC" MOUNTING DETAIL ON STRUCTURAL SLABS

SCALE 3/4" = 1'-0"



TYPICAL TYPE "BE" MOUNTING DETAIL (EXCEPT AT SETTLING TANK WALKWAY)

SCALE 3/4" = 1'-0"



TYPE "BE" MOUNTING DETAIL FOR PRIMARY 1st STAGE & 2nd STAGE SETTLING TANK WALKWAY

SCALE 3/4" = 1'-0"

NOTE:
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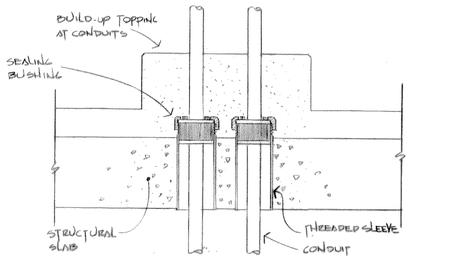
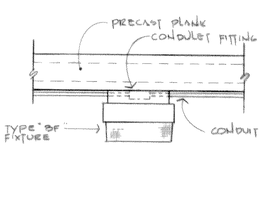


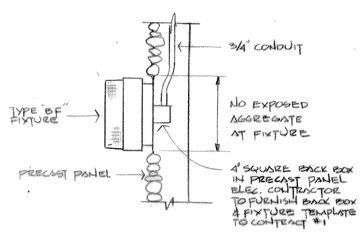
TYPICAL CONDUIT PENETRATION OF PROCESS STRUCT. DECK

SCALE 1/2" = 1'-0"



TYPE "BF" FIXTURE CEILING MOUNTING DETAIL

SCALE 3/4" = 1'-0"



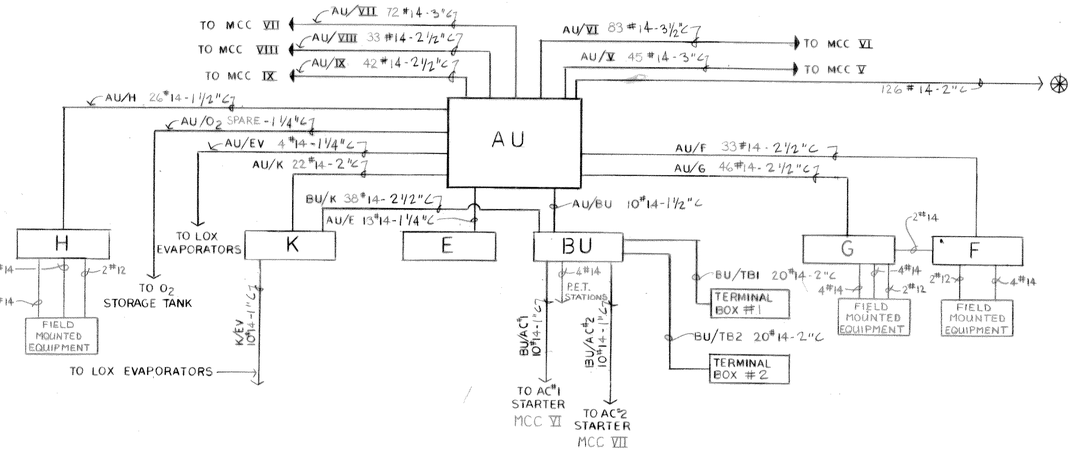
TYPE "BF" FIXTURE WALL MOUNTING DETAIL

SCALE 3/4" = 1'-0"

ADDENDUM ITEM NO. 182:
ALL LIGHTING FIXTURE MOUNTING DETAILS:
- CONCRETE BASES, PRECAST PLANK, PRECAST PANELS, REINFORCING, AND POURED CONCRETE BY CONTRACTOR #1 UNLESS OTHERWISE NOTED.
- LIGHTING FIXTURES ANCHOR BOLTS CONDUIT AND MISCELLANEOUS ELECTRIC EQUIPMENT BY CONTRACTOR #2.

ADDENDUM ITEM NO. 80:
MOUNTING DETAILS ON STRUCTURAL SLAB FOR LIGHT FIXTURES AND CONDUIT PENETRATIONS - ADD THE FOLLOWING NOTE:
"ALL MOUNTS FOR DOUBLE-SLAB DECKS WITH WATERPROOF MEMBRANE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TYPE AND SIZING OF ANCHORAGE SHALL BE COORDINATED WITH THE APPROPRIATE CONTRACT AND MANUFACTURERS RECOMMENDED ANCHORAGE. TYPICAL DETAILS OF LIGHTING FIXTURES AND EQUIPMENT ANCHORAGE ARE SHOWN IN DETAILS NO. 9 AND NO. 10 OF SHEET G-14."

NOTE:
ELECTRICAL CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF ELECTRIC BOXES TO BE CAST INTO PRECAST AGGREGATE PANELS & PRECAST FASCIA PANELS, TO ENGINEER FOR APPROVAL OF FIXTURE LOCATION.



O_2 SYSTEM ANALYZER PANELS INTERCONNECTING DIAGRAM

½" = 1'0"

¾" = 1'0"

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

R. J. Miller

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

STERLING G. BENSON LICENSED PROFESSIONAL ENGINEER 31810 STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD				JRC	4/4/83
	JED	4/4/83	RAK			
2	FOR CONSTRUCTION				SGB	2/24/78
	JOB	2/24/78	JRC	JRC		
1	FOR APPROVALS				SGB	2/3/78
	JOB	2/3/78	JOB	JRC		

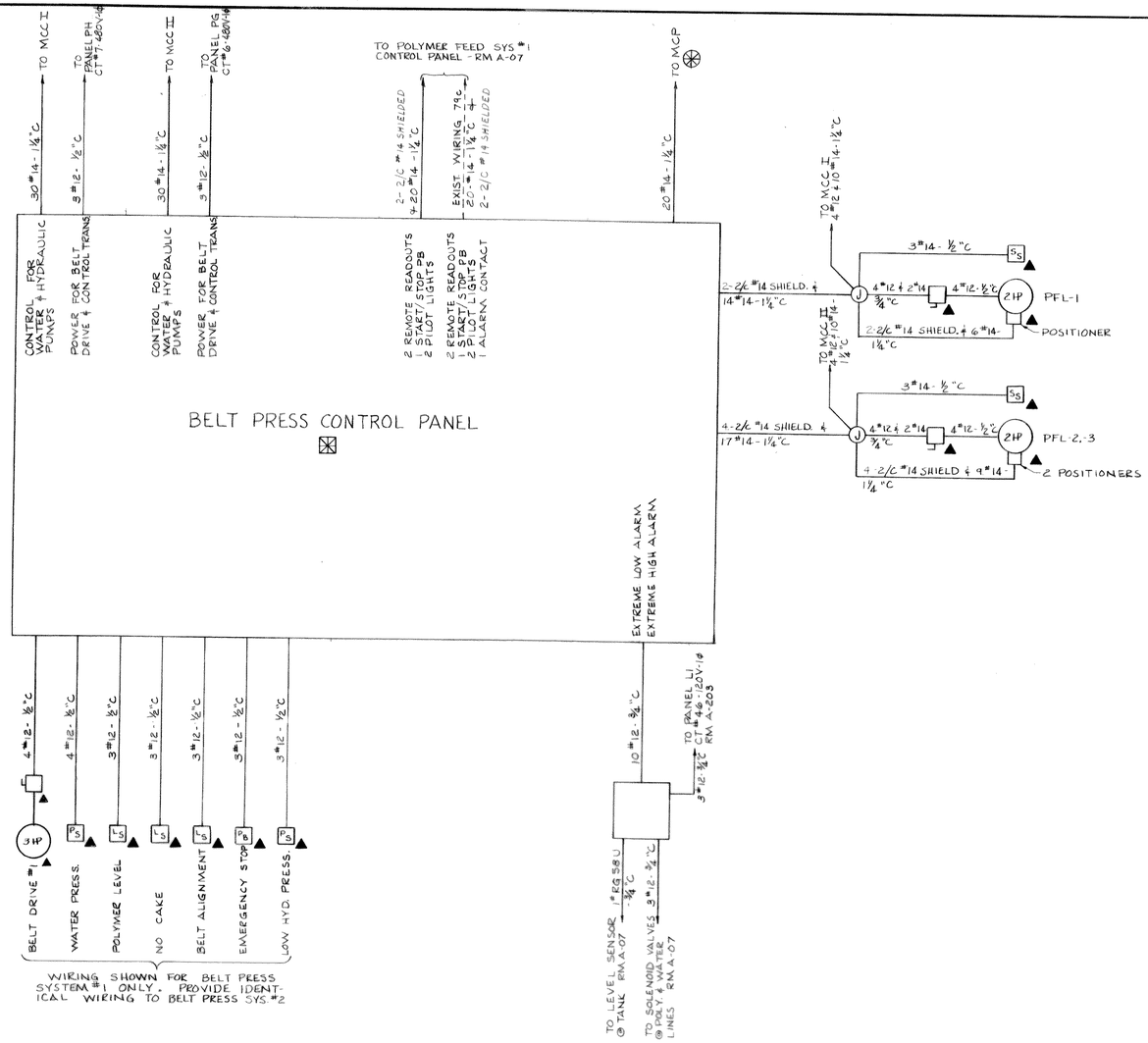
PROJECT SUPERVISOR: J. Stevenson — APPROVED: S. G. Benson

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE—SENECA KNOLLS SANITARY DISTRICT
ELECTRICAL
DIAGRAMS & DETAILS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 2 | SHEET E-55

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.



BELT PRESS WIRING DIAGRAM

-ALSO REFER TO SIMON ASHBROOK HARTLEY DRAWINGS FOR ADDITIONAL INFORMATION.

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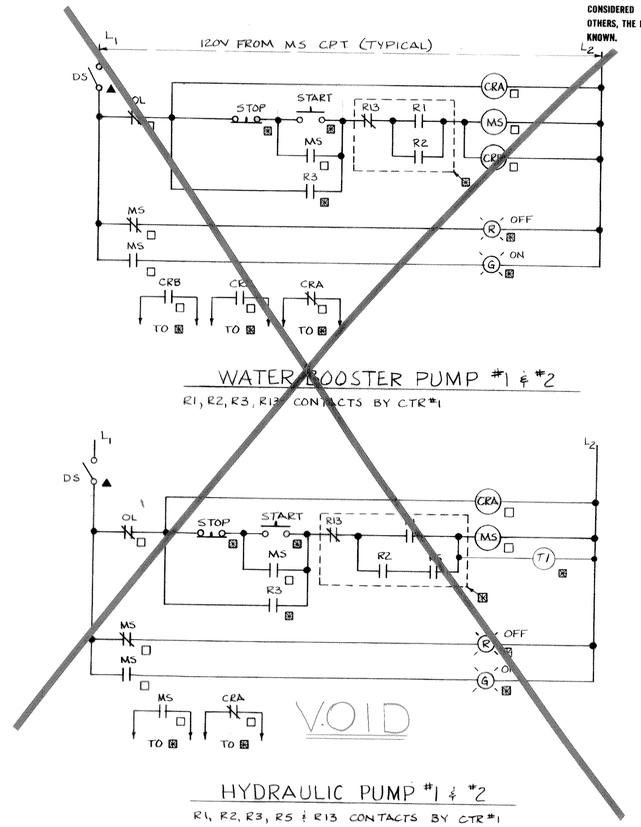

WATER BOOSTER PUMP #1 & #2

R1, R2, R3, R13 CONTACTS BY CTR #1

HYDRAULIC PUMP #1 & #2

R1, R2, R3, R5 & R13 CONTACTS BY CTR #1

-VOID- SEE SQUARE D CO. MCC RECORD DRAWINGS

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MILLER ENGINEERS P.C.
MECHANICAL · ELECTRICAL · STRUCTURAL
P.O. Box 126
Brewerton, N. Y. 13029

JOEL L. SWANSON — LICENSED PROFESSIONAL ENGINEER — NO. 46353 — STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD				JRC	4/4/83
1	JRD	4/4/83	RAK		JCS	3/14/83
	PC-84 BELT PRESS WIRING					
	RAK	2/80	RJC	RAK		

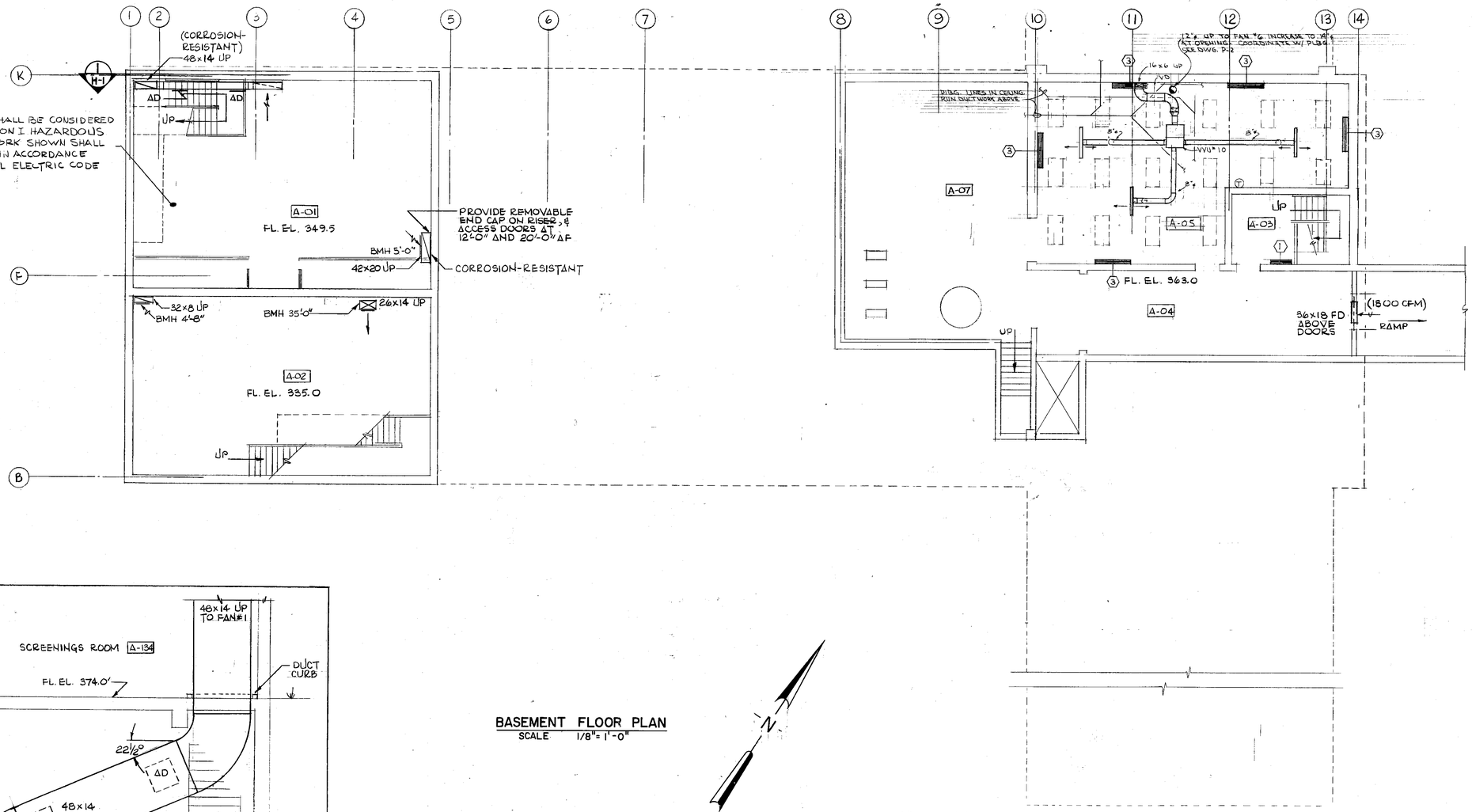
PROJECT SUPERVISOR: Frank Dennis
APPROVED: Joel Swanson

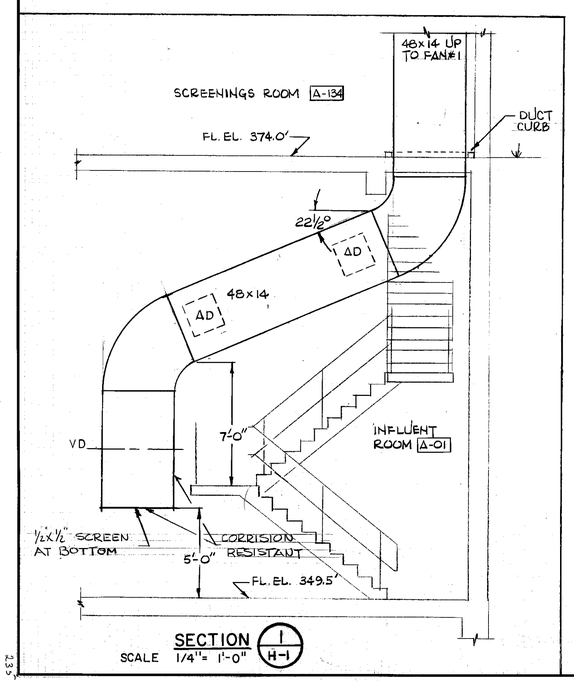
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

BELT PRESS WIRING DIAGRAMS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — DARIEN, CONNECTICUT

JOB NO. 577/889 | CONTRACT NO. 2 | SHEET E 56 BP





SECTION I/H-1
SCALE 1/4"= 1'-0"

BASEMENT FLOOR PLAN
SCALE 1/8"= 1'-0"

NOTE:
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ABBREVIATIONS & SYMBOLS

A×B	SUPPLY DUCT (A×B)	—OR—	OIL RETURN
	RETURN OR EXHAUST DUCT	—OV—	OIL TANK VENT
	FLEXIBLE CONNECTION	—OG—	OIL GAUGE
	DUCT RISES	—G—	GAS.
	DUCT DROPS	—LS—	LOW PRESSURE STEAM
	SQUARE ELBOW W/VANES	--LR--	LOW PRESSURE CONDENSATE
	DAMPER (AS NOTED)	—MS—	MEDIUM PRESSURE STEAM
	FLEXIBLE DUCT	--MR--	MEDIUM PRESSURE CONDENSATE
	ACOUSTICAL LINING	—HS—	HIGH PRESSURE STEAM
	SPLITTER DAMPER	--HR--	HIGH PRESSURE CONDENSATE
	MULTI-BLADE AIR SCOOP	-CPD-	CONDENSATE PUMP DISCHARGE
	SA & RA OR EA TERMINAL (CFM-SIZE-TYPE)	BDD	BACKDRAFT DAMPER
	ACCESS DOOR	VD	VOLUME DAMPER
	BOTTOM CONNECTION	MD	MOTORIZED DAMPER
	TOP CONNECTION	FD	FIRE DAMPER
	ELBOW DOWN	SD	SMOKE DAMPER
	ELBOW UP	FSD	FIRE-SMOKE DAMPER
	UNION CONNECTION	SA	SUPPLY AIR
	FLANGE CONNECTION	RA	RETURN AIR
	CAP OR PLUG	EA	EXHAUST AIR
	REDUCER	OA	OUTDOOR AIR
	PIPE ANCHOR	PRE	POWER ROOF EXHAUSTER
	FLEXIBLE CONNECTION	BBR	BASEBOARD RADIATION
	STRAINER	ACU	AIR CONDITIONING UNIT
	EXPANSION JOINT	HVU	HEATING & VENTILATING UNIT
	STEAM TRAP	AHU	AIR HANDLING UNIT
	GATE VALVE	FCU	FAN & COIL UNIT
	GLOBE VALVE	UV	UNIT VENTILATOR
	BALANCING VALVE	CH	CABINET HEATER
	CHECK VALVE	UH	UNIT HEATER
	FLOW CONTROL VALVE	WIH	WALL INSEET HEATER
	PRESSURE REDUCING VALVE	AD	ACCESS DOOR
	SAFETY RELIEF VALVE		DOOR UNDERCUT
	TWO-WAY CONTROL VALVE		DOOR LOUVER (SQ.FT.FREE AREA SHOWN)
	THREE-WAY CONTROL VALVE	~~~~	WORK TO BE REMOVED
V	AIR VENT	CLG	CEILING
G	GAUGE	AF	ABOVE FLOOR
	THERMOMETER	CONN	CONNECTION
T	THERMOSTAT	DN	DOWN
H	HUMIDISTAT	DWG	DRAWING
	CIRCULATING PUMP	CFM	CUBIC FEET PER MINUTE
—HWS—	HOT WATER SUPPLY	GPM	GALLONS PER MINUTE
--HWR--	HOT WATER RETURN	NTS	NOT TO SCALE
—D—	DRAIN	NIC	NOT IN CONTRACT
—CHS—	CHILLED WATER SUPPLY	GC	GENERAL CONTRACTOR
--CHR--	CHILLED WATER RETURN	ELEC	ELECTRICAL CONTRACTOR
—CFS—	COOLING FLUID SUPPLY	PLBG	PLUMBING CONTRACTOR
--CFR--	COOLING FLUID RETURN	HV	HEATING & VENTILATING CONTRACTOR
— RL—	REFRIGERANT LIQUID	HAC	HEATING & AIR CONDITIONING CONTRACTOR
-- RG--	REFRIGERANT GAS	ACS	AIR CONDITIONING SYSTEM
—OF—	OIL FILL	RS	REFRIGERANT SUCTION
—OS—	OIL SUPPLY	FOB	FLAT ON BOTTOM
VVU	VARIABLE VOLUME UNIT	SLH	SILL-LINE HEATER
FOT	FLAT ON TOP		
BMH	BOTTOM MTG. HT.		
ATV	ACOUSTICAL TURNING VANES		
ACCU	AIR-COOLED CONDENSING UNIT		
RV	ROOF VENTILATOR	CP	CIRCULATING PUMP
4"ϕ	DIAM. ROUND DUCT	A/B~~-C~~	AXB FLAT-OVAL DUCT

GENERAL NOTES

1) COORDINATE EXACT LOCATION OF ALL ROOF OPENINGS IN PRECAST TEES W/ CONTRACT #1
2) VERIFY EXACT SIZE & LOCATION OF ALL LOUVERS

SCHEDULE OF ROOM NAMES AND NUMBERS

A-01	INFLUENT ROOM
A-02	PUMP ROOM
A-03	STAIR
A-04	TUNNEL -I
~~A-05~~	~~TUNNEL II~~
~~A-06~~	~~POLYMER ROOM~~
A-07	CHEM. FEED ROOM
~~A-08~~	~~LIME CONDITIONING RM.~~
~~A-09~~	~~STORAGE~~

1. ALL CONTRACTORS ARE ISSUED A COMPLETE SET OF CONTRACT DRAWINGS. WHILE EVERY EFFORT HAS BEEN MADE TO CONCENTRATE THE WORK OF TRADES ON SPECIFIC SHEETS, AND LABELED APPROPRIATELY, THERE ARE NECESSARILY INSTANCES WHERE WORK IS SHOWN ON OR CROSS REFERENCED TO OTHER DRAWINGS. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO REVIEW ALL DRAWINGS AND COORDINATE HIS WORK WITH OTHERS.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING, AND COORDINATING OTHER CONTRACTORS IN THE MAKING OF, ALL PENETRATIONS IN WALLS, FLOORS, CEILINGS, ROOFS, ETC., AS SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.

1/8" = 1'0" 8 4 0 8 16
1/4" = 1'0" 2 0 2 4 6 8 10

LICENSED PROFESSIONAL ENGINEER ROBERT J. MIELKE NO. 34071 STATE OF NEW YORK

MILLER · SIZING, P.C. consulting engineers
499 S.D. WARREN STREET SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
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ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	FOR CONSTRUCTION WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS WTF	8/31/76	RJM	WTF	SGB	8/31/76

PROJECT SUPERVISOR _____ APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
BASEMENT FLOOR PLAN AND SECTION

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 3 SHEET H 1

NOTE:
ROOM A-130 SHALL BE CONSIDERED CLASS I DIVISION I HAZARDOUS AREA. ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 501

NOTE:
ROOM A-134 SHALL CONSIDERED CLASS I DIVISION I HAZARDOUS AREA. ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 501

ALUMINUM BACKPLATE W/ 2" FIBERGLASS FOIL FACE INSULATING BOARD

LOUVER BY CTR "3

48"x36" BDD

48x14 DN. ⑤⑦

26"ϕ ⑦

FAN #1 SUSPENDED FROM ROOF W/ PLATFORM W/ NIB ISOLATORS

AD

A-134 FL. EL. 374.0

20,200 CFM OA

40"x15"

36x36 UP

20x20

30x22 ①

BMH 13'-6"

30x30 UP

30x26 ①

20x22

BMH 14'-0"

40"x15"

SEE DWG. H-3

42x20 UP & DN ⑤⑦

26x14, BMH 13'-8"

20x18

26x14

26x14 DN. ⑤

BMH 14'-2"

40x12"

32x8 BMH 23'-8"

FD (SEE DET. "G" ON H-21)

32x8 DN.

FL. EL. 374.0

MD

MAKE FINAL CONN. TO RADIATORS

EMERGENCY GENERATOR BY CONT. #2

SEE ELEVATION AT LOWER LEFT

6'-0"x2'-0" ACCESS DOORS

A-135

UH#3 BMH 10'-0"

TO MOTORIZED DAMPERS

HATCH

A-129 FL. EL. 374.0

A-136

A-137

CRANE RAIL BY CONTRACT 1

(OPEN TO BSMT. FL.)

A-133

A-110

UP

DN

SEE SHEET H-5 FOR FURTHER WORK IN THIS ROOM

36x12" UP W/ FD

A-122

12x6

36x12

6x6 ①

A-124

8x6

A-125

A-126

48x8

A-156

CONDUITS BY CONT. 2 TOP 14" BELOW DECK

32x8

A-157

A-128

A-127

BMH 8'-2"

40x12

A-123

A-120

VVU #4

DETAIL "K"

VD

32x6

6/16

SLEEVE IN BEAM

A-119

CH #1

12x36 UP W/ FD

A-118

VVU #3

6x10

28x6

DETAIL "K" (TYP)

A-111

A-117

6x8

VVU #2

8"ϕ

28x4

VVU #1

EXTEND DUCT DOWN TO CLG. & INSTALL DIFFUSER

SEE DETAIL "L" SHEET H-21

AIR CURTAIN HTR ABOVE CLG.

A-112

70"

FAN #10

16½"x7¾" BRICK VENT BY CTR

A-113

FD

FAN #4 WITH BDD.

12'-0"±

UH#2 BMH 8'-0"

44'-8" NTS

A-114

UH#2

A-116

A-115

12'-0"±

72x12 LOUVER ABOVE DOOR

MD

MATCH LINE "A"

(3) 54"x36" LOUVERS BY CTR "3 SEE DETAIL "F" ON DWG. H-21

48"x84" LOUVER BY CTR "3 (TOP PANEL)

PARTIAL FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

18 GA. GALVANIZED STEEL WITH 1½"x1½" GALV ANGLES REINFORCING ALL OVER AS REQUIRED

9'-0"x7'-0" MOTORIZED DAMPER

10'-0"x2'-0" MOTORIZED DAMPER

18" FLEX. CONNECTION

ENGINE RADIATOR

9'-0"

6'-4"

3'-5"

SECTION (1/H2) (TYP)
SCALE: ¼" = 1'-0"

1/8" = 1'-0" 8 4 0 8 16

(2) 36"x36" LOUVERS BY CTR "3 (GENERATOR INTAKE) W/ MD

GL.

GL.

CUTOUTS BY CONT. 3 IN LOUVER BACKPLATE. VERIFY SIZE AND LOCATION

7'-0"

9'-0"

"ALUMINUM BACKPLATE W/ 2" FIBERGLASS FOIL FACE INSULATING BOARD

PARTIAL SOUTHWEST ELEVATION
SCALE 1/8" = 1'-0"

7/8" LIQUID (VERIFY)

FILTER-DRIER

TYP. SENSING BULB

1⅛" SUCTION (VERIFY)

REFRIG'T DISTRIBUTOR INLET

COIL

TYPICAL SOLENOID VALVE

STOP VALVE

TYPICAL SIGHT GLASS

TYP. THERMOSTATIC EXPANSION VALVE

REFRIGERANT PIPING SCHEMATIC ACS #1
NO SCALE SEE DWG. #5

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NOTES:

1. DUCT CONSTRUCTED ACCORDING TO HIGH VELOCITY STANDARDS
2. WALL OPENING BY CONT. #1 ABOVE CLG.
3. EMERGENCY GENERATOR EXHAUST SILENCER INSTALLED BY CONT. #2, INSULATED BY CONTRACT 3, SEE DWG. E-10
4. SEE ARCH. DETAIL "E" ON DWG. A-15
5. 4" x4" CONCRETE DUCT CURB
6. UNDERCUT DOOR BY CONTRACT #1
7. CORROSION-RESISTANT DUCT
8. FIRE DAMPER - FIRE RESISTANCE RATING 1½ HR (A)

SCHEDULE OF ROOM NAMES AND NUMBERS

A-110	HALL
A-111	VESTIBULE
A-112	LOBBY
A-113	TRANSFORMER I
A-114	TRANSFORMER II
A-115	TRANSFORMER III
A-116	SWITCHGEAR
A-117	CONFERENCE ROOM
A-118	OFFICE
A-119	VESTIBULE
A-120	OFFICE
A-121	CORRIDOR
A-122	MECHANICAL EQUIPMENT RM.
A-123	REFRIGERATOR ALCOVE
A-124	MEN'S TOILET
A-125	JANITOR'S CLOSET
A-126	WOMEN'S TOILET
A-127	HALL
A-128	STORAGE ROOM
A-129	SLUDGE LOADING AREA
A-130	HALL
A-131	DRY CHEMICAL STORAGE
A-132	PARTS & EQUIP. STORAGE
A-133	LIME CONDITIONING
A-134	GRIT SCREENING RM.
A-135	GENERATOR ROOM
A-136	POLYMER STORAGE
A-137	FERRIC CHLORIDE TANK
A-156	ELEC. CLOSET
A-157	CLOSET

LICENSED PROFESSIONAL ENGINEER — UNIVERSITY OF THE STATE OF NEW YORK — NO. 34071

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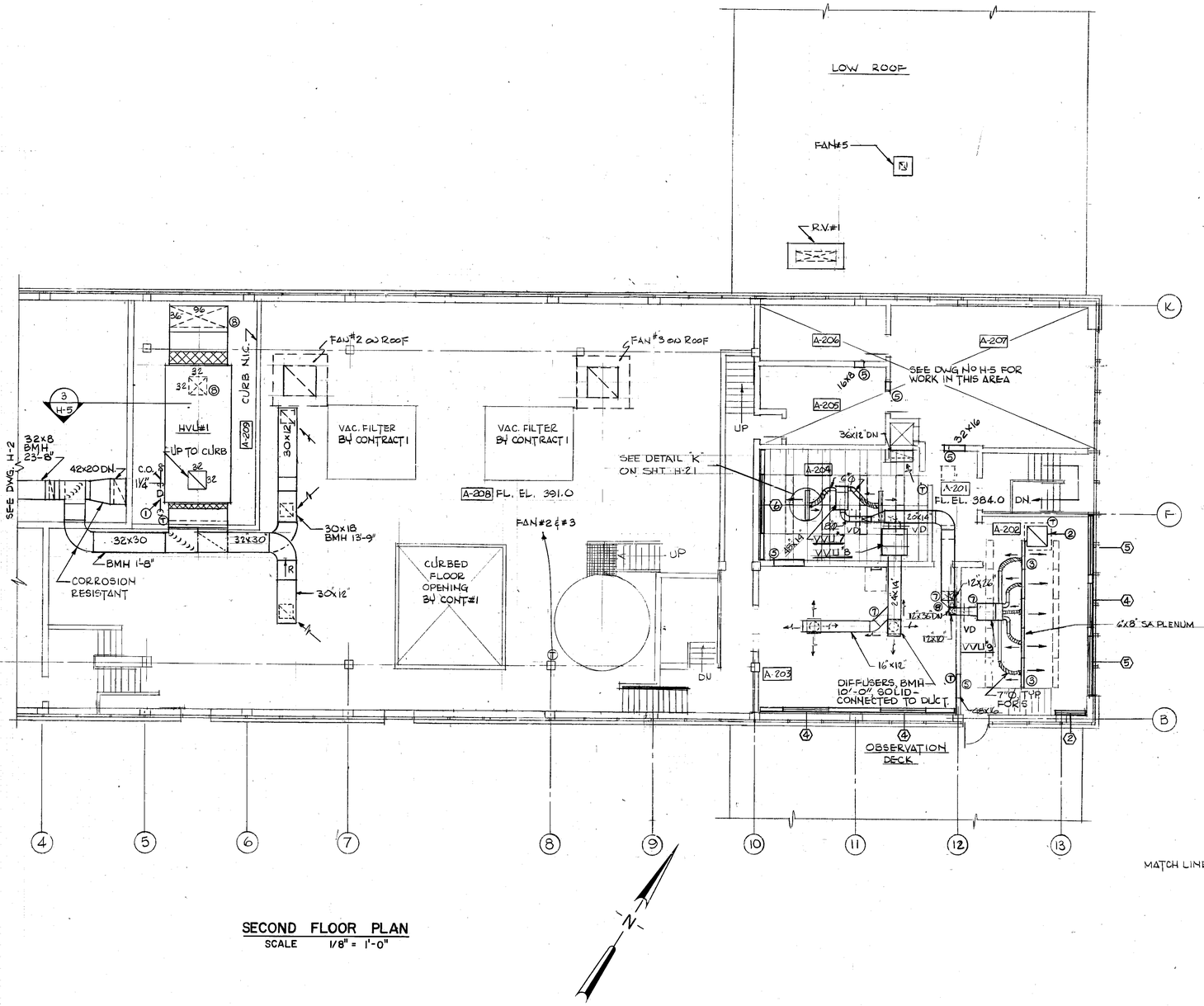
PROJECT SUPERVISOR: APPROVED

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
PARTIAL FIRST FLOOR PLAN

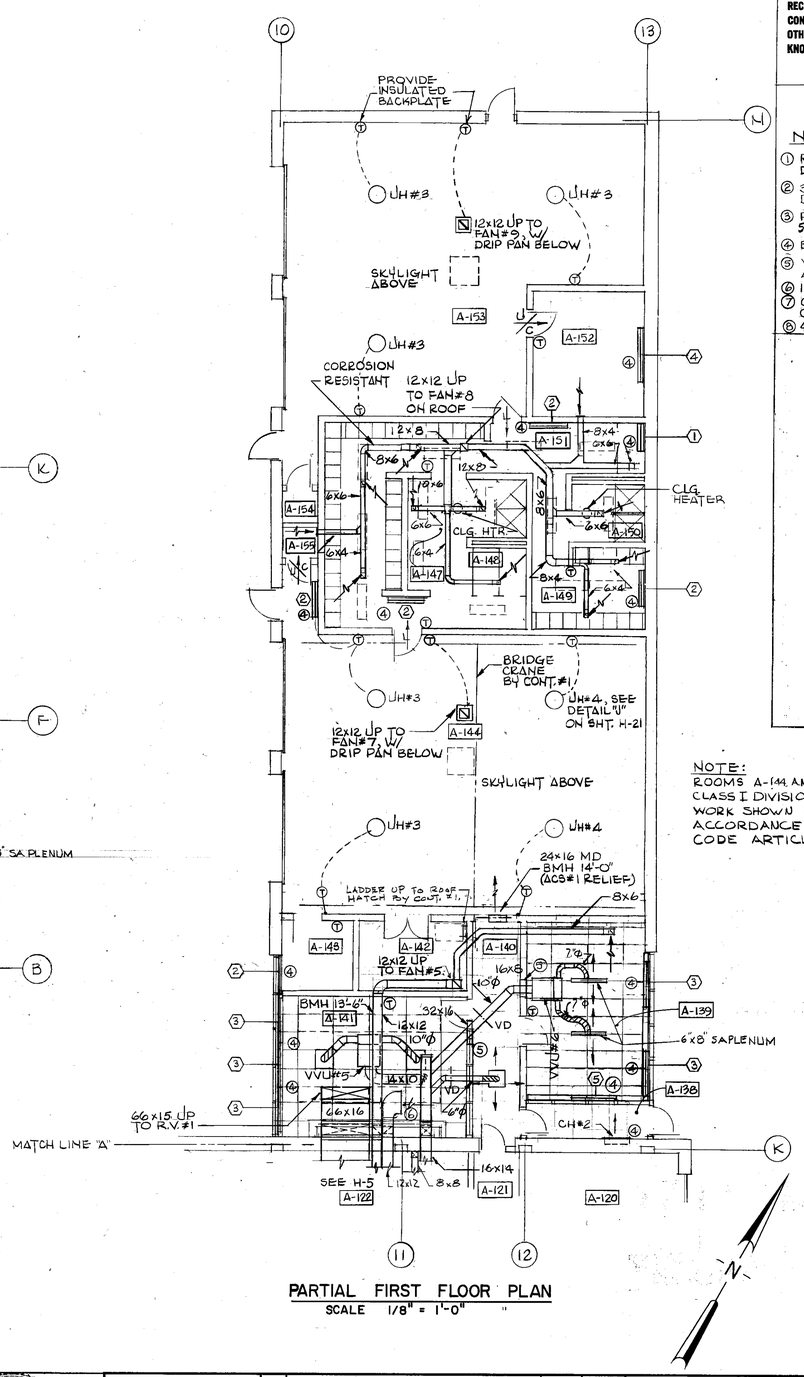
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 3 SHEET H 2

232



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



PARTIAL FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

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NOTES:

1. RUN DRAIN LINE TO FLOOR DRAIN BY CONTRACT 4
2. 36"x36" UP TO R.V.#2 WITH MD & DRIP PAN
3. PROVIDE CONTINOUS S.A. PLENUM W/ 5 INLET TAPPINGS IN RM. A-202
4. BOTTOM OF HEATER 20" AF
5. WALL OPENING BY CONTRACT 1 ABOVE CEILING
6. 18x12 OPEN END ON R.A. DUCT
7. COORDINATE DUCT ROUTE WITH CONDUITS BY CONT.2. SEE DWG. E-11.
8. 4"x4" CONCRETE DUCT CURB

SCHEDULE OF ROOM NAMES AND NUMBERS

A-138	VESTIBULE
A-139	LUNCH ROOM
A-140	CORRIDOR
A-141	MAINT. FOREMAN
A-142	STORAGE ROOM
A-143	ELECTRICAL SHOP
A-144	GARAGE & SHOP AREA
A-145	STORAGE ROOM
A-146	LOCKER ROOM
A-147	SHOWER
A-148	TOILET
A-149	LOCKER ROOM
A-150	SHOWER
A-151	TOILET
A-152	LUNCH ROOM
A-153	GARAGE & WORK AREA
A-154	STORAGE ROOM
A-155	STORAGE ROOM
A-201	VESTIBULE
A-202	CONTROL ROOM
A-203	MCC & ELECTRIC ROOM
A-204	TRAINING
A-205	BACTERIOLOGY LAB.
A-206	LABORATORY OFFICE
A-207	LABORATORY
A-208	VACUUM FILTER RM.
A-209	MECH. EQUIPMENT AREA

NOTE:
ROOMS A-144 AND 153 SHALL BE CONSIDERED CLASS I DIVISION II HAZARDOUS AREA AND ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 501

1/8" = 1'-0" 8 4 0 8 16

LICENSED PROFESSIONAL ENGINEER REGISTERED ARCHITECT UNIVERSITY OF THE STATE OF NEW YORK NO. 24077

MILLER · SIZING, P.C.
consulting engineers
409 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER UNIVERSITY OF THE STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810 W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

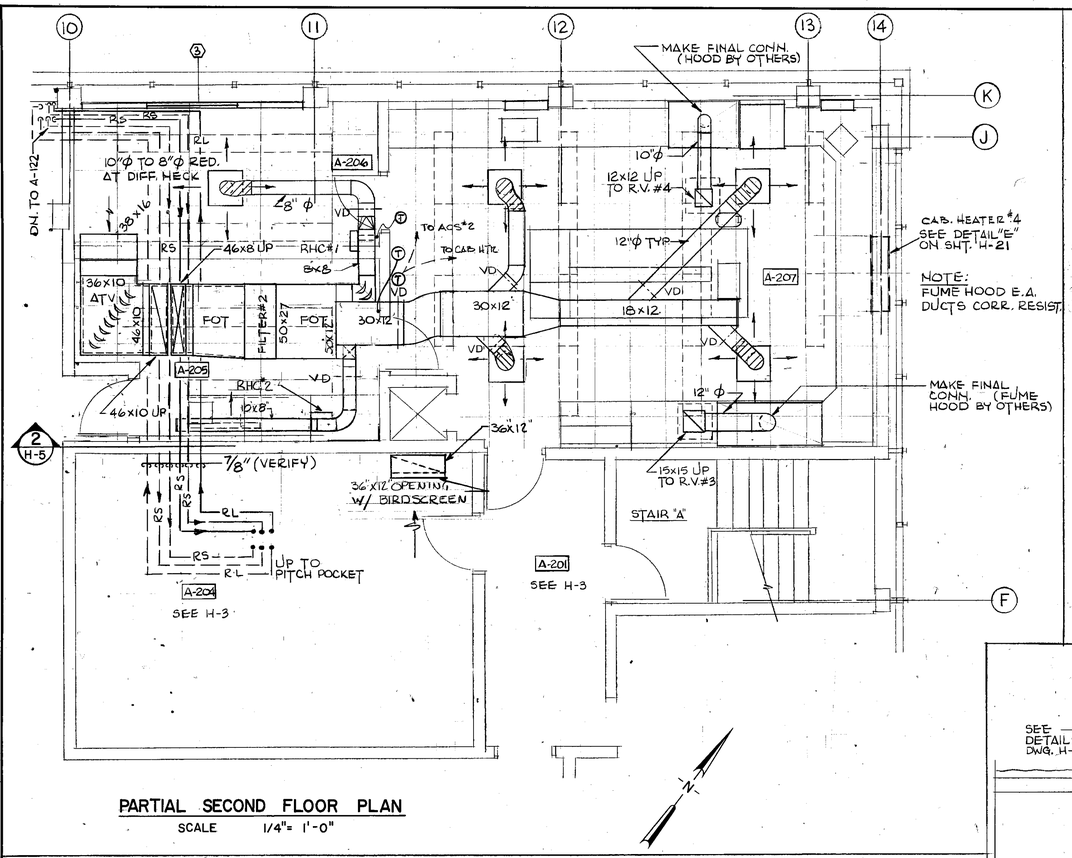
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION					
	WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS					
	WTF	3/8/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR APPROVED S.G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
SECOND FLOOR AND PARTIAL FIRST FLOOR PLAN

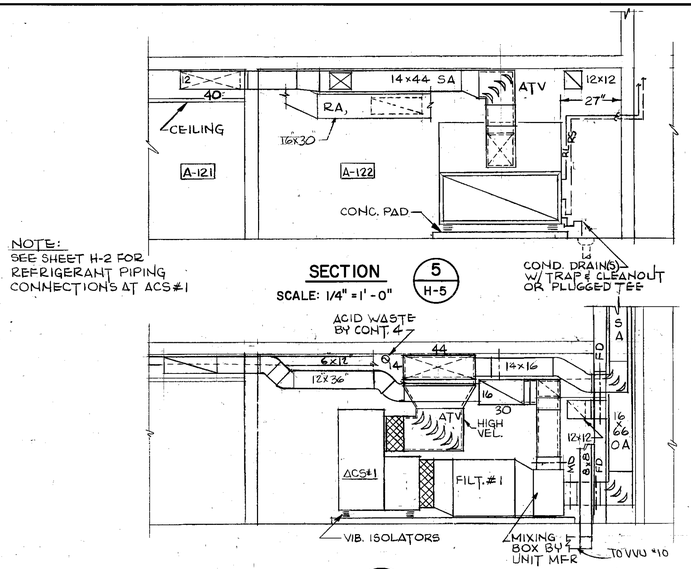
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 CONTRACT NO. 3 SHEET H 3



PARTIAL SECOND FLOOR PLAN

SCALE 1/4"= 1'-0"

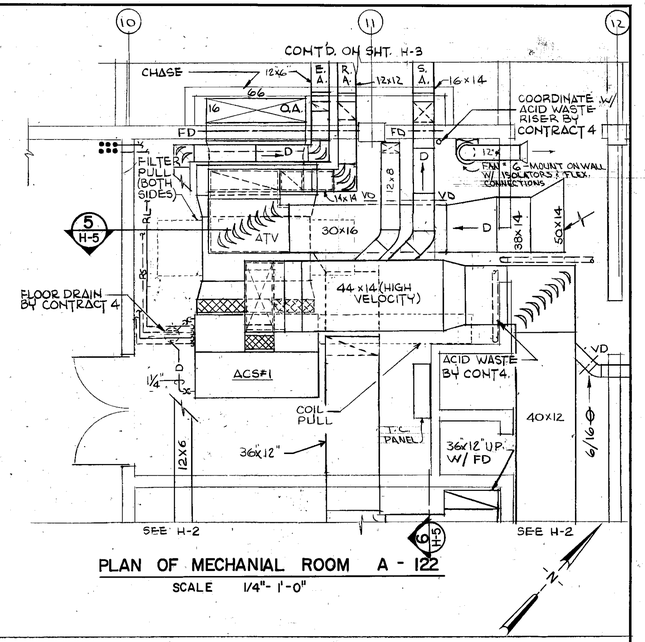


SECTION 5 / H-5

SCALE: 1/4" = 1'-0"

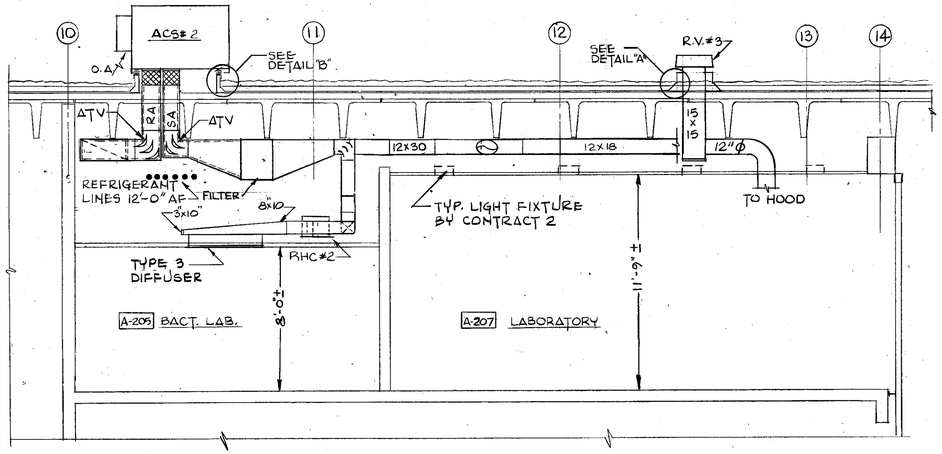
SECTION 6 / H-5

SCALE 1/4"= 1'-0"



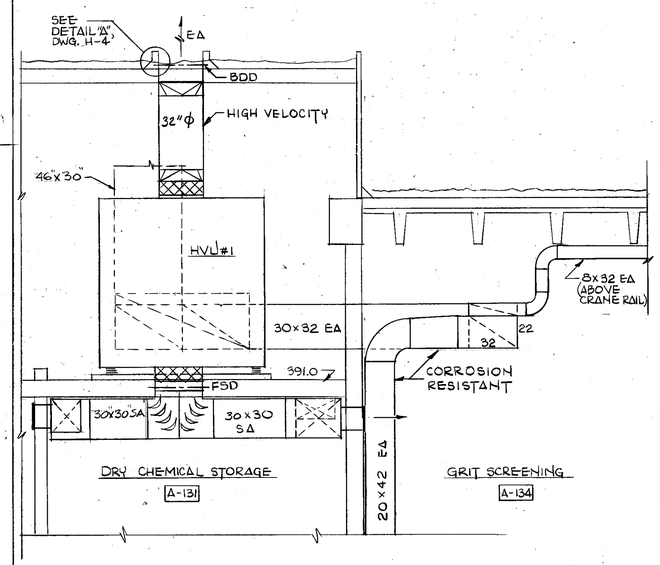
PLAN OF MECHANIAL ROOM A - 122

SCALE 1/4"= 1'-0"



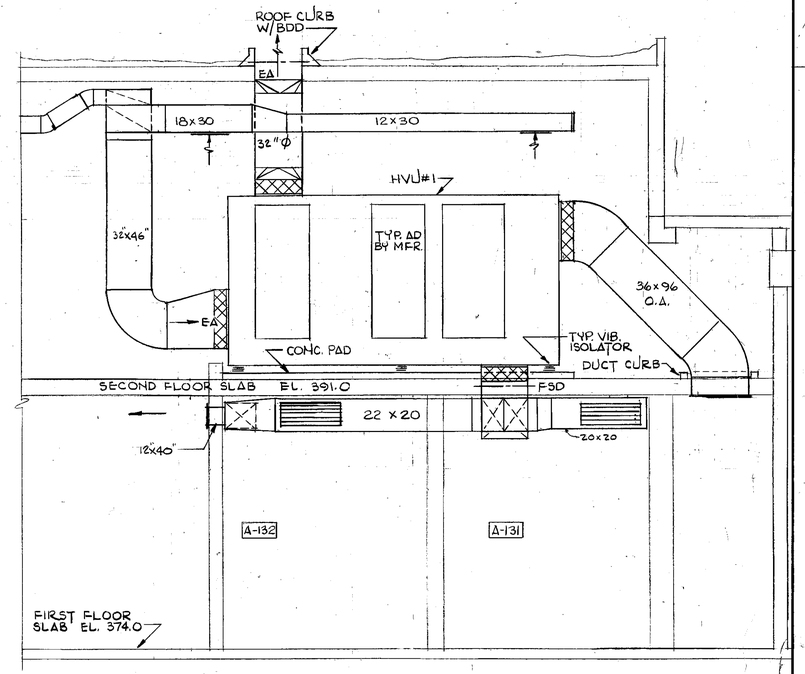
SECTION 2 / H-5

SCALE 1/4"= 1'-0"



SECTION 3 / H-2 — 3 / H-3

SCALE 1/4"= 1'-0"



ELEVATION 4 / H-2

SCALE 1/4"= 1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

LICENSED PROFESSIONAL ENGINEER ROBERT J. MILLER NO. 34071 STATE OF NEW YORK
R. J. Miller
MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	WG	2/24/78	RJM	RJM	SAB	2/24/78
	FOR APPROVALS					
1	WTF	8/31/76	RJM	WTF	SAB	8/31/76

PROJECT SUPERVISOR Joel Swanson — APPROVED S.C. Bubbin

ONONDAGA COUNTY, NEW YORK

DEPARTMENT OF DRAINAGE & SANITATION

BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

CONTROL BUILDING
DETAILS AND SECTIONS

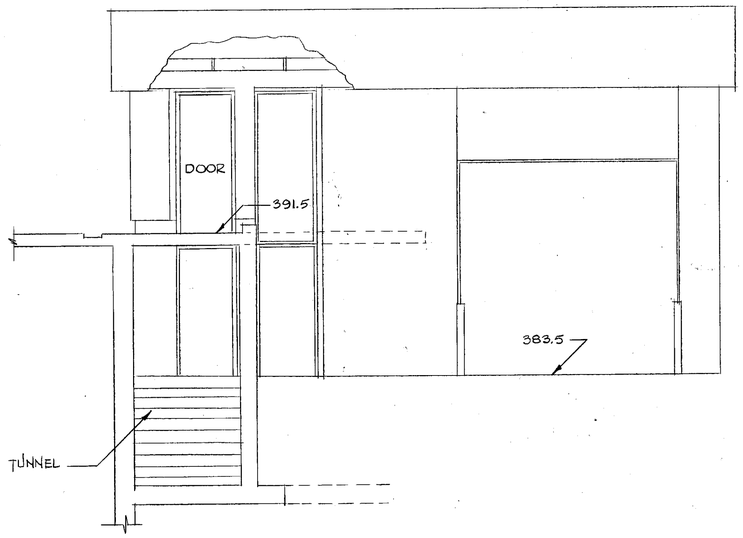
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS

CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 — CONTRACT NO. 3 — SHEET H 5

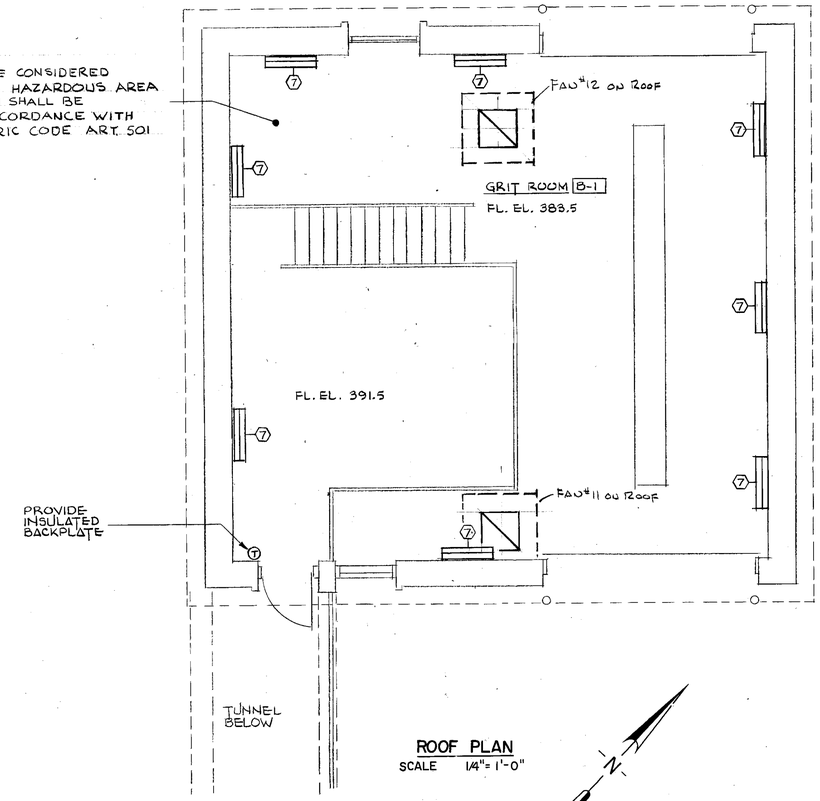
339

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SOUTHEAST ELEVATION
SCALE 1/4" = 1'-0"

NOTE:
ROOM B-1 SHALL BE CONSIDERED CLASS I DIVISION 1 HAZARDOUS AREA ALL WORK SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 501



NOTE:
MOUNT ALL HEATING UNITS 10" AF

ROOF PLAN
SCALE 1/4" = 1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

D. J. Miller

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SYRACUSE, NEW YORK 13202

ISSUE NO.		DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION				SGB	2/24/78
	WG	2/24/78	RJM	RJM		
1	FOR APPROVALS				SGB	3/31/76
	WTF	3/31/76	RJM	WTF		

PROJECT SUPERVISOR: Jack Swenson
APPROVED: S.G. Bubin

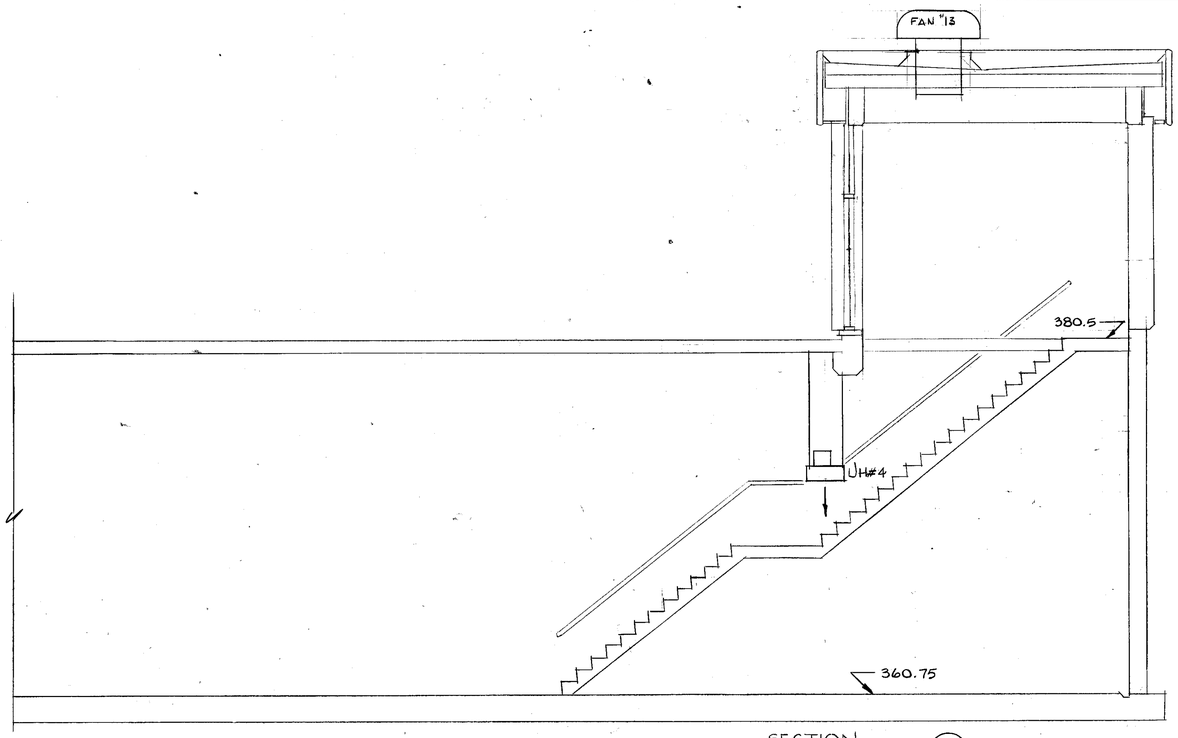
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BUILDING FLOOR PLAN AND ELEVATION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

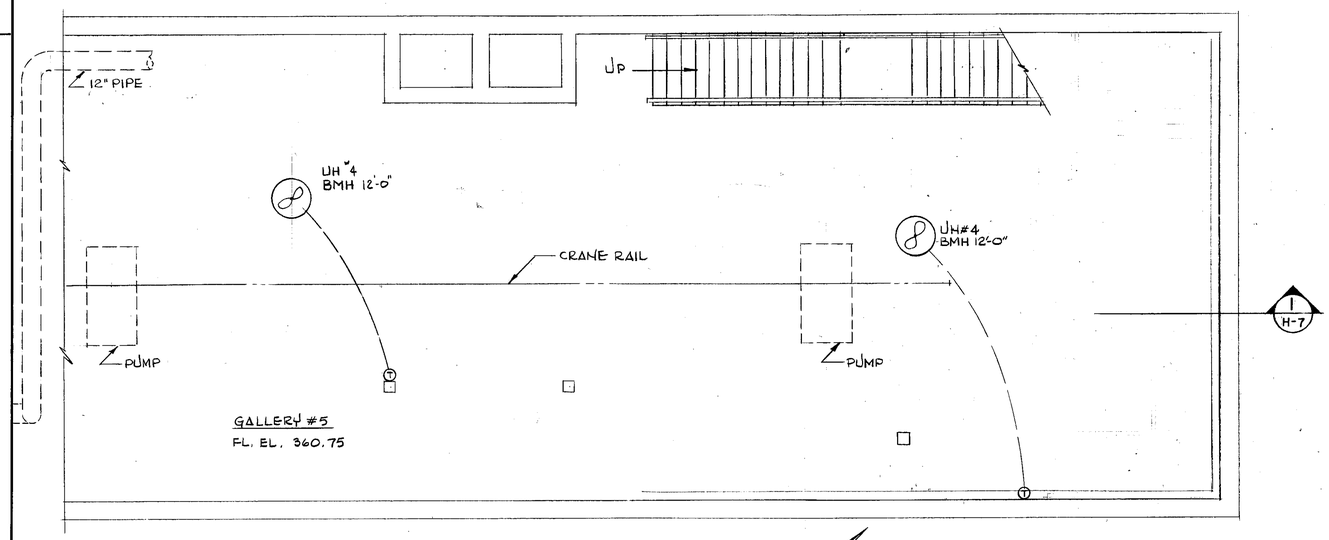
JOB NO. 577 CONTRACT NO. 3 SHEET H 6

2470

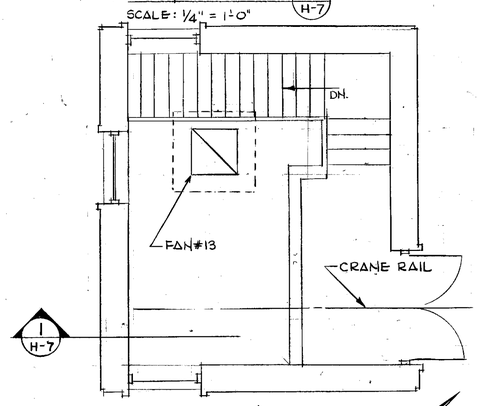
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



SECTION (1/H-7)
SCALE: 1/4" = 1'-0"



LOWER FLOOR & GALLERY NO. 5 PLAN
SCALE 1/4"= 1'-0"



UPPER ROOF PLAN
SCALE 1/4"= 1'-0"

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	WTF	3/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S.G. Bristin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ENTRANCE STRUCTURE AND GALLERY NO. 5
FLOOR PLANS AND SECTIONS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 7

NOTE:
ALL DUCTWORK ON THIS SHEET CONSTRUCTED TO HIGH VELOCITY STANDARDS, AND CORROSION-RESISTANT.

NOTE:
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48x42 LOUVER BY CTR. #3 SEE DWG. A-36

BDD

CRANE RAIL BY CTR. #1

FL. EL. 364.0

26"x26"

FAN #14

SEE NOTE BELOW

ROOF OVER GALLERY "B"

FAN #21 ON ROOF

SKYLIGHTS

LIME BIN STORAGE

FL. EL. 376.0

1 H-9

SKYLIGHT BY CONT. #1, TYP. FOR 3

UP TO FAN #15 ON ROOF

31 26x20 31

26x20 DN.

RAIN LEADER BY CONT. 4

CHLORINE ROOM

14x12

31 24x20 31

DETAIL (R)

UP TO FAN #16 ON ROOF

BMH 2'0"

18x16

32x20

UP TO FAN #17 ON ROOF

CHLORINE STORAGE

33 33

1 H-9

CRANE RAIL BY CONT. #1

CHLORINE CONTACT TANKS

NOTE:
SUSPEND FAN PLATFORM BY THROUGH-BOLTING ROOF PLANK. PROVIDE VIBRATION ISOLATORS AND 12" X 12" X 3/8" LOAD-BEARING PLATE AT EACH ROD. ROD ENDS AND FASTENERS TO BE BURIED IN LT.-WT. FILL BY CONT. #1

FLOOR PLAN
SCALE 1/4"= 1'-0"

1/4" = 1'0" 2 0 2 4 6 8 10

LICENSED PROFESSIONAL ENGINEER ROBERT J. MILLER NO. 34071 UNIVERSITY OF THE STATE OF NEW YORK

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1	FOR APPROVALS					
	WTF	5/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bristin

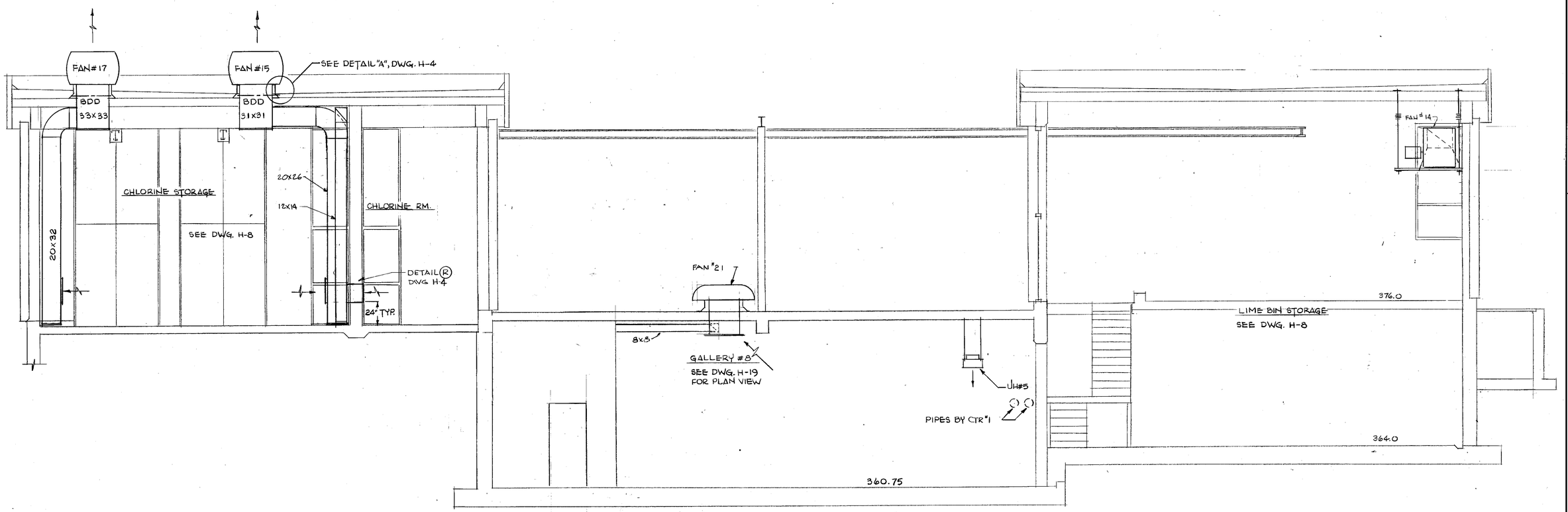
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING AND
LIME BIN STORAGE FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 8

242

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



BUILDING SECTION (1 / H-9)
SCALE 1/4"=1'-0"

1/4"= 1'0" 2 0 2 4 6 8 10

R. J. Miller
REGISTERED PROFESSIONAL ENGINEER

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ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION	WG	2/24/78	RJM	RJM	S.G.B	2/24/78
1	FOR APPROVALS	WTF	3/31/76	RJM	WTF	S.G.B	3/31/76

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S. G. Bruckner

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING AND
LIME BIN STORAGE CROSS SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 9

2 of 3

IDENTIFYING LEGEND

1. AIR REMOVAL ASSEMBLY
2. 15 GALLON COMPRESSION TANK (34"L X 13"DIA.)
3. 3-WAY VALVE BY TEMP. CONTROL
4. MIXING BOX SECTION W/O.A. AND R.A. DAMPERS
5. FLEXIBLE CONNECTION
6. ACCESS SECTION
7. LOW VELOCITY FILTER SECTION
8. HOT WATER PREHEAT COIL (50% GLYCOL SOL'N)
9. ELECTRIC REHEAT COIL
10. TOP-DISCHARGE FAN SECTION
11. AIR BLENDER (46"ϕ SIZE)
12. 2" HIGH CONCRETE PAD BY CTR"3
13. VIBRATION ISOLATORS

NOTE:
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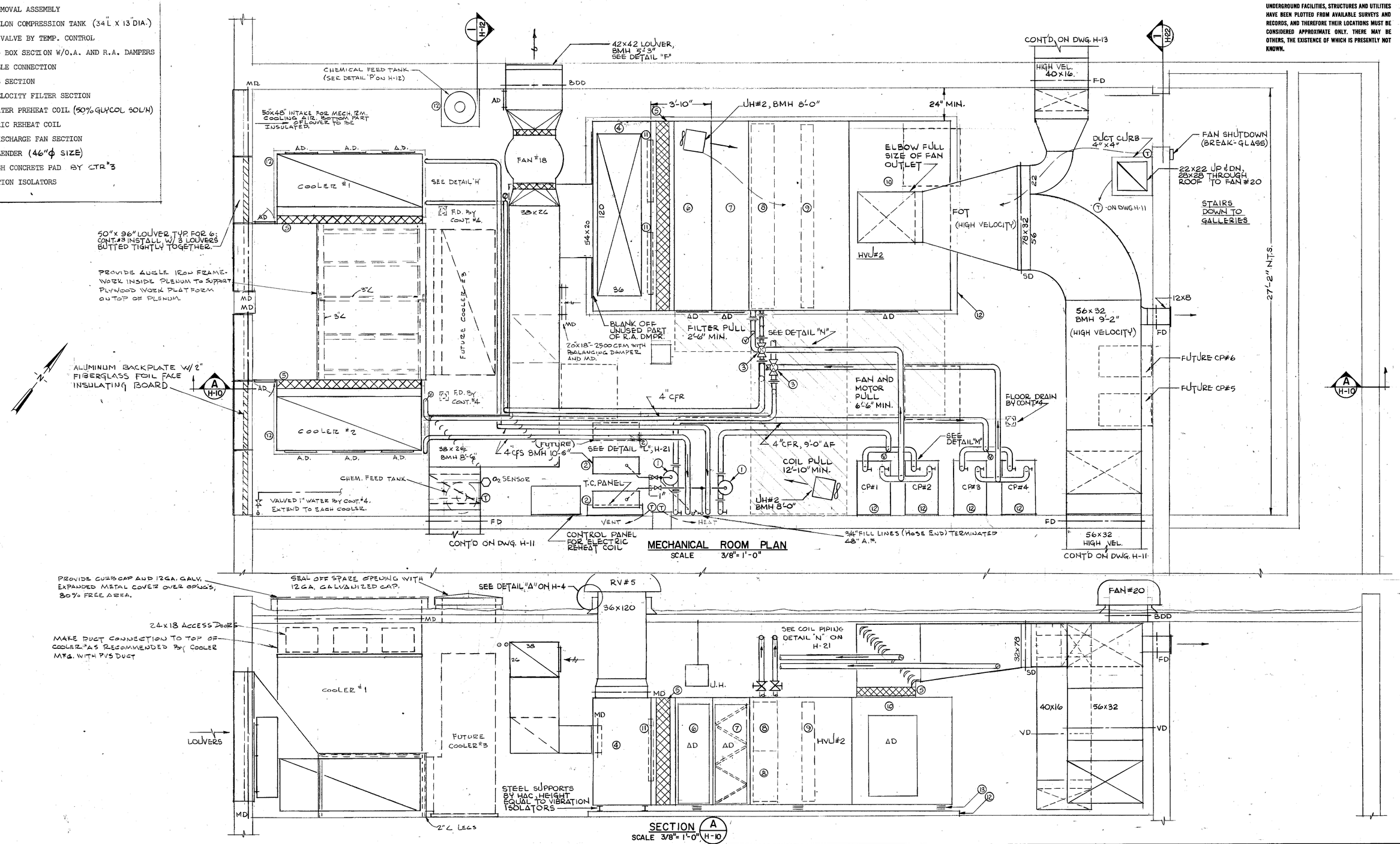

MECHANICAL ROOM PLAN
SCALE 3/8"= 1'-0"

SECTION A
SCALE 3/8"= 1'-0" (A H-10)

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

LICENSED PROFESSIONAL ENGINEER — ROBERT J. MILLER — NO. 34077 — UNIVERSITY OF THE STATE OF NEW YORK

R.J. Miller

MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.		DATE			APPROVED	DATE
2	FOR CONSTRUCTION				SGB	2/24/78
	WG	2/24/78	RJM	RJM		
1	FOR APPROVALS				SGB	3/31/76
	WTP	3/31/76	RJM	WTP		
	DRAWN	DATE	CHECKED	DESIGNER		

PROJECT SUPERVISOR: Joel Levenson — APPROVED: S.G. Brickman

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
MECHANICAL ROOM FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 10

NOTE:
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GALLERY No 2

STARTER BY CONT. 2

MCC BY CONTRACT 2

SWITCHGEAR BY CONTRACT 2

MD

96 x 18 O.A. LOUVER, MAX. 4500 CFM, BMH 8'-0"

UH#2, BMH 8'-0"

M.C.C.

ELECTRIC ROOM

MCC

MCC

STARTER

FUTURE STARTER

MCC

FOT

22x14 BMH 9'-2"

TRANSFORMER BY CONT. 2

EITHER THERMOSTAT SHALL ACTUATE FAN #20 ON DWG. H-11

22x22 UP W/FD

CONTROL ROOM

CONTROL PANEL BY OXYGEN SUPPLIER

FOT

22x14 BMH 9'-2"

H-22

STAIR TOWER

CH#3

CONTINUED ON DWG. No H-10

38x28

FD

38x26 BMH 14'-9"

CRANE RAIL

D

38x14 BMH 16'-1"

D

38x14 BMH 15'-4"

CONT'D ON DWG H-12

CFS & CFR UP TO MECH. RM. SEE DWG. H-10

4" CFR, 16'-9" AF

4" CFS, 16'-9" AF

4" CFR, 16'-9" AF

UH#4 BMH 16'-0"

WALL LINE OF MECH. RM. ABOVE

COMPRESSOR ROOM FL. EL. 374.0

CONT'D ON DWG. H-10

56x32 BMH 11'-6" (HIGH VELOCITY)

INSTRUMENT AIR COMPRESSOR No 1

GALLERY No 3 FL. EL. 365.5

15x12

48x32 BMH 11'-6"

CONT'D ON DWG H-12

N

FLOOR PLAN
SCALE 3/8" = 1'-0"

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

LICENSED PROFESSIONAL ENGINEER ROBERT J. MILLER NO. 34074 STATE OF NEW YORK

R. J. Miller

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489 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

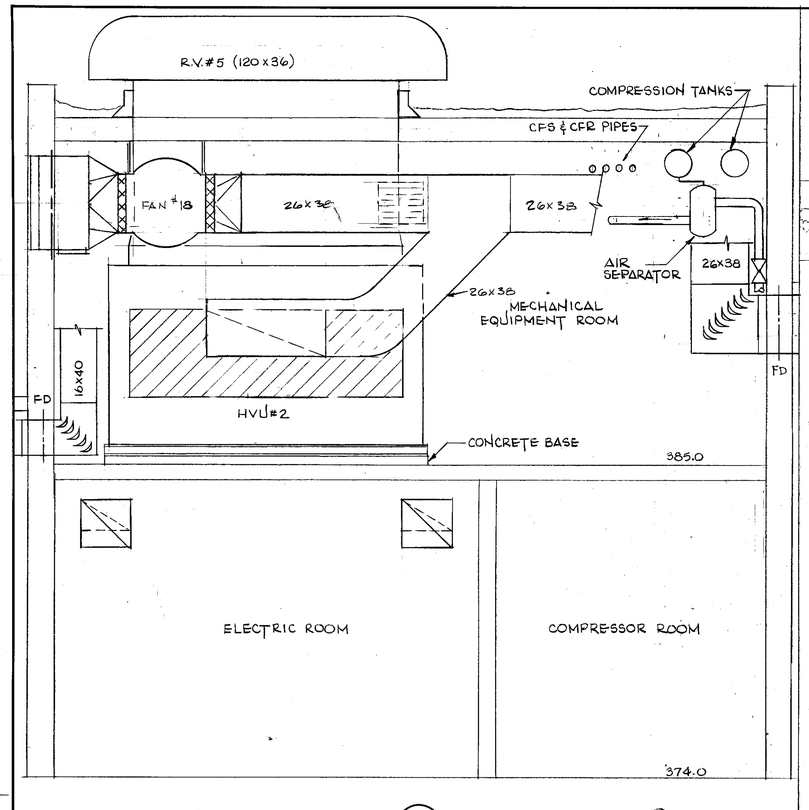
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION				SGB	2/24/78
	WG	2/24/78	RJM	RJM		
1	FOR APPROVALS				SGB	3/31/76
	WTF	3/31/76	RJM	WTF		

PROJECT SUPERVISOR: Joel Stevenson
APPROVED: S.G. Britain

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ELECTRIC ROOM AND PARTIAL OXYGEN GENERATOR ROOM FLOOR PLAN

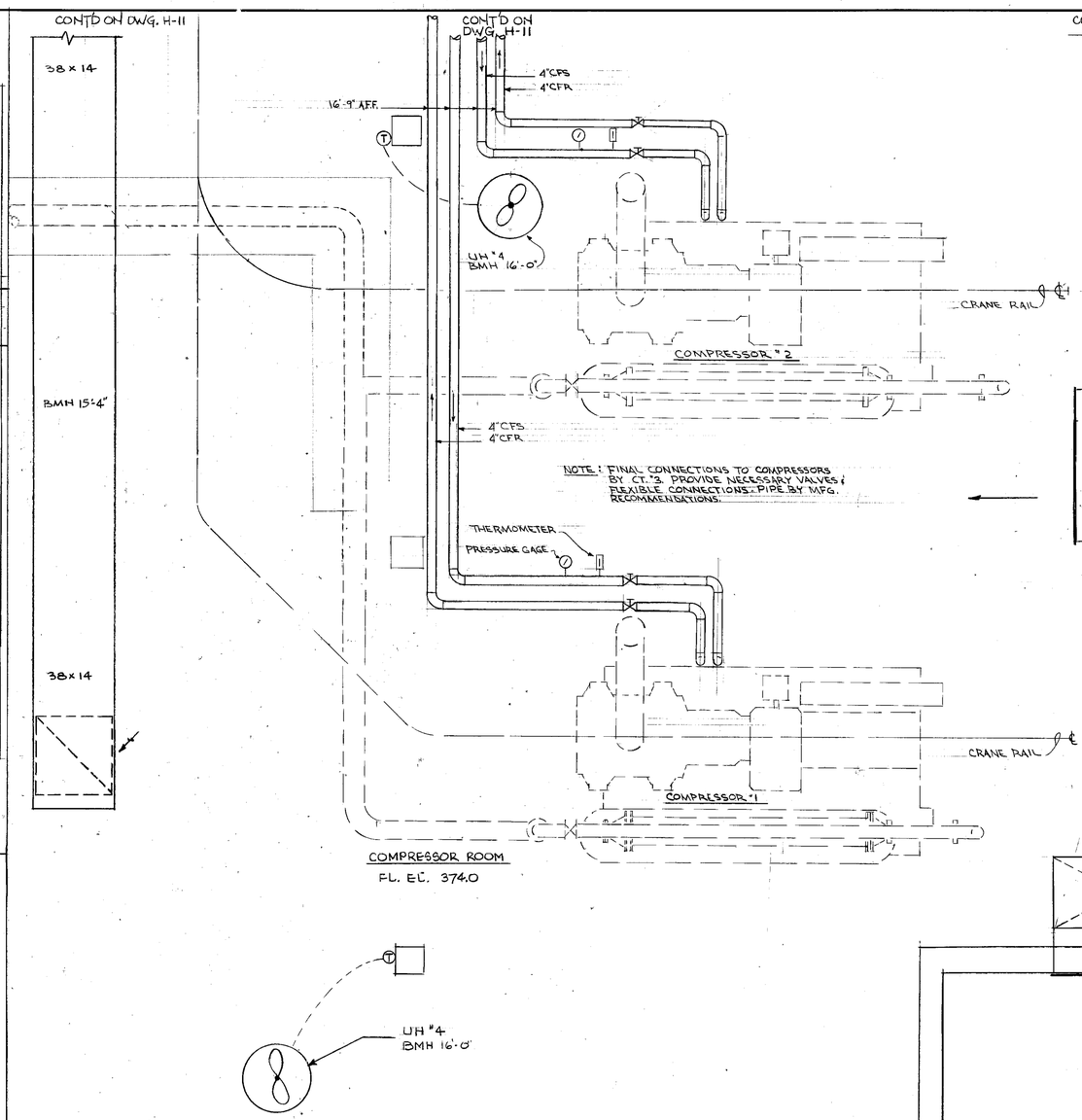
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 11



SECTION 1/H-12

SCALE 3/8"= 1'-0"



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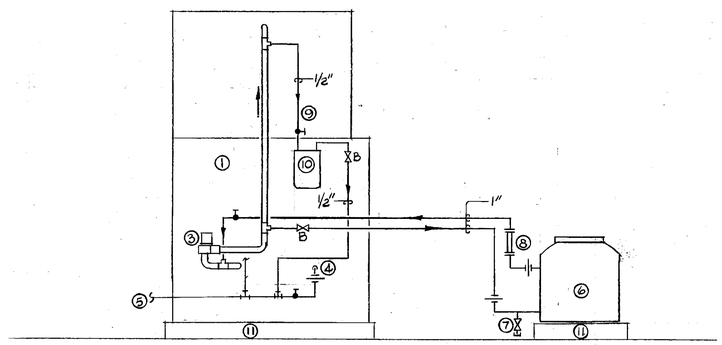
PARTIAL COMPRESSOR ROOM PLAN

SCALE 3/8"= 1'-0"



1. FLUID COOLER (SEE DETAIL "H" ON H-21)
2. OMITTED
3. RECIRCULATING SPRAY PUMP BY COOLER MFR.
4. COOLER DRAIN CONNECTION
5. DRAIN LINE TO FLOOR DRAIN
6. TREATMENT CHEMICAL FEED TANK
7. DRAIN VALVE W/ PLUG OR CAP
8. VISUAL FLOW INDICATOR
9. BLEED-OFF LINE (BLEED RATE 1/2 GPM)
10. REPLACEABLE CARTRIDGE FILTER, SUPPLIED BY CHEMICAL MFR.
11. CONCRETE BASE PAD

SPRAY WATER CHEMICAL TREATMENT PIPING SCHEMATIC

NO SCALE TYPICAL FOR 2

3/8"= 1'0" 1 0 1 2 3 4 5 6 7

LICENSED PROFESSIONAL ENGINEER D. J. MILLER NO. 34074 STATE OF NEW YORK

D. J. Miller

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499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

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1	FOR APPROVALS					
	WTF	3/31/76	RJM	WTF	SCB	3/31/76

PROJECT SUPERVISOR: Joel Sherman — APPROVED: S. C. Bricki

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GENERATOR ROOM - PARTIAL FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 12

NOTE:
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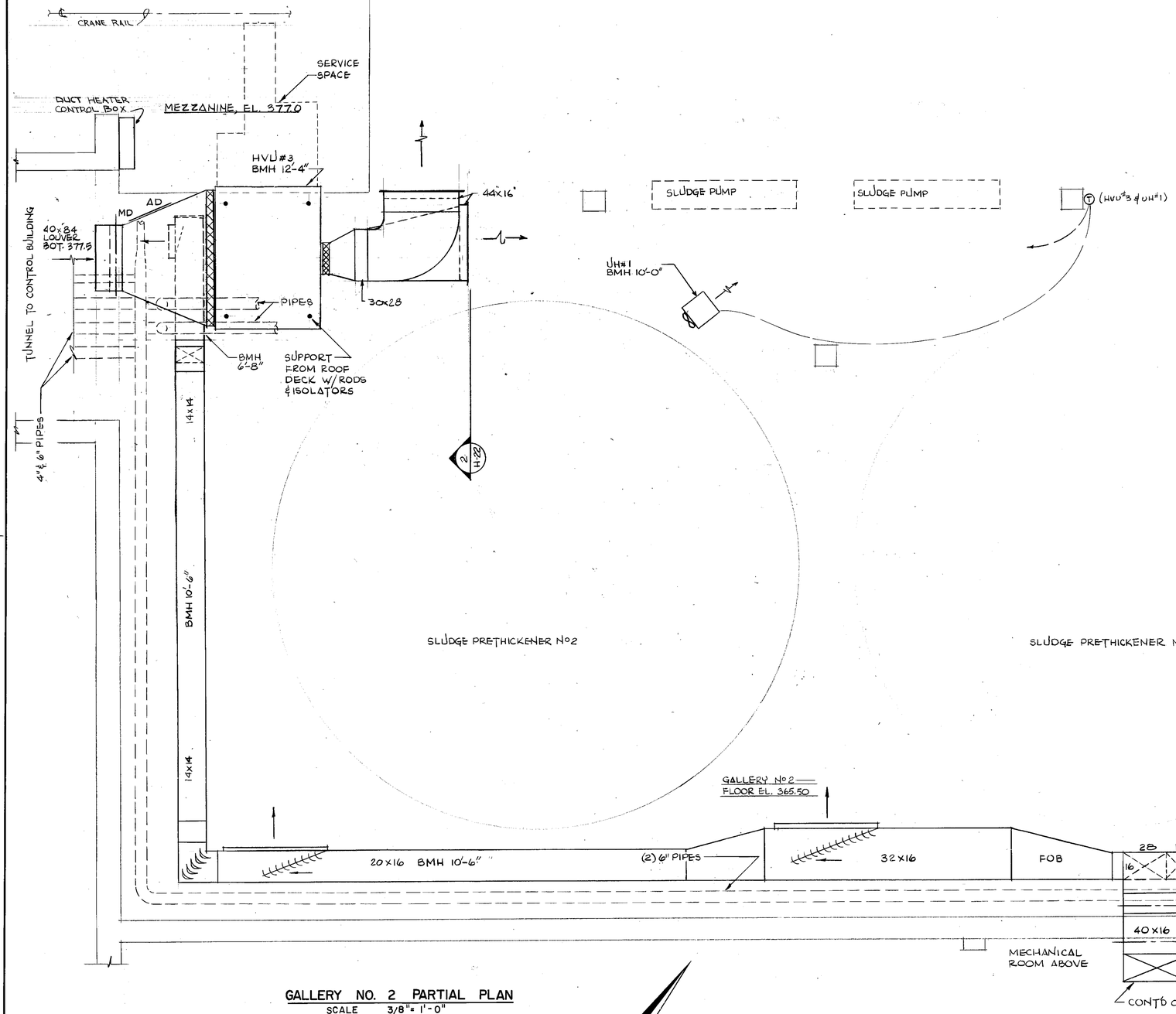

GALLERY NO. 2 PARTIAL PLAN
SCALE 3/8"= 1'-0"

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

LICENSED PROFESSIONAL ENGINEER
ROBERT J. MILLER
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499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS WTF	2/21/76	RJM	WTF	SGB	8/31/76

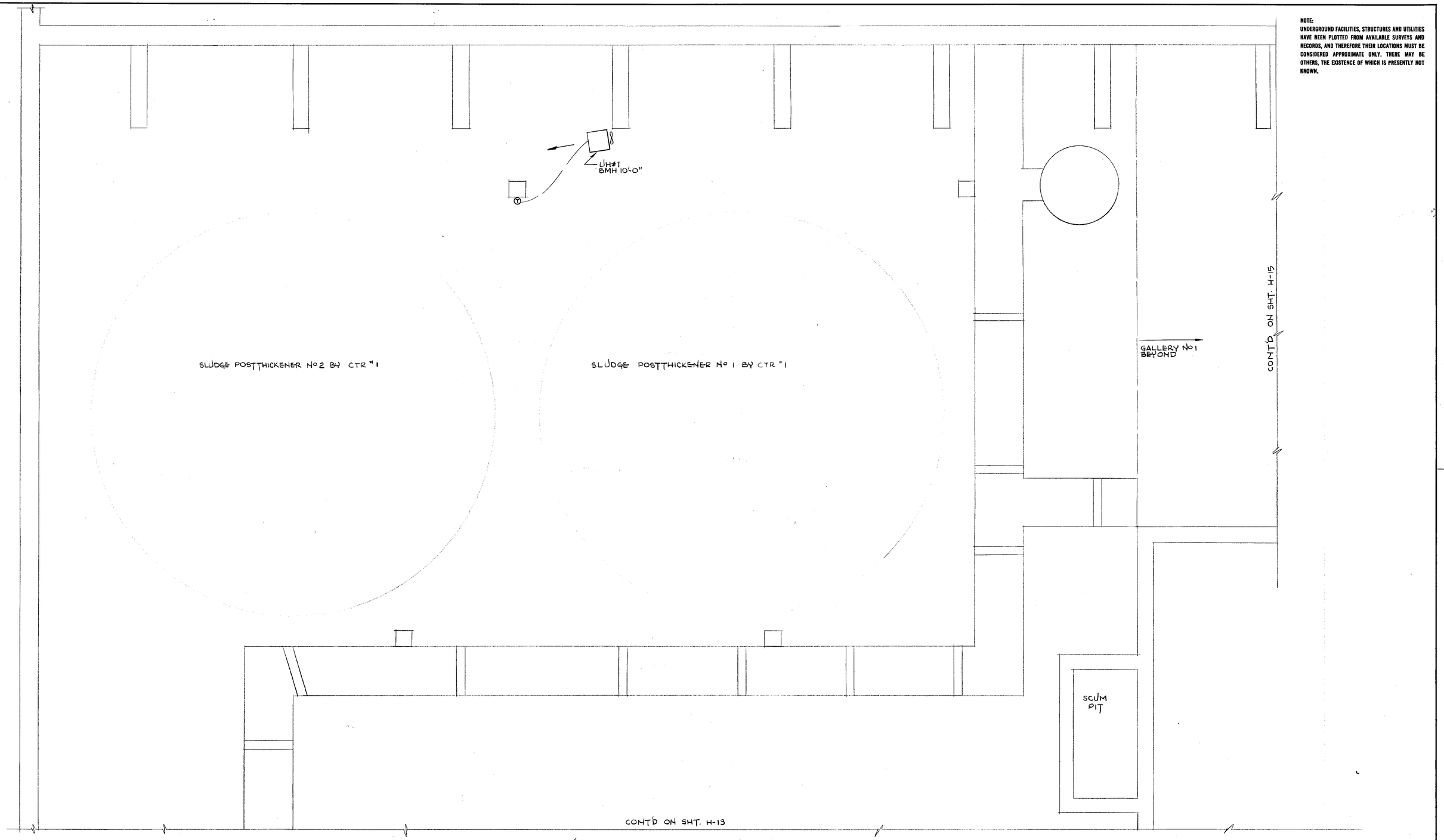
PROJECT SUPERVISOR: Joel Kaufman
APPROVED: S.G. Brister

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 2 PARTIAL FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 13

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



GALLERY NO. 2 PARTIAL PLAN
SCALE 3/8"= 1'-0"

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

N

R. J. Miller

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION					
	WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS					
	WTF	3/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bigsbie

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 2 PARTIAL FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 14

2 of 8

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

TO GRIT BUILDING
SEE DWG. H-6

6500 CFM

42x30 FSD
BMH 8'-9"
SEE DETAIL "A" ON H-21

LANDING, EL. 377.5

UP

8" PIPE

EL. 365.5

AERATED GRIT CHAMBER

NEC CLASS I, DIVISION I

AERATED GRIT CHAMBER

NEC CLASS I, DIVISION I

6" PIPE

UH#6
BMH 12'-0"

PUMP BY CTR "1

PUMP BY CTR "1

GALLERY #1 FL. EL. 365.5

TO GALLERY NO 2
(SEE DWG. H-14)

PRIMARY SETTLING TANKS

N

3/8" = 1'-0" 1 0 1 2 3 4 5 6 7

GALLERY NO. 1 FLOOR PLAN

SCALE 3/8" = 1'-0"

R.J. Miller

MILLER · SIZING, P.C.
consulting engineers
400 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

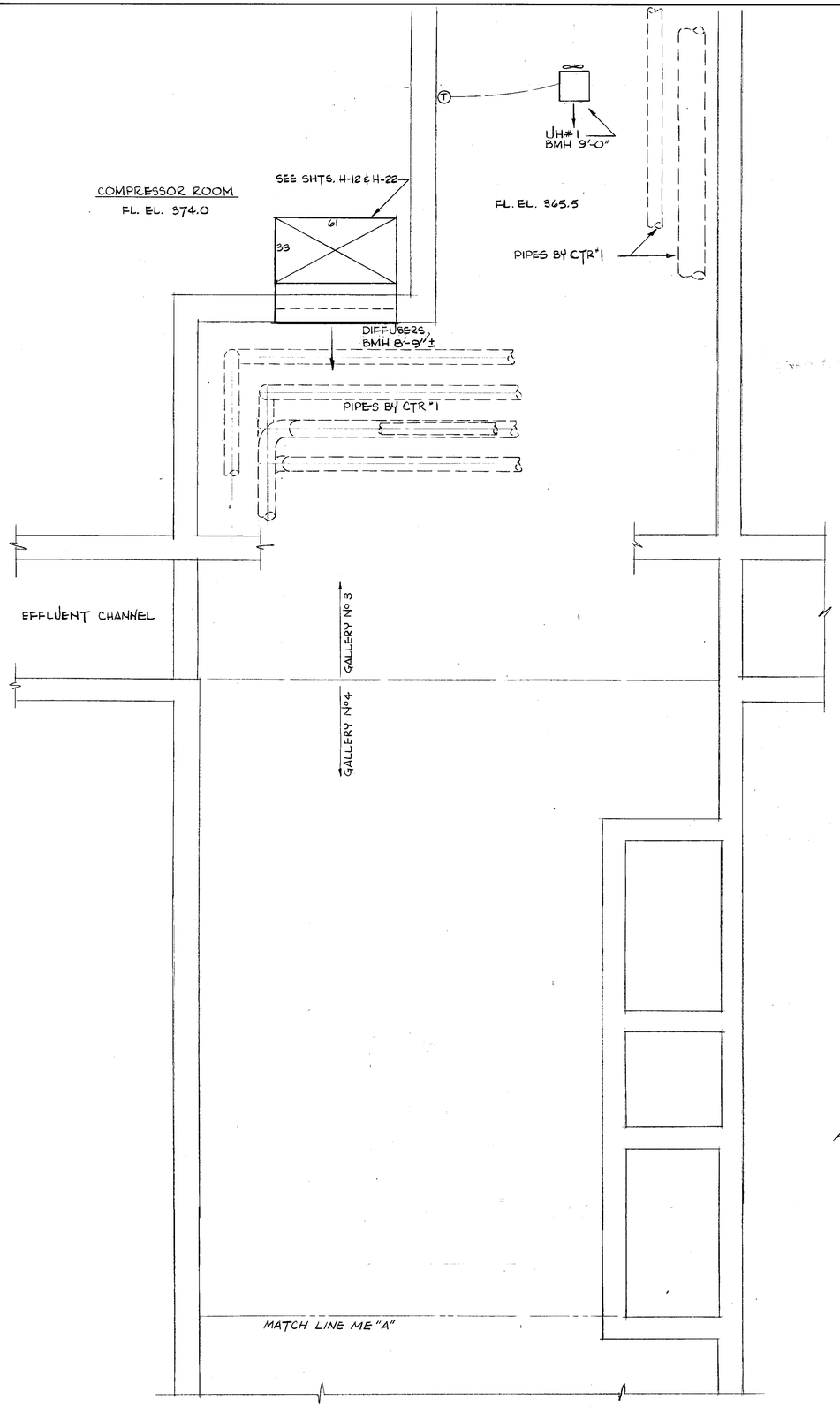
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION				S.G.B	2/24/78
	WG	2/24/78	RJM	RJM		
1	FOR APPROVALS				S.G.B	8/31/76
	WTF	8/31/76	RJM	WTF		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Brisbin

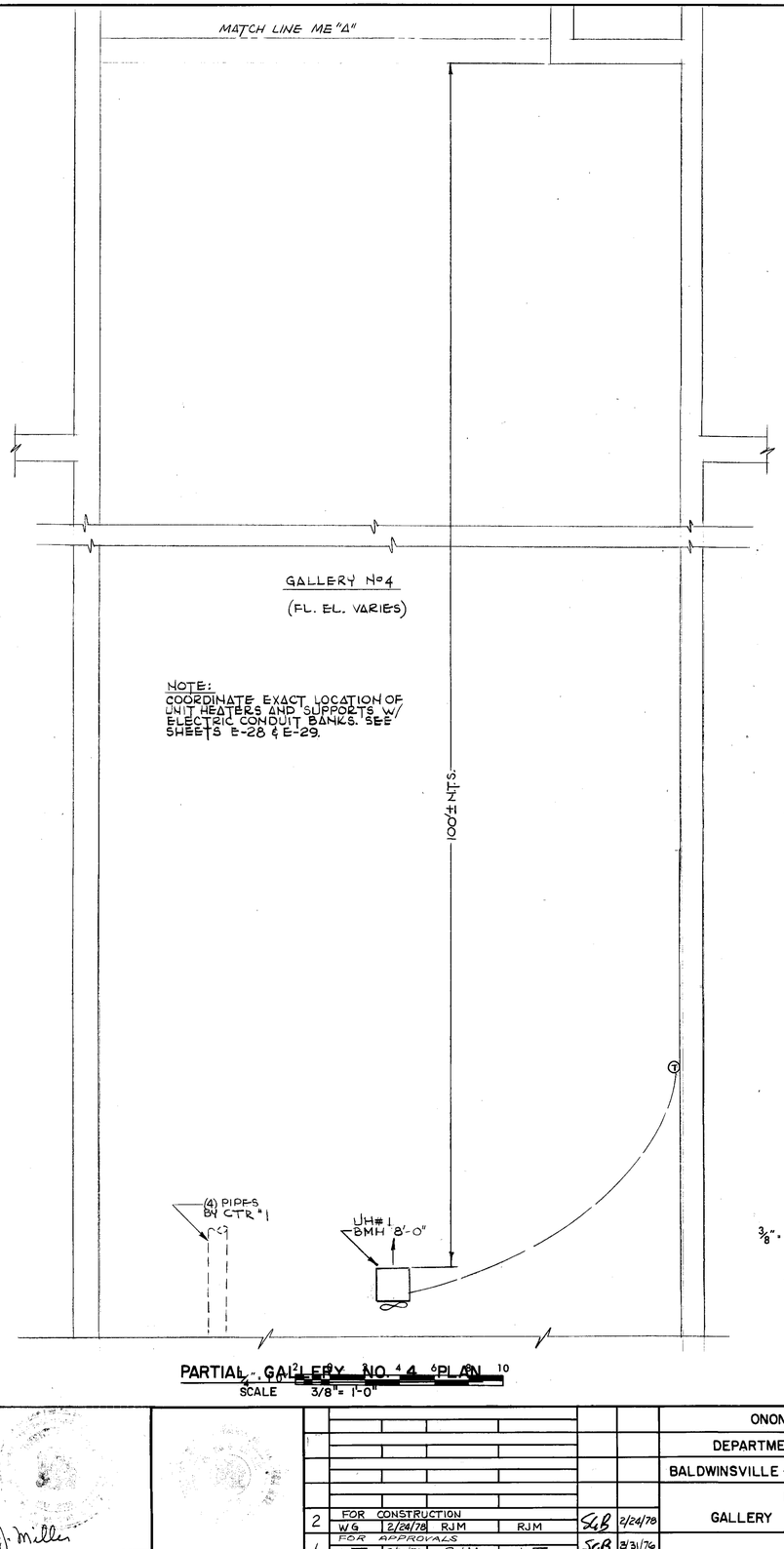
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 1 FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 15



PARTIAL GALLERY NO. 3 & NO. 4 PLAN
SCALE 3/8"= 1'-0"



PARTIAL GALLERY NO. 4 PLAN
SCALE 3/8"= 1'-0"

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

R.J. Miller

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS WTF	3/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: J. Anderson
APPROVED: S.G. Buisin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 3 AND NO. 4 FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 16

250

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

3" PIPE

3" PIPE

CHANNEL ABOVE

TYPICAL PUMP & PIPING BY CTR'T

CRANE RAIL

UH#6 BMH 12'-0"

UH#6 BMH 12'-0"

4" PIPE

TO FAN#19 (SEE INSET)

GALLERY#6 FL. EL. 360.75

28x28 UP TO FAN# 19 W/ DRIP PAN BELOW (SEE DET. "A" ON H-4)

UP

SUPERSTRUCTURE PLAN
INSET SCALE 1/4"=1'-0"

GALLERY NO. 6 PLAN
SCALE 3/8"=1'-0"

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

R.J. Miller

MILLER · SIZING, P.C.
consulting engineers
409 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION					
	WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS					
	WTF	3/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bristol

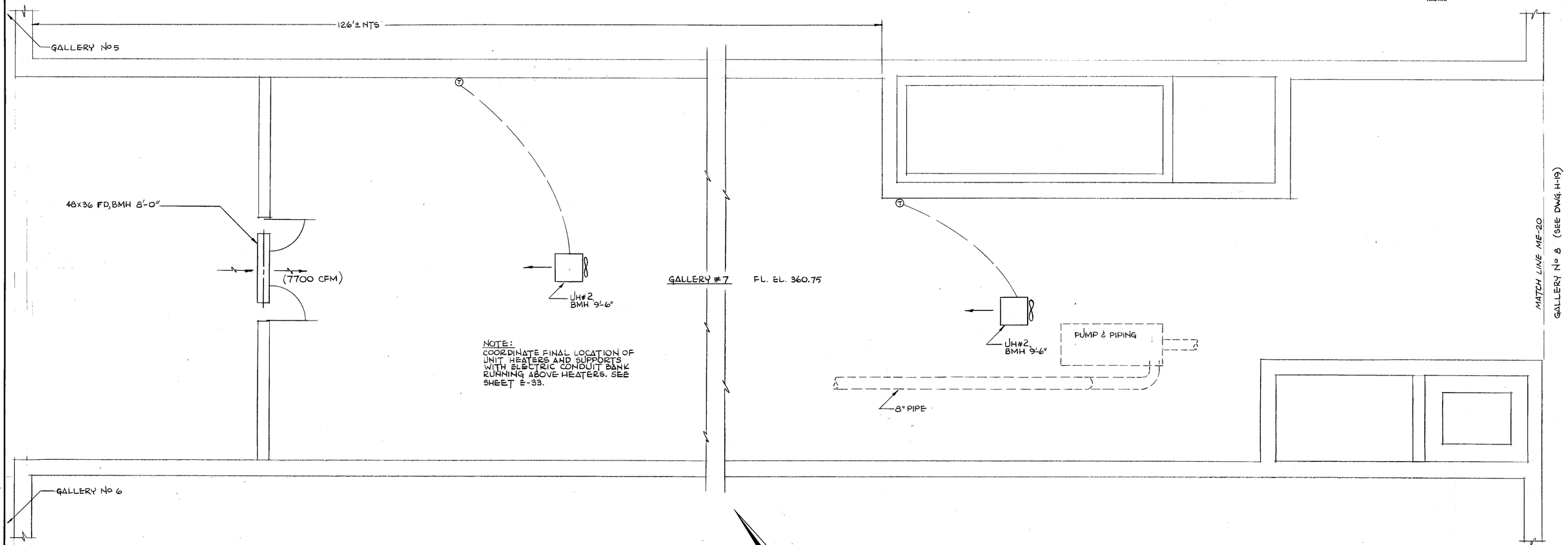
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 6 FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 17

257

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



GALLERY NO. 7 PLAN
SCALE 3/8"= 1'-0"

3/8" = 1'0" 1 0 1 2 3 4 5 6 7

LICENSED PROFESSIONAL ENGINEER
ROBERT J. MILLER
NO. 34071
STATE OF NEW YORK

R.J. Miller

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS WTF	3/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: Jack Swanson
APPROVED: S.G. Bugbee

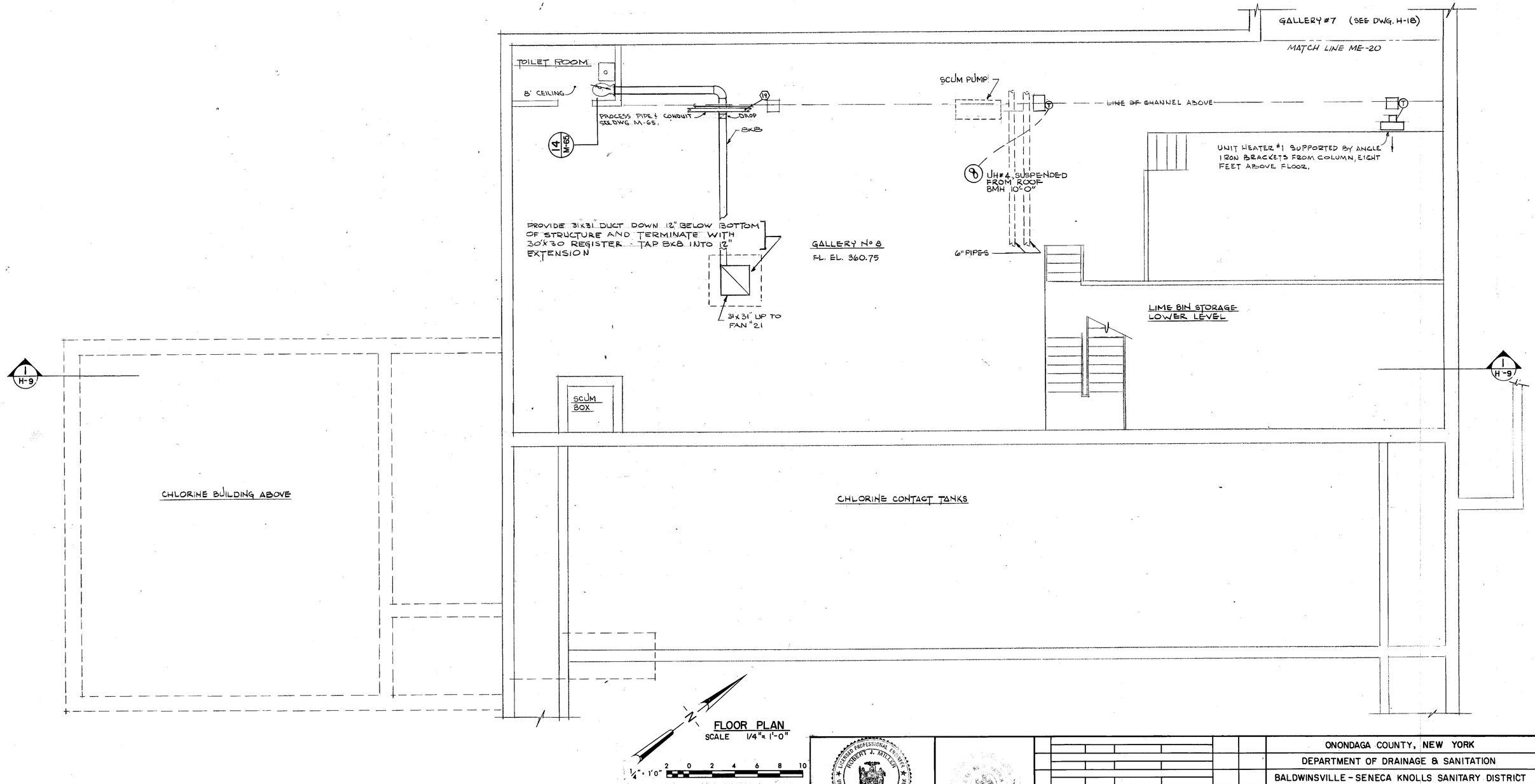
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 7 FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 18

8252

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



FLOOR PLAN
SCALE 1/4"= 1'-0"

LICENSED PROFESSIONAL ENGINEER
ROBERT J. MILLER
NO. 34073
THE STATE OF NEW YORK
R.J. Miller
MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION					
	WG	2/24/78	RJM	RJM	SGB	2/24/78
1	FOR APPROVALS					
	WTF	3/31/76	RJM	WTF	SGB	3/31/76

PROJECT SUPERVISOR: Joel Lawson
APPROVED: S. G. Bricker

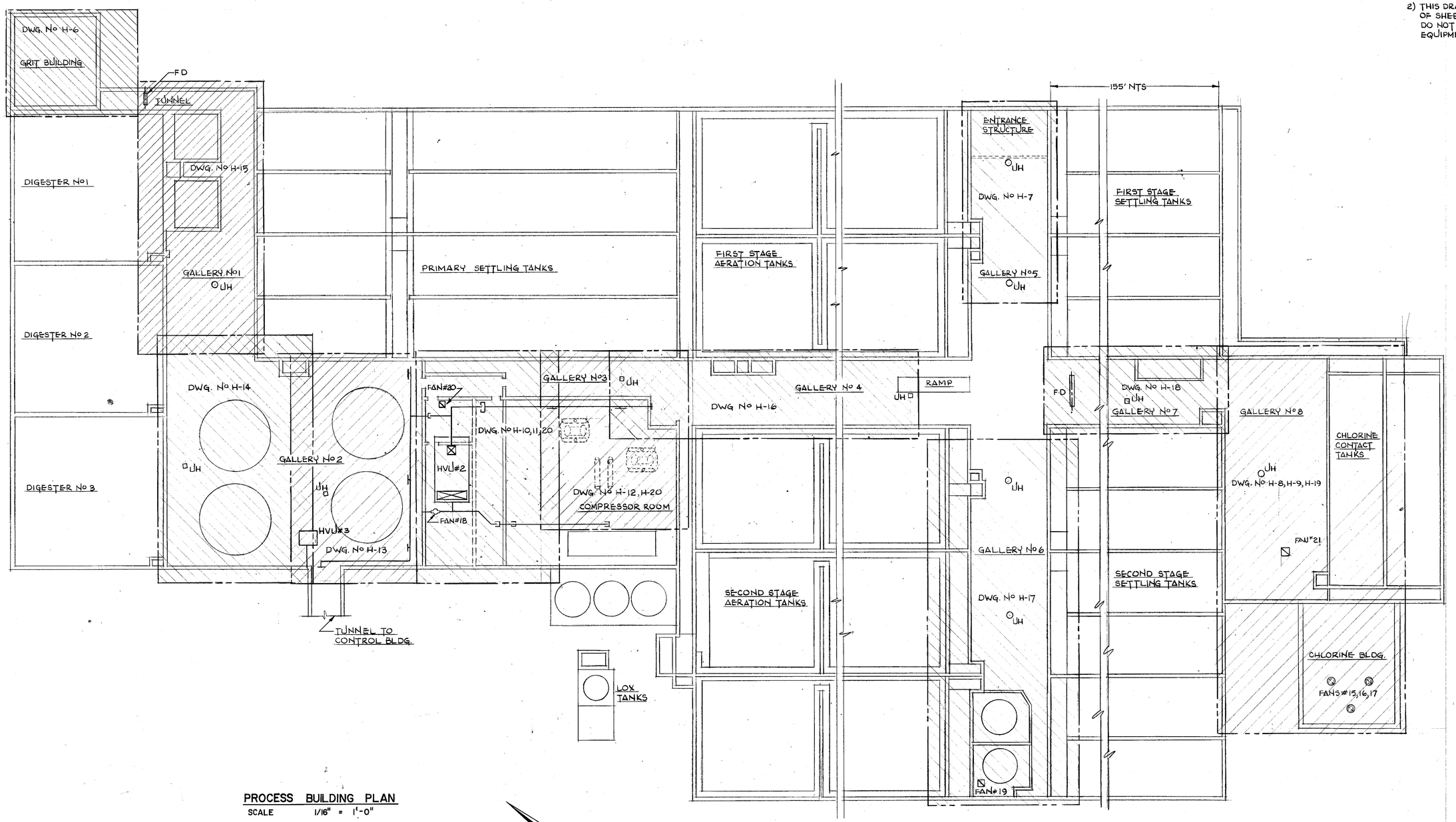
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY NO. 8 FLOOR PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 19

NOTES:

1) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
2) THIS DRAWING FOR REFERENCE OF SHEETS H-6 THROUGH H-22. DO NOT USE FOR SETTING EQUIPMENT.



PROCESS BUILDING PLAN

SCALE 1/16" = 1'-0"

LICENSED PROFESSIONAL ENGINEER — ROBERT J. MILLER — NO. 34072 — STATE OF NEW YORK

R.J. Miller

MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION				SLB	2/24/76
	WG	2/24/76	RJM	RJM		
1	FOR APPROVALS				SLB	8/31/76
	WTF	8/31/76	RJM	WTF		

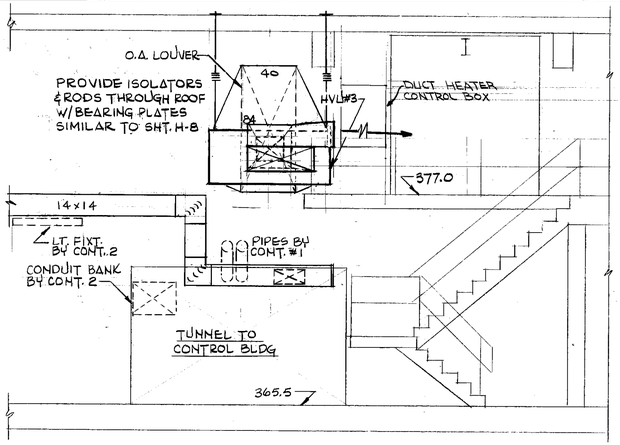
PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.C. Bristin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
KEY PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

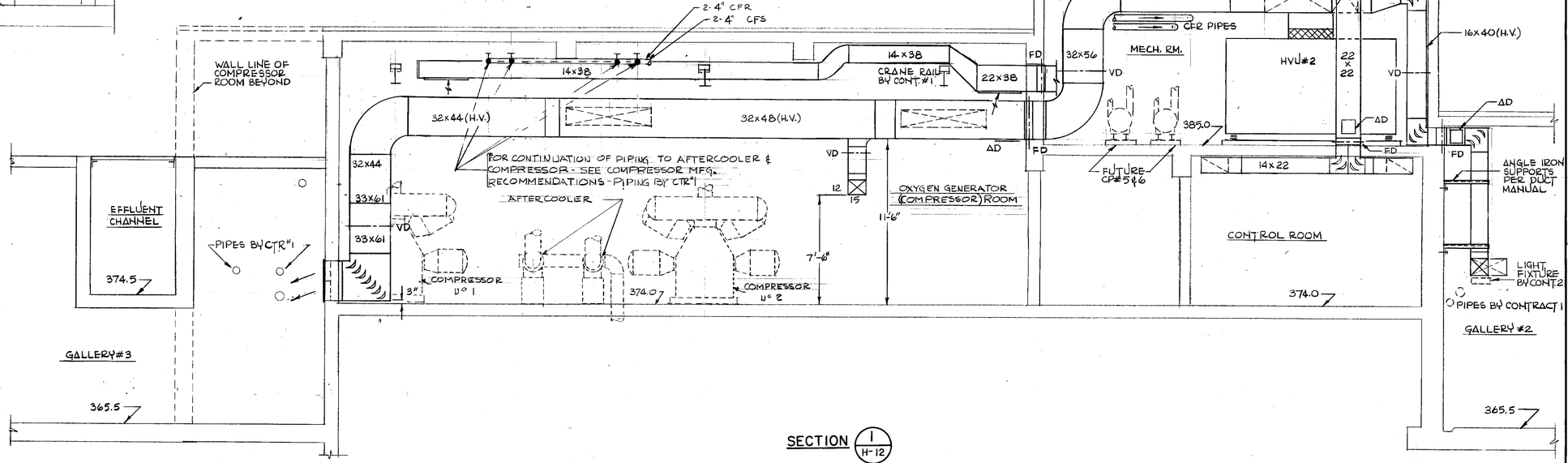
JOB NO. 577 | CONTRACT NO. 3 | SHEET H 20

259



SECTION 2 / H-13

SCALE 1/4"= 1'-0"



SECTION 1 / H-12

SCALE 1/4"= 1'-0"

NOTE:
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1/4"= 1'0" 2 0 2 4 6 8 10

D.J. Miller

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

A.G. WHELER 31573
S.G. BRISBIN 31810
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	WG	2/24/78	RJM	RJM	SGB	2/24/78
	FOR CONSTRUCTION					
1	WTF	3/31/76	RJM	WTF	SGB	3/31/76
	FOR APPROVALS					

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Brisbin

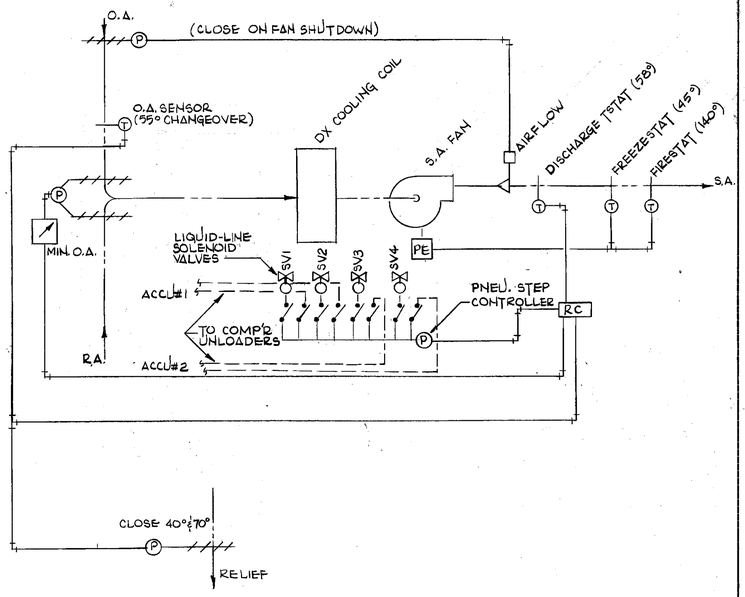
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT

PROCESS STRUCTURE
ELEVATIONS AND SECTIONS

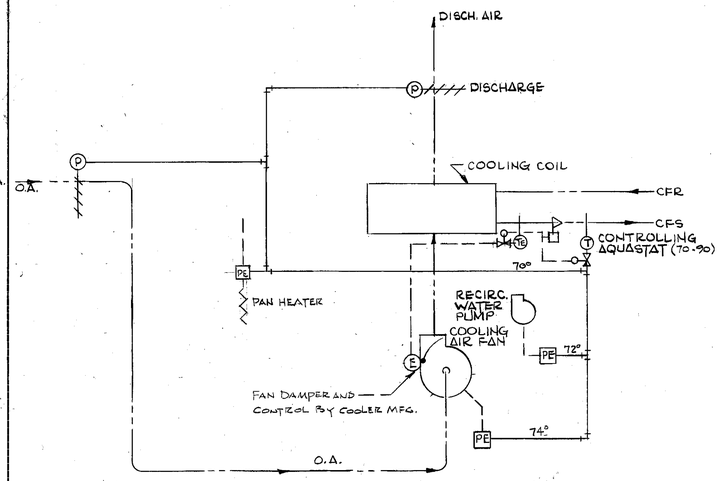
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONN.

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 22

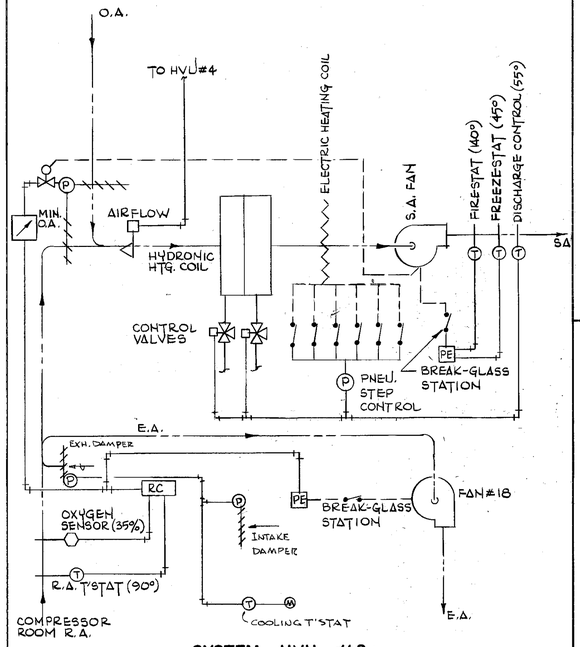
252



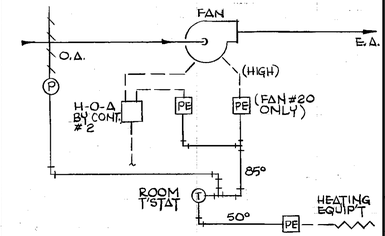
SYSTEMS ACS #1



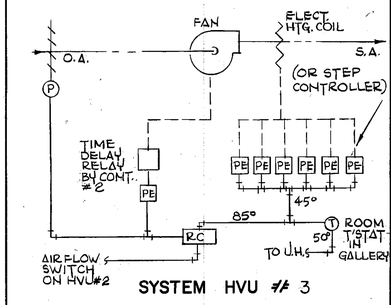
GLYCOL COOLERS TYP. FOR 2



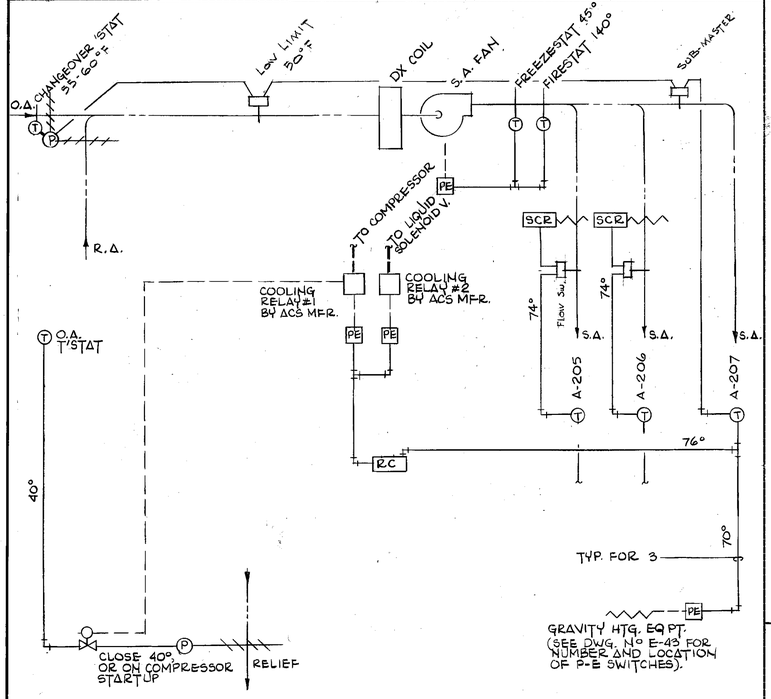
SYSTEM HVU #2



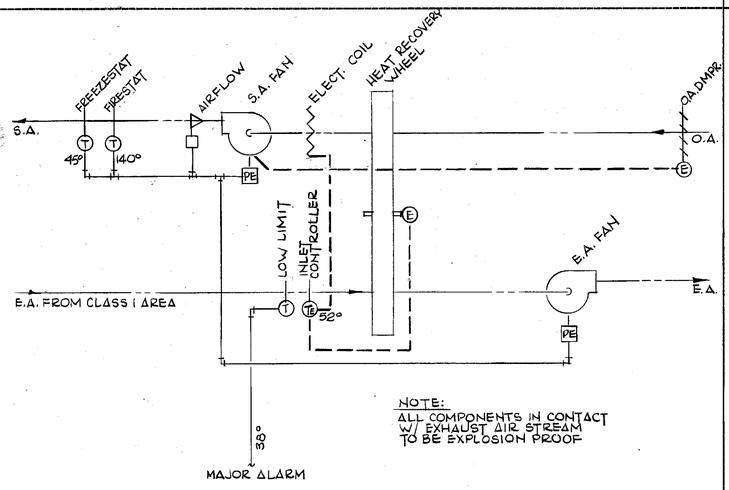
TEMP. CONTROLLED FAN
TYP. FOR 6



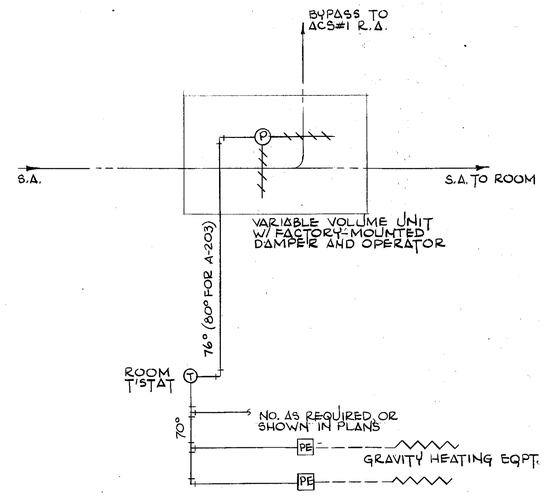
SYSTEM HVU #3



SYSTEM ACS #2



SYSTEM HVU #1



CONTROL BUILDING ROOM CONTROL
TYP. FOR 9

LEGEND

- CONTROL AIR LINE
- (M) MAIN AIR
- ELECTRIC WIRING BY CONTRACT 2
- FACTORY ELECTRIC WIRING
- AIR OR FLUID FLOW
- MOTOR-OPERATED DAMPER
- (P) PNEUMATIC OPERATOR
- (E) ELECTRIC MOTOR OPERATOR
- (T) PNEUMATIC THERMOSTAT
- (TE) ELECTRIC OR ELECTRONIC T'STAT
- PE PNEUMATIC-ELECTRIC SWITCH
- E-P OR SOLENOID VALVE
- RC RECEIVER-CONTROLLER
- FAN OR PUMP
- THREE WAY VALVE
- ELECTRIC HEATING APPARATUS
- POSITIONING SWITCH
- FLOW SWITCH

NOTE:
SCHEMATICS SHOW GENERAL ARRANGEMENT ONLY AND ARE NOT INTENDED TO BE ALL-INCLUSIVE. SEE SPECIFICATIONS FOR SEQUENCES, AND SHTS. E-46 THROUGH E-50 FOR WIRING DIAGRAMS.

R. J. Miller

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	FOR CONSTRUCTION					
	WG	2/24/78	RJM	RJM	SLB	2/24/78
1	FOR APPROVALS					
	WTF	3/31/76	RJM	WTF	SCB	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S. C. Brinton

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING & PROCESS STRUCTURE
CONTROL SEQUENCE SCHEMATICS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577- | CONTRACT NO. 3 | SHEET H 23

257

AIR DIFFUSER, REGISTER & GRILLE SCHEDULE

RM. NAME & NO.	SUPPLY AIR CFM	SUPPLY AIR SIZE	SUPPLY AIR TYPE	EXHAUST OR RETURN AIR CFM	EXHAUST OR RETURN AIR SIZE	EXHAUST OR RETURN AIR TYPE	RM. NAME & NO.	SUPPLY AIR CFM	SUPPLY AIR SIZE	SUPPLY AIR TYPE	EXHAUST OR RETURN AIR CFM	EXHAUST OR RETURN AIR SIZE	EXHAUST OR RETURN AIR TYPE
INFLUENT A-01				6000	36x30	E1	LUNCH RM. A-152				150	8x8	E2
" A-01							SHOWER A-150				100	6x6	E1
PUMP RM. A-02	1600	24x16	S2	1600	30x12	E2	CONTROL A-202	230	48x4	3			
							" A-202	230					
							" A-202	230					
VESTIBULE A-111				1200	22x22	E2	" A-202	230					
LOBBY A-112	155	48x4	3				" A-202	230					
" A-112	155						ELEC. RM. A-203	1200	15"ϕ	2			
CONF. RM. A-117	150						" " A-203	1200	15"ϕ	2			
" " A-117	150												
" " A-117	150												
OFFICE A-118	160						TRAINING A-204	150	48x4	3			
" A-118	160						" A-204	150	48x4	3			
" A-118	160						BACT. LAB. A-205	400	48x5	3			
" A-118	160						LAB OFC. A-206	120	8"ϕ	2			
OFFICE A-120	140						LAB T'RY A-207	650	12"ϕ				
" A-120	140						" A-207	650					
" A-120	140						" A-207	650					
" A-120	140						" A-207	650					
MEN'S T. A-124				125	8x8	E2	VAC. FILT. A-208				3700	24x24	E2
JAN. CL. A-125				50	6x6		" " A-208				3700	24x24	E2
WOM. T. A-126				125	8x8		" " A-208				3700	24x24	E2
							CHLORINE RM				1750	12x18	E1
							CHLORINE RM				2500	18x18	E1
VAC. FILT. A-129	3500	40x15	1				CHLORINE STOR.				6100	24x36	E1
" " A-129	3500	40x15	1				CHLORINE STOR.				8750	30x36	E1
" " A-129	2500	40x12	1				GALLERY N° 8				7500	30x30	E1
HALL A-130				20200	96x36	E2	STAIR TOWER	250	12x8	S2			
GRIT SCR. A-134	9000	70x15	1				GALLERY N°3	1050	15x12	1			
							GALLERY N°3	9000	60x15	1			
LUNCH RM. A-139	210	48x4	3	150	8x8	E2	GALL'Y TOIL. RM.				50	6x6	E2
" " A-139	210	48x4	3				COMPR. RM.	4600	70x12	1	4600	36x36	E2
MTCE. FORE A-141	525	10"ϕ	2				COMPR RM.	4600	70x12		4600	36x36	E2
" " A-141	525	10"ϕ	2				GALLERY N°2	2500	50x12				
CORRIDOR A-140	100	6"ϕ	2				" "	2500	50x12				
							" "	2500	44 x16				
STORAGE A-155				50	6x6	E2	" "	3500	44 x16				
LOCKER A-146				80	6x6		" "	3500	50x15				
" A-146				80			TUNNEL	1100	20 x12				
" A-146				80									
SHOWER A-147				100		E1	ELECTRIC RM.				(2)2000	22x22	E2
" A-147				100		E1	" "				900	36 x12	
TOILET A-148				80		E2	CONTROL RM.				(2) 450	18x6	
LOCKER A-149				65			" "				900	36 x12	
" A-149				65			TOILET RM.				100	8x6	

CABINET HEATER & UNIT HEATER SCHEDULE

UNIT NO.	LOCATION	TYPE	MAX. CFM	INPUT, KW	~~GPM~~	~~P.D. FT.~~	~~WATER T. @ °F~~	E.A.T. °F	L.A.T. °F	POWER SUPPLY V — ϕ	MOTOR H.P.	DESIGN EQUIPMENT	NOTES
CH# 1	STAIR A-119	WALL	500	9.0				60	116	480-3	1/20	CABINET HEATER	1
CH# 2	VEST. A-138	WALL	500	6.0				60	98		1/20		2
CH# 3	PROCESS BLD.	SURF. WALL	500	6.0				50	88		1/20		4
UH# 1	SEE PLANS	HORIZONTAL	750	15.0				50	110		1/10	HORIZ. UNIT HTR.	
UH#2		HORIZONTAL	670	7.5				55	120		1/12	" " "	
UH#3		VERTICAL	1300	15.0				60	93		1/6	VERTICAL U.H.	
UH#4		VERTICAL	1300	10.0				60	84		1/6		
UH#5		VERTICAL	540	5.0				50	80		1/20		3
UH#6		VERTICAL	570	7.5				50	93		1/20		3
CH#4	LAB. A-207	WALL	1000	7.0				60	95		1/8	CABINET HEATER	2, 4

NOTES:
1) SEMI-RECESSED; RECESS DEPTH 4" (VERIFY)
2) FULLY RECESSED
3) PROVIDE RADIAL DIFFUSER ON OUTLET
4) FRONT INLET, VERTICAL DISCHARGE

ROOF VENTILATOR SCHEDULE

UNIT NO.	SERVICE	LOCATION	NECK SIZE	C F M	S.P. LOSS	DESIGN EQUIPMENT	NOTES
RV# 1	INTAKE	A-141 ROOF	66x 15	8000	0.22"	GRAVITY ROOF VENTILATOR	1, 3, 4
RV# 2	RELIEF	A-201 ROOF	36x 36	7000	0.10"		1, 3
RV# 3	EXHAUST	A-207 ROOF	15 X 15	1500	0.13"		1, 2
RV#4	EXHAUST	A-207 ROOF	12 X 12	1000	0.14"		1, 2
RV#5	INTAKE	MECH. ROOF	120X 36	37100	0.14"		1, 5

NOTES:
1) P.V.C. BIRDSCREEN
2) BACKDRAFT DAMPER, NON-METALLIC
3) MOTORIZED DAMPER BY TEMP. CONTROL
4) 800 CFM MINIMUM
5) 27,000 CFM MINIMUM

NOTE:
EQUIPMENT SCHEDULE ARE FOR CONVENIENCE ONLY.
CONTRACTOR IS OBLIGED TO PROVIDE ALL EQUIPMENT SHOW ON DRAWINGS AND/OR SPECIFIED.

AIR CONDITIONING SYSTEM SCHEDULE

SYSTEM NO.	SERVICE	LOCATION	C F M	E.S.P.	R P M	MAX. O.V. F.P.M.	COOLING CAPACITY E.A.T. °F DB	E.A.T. °F WB	L.A.T. °F DB	L.A.T. °F WB	SST °F	REF.	MBH	HEATING CAPACITY E.A.T. °F	L.A.T. °F	MIN. MBH	MAX. GPM	T.D. °F	P.D. FT.	MOTOR V — ϕ	MOTOR H.P.	DESIGN EQUIPMENT	NOTES
HVU # 1	INFLUENT	A-133	20200	1"		3100								36.0	56.0	512	—	—	—	460-3	(2)20	HEAT REC'V UNIT	1,3,5,6
HVU # 2	PROCESS	MECH. RM.	36,330	1¾	475	3450								9.8	34.2	1000	125	18	24		40	FAN & COIL UNIT	3,4,5
ACS # 1	OFFICES	A-122	7285	1⅞"	800	2600	81	65	58	56	47	R-22	238.7								10	FAN & COIL UNIT	5
ACS # 2	LABS	A-205 ROOF	3120	1½"	1480	1450	79	65	54	53	42	R-22	38.6								3	ROOFTOP A.C.U.	2, 5, 7
HVU#3	GALL'Y#2	SAME	7000	3¼"	900	3600								-10.0	37.0	382	—	—	—		5	FAN & COIL UNIT	3, 5

NOTES:
1) EXPLOSION-PROOF EXHAUST AIR FAN, 22,000 CFM @ 1¼" E.S.P.
2) FULL PERIMETER ROOF CURB W/ VIB. ISOL. RAIL ASSEMBLY
3) ELECTRIC REHEAT COIL, SEE SCHEDULE BELOW
4) TWO HEATING COILS REQ'D, EACH TO PERFORM AS SHOWN.
5) E.S.P. INCLUDES AIR FILTER P.D.
6) E.S.P. DOES NOT INCLUDE HEAT RECOVERY WHEEL, COOLING OR HEATING COIL P.D.
7) MAX. UNIT KW - 15 KW - 460V-60HZ-3 PH.

FAN SCHEDULE

FAN NO.	SERVICE	LOCATION	C F M	E.S.P.	MAX. T.S. OR O.V. F.P.M.	R.P.M.	TYPE	DRIVE	MOTOR V — ϕ	MOTOR H.P.	DESIGN EQUIPMENT	NOTES
FAN#1	INFLUENT	GRIT SC. A-134	6000	3/8"	2650	1350	SWSI	BELT	460-3	2	CENTRIFUGAL	1, 2, 4
#2	VAC. FILT.	A-208 ROOF	15000	3/8"	3860	295	PRE	BELT		3	LOW PROFILE	
#3	VAC. FILT.	A-208 ROOF	15000	3/8"	3860	295	PRE			3		
#4	SW'GEAR	A-116	1400	1/8"	—	1140	PROP.	DIRECT	115-1	½	PROPELLER	
#5	TOILETS	A-142 ROOF	450	1/4"	3900	1180	PRE	BELT		¼	LOW PROFILE	
#6	ACS'1-SYSTEM	A-122	500	¼"	3280	1140	INLINE	DIRECT		½	INLINE CENT.	
#7	SHOP	A-144 ROOF	1200	1/8"	4250	1290	PRE	BELT		⅓	LOW PROFILE	
#8	LOCKERS	A-146 ROOF	1050	3/8"	4450	1350	PRE			⅓		
#9	GARAGE	A-153 ROOF	1200	1/8"	4250	1290	PRE			⅓		
#10	CONF. RM.	CONF. A-117	300	¼"	—	1050	CABINET	DIRECT		1/6	CABINET FAN	3
#11	GRIT BLDG.	B-1 ROOF	3250	1/8"	2985	465	PRE	BELT		⅓	LOW PROFILE	1, 2
#12	GRIT BLDG.	B-1 ROOF	3250	1/8"	2985	465				⅓		1, 2
#13	ENT. STRUC.	SAME	4450	1/4"	3200	410			460-3	½		
#14	LIME BIN ST.	SAME	6350	½"	2250	1080	SWSI	BELT		2	CENTRIFUGAL	2, 4
#15	CHLORINE BLD.	ROOF	6100	3/8"	5325	830	UPBLAST			2	UPBLAST PRE	2, 4
#16	CHLORINE RM.		4250	½"	4265	650				1		2, 4
#17	CL2 STOR.		8750	½"	4800	610				3		2, 4
#18	COMP. ROOM	MECH. RM.	11,700	½"	2800	940	INLINE			5	INLINE CENT.	
#19	GALLERY #6	ROOF	7500	1/8"	5275	750	PRE			2	LOW PROFILE	
#20	ELECT. RM.	MECH. ROOF	4900	½"	4780	680	PRE			2		
#21	GALLERY #8	ROOF	7350	¼"	4400	555	PRE			½		
#22	A-05	MECH. RM.	330	¼"	945	1725	INLINE	DIRECT	115-1	½	INLINE CENT.	

NOTES:
1) EXPLOSION-PROOF
2) CORROSION-RESISTANT
3) SOLID-STATE VARIABLE SPEED CONTROLLER
4) INTERMITTENT SERVICE

REHEAT COIL SCHEDULE

COIL NO.	SERVICE	LOCATION	CFM	W" x H"	KW	E.A.T. °F	L.A.T. °F	POWER SUPP. V — ϕ	DESIGN EQUIPMENT	NOTES:
RHC#1	LAB OFFICE	A-206	120	8x8	1.0	54	80	277 — 1	AIR HEATING COIL	3
RHC#2	BACT. LAB	A-205	400	10x8	3.0	54	78	277 — 1		3
	CONTROL	HVU#1	20200	96x42	150.0	36.0	56.0	460 - 3		1,2,4
	PROCESS	HVU#2	36850	116x72	500.0	9.8	52.1			1,2,4
	GALLERY#2	HVU# 3	7000	78x28	112.0	-10.0	37.0			1,2,4

NOTES:
1) SUPPLIED & INSTALLED BY HVU MANUFACTURER
2) SIZE APPROXIMATE; MANUFACTURER TO DETERMINE
3) SCR CONTROLLER ON LAST STEP OF CONTROL
4) STEP CONTROL; MAX. 7½° AIR TEMP. RISE PER STEP

AIR LOUVER SCHEDULE

LOCATION	SERVICE	SIZE W"x H"	CFM	F P M	AIR P.D.	DEPTH	NOTES
SWITCHGEAR A-116	INTAKE	72 36	1400	325	.058	2"	1
GRIT SCREEN A-134	EXHAUST	84 36	6000	693	.14	2"	2,3,6
EMER. GEN A-135	INTAKE	48 84	21000	890	.24	2"	1
" "		34 36	8700			2"	1
" "		54 36	8700			2"	1
" "		54 36	8700			2"	1
" "		96 36	19200			2"	1
" "		96 36	15700			2"	1
" "	EXHAUST	96 224	36200	1335	.19	8"	2,3,6
" "	EXHAUST	96 224	36200	1335	.19	8"	2,3,6

NOTES: 1) MOTORIZED DAMPER BY TEMP. CONT. 2) BACKDRAFT DAMPER 3) PROVIDE DOUBLE WALL ALUMINUM BACKPLATE WITH 1" FOAMED INSULATION BETWEEN. PROVIDE CUTOUTS AS REQUIRED. 4) 3 LOUVERS INSTALLED IN ONE M.O. 5) FOR FUTURE USE. 6) VELOCITY LISTED IS THRU CUTOUT SECTION.

AIR LOUVER SCHEDULE

LOCATION	SERVICE	SIZE W"x H"	CFM	F P M	AIR P.D.	DEPTH	NOTES
LIME BIN STOR.	EXHAUST	48 42	6350	630	.13	2"	2
PROC. BLDG. MECH.	INTAKE	50 96	2500	425	.02	8"	1,3,4,6
" " "		50 96	15000	1091	.13	8"	1, 4
" " "		50 96	15000	1091	.13	8"	1, 4
" " "	DUMMY	50 96	——	——	——	8"	3,4,5
" " "		50 96	——	——	——	8"	3,4
" " "		50 96	——	——	——	8"	3,4
" " "	EXHAUST	42 42	9200	1040	.32	2"	2
ELECTRIC RM.	INTAKE	96 18	4900	600	.14	2"	1
THICKENER RM.	INTAKE	40 84	7300	730	.046	8"	1

PUMP SCHEDULE

PUMP NO.	SERVICE	LOCATION	TYPE	GPM	HEAD FT.	MOTOR RPM	MOTOR V — ϕ	MOTOR H.P.	DESIGN EQUIPMENT	NOTES
CP#1	COOL'G WTR	MECH. RM.	BASE-MT.	125	74	1750	460-3	10	VERTICAL SUCT.	3
CP#2										1,3
CP#3										3
CP#4										2,3

NOTES:
1) STANDBY PUMP FOR CP#1
2) STANDBY PUMP FOR CP#3
3) PUMPING 50% SOLUTION OF ETHYLENE GLYCOL

FILTER SCHEDULE

SERVICE	LOCATION	C F M	SIZE L	SIZE H	SIZE D	EFF %	INITIAL P.D.	FINAL P.D.	DESIGN EQUIPMENT	NOTES
FILTER #1	MECH. A-122	8000	73	38	21	45	.38"	.80"		1, 2
FILTER #2	LAB. A-205	3400	50	27	21	45	.36"	.80"		1, 2

NOTES:
1) PROVIDE 2" DEEP HIGH VELOCITY PREFILTERS
2) SIDE-SERVICING HOUSING

ELECTRIC WALL FIN RADIATION SCHEDULE

SYMBOL ON PLANS	TOTAL CAP. WATTS	POWER SUPPLY V — ϕ	ENCLOSURE SIZE L	H	D	DESIGN EQUIPMENT	NOTES
①	750	277 - 1	36	11	3	SILL-LINE HEATER	1, 3
②	1000		48				1, 3
③	1250		60				1, 3
④	1500		72				1, 3
⑤	2000		96				1, 3
⑥	2000		60	8	4¼	PEDESTAL HEATER	
⑦	1800		34	18	7	EXPLOSIONPROOF CV.	2

NOTES:
1) PE SWITCH BY TEMP CONTROL INSIDE ENCLOSURE
2) UL LISTED FOR CLASS 1, GROUP C ATMOSPHERE
3) UNIT-MOUNTED DISCONNECT SWITCH

VARIABLE VOLUME UNIT SCHEDULE

UNIT NO.	SERVICE	CFM	INLET S.P., MIN.	S.P. DROP	DESIGN EQUIPMENT	NOTES
VVU#1	LOBBY A-112	310	.14"	.12"	VARIABLE VOLUME UNIT	1
#2	CONF. A-117	450	.24"	.20"		1
#3	OFFICE A-118	640	.23"	.19"		1, 3
#4	OFFICE A-120	560	.18"	.15"		1, 3
#5	MTCE. A-141	1050	.23"	.20"		1
#6	LUNCH A-139	425	.21"	.19"		1
#7	TRNG A-204	300	.14"	.12"		1
#8	ELEC. A-203	2400	.46"	.43"		1, 2, 3
#9	CONF. A-202	1150	.30"	.23"		1
#10	TRNG A-105	500	.18	.15		1

NOTES:
1) FACTORY-MOUNTED PNEUMATIC DAMPER OPERATOR
2) UNIT MOUNTED REMOTE FROM ROOM SERVED
3) MOUNTED IN INVERTED POSITION

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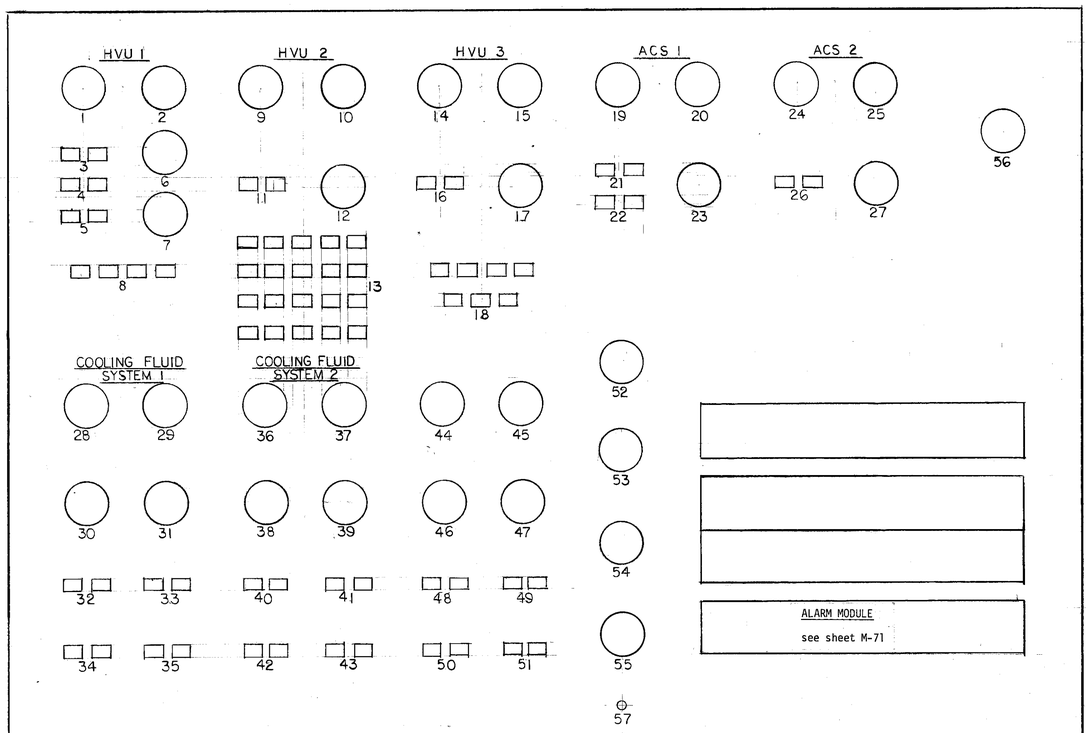
ISSUE NO.		DATE			
2	FOR CONSTRUCTION				
	WG	2/24/78	RJM	RJM	2/24/78
	FOR APPROVALS				
1	WTF	5/31/76	RJM	WTF	8/31/76
	DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: Joel Levenson
APPROVED: S.G. Brinkin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING & PROCESS STRUCTURE
EQUIPMENT SCHEDULES
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 3 | SHEET H 24



INSTRUMENTATION LAYOUT

UNIT NUMBER	SERVICE	LOCATION
HVU # 1	INFLUENT ROOM	A-133
HVU # 2	PROCESS	MECHANICAL ROOM
HVU # 3	GALLERY # 2	GALLERY # 2
ACS # 1	OFFICES	A-122
ACS # 2	LABS	ROOF
FAN # 1	INFLUENT ROOM	A-134
FAN # 2	VACUUM FILTER ROOM	ROOF
FAN # 3	VACUUM FILTER ROOM	ROOF
FAN # 4	SWITCHGEAR ROOM	A-116
FAN # 5	TOILET ROOM	ROOF
FAN # 6	TRAINING ROOM	MECHANICAL ROOM
FAN # 7	SHOP	ROOF
FAN # 8	LOCKER ROOM	ROOF

UNIT NUMBER	SERVICE	LOCATION
FAN # 9	GARAGE	ROOF
FAN #10	CONFERENCE ROOM	A-117
FAN #11	GRIT BUILDING	ROOF
FAN #12	GRIT BUILDING	ROOF
FAN #13	ENTRANCE STRUCTURE	ENTRANCE STRUCTURE
FAN #14	LIME BIN STORAGE	LIME BIN STORAGE
FAN #15	CHLORINE BUILDING	ROOF
FAN #16	CHLORINE ROOM	ROOF
FAN #17	CHLORINE STORAGE	ROOF
FAN #18	COMPRESSOR ROOM	MECHANICAL ROOM
FAN #19	GALLERY # 6	ROOF
FAN #20	ELECTRIC ROOM	MECHANICAL ROOM
FAN #21	GALLERY # 8	ROOF
FAN #22	TRAINING ROOM	MECHANICAL ROOM

NOTE:

LEGEND TO BE INSCRIBED ON LAMINATED PLASTIC PLATE HAVING WHITE LETTERS ON BLACK BACKGROUND.

CONSOLE LAYOUT

SCALE: 3" = 1'-0"

1 - HVU # 1 SUPPLY AIR TEMPERATURE
2 - HVU # 1 RETURN AIR TEMPERATURE
3 - HVU # 1 SUPPLY AIR FAN ON-OFF
4 - HVU # 1 RETURN AIR FAN ON-OFF
5 - HEAT WHEEL FAN ON-OFF
6 - SYSTEM FILTER - EXHAUST AIR
7 - SYSTEM FILTER - OUTDOOR AIR
8 - ELECTRIC HEAT COIL STAGES 1, 2, 3, 4, ON

9 - HVU # 2 SUPPLY AIR TEMPERATURE
10 - HVU # 2 RETURN AIR TEMPERATURE
11 - HVU # 2 SUPPLY AIR FAN ON-OFF
12 - SYSTEM FILTER
13 - ELECTRIC HEAT COIL STAGES 1 through 20 ON

14 - HVU # 3 SUPPLY AIR TEMPERATURE
15 - HVU # 3 RETURN AIR TEMPERATURE
16 - HVU # 3 SUPPLY AIR FAN ON-OFF
17 - HVU # 3 SYSTEM FILTER
18 - ELECTRIC HEAT COIL STAGES 1 through 7 ON

19 - ACS # 1 SUPPLY AIR TEMPERATURE
20 - ACS # 1 RETURN AIR TEMPERATURE
21 - ACS # 1 SUPPLY AIR FAN ON-OFF
22 - FAN #22 ON-OFF
23 - SYSTEM FILTER

24 - ACS # 2 SUPPLY AIR TEMPERATURE
25 - ACS # 2 RETURN AIR TEMPERATURE
26 - ACS # 2 SUPPLY AIR FAN ON-OFF
27 - ACS # 2 SYSTEM FILTER

28 - COOLING FLUID TEMPERATURE IN AT HVU # 1 - CIRCUIT # 1
29 - COOLING FLUID TEMPERATURE OUT AT HVU # 1 - CIRCUIT # 1
30 - COOLING FLUID TEMPERATURE IN AT COOLER # 1
31 - COOLING FLUID TEMPERATURE OUT AT COOLER # 1
32 - COOLING FLUID PUMP # 1 ON-OFF
33 - COOLING FLUID PUMP # 2 ON-OFF
34 - COOLER # 1 SPRAY PUMP ON-OFF
35 - COOLER # 1 FAN ON-OFF

36 - COOLING FLUID TEMPERATURE IN AT HVU # 1 - CIRCUIT # 2
37 - COOLING FLUID TEMPERATURE OUT AT HVU # 1 - CIRCUIT # 2
38 - COOLING FLUID TEMPERATURE IN AT COOLER # 2
39 - COOLING FLUID TEMPERATURE OUT AT COOLER # 2
40 - COOLING FLUID PUMP # 3 ON-OFF
41 - COOLING FLUID PUMP # 4 ON-OFF
42 - COOLER # 2 SPRAY PUMP ON-OFF
43 - COOLER # 2 FAN ON-OFF

44-51 - FUTURE

52 - GALLERY # 1 SPACE TEMPERATURE
53 - GALLERY # 5 SPACE TEMPERATURE
54 - GALLERY # 6 SPACE TEMPERATURE
55 - GALLERY # 8 SPACE TEMPERATURE

56 - OUTDOOR AIR TEMPERATURE

57 - LAMP TEST

58 - FAN # 1 ON-OFF
59 - FAN # 2 ON-OFF
60 - FAN # 3 ON-OFF
61 - FAN # 4 ON-OFF
62 - FAN # 5 ON-OFF
63 - FAN # 6 ON-OFF
64 - FAN # 7 ON-OFF
65 - FAN # 8 ON-OFF
66 - FAN # 9 ON-OFF
67 - FAN #10 ON-OFF
68 - FAN #11 ON-OFF
69 - FAN #12 ON-OFF
70 - FAN #13 ON-OFF
71 - FAN #14 ON-OFF
72 - FAN #15 ON-OFF
73 - FAN #16 ON-OFF
74 - FAN #17 ON-OFF
75 - FAN #18 ON-OFF
76 - FAN #19 ON-OFF
77 - FAN #20 ON-OFF
78 - FAN #21 ON-OFF
79 - FAN #22 ON-OFF
80 - FUTURE
81 - FUTURE

ALARMS - 40 POINTS

HVU # 1 - SUPPLY AIR FAN OPERATION FAILURE
HVU # 1 - RETURN AIR FAN OPERATION FAILURE
HVU # 1 - ELECTRIC HEAT COIL STAGES 1 to 4 OPERATION FAILURE

HVU # 2 - SUPPLY AIR FAN OPERATION FAILURE
HVU # 2 - ELECTRIC HEAT COIL STAGES 1 to 20 OPERATION FAILURE

HVU # 3 - SUPPLY AIR FAN OPERATION FAILURE

FAN # 1 - OPERATION FAILURE
FAN # 1 - GAS PRESENT FAN - ON
FAN #16 - OPERATION FAILURE
FAN #14 - OPERATION FAILURE
FAN #18 - OPERATION FAILURE
FAN #18 - HIGH OXYGEN - FAN ON
INFLUENT ROOM EXHAUST AIR LESS THAN 35° F
PROCESS BUILDING TEMPERATURE LESS THAN 38°F
HVU # 2 - COOLING FLUID SUPPLY LESS THAN 70° OR MORE THAN 90°

SPARE ALARM POINTS (2)

LEGEND

- 2½ GAGE-PROVIDED BY CT. 3 - INSTALLED BY CT. 1.
- STATUS INDICATOR LIGHTS BY CT. 1

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

3" = 1'-0" 0 3 6 9 1

LICENSED PROFESSIONAL ENGINEER ROBERT J. MATLECK NO. 34071 UNIVERSITY OF THE STATE OF NEW YORK

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LICENSED PROFESSIONAL ENGINEER STERLING G. BRISTIN 31810 UNIVERSITY OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	FOR CONSTRUCTION					
	WG	2/24/78	RJM	RJM	SAB	2/24/78

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Bristin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
MAIN CONTROL PANEL
COMFORT CONTROL SECTION

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 3 SHEET H 25

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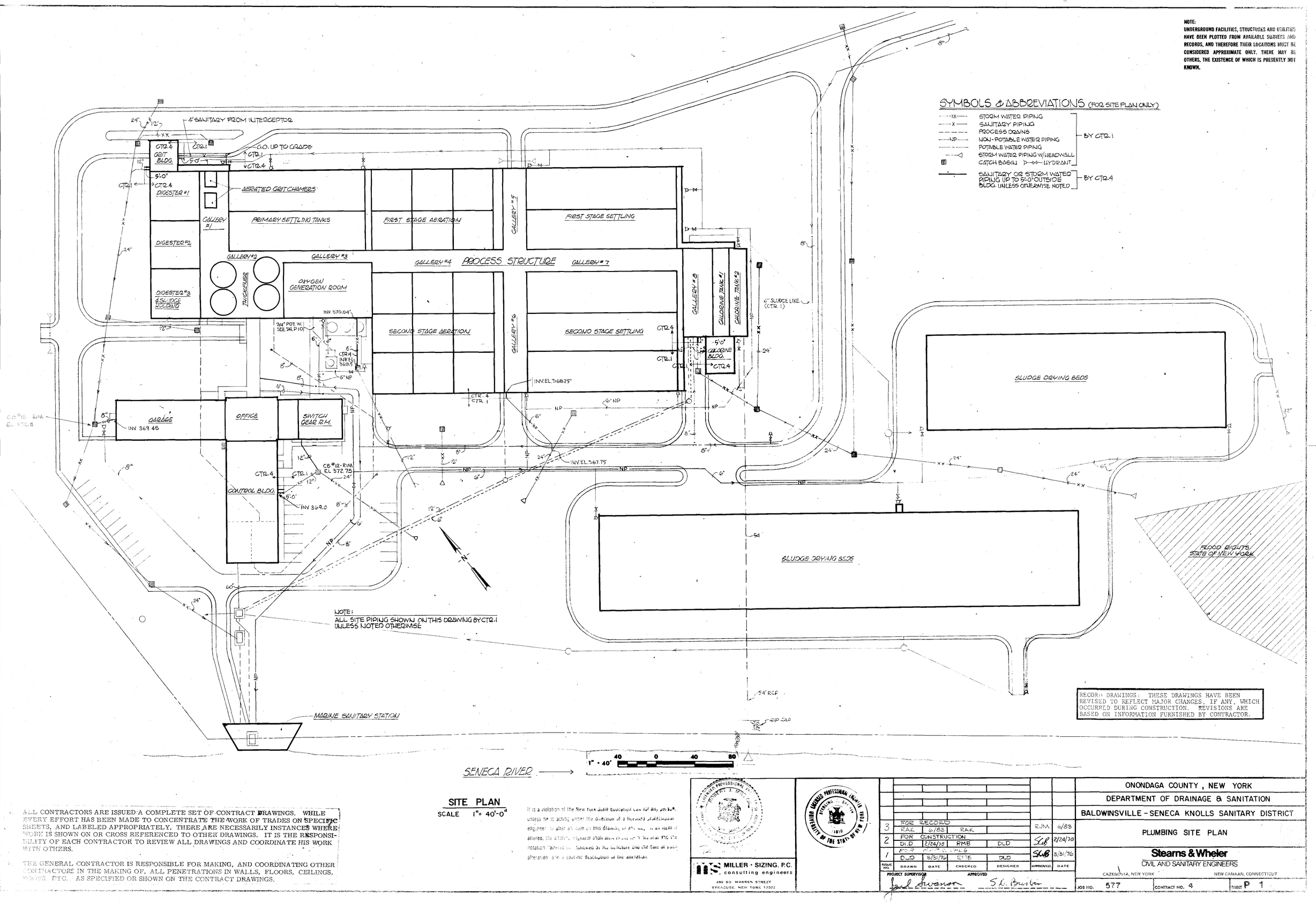
SYMBOLS & ABBREVIATIONS (FOR SITE PLAN ONLY)

- XX — STORM WATER PIPING
- X — SANITARY PIPING
- PROCESS DRAINS
- NP — NON-POTABLE WATER PIPING
- POTABLE WATER PIPING
- STORM WATER PIPING W/HEADWALL
- CATCH BASIN — HYDRANT

BY CTR.1

- SANITARY OR STORM WATER PIPING UP TO 5'-0" OUTSIDE BLDG. UNLESS OTHERWISE NOTED

BY CTR.4



RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

SITE PLAN
SCALE 1" = 40'-0"

ALL CONTRACTORS ARE ISSUED A COMPLETE SET OF CONTRACT DRAWINGS. WHILE EVERY EFFORT HAS BEEN MADE TO CONCENTRATE THE WORK OF TRADES ON SPECIFIC SHEETS, AND LABELED APPROPRIATELY, THERE ARE NECESSARILY INSTANCES WHERE WORK IS SHOWN ON OR CROSS REFERENCED TO OTHER DRAWINGS. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO REVIEW ALL DRAWINGS AND COORDINATE HIS WORK WITH OTHERS.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING, AND COORDINATING OTHER CONTRACTORS IN THE MAKING OF, ALL PENETRATIONS IN WALLS, FLOORS, CEILINGS, ROOFS, ETC., AS SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing in any way. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		RJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SLB	2/24/78
1	FOR [illegible] DLD	8/31/76	[illegible]	DLD	SLB	8/31/76

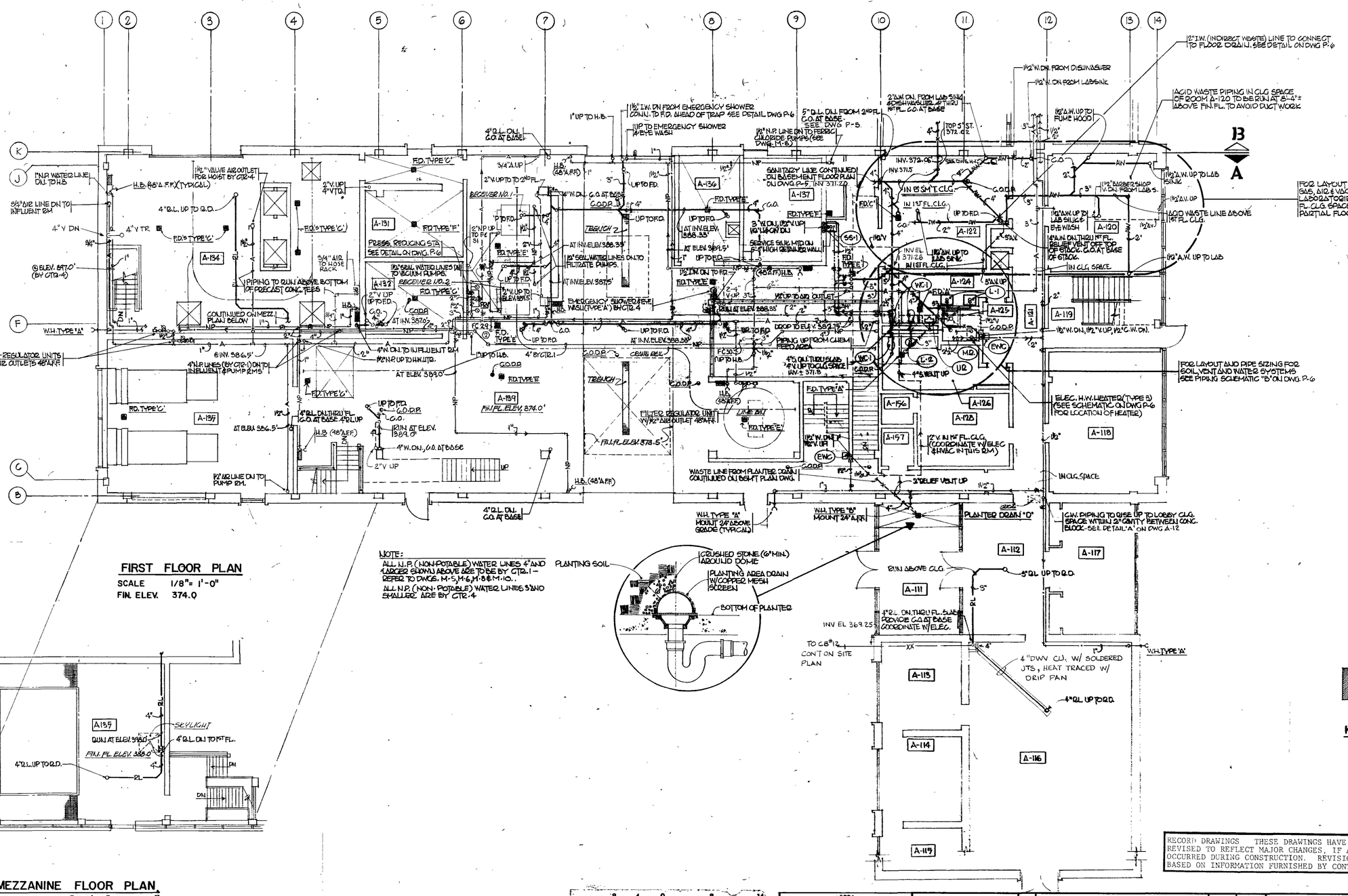
PROJECT SUPERVISOR: [signature] APPROVED: [signature]

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PLUMBING SITE PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 4 | SHEET P 1

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.


1½" VALVE AIR OUTLET FOR HOIST BY CTR.-4
H.B. (48"A.F.F.)(TYPICAL)
1"N.P. WATER LINE DN. TO H.B.
¾"AIR LINE DN TO INFLUENT BM
4" V DN
4" V TR
4" V UP 4" V TO
4" D.L. UP TO R.D.
F.D.'S TYPE 'C'
F.D. TYPE 'C'
F.D. TYPE 'F'
A-134
A-131
A-132
A-135
A-136
A-137
A-139
A-156
A-126
A-125
A-124
A-122
A-120
A-119
A-121
A-118
A-157
A-112
A-117
A-111
A-115
A-114
A-116
A-113
PRESS. REDUCING STA. SEE DETAIL ON DWG. P-6
RECEIVER NO. 1
RECEIVER NO. 2
TRENCH 2
TRENCH 1
PIPING TO RUN ABOVE BOTTOM OF PRECAST CONC. TEES
CONTINUED ON MEZZ. PLAN BELOW
@ ELEV. 387.0' (BY CTR.-4)
W.H. TYPE "A"
FILTER-REGULATOR UNITS W/½" AIR OUTLETS 48" A.F.F.
4" N.P. DN. TO INFLUENT BM
½" N.P. UP TO H.W. TP.
AT ELEV. 389.0
4" N.P. LINES (BY CTR.-1) DN. TO INFLUENT & PUMP BMS
4" W. DN., C.O. AT BASE
2" V UP
½" AIR LINE DN TO PUMP BM.
4" D.L. DN. THRU FL. C.O. AT BASE 4" D.L. UP
AT ELEV. 386.5'
AT ELEV. 389.01
FIN. FL. ELEV. 374.0'
FIN. FL. ELEV. 378.5'
1" UP TO H.B.
1½" I.W. DN FROM EMERGENCY SHOWER CONN. TO F.D. AHEAD OF TRAP SEE DETAIL DWG P-6
UP TO EMERGENCY SHOWER & EYE WASH
4" D.L. DN. C.O. AT BASE
2" V. UP TO 2ND FL.
3/4" A.U.P.
UP TO F.D.
2" N.P. UP TO FR
AT INV. ELEV. 388.33'
AT INV. ELEV. 387.0'
8" SEAL WATER LINES DN. TO FILTRATE PUMPS.
8" SEAL WATER LINES DN TO VACUUM PUMPS.
EMERGENCY SHOWER & EYE WASH (TYPE 'A') BY CTR. 4
AT INV. ELEV. 388.55'
AT ELEV. 389.5'
SERVICE SINK MTD ON 8" HIGH CERAMIC WALL
3" W. DN., 1½" V. UP 1½" U.P. ON DN.
1½" I.W. DN TO FR
1½" UP TO D.D. OUTLET
DROP TO ELEV. 389.15'
PIPING UP FROM CHEM. FEED AREA
FC 30
4" S. OUT. DUCT SLAB 4" V. UP TO CL. SPACE INV. ± 371.5
FD. TYPE 'A'
FD. TYPE 'E'
WASTE LINE FROM PLANTER DRAIN CONTINUED ON EIGHT PLAN DWG.
W.H. TYPE "A" MOUNT 24" ABOVE GRADE (TYP.AS.)
W.H. TYPE "B" MOUNT 24" A.F.F.
1½" W. DN. 1½" V. UP
2" RELIEF VENT UP
12" V. IN 1ST FL. CLG. (COORDINATE W/ELEC & HVAC IN THIS RM.)
ELEC. H.W. HEATER (TYPE B) (SEE SCHEMATIC ON DWG P-6 FOR LOCATION OF HEATER)
IN CLG. SPACE
PLANTER DRAIN "D"
C.W. PIPING TO RISE UP TO LOBBY CLG. SPACE WITHIN 2" CAVITY BETWEEN CONC. BLOCK - SEE DETAIL "A" ON DWG A-12
RUN ABOVE CLG.
5" D.L. UP TO R.D.
4" D.L. ON THRU FL. SLAB PROVIDE C.O. AT BASE COORDINATE W/ELEC.
INV EL 369.25
TO C.B. #12 CONT'D ON SITE PLAN
4" DWV C.I. W/ SOLDERED JTS, HEAT TRACED W/ DRIP PAN
4" D.L. UP TO R.D.
W.H. TYPE 'A'
IN SMT CLG.
IN 1ST FL. CLG.
INV. 372.05
INV. 371.5
TOP 1ST ST. 372.02
2" A.W. DN. FROM LAB SINK & DISHWASHER 2" TH'D 1ST FL. C.O. AT BASE
1½" W. DN. FROM DISHWASHER
1½" W. DN FROM LAB SINK
1½" A.W. UP TO FUME HOOD
ACID WASTE PIPING IN CLG SPACE OF ROOM A-120 TO BE RUN AT 8'-0" ± ABOVE FIN. FL. TO AVOID DUCT WORK
1½" A.W. UP TO LAB SINK
ACID WASTE LINE ABOVE 1ST FL. CLG.
1½" A.W. UP TO LAB SINK & EYE WASH
1½" A.W. DN. THRU 1ST FL. RELIEF VENT OFF TOP OF STACK. C.O. AT BASE OF STACK.
IN CLG. SPACE
1½" A.W. UP TO LAB
1½" A.W. DN. THRU 1ST FL. TO LAB SINK & EYE WASH
INV EL 371.26 IN 1ST FL. CLG.
1½" W. DN., 1½" V. UP, 1½" C.W. DN.
4" S. VENT UP
4" S. VENT UP
4" S. VENT UP

NOTE:
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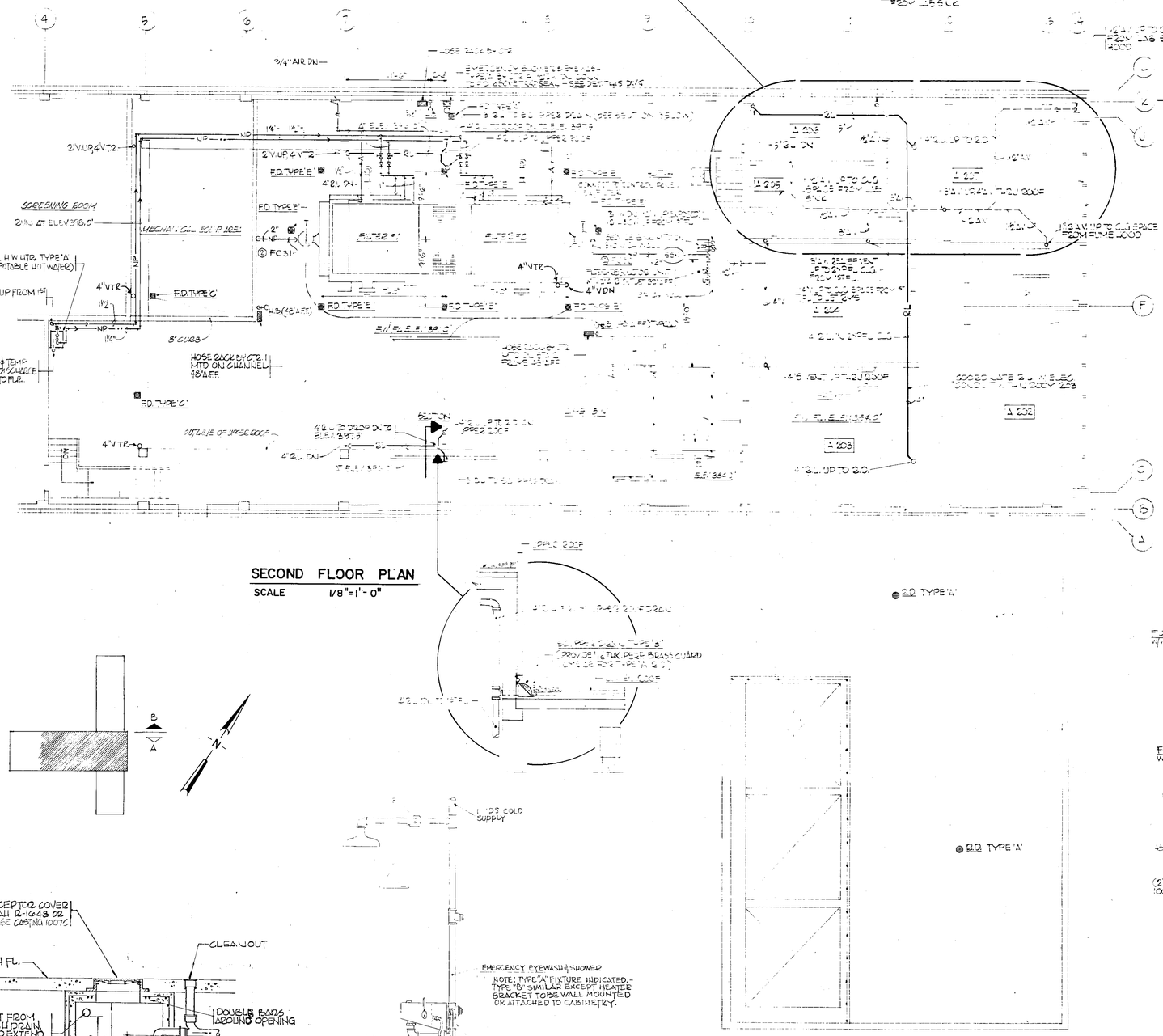
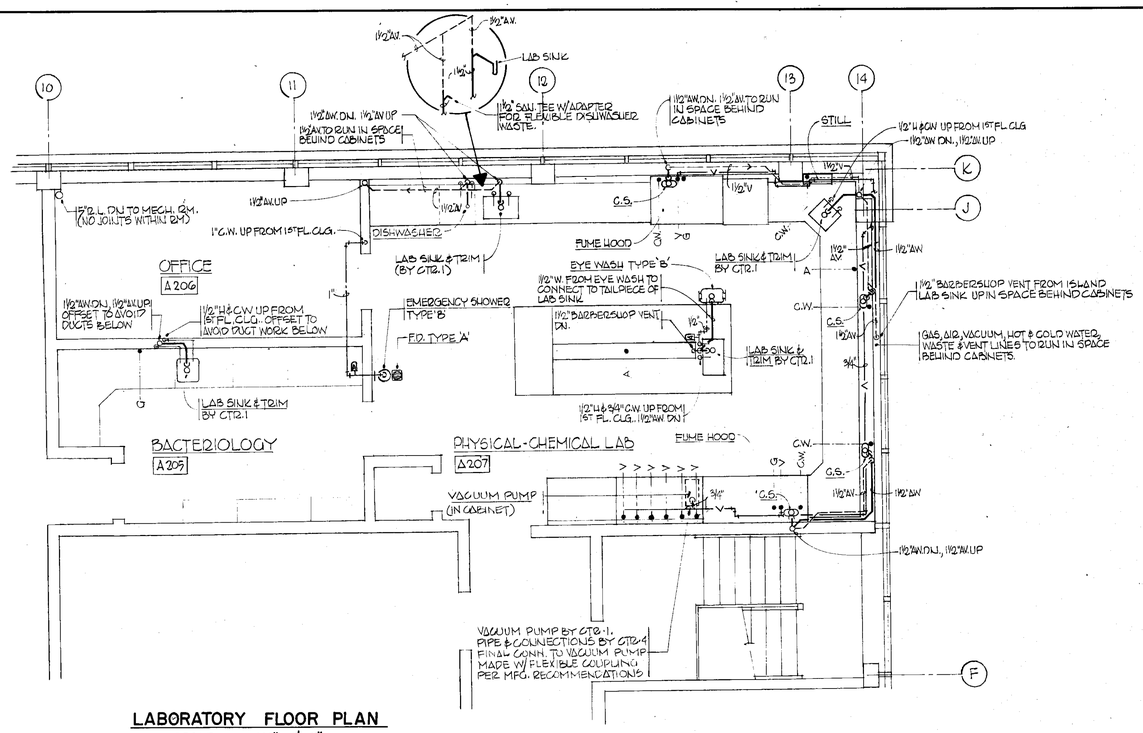
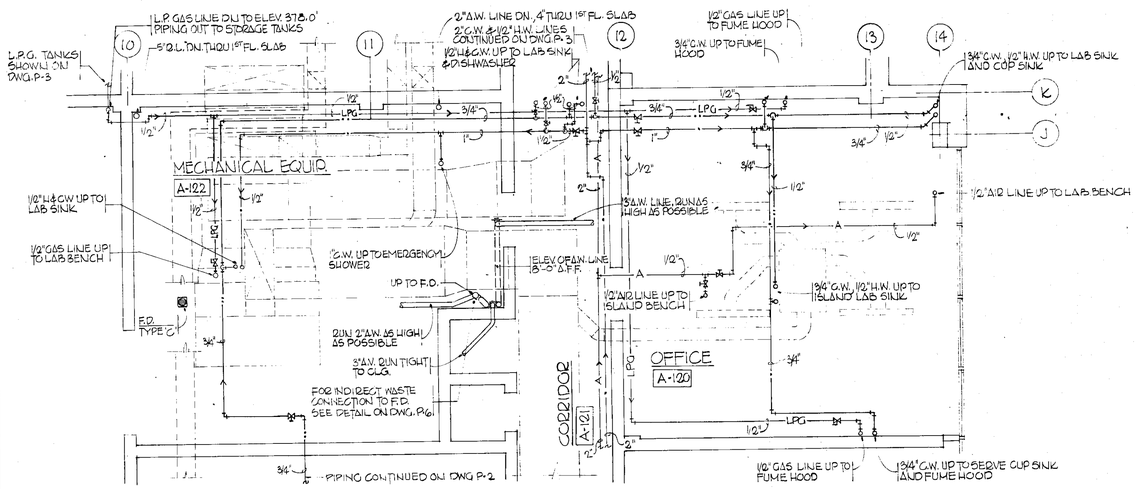

SCREENING ROOM
MECHANICAL ROOM P 102
FILTER #1
FILTER #2
ELEC. H.W. HTR. TYPE 'A' (NON POTABLE HOT WATER)
8' CURB
FD. TYPE 'C'
FD. TYPE 'E'
FD. TYPE 'B'
H.B. (48" A.F.F.)
4" V.T.R.
4" V.D.N.
8" V.T.R.
PRESS. & TEMP. RELIEF DISCHARGE LINE DN. TO FLR.
HOSE BIBB BY CTR. MTD ON CHANNEL 48" A.F.F.
4" SAND INTERCEPTOR BY CTR. (SEE DETAIL ON THIS DWG.)
4" SAND INTERCEPTOR BY CTR. (SEE DETAIL ON THIS DWG.)
FOR EQUIPMENT LAYOUT & PLUMBING REQ'D. REFER TO MECHANICAL DRAWINGS
REFER TO ARCH'L SHEET FOR FLOOR PLAN & DWG. NO.
SECOND FLOOR PLAN
SCALE 1/8"=1'-0"
4" V.T.R.
4" V.D.N.
4" V.T.R.
4" V.T.R.
4" V.T.R

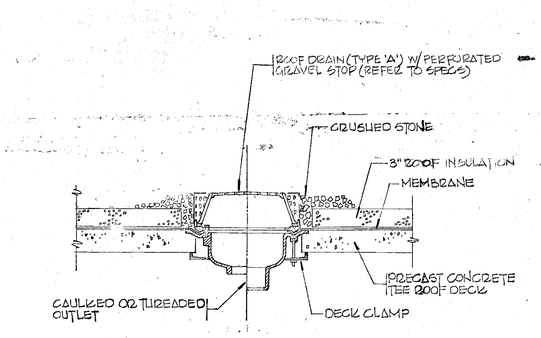


LABORATORY FLOOR PLAN
SCALE 1/4"= 1'-0"

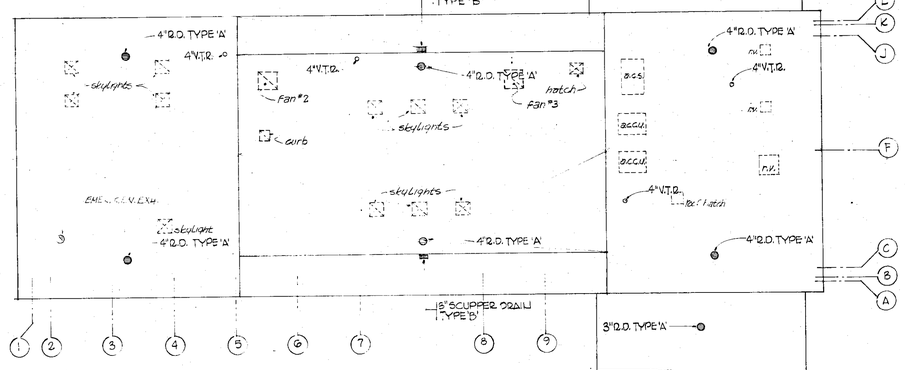


PARTIAL FIRST FLOOR PLAN
SCALE 1/4"= 1'-0"

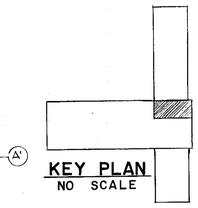
NOTE
ALL PIPING SHOWN ON PARTIAL PLAN ABOVE TO BE RUN EXACTLY AS SHOWN IN ORDER TO AVOID CONFLICT WITH DUCT WORK AND EQUIPMENT



TYPICAL ROOF DRAIN DETAIL
N.T.S.



ROOF PLAN
SCALE 1/16"= 1'-0"



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1/4" = 1'0" 2 0 2 4 6 8 10
1/16" = 1'0" 16 8 0 16 32

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1	FOR APPROVAL DLD	3/31/76	RMB	DLD	SCW	3/31/76

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.C. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING
ROOF PLAN & PARTIAL FLOOR PLANS

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 4 | SHEET P 4

263

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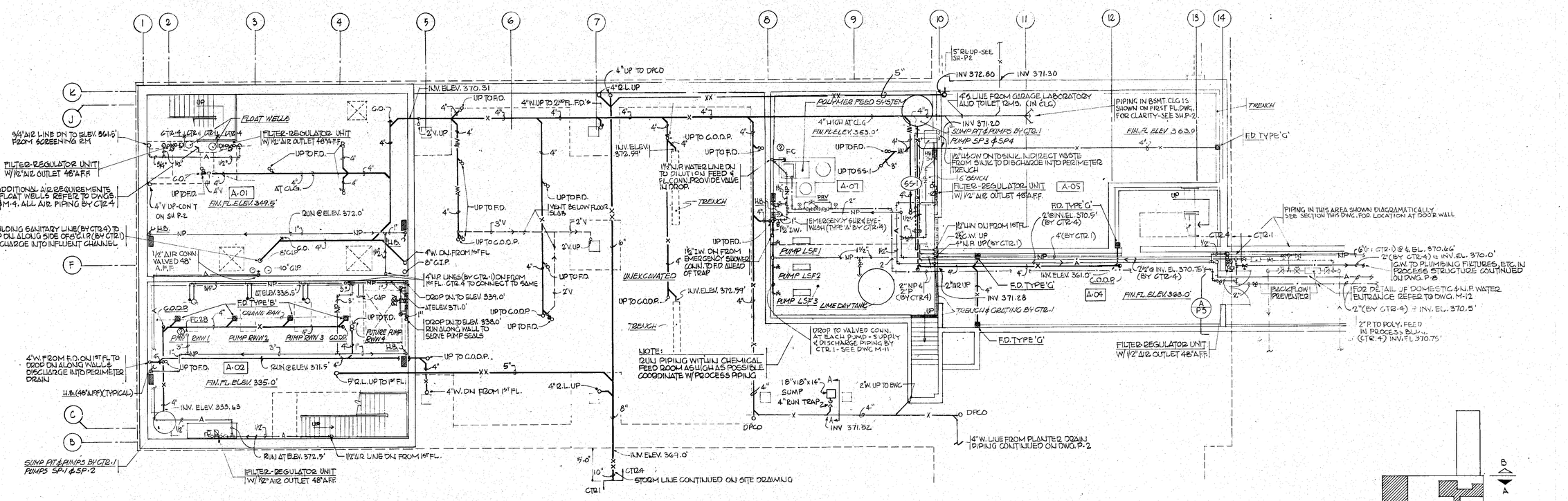
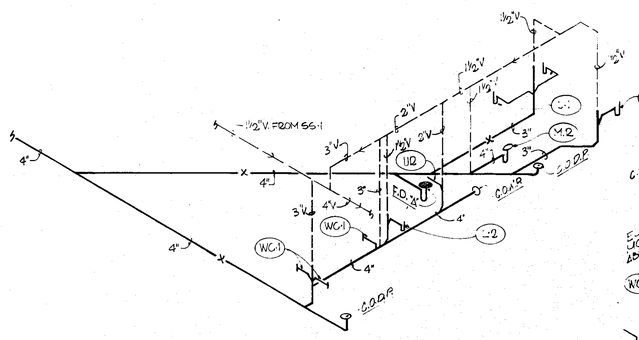
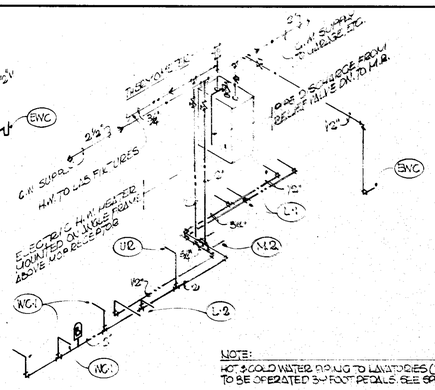

9/4"AIR LINE DN TO ELEV. 361.5' FROM SCREENING BM
FILTER-REGULATOR UNIT W/1/2" AIR OUTLET 48"A.F.F.
FOR ADDITIONAL AIR REQUIREMENTS FOR FLOAT WELLS REFER TO DWGS. M-3 & M-4. ALL AIR PIPING BY CTR.4
4" BUILDING SANITARY LINE (BY CTR.4) TO DROP DN. ALONG SIDE OF S.C.I.P. (BY CTR.1) & DISCHARGE INTO INFLUENT CHANNEL
SUMP PIT & PUMPS BY CTR.1 PUMPS SP.1 & SP.2
4"W. FROM F.D. ON 1ST FL. TO DROP DN. ALONG WALL & DISCHARGE INTO PERIMETER DRAIN
H.B. (48"A.F.F.) (TYPICAL)
FLOAT WELLS
FIN. FL. ELEV. 349.5'
FIN. FL. ELEV. 335.0'
CRANE BAY
PUMP BAY 1
PUMP BAY 2
PUMP BAY 3
PUMP BAY 4
FUTURE PUMP BAY 4
INV. ELEV. 370.31
INV. ELEV. 372.59'
INV. ELEV. 372.59'
INV. ELEV. 369.0'
INV. ELEV. 361.0'
INV. ELEV. 359.63
INV. ELEV. 371.0'
INV. ELEV. 339.0'
INV. ELEV. 338.0'
RUN @ ELEV. 372.0'
RUN @ ELEV. 371.5'
RUN @ ELEV. 372.5'
1/2" AIR LINE DN FROM 1ST FL.
4"W. DN FROM 1ST FL.
4"W. DN. FROM 1ST FL.
4"W. UP TO 2ND FL. F.D.'S
4"W. UP TO F.D.
4"G.I.P.
4"N.P. LINES (BY CTR.1) DN. FROM 1ST FL. CTR.4 TO CONNECT TO SAME
DROP DN. TO ELEV. 339.0'
DROP DN. TO ELEV. 338.0' RUN ALONG WALL TO SERVE PUMP SEALS
4"W. DN. FROM 1ST FL.
4"W. DN. FROM 1ST FL.
4"W. DN. FROM 1ST FL.



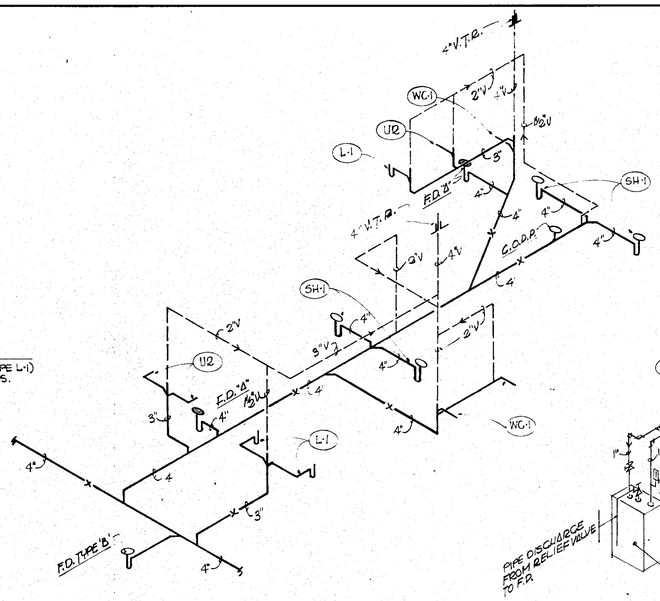
SOIL WASTE & VENT PIPING



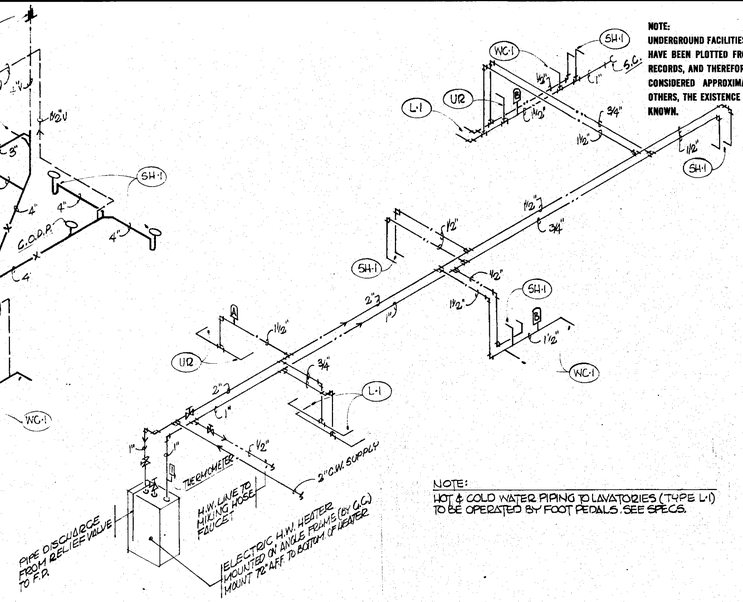
HOT & COLD WATER SUPPLY

NOTE:
HOT & COLD WATER PIPING TO LAVATORIES (TYPE L-1) TO BE OPERATED BY FOOT PEDALS. SEE SPECS.

PIPING SCHEMATIC "B"



SOIL WASTE & VENT PIPING



HOT & COLD WATER SUPPLY

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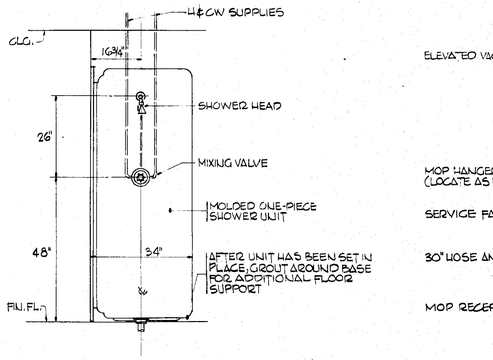
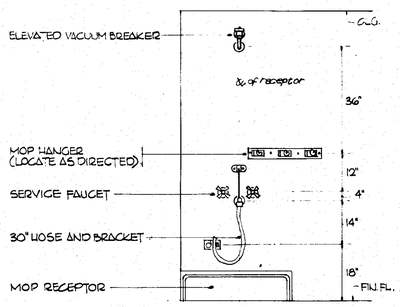
NOTE:
HOT & COLD WATER PIPING TO LAVATORIES (TYPE L-1) TO BE OPERATED BY FOOT PEDALS. SEE SPECS.

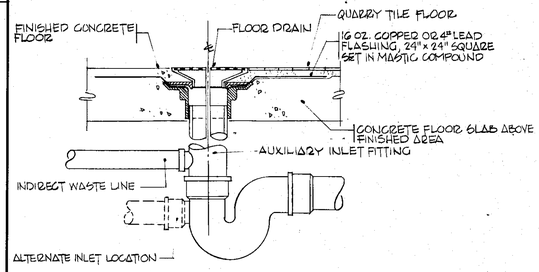
PIPING SCHEMATIC "A"



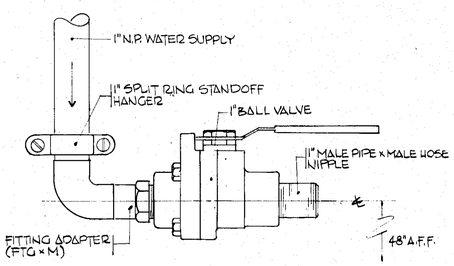
SHOWER (SH-1) ELEVATION



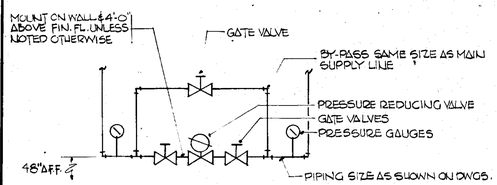
MOP RECEPTER ELEVATION



INDIRECT WASTE DETAIL

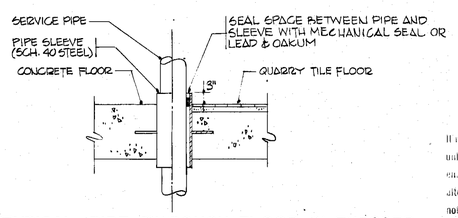


HOSE BIB INSTALLATION DETAIL



NON-POTABLE WATER PRESSURE REDUCING STATION DETAIL

TYPICAL FOR NON-POTABLE WATER LINES SERVING ONE OR MORE PUMP SEAL WATER OR FLUSHING RING CONNECTIONS.



TYPICAL PIPE THROUGH FLOOR IN EXPOSED AREA.

FIXTURE CONNECTION SCHEDULE

DESIG.	FIXTURE	WASTE	VENT	COLD	HOT	REMARKS
WC-1	WATER CLOSET	4"	2"	1"	——	
WC-2	WATER CLOSET	4"	2"	1"	——	
L-1	LAVATORY	1½"	1¼"	½"	½"	W/PEDAL VALVES
L-2	LAVATORY	1½"	1¼"	½"	½"	COUNTER TOP MOUNTED, WRIST BLADE HANDLES
SH-1	SHOWER	3"	1½"	½"	½"	
MJ2	MOP RECEPTER	3"	1½"	½"	½"	
SS-1	SERVICE SINK	3"	1½"	½"	½"	
EWC	ELEC. WATER COOLER	½"	1¼"	½"	——	
K-1	KITCHENETTE	1½"	1½"	½"	½"	
U2	URINAL	2"	1½"	¾"	——	
LS	LAB. SINK (BY CTR.1)	1½"	1½"	½"	½"	CTR. 4 TO PROVIDE TRAPS, TAILPIECE & SUPPLIES
CS	CUP SINK (BY CTR.1)	½"	——	½"	——	" " " "
	STILL (BY CTR.1)	——	——	½"	——	WASTE TO DISCHARGE INTO LAB SINK
	DISHWASHER (BY CTR.1)	——	——	——	½"	PROVIDE DISHWASHER TAILPIECE IN ADJACENT LAB SINK
	SLUDGE SAMPLING SINK	3"	——	——	——	SINK PROVIDED BY CTR.1

SYMBOLS and ABBREVIATIONS

—X—	SANITARY BELOW GROUND
—XX—	STORM BELOW GROUND
——	SANITARY ABOVE GROUND
—2L—	ROOF LEADER (ABOVE GROUND)
—•••—	DOMESTIC HOT WATER
—•—	DOMESTIC COLD WATER (POTABLE)
—NP—	NON-POTABLE WATER
—A—	AIR
—G—	GAS
—V—	VACUUM
– – – –	SANITARY VENT
—AW—	ACID WASTE
– –AV– –	ACID VENT
—C.H.B.	HOSE BIBB
W.H.D.	WALL HYDRANT (FROST PROOF)
	UNION
A	WATER HAMMER ARRESTER W/P.D.I. SYMBOL
	GATE VALVE
	CHECK VALVE
	GAS COCK
	PRESSURE-TEMPERATURE RELIEF VALVE
	RISER UP
G	RISER DOWN
	BRANCH DOWN
	BRANCH UP
	CLEANOUT IN LINE
	HOSE BACK BY CTR.1 (MOUNT AS NOTED ON DWGS. 42 AFF)
	FLOOR DRAIN
	ROOF DRAIN
—IW—	INDIRECT WASTE
—LPG—	LIQUIFIED PETROLEUM GAS
	PRESSURE REDUCING VALVE
	PRESSURE GAUGE
	PUMP SEAL WATER CONNECTION (PIPING TO SOLENOID BY CTR.4 FINAL CONNECTION TO PUMP BY CTR.1)
	FLUSHING RING WATER CONNECTION (" " " " " " " " " " " ")

S	SOIL
W	WASTE
SAN	SANITARY
V	VENT
AW	ACID WASTE
AV	ACID VENT
VTR	VENT THRU ROOF
NP	NON-POTABLE
HW	HOT WATER
CW	COLD WATER
G	GAS
A	AIR
V	VACUUM (IN LAB AREA ONLY)
FD	FLOOR DRAIN
RD	ROOF DRAIN
RL	ROOF LEADER
CODP	CLEANOUT DECK PLATE
CO	CLEANOUT
COWP	CLEANOUT WALL PLATE
I.W.	INDIRECT WASTE
PRV	PRESSURE REDUCING VALVE STATION
	BALL VALVE
	FILTER-PRESSURE REGULATOR (AIR) UNIT

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

NO SCALE

It is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item in any manner. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his name and the date of such alteration, and a specific description of the alteration.

LICENSED PROFESSIONAL ENGINEER ROBERT J. MILLER NO. 34074 OF THE STATE OF NEW YORK

MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER STERLING G. BRITAIN 31810 OF THE STATE OF NEW YORK

3	FOR RECORD				RJM	6/83	
	ZAK	6/83	RAK				
2	FOR CONSTRUCTION				SAB	2/24/78	
	DLD	2/24/78	RMB	DLD			
1	FOR APPROVALS				SG.B	3/31/76	
	DLD	3/31/76	RMB	DLD			
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S.G. Britain

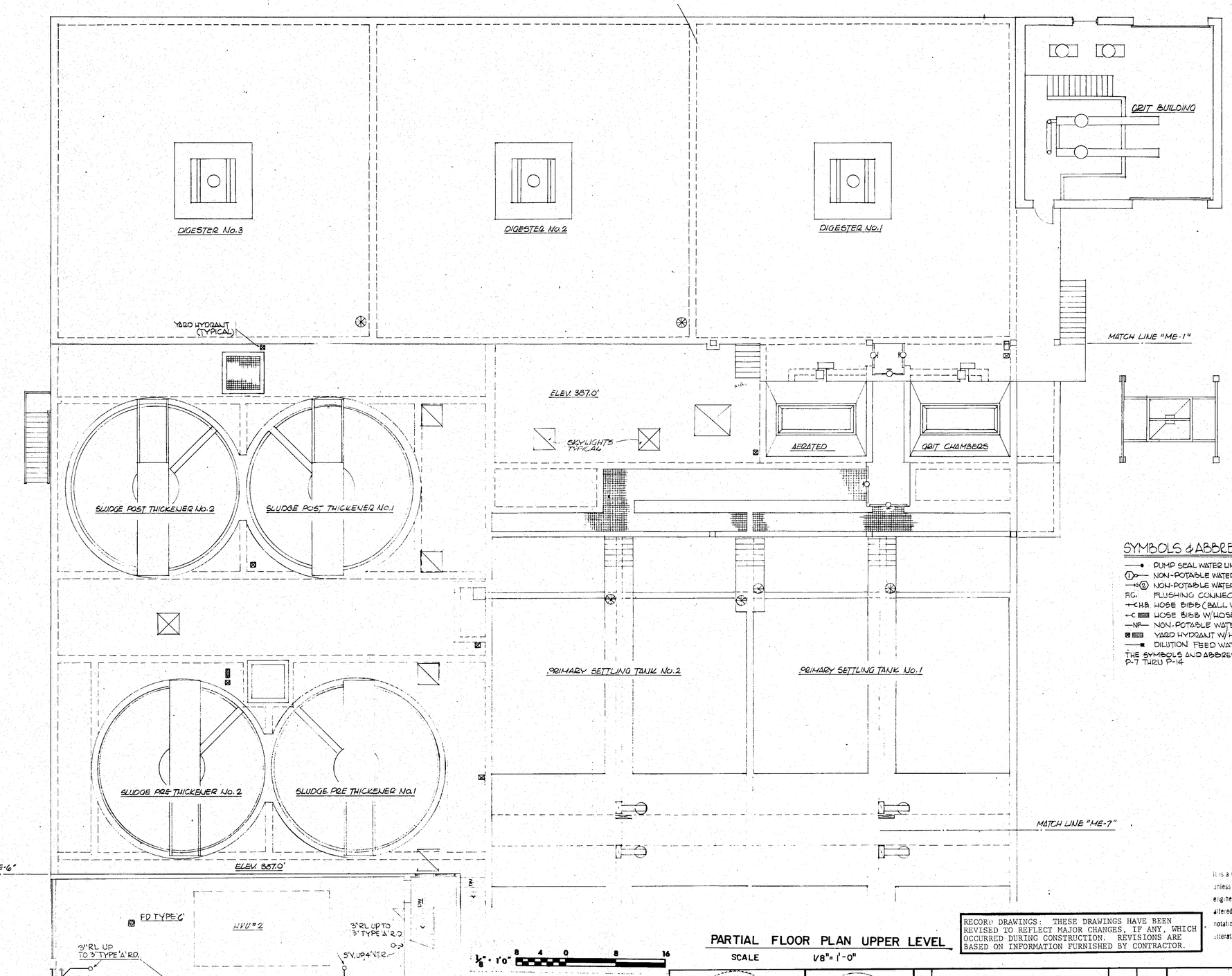
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
CONTROL BUILDING & PROCESS STRUCTURE
PLUMBING DETAILS & SCHEDULES

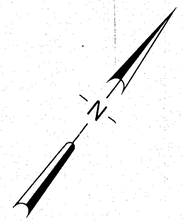
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 4 | SHEET P 6

245

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

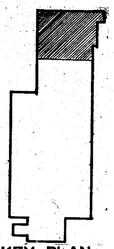




SYMBOLS & ABBREVIATIONS (ADDITIONAL TO MAIN LIST)

- DUMP SEAL WATER LINE
- (1) NON-POTABLE WATER LINE UP TO YARD HYDRANT ON ROOF
- (2) NON-POTABLE WATER LINE DN. TO FLUSHING CONN. VALVE (BY CTR-1) MTD 48" AFF.
- F.C. FLUSHING CONNECTION
- C.H.B. HOSE BIBB (BALL VALVE - SEE DETAIL ON DWG P-6) (TYPICAL)
- C HOSE BIBB W/HOSE RACK - HOSE RACK MTD. 48" A.F.F. (HOSE RACK BY CTR-1)
- NP NON-POTABLE WATER LINE
- YARD HYDRANT W/HOSE RACK - LOCATED ON ROOF (BY CTR-1)
- DILUTION FEED WATER LINE

THE SYMBOLS AND ABBREVIATIONS ARE TYPICAL FOR THE FOLLOWING DWGS. P-7 THRU P-14



KEY PLAN

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PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8" = 1'-0"

1/8" = 1'-0" 8 4 0 8 16

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		RJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	S.G.B	2/24/78
1	PRELIMINARY DLD	8/31/76	RMB	DLD	S.G.B	8/31/76

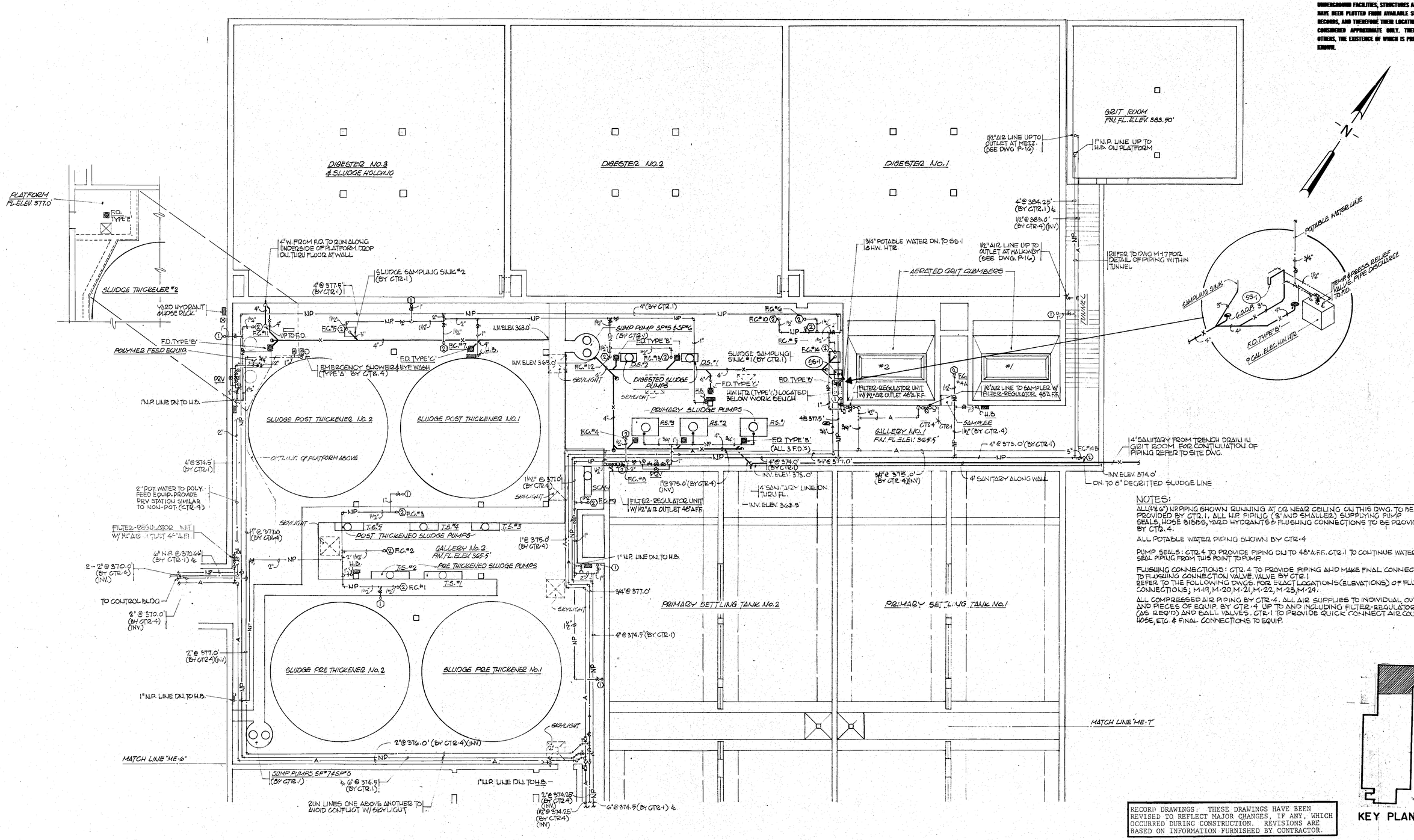
PROJECT SUPERVISOR Jack Swanson APPROVED S.G. Bisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT FACILITIES, DIGESTERS, THICKENERS & PRIMARY SETTLING TANKS - UPPER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 7

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8"= 1'-0"

1/8" = 1'-0" 8 4 0 8 16

NOTES:

ALL (3/4" & 1") W.P. PIPING SHOWN RUNNING AT OR NEAR CEILING ON THIS DWG. TO BE PROVIDED BY CTR. 1. ALL W.P. PIPING (3" AND SMALLER) SUPPLYING PUMP SEALS, HOSE BIBBS, YARD HYDRANTS & FLUSHING CONNECTIONS TO BE PROVIDED BY CTR. 4.

ALL POTABLE WATER PIPING SHOWN BY CTR. 4

PUMP SEALS: CTR. 4 TO PROVIDE PIPING DN. TO 48" A.F.F. CTR. 1 TO CONTINUE WATER SEAL PIPING FROM THIS POINT TO PUMP.

FLUSHING CONNECTIONS: CTR. 4 TO PROVIDE PIPING AND MAKE FINAL CONNECTION TO FLUSHING CONNECTION VALVE. VALVE BY CTR. 1 REFER TO THE FOLLOWING DWGS. FOR EXACT LOCATIONS (ELEVATIONS) OF FLUSHING CONNECTIONS; M-19, M-20, M-21, M-22, M-23, M-24.

ALL COMPRESSED AIR PIPING BY CTR. 4. ALL AIR SUPPLIES TO INDIVIDUAL OUTLETS AND PIECES OF EQUIP. BY CTR. 4 UP TO AND INCLUDING FILTER-REGULATOR UNITS (AS REQ'D) AND BALL VALVES. CTR. 1 TO PROVIDE QUICK CONNECT AIR COUPLINGS, HOSE, ETC. & FINAL CONNECTIONS TO EQUIP.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

KEY PLAN

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

NO.						
3	FOR RECORD				RJM	6/83
	RAK	6/83	RAK			
2	FOR CONSTRUCTION				SGB	2/24/78
	DLD	2/24/78	RMB	DLD		
1	FOR [illegible]				SGB	8/31/76
	DLD	8/31/76	RMB	DLD		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: [illegible] APPROVED: S. G. Brustin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT FACILITIES, DIGESTERS, THICKENERS & PRIMARY SETTLING TANKS - LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 8

247

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

MATCH LINE "ME-6"

SEE DWG P-7 FOR MECH. 2M. FL. PLAN

MATCH LINE "ME-7"

LIQUID OXYGEN STORAGE TANK

R.D. TYPE 'A'

OXYGEN GENERATOR ROOM
ELEV. 392.67

GALLERY NO. 3
ELEV. 387.0'

PRIMARY SETTLING TANK NO. 2

PRIMARY SETTLING TANK NO. 1

R.D. TYPE 'A'

SKYLIGHT (TYPICAL)

4" V.T.R.

YARD HYDRANT & HOSE RACK

MATCH LINE "ME-12

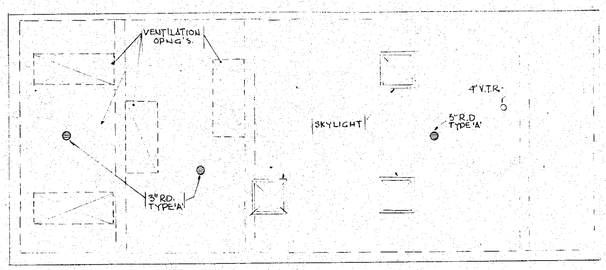
2ND STAGE AERATION

1ST STAGE AERATION

MATCH LINE "ME-12

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"= 1'-0"



MECHANICAL ROOM - ROOF PLAN

SCALE: 1/8" = 1'-0"

1/8" = 1'0" 8 4 0 8 16

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KEY PLAN

LICENSED PROFESSIONAL ENGINEER ROBERT J. MILLER

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER STERLING G. BRITTIN 31810 AUTHENTICATION OF THE STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD				RJM	6/83
	RAK	6/83	RAK			
2	FOR CONSTRUCTION				SGB	2/24/78
	DLD	2/24/78	RMB	DLD		
1	FOR APPROVAL				SGB	3/31/76
	DLD	3/31/76	RMB	DLD		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S. G. Brittin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GENERATION AND
PRIMARY SETTLING TANKS UPPER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 4 | SHEET P 9

NOTE:
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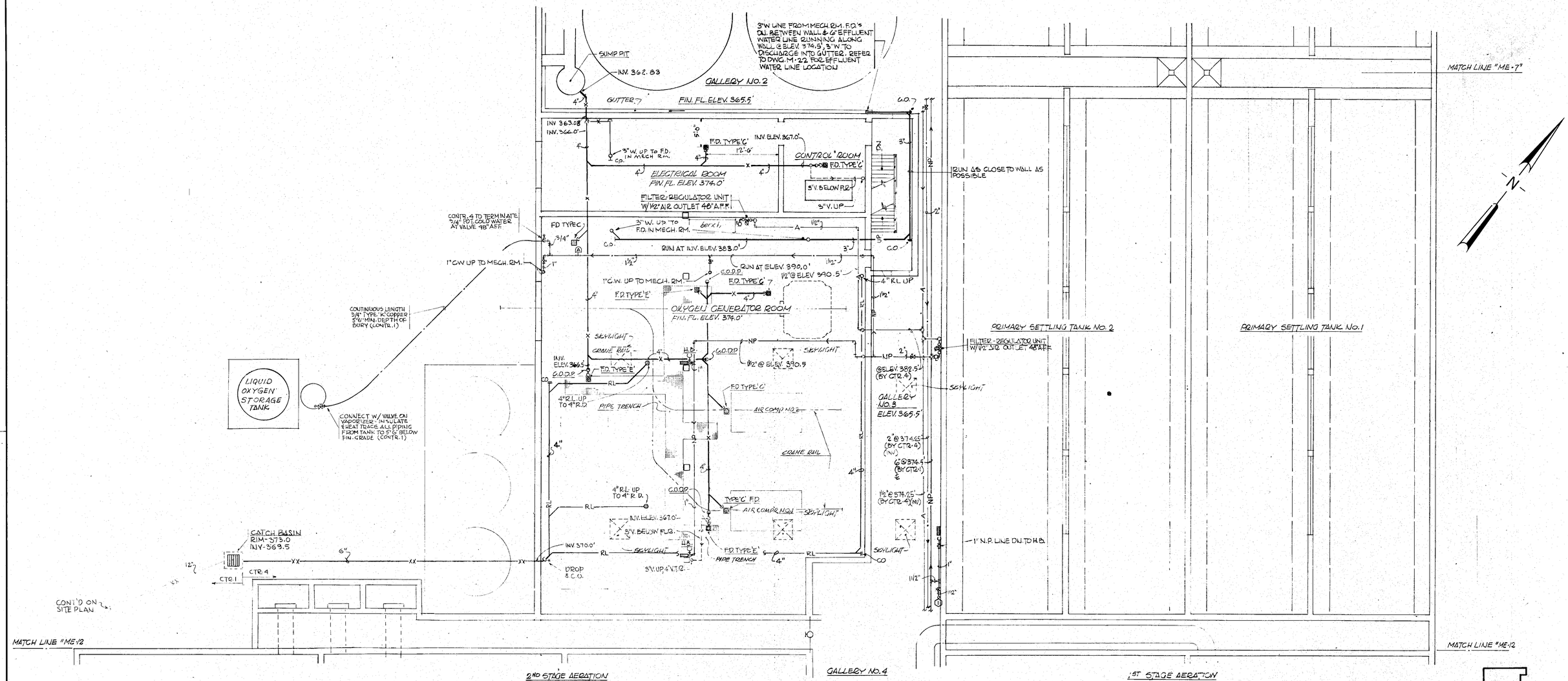

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8"= 1'-0"

1/8" - 1'0" 8 4 0 8 16

NOTES:

ALL (G#) N.P. PIPING SHOWN ON THIS DRAWING TO BE PROVIDED BY CTR. 1
ALL N.P. PIPING (3" AND SMALLER) SUPPLYING PUMP SEALS, HOSE BIBBS, YARD HYDRANTS & FLUSHING CONNECTIONS TO BE PROVIDED BY CTR. 4
ALL POTABLE WATER PIPING SHOWN TO BE BY CTR. 4
COORDINATE WASTE PIPING BELOW FLOOR SLAB WITH ELECTRICAL CONDUITS REFER TO DWGS. E-25, E-26 & E-28 FOR CONDUIT LOCATIONS
ALL COMPRESSED AIR PIPING BY CTR. 4. ALL AIR SUPPLIES TO INDIVIDUAL OUTLETS BY CTR. 4 UP TO & INCLUDING FILTER REGULATOR UNITS AND BALL VALVES. CTR. 1 TO PROVIDE QUICK CONNECT AIR COUPLINGS, HOSE, ETC.

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

KEY PLAN

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MILLER - SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

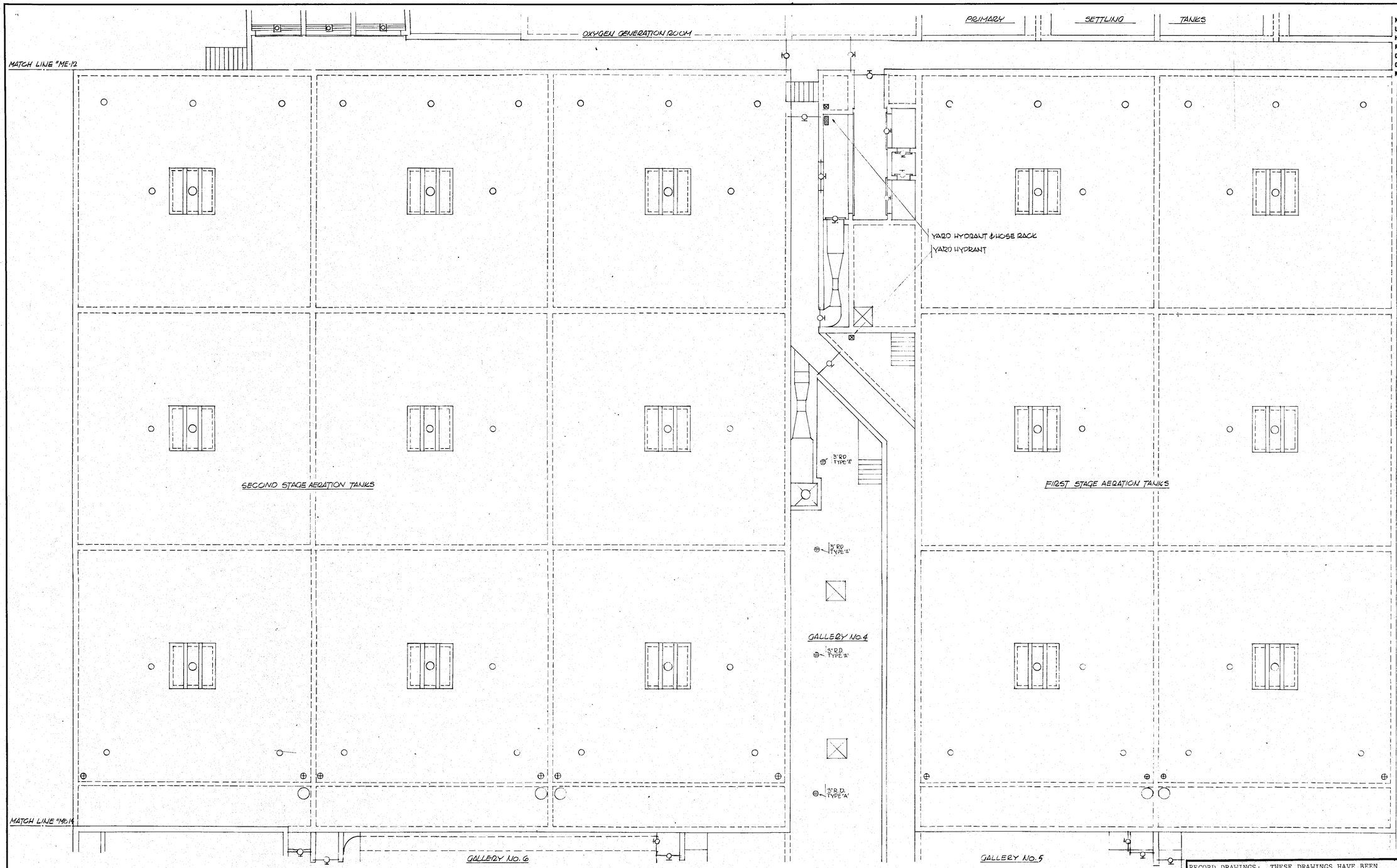
FIGURE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		RJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SGB	2/24/78
1	FOR APPROVAL DLD	3/3/76	JVS	DLD	SGB	3/31/76

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Butler

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
OXYGEN GENERATION AND PRIMARY SETTLING TANKS LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 10



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PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"=1'-0"

1/8" = 1'0" 8 4 0 8 16

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KEY PLAN

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

FIGURE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		EJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SGB	2/24/78
1	[illegible]	3/31/76	[illegible]	[illegible]	SGB	3/31/76

PROJECT SUPERVISOR Joel Swanson APPROVED S.G. Brown

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
FIRST AND SECOND STAGE
AERATION UPPER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 11

MATCH LINE "M6-12

OXYGEN GENERATOR ROOM

PRIMARY SETTLING TANKS

SECOND STAGE AERATION TANKS

FIRST STAGE AERATION TANKS

MATCH LINE "M6-14

EFFLUENT CHANNEL

GALLERY NO. 6

GALLERY NO. 5

FIRST STAGE AERATION

1" U.P. LINE ON TO H.B., HOSE BIBB & HOSE RACK TO BE MOUNTED 48" A.F.F. ON PIPE SUPPORTS. (TYPICAL)

H.B.

FILTER REGULATOR UNIT W/ 1/2" AIR OUTLET 48" A.F.F.

GALLERY NO. 4
FIN. FL. ELEV. 365.5'

6"@ 374.5' &

2"@ 374.25' (INV)

1½"@ 374.25' (INV)

3" TAP

1½"

2"

1"

6"@ 371.17' (BY CTR-1) &

2"@ 370.92' (BY CTR 4) (INV)

1½"@ 370.92' (BY CTR 4) (INV)

UP TO R.D. INV. ELL 374.0

3"

1" N.P. LINE ON TO H.B.

3" UP TO R.D.

1½"@ 370.92' (BY CTR 4) (INV)

4" UP TO R.D.

INV. EL. 373.3

FIN. FL. ELEV. 360.75'

NOTE:
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N

KEY PLAN

NOTES:

ALL (6"Ø) N.P. PIPING SHOWN ON THIS DRAWING TO BE PROVIDED BY CTR.1
ALL N.P. PIPING (3" AND SMALLER) SUPPLYING PUMP SEALS, HOSE BIBBS, YARD HYDRANTS & FLUSHING CONNECTIONS TO B.E. PROVIDED BY CTR.4
ALL POTABLE WATER PIPING SHOWN TO BE BY CTR.4
ALL COMPRESSED AIR PIPING BY CTR.4. ALL AIR SUPPLIES TO INDIVIDUAL OUTLETS BY CTR.4 UP TO & INCLUDING FILTER-REGULATOR UNITS & BALL VALVE, CTR.1 TO PROVIDE QUICK CONNECT ½2 COUPLINGS, HOSE, ETC.

PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8" = 1'-0"

1/8" - 1'0" 8 4 0 8 16

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MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD				RJM	6/88
	RAL	6/83	RAIC			
2	FOR CONSTRUCTION				SGB	2/29/78
	DLD	2/24/78	RMB	DLD		
1	POST CONTRACT 1 WORK				SGB	3/31/76
	DLD	3/31/76	DLD	DLD		

PROJECT SUPERVISOR: Joel Swanson
APPROVED: S. G. Brisbin

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
FIRST AND SECOND STAGE
AERATION LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 4 | SHEET P 12

2ND STAGE AERATION TANKS

1ST STAGE AERATION TANKS

GALLERY NO. 6

GALLERY NO. 5

3" R.D. TYPE 'A' 3"

R.D. TYPE 'A'

YARD HYDRANT & HOSE RACK (TYPICAL)

SECOND STAGE SETTLING TANKS

FIRST STAGE SETTLING TANKS

EFFLUENT CHANNEL

EFFLUENT CHANNEL

LINE B.V.E.

FOR DETAILS OF CHLORINE BLDG. SEE DWG P-7

CHLORINE ROOM

CHLORINE STORAGE ROOM

CHLORINE CONTACT TANK NO. 1

CHLORINE CONTACT TANK NO. 2

NOTE:
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N

PARTIAL FLOOR PLAN UPPER LEVEL

SCALE 1/8"= 1'-0"

RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.

1/8" = 1'0" 8 4 0 8 16

KEY PLAN

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK 6/83		RAK		RJM	6/83
2	FOR CONSTRUCTION DLL 8/24/79		RMB	DLD	SCB	2/29/78
1	F... RJS	3/31/76	RMB	DLD	SCB	3/31/76

PROJECT SUPERVISOR Joel Swanson APPROVED S.C. Bigelow

QNONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY 5, 6 & 7, 1ST AND 2ND STAGE
SETTLING TANKS CHLORINATION - UPPER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 13

272

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

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PARTIAL FLOOR PLAN LOWER LEVEL

SCALE 1/8" = 1'-0"

NOTES:

ALL (O & P) N.P. PIPING SHOWN ON THIS DRAWING TO BE PROVIDED BY CTR.1
ALL N.P. PIPING (3" AND SMALLER) SUPPLIED WITH JOINT SEALS, HOSE BIBBS, VACUUM BREAKERS & FLUSHING CONNECTIONS TO BE PROVIDED BY CTR.4

ALL POTABLE WATER PIPING SHOWN TO BE BY CTR.4
PUMP SEALS: CTR.4 TO PROVIDE PIPING FROM TAP INTO 4" A.F.F. CTR.1 TO CONTINUE WATER SEAL PIPING FROM THIS POINT TO PUMP

FLUSHING CONNECTIONS: CTR.4 TO PROVIDE PIPING AND MAKE FINAL CONNECTION TO FLUSHING CONNECTION VALVES (VALVES BY CTR.1 REFER TO THE FOLLOWING DWGS FOR PLAN AND ADDITIONAL ELEVATIONS) OF FLUSHING CONNECTIONS: M-45, M-47, M-48, M-49, M-50, M-51, M-52, M-53, M-54, M-55, M-56, M-57 & M-65

ALL COMPRESSED AIR PIPING BY CTR.4. ALL AIR SUPPLIES TO INDIVIDUAL OUTLETS AND PIECES OF EQUIP. BY CTR.4 UP TO AND INCLUDING FILTER-REGULATOR UNITS (AS REQ'D) AND BALL VALVES. CTR.1 TO PROVIDE QUICK CONNECT AIR COUPLINGS, HOSE, ETC. & FINAL CONNECTIONS TO EQUIP.

1/4" = 1'-0" 2 0 2 4 6 8 10

1/8" = 1'-0" 8 4 0 8 16

TOILET ROOM GALLERY NO. 8

SCALE 1/4" = 1'-0"

SEWAGE PUMP PIPING SCHEMATIC

NO SCALE

KEY PLAN

MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		RJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SAB	2/24/78
1	FOR [illegible] DLD	3/31/76	RMB	DLD	SAB	3/31/76

PROJECT SUPERVISOR: Joel Lawrence — APPROVED: S.A. Bistrian

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GALLERY 5, 6 & 7, 1ST & 2ND STAGE SETTLING TANKS CHLORINATION - LOWER PLAN

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

JOB NO. 577 | CONTRACT NO. 4 | SHEET P 14

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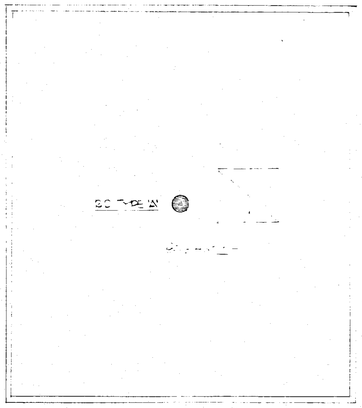
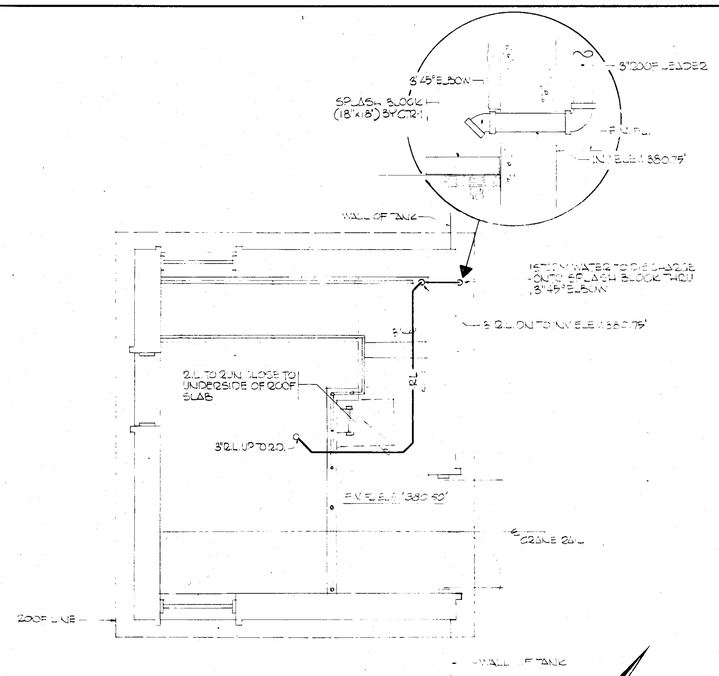
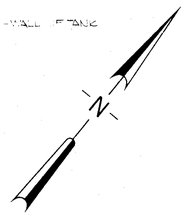


ROOF PLAN
SCALE 1/4"= 1'-0"



UPPER FLOOR PLAN
SCALE 1/4"= 1'-0"



NOTE:
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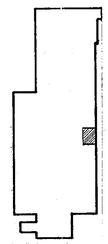
RECORD DRAWINGS: THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED ON INFORMATION FURNISHED BY CONTRACTOR.



KEY PLAN

1/4" = 1'-0" 2 0 2 4 6 8 10

...is a violation of the New York State Education Law for any person, unless he is acting under the direction of a licensed professional engineer, to alter an item on this drawing. If an item is altered, the altering engineer shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

REGISTERED PROFESSIONAL ENGINEER ROBERT J. MILLER NO. 31810 STATE OF NEW YORK

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

LICENSED PROFESSIONAL ENGINEER STERLING G. BRISBIN 31810 STATE OF NEW YORK

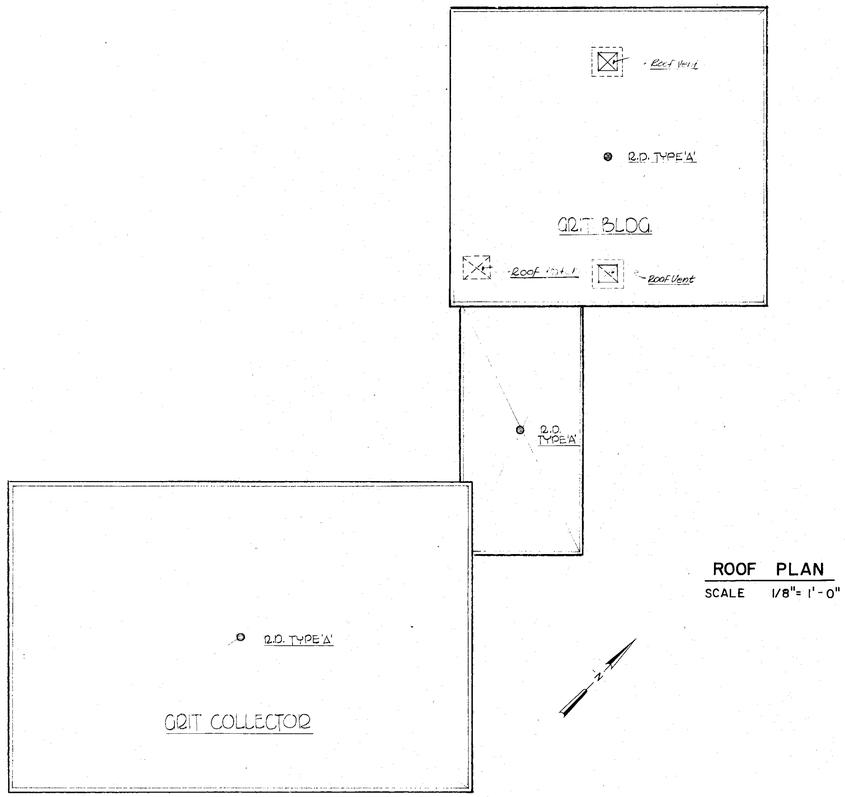
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		RJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SGB	2/24/78
1	FOR A... DLD	3/31/76	RMB	DLD	SGB	3/31/76

PROJECT SUPERVISOR Joel Kuroman APPROVED S.G. Brisbin

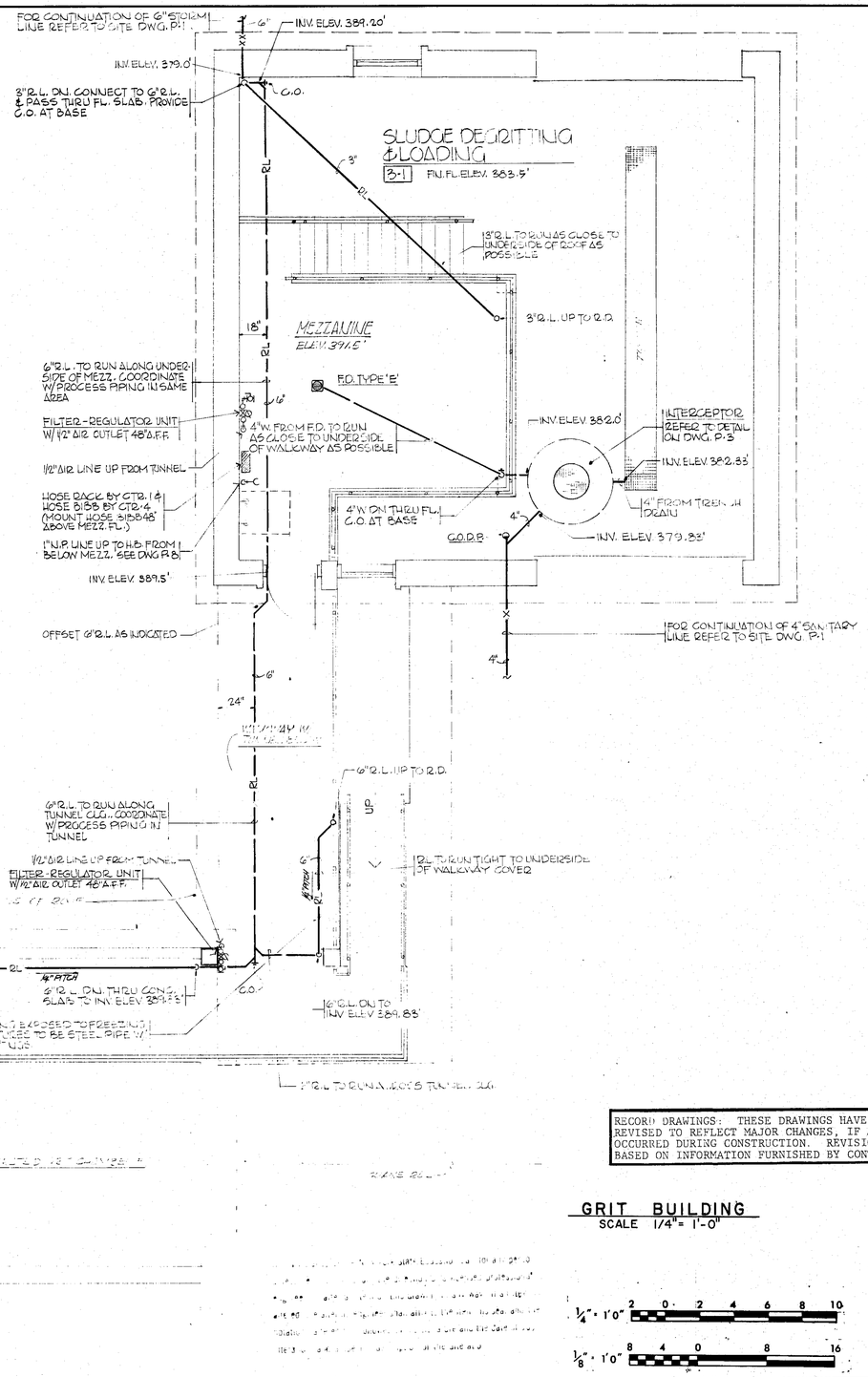
ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
ENTRANCE STRUCTURE - GALLERY NO. 5

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 15



ROOF PLAN
SCALE 1/8"= 1'-0"



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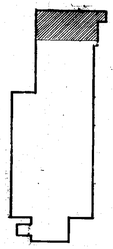
GRIT BUILDING
SCALE 1/4"= 1'-0"



KEY PLAN

1/4" = 1'0" 2 0 2 4 6 8 10

1/8" = 1'0" 8 4 0 8 16

MILLER · SIZING, P.C.
consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	FOR RECORD RAK	6/83	RAK		RJM	6/83
2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SCL	2/24/78
1	FP DLD	8/31/76	" "	DLD	SCL	8/31/76

PROJECT SUPERVISOR Joel Stevens
APPROVED S.C. Buston

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
GRIT BUILDING
Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

JOB NO. 577 CONTRACT NO. 4 SHEET P 16

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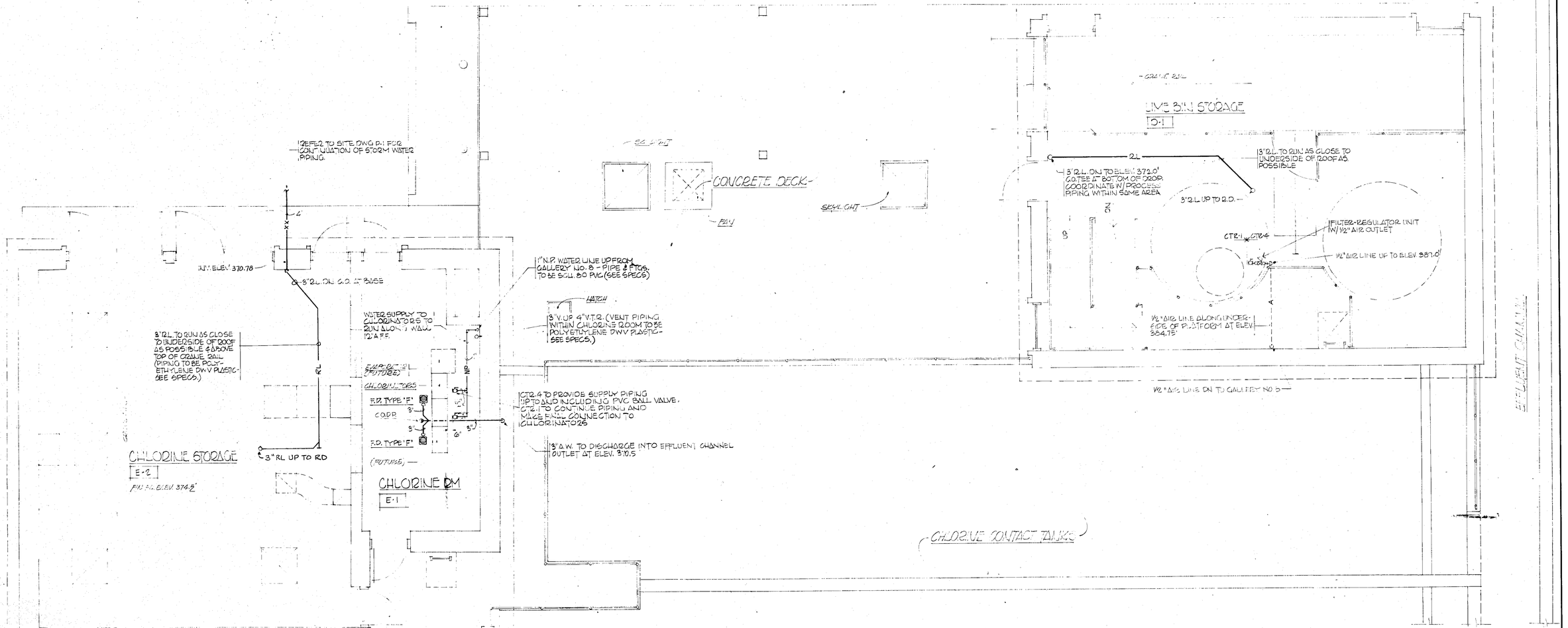
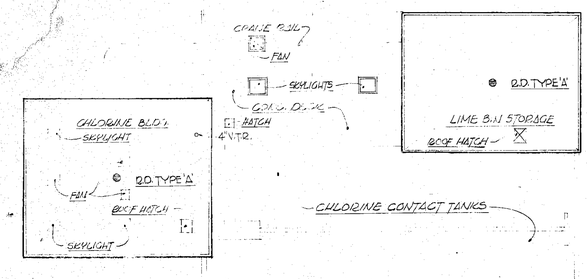


CHLORINE BUILDING & LIME BIN STORAGE
SCALE 1/4" = 1'-0"



ROOF PLAN
SCALE 1/16"= 1'-0"

1/4" = 1'-0" 2 0 2 4 6 8 10

1/16" 1'-0" 16 8 0 16 32

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KEY PLAN

REGISTERED PROFESSIONAL ENGINEER — ROBERT J. MILLER — 21810 — STATE OF NEW YORK

MILLER · SIZING, P.C. consulting engineers
499 SO. WARREN STREET
SYRACUSE, NEW YORK 13202

REGISTERED PROFESSIONAL ENGINEER — STERLING G. BRISTOL — 21810 — STATE OF NEW YORK

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
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2	FOR CONSTRUCTION DLD	2/24/78	RMB	DLD	SGB	2/24/78
1	FOR APPROVAL DLD	8/31/76	RMB	DLD	SGB	8/31/76

PROJECT SUPERVISOR: Joel Swanson — APPROVED: S.G. Bristol

ONONDAGA COUNTY, NEW YORK
DEPARTMENT OF DRAINAGE & SANITATION
BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
PROCESS STRUCTURE
CHLORINE BUILDING & LIME BIN STORAGE

Stearns & Wheler
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK — NEW CANAAN, CONNECTICUT

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