COUNTY OF ONONDAGA, NEW YORK

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

BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT C 36-762

CONTRACT DRAWINGS WASTEWATER TREATMENT FACILITIES

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

APPROVED BY ONONDAGA COUNTY DEPARTMENT OF DRAINAGE AND SANITATION

COMMISSIONER

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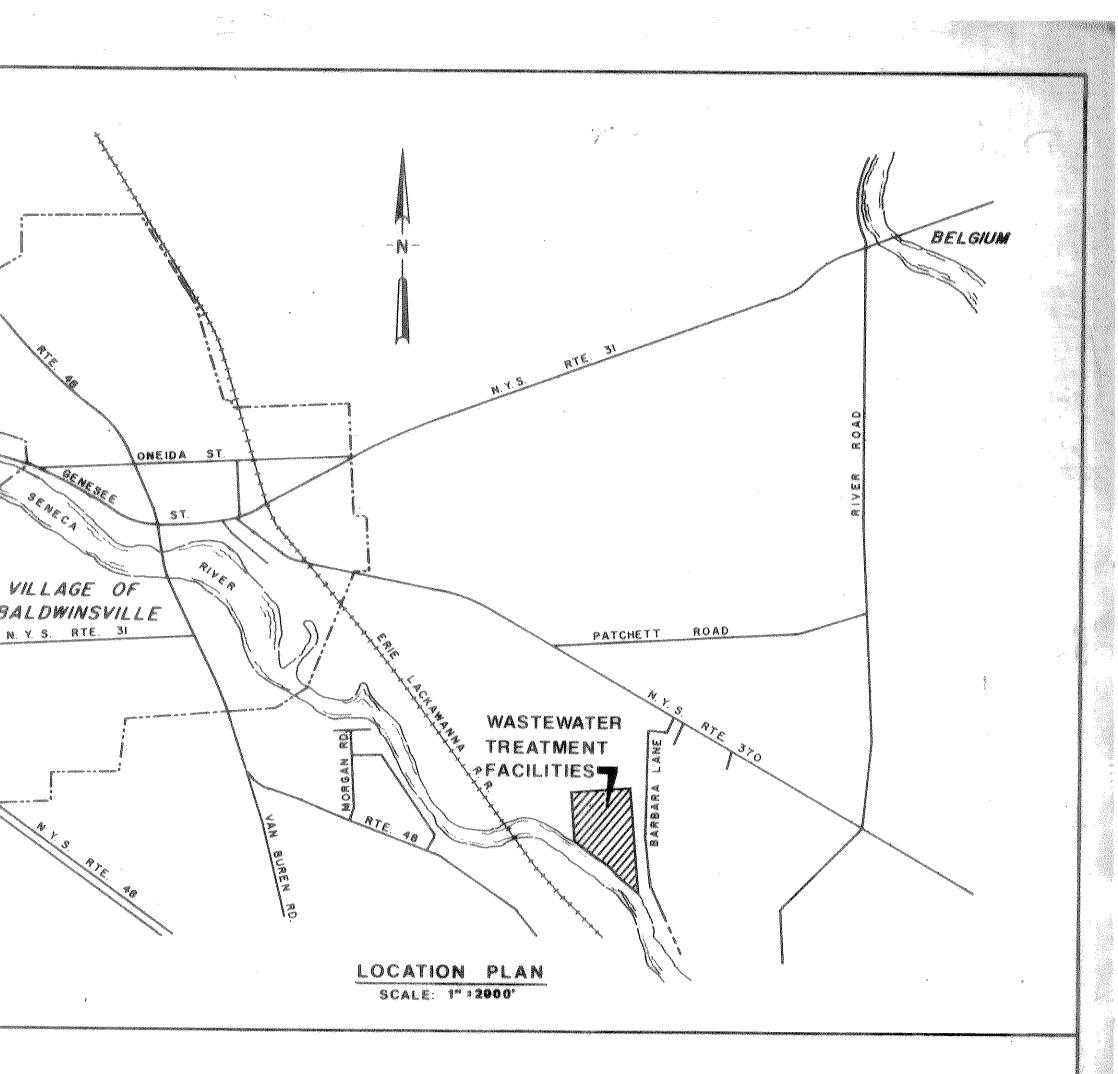
1976

Stearns & Wheler

CIVIL AND SANITARY ENGINEERS CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT

Sterling G. Bristin 31810 PROJECT PARTNER NYSPELIC NO.

- PAJECT 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 <u>7-8-83</u> Por <u>E4R</u>

S.G. Briebin 24 For 78 RELEASED FOR CONSTRUCTION DATE

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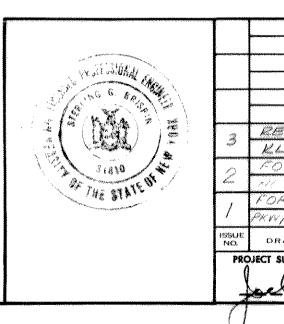
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- E-54 ELECTRICAL DIAGRAMS & DETAILS E-55 ELECTRICAL DIAGRAMS & DETAILS
- E-56-BP BELT PRESS WIRING DIAGRAMS

RECORD DRAWING

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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.



CONTRACT NO. 3 - HVAC

	-
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- P-14 GALLERY NOS. 5, 6 & 7, 1ST & 2ND STAGE SET. TKS. & CHLOR. LOWER PLAN

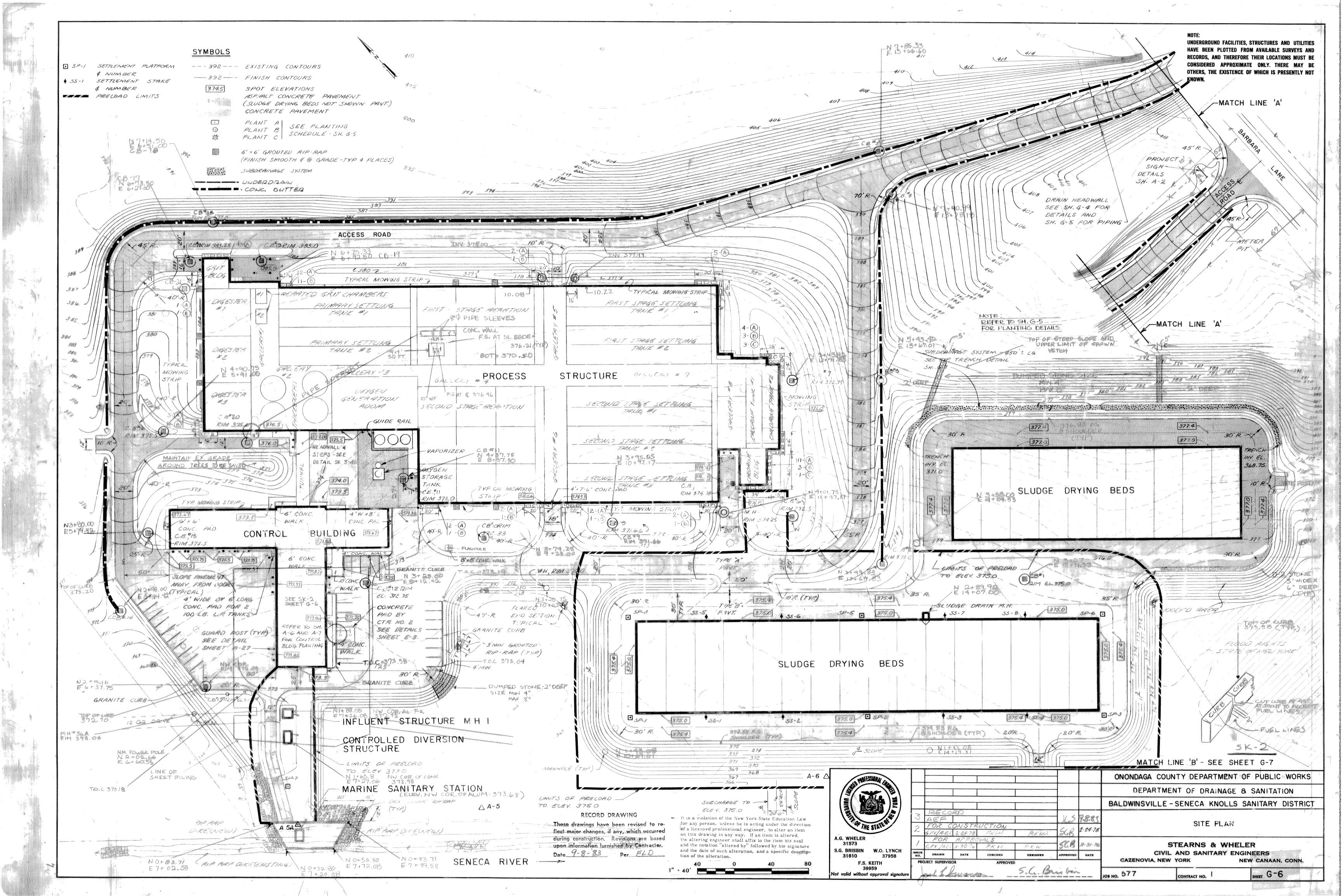
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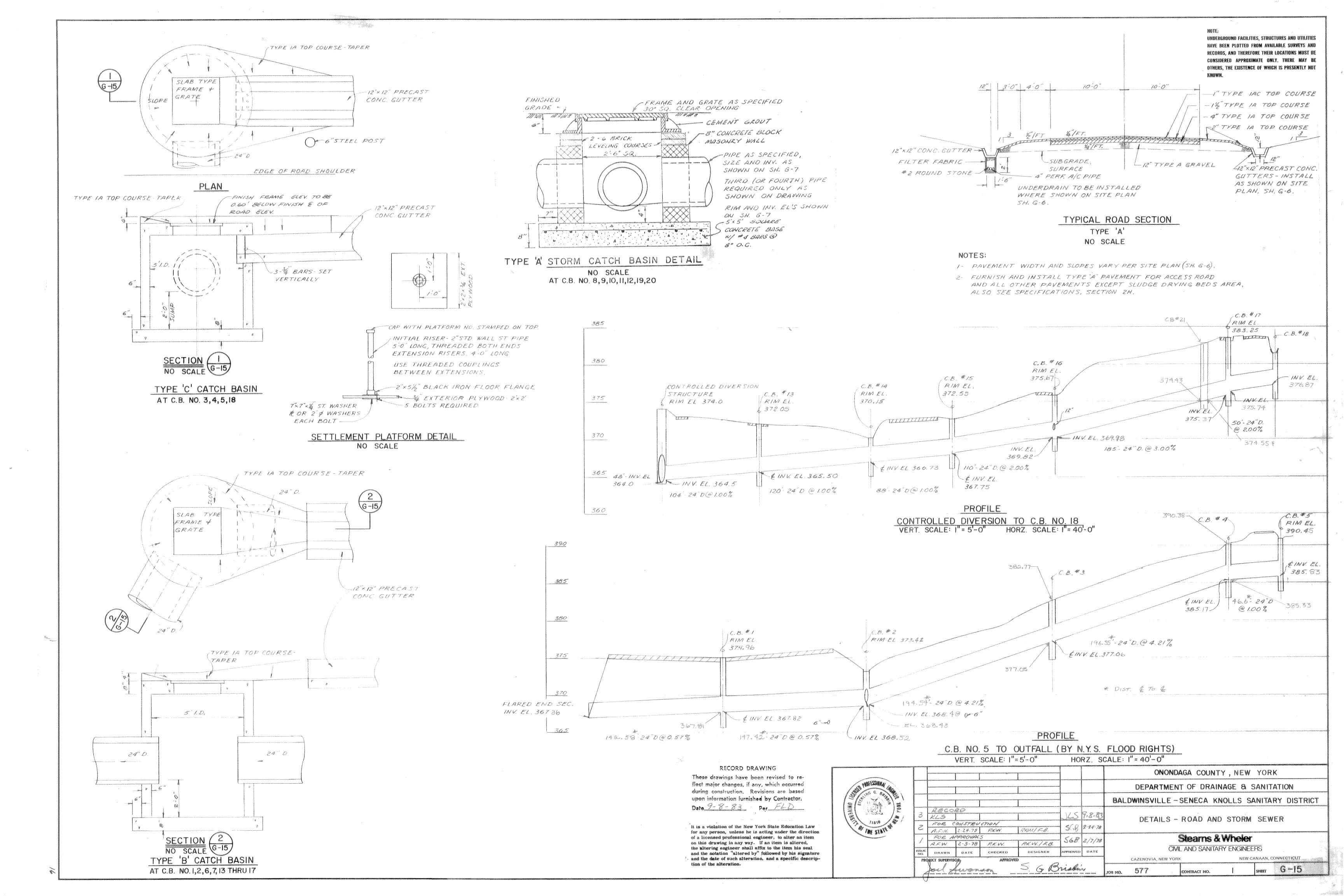
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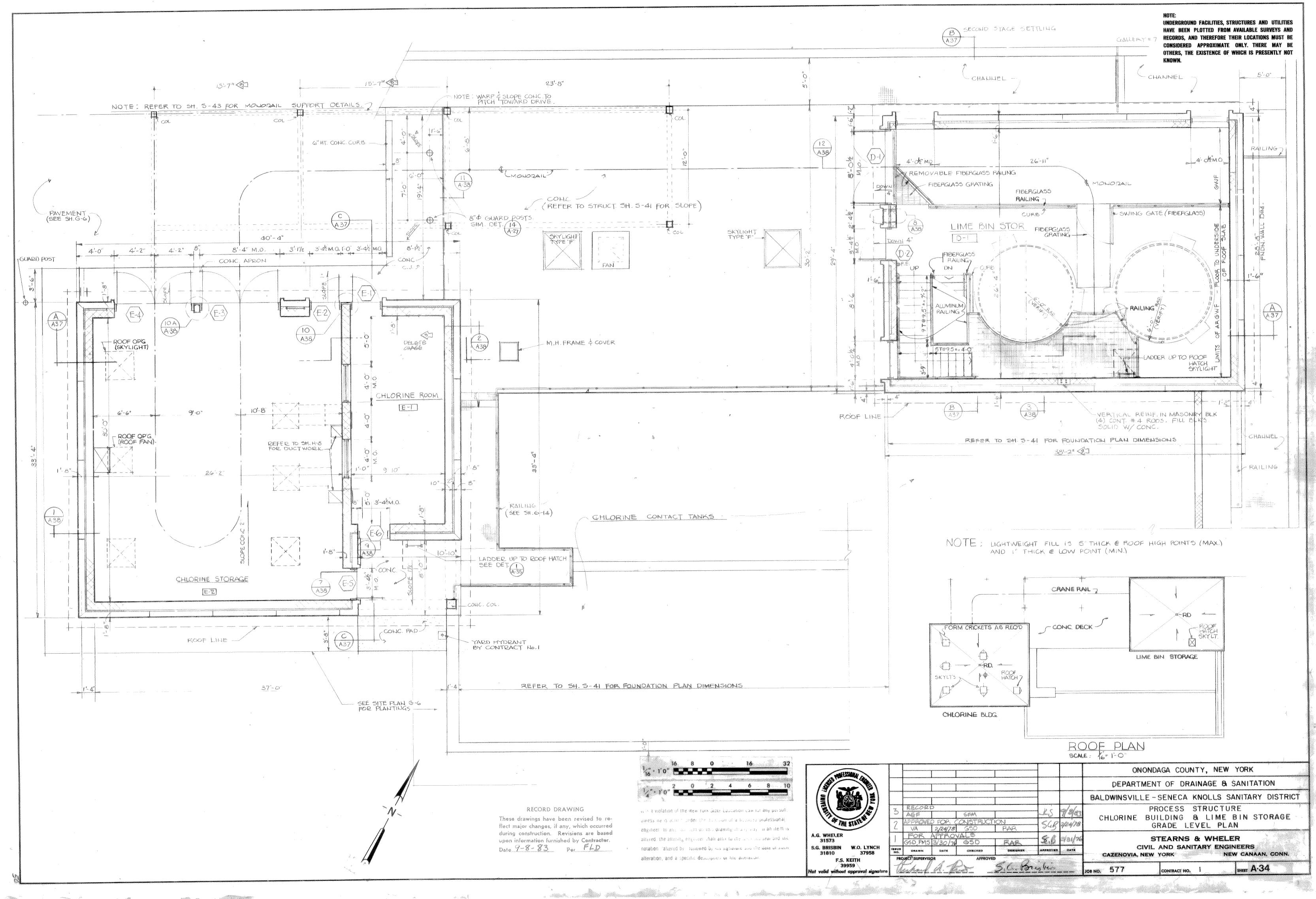
- P-35 ENTRANCE STRUCTURE GALLERY MO. 5
- P-16 GHT BULDING
- P-17 CHLORINE BUILDING AND LIME BIN STORAGE

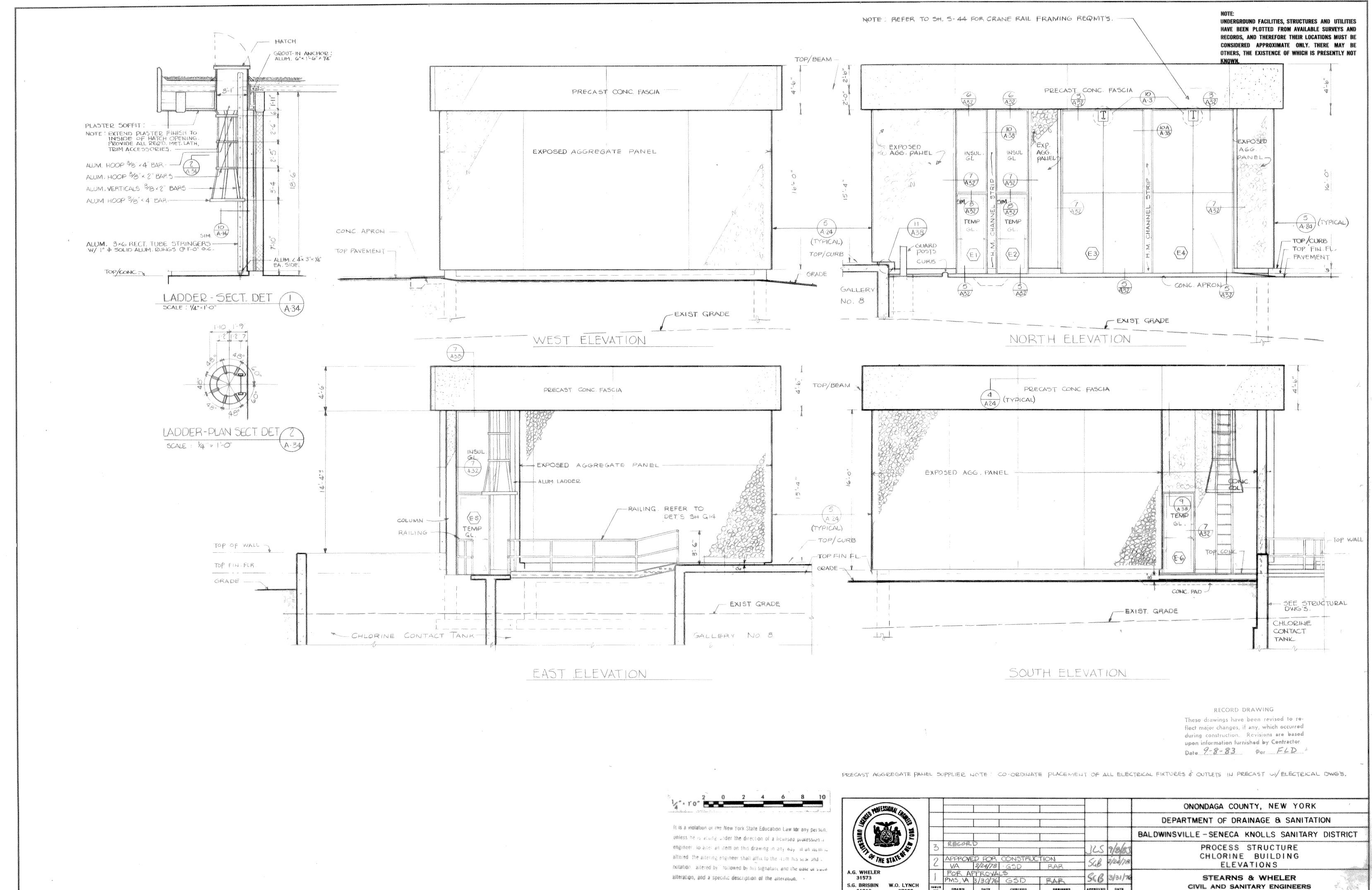
ALL CONTRACTORS ARE ISSUED A COMPLETE SET OF CONTRACT DRAWINGS. WHILE EVERY EFFORT HAS BEEN MADE TO CONCENTRATE THE WORK OF TRADES ON SPECIFIC SHEETS, AND LABELED APPROPRIATELY, THERE ARE NECESSARILY INSTANCES WHERE WORK IS SHOWN ON OR CROSS REFERENCED TO OTHER DRAWINGS. IT IS THE RESPONSI-BILITY OF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

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						DEPARTMENT OF DRAINAGE & SANITATION
Í						BALDWINSVILLE-SENECA KNOLLS SANITARY DISTRICT
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JOB NO. 577

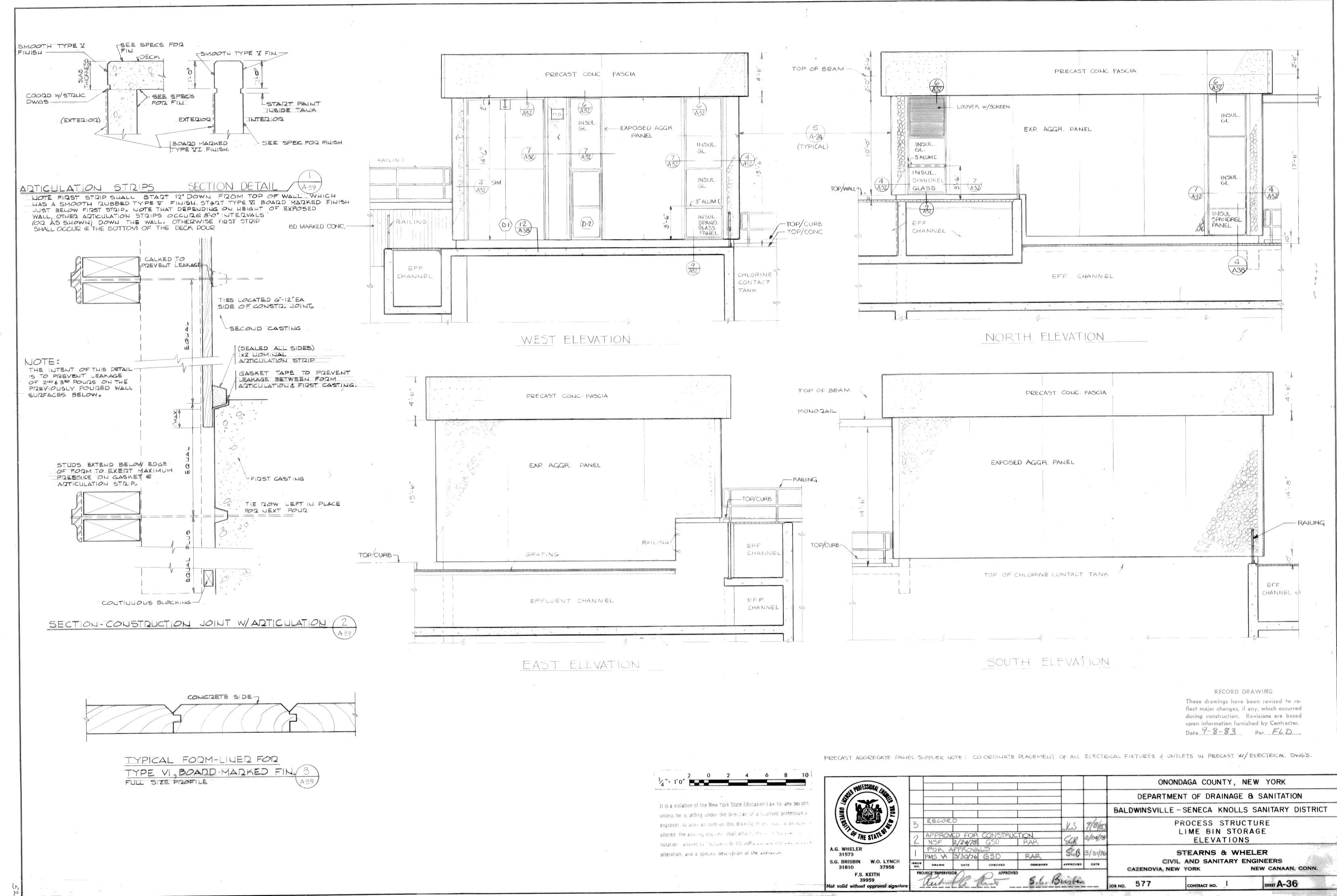
CAZENOVIA, NEW YORK

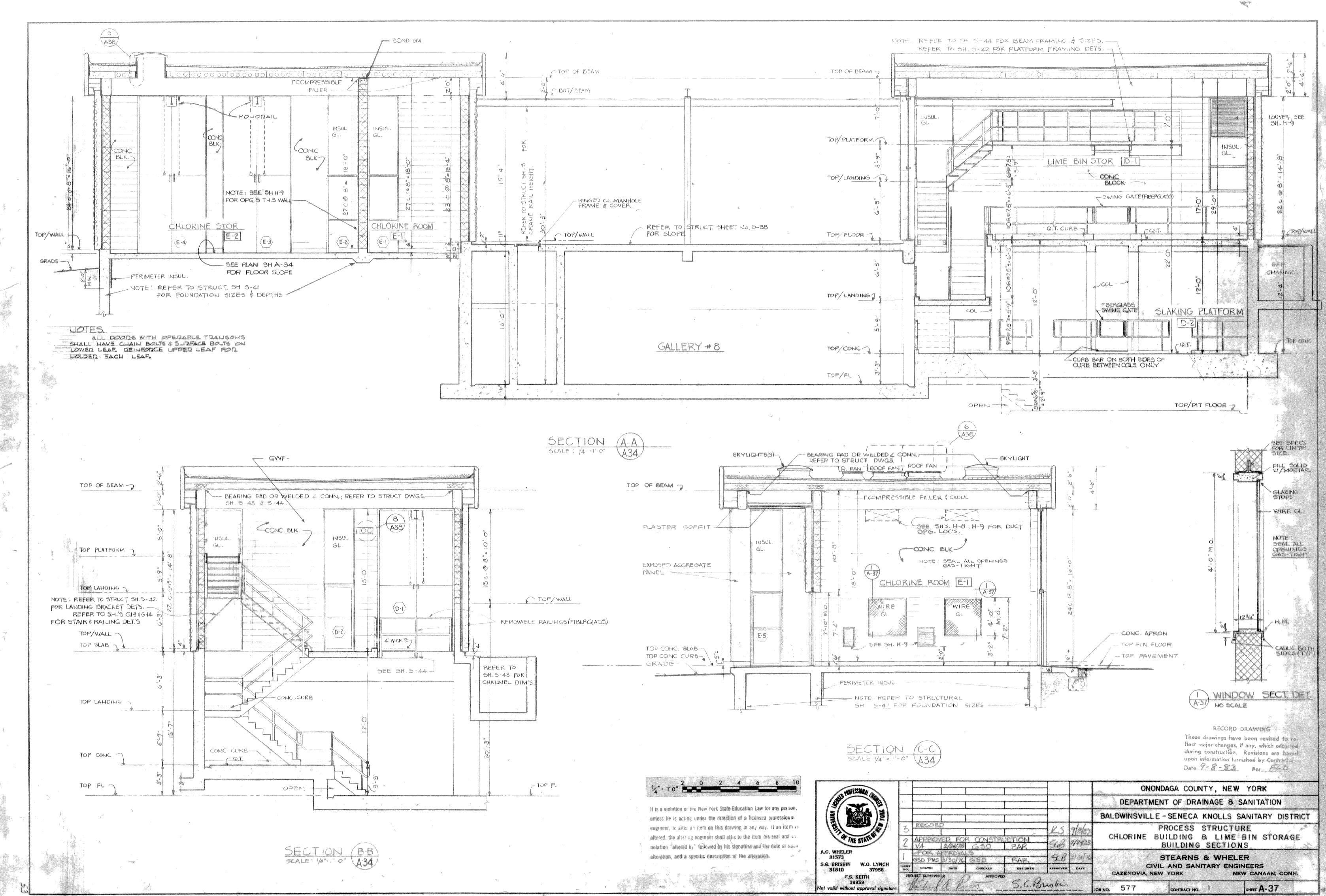
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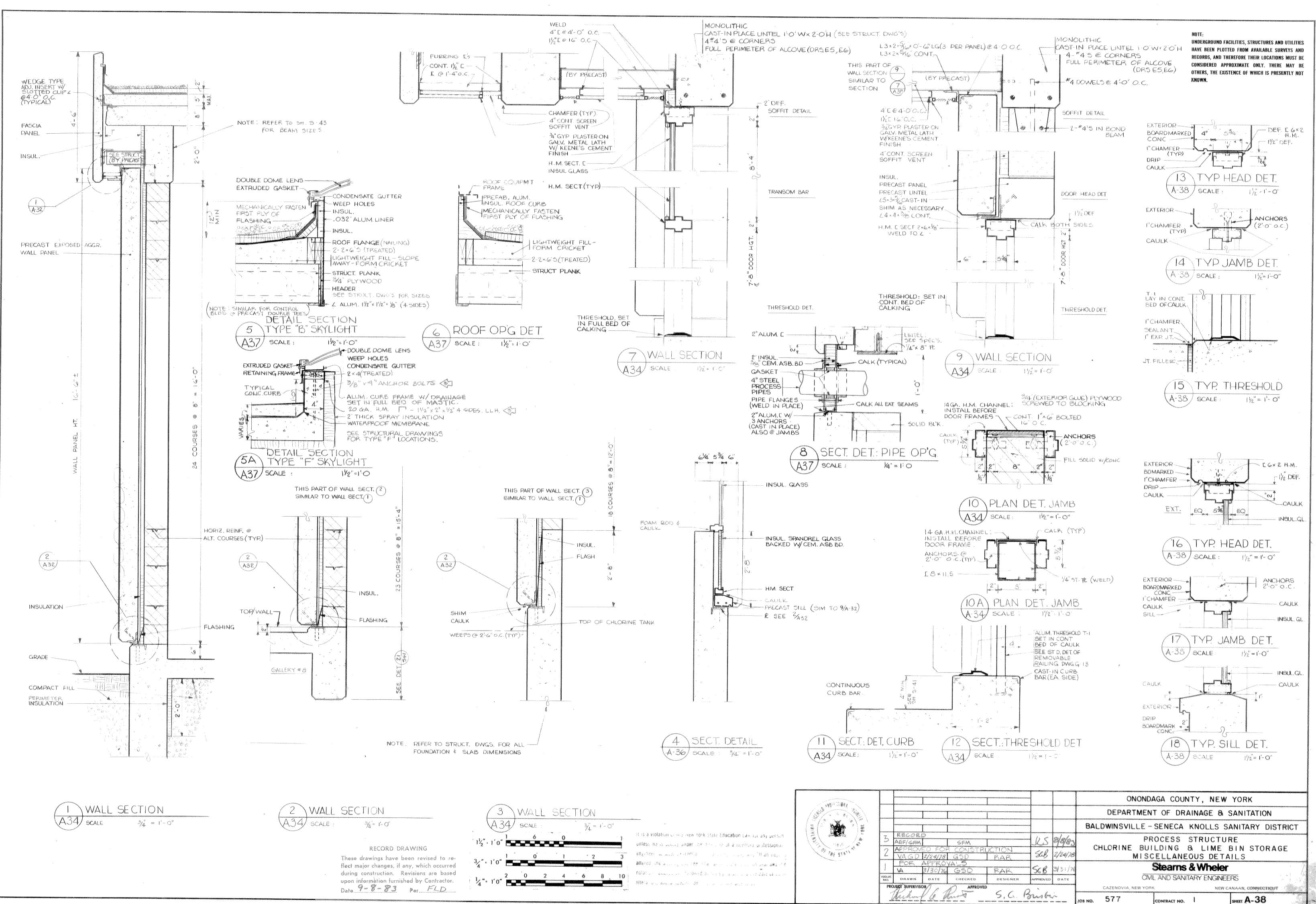
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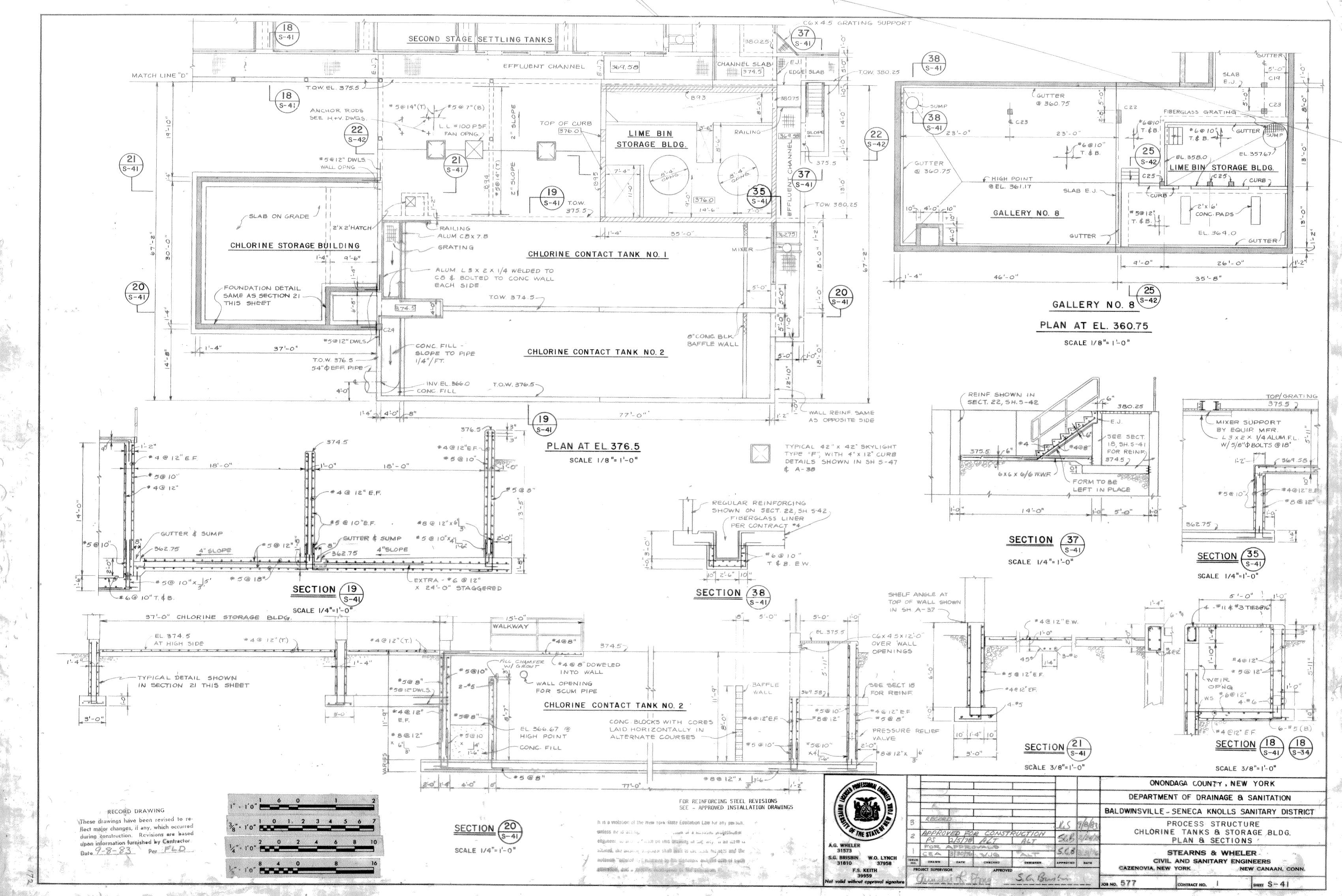
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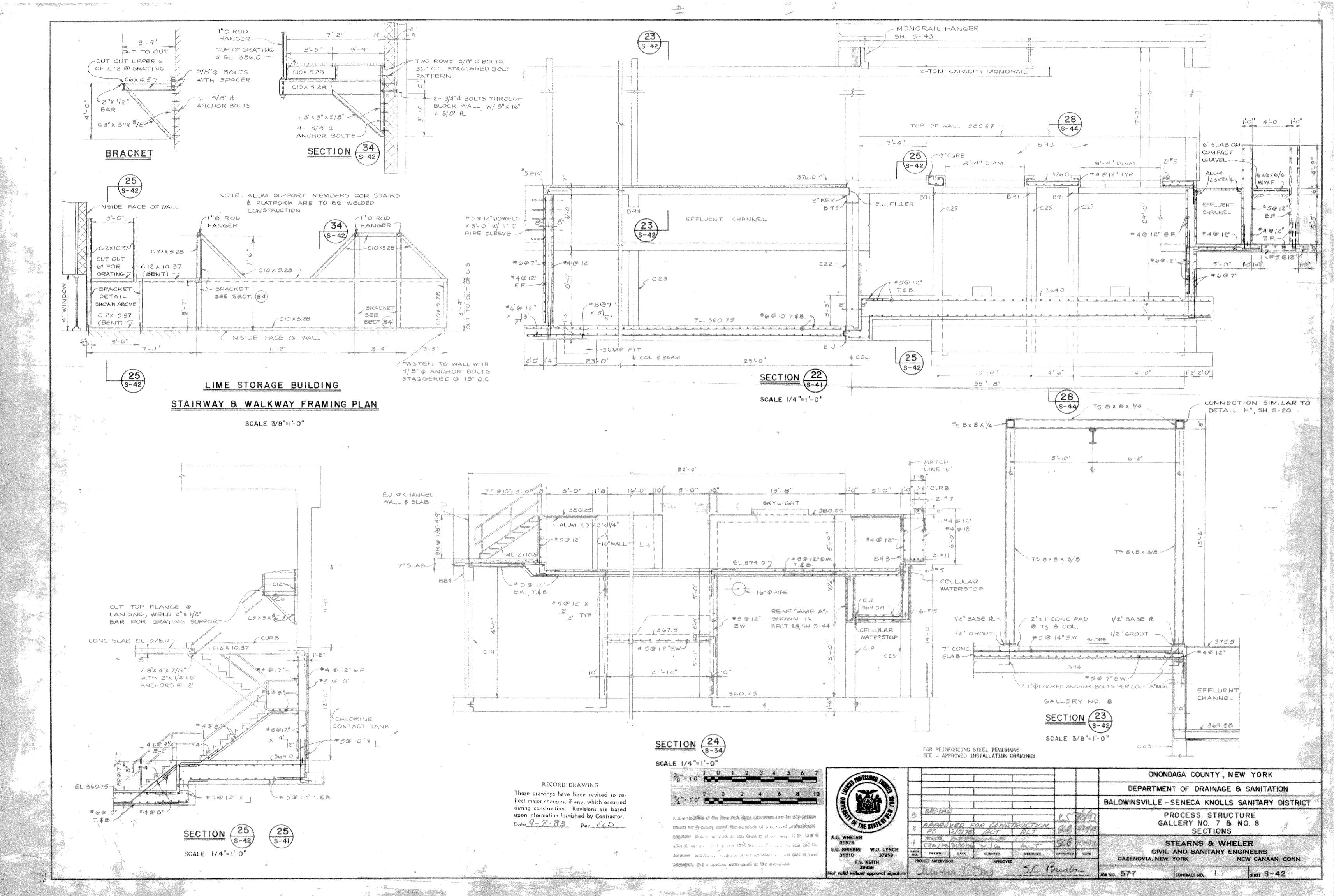
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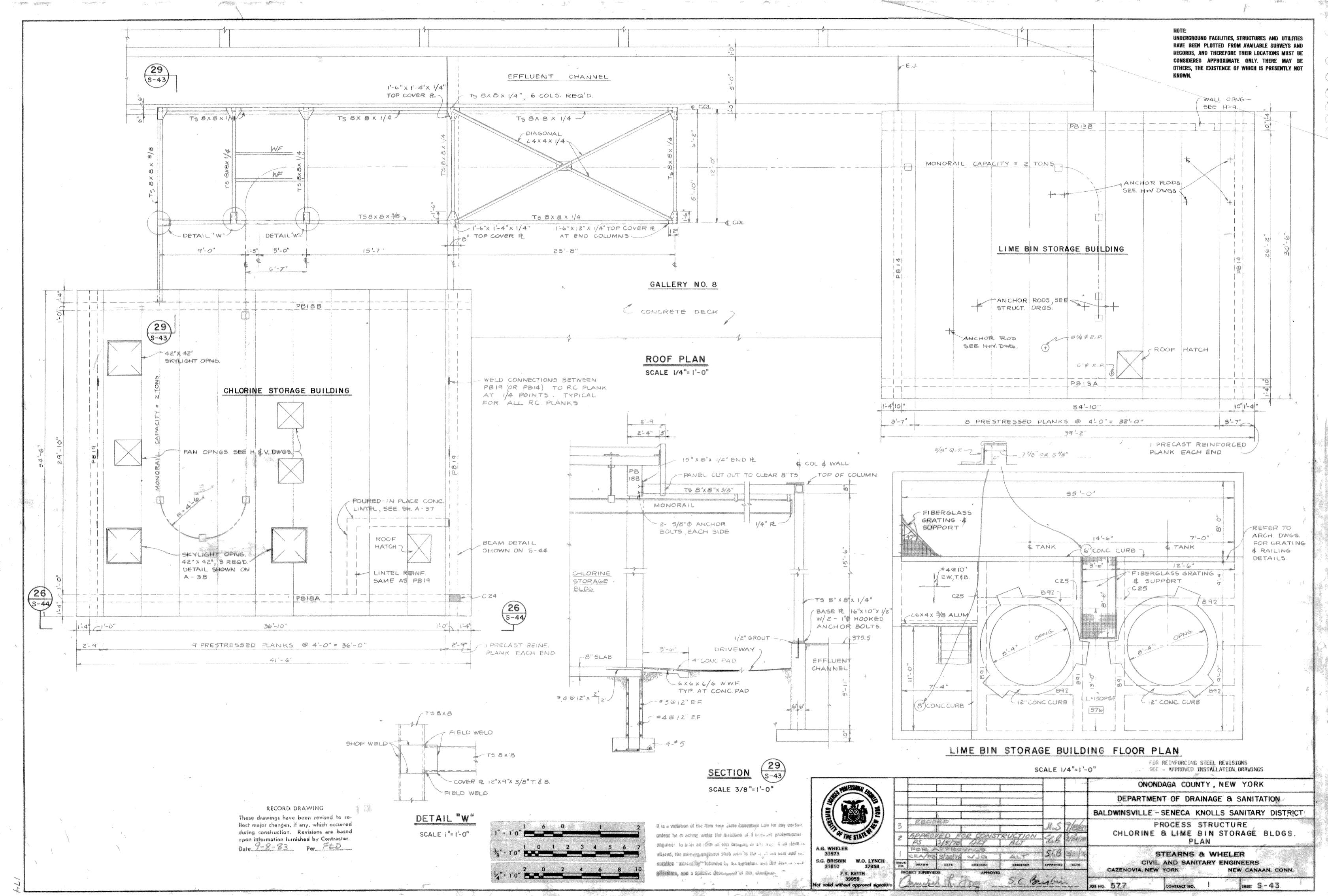






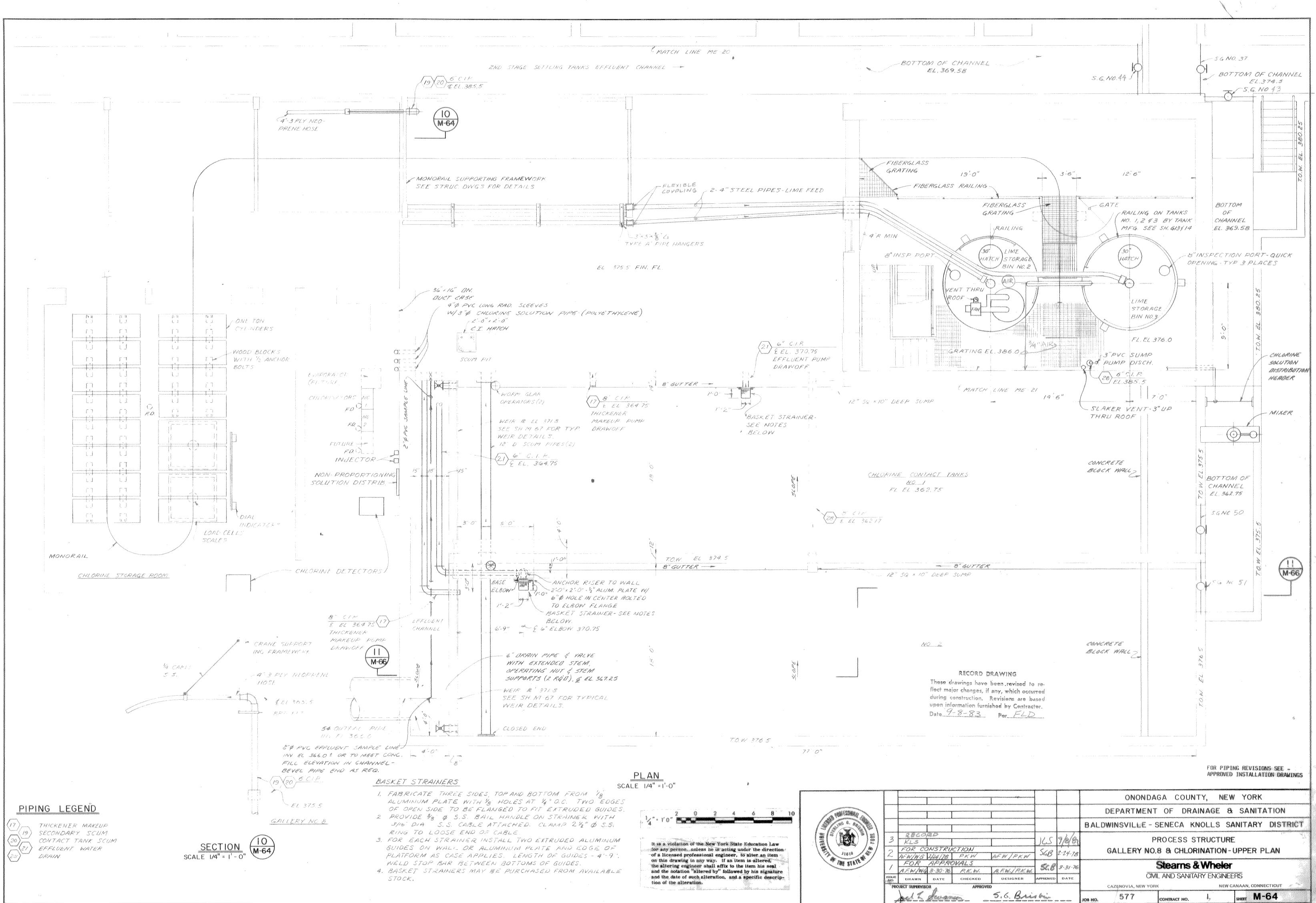


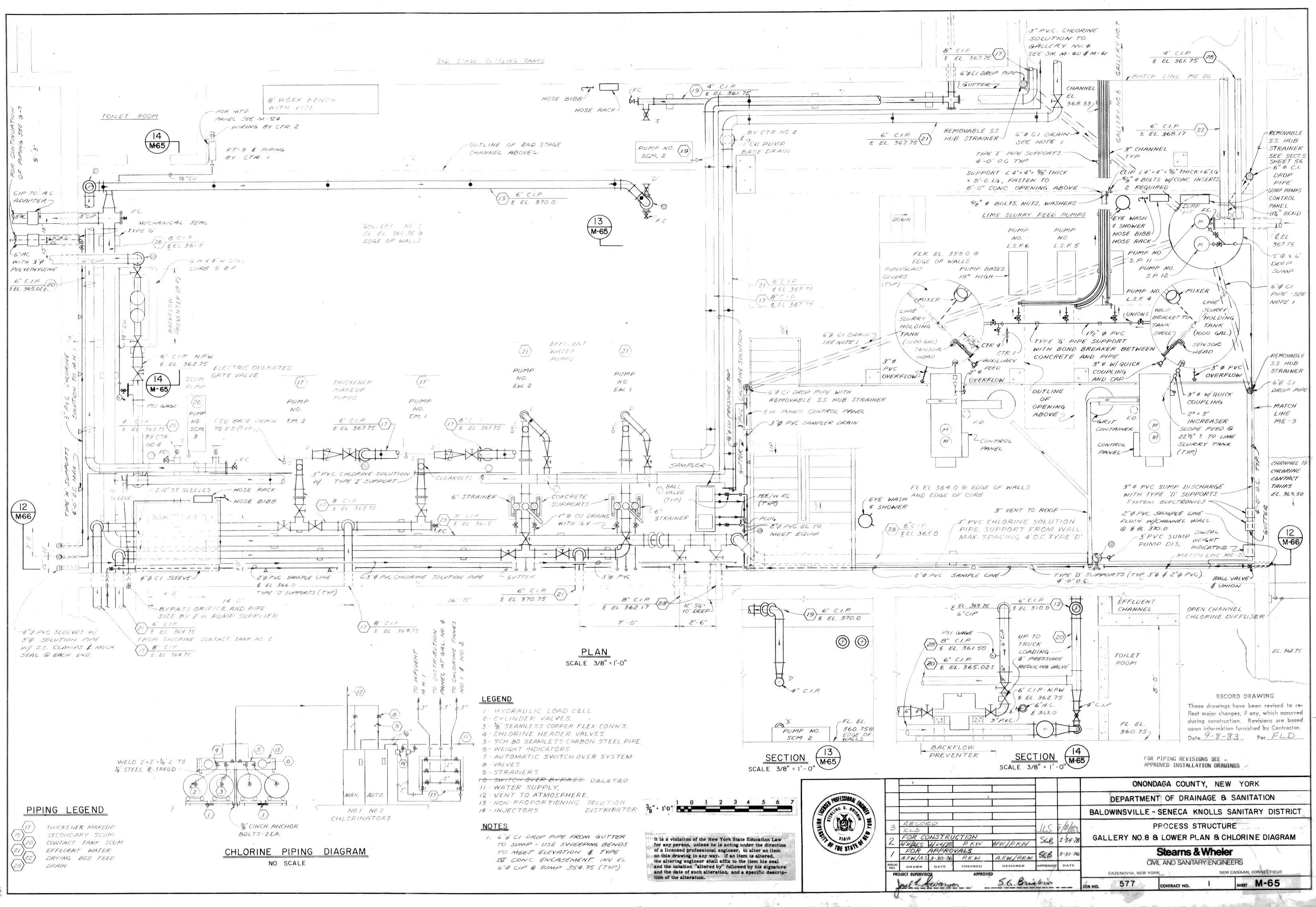




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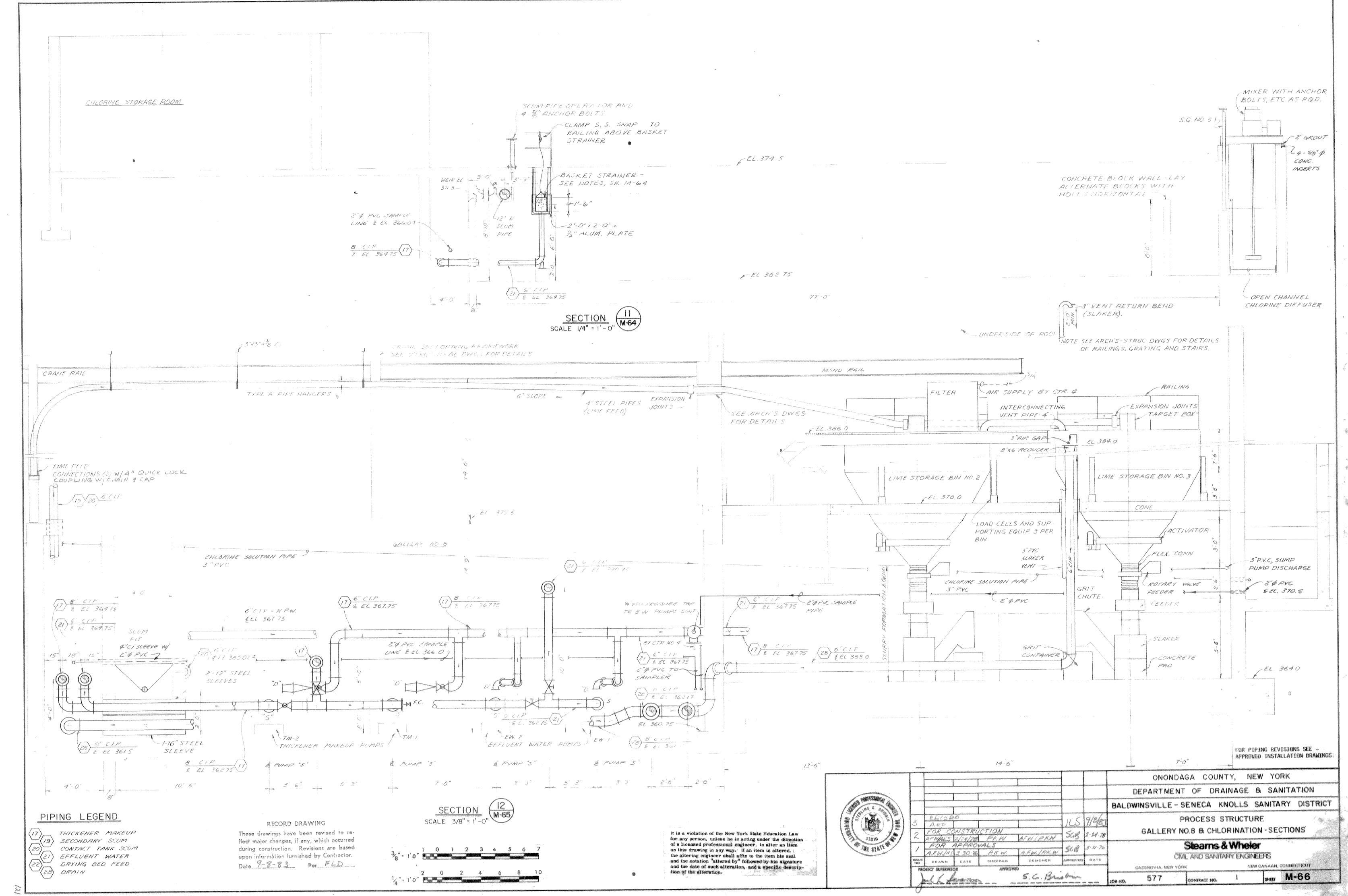
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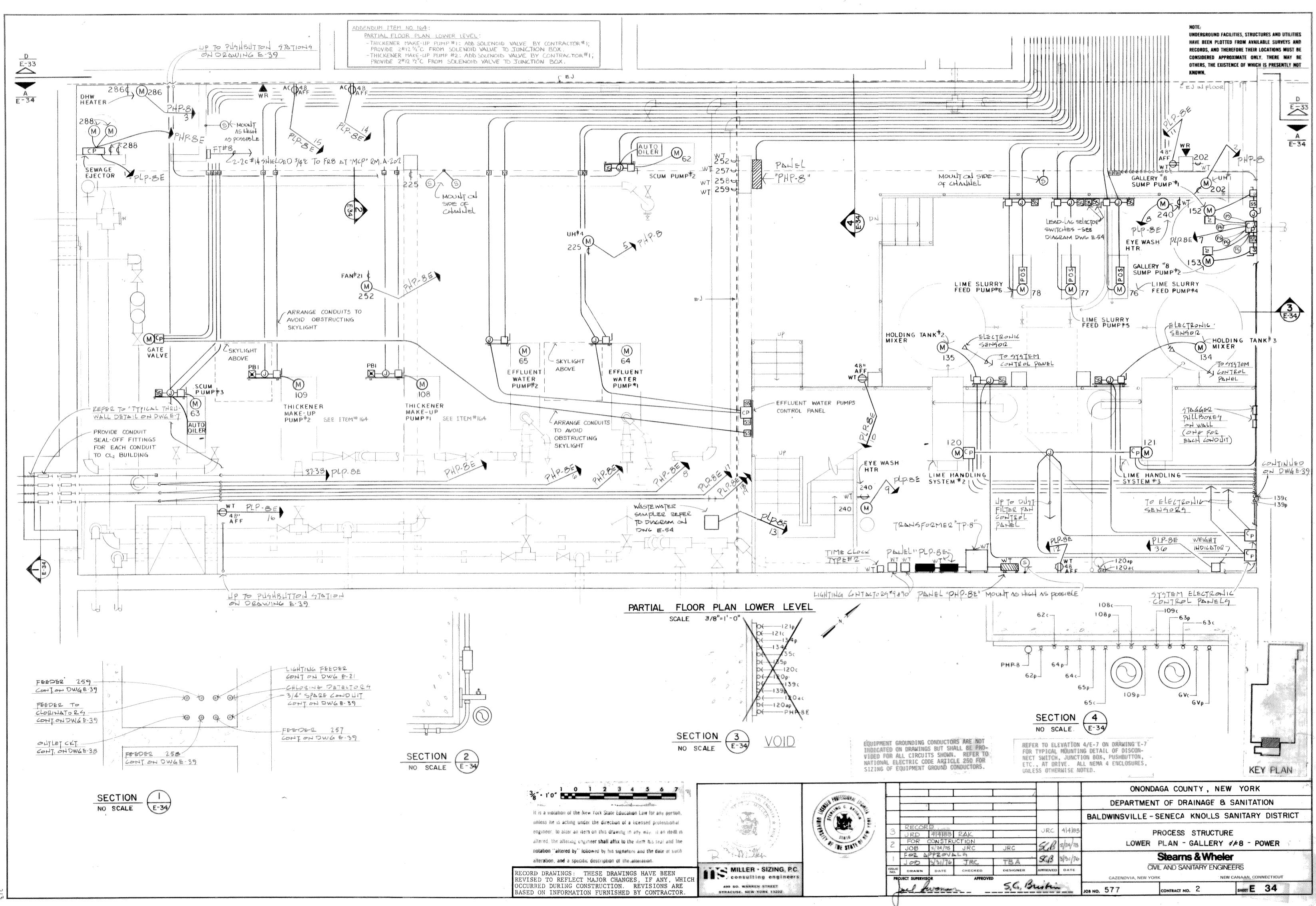


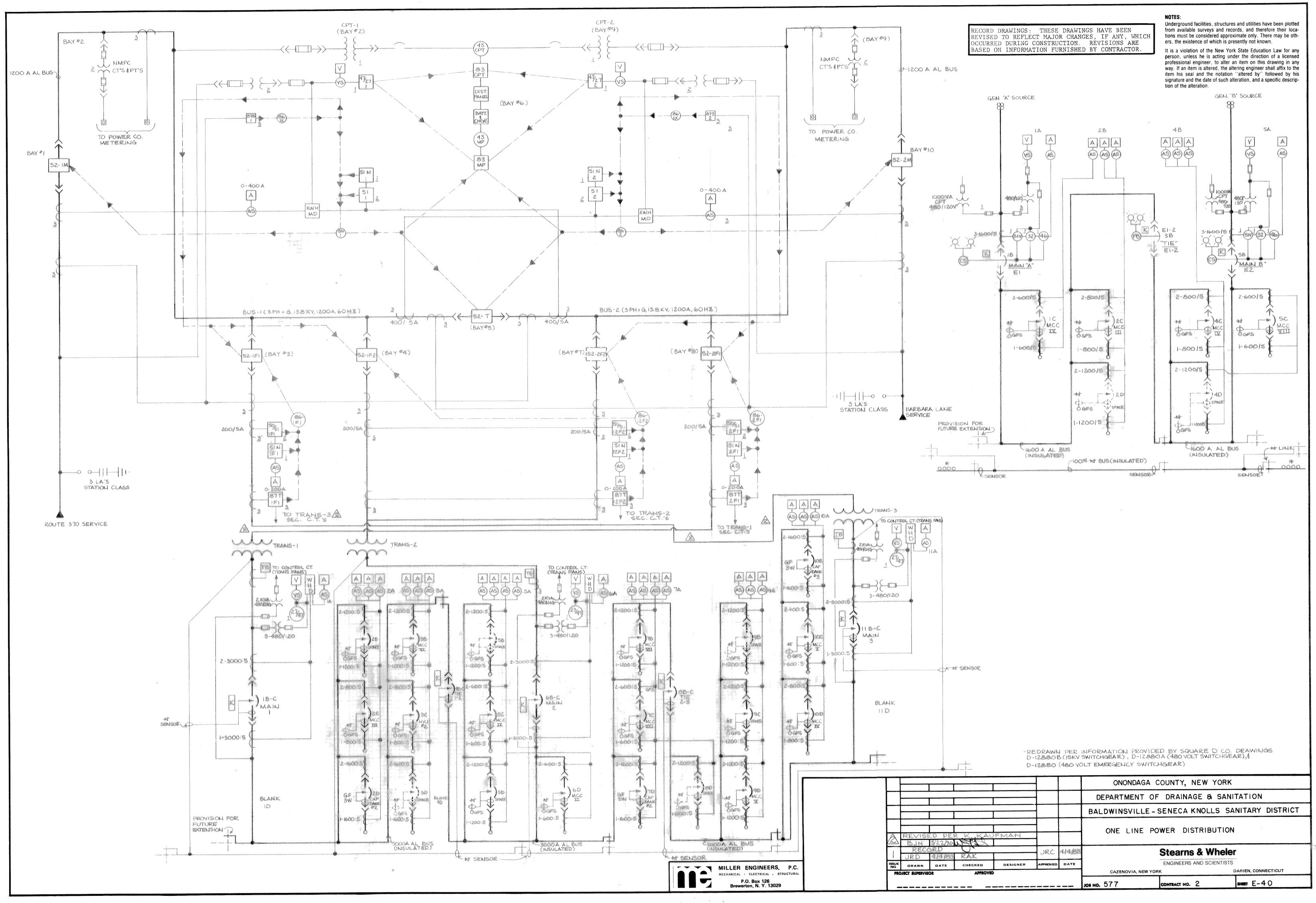
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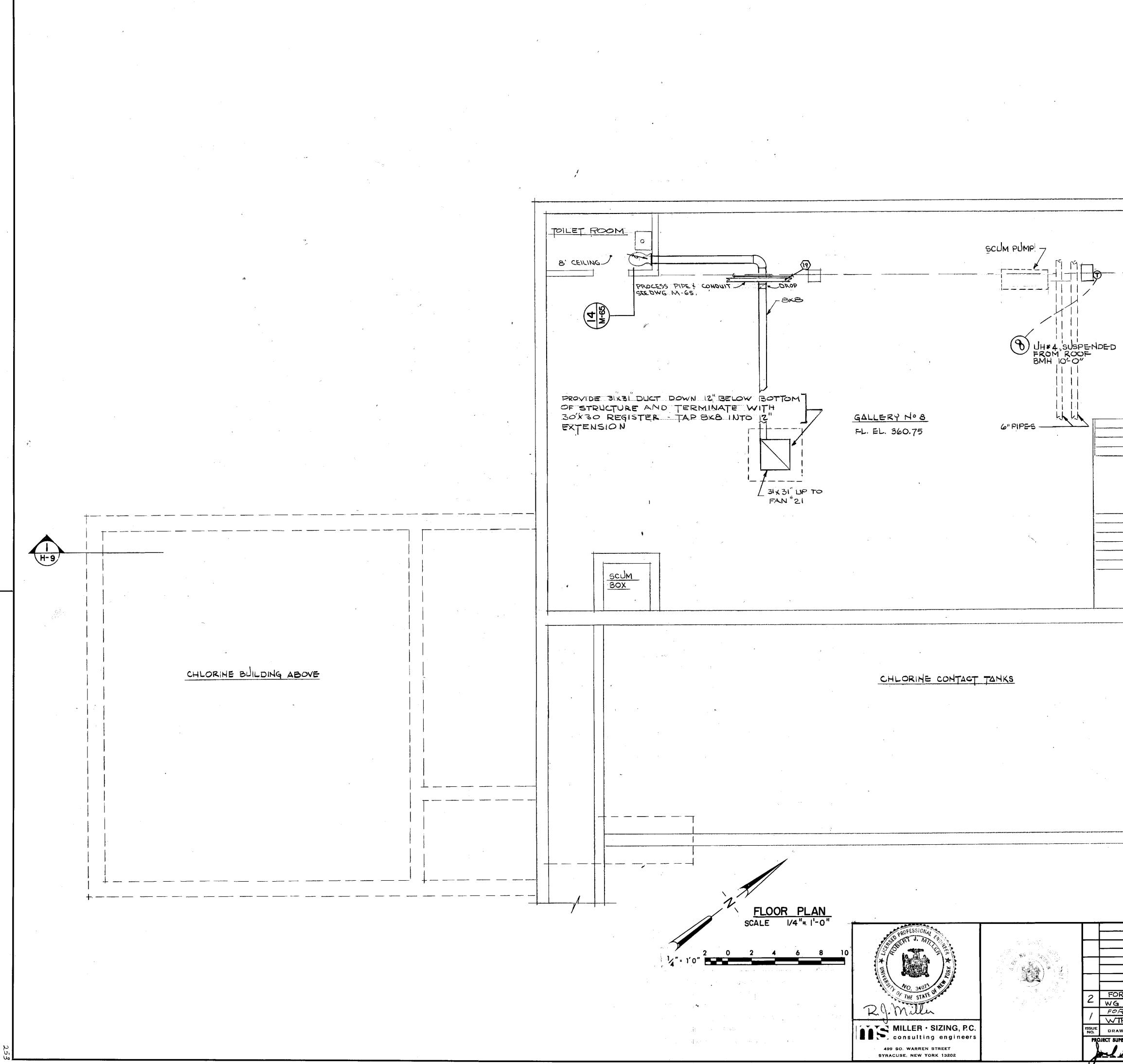


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DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	ENGINEERS AND SCIENTISTS CAZENOVIA, NEW YORK DARIEN, CONNECTICUT
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				-		DEPARTMENT OF DRAINAGE & SANITATION
				-		ONONDAGA COUNTY, NEW YORK
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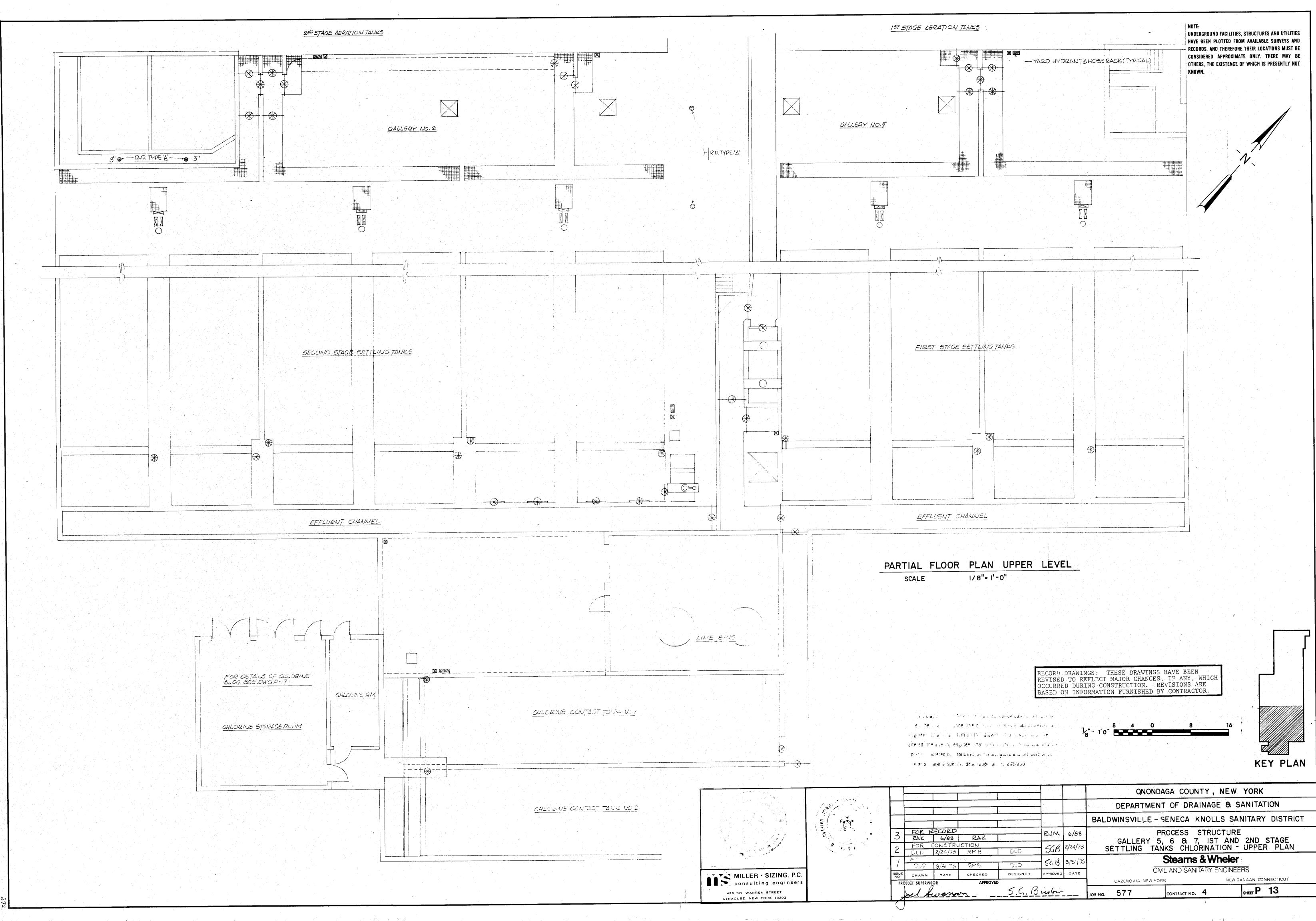
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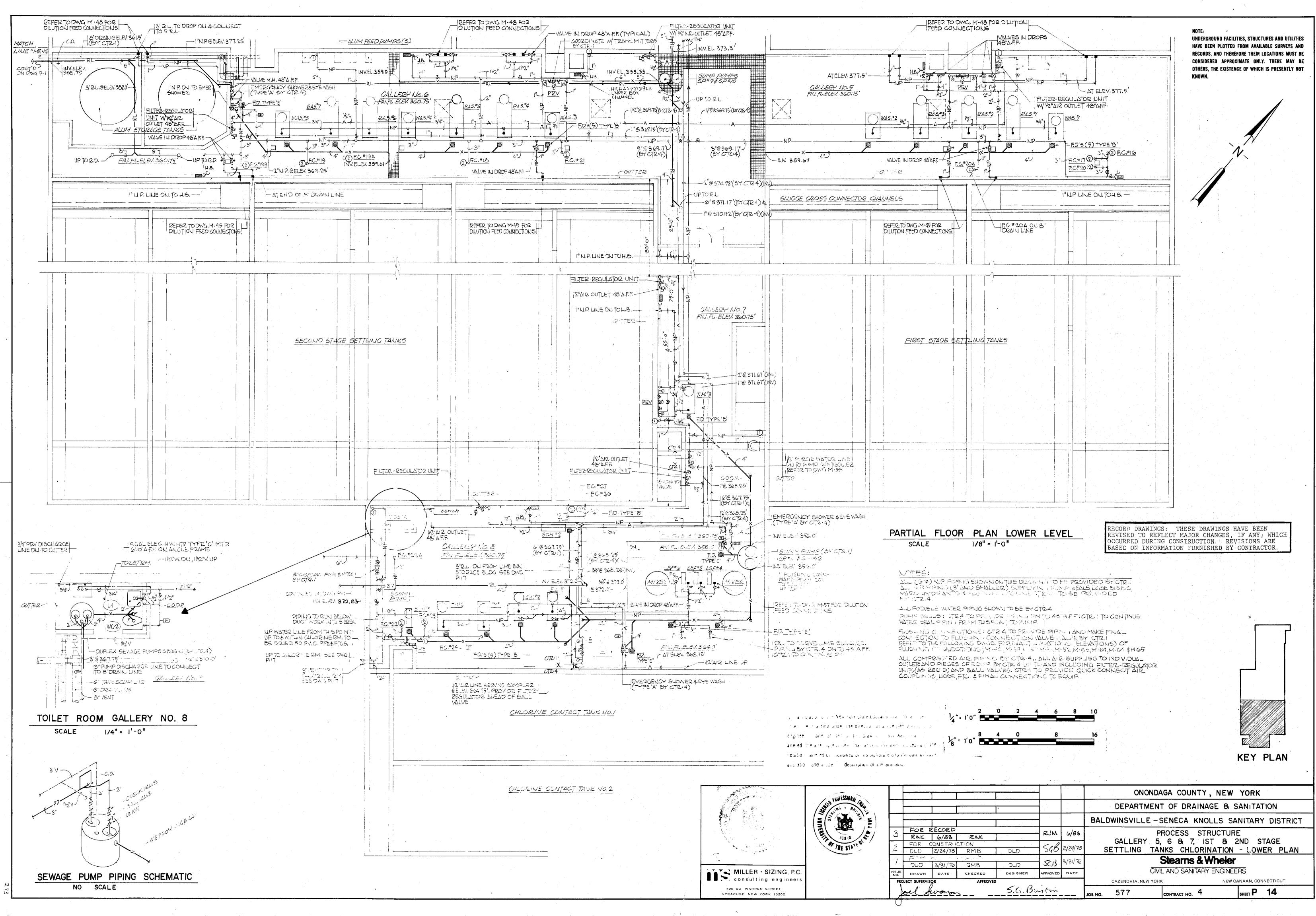
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND **RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE** CONSIDERED APPROXIMATE ONLY. THERE MAY BE Others, the existence of which is presently not Known.

J.

		/^-	GALLERY #7 (SEE DWG. H-18)
		_ _	MATCH LINE ME-20
LINE 3F	CHANNEL ABOVE	g 4	
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			DEPARTMENT OF DRAINAGE & SANITATION
		┨───┤───	BALDWINSVILLE - SENECA KNOLLS SANITARY DISTRICT
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UPERVISOR	S. G. Bu	iben	CAZENOVIA, NEW YORK NEW CANAAN, CONNECTICUT
			JOB NO. 577 CONTRACT NO. 3 SHEET H 19



and the second



Contract Drawings CHEMICAL FEED EQUIPMENT CONVERSIONS FOR SODIUM HYPOCHLORITE DISINFECTION

General Notes:

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10.

The Contractor shall provide all labor, materials and equipment required to complete the work specified in these contract documents.

All work shall be completed in accordance with all applicable local, state, and federal regulations, including the most recent addendum to these regulations.

All work shall be completed in accordance with the requirements of these project documents. Any discrepancies or errors in the contract documents shall be resolved by this Department's representative prior to proceeding with the work in question.

All work is to be completed in a first class manner by qualified and skilled tradespersons.

The Contractor shall be responsible for familiarizing him and/or herself with each project location, and coordinating all work necessary to complete the work scheduled in these documents in a timely manner. All work scheduled as part of this project shall be scheduled so as to minimize the interference with the normal operations of the facilities. The Contractor shall notify this Department a minimum of 48 hours prior to performing any work which may affect or disrupt the operations of the existing facilities.

The contract drawings herein are to provide information regarding existing conditions and the configuration for the new work. For sake of clarity, these drawings may not include all existing conditions. The contractor is responsible for verifying all dimensions and existing conditions in the field.

The Contractor shall be responsible for protecting and securing the site of the work from trespass, unauthorized entry, malicious mischief and vandalism. The Contractor shall maintain the site in a safe, neat and orderly condition, and shall promptly remove on a regular basis all dirt, rubbish and debris resulting from their work.

All materials and equipment removed as part of this contract shall become the property of the Contractor and removed immediately from the project site unless otherwise notified by this Department. All material removed from site shall be disposed of in accordance with all applicable local, state, and federal regulations at the Contractor's expense.

All materials, equipment and workmanship shall be subject to inspection and testing by this Department's representative, including work already completed but not finally accepted. No work shall be covered or otherwise concealed without this Department's representative being afforded the opportunity to inspect same.

The Contractor shall, at their own expense, sustain in their places and permanently protect from direct or indirect injury any and all utilities, structures and property in the vicinity of their work, whether over or underground, or which appear within the trench or excavations. The Contractor shall assume all costs and expenses for direct or indirect damage which may be occasioned by injury to any of them.

Project #587346

Contract No. 5 - General

Project Locations:

- **Brewerton Water Pollution Control Plant (WPCP)**
- 2. Baldwinsville Seneca Knolls Water Pollution Control Plant
- 3. Wetzel Road Sewage Treatment Plant (STP)
- 4. Oak Orchard Water Pollution Control Plant

June 1999

County of Onondaga Department of Drainage and Sanitation Syracuse, New York

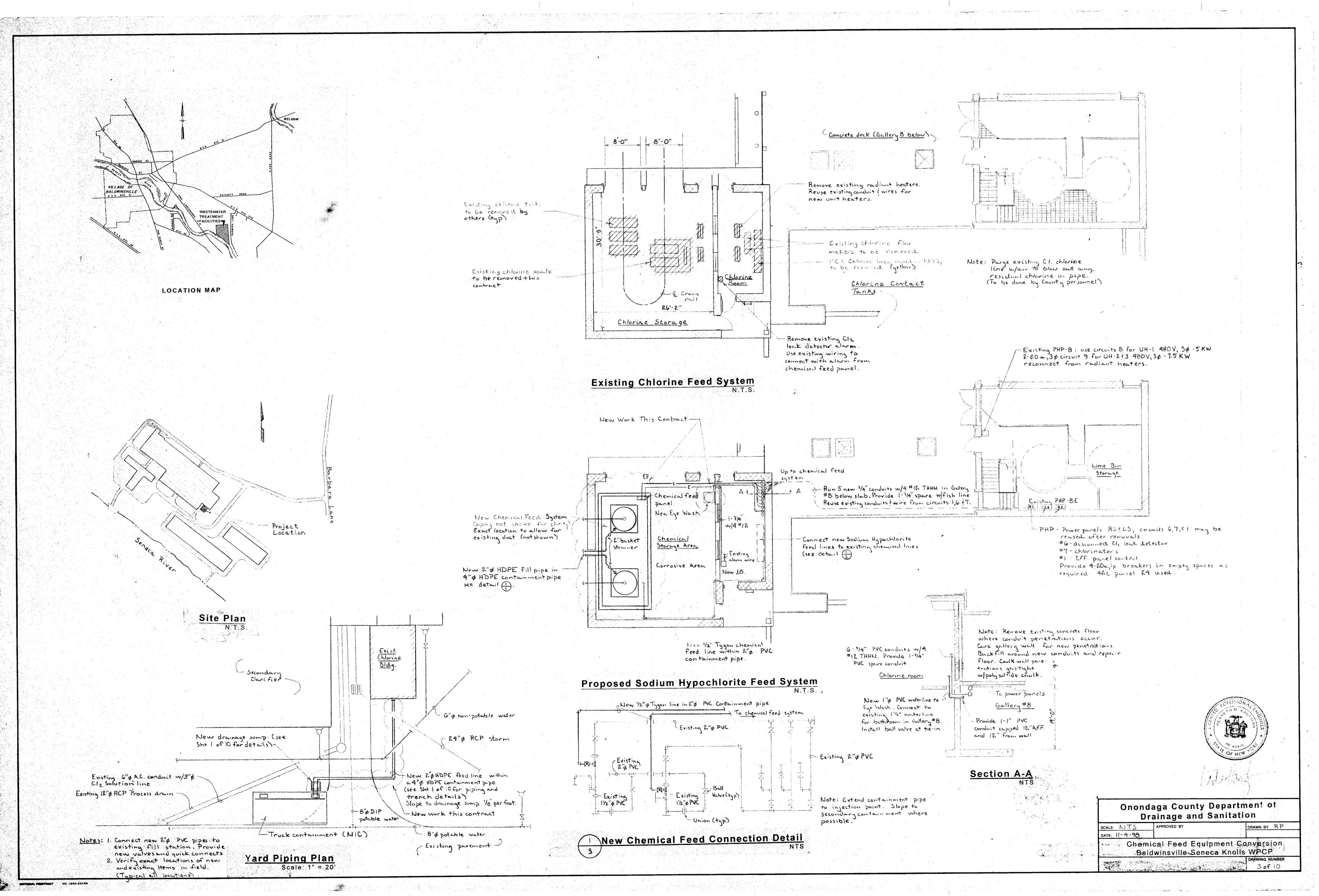
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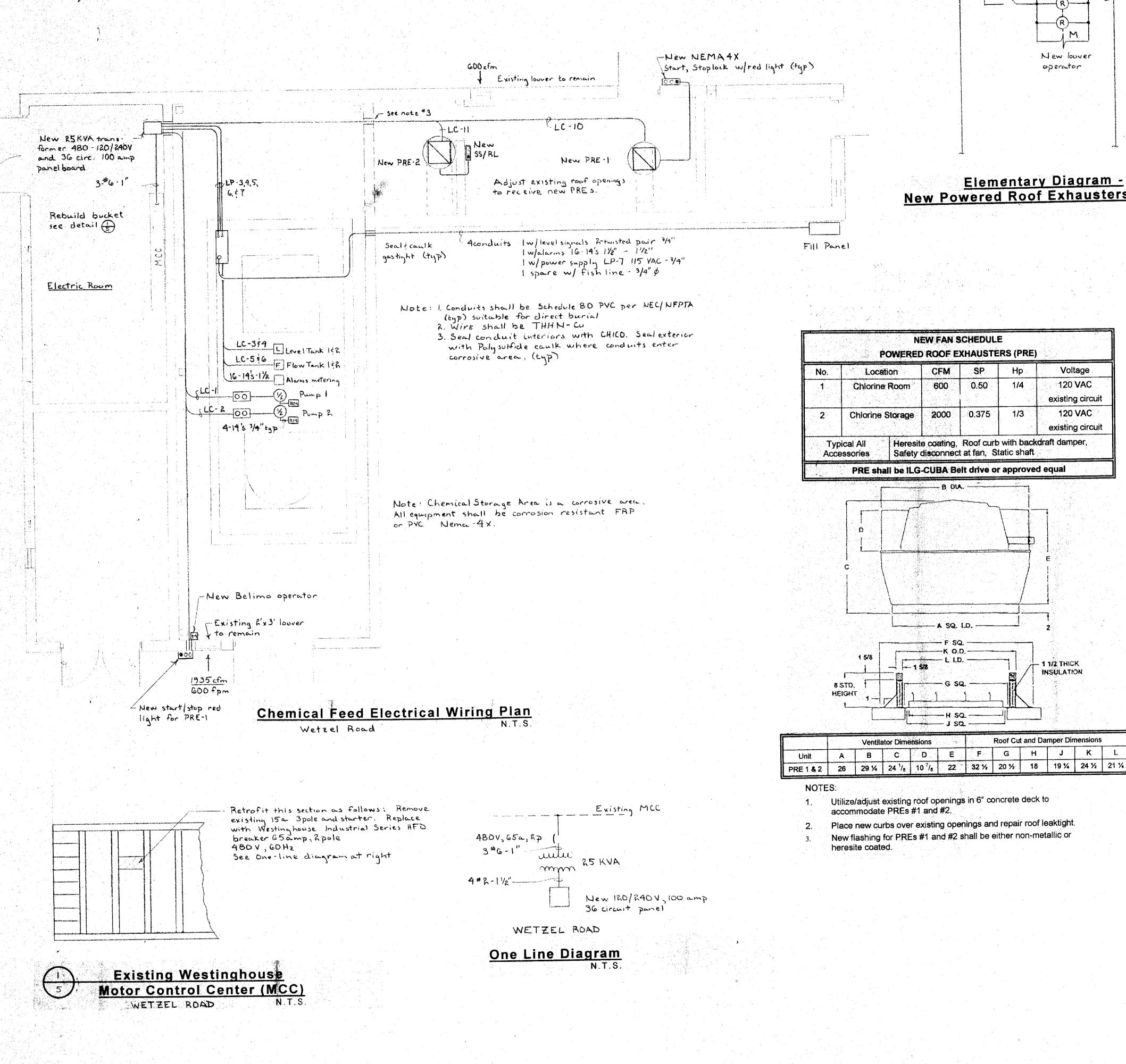
Cover Sheet

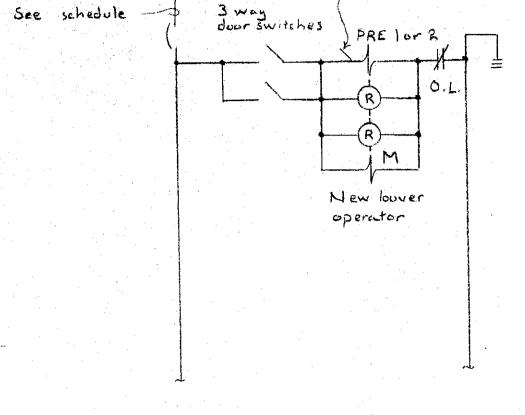
- Chemical Feed Equipment Conversions: Brewerton WPCP
- Chemical Feed Equipment Conversions: Brewerton WPCP New Chemical 2 Feed and Water Lines
- Chemical Feed Equipment Conversions: Baldwinsville-Seneca Knolls WPCP 3
- Chemical Feed Equipment Conversions: Wetzel Road STP
- Chemical Feed Equipment Conversions: Baldwinsville-Seneca Knolls and 5. Wetzel Road
- Chemical Feed Equipment Conversions: Oak Orchard WPCP 6.
- Chemical Feed Equipment Conversions: Oak Orchard WPCP
- Chemical Feed Equipment Conversions: Details 8.
- Chemical Feed Equipment Conversions: Electrical 9.
- Chemical Feed Equipment Conversions: Electrical 10.

John M. Karanik Commissioner

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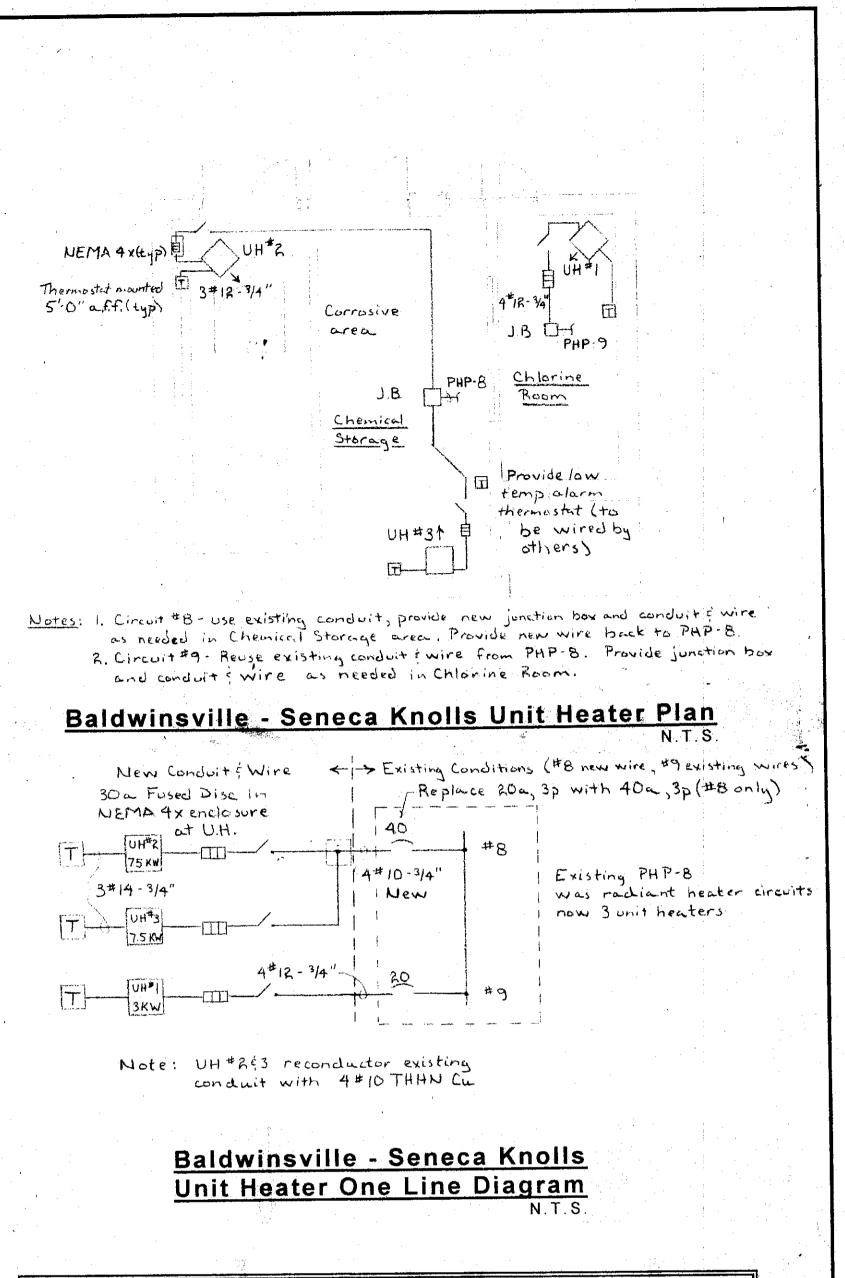
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New Powered Roof Exhausters (PRE)

ATIONAL PRINTFAST NO. 1884-24X34

Voltage 120 VAC existing circuit 120 VAC existing circuit

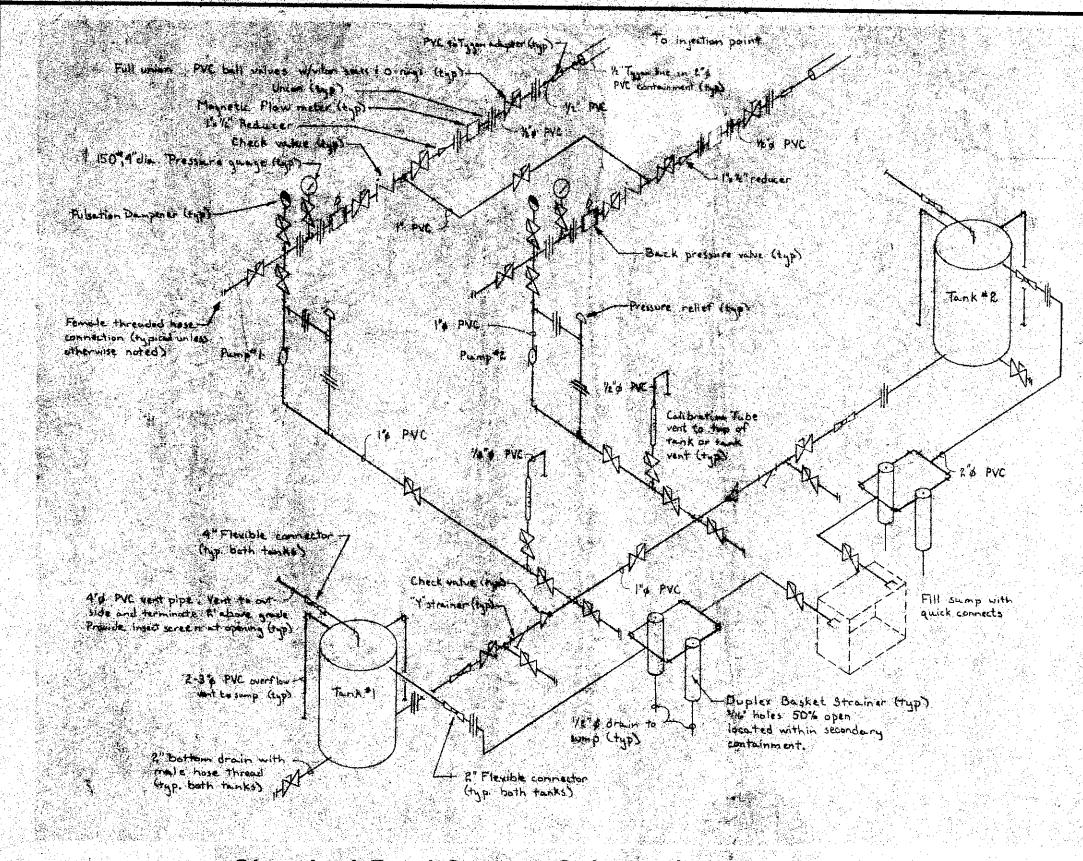
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PRE 1 & 2	26	29 1/4	24 ¹ /8	10 7/8	22	32 1/2	20 1/2	18	19 ¼	24 1/2	21 1⁄4



No.	Volts	Phase	BTU/Hr	CFM	Mt. Ht.	Fluid
1	480	3	17,100	570	8'	Ethylene Glycol
2	480	3	25,600	570	8'	Ethylene Glycol
3	480	3	25,600	570	8'	Ethylene Glyco



Ononda Dra	ga County inage and	Depart Sanita	tment of tion
SCALE: NTS	APPROVED BY		DRAWN BY RP
DATE: 10-28-98			
Chemic Baldwinsv	al Feed Equ /ille - Seneca	ipment (Knolls 8	Conversion Wetzel Road
			DRAWING NUMBER 5 of 10



<u>Chemical Feed System Schematic</u>

- Notes 1. Provide double wall piping outside of containment in accordance with NYCRR Part 599. Buried piping is to be HDPE, above grade is to be PVC. 2. Provide a ball valve and check valve where product
- lines connect to solution lines 3. All ball valves shall be PVC with Viton seats and
- Viton O-rings. 4. All hardware shall be HDPE, PVC, FRP, or nylon. This includes, but is not limited to, nuts, bolts, washers, straps, and hangers.
- Tanks shall be HDPE, 1,000 gallon with a 950 gallon 5. working capacity (Top side fill). Coordinate location of Fill Panel and Control Panel 6
- with Site Plans. Basket strainers shall be Hayward Simplex or equal with 3/16" openings 50% open.
- All electrical conduits and fittings shall be Schedule 8. 80 PVC installed in accordance with the National Electric Code.
- 9. Vent pipe shall terminate two feet above grade with a plastic insect screen. 10. All piping shall be braced and secured every 3 feet. All devices shall be braced and strapped on both
- ends. 11. Product lines shall be Tygon, nylon, or polyethylene within a two inch PVC containment pipe. Containment
- pipe shall slope as indicated. 12. PVC containment shall begin within the chemical
 - containment area and shall extend to chemical injection point. Slope containment pipe, 1/8 inch per foot, to containment area when possible.

Growt in sleeve with non-shrink ----growt Steel pipe sleeve with 14"+1-k steel escutcheon plate. Coordinate sleeve size and containment conduit with mechanical seal manufacturer, Provide 1/2"\$ bolt holes evenly spaced. Caulk between plate and wall with waterpros f cauk +40000000 Mechanical seal-N. è.

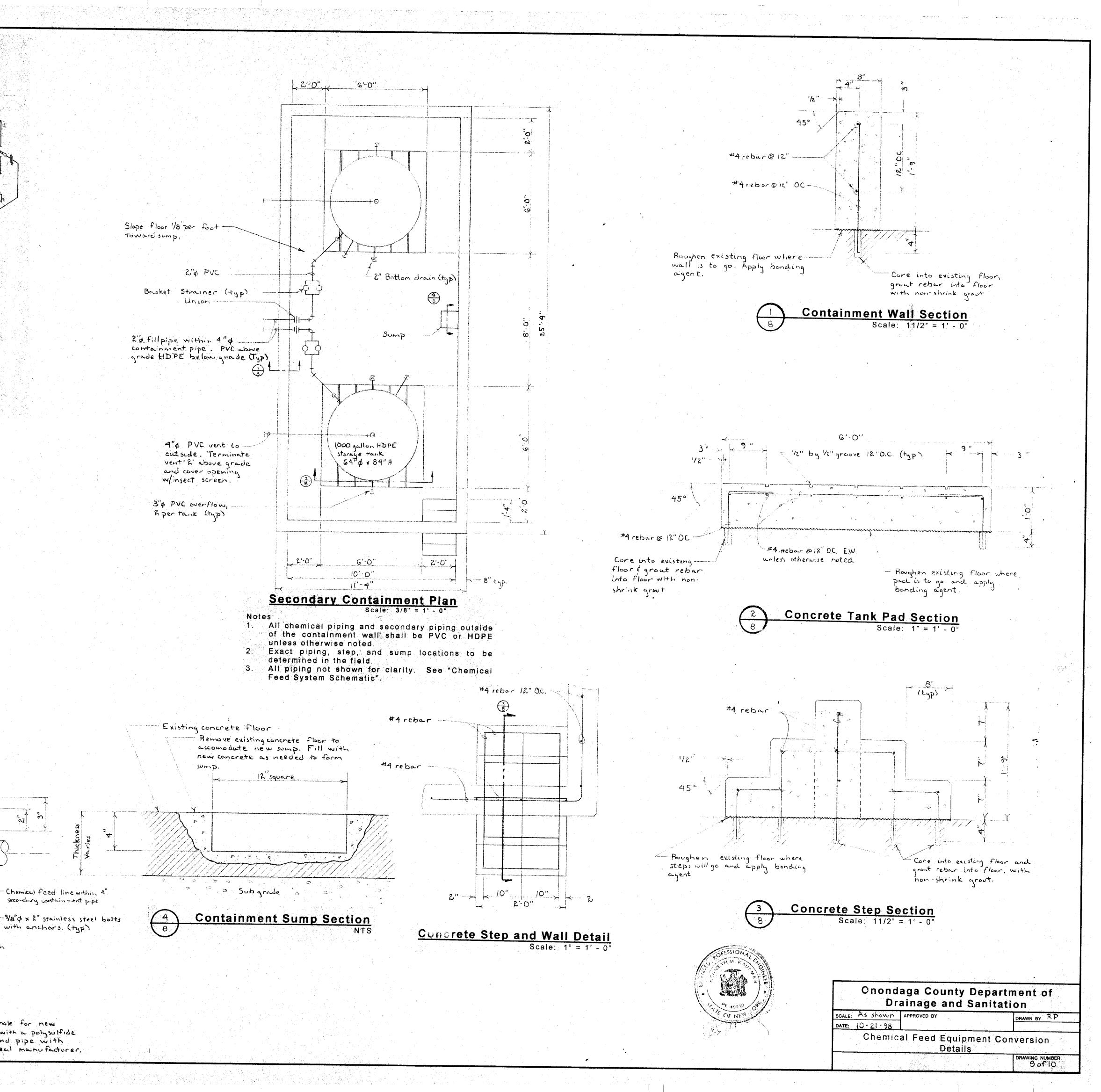
. 1/4" thk steel escutcheon. Provide opening for steel sleeve, and 1/2"\$ bolt holes evenly spaced.

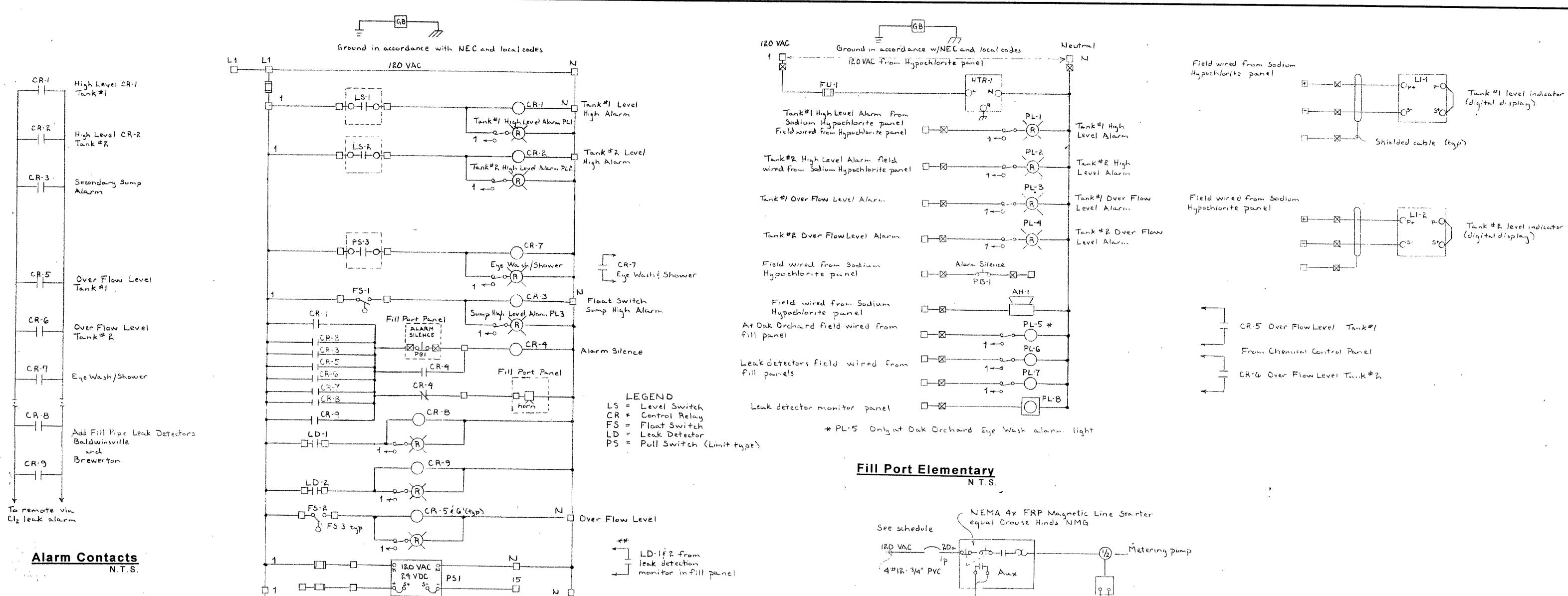
NO. 1854-24X3

Existing block wall Note: Paint escutcheon plates to match existing wall surface .

Typical Wall Penetration NTS

Note: For penetrations in new or existing concrete core a smooth hole for new pipe. Pipes less than R" diameter caulk around pipe gas tight with a polysulfide caulk. Pipes greater than or equal to R" diameter seal around pipe with an elastic-mechanical seal. Coordinate hole size with seal manufacturer.





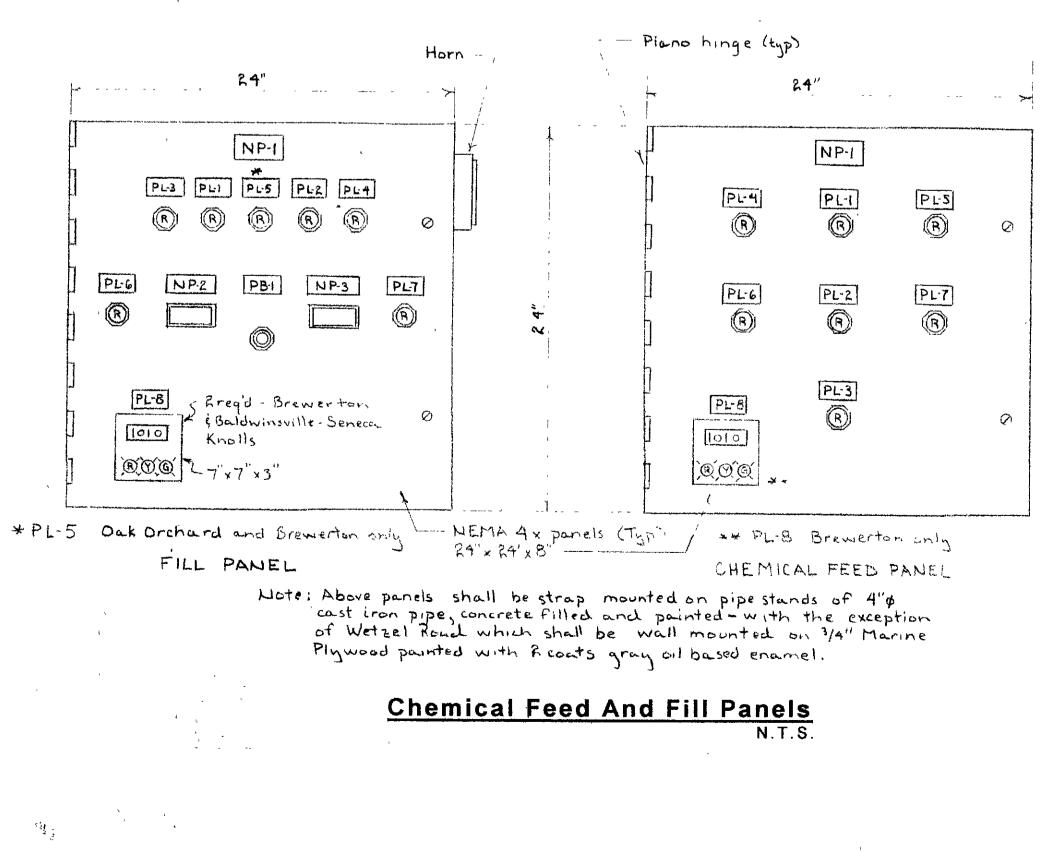
Chemical Control Elementary

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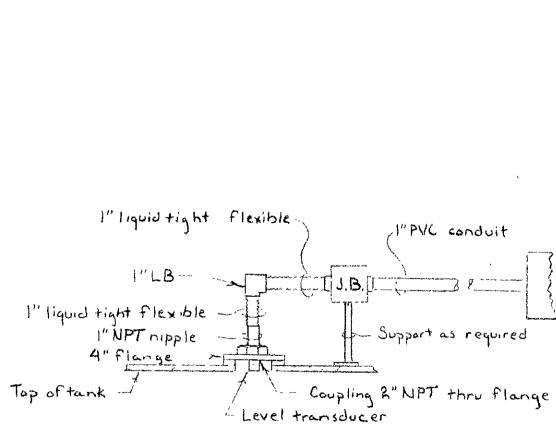
FILL PANEL NAMEPLATE SCHEDULE ITEM LINE 1 LINE 2 NP-1 FILL PANEL ALARM PANEL PB-1 ALARM SILENCE NP-2 **CHEMICAL TANK 1** LEVEL (IN GALLONS) PL-1 TANK 1 HIGH LEVEL NP-3 CHEMICAL TANK 2 LEVEL (IN GALLONS) PL-2 TANK 2 HIGH LEVEL PL-3 TANK 1 OVERFLOW LEVEL PL-4 TANK 2 OVERFLOW LEVEL PL-5 * **EYE WASH** PL-6 FILL PIPE LEAK PL-7 FILL PIPE LEAK PL-8 ** LEAK DETECTION MONITOR

Oak Orchard only, PL-5 at Brewerton to read-"Sott Chemical Feed Line Loak PL-5 not used at Wetzet Road or Baldwinsville-Seneoa Knolls-

Baldwinsville - Seneca Knolls & Brewerton Fill Pipe Leak Detectors

	CHEMICAL FEED PA	
ITEM	LINE 1	LINE 2
NP-1	SODIUM HYPOCHLORITE	CONTROL PANEL
PL-1	TANK 1	HIGH LEVEL
PL-2	TANK 2	HIGH LEVEL
PL-3	SUMP	HIGH LEVEL
PL-4	TANK 1	OVERFLOW LEVEL
PL-5	TANK 2	OVERFLOW LEVEL
PL-6	FILL PIPE LEAK	مال من
PL-7	FILL PIPE LEAK	
PL-8	MONITOR PANEL	······································

Note: Leak detection fill pipes only required at Baldwinsville - Seneca Knolls and Brewerton wastewater treatment facility locations. At-Brewarton also chemical feed line teak detection



3 #12 - 3/4 " PVC ----

Chemical Storage Tank Level Transmitter

Note: All conduits and fittings shall be Schedule 80 PVC with ground which may not be scheduled. Install per latest NEC.

3/4" 3 # 12 Power supply and provisions for 4-20 ma remote stroke control

Metering Pump One Line Diagram NTS

Controller

NT.S.

11

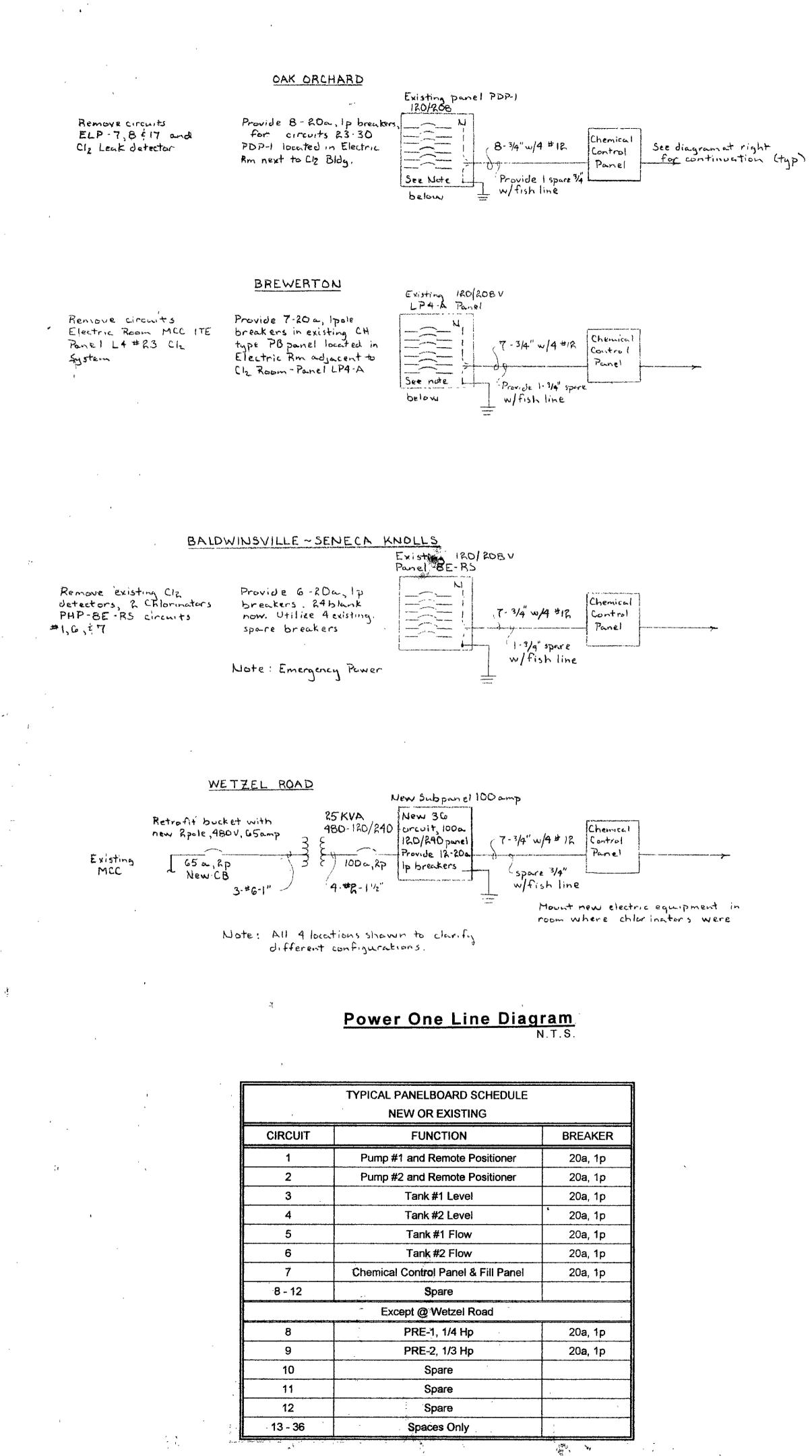
GENERAL NOTES 1. Level and Flow signal cables shall be equal to Belden twisted pair shielded,

and be furnished by transmitter manufacturer to the contractor for installation, 2. This contract includes 4 locations. Panels shown

are typical, slight variations are shown Locations: Buildwinsville Seneca Knolls Brewler Tur Oak Orenard

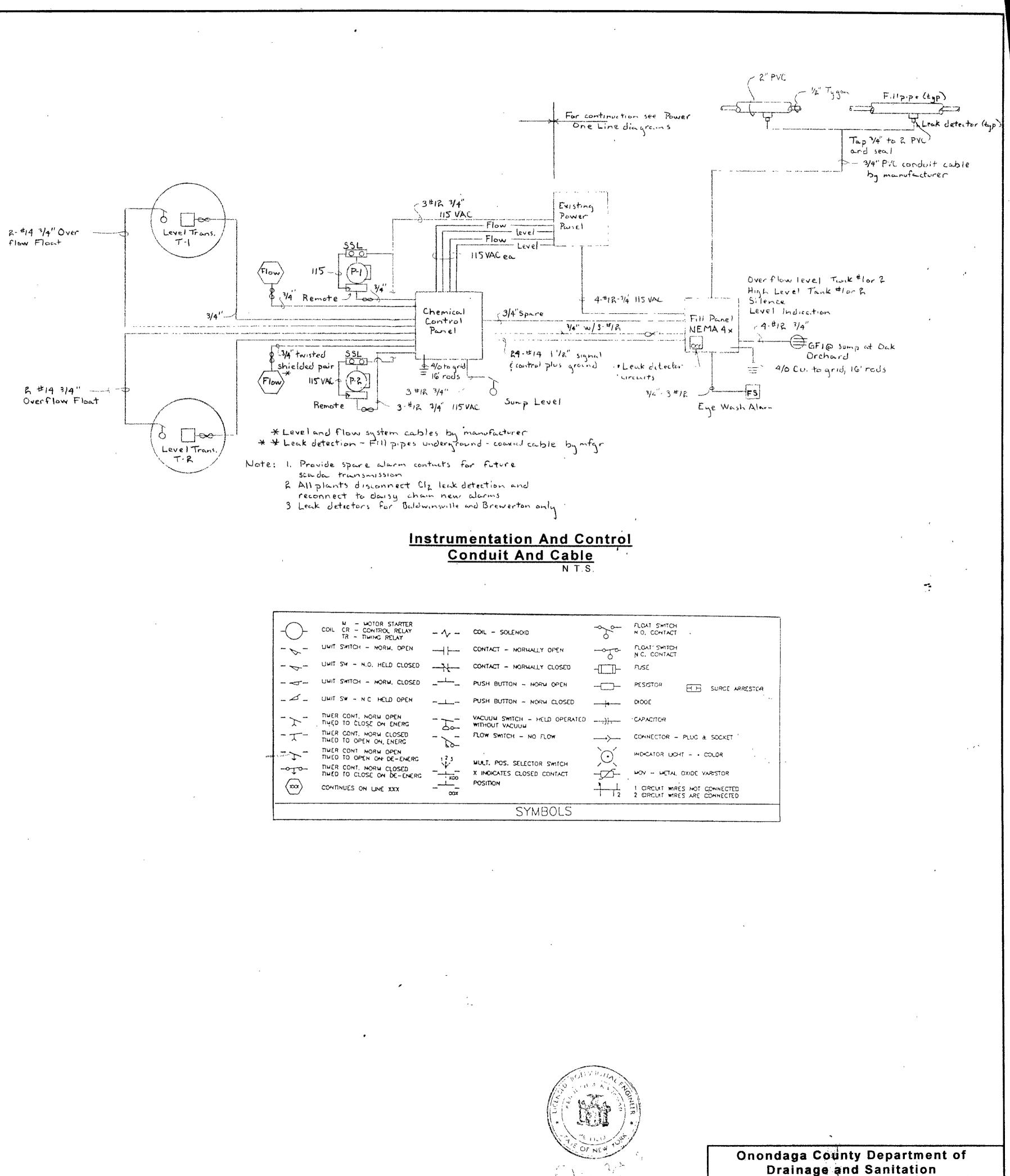
Wetzel Roman

. . Onondaga County Contents Drainage and Sank SCALE. NTS APPROVED BY DRAWN BY RP DATE. 11-4-98 Chemical Feed Equipment Conversion Electrical DRAWING NUMBER 9 of 10



NATIONAL PRINTMET NO. 1854-24X34

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	Chemi	cal Feed Equipment C	conversion
		Electrical	
¢			DRAWING NUMBER

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RECORD DRAWINGS CHEMICAL STORAGE AND FEED FACILITIES AT **BALDWINSVILLE-SENECA KNOLLS, BREWERTON,** WETZEL ROAD, AND **Baldwinsville-Seneca Knolls BURNET AVENUE** Site Location

PROJECT NO. 587346

CONTRACT NO. 4A GENERAL CONTRACT NO. 4B ELECTRICAL CONTRACT NO. 4C HEATING AND VENTILATION CONTRACT NO. 4D PLUMBING

COUNTY OF ONONDAGA DEPARTMENT OF DRAINAGE AND SANITATION SYRACUSE, NEW YORK

> RECORD DRAWINGS TO THEBESTOFOURKNOWLEDGE, ORMATION AND BELIEF, THESERECORE BLASLAND, BOUCK & LEE, INC.

MAY 2001

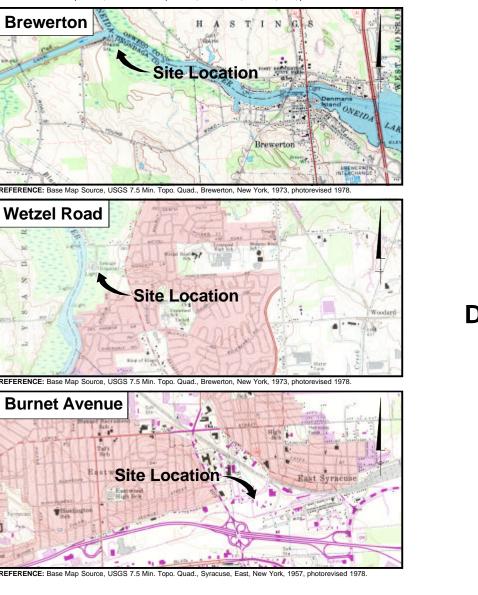
APPROVED BY ONONDAGA COUNTY

DEPARTMENT OF DRAINAGE AND SANITATION

RICHARD L. ELANDER, PE, COMMISSIONER



DATE



LOCATION MAPS

PROX. SCALE: 1" = 2000 FEE

EFERENCE: Base Map Source, USGS 7.5 Min, Topo, Quad., Baldwinsville, New York, 1973, photorevised 197

5/01 SYR-D54-LBR, DJH

INDEX TO DRAWINGS

TITLE SHEET

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- G-2 WETZEL ROAD WPCP - DEMOLITION PLAN AND SECTIONS BALDWINSVILLE-SENECA KNOLLS WPCP - OUTSIDE PIPING AND PARTIAL SITE PLAN G-3
- BALDWINSVILLE-SENECA KNOLLS WPCP DEMOLITION PLAN AND ELEVATION
- G-5 BREWERTON WPCP - OUTSIDE PIPING AND PARTIAL SITE PLAN
- BREWERTON WPCP DEMOLITION PLAN AND SECTION G-6
- BREWERTON WPCP DEMOLITION PLAN
- G-8 BURNET AVENUE CHEMICAL FEED STATION - OUTSIDE PIPING AND PARTIAL SITE PLAN
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- A-2 BURNET AVE CHEMICAL FEED STATION - PLANS AND SECTIONS
- A-3 BURNET AVE CHEMICAL FEED STATION - FLEVATION AND SECTION Δ-4
- BURNET AVE CHEMICAL FEED STATION MISCELLANEOUS DETAILS

STRUCTURA

- BURNET AVE CHEMICAL FEED STATION FOUNDATION PLAN AND SECTIONS
- BURNET AVE CHEMICAL FEED STATION TRANSFER STATION AND ROOF FRAMING PLANS
- BURNET AVE CHEMICAL FEED STATION DETAILS AND SECTIONS BREWERTON WPCP STRUCTURAL PLAN AND SECTIONS S-4
- S-5 BALDWINSVILLE-SENECA KNOLLS WPCP - ROOF PLAN, SECTION AND DETAILS
- TRANSFER STATION PLANS AND SECTIONS
- S-6 MISCELLANEOUS DETAILS

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- M-2 BALDWINSVILLE-SENECA KNOLLS WPCP - PIPING PLAN AND SECTION
- BREWERTON WPCP PLAN, SECTION AND PARTIAL ELEVATION
- BREWERTON WPCP PLANS AND PARTIAL ELEVATION M-2
- M-5 BURNET AVE CHEMICAL FEED STATION - PIPING PLAN AND SECTIONS
- MISCELLANEOUS DETAILS M-6
- TYPICAL CHEMICAL FEED SYSTEM PROCESS SCHEMATIC
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- RD-2 BALDWINSVILLE-SENECA KNOLLS WPCP CHEMICAL FEED SYSTEM PROCESS SCHEMATIC
- RD-3 BREWERTON WPCP CHEMICAL FEED SYSTEM PROCESS SCHEMATIC
- RD-4 BURNET AVE CHEMICAL FEED STATION CHEMICAL FEED SYSTEM PROCESS SCHEMATIC

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- 1-2 WETZEL ROAD WPCP - PROCESS AND INSTRUMENTATION DIAGRAM
- BURNET AVE CHEMICAL FEED STATION PROCESS AND INSTRUMENTATION DIAGRAM 1-3
- BALDWINSVILLE-SENECA KNOLLS WPCP PROCESS AND INSTRUMENTATION DIAGRAM
- I-5 I-6 BREWERTON WPCP - PROCESS AND INSTRUMENTATION DIAGRAM
- LADDER DIAGRAMS

ELECTRICAL

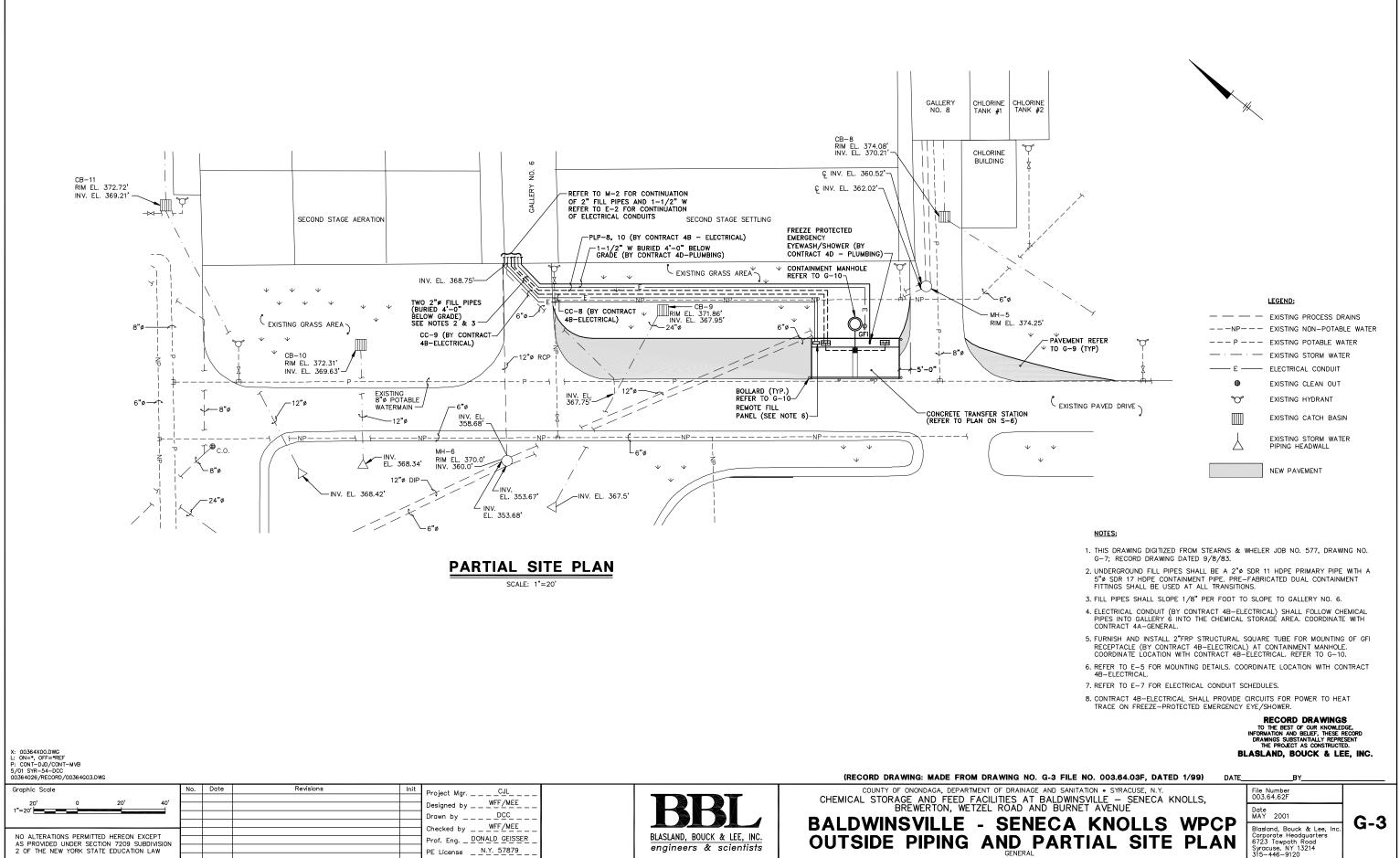
- E-1 WETZEL ROAD WPCP - LIGHTING, POWER AND INST. PLANS
- F-2 BALDWINSVILLE-SENECA KNOLLS WPCP -LIGHTING, POWER AND INST. PLANS
- BREWERTON WPCP POWER AND INST. PLANS E-3
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- E-6 PANEL SCHEDULES
- E-7 CONDUIT SCHEDULES
- F-8 ELEMENTARY DIAGRAMS
- **HEATING & VENTILATION**
- BURNET AVE CHEMICAL FEED STATION PLANS
- H-2 BURNET AVE CHEMICAL FEED STATION DETAILS AND SCHEDULES

PLUMBING

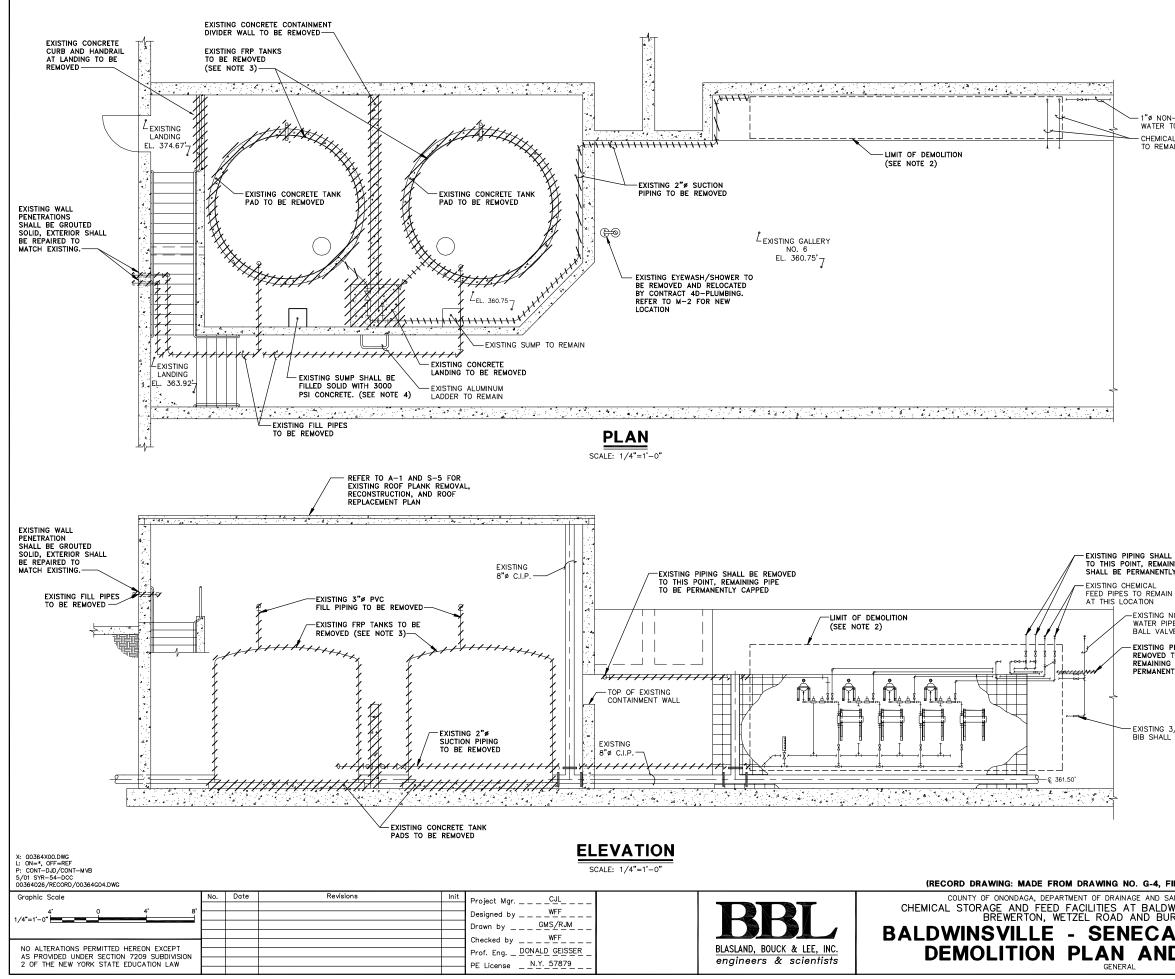
BURNET AVE CHEMICAL FEED STATION - PLAN, RISER DIAGRAM AND DETAIL

NOTE:

WORK REQUIRED BY CONTRACT NUMBERS 4A, 4B, 4C, AND 4D MAY BE SHOWN OR REFERENCED ON DRAWINGS OTHER THAN THEIR APPLICABLE DISCIPLINE.



. G-3 FILE NO. 003.64.03F, DATED 1/99) DATE_	BY	
E AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS.	File Number 003.64.62F	
	Date MAY 2001	G-3
ECA KNOLLS WPCP PARTIAL SITE PLAN	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	G-3





1"ø NON-POTABLE WATER TO REMAIN CHEMICAL FEED PIPES TO REMAIN

GENERAL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OFFSITE DISPOSAL OF ALL REMOVED ITEMS.
- 2. ALL EXISTING CHEMICAL FEED PUMPS, PIPING AND APPURTENANCES WITHIN THE LIMIT OF DEMOLITION SHALL BE REMOVED, UNLESS OTHERWISE NOTED. REFER TO E-2 FOR CONTRACT 4B-ELECTRICAL DEMOLITION REQUIREMENTS.
- 3. CONTRACTOR SHALL SUBMIT, FOR ENGINEERS REVIEW, THE PROPOSED METHOD OF TANK DEMOLITION.
- 4. EXISTING CONCRETE SURFACE SHALL BE PROPERLY PREPARED PRIOR TO PLACEMENT OF NEW CONCRETE. ABRADE SURFACE OF EXISTING CONCRETE TO EXPOSE A CLEAN SURFACE OF SOUND CONCRETE, AND APPLY BONDING COMPOUND IN ACCORDANCE WITH THE MP SECTION ENTITLED "CONCRETE".

- EXISTING PIPING SHALL BE REMOVED TO THIS POINT, REMAINING PIPE SHALL BE PERMANENTLY CAPPED

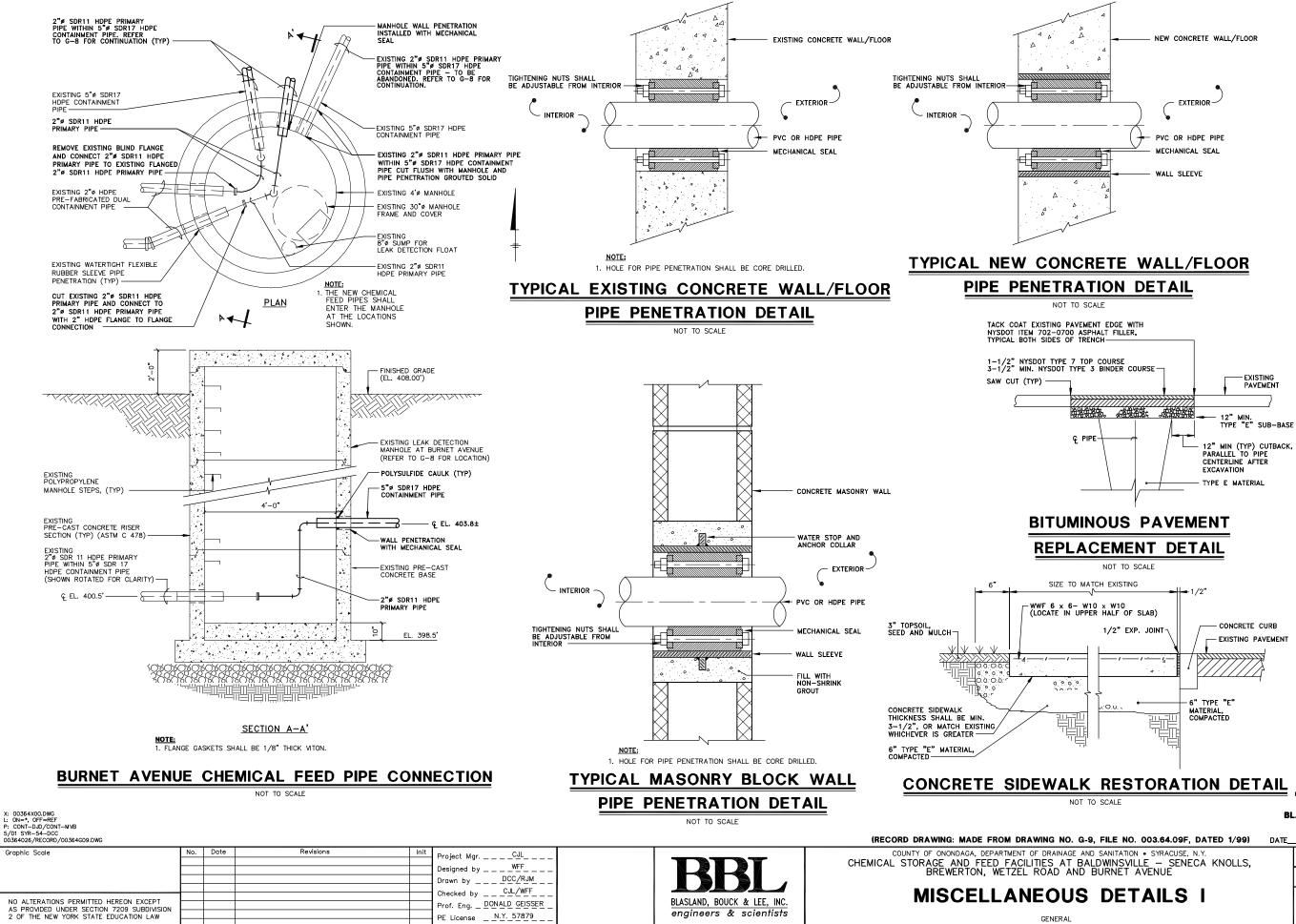
-EXISTING NON POTABLE WATER PIPE AND TWO BALL VALVES TO REMAIN

- EXISTING PIPING SHALL BE REMOVED TO THIS POINT, REMAINING PIPE SHALL BE PERMANENTLY CAPPED

-EXISTING 3/4"Ø HOSE BIB SHALL REMAIN

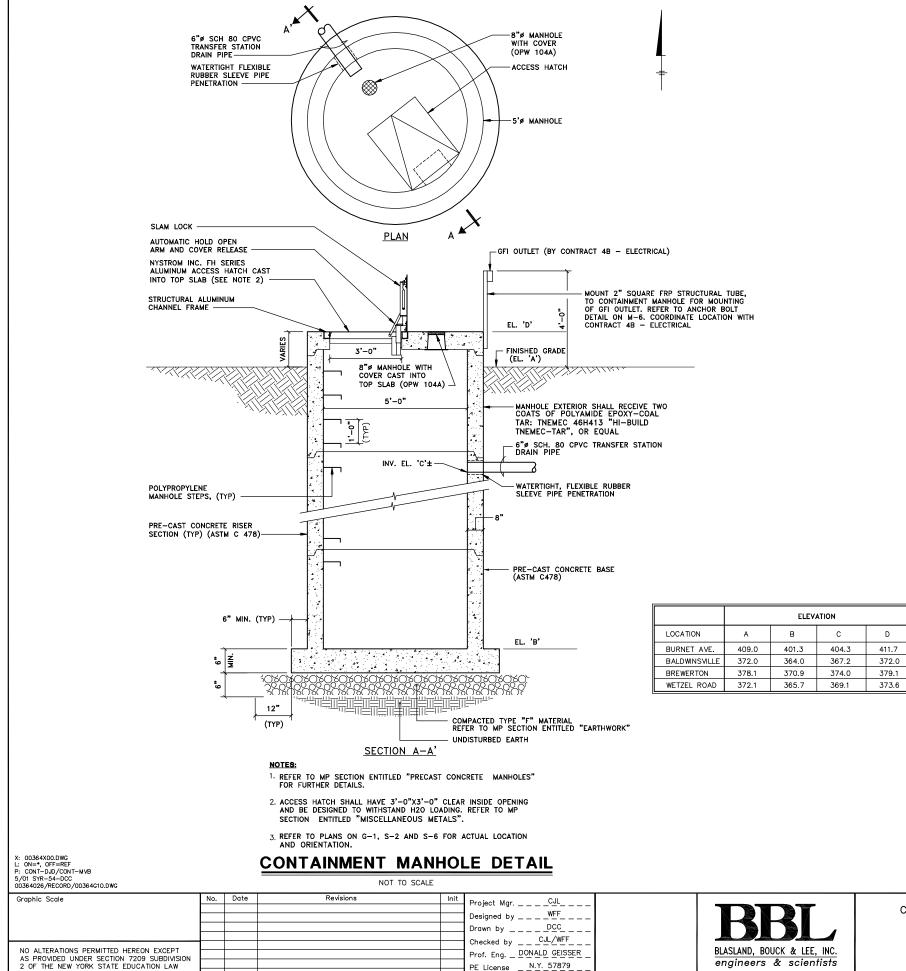
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AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS.	File Number 003.64.63F	
ID BURNET AVENUE	Date MAY 2001	G-4
AND ELEVATION	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	G-4



RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, NFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED. BLASLAND, BOUCK & LEE, INC.

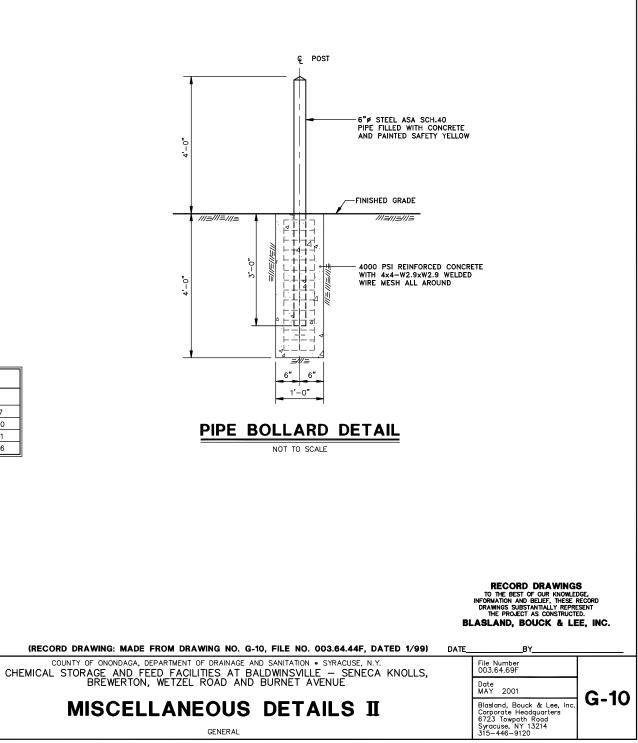
G-9, FILE NO. 003.64.09F, DATED 1/99)	DATE_	BY	
E AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS,		File Number 003.64.68F	
ND BURNET AVENUE		Date MAY 2001	G-9
S DETAILS I		Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	G-9

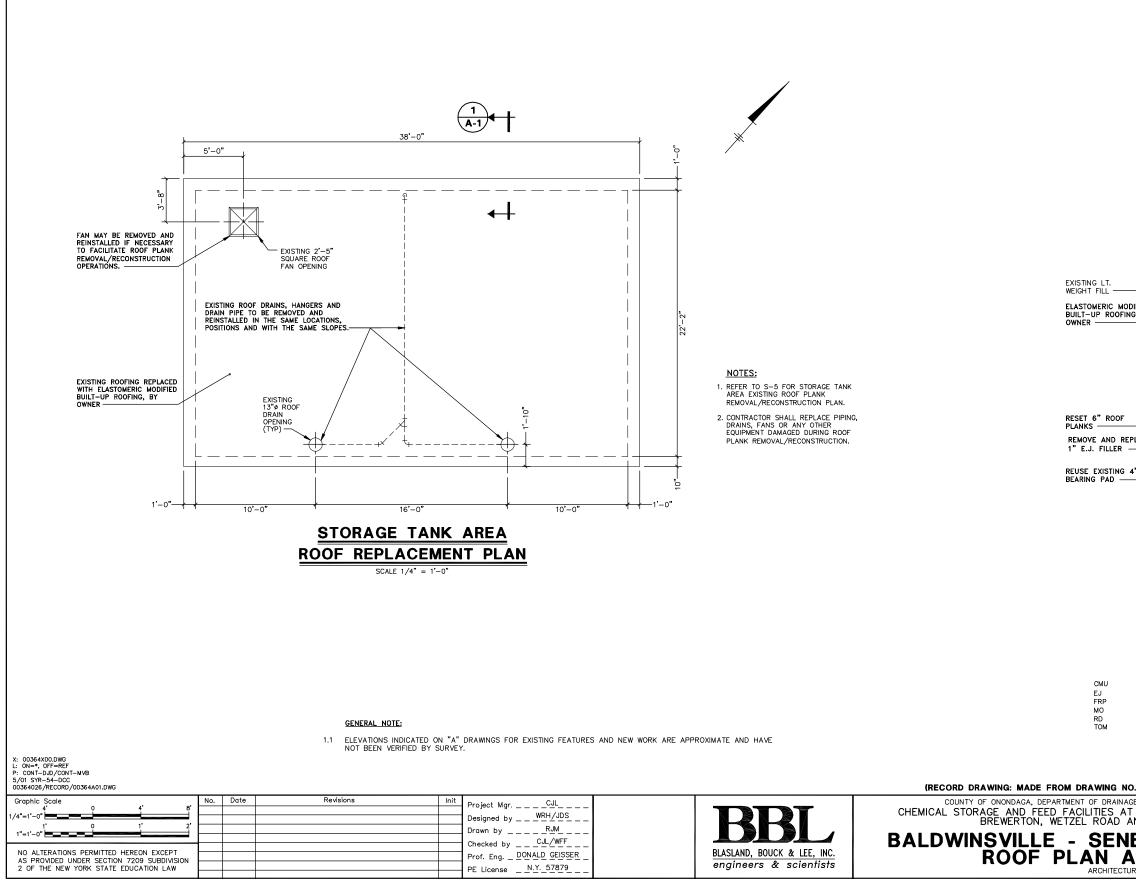


PE License ____N.Y._57879_

MISCELLANEOUS DETAILS II

GENERAL

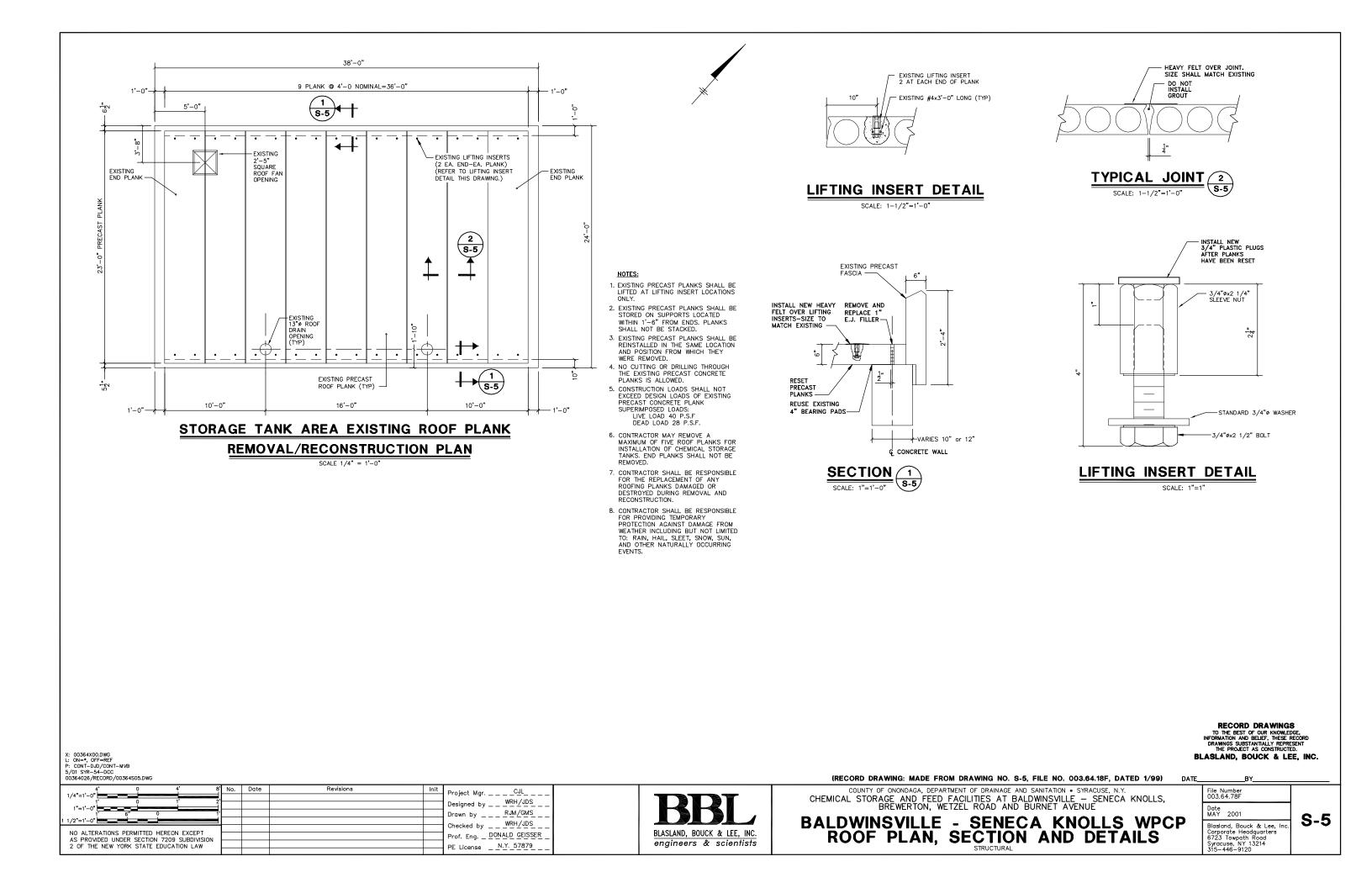


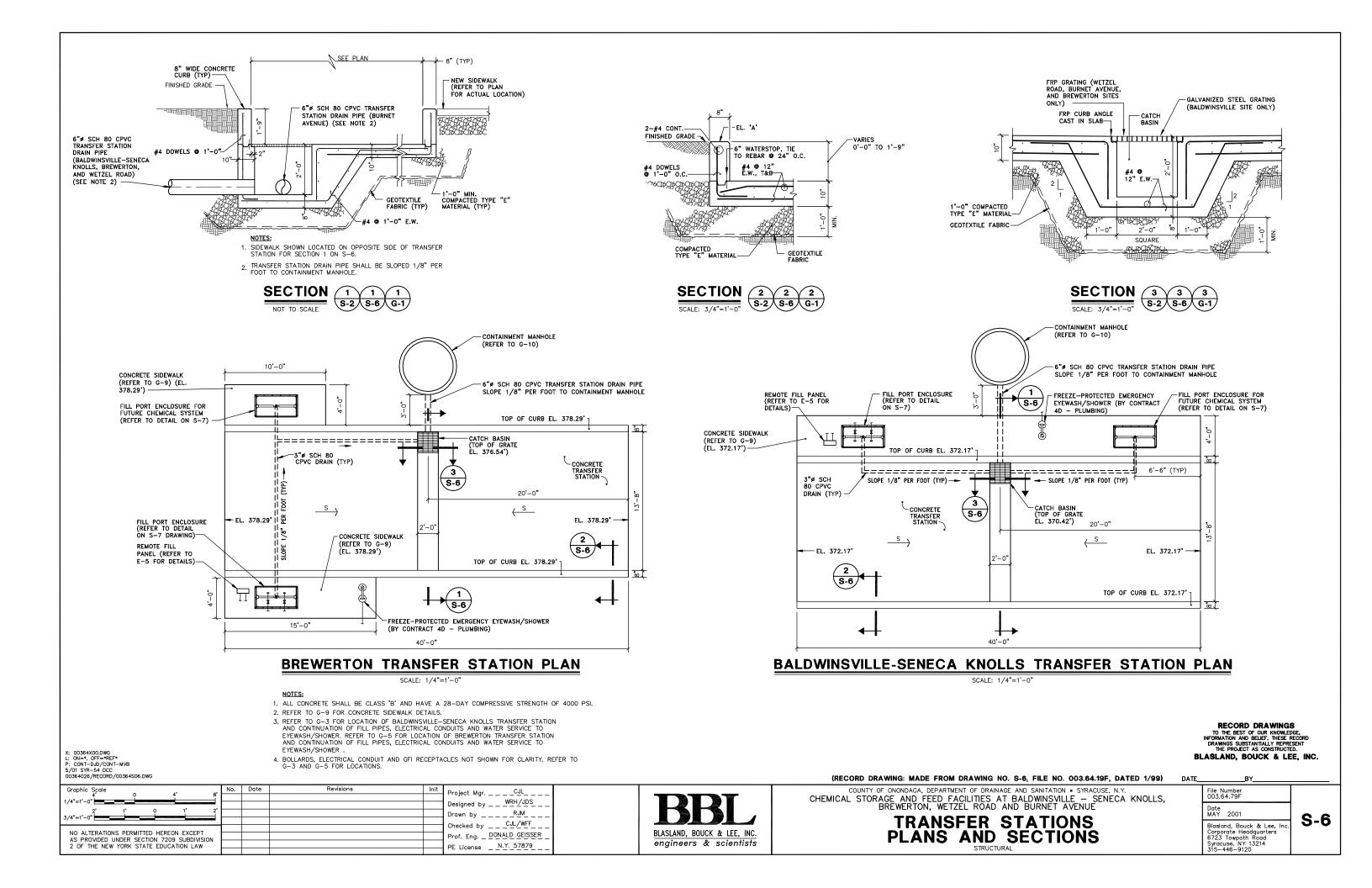


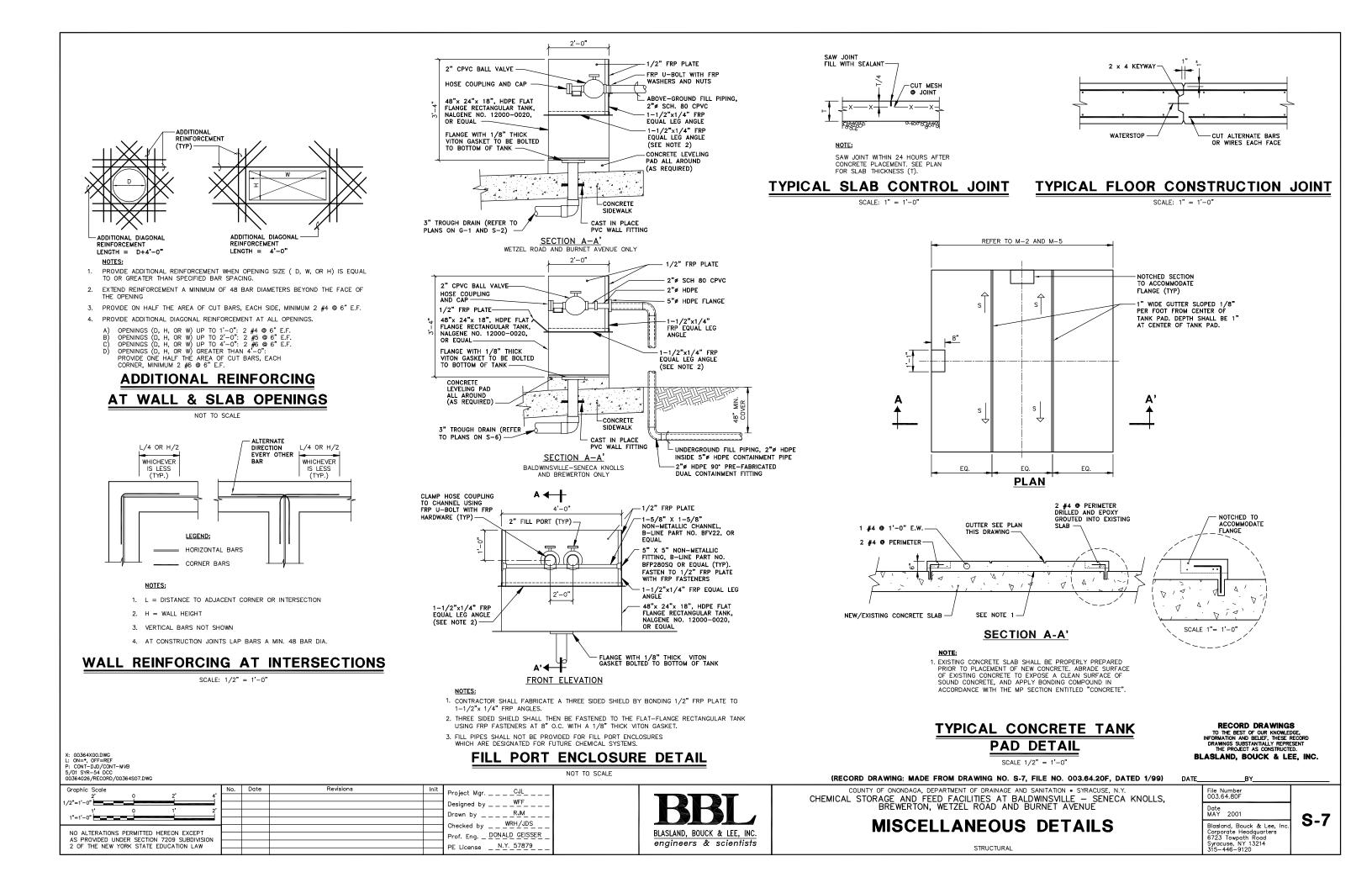
EXISTING PRE CA FASCIA PANEL CONCRETE WALL SECTION SCALE: 1"=1'-0"	ιST
	RECORD DRAWINGS TO THE BEST OF OUR (NOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED. LASLAND, BOUCK & LEE, INC.
D. A-1, FILE NO. 003.64.10F, DATED 1/99) DATE_ BE AND SANITATION • SYRACUSE, N.Y.	BY File Number
BALDWINSVILLE – SENECA KNOLLS, ND BURNET AVENUE	003.64.70F Date MAY 2001 Blasland, Bouck & Lee, Inc.
	Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

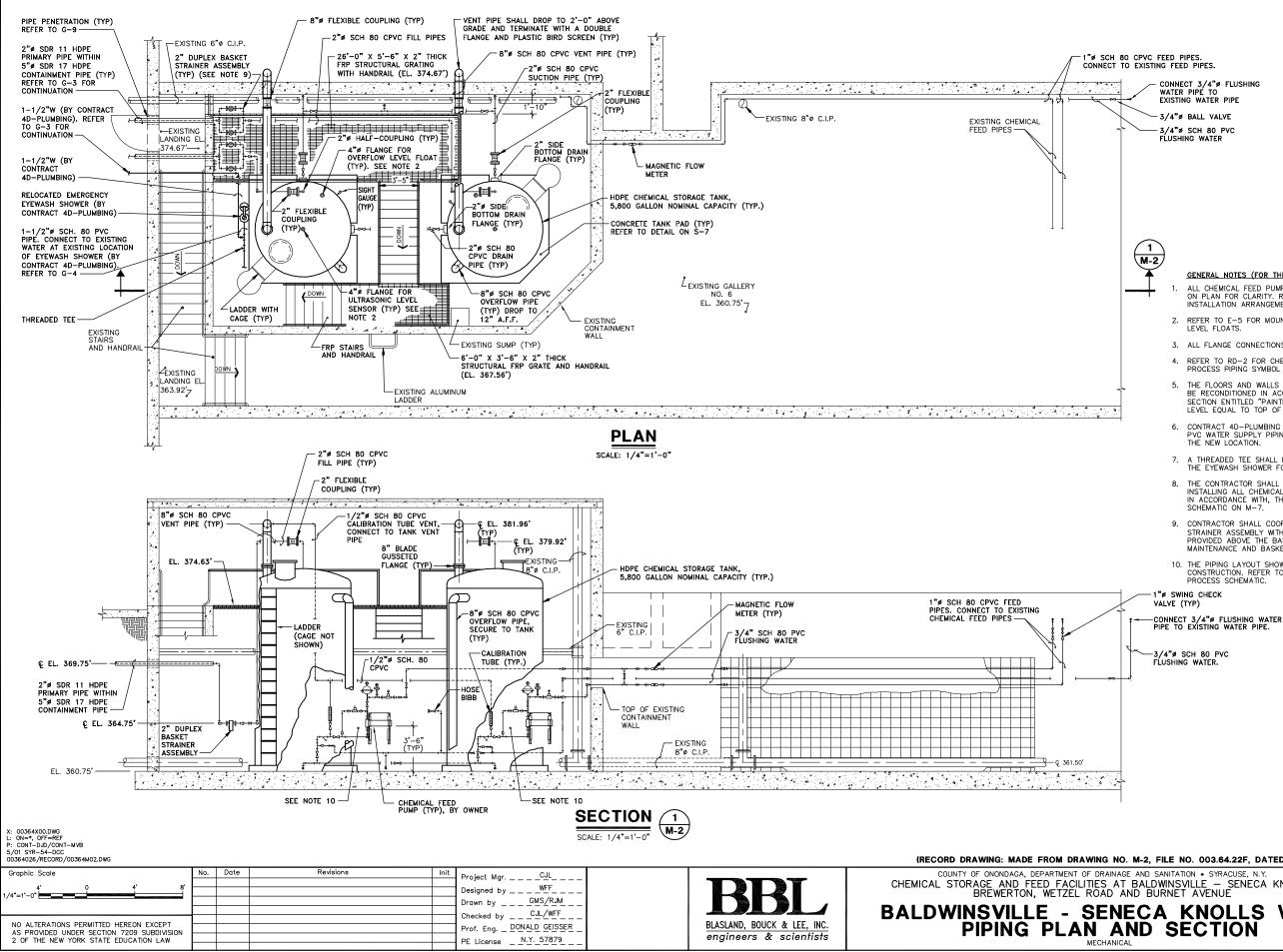
– EXISTING COUNTER FLASH

- EXISTING REGLET









)	CPVC	FEE	D	PIP	ES.	
2	EXIST	NG	FE	ED	PIPE	s.

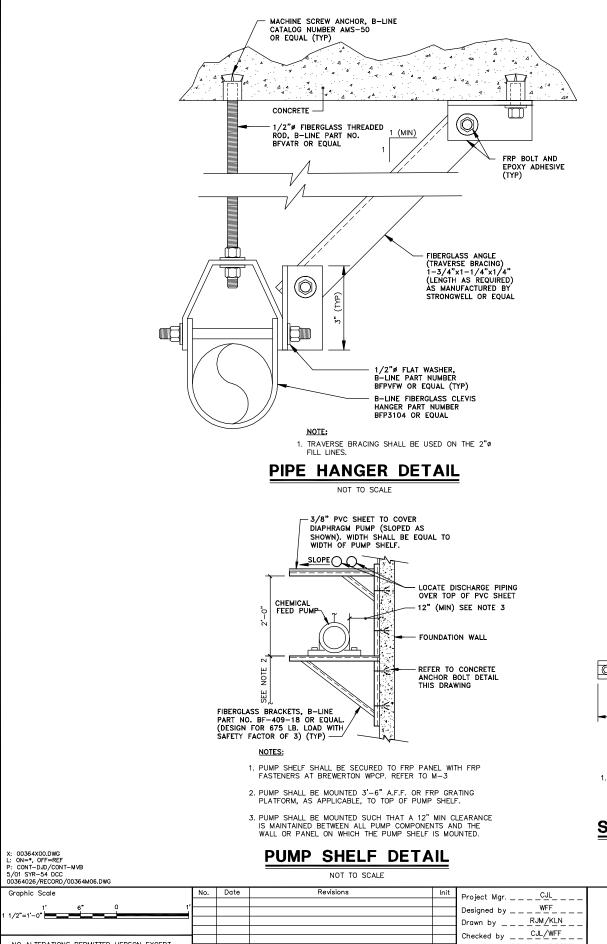
(1)	
M-2	

GENERAL NOTES (FOR THIS DRAWING):

- 1. ALL CHEMICAL FEED PUMPS, PIPING AND APPURTENANCES NOT SHOWN ON PLAN FOR CLARITY. REFER TO SECTION, THIS DRAWING, FOR INSTALLATION ARRANGEMENTS AND DETAILS.
- REFER TO E-5 FOR MOUNTING DETAILS FOR LEVEL TRANSMITTERS AND LEVEL FLOATS.
- 3. ALL FLANGE CONNECTIONS SHALL RECEIVE A 1/8" THICK VITON GASKET.
- 4. REFER TO RD-2 FOR CHEMICAL FEED SYSTEM PROCESS SCHEMATIC AND PROCESS PIPING SYMBOL DEFINITIONS.
- THE FLOORS AND WALLS OF EXISTING CHEMICAL STORAGE AREA SHALL BE RECONDITIONED IN ACCORDANCE WITH SECTION 3.08.B.7 OF MP SECTION ENTITLED "PAINTING." WALLS SHALL BE RECONDITIONED TO A LEVEL EQUAL TO TOP OF THE EXISTING CONTAINMENT WALL.
- CONTRACT 4D-PLUMBING SHALL FURNISH AND INSTALL 1-1/2"Ø SCH 80 PVC WATER SUPPLY PIPING TO THE EMERGENCY EYEWASH SHOWER AT THE NEW LOCATION.
- 7. A THREADED TEE SHALL BE PROVIDED IN THE 1-1/2" WATER SUPPLY TO THE EYEWASH SHOWER FOR THE INSTALLATION OF A FLOW SWITCH.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLING ALL CHEMICAL FEED SYSTEM COMPONENTS, SHOWN ON, AND IN ACCORDANCE WITH, THE TYPICAL CHEMICAL FEED SYSTEM PROCESS SCHEMATIC ON M-7.
- 9. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUPLEX BASKET STRAINER ASSEMBLY WITH OWNER. A 12" MIN CLEARANCE SHALL BE PROVIDED ABOVE THE BASKET STRAINER ASSEMBLY TO ALLOW FOR MAINTENANCE AND BASKET REMOVAL.
- 10. THE PIPING LAYOUT SHOWN ON THIS DRAWING WAS REVISED DURING CONSTRUCTION. REFER TO DWG RD-2 FOR CHEMICAL FEED SYSTEM PROCESS SCHEMATIC.

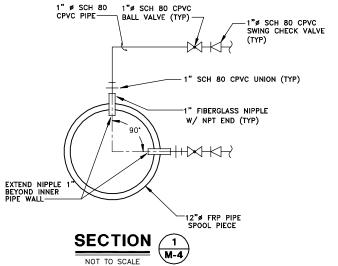
RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELLEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED. BLASLAND, BOUCK & LEE, INC.

M-2, FILE NO. 003.64.22F, DATED 1/99) DATE_	BY	
AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS.	File Number 003.64.82F	
ID BURNET AVENUE	Date MAY 2001	M-2
CA KNOLLS WPCP	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	IVI-Z

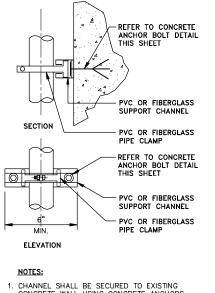


NO ALTERATIONS PERMITTED HEREON EXCEPT

AS PROVIDED UNDER SECTION 7209 SUBDIVISIO 2 OF THE NEW YORK STATE EDUCATION LAW



CONCRETE -



. CHANNEL SHALL BE SECURED TO EXISTING CONCRETE WALL USING CONCRETE ANCHORS AND NON-METALLIC FASTENERS AS INDICATED. SEE DETAIL THIS SHEET.

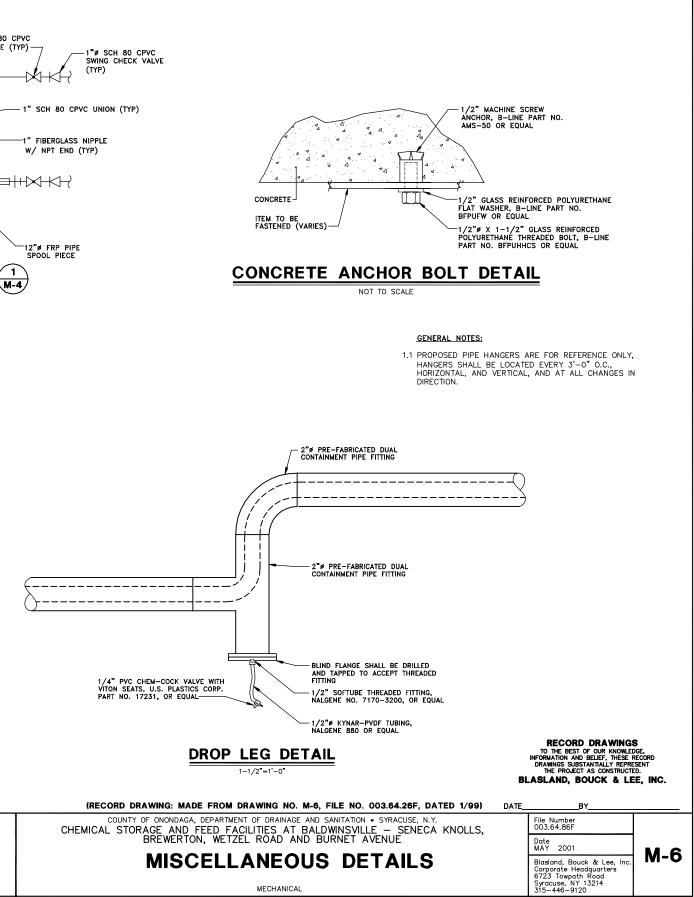
SMALL PIPE DETAIL

NOT TO SCALE

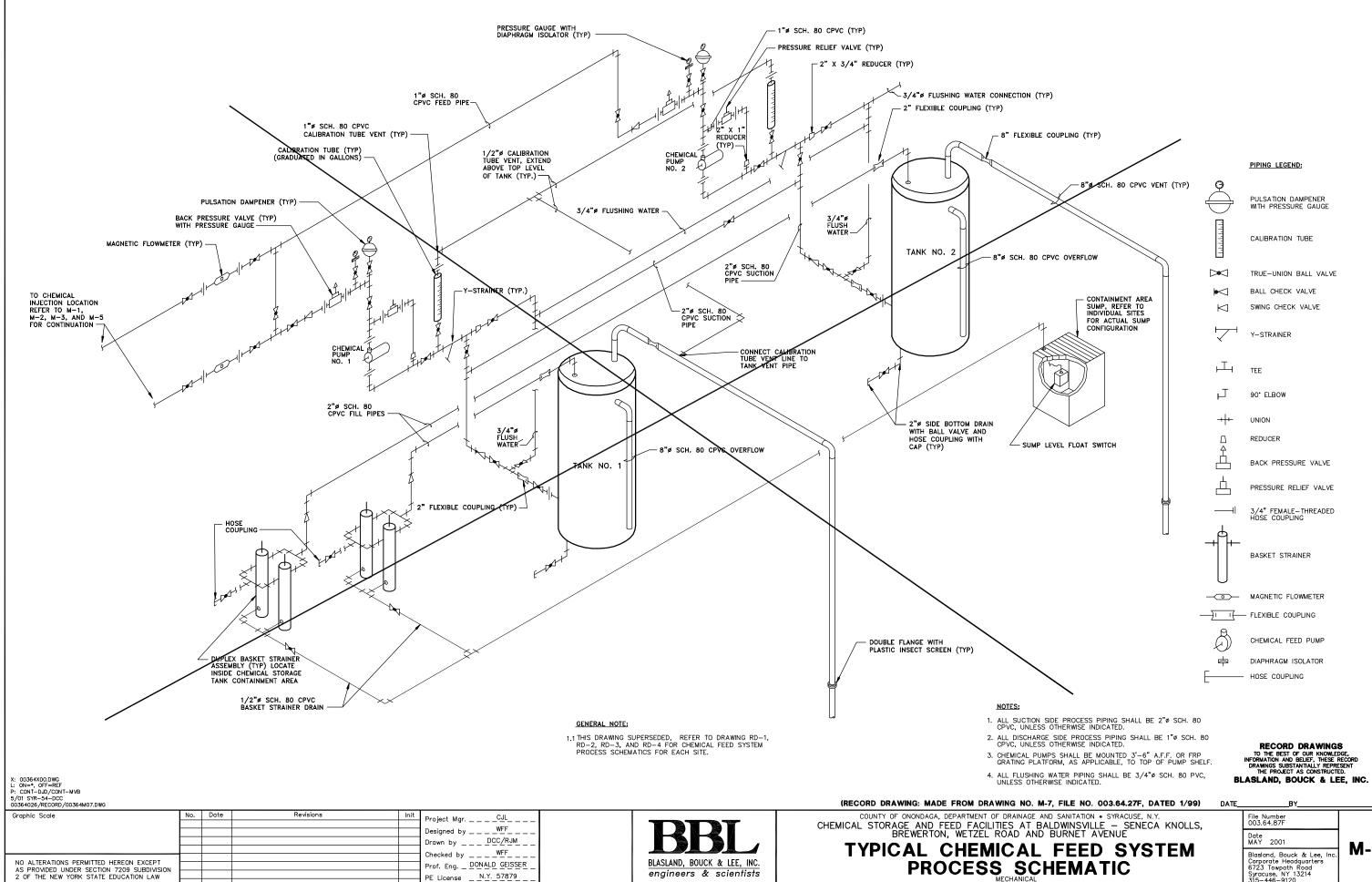
Prof. Eng. _ DONALD GEISSER

BLASLAND, BOUCK & LEE, INC.

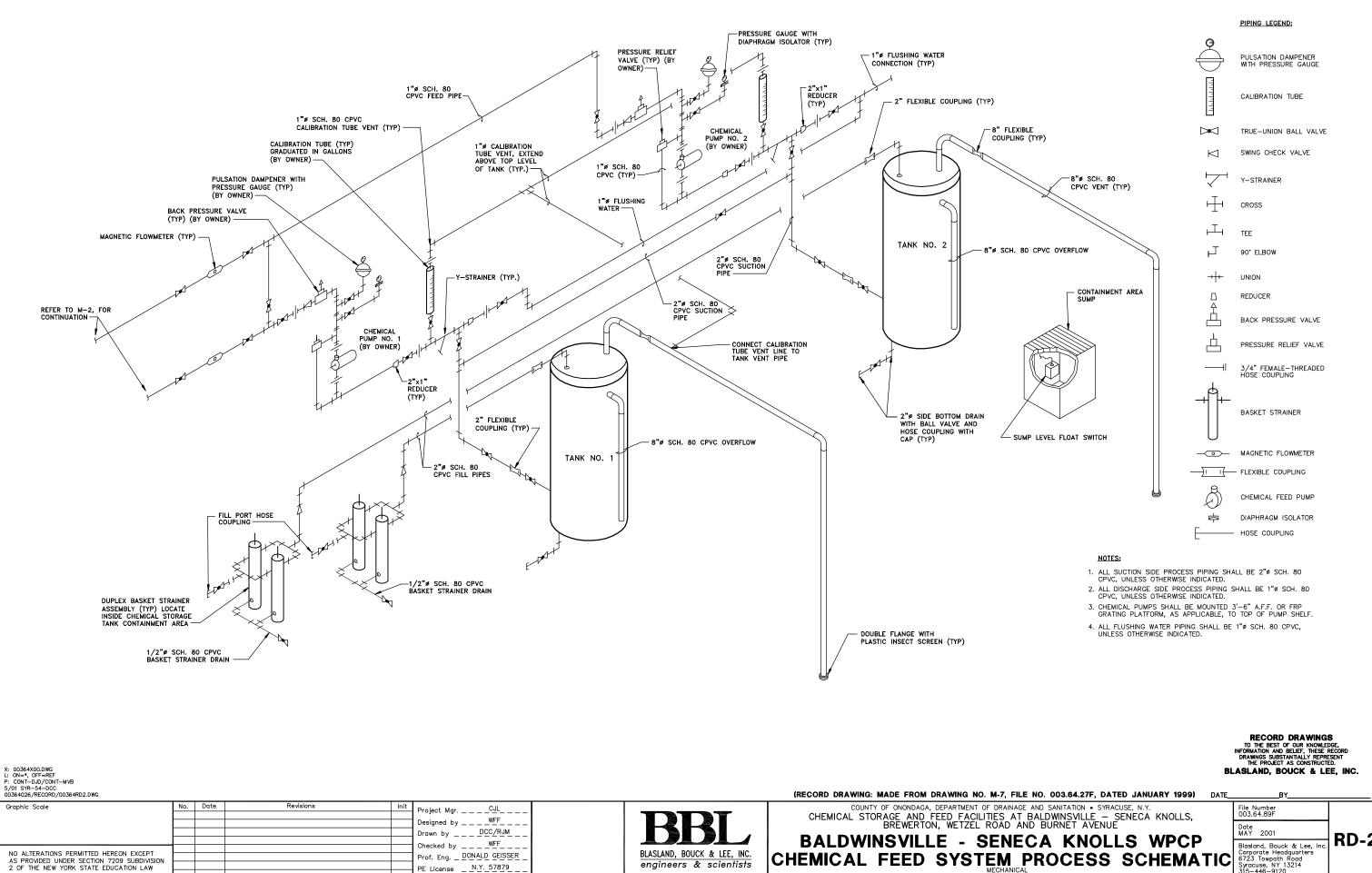
engineers & scientists



MECHANICAL

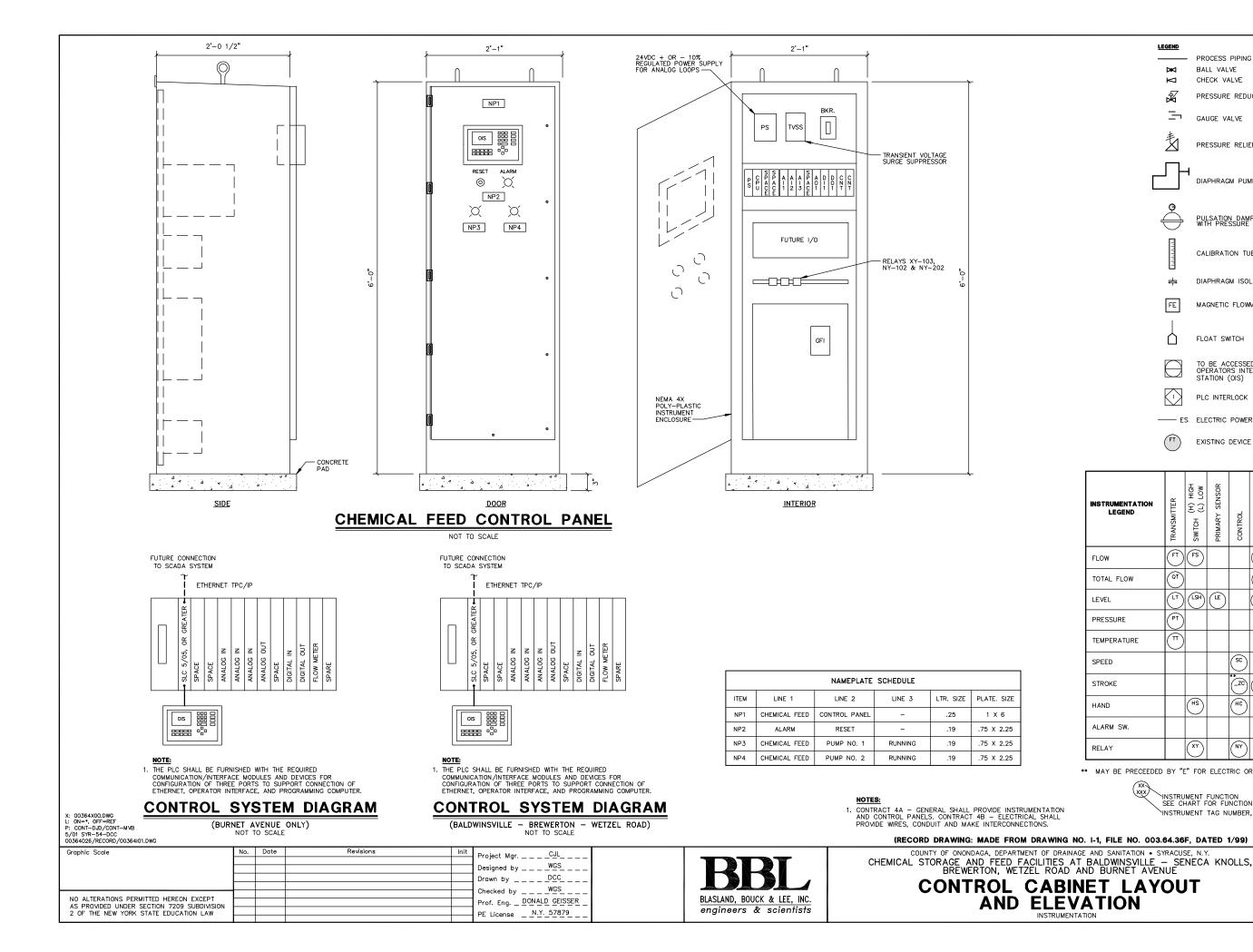


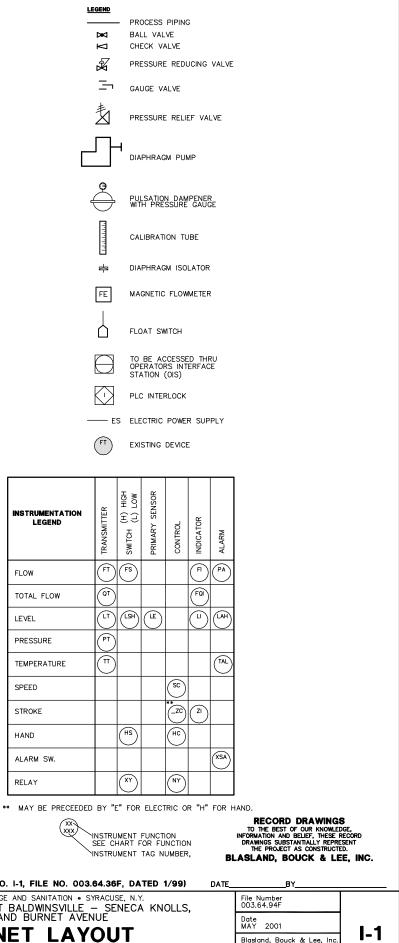
M-7, FILE NO. 003.64.27F, DATED 1/99)	DATE_	BY	
AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS,		File Number 003.64.87F	
ND BURNET AVENUE		Date MAY 2001	M-7
L FEED SYSTEM		Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	141-7



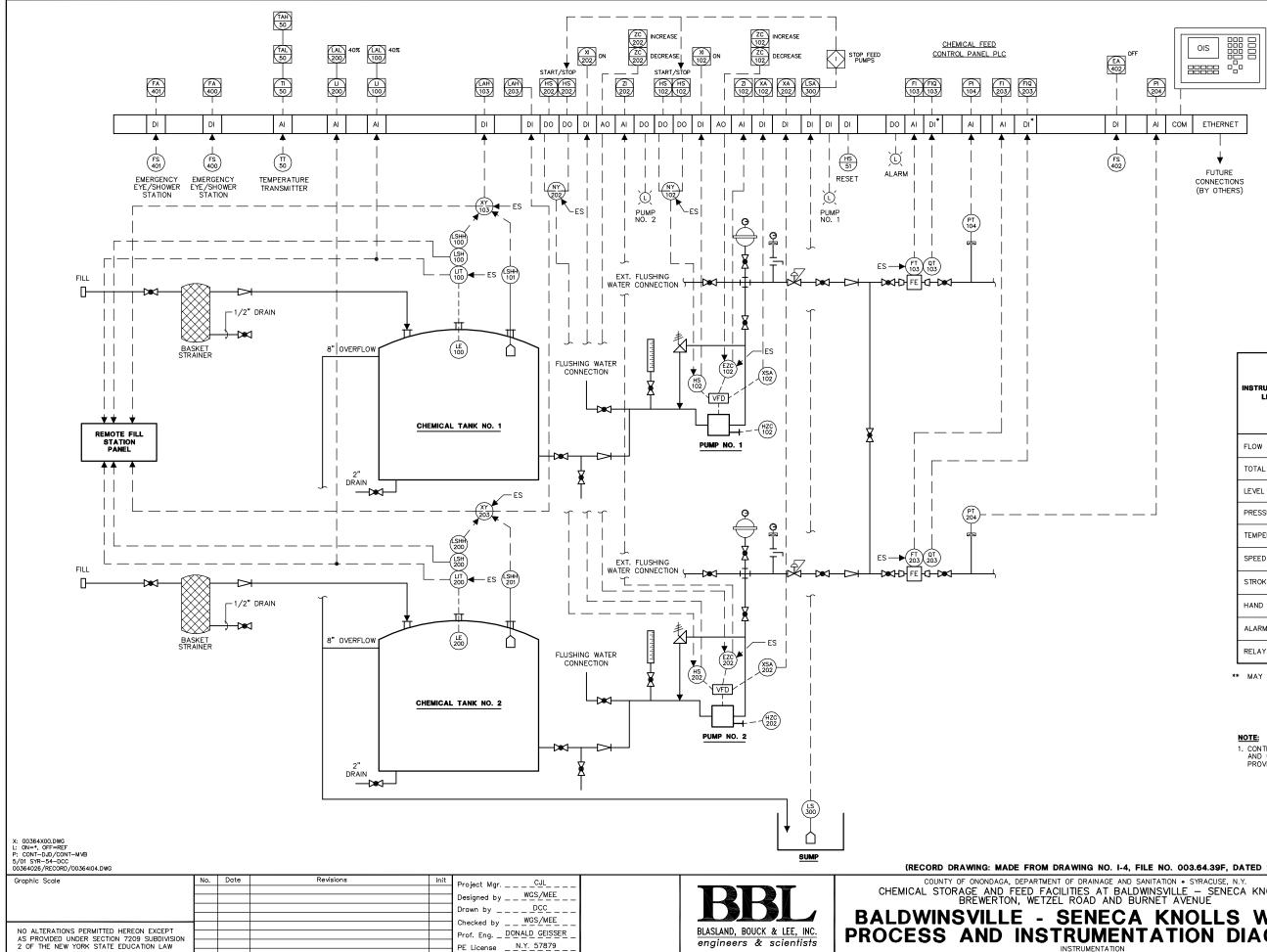
RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC

E NO. 003.64.27F, DATED JANUARY 1999) DATE_	BY	
AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS.	File Number 003.64.89F	
ND BURNET AVENUE	Date MAY 2001	RD-2
CA KNOLLS WPCP PROCESS SCHEMATIC	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	ND-2





Blasland, Bouck & Lee, Inc Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120



INSTRUMENTATION LEGEND	TRANSMITTER	SWITCH (H) HIGH (L) LOW	PRIMARY SENSOR	CONTROL	INDICATOR	ALARM
FLOW	FT	FS			FI	PA
TOTAL FLOW					FQI	
LEVEL	LT	LSH	LE		(LI)	
PRESSURE	PT					
TEMPERATURE	T					TAL
SPEED				SC		
STROKE				** _ZC	Z 1	
HAND		HS		HC		
ALARM SW.						XSA
RELAY		XY		NY		

* <u>NOTE:</u> I/O TERMINAL ON

FLOW METER MODULE

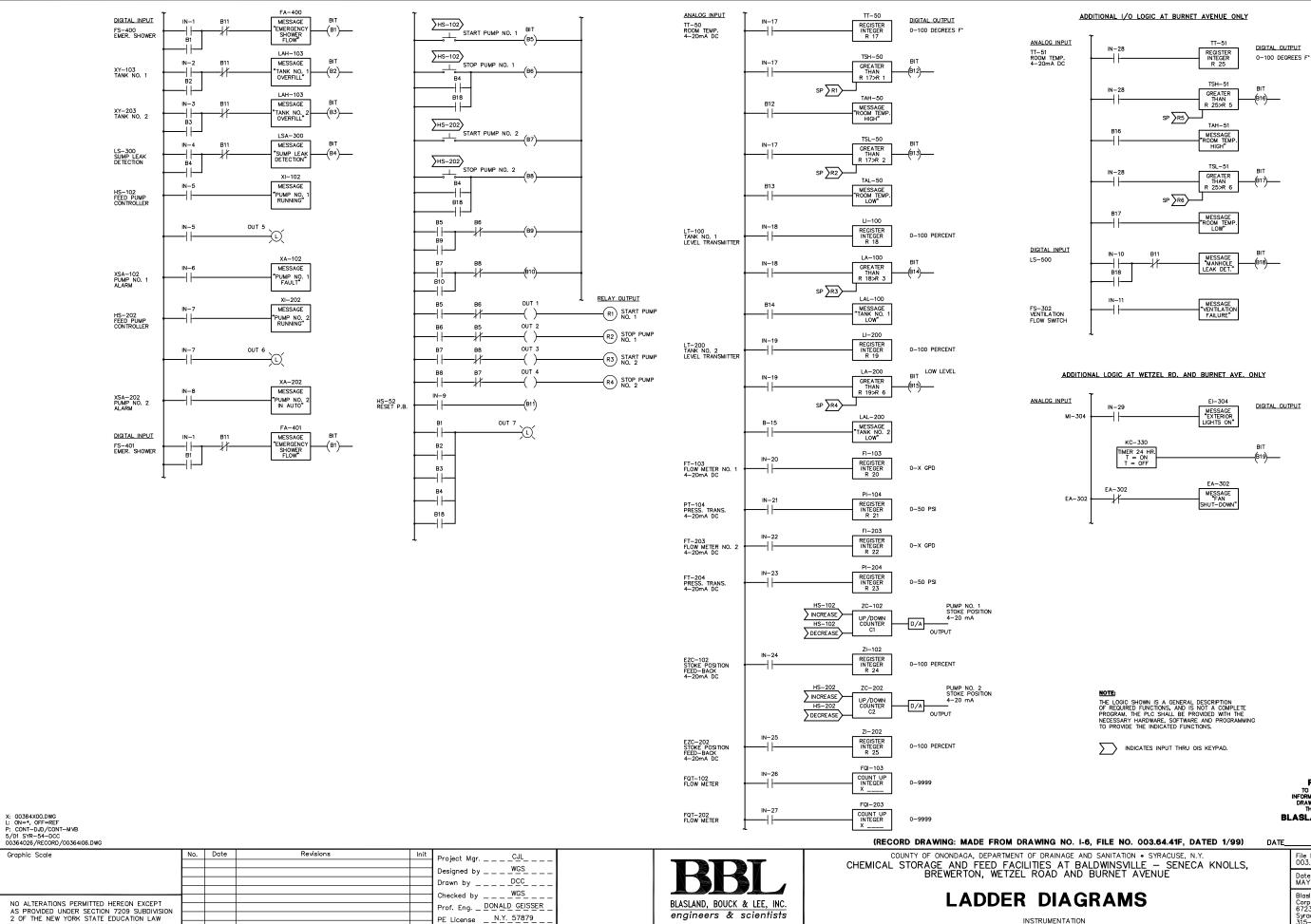
** MAY BE PRECEEDED BY "E" FOR ELECTRIC OR "H" FOR HAND.



1. CONTRACT 4A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. CONTRACT 4B - ELECTRICAL SHALL PROVIDE WIRES, CONDUIT AND MAKE INTERCONNECTIONS.

RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWING SUBSTATUALLY REPRESENT THE PROJECT AS CONSTRUCTED. BLASLAND, BOUCK & LEE, INC.

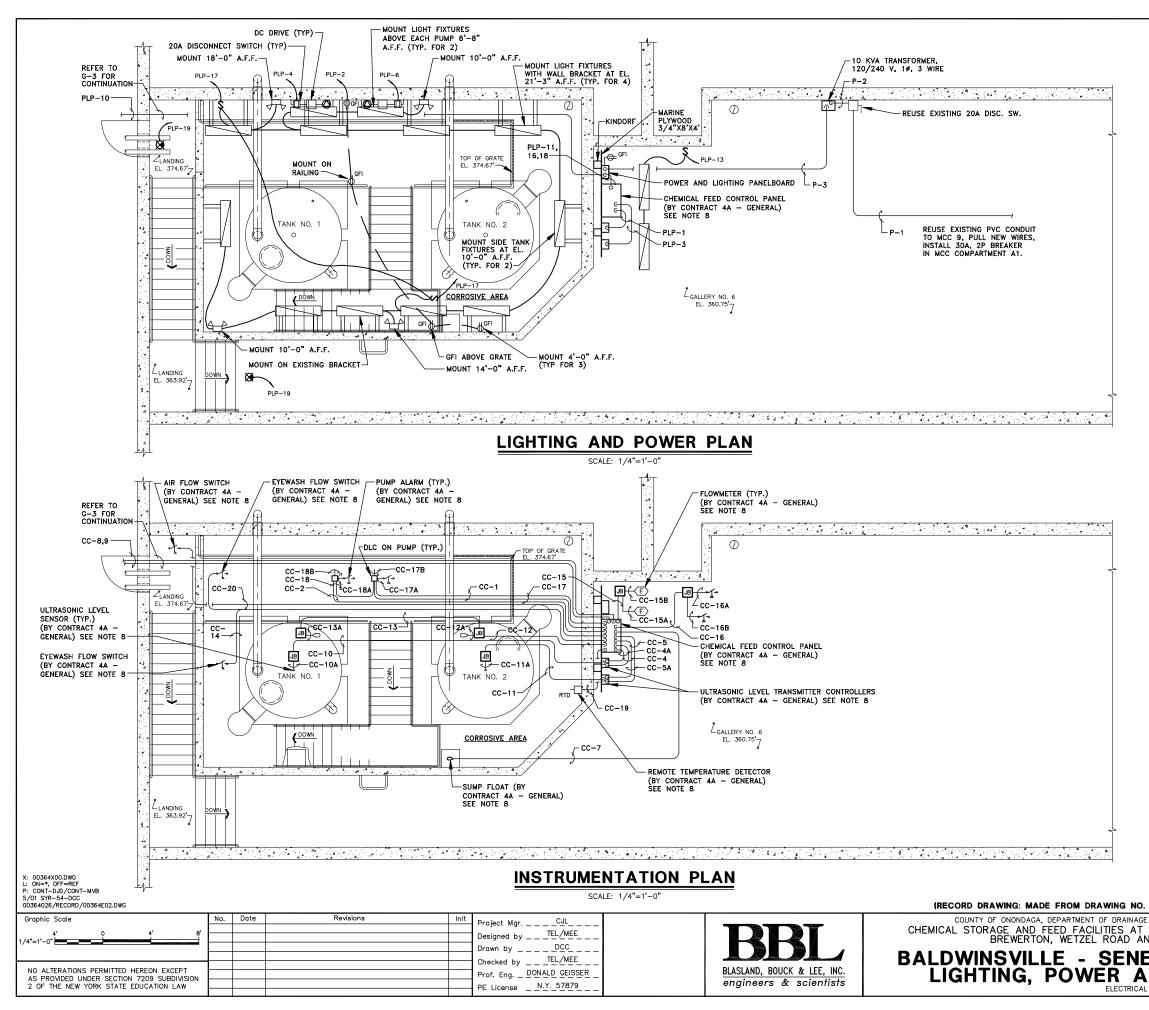
I-4, FILE NO. 003.64.39F, DATED 1/99) DATE_	BY	
AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS,	File Number 003.64.97F	
	Date MAY 2001	I-4
CA KNOLLS WPCP Entation Diagram	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	1-4



INSTRUMENTATION

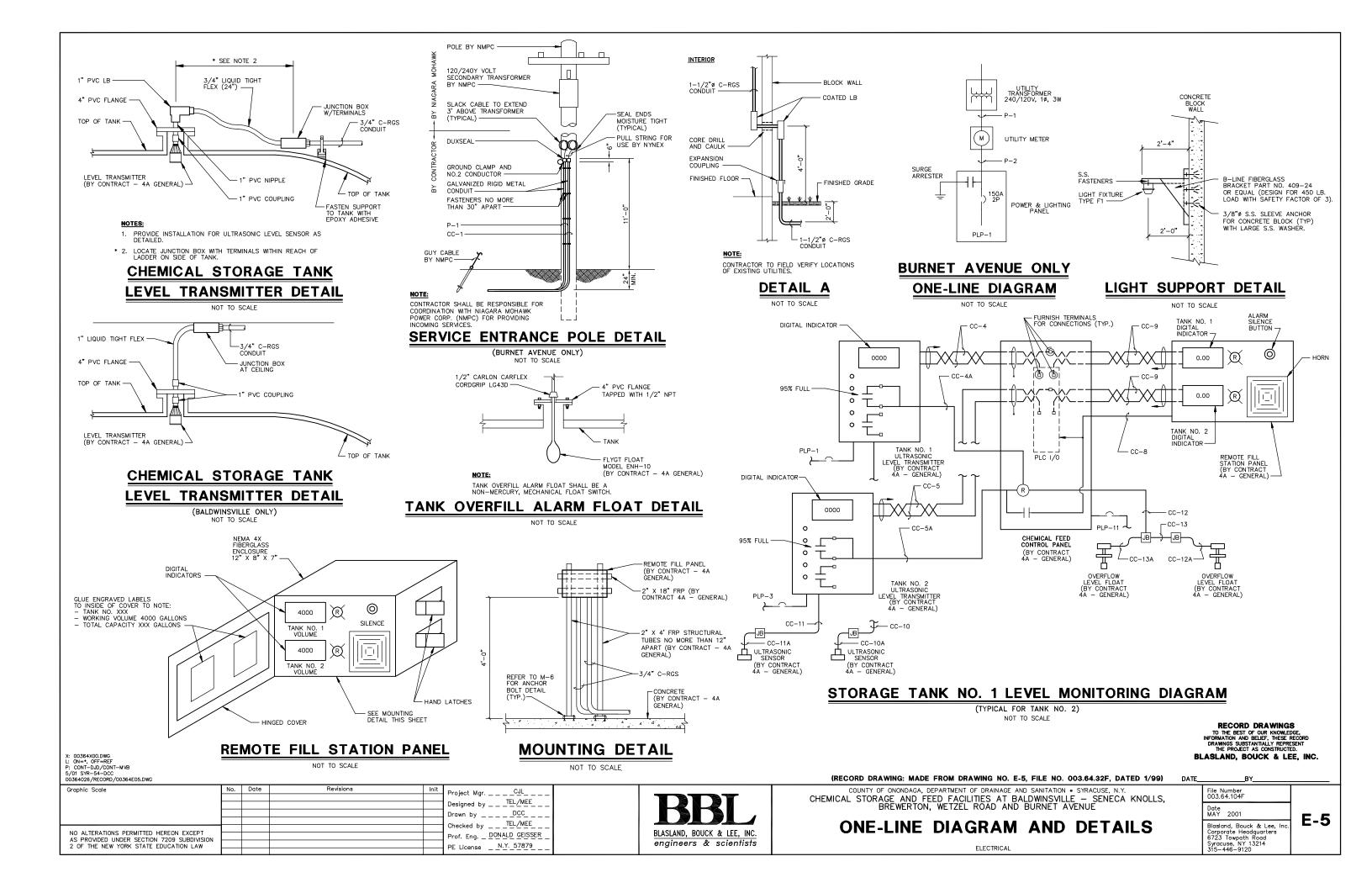
engineers & scientists PE License ____N.Y._57879___

NOTE: THE LOGIC SHOWN IS A GENERAL DESCRIPTION OF REQUIRED FUNCTIONS, AND IS NOT A COMPLETE PROGRAM. THE PLC SHALL BE PROVIDED WITH THE NECESSARY HARDWARE, SOFTWARE AND PROGRAMMING TO PROVIDE THE INDICATED FUNCTIONS. MIDICATES INPUT THRU OIS KEYPAD.	BL	RECORD DRAWING: TO THE BEST OF OUR KNOWLE INFORMATION AND BELIER THESE F DRAWINGS SUBSTANTIALLY REPRE THE PROJECT AS CONSTRUCT ASLAND, BOUCK & LE	DGE, RECORD ISENT ID.
I-6, FILE NO. 003.64.41F, DATED 1/99)	DATE_	BY	
AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE – SENECA KNOLLS,		File Number 003.64.99F	
D BURNET AVENUE		Date MAY 2001	I-6
GRAMS		Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	1-0



/			
×			
NOTER.			
NOTES: 1. CONTRACTOR SHALL REUSE EXISTING FOR POWERING NEW LOADS. PULL NE FEET TO MCC. REMOVE EXISTING STA A1 AND REPLACE WITH NEW 30A, 2F	3/4" P EW WIRES ARTER AN 9 BREAKI	VC CONDUIT TO MCC 9 5, APPROXIMATELY 600 ND BREAKER IN SECTION ER.	
2. REMOVE WIRES FROM PVC CONDUIT I PUMPS. LEAVE CONDUIT AS-IS. REM FIVE EXISTING "ALUM" FEED PUMPS. TO REFLECT NEW FEED TO CHEMICAL	LEADING OVE MCC REPLACE	TO EXISTING CHEMICAL FEED ENGRAVED NAMEPLATES OF NAMEPLATE ONLY ON SEC) N ALL TION A1
3. CONTRACTOR SHALL DELIVER OLD ST			
4. NO CONDUITS SHALL PENETRATE CHE CONTAINMENT WALL.		TURAGE AREA FLUUR UR	
5. MOUNT ALL GFI OUTLETS 4'-O" A.F.F 6. REFER TO E-6 AND E-7 FOR CONDU		PANELBOARD SCHEDULES.	
 SUPPORT ALL LIGHT FIXTURES CONDI CHEMICAL TANKS IS REMOVABLE. 	UIT, ETC.	FROM WALLS. ROOF OVER	
8. CONTRACT 4A – GENERAL SHALL PF PANELS. CONTRACT 4B – ELECTRICA MAKE INTERCONNECTIONS.	ROVIDE II AL SHALL	NSTRUMENTATION AND CONT PROVIDE WIRES, CONDUIT	ROL
9. PROVIDE CIRCUIT TO POWER HEAT TH EYE/SHOWER, PLP-8, REFER TO G-3	RACE AT 3.	FREEZE PROTECTED EMERG	ENCY
10. REFER TO SYMBOL LEGEND ON E-1.			
			-
		RECORD DRAWING TO THE BEST OF OUR KNOWLEI INFORMATION AND BELIEF, THESE DRAWINGS SUBSTANTIALLY REPRI THE PROJECT AS CONSTRUCT	DGE, RECORD
	RI	DRAWINGS SUBSTANTIALLY REPRI THE PROJECT AS CONSTRUCT ASLAND, BOUCK & LE	isent Ed. F F INC
	51	nerni, soor a Li	,
E-2, FILE NO. 003.64.29F, DATED 1/99) AND SANITATION • SYRACUSE, N.Y.	DATE_	BY File Number	
		003 64 101F	1

E-2, FILE NO. 003.64.29F, DATED 1/99) DATE_	BY	
E AND SANITATION • SYRACUSE, N.Y. BALDWINSVILLE - SENECA KNOLLS.	File Number 003.64.101F	
ND BURNET AVENUE	Date MAY 2001	E-2
ECA KNOLLS WPCP ND INST. PLANS	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	C-Z



CIRC	UIT BREAKER PANELBO	ARD –	PLP					SCHEDULE			
LOCAT			BURNET	AVE, SC	олтн ми	ALL, ELE	C. RM.	FEED FROM		UTILITY	
	BUS RATING:			225 AMPERES				120/240 VOLTS		1 PHASE, 3 WIRE	
MINIM	JM SHORTCIRCUIT:		10,000	AMPERES	•			FEEDER CABLE		3 # 1/0, 1 #6 G, 1 1/2" CRGS	
MAIN	BREAKER TRIP:		150 AM	PERES				SURFACE MTD			
ESTIM	ATED CONNECTED LOAD:		11.92	KVA							
		C/B							C/B		
CKT.		AMPS/	LOAD					LOAD	AMPS/		CKT
NO.	DESCRIPTION	POLES	TYPE	KVA	PH-A	PH-B		TYPE	POLES	DESCRIPTION	NO.
1	GAS DUCT FURNACE	20/1P	HEAT	0.180	0.900		0.720	RECPT.	20/1P	CHEM. ROOM. RECPT.	2
3	STRIP HEATER SH-1	20A	HEAT	1.500		1.500			20/1P	SPARE	4
5			HEAT	1.500	1.500				20/1P	SPARE	6
7	SUPPLY FAN SF-1 (1/3 HP)	20/1P	MOTOR	0.865		0.945	0.080	MOTOR	20/1P	EXH. FAN EF-1 (1/50 HP)	8
9	EYEWASH HEAT TRACE, GFCI	20/1P	HEAT	0.180	0.540		0.360	RECPT.	20/1P	EXTERIOR RECPT.	10
11	CHEM FEED PANEL	20/1P	INST.	0.180		0.360	0.180	RECPT.	20/1P	ELECTRIC ROOM RECPT.	12
13	ELECTRIC ROOM LTS.	20/1P	LIGHTS	0.359	0.539		0.180	RECPT.	20/1P	TELEPHONE BOARD RECPT.	14
15	EXTERIOR LIGHTS	20/1P	LIGHTS	0.525		0.705	0.180	INST.	20/1P	FLOW METER NO. 1	16
17	CHEM. STORAGE LTS.	20/1P	LIGHTS	0.849	1.029		0.180	INST.	20/1P	FLOW METER NO. 2	18
19	EXIT LIGHT	20/1P	LIGHTS	0.040		0.786	0.746	MOTOR	20A	EXH. FAN EF-2 (2 HP)	20
21	ULTRASONIC LEVEL TANK 1	20/1P	INST.	0.015	0.761		0.746	MOTOR	2P		22
23	ULTRASONIC LEVEL TANK 2	20/1P	INST.	0.015		0.015			20/1P		24
25		20/1P			0.000				20/1P		26
27		20/1P				0.000			20/1P		28
29		20/1P			0.588		0.588	MOTOR	20A	CHEM. PUMP NO. 2	30
31	CHEM. PUMP NO. 1	20A	MOTOR	0.588		1.160	0.588	MOTOR	2P		32
33	<u> </u>		MOTOR	0.588	0.588				20/1P		34
35		20/1P				0.000			20/1P		36
37		20/1P			0.000				20/1P		38
39		20/1P				0.000			20/1P		40
41		20/1P			0.000				20/1P		42
	LOAD SUMMARY			7.376	6.437	5.471	4.548				

* ALL CONDUCTORS TO BE #12 IN 3/4 INCH CONDUIT UNLESS OTHERWISE INDICATED ON ONE LINE DIAGRAM

CIR	CUIT BREAKER PANELB	OARD	- PLP	SCHEDULE								
LOCA	TION:		BREWERTON CHEMICAL			FEED BLDG		FEED FROM		10 KVA TRANSFORMER/MCC		
MAIN	BUS RATING:		100 AM	100 AMPERES				120/240 VOLTS		1 PHASE, 3 WIRE		
MINIM	UM SHORTCIRCUIT:		10,000	AMPERE	S			FEEDER CABLE		3 # 8 1 #10 G 3/4" CRGS		
MAIN	BREAKER TRIP:		50 AMP	ERES				SURFACE MTD				
ESTIM	ATED CONNECTED LOAD:		3.56	KVA								
		C/B							C/B			
CKT.		AMPS/	LOAD					LOAD	AMPS/		CKT.	
NO.	DESCRIPTION	POLES	TYPE	KVA	PH-A	PH-B	KVA	TYPE	POLES	DESCRIPTION	NO.	
1	ULTRASONIC LEVEL TANK 1	20/1P	INST.	0.015	0.735		0.720	RECPT.	20/1P	CHEM. ROOM. RECPT.	2	
3	ULTRASONIC LEVEL TANK 2	20/1P	INST.	0.015		0.880	0.865	MOTOR	20/1P	CHEM. PUMP NO. 1 (1/3 HP)	4	
5	SPARE	20/1P			0.865		0.865	MOTOR	20/1P	CHEM. PUMP NO. 2 (1/3 HP)	6	
7	SPARE	20/1P				0.000			20/1P	SPARE	8	
9	SPARE	20/1P			0.360		0.360	RECPT.	20/1P	EXTERIOR RECPT.	10	
11	CHEM FEED PANEL	20/1P	INST.	0.180		0.360	0.180	HEAT	20/1P	EYEWASH HEAT TRACE, GFCI	12	
13	SPARE	20/1P			0.000				20/1P	SPARE	14	
15	SPARE	20/1P				0.000	0.180	INST.	20/1P	FLOW METER NO. 1	16	
17	SPARE	20/1P			0.180		0.180	INST.	20/1P	FLOW METER NO. 2	18	
19	SPARE	20/1P				0.000			20/1P	SPARE	20	
	LOAD SUMMARY			0.210	2.140	1.240	3.350					

* ALL CONDUCTORS TO BE #12 IN 3/4 INCH CONDUIT UNLESS OTHERWISE INDICATED ON ONE LINE DIAGRAM

CIRCUIT BREAKER PANELBOARD - PLP								SCHEDULE			
LOCAT	ION:		BALDWIN	SVILLE	GALLE	RY 6		FEED FROM	10 KVA TRANSFORMER/MCC		
MAIN	BUS RATING:		100 AM	PERES				120/240 VOLTS		1 PHASE, 3 WIRE	
MINIMU	JM SHORTCIRCUIT:		10,000	AMPERE	S			FEEDER CABLE		3 # 8, 1 #10 G, 3/4" CRGS	
MAIN	BREAKER TRIP:		50 AMP	ERES				SURFACE MTD			
ESTIM/	TED CONNECTED LOAD:		4.82	KVA							
		C/B							C/B		
CKT.		AMPS/	LOAD					LOAD	AMPS/		CKT.
NO.	DESCRIPTION	POLES	TYPE	KVA	PH-A	PH-B	KVA	TYPE	POLES	DESCRIPTION	NO.
1	ULTRASONIC LEVEL TANK 1	20/1P	INST.	0.015	0.735		0.720	RECPT.	20/1P	CHEM. ROOM. RECPT.	2
3	ULTRASONIC LEVEL TANK 2	20/1P	INST.	0.015		0.880	0.865	MOTOR	20/1P	CHEM. PUMP NO. 1 (1/3 HP)	4
5	SPARE	20/1P			0.825		0.865	MOTOR	20/1P	CHEM. PUMP NO. 2 (1/3 HP)	6
7	SPARE	20/1P				0.180	0.180	HEAT	20/1P	EYEWASH HEAT TRACE, GFCI	8
9	SPARE	20/1P			0.360		0.360	RECPT.	20/1P	EXTERIOR RECEPT.	10
11	CHEM FEED PANEL	20/1P	INST.	0.180		0.360	0.180	RECPT.	20/1P	RECPT. AT PLP	12
13	CHEM. FEED LTS.	20/1P		0.192	0.192				20/1P	SPARE	14
15	SPARE	20/1P				0.000	0.180	INST.	20/1P	FLOW METER NO. 1	16
17	CHEM. STORAGE LTS.	20/1P	LIGHTS	0.849	1.029		0.180	INST.	20/1P	FLOW METER NO. 2	18
19	EXIT LIGHT	20/1P	LIGHTS	0.040		0.040			20/1P	SPARE	20
	LOAD SUMMARY			1.291	3.141	1.460	3.530				

* ALL CONDUCTORS TO BE #12 IN 3/4 INCH CONDUIT UNLESS OTHERWISE INDICATED ON ONE LINE DIAGRAM

(RECORD DRAWING: MADE FROM DRAWING NO.

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE CHEMICAL STORAGE AND FEED FACILITIES AT E BREWERTON, WETZEL ROAD AN

PANEL SCH

X: 00364X00.DWG L: 0N=4, OFF=REF P: CONT-D.D/CONT-MVB 5/01 SYR=54-DCC 00364026/RECORD/00364E06.DWG

Graphic Scale No. Date Revisions Init Project Mgr. _ _ _ _CJL_ _ _
 Designed by _____TEL/MEE____

 Drawn by ______DCC_____

 Checked by _____TEL/MEE____
 NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW BLASLAND, BOUCK & LEE, INC. Prof. Eng. _ DONALD GEISSER engineers & scientists PE License ____N.Y._57879___

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC

BLASLAND, BOUCK & LEE, INC.

AWING NO. E-6 FILE NO. 003.64.33F, DATED 1/99)	DATEBY
OF DRAINAGE AND SANITATION • SYRACUSE, N.Y. LITIES AT BALDWINSVILLE - SENECA KNOLLS.	File Number 003.64.105F
ROAD AND BURNET AVENUE	MAY 2001 E-6
SCHEDULES	Corporate Headquarters 6723 Towpath Road
ELECTRICAL	Syracuse, NY 13214 315—446—9120

BURNET AVE. CHEMICAL FEED STATION / CO			WETZEL ROAD CHEMICAL FEED A				PREWERTON		REA / CONDUIT SO					AREA / CONDUIT S	
CKT. NO. CONDUIT SIZE NO./SIZE CONDUCTORS FROM	TO	OKT NO	CONDUIT SIZE NO. /SIZE CONDUCTORS			CKT. NO.		NO./SIZE CONDUCTOR					NO./SIZE CONDUCTOR		
P-1 1 1/2" CRGS 3 # 1/0 RISER POLE		I VP - 1		TROM	NOT USED	P-1	3/4" CRGS	3 # 10, 1 #10 G	MCC	DISC. SW.	P-1	3/4" PVC	3 # 10. 1 #10 G	MCC	DISC. SW.
P-2 1 1/2" CRGS 3 # 1/0, 1 # 6 G UTILITY MET		LVP - 2			NOT USED	P-2	3/4" CRGS	3 # 10, 1 #10 G	DISC. SW.	TRANSFORMER	P-2	3/4" CRGS	3 # 10, 1 #10 G	DISC. SW.	TRANSFORMER
PLP - 1 3/4" CRGS 2 # 12, 1 # 12 G PLP	GAS DUCT FURNACE	LVP - 3			NOT USED	P-3	3/4" CRGS	3 # 8, 1 #8 G	TRANSFORMER	PLP	P-3	3/4" CRGS	3 # 8, 1 #8 G	TRANSFORMER	PLP
PLP - 2 3/4" CRGS 2 # 12, 1 # 12 G PLP	CHEM, RM, RECPT.	LVP - 4			NOT USED	PLP - 1	3/4" CRGS	2 # 12, 1 # 12 G	PLP	TANK LEVEL 1	PLP - 1		2 # 12, 1 # 12 G	PLP	TANK LEVEL 1
PLP - 3,5 3/4" CRGS 2 # 12, 1 # 12 G PLP	STRIP HEATER SH-1	LVP - 5			NOT USED	PLP - 2	3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEM, RM, RECPT,	PLP - 2		2 # 12, 1 # 12 G	PLP	CHEM, RM, RECPT.
PLP – 4 3/4" CRGS 2 # 12, 1 # 12 G PLP	CHEMICAL PUMP 1	LVP - 6			NOT USED	PLP – 3	3/4" CRGS	2 # 12, 1 # 12 G	PLP	TANK LEVEL 2	PLP - 3	3/4" CRGS	2 # 12, 1 # 12 G	PLP	TANK LEVEL 2
PLP - 6 3/4" CRGS 2 # 12, 1 # 12 G PLP	CHEMICAL PUMP 2	LVP - 7			NOT USED	PLP – 4	3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEMICAL PUMP 1	PLP – 4	3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEMICAL PUMP 1
PLP – 7 3/4" CRGS 2 # 12, 1 # 12 G PLP	SUPPLY FAN SF-1	LVP - 8			NOT USED	PLP – 5				NOT USED	PLP - 5				NOT USED
PLP – 8 3/4" CRGS 2 # 12, 1 # 12 G PLP	EXHAUST FAN EF-1	LVP - 9			NOT USED	PLP - 6	3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEMICAL PUMP 2		3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEMICAL PUMP 2
PLP – 9 3/4" CRGS 2 # 12, 1 # 12 G PLP, GFCI	EYEWASH HEAT TRACE	LVP - 10	3/4" CRGS 2 # 12, 1 # 12 G	LVP	TANK LEVEL 1	PLP - 7				NOT USED	PLP - 7				NOT USED
PLP - 10 3/4" CRGS 2 # 12, 1 # 12 G PLP	EXTERIOR RECPT.	LVP - 11			NOT USED	PLP – 8				NOT USED	PLP - 9				NOT USED
PLP - 11 3/4" CRGS 2 # 12, 1 # 12 G PLP	CHEM FEED PANEL		3/4" CRGS 2 # 12, 1 # 12 G	LVP	TANK LEVEL 2	PLP - 9				NOT USED		10 3/4" CRGS	4 # 12, 2 # 12 G	PLP-8, GFCI	EXTERIOR RECPT. & H.T.
PLP - 12 3/4" CRGS 2 # 12, 1 # 12 G PLP	ELEC. RM. RECPT.	LVP - 13			NOT USED		3/4" CRGS	4 # 12, 2 # 12 G	PLP-12, GFCI	EXTERIOR RECPT. & H.T.		3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEM FEED PANEL
PLP - 13 3/4" CRGS 2 # 12, 1 # 12 G PLP	ELEC. RM. LIGHTS			LVP	EXTERIOR RECPT.	PLP - 11	3/4" CRGS	2 # 12, 1 # 12 G	PLP	CHEM FEED PANEL		3/4" CRGS	2 # 12, 1 # 12 G	PLP	RECPT. AT PLP
PLP 14 3/4" CRGS 2 # 12, 1 # 12 G PLP PLP 15 3/4" CRGS 2 # 12, 1 # 12 G PLP	TELEPHONE BOARD			LVP	CHEM FEED PANEL	PLP - 13			_	NOT USED		3/4" CRGS	2 # 12, 1 # 12 G	PLP	FEED PANEL LIGHTS
	EXTERIOR LIGHTS FLOW METER 1			LVP	FLOW METER 1	PLP - 14				NOT USED	PLP - 14				NOT USED
PLP 16 3/4" CRGS 2 # 12, 1 # 12 G PLP PLP 17 3/4" CRGS 2 # 12, 1 # 12 G PLP	CHEM, STG, LTS,			LVP	FLOW METER 2	PLP - 15	7 / 17 0000			NOT USED	PLP - 15			21.0	NOT USED
PLP = 17 3/4 CRGS 2 # 12, 1 # 12 G PLP PLP = 18 3/4" CRGS 2 # 12, 1 # 12 G PLP	FLOW METER 2			LVP	LIGHTS IN TANK BLDG. EXTERIOR LIGHT	PLP - 16 PLP - 17	3/4" CRGS	2 # 12, 1 # 12 G	PLP	FLOW METER 1 NOT USED		3/4" CRGS 3/4" CRGS	2 # 12, 1 # 12 G	PLP PLP	FLOW METER 1 CHEM, STORAGE LIGHTS
PLP - 19 3/4" CRGS 2 # 12, 1 # 12 G PLP	EXIT LIGHT	LVP = 19 LVP = 20		LVP	NOT USED	PLP = 17 PLP = 18	3/4" CRGS	2 # 12, 1 # 12 G	PLP	FLOW METER 2		3/4" CRGS	2 # 12, 1 # 12 G 2 # 12, 1 # 12 G	PLP	FLOW METER 2
PLP = 20,22 3/4" CRGS 2 # 12, 1 # 12 G PLP	EXHAUST FAN EF-2			LVP	CHEMICAL PUMP 1	PLP = 18 PLP = 19	3/4 CRGS	2 # 12, 1 # 12 6		NOT USED		3/4" CRGS	2 # 12, 1 # 12 G	PLP	EXIT SIGN
PLP = 21 3/4" CRGS 2 # 12, 1 # 12 G PLP	TANK LEVEL 1		3/4" CRGS 2 # 12, 1 # 12 G	LVP	CHEMICAL FUMP I	PLP = 19 PLP = 20				NOT USED	PLP = 19 PLP = 20		2 # 12, 1 # 12 6		NOT USED
PLP - 23 3/4" CRGS 2 # 12, 1 # 12 G PLP	TANK LEVEL 2		3/4" CRGS 2 # 12, 1 # 12 G	LVP	CHEMICAL PUMP 2	CC -1	3/4" CRGS	2 TSP # 16	CHEM FEED PANEL	PUMP #1 DLC	CC -1	3/4" CRGS	TWO TSP # 16	CHEM FEED PANEL	PUMP #1 DLC
PLP - 24	NOT USED	LVP - 24		LVI	NOT USED	CC -2	3/4" CRGS	2 TSP # 16	CHEM FEED PANEL		CC -2	3/4" CRGS	TWO TSP # 16	CHEM FEED PANEL	PUMP #2 DLC
PLP - 25	NOT USED		3/4" CRGS 2 TSP # 16	CHEM FEED PANEL	PUMP #1 DLC	CC -3	0/1 01(00	2 101 # 10	ONEM FEED FAILEE	NOT USED	CC -3		1110 101 # 10	OTTEM TEED TYTTEE	NOT USED
CC -1 1 1/2" CRGS PULL STRING RISER POLE			3/4" CRGS 2 TSP # 16	CHEM FEED PANEL	PUMP #2 DLC	CC -4	3/4" CRGS	TSP # 16	CHEM FEED PANEL	TANK 1 LEVEL TRANS	CC -4	3/4" CRGS	TSP # 16	CHEM FEED PANEL	TANK 1 LEVEL TRANS
CC -2 3/4" CRGS 4 # 22 TELEPHONE TELEPHONE	BOARD WALL PHONE	CC -3			NOT USED	CC -4A	3/4" CRGS	6 # 14, TSP # 16	CHEM FEED PANEL	TANK 1 LEVEL TRANS	CC -4A	3/4" CRGS	6 # 14, TSP # 16	CHEM FEED PANEL	TANK 1 LEVEL TRANS
CC -3 3/4" CRGS 4 # 22 TELEPHONE TELEPHONE	BOARD CHEM FEED PANEL	CC -4	3/4" CRGS TSP # 16	CHEM FEED PANEL	TANK 1 LEVEL TRANS	CC -5	3/4" CRGS	TSP # 16	CHEM FEED PANEL	TANK 2 LEVEL TRANS	CC -5	3/4" CRGS	TSP # 16	CHEM FEED PANEL	TANK 2 LEVEL TRANS
CC -4 3/4" CRGS TSP # 16 CHEM FEED	PANEL TANK 1 LEVEL TRANS	CC -4A	3/4" CRGS 6 # 14, TSP # 16	CHEM FEED PANEL	TANK 1 LEVEL TRANS	CC -5A	3/4" CRGS	6 # 14, TSP # 16	CHEM FEED PANEL	TANK 2 LEVEL TRANS	CC -5A	3/4" CRGS	6 # 14, TSP # 16	CHEM FEED PANEL	TANK 2 LEVEL TRANS
CC -4A 3/4" CRGS 6 # 14, TSP # 16 CHEM FEED	PANEL TANK 1 LEVEL TRANS	CC -5	3/4" CRGS TSP # 16	CHEM FEED PANEL	TANK 2 LEVEL TRANS	CC -6	, ·			NOT USED	CC -6				NOT USED
CC -5 3/4" CRGS TSP # 16 CHEM FEED		CC -5A	3/4" CRGS 6 # 14, TSP # 16	CHEM FEED PANEL	TANK 2 LEVEL TRANS	CC -7	3/4" CRGS	2 # 14	CHEM FEED PANEL	SUMP HIGH LEVEL	CC -7	3/4" CRGS	2 # 14	CHEM FEED PANEL	SUMP HIGH LEVEL
CC -5A 3/4" CRGS 6 # 14, TSP # 16 CHEM FEED		CC -6			NOT USED	CC -8	3/4" CRGS	12 # 14, 1 # 14 G	CHEM FEED PANEL	REMOTE FILL PANEL	CC -8	3/4" CRGS	12 # 14, 1 # 14 G	CHEM FEED PANEL	REMOTE FILL PANEL
CC -6 3/4" CRGS TSP # 16 CHEM FEED			3/4" CRGS 2 # 14	CHEM FEED PANEL	SUMP HIGH LEVEL	CC -9	3/4" CRGS	2 TSP # 16		REMOTE FILL PANEL	CC -9	3/4" CRGS	2 TSP # 16	CHEM FEED PANEL	REMOTE FILL PANEL
CC -7 3/4" CRGS 2 # 14 CHEM FEED			3/4" CRGS 12 # 14, 1 # 14 G	CHEM FEED PANEL	REMOTE FILL PANEL	CC -10	3/4 CRGS	RG 62A/U		JB ABOVE TANK 1	CC -10	3/4" CRGS	RG 62A/U	TANK 1 LEVEL TRANS.	
CC -8 3/4" CRGS 12 # 14, 1 # 14 G CHEM FEED CC -9 3/4" CRGS 2 TSP # 16 CHEM FEED			3/4" CRGS 2 TSP # 16	CHEM FEED PANEL	REMOTE FILL PANEL	CC -10A	1" LIQUID TITE	MANUF. CABLE	JB ABOVE TANK 1		CC -10A		MANUF. CABLE	JB ABOVE TANK 1	
	PANEL REMOTE FILL PANEL VEL TRANS JB ABOVE TANK 1		3/4" CRGS RG 62A/U		S JB ABOVE TANK 1	CC -11	3/4" CRGS	RG 62A/U	CHEM FEED PANEL		CC -11	3/4" CRGS	RG 62A/U	TANK 2 LEVEL TRANS.	
	TANK 1 TK LEVEL TRANSD.		1" LIQUID TITE MANUF. CABLE 3/4" CRGS RG 62A/U	JB ABOVE TANK 1	TK LEVEL TRANSD.	CC -11A	1" LIQUID TITE	MANUF. CABLE	JB ABOVE TANK 2		CC -11A		MANUF. CABLE	JB ABOVE TANK 2	
	VEL TRANS JB ABOVE TANK 2				IS JB ABOVE TANK 2 TK LEVEL TRANSD.	CC -12 CC -12A	3/4" CRGS	4 # 14		JB ABOVE TANK 2 TANK 2 LEVEL FLOAT	CC -12	3/4" CRGS 3/4" CRGS	4 # 14		JB ABOVE TANK 2 TANK 2 LEVEL FLOAT
	TANK 2 TK LEVEL TRANSD.		1" LIQUID TITE MANUF. CABLE 3/4" CRGS 4 # 14	CHEM FEED PANEL	JB ABOVE TANK 2	CC -12A	3/4" CRGS 3/4" CRGS	2 # 14 2 # 14		JB ABOVE TANK 1	CC -12A CC -13	3/4" CRGS	2 # 14		JB ABOVE TANK 1
CC -12 $3/4"$ CRGS $4 # 14$ CHEM FEED			3/4 CRGS 4 # 14	JB ABOVE TANK 2	TANK 2 LEVEL FLOAT	CC -13A	3/4" CRGS	2 # 14		TANK 1 LEVEL FLOAT	CC -13A		2 # 14	JB ABOVE TANK 2	TANK 1 LEVEL FLOAT
CC -12A = 3/4" CRGS = 2 # 14 JB ABOVE 1			3/4" CRGS 2 # 14	CHEM FEED PANEL	JB ABOVE TANK 1	CC -14	3/4" CRGS	2 # 14		EYE WASH FLOW SW.	CC -14		4 # 14	CHEM FEED PANEL	EYE WASH FLOW SW.
CC -13 3/4" CRGS 2 # 14 JB ABOVE 1			3/4" CRGS 2 # 14	JB ABOVE TANK 1	TANK 1 LEVEL FLOAT	CC -15	3/4" CRGS	2 TSP # 16		JB AT FLOW METERS	CC -15	3/4" CRGS	2 TSP # 16		JB AT FLOW METERS
CC -13A 3/4" CRGS 2 # 14 JB ABOVE 1			3/4" CRGS 2 # 14	CHEM FEED PANEL	EYE WASH FLOW SW.	CC -15A	3/4" LQUID TITE		JB AT FLOW METERS			3/4" LQUID TITE		JB AT FLOW METERS	
CC -14 3/4" CRGS 2 # 14 CHEM FEED			3/4" CRGS 2 TSP # 16	CHEM FEED PANEL	JB AT FLOW METERS		3/4" LQUID TITE		JB AT FLOW METERS			3/4" LQUID TITE		JB AT FLOW METERS	
CC -15 3/4" CRGS 2 TSP # 16 CHEM FEED	PANEL JB AT FLOW METERS		3/4" LQUID TITE 2 TSP # 16	JB AT FLOW METERS		CC - 16		2 TSP # 16		JB AT PRESS. SW		3/4" CRGS	2 TSP # 16	CHEM FEED PANEL	
CC -15A 3/4" LQUID TITE 2 TSP # 16 JB AT FLOW	W METERS FLOW METER 2		3/4" LQUID TITE 2 TSP # 16	JB AT FLOW METERS		CC - 16A	3/4" LQUID TITE		JB AT PRESS. SW			3/4" LQUID TITE		JB AT PRESS. SW	PRESS SW 1
	W METERS FLOW METER 1	CC - 16	3/4" CRGS 2 TSP # 16	CHEM FEED PANEL	JB AT PRESS. SW	CC - 16B	3/4" LQUID TITE		JB AT PRESS. SW	PRESS SW 2		3/4" LQUID TITE	E TSP # 16	JB AT PRESS. SW	PRESS SW 2
CC - 16 3/4" CRGS 2 TSP # 16 CHEM FEED			3/4" LQUID TITE TSP # 16	JB AT PRESS. SW	PRESS SW 1	CC - 17	3/4" CRGS	4 # 14	CHEM FEED PANEL			3/4" CRGS	12 # 14	CHEM FEED PANEL	JB AT PUMP 2
CC – 16A 3/4" LQUID TITE TSP # 16 JB AT PRES			3/4" LQUID TITE TSP # 16	JB AT PRESS. SW	PRESS SW 2	CC - 17A	3/4" CRGS	TSP #16		PUMP 2 LEAK ALARM		3/4" CRGS	TSP #16	JBATPUMP 2	PUMP 2 LEAK ALARM
	SS. SW PRESS SW 2		3/4" CRGS 4 # 14	CHEM FEED PANEL	JBATPUMP 2	CC - 17B	3/4" CRGS	4 # 14	JB AT PUMP 2	DLC		3/4" CRGS	4 # 14	JBATPUMP 2	DLC
	PANEL JB AT PUMP 2		3/4" CRGS TSP #16	JB AT PUMP 2	PUMP 2 LEAK ALARM	CC - 18	3/4" CRGS	2 # 14	JB AT PUMP 2	JB AT PUMP 1	CC - 18		6 # 14	JBATPUMP 2	JB AT PUMP 1
CC - 17A 3/4" CRGS TSP #16 JB AT PUMF			3/4" CRGS 4 # 14	JB AT PUMP 2	DLC	CC - 18A	3/4" CRGS	TSP #16	JB AT PUMP 1	PUMP 1 LEAK ALARM	CC - 18A		TSP #16	JB AT PUMP 1	PUMP 1 LEAK ALARM
CC - 18 3/4" CRGS 2 #14 JB AT PUMP			3/4" CRGS 2 # 14	JB AT PUMP 2	JB AT PUMP 1	CC - 18B	3/4" CRGS	4 # 14	JB AT PUMP 1	DLC		3/4" CRGS	4 # 14	JB AT PUMP 1	DLC
CC - 18A 3/4" CRGS TSP #16 JB AT PUMF CC - 19 3/4" CRGS TSP # 16 CHEM FEED			3/4" CRGS TSP #16	JB AT PUMP 1	PUMP 1 LEAK ALARM	CC - 19	3/4" CRGS	TSP # 16		CHEM RM. TEMP. TRANS.		3/4" CRGS	TSP # 16	CHEM FEED PANEL	CHEM RM. TEMP. TRANS.
			3/4" CRGS 4 # 14	JB AT PUMP 1	DLC		3/4" CRGS	2 # 14		VENT. AIR FLOW SW.	<u> </u>	3/4" CRGS	2 # 14	CHEM FEED PANEL	VENT. AIR FLOW SW.
CC - 20 3/4" CRGS 2 #14 CHEM FEED CC - 21 3/4" CRGS 3 #14 EF-2 STAR			3/4" CRGS TSP # 16	CHEM FEED PANEL	CHEM RM. TEMP. TRANS.	CC - 21	3/4 CRGS	2 # 14	CHEM FEED PANEL	EYEWASH FLOW SWITCH					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			3/4" CRGS 2 # 14 3/4" CRGS 2 # 14	CHEM FEED PANEL CHEM FEED PANEL	VENT. AIR FLOW SW. EYEWASH FLOW SWITCH										
CC - 23 3/4 CRGS 4 #14 EF-2 STAR CC - 23 3/4" CRGS 3 #14 EF-2 STAR				CHEM FEED PANEL	EXTERIOR LIGHTS										
CC - 24 3/4" CRGS 2 TSP # 16 CHEM. FEED		LUC - 22	3/4" CRGS 14 # 14	UCHEM FEED PANEL	LAICKIUK LIGHIS										
CC - 25 3/4" CRGS 2 TSP # 16 CHEM. FEED															
CC = 26 $1-1/2"$ CRGS 2 #14 CHEM. FEED															
CC = 27 3/4" CRGS 4 # 14 CHEM. FEED															
	D PANEL EXTERIOR EYE/SHOWER														

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 Checked by _____TEL/MEE

 Prof. Eng. ___DONALD_GEISSER
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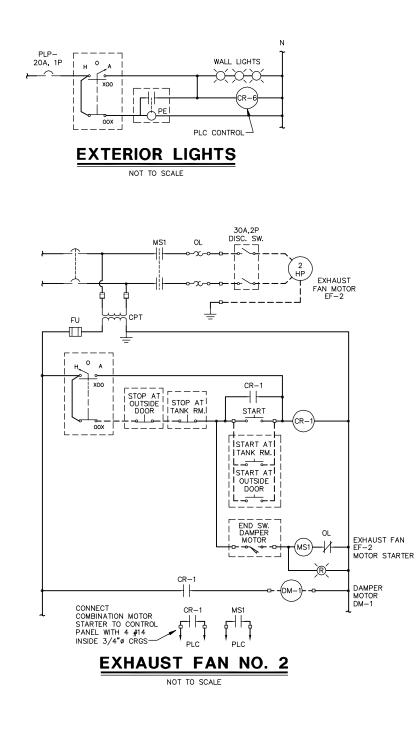


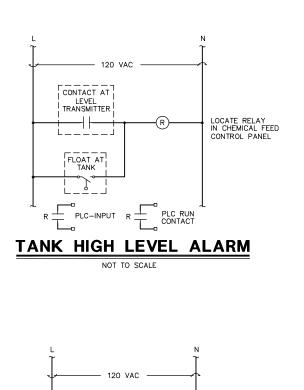
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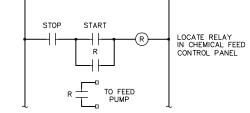
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE CHEMICAL STORAGE AND FEED FACILITIES AT BREWERTON, WETZEL ROAD AN

RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED. BLASLAND, BOUCK & LEE, INC.

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NONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, N.Y. E AND FEED FACILITIES AT BALDWINSVILLE - SENECA KNOLLS.	File Number 003.64.106F	
EWERTON, WETZEL ROAD AND BURNET AVENUE	Date MAY 2001	E-7
	Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214	C -/
	315-446-9120	







NOTES:

I. THIS DIAGRAM WAS REVISED DURING CONSTRUCTION. REFER TO ELECTRICAL INTERCONNECTION DATA SHEETS AND CHEMICAL METERING PUMP MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL FOR ADDITIONAL INFORMATION.

2. BURNET AVENUE CHEMICAL FEED PUMPS ARE 240 VOLT.

CHEMICAL FEED PUMP START-STOP

NOT TO SCALE

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	L				Designed by TEL/MEE			CHEMICAL STORAGE AND FEED FACILITIES AT BA
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NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION					Checked byTEL/MEE Prof. Eng DONALD_GEISSER _	BLASLAND, BOUCK & LEE, INC.	ELEMENTARY D	
2 OF THE NEW YORK STATE EDUCATION LAW					PE License <u>N.Y57879</u>		engineers & scientists	ELECTRICAL
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NAGE AND SANITATION • SYRACUSE, N.Y. AT BALDWINSVILLE – SENECA KNOLLS,		File Number 003.64.107F	
AND BURNET AVENUE		Date MAY 2001	E-8
		Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	E-8