

CONTRACT DRAWINGS

OAK ORCHARD

WASTEWATER TREATMENT PLANT

SITE IMPROVEMENTS

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

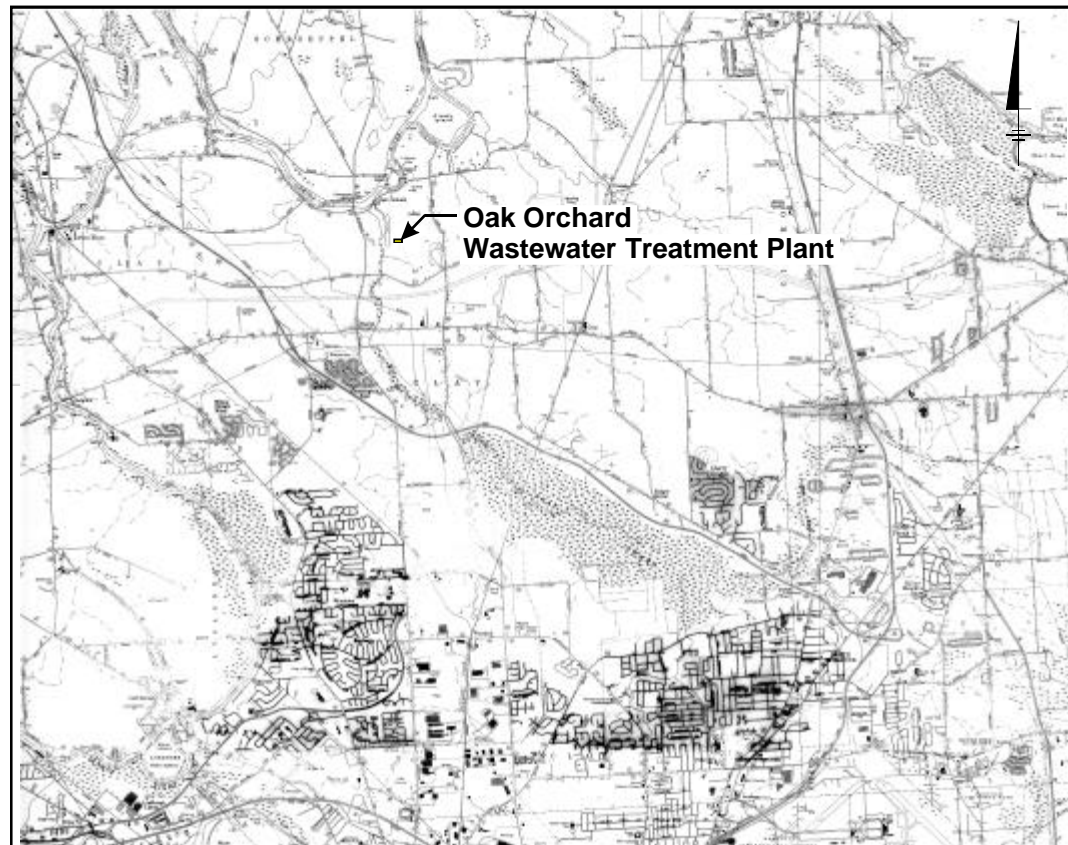
PROJECT NO. 587354

CONTRACT NO. 2

FEBRUARY 1999
REVISED MARCH 1999

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REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., SYRACUSE EAST AND WEST, NEW YORK.

2000' 0 2000'
Approximate Graphic Scale: 1 = 2000'

LOCATION MAP

APPROVED BY ONONDAGA COUNTY
DEPARTMENT OF DRAINAGE AND SANITATION

JOHN M. KARANIK, COMMISSIONER

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

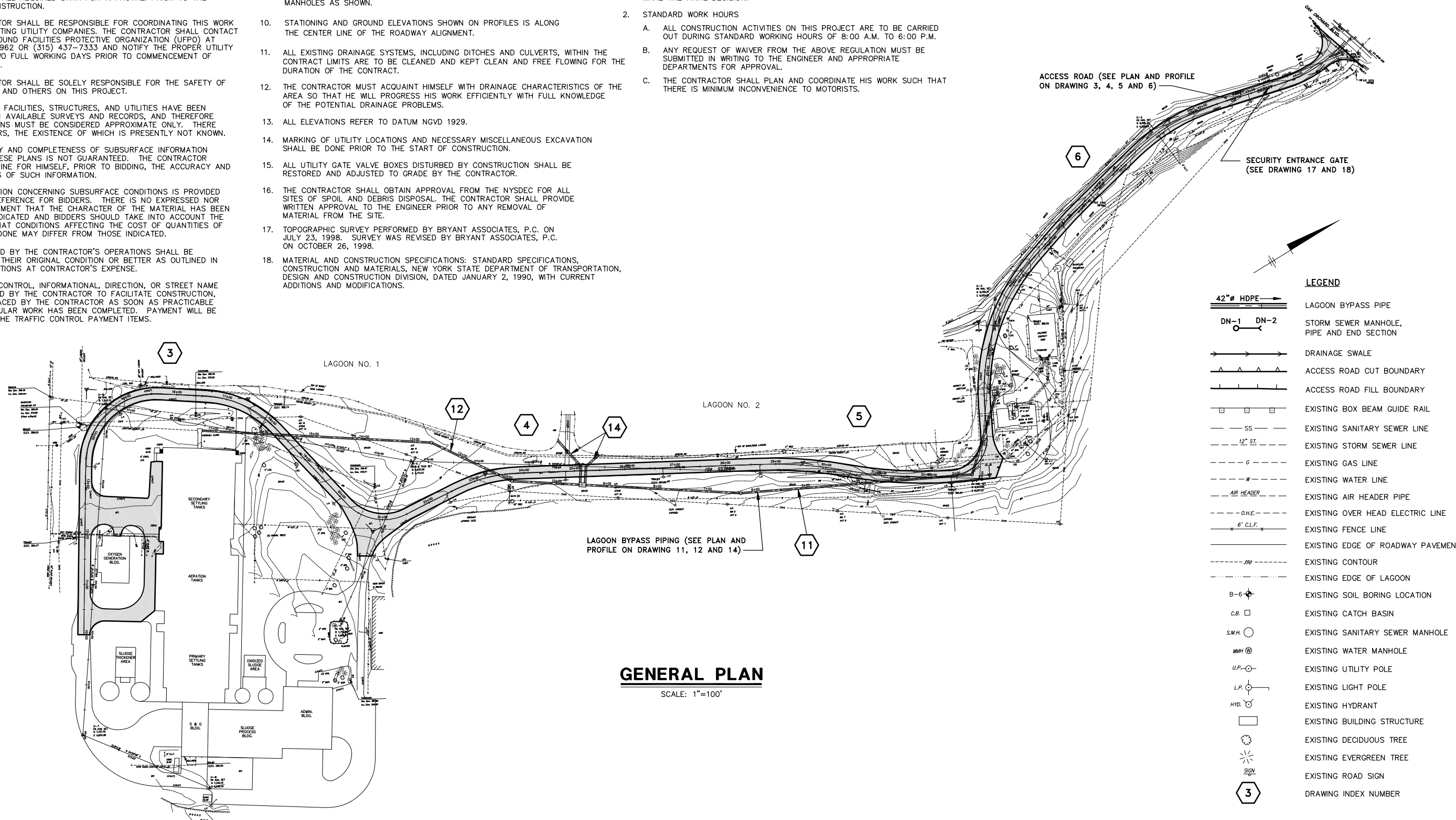
GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AS MAY BE REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER AND APPROPRIATE DEPARTMENTS ALL REQUIRED DATA FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIS WORK WITH THE EXISTING UTILITY COMPANIES. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFPO) AT 1-800-962-7962 OR (315) 437-7333 AND NOTIFY THE PROPER UTILITY COMPANIES TWO FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF THE WORKERS AND OTHERS ON THIS PROJECT.
4. 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.
5. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE PLANS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE FOR HIMSELF, PRIOR TO BIDDING, THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION.
6. ANY INFORMATION CONCERNING SUBSURFACE CONDITIONS IS PROVIDED ONLY AS A REFERENCE FOR BIDDERS. THERE IS NO EXPRESSED NOR IMPLIED AGREEMENT THAT THE CHARACTER OF THE MATERIAL HAS BEEN CORRECTLY INDICATED AND BIDDERS SHOULD TAKE INTO ACCOUNT THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST OF QUANTITIES OF WORK TO BE DONE MAY DIFFER FROM THOSE INDICATED.
7. ITEMS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER AS OUTLINED IN THE SPECIFICATIONS AT CONTRACTOR'S EXPENSE.
8. ANY TRAFFIC CONTROL, INFORMATIONAL, DIRECTION, OR STREET NAME SIGNS REMOVED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION, WILL BE REPLACED BY THE CONTRACTOR AS SOON AS PRACTICABLE AFTER PARTICULAR WORK HAS BEEN COMPLETED. PAYMENT WILL BE INCLUDED IN THE TRAFFIC CONTROL PAYMENT ITEMS.

9. INVERT ELEVATIONS SHOWN AT MANHOLES ARE THE PIPE INVERTS EXTENDED TO THE CENTERLINE OF EACH MANHOLE AND WERE COMPUTED USING THE DISTANCES AND GRADES BETWEEN THE CENTERLINE OF MANHOLES AS SHOWN.
10. STATIONING AND GROUND ELEVATIONS SHOWN ON PROFILES IS ALONG THE CENTER LINE OF THE ROADWAY ALIGNMENT.
11. ALL EXISTING DRAINAGE SYSTEMS, INCLUDING DITCHES AND CULVERTS, WITHIN THE CONTRACT LIMITS ARE TO BE CLEANED AND KEPT CLEAN AND FREE FLOWING FOR THE DURATION OF THE CONTRACT.
12. THE CONTRACTOR MUST ACQUAINT HIMSELF WITH DRAINAGE CHARACTERISTICS OF THE AREA SO THAT HE WILL PROGRESS HIS WORK EFFICIENTLY WITH FULL KNOWLEDGE OF THE POTENTIAL DRAINAGE PROBLEMS.
13. ALL ELEVATIONS REFER TO DATUM NGVD 1929.
14. MARKING OF UTILITY LOCATIONS AND NECESSARY MISCELLANEOUS EXCAVATION SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION.
15. ALL UTILITY GATE VALVE BOXES DISTURBED BY CONSTRUCTION SHALL BE RESTORED AND ADJUSTED TO GRADE BY THE CONTRACTOR.
16. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE NYSDEC FOR ALL SITES OF SPOIL AND DEBRIS DISPOSAL. THE CONTRACTOR SHALL PROVIDE WRITTEN APPROVAL TO THE ENGINEER PRIOR TO ANY REMOVAL OF MATERIAL FROM THE SITE.
17. TOPOGRAPHIC SURVEY PERFORMED BY BRYANT ASSOCIATES, P.C. ON JULY 23, 1998. SURVEY WAS REVISED BY BRYANT ASSOCIATES, P.C. ON OCTOBER 26, 1998.
18. MATERIAL AND CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DESIGN AND CONSTRUCTION DIVISION, DATED JANUARY 2, 1990, WITH CURRENT ADDITIONS AND MODIFICATIONS.

SPECIAL NOTES:

1. ANY DISCREPANCY BETWEEN THE CONTRACT PLANS AND THE SPECIFICATIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION. THE ENGINEER WILL MAKE THE FINAL DECISION.
2. STANDARD WORK HOURS
 - A. ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT ARE TO BE CARRIED OUT DURING STANDARD WORKING HOURS OF 8:00 A.M. TO 6:00 P.M.
 - B. ANY REQUEST OF WAIVER FROM THE ABOVE REGULATION MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROPRIATE DEPARTMENTS FOR APPROVAL.
 - C. THE CONTRACTOR SHALL PLAN AND COORDINATE HIS WORK SUCH THAT THERE IS MINIMUM INCONVENIENCE TO MOTORISTS.



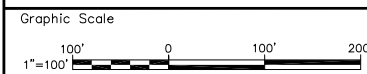
GENERAL PLAN

SCALE: 1"=100'

LEGEND

	LAGOON BYPASS PIPE
	STORM SEWER MANHOLE, PIPE AND END SECTION
	DRAINAGE SWALE
	ACCESS ROAD CUT BOUNDARY
	ACCESS ROAD FILL BOUNDARY
	EXISTING BOX BEAM GUIDE RAIL
	EXISTING SANITARY SEWER LINE
	EXISTING STORM SEWER LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING AIR HEADER PIPE
	EXISTING OVER HEAD ELECTRIC LINE
	EXISTING FENCE LINE
	EXISTING EDGE OF ROADWAY PAVEMENT
	EXISTING CONTOUR
	EXISTING EDGE OF LAGOON
	EXISTING SOIL BORING LOCATION
	EXISTING CATCH BASIN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING WATER MANHOLE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING HYDRANT
	EXISTING BUILDING STRUCTURE
	EXISTING DECIDUOUS TREE
	EXISTING EVERGREEN TREE
	EXISTING ROAD SIGN
	DRAWING INDEX NUMBER

X: 00365X00
 L: ON=*, OFF=REF
 P: STD-PCP/DL
 3/8/99 SYR-54 AK GMS AK
 00365020/OAK/CONT2/00365001.DWG



No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr. --- JCP
Designed by --- DKM, SAS
Drawn by --- AK
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- 57879 N.Y.

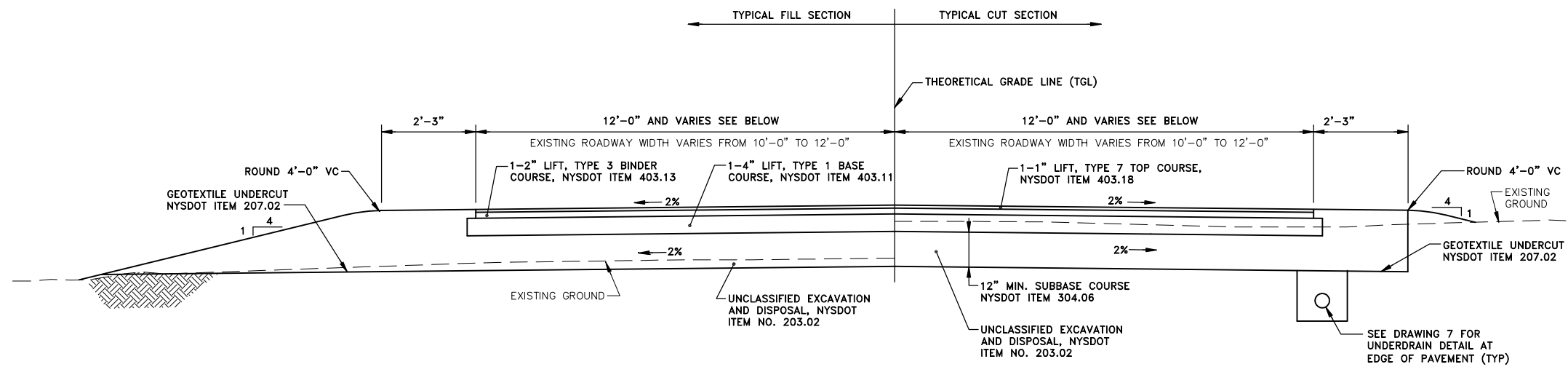
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

GENERAL PLAN, LEGEND, AND NOTES

CONTRACT NO. 2

File Number 003.65.101F
Date FEBRUARY 1999
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120



ACCESS ROAD RECONSTRUCTION WITHOUT SHOULDERS SECTION

NOT TO SCALE

LEFT LANE TREATMENT

RIGHT LANE TREATMENT

12' LT LANE	STA. 10+00.00 - 19+80.83	12' RT LANE	STA. 10+00.00 - 13+10.70
LT LANE VARIES 12' TO 16'	STA. 19+80.83 - 20+20.83	RT LANE VARIES 12' TO 14'	STA. 13+10.70 - 13+40.70
16' LT LANE	STA. 20+20.83 - 21+49.50	14' RT LANE	STA. 13+40.70 - 15+67.45
LT LANE VARIES 16' TO 12'	STA. 21+49.50 - 21+89.50	RT LANE VARIES 14' TO 12'	STA. 15+67.45 - 15+97.45
12' LT LANE	STA. 21+89.50 - 32+16.45	12' RT LANE	STA. 15+97.45 - 16+32.49
LT LANE VARIES 12' TO 14'	STA. 32+16.45 - 32+46.45	RT LANE VARIES 12' TO 14'	STA. 16+32.49 - 16+62.49
14' LT LANE	STA. 32+46.45 - 33+68.69	14' RT LANE	STA. 16+62.49 - 18+13.63
LT LANE VARIES 14' TO 12'	STA. 33+68.69 - 33+98.69	RT LANE VARIES 14' TO 12'	STA. 18+13.63 - 18+43.63
12' LT LANE	STA. 33+98.69 - 42+90.00	12' RT LANE	STA. 18+43.63 - 20+03.11
LT LANE VARIES 12' TO 13.5'	STA. 42+90.00 - 43+15.00	RT LANE VARIES	STA. 20+03.11 - 21+60.00
13.5' LT LANE	STA. 43+15.00 - 43+65.00	12' RT LANE	STA. 21+60.00 - 32+72.64
LT LANE VARIES 13.5' TO 12'	STA. 43+65.00 - 43+90.00	RT LANE VARIES	STA. 32+72.64 - 33+67.21
12' LT LANE	STA. 43+90.00 - 44+27.27	12' RT LANE	STA. 33+67.21 - 42+90.00
LT LANE VARIES 14' TO 12'	STA. 44+27.27 - 44+47.27	RT LANE VARIES 12' TO 13.5'	STA. 42+90.00 - 43+15.00
LT LANE VARIES	STA. 44+47.27 - 44+99.25	13.5' RT LANE	STA. 43+15.00 - 43+65.00
		RT LANE VARIES 13.5' TO 12'	STA. 43+65.00 - 43+90.00
		12' RT LANE	STA. 43+90.00 - 44+46.58
		RT LANE VARIES 14' TO 12'	STA. 44+47.27 - 44+67.27
		RT LANE VARIES	STA. 44+66.58 - 44+99.25

X: 003650.X00
L: ON=*, OFF=REF
P: STD-PCP/DL
1/29/99 SYR-54-NES RJM AK
00365020/OAK/CONT2/00365G03.DWG

Graphic Scale	No.	Date	Revisions	Init
NOT TO SCALE				

Project Mgr.	JCP
Designed by	DKM
Drawn by	AK
Checked by	JAH
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

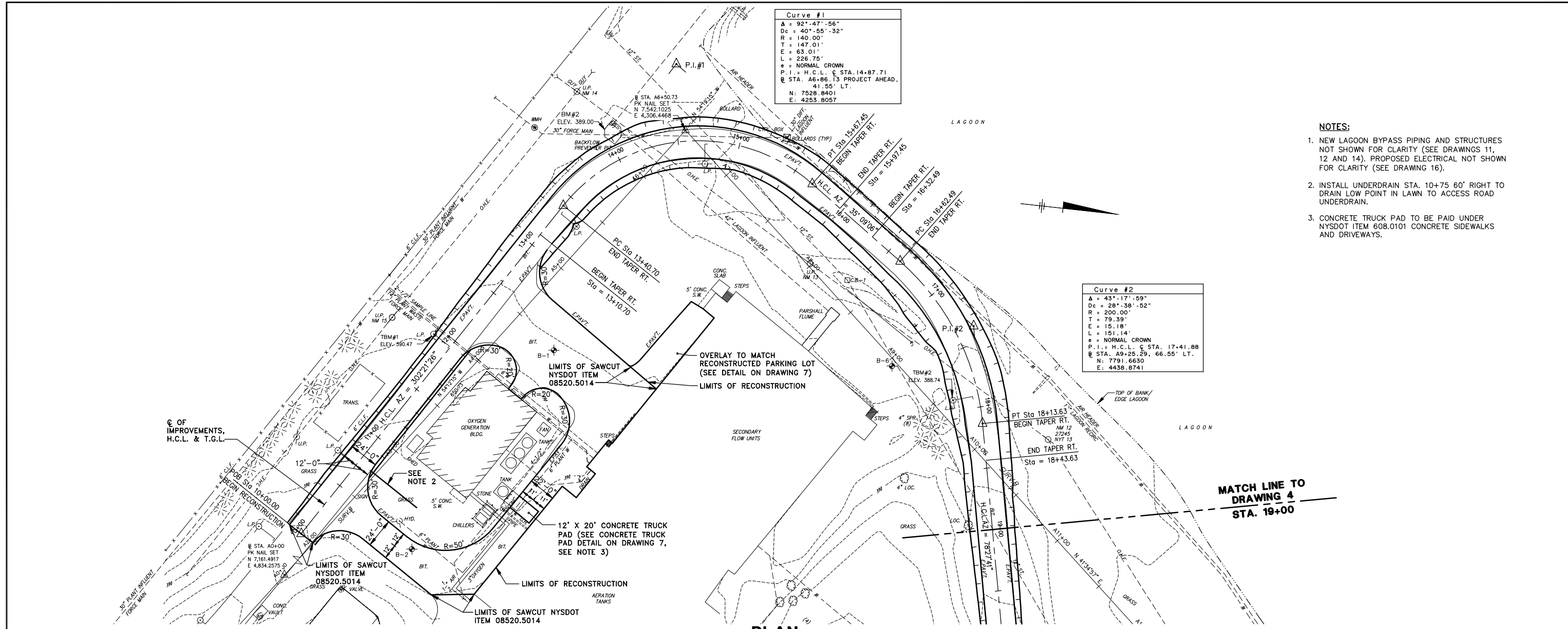
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

ACCESS ROAD SECTION

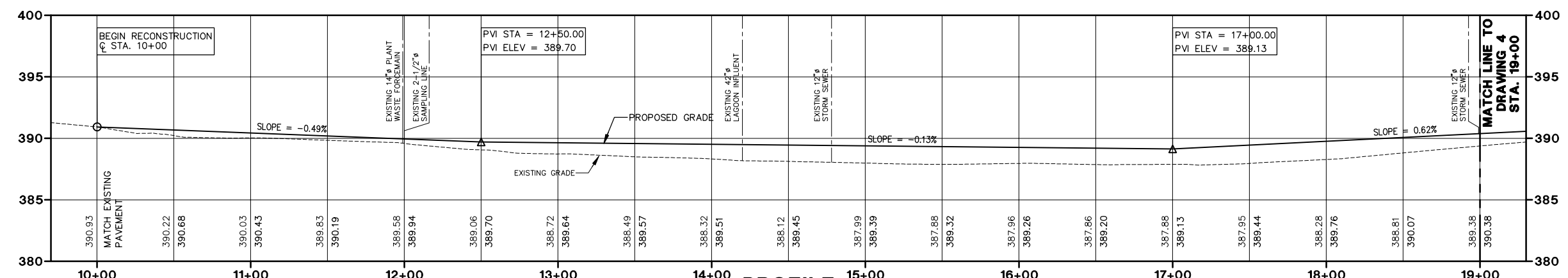
CONTRACT NO. 2

File Number	003.65.102F
Date	FEBRUARY 1999
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	



- NOTES:**
1. NEW LAGOON BYPASS PIPING AND STRUCTURES NOT SHOWN FOR CLARITY (SEE DRAWINGS 11, 12 AND 14). PROPOSED ELECTRICAL NOT SHOWN FOR CLARITY (SEE DRAWING 16).
 2. INSTALL UNDERDRAIN STA. 10+75 60' RIGHT TO DRAIN LOW POINT IN LAWN TO ACCESS ROAD UNDERDRAIN.
 3. CONCRETE TRUCK PAD TO BE PAID UNDER NYSDOT ITEM 608.0101 CONCRETE SIDEWALKS AND DRIVEWAYS.

PLAN
SCALE: 1"=40'



PROFILE
SCALE: HORIZ. 1"=40'
VERT. 1"=5'

X: 00365X00.DWG, 00365X01.DWG
 L: ON*, OFF=*REF
 P: STD-PCP/DL
 1/29/99 SYR-54-AK GMS AK
 00365020/OAK/CONT2/00365G06.DWG

Graphic Scale
 1"=40'
 1"=5'

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init

Project Mgr. JCP
 Designed by DKM
 Drawn by AK
 Checked by JAH
 Prof. Eng. DONALD GEISSER
 PE License N.Y. 57879

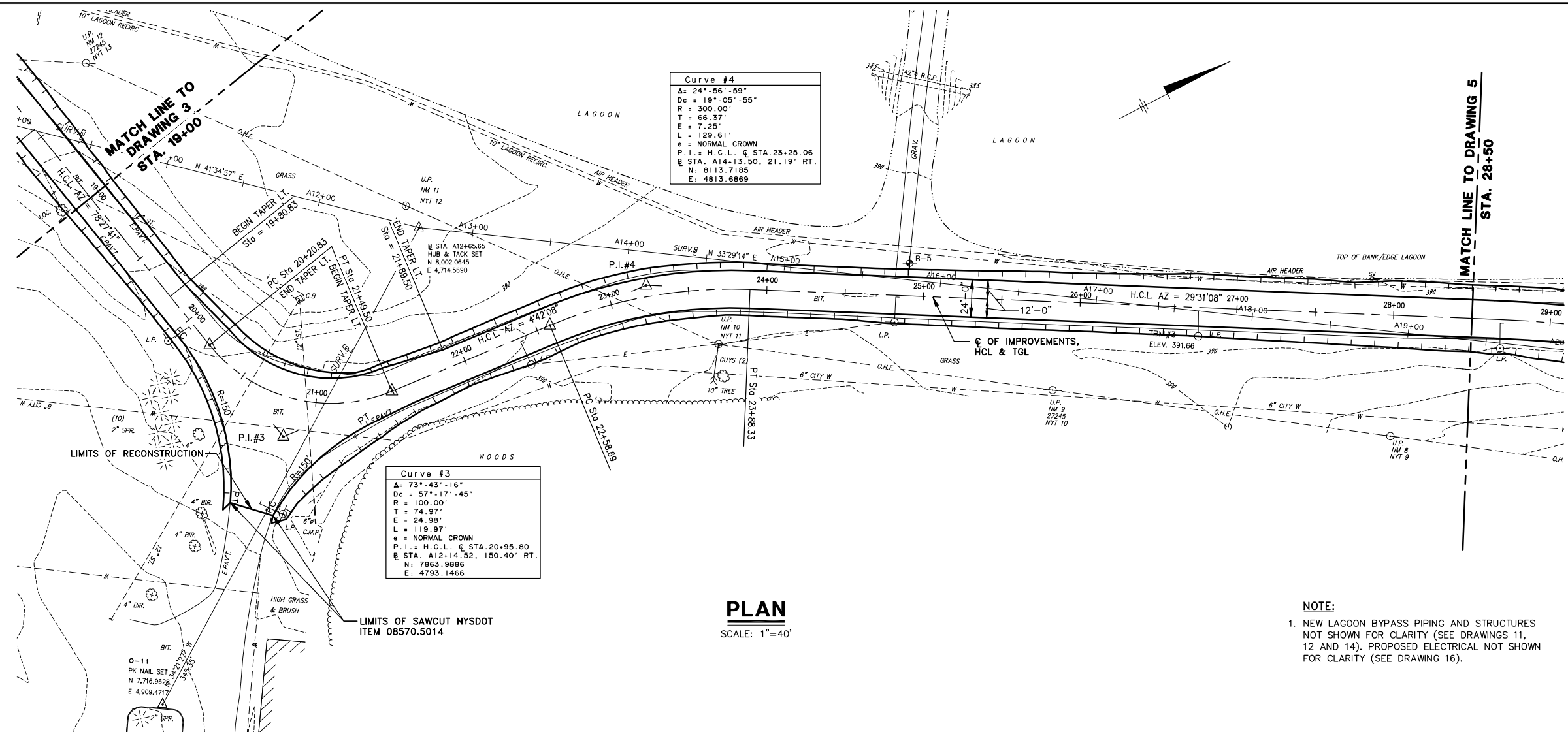
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

ACCESS ROAD - PLAN & PROFILE
STATION 10+00 TO 19+00

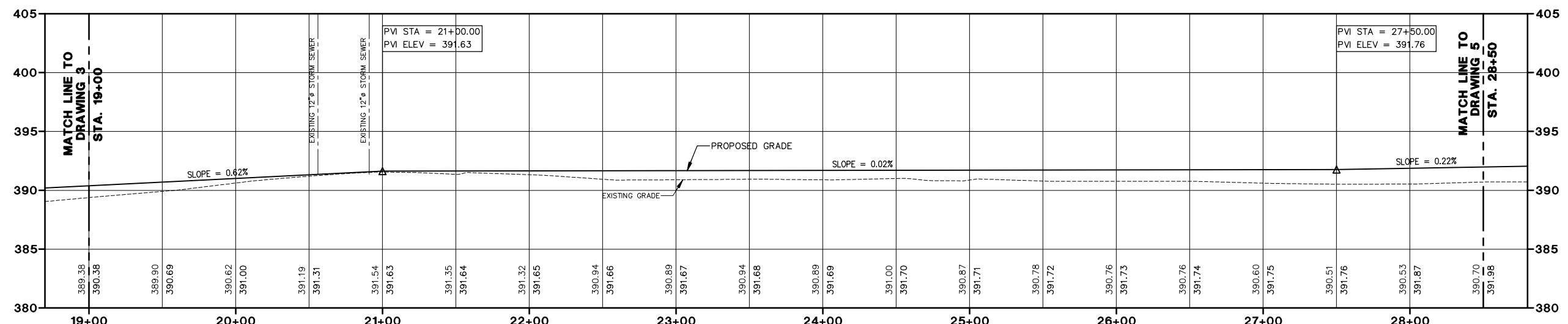
CONTRACT NO. 2

File Number 003.65.103
 Date FEBRUARY 1999
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120



PLAN
SCALE: 1"=40'

NOTE:
1. NEW LAGOON BYPASS PIPING AND STRUCTURES NOT SHOWN FOR CLARITY (SEE DRAWINGS 11, 12 AND 14). PROPOSED ELECTRICAL NOT SHOWN FOR CLARITY (SEE DRAWING 16).



PROFILE
SCALE: HORIZ. 1"=40'
VERT. 1"=5'

X: 00365X00.DWG, 00365X01.DWG
L: ON=*, OFF=*REF
P: STD-PCP/DL
12/29/99 SYR-54-AK GMS AK
00365020/OAK/CONT2/00365G07.DWG

Graphic Scale
1"=40'
1"=5'

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No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- DKM ---
Drawn by --- AK ---
Checked by --- JAH ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---



COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

ACCESS ROAD - PLAN & PROFILE
STATION 19+00 TO 28+50

CONTRACT NO. 2

File Number
003.65.104F

Date
FEBRUARY 1999

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

TABLE OF DRAINAGE NOTES			
DN NO.	STATION	OFFSET	DESCRIPTION
DN-1	30+37	14' RT.	REMOVE & REINSTALL EXISTING GALVANIZED STEEL END SECTION TO H.C.L. STA. 30+35, 31' RT. INVERT ELEV. = 388.19'
DN-2	30+35	15' RT.	INSTALL 48"Ø MANHOLE, H.C.L. 30+35, 15' RT., PAYMENT ITEM NO. 10 NORTH INVERT ELEV. = 387.79' EAST INVERT ELEV. = 387.89' RIM ELEV. = 392.09 INSTALL 15 L.F. OF 18"Ø SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE, NYS DOT ITEM 603.9818. CONNECT TO DN-1.

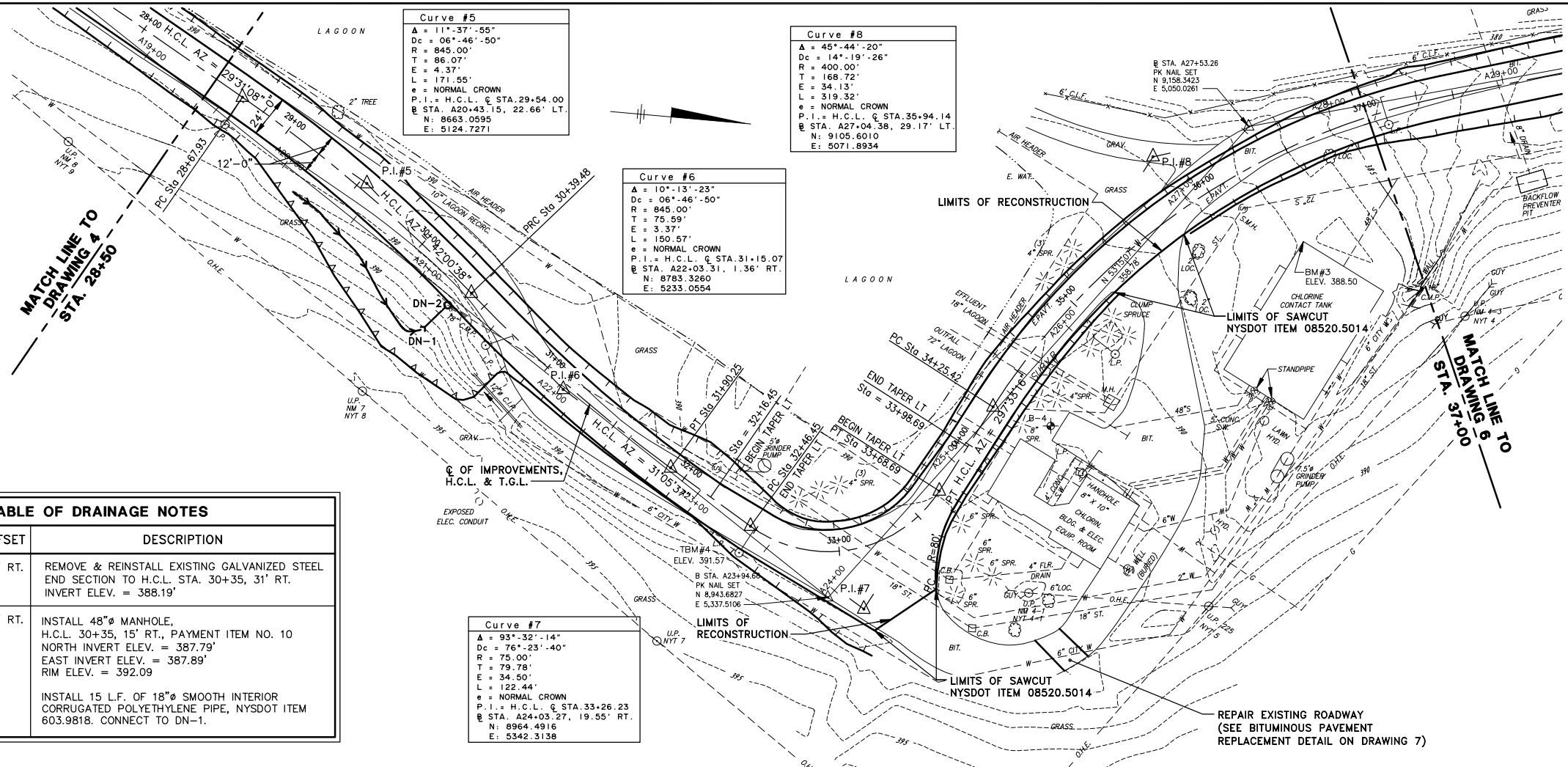
Curve #5
 Δ = 11°-37'-55"
 Dc = 06°-46'-50"
 R = 845.00'
 T = 86.07'
 E = 4.37'
 L = 171.55'
 e = NORMAL CROWN
 P.I. = H.C.L. @ STA. 29+54.00
 B STA. A20+43.15, 22.66' LT.
 N: 8783.3260
 E: 5124.7271

Curve #8
 Δ = 45°-44'-20"
 Dc = 14°-19'-26"
 R = 400.00'
 T = 168.72'
 E = 34.13'
 L = 319.32'
 e = NORMAL CROWN
 P.I. = H.C.L. @ STA. 35+94.14
 B STA. A27+04.38, 29.17' LT.
 N: 9105.6010
 E: 5071.8934

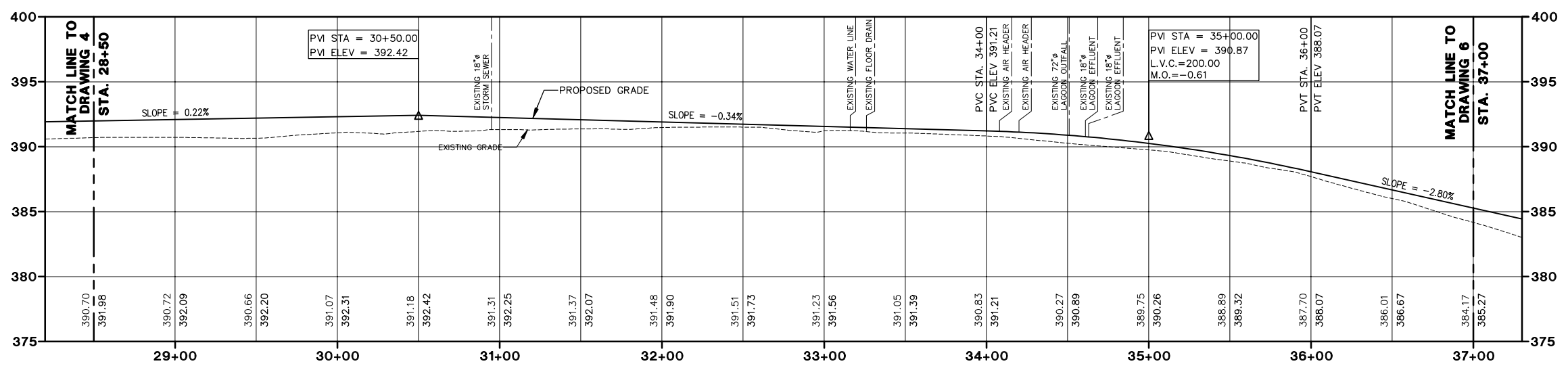
Curve #6
 Δ = 10°-13'-23"
 Dc = 06°-46'-50"
 R = 845.00'
 T = 75.59'
 E = 3.37'
 L = 150.57'
 e = NORMAL CROWN
 P.I. = H.C.L. @ STA. 31+15.07
 B STA. A22+03.31, 1.36' RT.
 N: 8783.3260
 E: 5233.0554

Curve #7
 Δ = 93°-32'-14"
 Dc = 76°-23'-40"
 R = 75.00'
 T = 79.78'
 E = 34.50'
 L = 122.44'
 e = NORMAL CROWN
 P.I. = H.C.L. @ STA. 33+26.23
 B STA. A24+03.27, 19.55' RT.
 N: 8964.4916
 E: 5342.3138

NOTE:
 1. NEW LAGOON BYPASS PIPING AND STRUCTURES NOT SHOWN FOR CLARITY (SEE DRAWINGS 11, 12 AND 14). PROPOSED ELECTRICAL NOT SHOWN FOR CLARITY (SEE DRAWING 16).

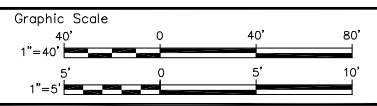


PLAN
 SCALE: 1"=40'



PROFILE
 SCALE: HORIZ. 1"=40'
 VERT. 1"=5'

X: 00365X00, 00365X01
 L: ON=*, OFF=REF
 P: STD-PCP/DL
 1/29/99 SYR-54-AK NES AK
 00365020/OAK/CONT2/00365G08.DWG



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Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

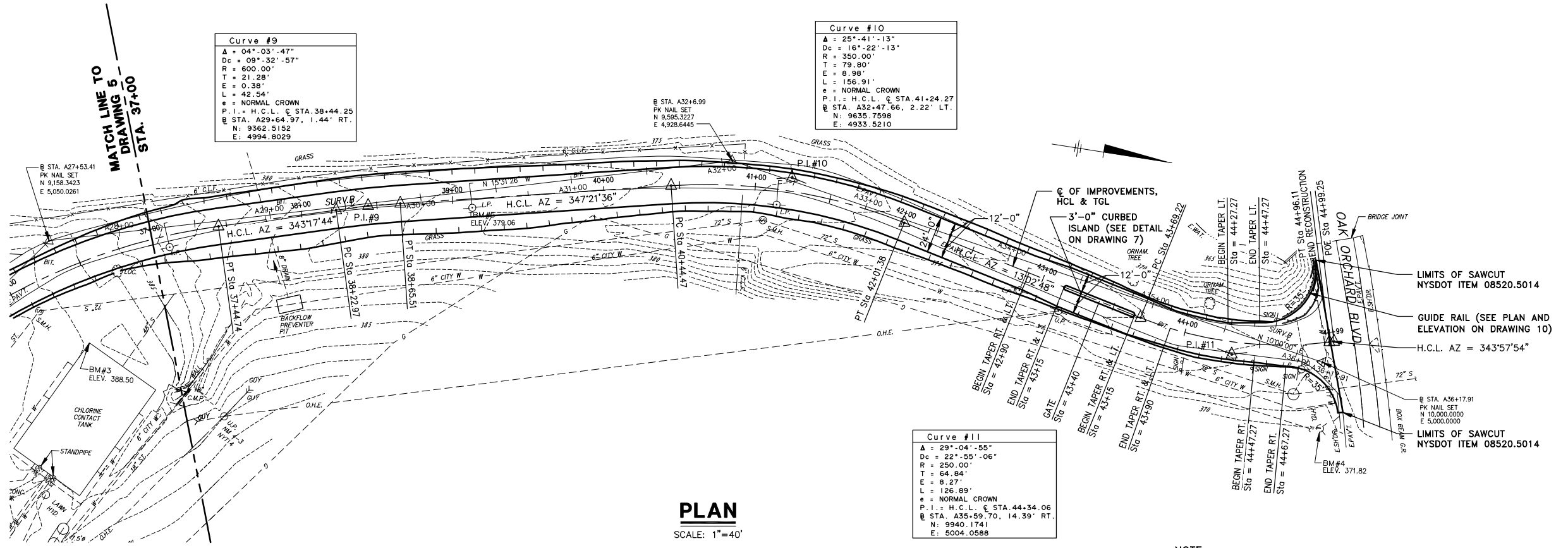
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 OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

ACCESS ROAD - PLAN & PROFILE
STATION 28+50 TO 37+00

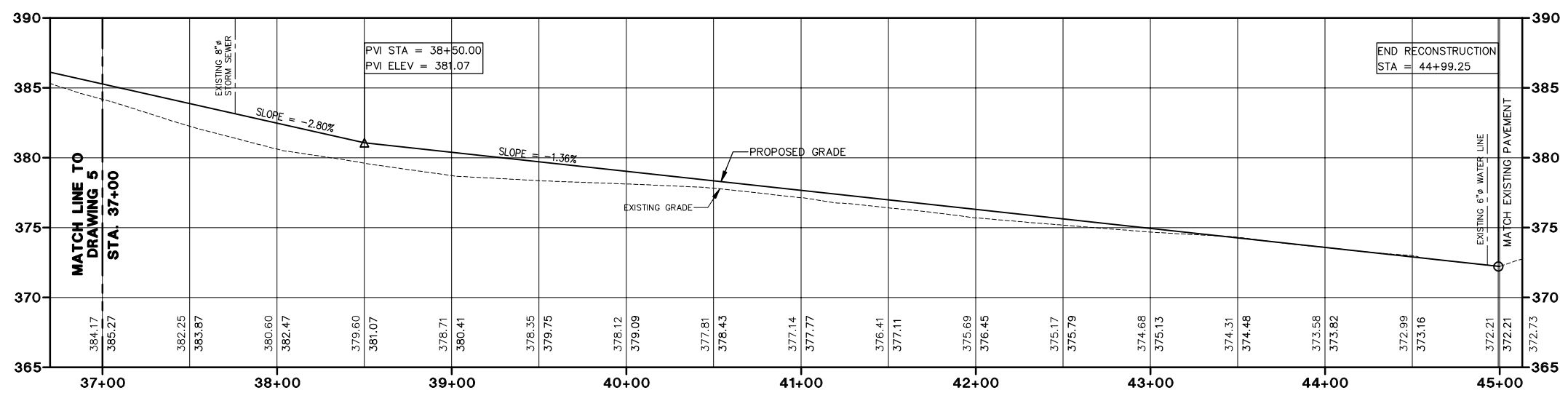
CONTRACT NO. 2

File Number	003.65.105F
Date	FEBRUARY 1999
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	



PLAN
SCALE: 1"=40'

NOTE:
1. PROPOSED GATE & ELECTRICAL NOT SHOWN FOR CLARITY (SEE DRAWING 16).



PROFILE
SCALE: HORIZ. 1"=40'
VERT. 1"=5'

X: 00365X00.DWG, 00365X01.DWG
L: ON=*, OFF=REF
P: STD-PCP/DL
2/3/99 SYR-54-AK AK DCC
00365020/OAK/CONT2/00365G09.DWG

Graphic Scale
 40' 0 40' 80'
 1"=40'
 5' 0 5' 10'
 1"=5'

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

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Project Mgr. JCP
 Designed by DKM
 Drawn by AK
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 PE License N.Y. 57879

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 OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

ACCESS ROAD - PLAN & PROFILE
STATION 37+00 TO 44+99.25

CONTRACT NO. 2

File Number
003.65.106F

Date
FEBRUARY 1999

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

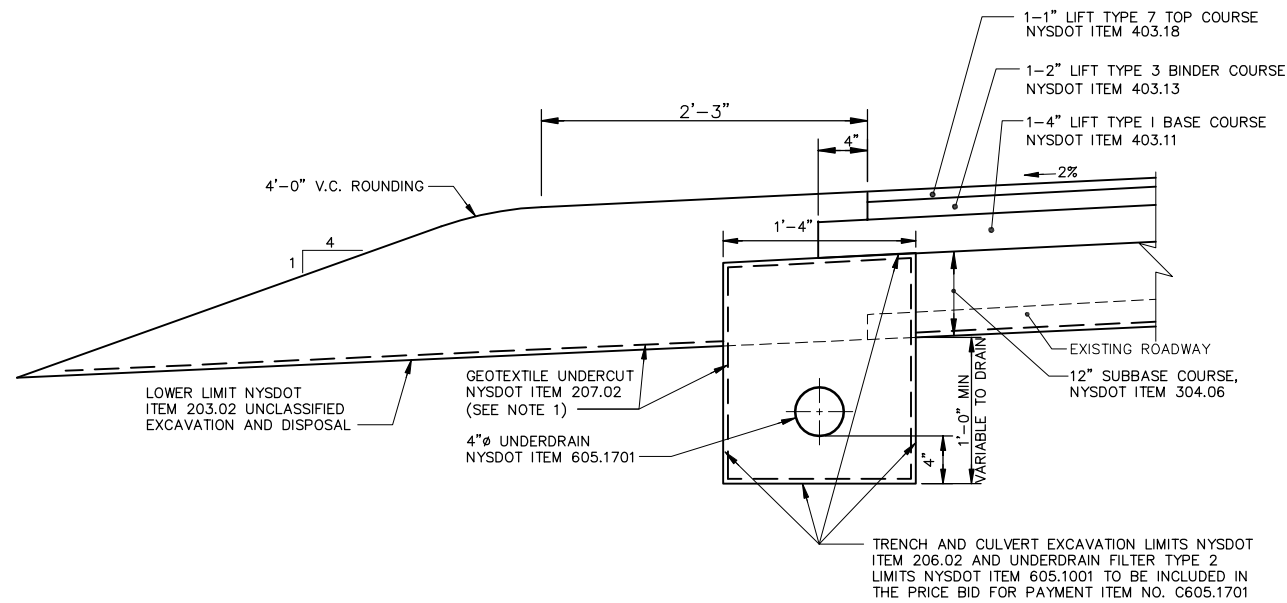
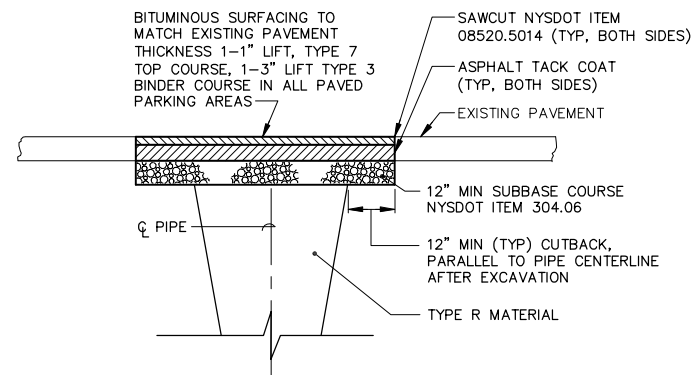


TABLE OF UNDERDRAIN NYS DOT ITEM 605.1701				
H.C.L. STATION	TO H.C.L. STATION	SIDE	LENGTH (FEET)	OUTLET STATION
10+00	12+75	LT.	275	12+75 LEFT
10+00	12+75	RT.	275	12+75 LEFT
12+75	15+50	LT.	275	15+50 LEFT
12+75	16+25	RT.	350	16+25 LEFT
18+25	21+00	RT.	275	21+00 LEFT
19+00	21+25	LT.	225	21+25 LEFT
21+00	23+50	RT.	250	23+50 LEFT
21+25	23+50	LT.	225	23+50 LEFT
23+50	25+75	LT.	225	25+75 LEFT
23+50	26+00	RT.	250	26+00 RIGHT
26+00	28+00	RT.	200	28+00 RIGHT
30+00	32+50	LT.	250	32+50 LEFT
31+75	34+50	RT.	275	35+40 LEFT
32+50	35+00	LT.	250	35+00 LEFT
34+50	37+25	RT.	275	37+25 LEFT
35+00	37+25	LT.	225	37+25 LEFT
39+50	41+25	LT.	175	41+25 LEFT
40+25	41+50	RT.	125	41+50 LEFT
43+25	45+00	RT.	175	45+00 RIGHT
10+75	10+75	RT.	60	12+75 LEFT
60' RT.	RT.			

NOTE
PAYMENT FOR THE GEOTEXTILE UNDERCUT FOR THE
UNDERDRAIN TRENCH SHALL BE INCLUDED IN THE
PRICE BID FOR PAYMENT ITEM NO. C605.1701.

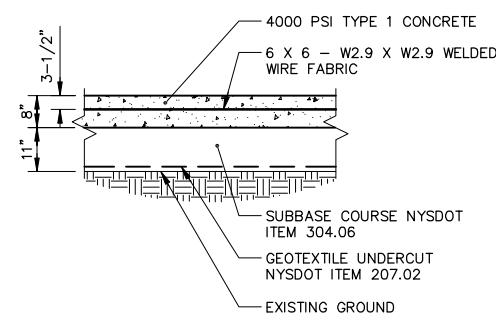
EDGE OF PAVEMENT & UNDERDRAIN DETAIL

NOT TO SCALE



BITUMINOUS PAVEMENT REPLACEMENT DETAIL

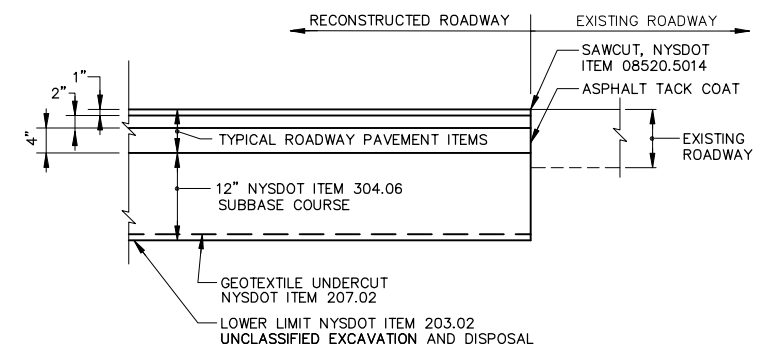
NOT TO SCALE



NOTE
CONCRETE TRUCK PAD TO BE PAID UNDER NYSDOT
ITEM 608.0101 CONCRETE DRIVEWAYS AND SIDEWALKS.

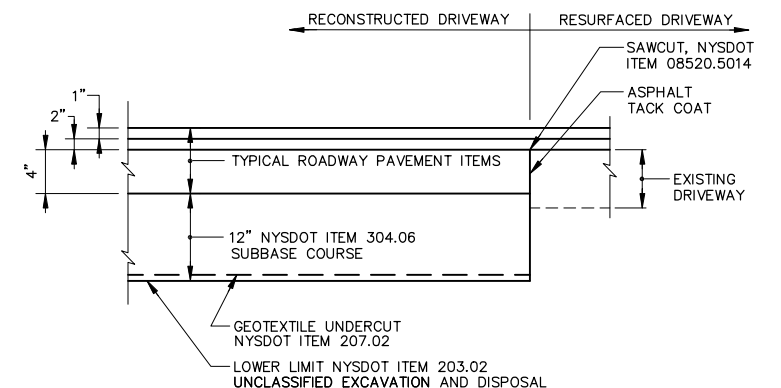
CONCRETE TRUCK PAD DETAIL

NOT TO SCALE



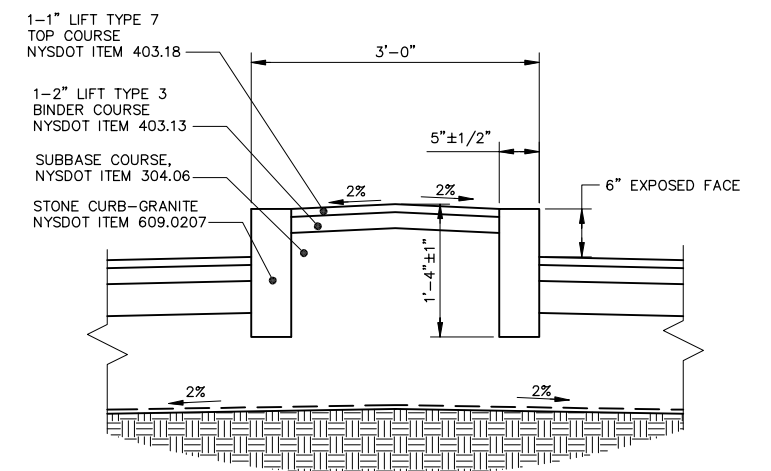
PAVEMENT RECONSTRUCTION TERMINATION DETAIL

NOT TO SCALE



TRANSITION FROM RESURFACED TO RECONSTRUCTED DRIVEWAY

NOT TO SCALE



CURBED ISLAND DETAIL

NOT TO SCALE

X: NONE
L: ON=*, OFF=REF
P: STD-PCP/DL
1/29/99 SYR-54-NES RJM AK
00365020/OAK/CONT2/00365G12.DWG

Graphic Scale	No.	Date	Revisions	Init
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Project Mgr. --- JCP ---
Designed by --- DKM ---
Drawn by --- AK ---
Checked by --- JAH ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

**ACCESS ROAD
MISCELLANEOUS DETAILS & TABLE**

CONTRACT NO. 2

File Number
003.65.107F

Date
FEBRUARY 1999

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

GENERAL

THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE NYS DOT STANDARD SPECIFICATIONS AND THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (NYS MUTCD) OR AS ORDERED BY ENGINEER (AOBE).

FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS, THE PROVISIONS OF SUBCHAPTERS G AND H OF THE NYS MUTCD SHALL APPLY. WHERE OPTIONS EXIST FOR SIGN SHAPE, THE DIAMOND SHAPE SHALL BE USED. THE STANDARDS OF APPLICATION NOTED THEREIN AND ON THE PLANS ARE TO BE CONSIDERED MINIMUM STANDARDS.

LANE CLOSURES

THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN. THE MINIMUM WIDTH OF A TRAVELED LANE SHALL BE 12 FEET.

THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AND SHALL PROVIDE FLAGGERS. AOBE TO CONTROL TRAFFIC MOVEMENTS AT THE SITE OF WORK OPERATIONS REQUIRING TEMPORARY CLOSING OF PORTIONS OF THE TRAVELED WAY. ONE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES.

SHORT DURATION LANE CLOSURES ARE DAILY LANE CLOSURES AND ARE COMPLETELY REMOVED AT THE END OF THE WORK DAY.

CONES, DRUMS, BARRICADES, VERTICAL PANELS, AND MARKERS

WHEN POSSIBLE, ALL CHANNELIZATION/DELINEATION DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE TO THE TRAVELED WAY. THE CONTRACTOR SHALL MAKE CERTAIN THAT PLACEMENT OF CONES, DRUMS, VERTICAL PANELS, AND MARKERS OR BARRICADES SHALL NOT INTERFERE WITH SIGHT DISTANCE.

ANY CHANNELIZATION DEVICE POSTED DURING THE HOURS OF DARKNESS SHALL BE EITHER DRUMS OR 1 FOOT X 2 FOOT VERTICAL PANELS.

LONGITUDINAL SPACING SHALL BE 1 FOOT FOR EVERY MPH OF THE SPEED LIMIT BUT NOT MORE THAN 40 FEET, I.E., 30 MPH = 30 FOOT SPACING. REDUCED SPACING MAY BE REQUIRED AOBE.

A DRUM MOUNTED WITH A TYPE B FLASHING HIGH INTENSITY WARNING LIGHT SHALL BE PLACED ON ALL APPROACHES TO A BUMP OR DIP IN THE PAVEMENT (A PAVEMENT CONDITION CONSIDERED BY THE ENGINEER TO BE SUFFICIENTLY ABRUPT ENOUGH TO CAUSE CONSIDERABLE DISCOMFORT, CARGO SHIFTING, OR DEFLECTION OF A VEHICLE FROM ITS TRUE COURSE AT PREVAILING DRIVING SPEEDS). THE COST OF THESE DRUMS AND LIGHTS SHALL BE INCLUDED IN THE PRICE BID FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

WHERE POSSIBLE A LATERAL BUFFER SPACE OF 1 FOOT SHOULD BE PROVIDED BETWEEN THE WORK ZONE AND THE LINE OF DELINEATION DEVICES.

CONSTRUCTION INGRESS AND EGRESS

THE CONTRACTOR SHALL KEEP TO A MINIMUM MOVEMENTS OF CONSTRUCTION VEHICLES AND EQUIPMENT IN AND OUT OF DESIGNATED TRAVEL LANES. ONLY NECESSARY OR AUTHORIZED VEHICLES AS DETERMINED BY THE ENGINEER SHALL BE ALLOWED TO ENTER ANY PHASED WORK AREA.

VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED WITHIN THE CLEAR ZONE, AS DETERMINED BY THE ENGINEER, ALONG A ROADWAY USED BY THE GENERAL PUBLIC (OR ANY OTHER AREAS DEEMED HAZARDOUS BY THE ENGINEER-IN-CHARGE).

VEHICLES PARKED BEHIND GUIDE RAIL/BARRIER SHALL BE PARKED BEYOND THE DEFLECTION DISTANCE OF THE RAIL.

WORK ZONE COORDINATION

WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAPPING, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL ENSURE THERE IS NO CONFLICT IN SIGNING AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

THE CONTRACTOR SHALL COORDINATE ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE, OR OTHER CONSTRUCTION OPERATIONS IN THE AREA, AND IS RESPONSIBLE TO ENSURE PROPER MAINTENANCE AND PROTECTION OF TRAFFIC IS OBTAINED FOR ALL CONDITIONS.

MISCELLANEOUS

ALL ROADWAY AREAS TEMPORARILY CLOSED FOR TRENCH, CULVERT, OR CONDUIT EXCAVATION OR EXCAVATION REQUIRED FOR ALTERING DRAINAGE STRUCTURES SHALL BE REOPENED AT THE END OF THE WORK DAY. AT ALL TIMES WHEN WORK IS NOT IN PROGRESS, ALL OPENINGS SHALL BE COVERED WITH ANCHORED STEEL PLATES OR SHALL BE BACKFILLED IN ACCORDANCE WITH THE SPECIFICATIONS AS ORDERED BY THE ENGINEER. THE TEMPORARY RESTORATION SHALL BE COMPLETED WITH A LAYER OF PLANT MIX BITUMINOUS MATERIAL UP TO A LEVEL OF THE ADJACENT UNEXCAVATED AREA TO THE SATISFACTION OF THE ENGINEER. IF ANCHORED STEEL PLATES ARE THE CHOSEN OPTION, THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF ANCHORING THE STEEL PLATES TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY ROADWAY EXCAVATION. THE STEEL PLATES SHALL BE RAMPED WITH A BITUMINOUS MATERIAL PRIOR TO OPENING THE LANE. THE COST OF THIS WORK, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND ANY REEXCAVATION OF TEMPORARY RESTORED AREAS SHALL BE INCLUDED IN THE PRICE BID FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

GUIDE RAIL WORK

ALL FREE ENDS OF GUIDE RAIL SHALL BE TEMPORARILY TERMINATED IN THE SAME METHOD AS SUBSECTION 619-3.01 J IN THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

12 IN X 24 IN VERTICAL PANELS (C6-1, C6-2 IN THE NYS MUTCD) MOUNTED ON 2 IN X 2 IN WOODEN STAKES SHALL BE PROVIDED AT 40 FT INTERVALS WHEN RAIL IS DOWN AOBE. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

PRELIMINARY WORK

PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED MAINTENANCE AND PROTECTION OF TRAFFIC, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES, BUT IS NOT LIMITED TO: ALL SIGNS, DELINEATION (CONES, DRUMS, ETC), FLAGGERS, PAVEMENT MODIFICATION, AND ANY OTHER RELATED WORK.

FLAGGER

WHEN FLAGGERS ARE BEING USED FOR TRAFFIC CONTROL PURPOSES, FLAGGER SIGNS (W8-22E) SHALL BE PLACED AOBE ON ALL APPROACHES TO THE AREAS BEING FLAGGED. THE COST OF FLAGGER SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC. FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.

STOP/SLOW PADDLES SHALL CONFORM TO THE REQUIREMENTS IN THE NYS MUTCD BUT SHALL BE A MINIMUM WIDTH OF 2'-0". THE COST IF THESE PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE PRICE BID FOR FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. AT ALL TIMES THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH, FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES. A SUFFICIENT NUMBER OF FLAGGERS SHALL BE UTILIZED, AS DIRECTED BY THE ENGINEER, SUCH THAT EACH FLAGGER SHALL CONTROL NO MORE THAN ONE APPROACH OF TRAFFIC. WHEN SIGNALING, FLAGGERS SHALL USE THEIR FREE HAND FOR EMPHASIS, AS DESCRIBED UNDER SECTION 293.3 OF THE MUTCD.

THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCES ARE IMPAIRED BY THE OPERATION OR ANY OTHER SITUATION AOBE.

FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY, WALKIE-TALKIES, OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR NYS DOT ITEM 619.01 BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

TRAFFIC MAINTENANCE NOTES

1. ALL EXISTING ROADS INTERSECTING THE HIGHWAY SHALL REMAIN OPEN TO TWO-WAY TRAFFIC AT ALL TIMES UNLESS AUTHORIZED BY THE ENGINEER.
2. IN ORDER TO MAINTAIN EFFECTIVE TRAFFIC CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS MAINTENANCE: MAKING SURE ALL SIGNS, CONES, BARRICADES, ETC. ARE IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARDS PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE ENGINEER.
3. THE CONTRACTOR SHALL NOT PARK HIS EQUIPMENT OR STORE MATERIAL OVERNIGHT WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD TO THE PUBLIC. GENERALLY, 30 FT OF CLEAR AREA BETWEEN THE EDGE OF PAVEMENT TO STORED MATERIAL OR EQUIPMENT IS TO BE MAINTAINED.
4. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENT, CURB AND SIDEWALKS WHEN IT IS NECESSARY FOR HIM TO MOVE HIS EQUIPMENT. IN THIS REGARD, HE SHALL OBSERVE ALL THE RULES AND REGULATIONS AND DIRECTIONS OF THE LOCAL AUTHORITIES RELATIVE TO SUCH HANDLING OF EQUIPMENT AND TAKE SUCH PROTECTIVE MEASURES AS MAY BE ORDERED BY THE ENGINEER. PAVEMENT, CURB AND SIDEWALK OUTSIDE OF THE LIMIT OF WORK DAMAGED BY THE CONTRACTOR THROUGH DISREGARD OF THESE PROVISIONS, SHALL BE RESTORED AT HIS/HER SOLE COST AND EXPENSE TO EQUAL OR BETTER CONDITION.

X: 00365X00
L: ON=*, OFF=REF
P: STD-PCP/DL
1/29/99 SYR-54 AK GMS AK
00365020/OAK/CONT2/00365G04.DWG

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Designed by --- DKM ---
Drawn by --- AK ---
Checked by --- JAH ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

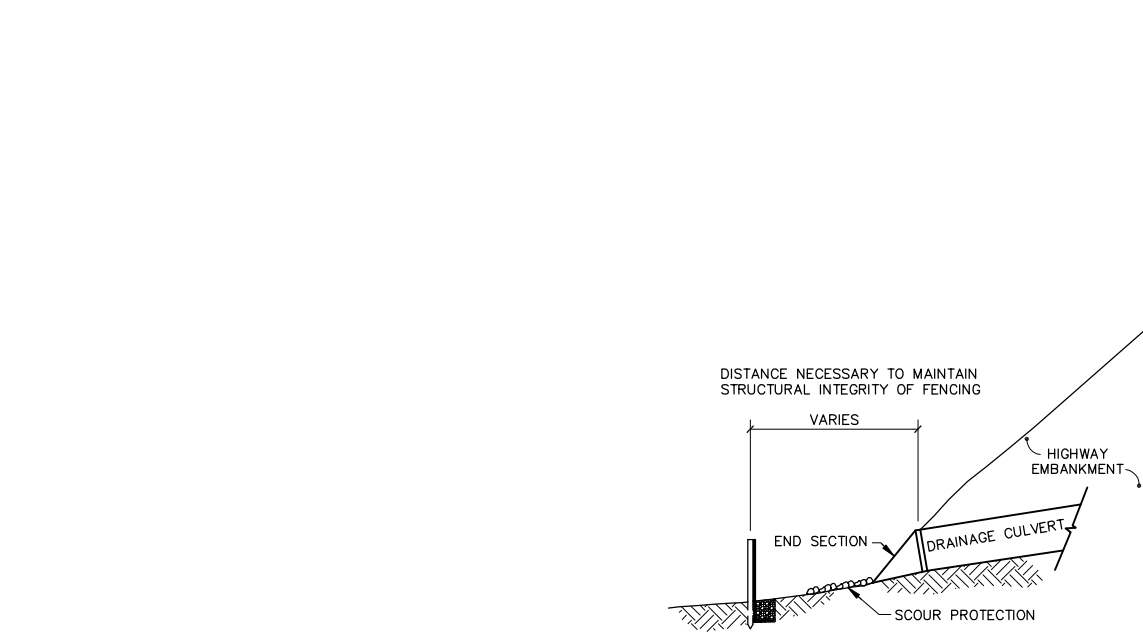


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OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

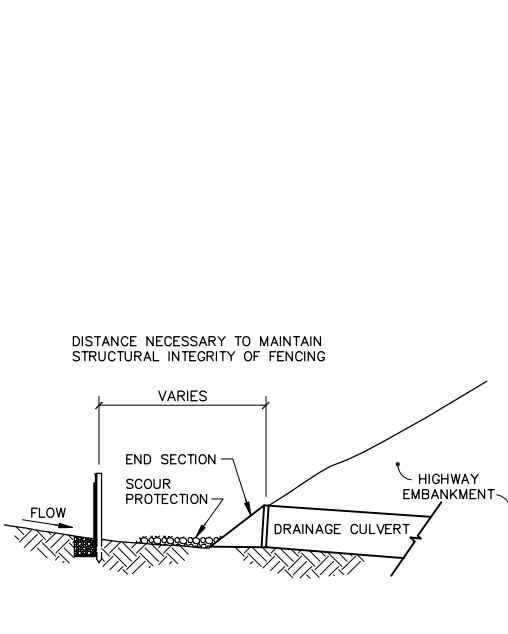
MAINTENANCE & PROTECTION OF TRAFFIC NOTES

CONTRACT NO. 2

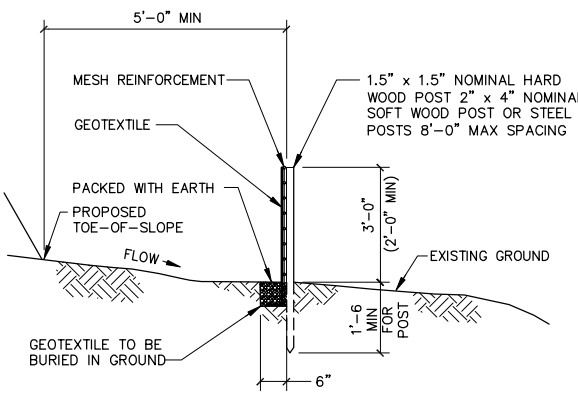
File Number 003.65.108F
Date FEBRUARY 1999
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120



SECTION B-B'



SECTION A-A'

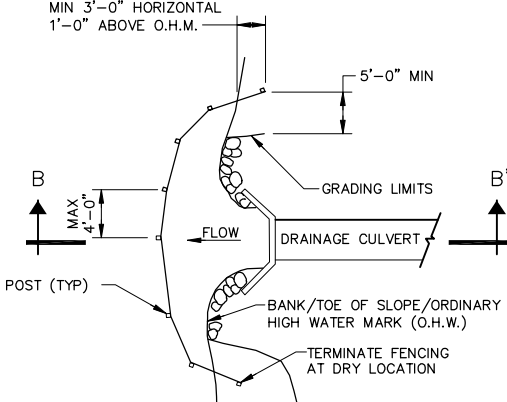


ELEVATION

SILT FENCE TYPE A

NOT TO SCALE

LOCATION TABLE			
H.C.L. STATION	TO H.C.L. STATION	SIDE	LENGTH (FEET)
15+00	17+50	LT.	250
23+50	35+50	LT.	1200
36+50	42+50	LT.	600

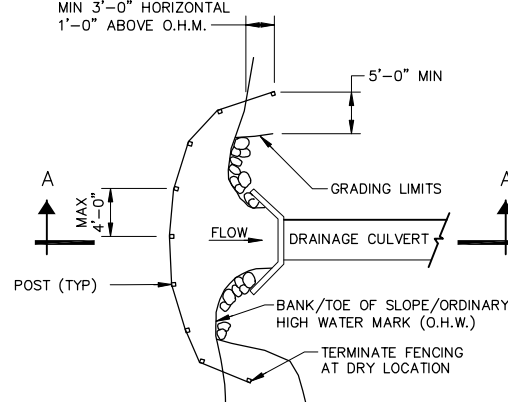


PLAN

SILT FENCE TYPE D

NOT TO SCALE

LOCATION TABLE	
H.C.L. STATION	SIDE
37+50	RT.

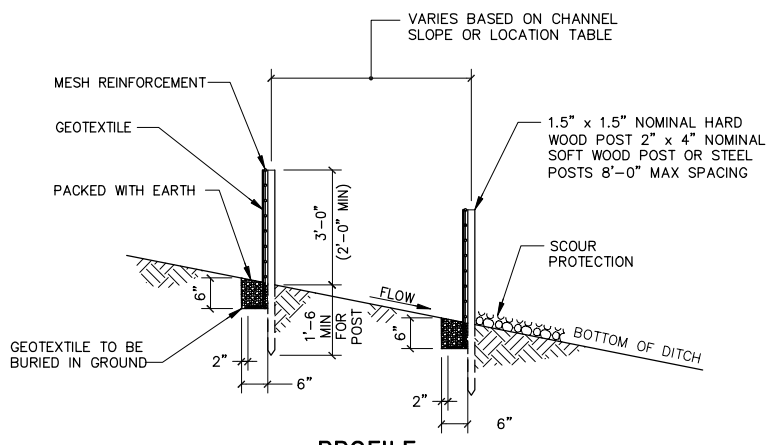


PLAN

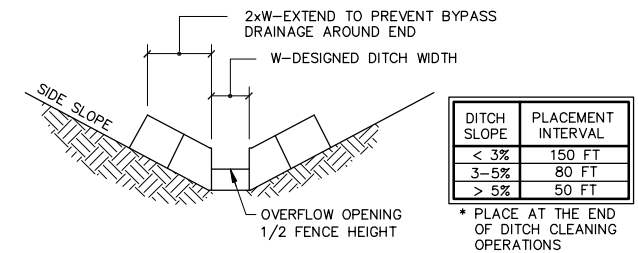
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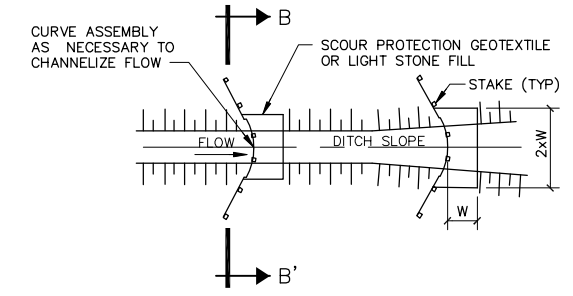
LOCATION TABLE		
H.C.L. STATION	SIDE	REMARK
30+35	LT.	DN1
30+35	LT.	DN2



PROFILE BOTTOM OF DITCH



SECTION B-B'



PLAN

CHECK DAM SILT FENCE

NOT TO SCALE

LOCATION TABLE		
H.C.L. STATION	TO H.C.L. STATION	SIDE
28+00	30+35	RT.
38+00	43+00	RT.

GENERAL NOTE
THE ELEMENTS OF THIS PAGE KNOWN AS "STORMWATER POLLUTION PREVENTION AND EROSION CONTROL PLAN" SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.

- NOTES**
1. ALL CONTROLS SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.
 2. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION PROCEDURES.
 3. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
 4. PERIODIC CLEANING AND INSPECTION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES WILL BE NECESSARY. MAINTENANCE OF THESE DEVICES IS REQUIRED AFTER ANY STORM EVENT.
 5. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES WILL BE NECESSARY. MAINTENANCE OF THESE DEVICES IS REQUIRED AFTER ANY STORM EVENT.
 6. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PAID FOR UNDER THE ITEMS SHOWN.
 7. IN THE EVENT DEWATERING OPERATION BECOMES NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM.
 8. NO DISCHARGE OF TEMPORARY FILL MATERIAL INTO ANY WATERWAY IS PERMITTED.
 9. ANY ACCESS WAYS OR DETOURS SHALL BE COMPLETELY ISOLATED WITH EROSION CONTROL TREATMENTS.

X: 00365X00.DWG
L: ON=*, OFF=*REF
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1/29/99 SYR-54 RJM AK
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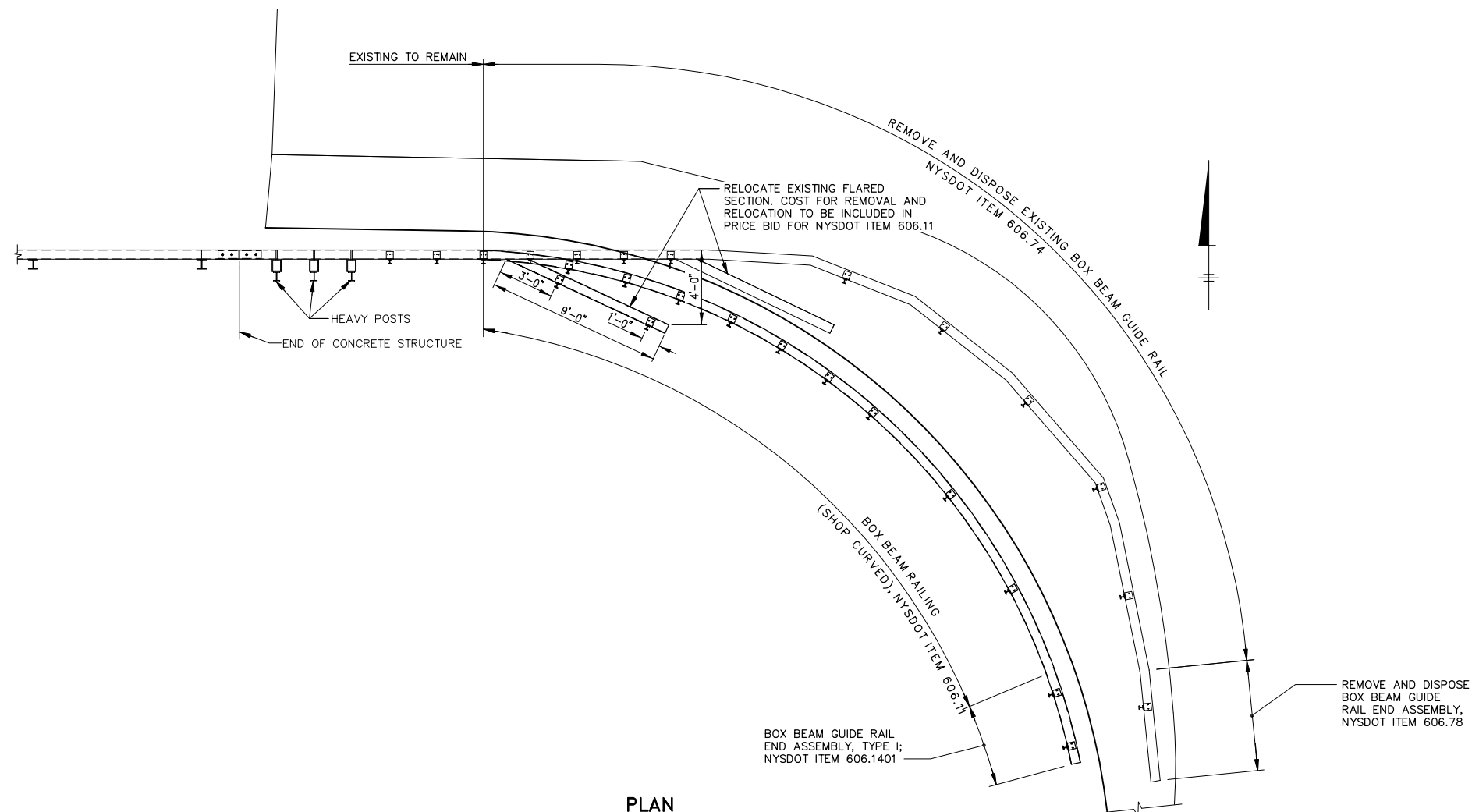
No.	Date	Revisions	Init

Project Mgr. JCP
Designed by DKM
Drawn by AK
Checked by JAH
Prof. Eng. DONALD GEISSER
PE License N.Y. 57879



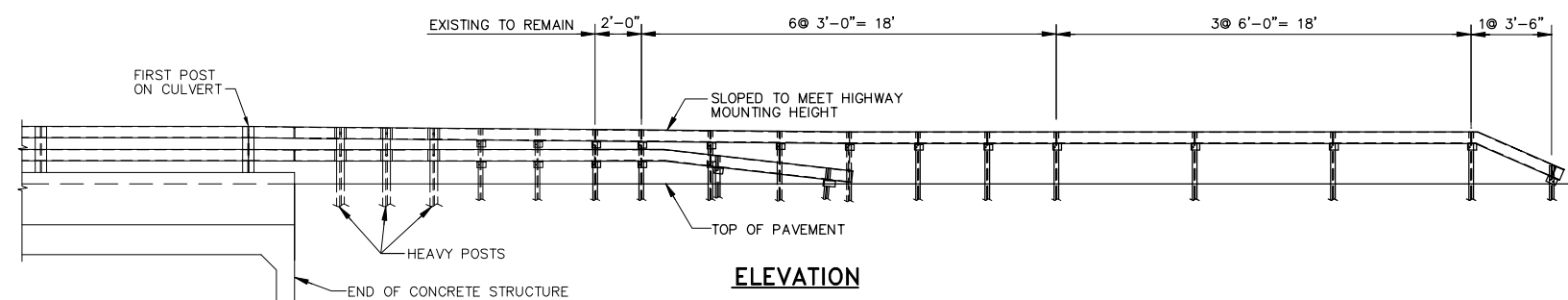
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS
SOIL EROSION AND WATER POLLUTION CONTROL DETAILS
CONTRACT NO. 2

File Number 003.65.109F
Date FEBRUARY 1999
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



NOTES

1. ALL NUTS SHALL EITHER BE TACK WELDED IN PLACE AND THE GALVANIZING REPAIRED ACCORDING TO SUBSECTION 719-01 OR SHALL HAVE LOCK WASHERS.
2. ALL COMPONENTS OF THE RAILING SYSTEM SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 719-01 OF THE STANDARD SPECIFICATIONS AFTER FABRICATION.
3. ALL RAILING IS FABRICATED AND ERECTED SO THAT THE RAILS ARE PARALLEL TO THE ROADWAY AND SO THAT THE POSTS ARE TRULY VERTICAL.
4. ALL BOLTS SHALL HAVE A CLASS 2A THREAD FIT PRIOR TO GALVANIZING.
5. GRIND ALL EDGES OF BASE PLATES SO THAT ALL SHARP EDGES ARE REMOVED PRIOR TO GALVANIZING.



BOX BEAM GUIDE RAIL

NOT TO SCALE

X: 00365X00
L: ON=*, OFF=REF
P: STD-PCP/DL
1/29/99 SYR-54 AK RJM AK
00365020/OAK/CONT2/00365G02.DWG

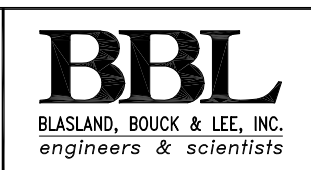
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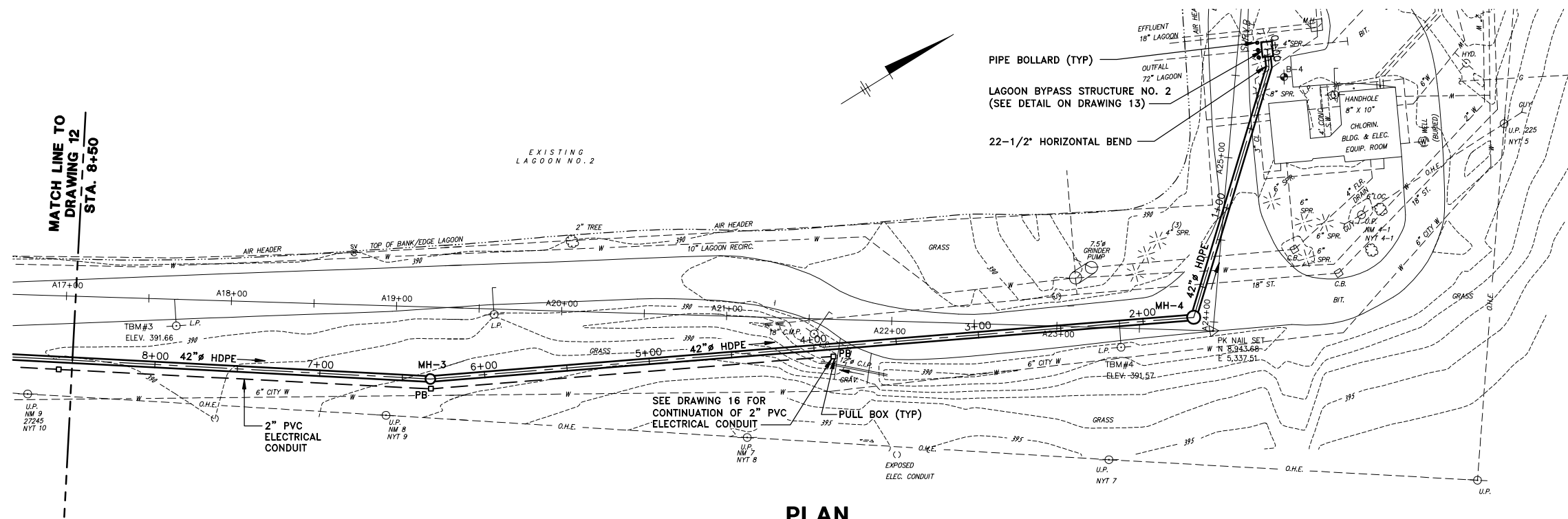


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OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

BOX BEAM GUIDE RAIL PLAN AND ELEVATION

CONTRACT NO. 2

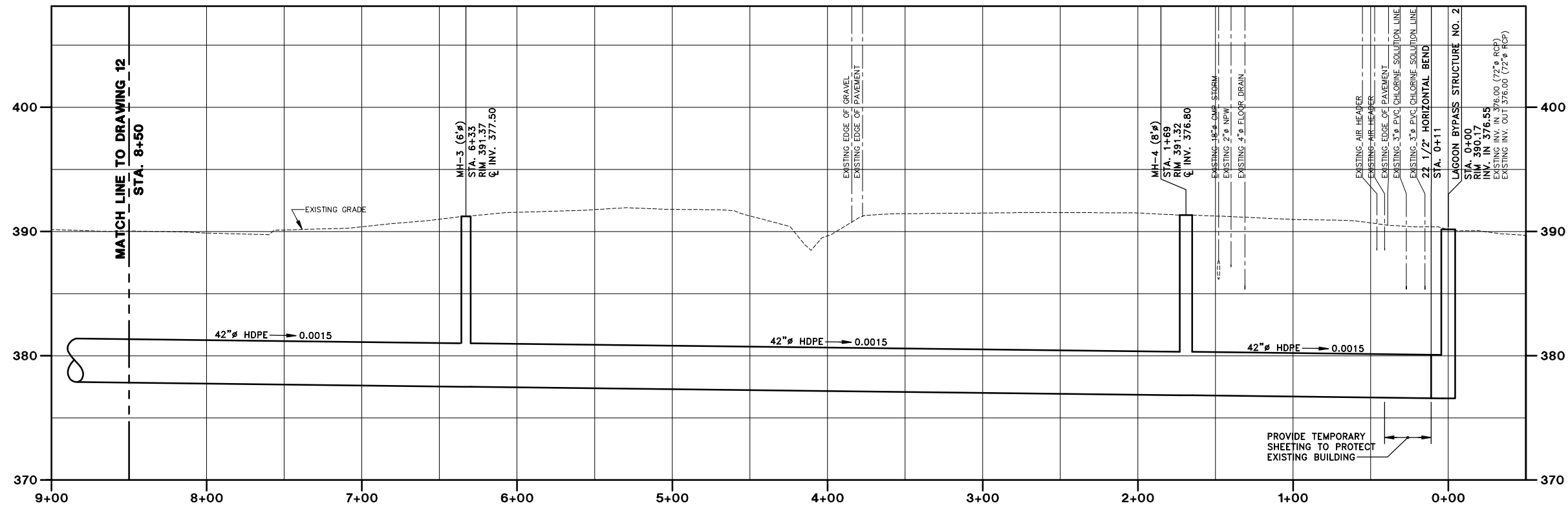
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PLAN

SCALE: 1"=40'

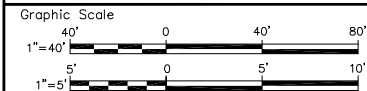
NOTE:
NEW ACCESS ROAD NOT SHOWN FOR CLARITY.



PROFILE

SCALE: HORIZ. 1"=40'
VERT. 1"=5'

X: 00365X00.DWG, 00365X01.DWG
L: ON=*, OFF=REF
P: STD-PCP/DL
1/29/99 SYR-54-AK DCC AK
00365020/OAK/CONT2/00365G13.DWG



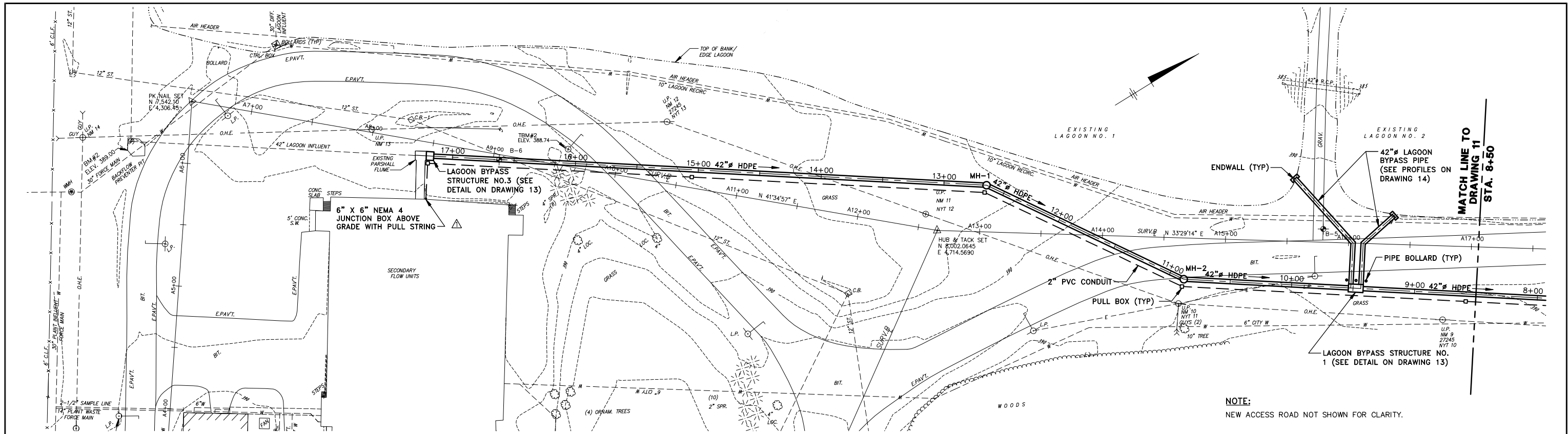
No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- SAS ---
Drawn by --- AK ---
Checked by --- JCP ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---



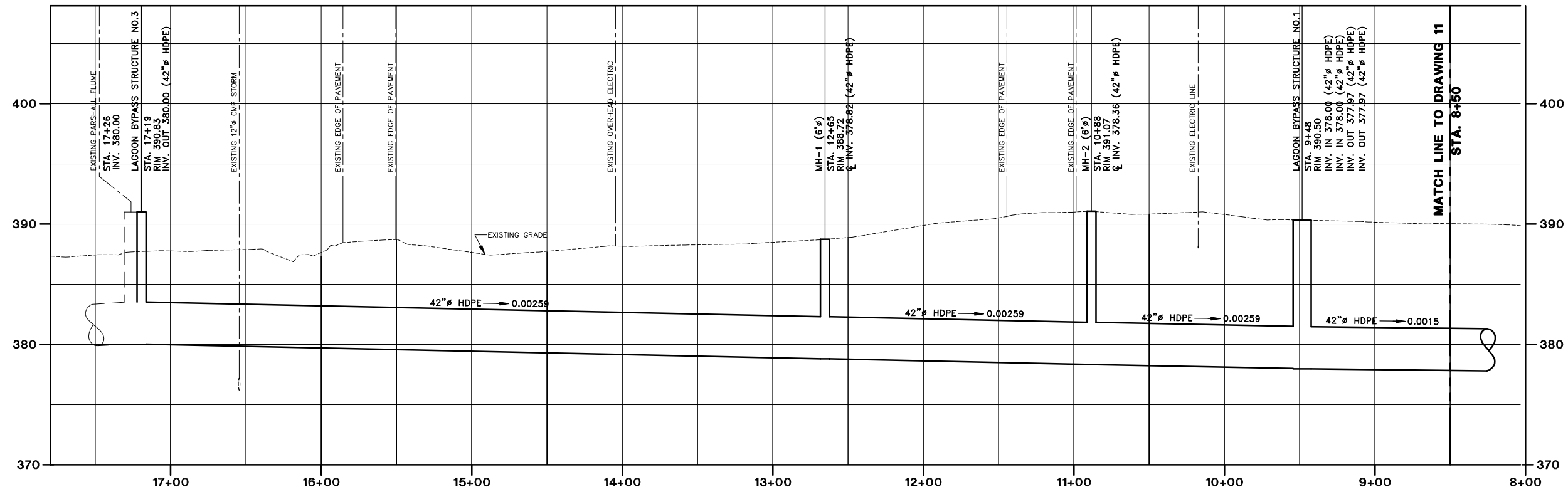
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS
LAGOON BYPASS - PLAN & PROFILE
STATION 0+00 TO 8+50
CONTRACT NO. 2

File Number
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Date
FEBRUARY 1999
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
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Syracuse, NY 13214
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PLAN

SCALE: 1"=40'



PROFILE

SCALE: HORIZ. 1"=40'
VERT. 1"=5'

X: 00365X00.DWG, 00365X01.DWG
L: ON=*, OFF=*REF
P: STD-PCP/DL
3/8/99 SYR-54-AK GMS AK
00365020/OAK/CONT2/00365G14.DWG



No.	Date	Revisions	Init
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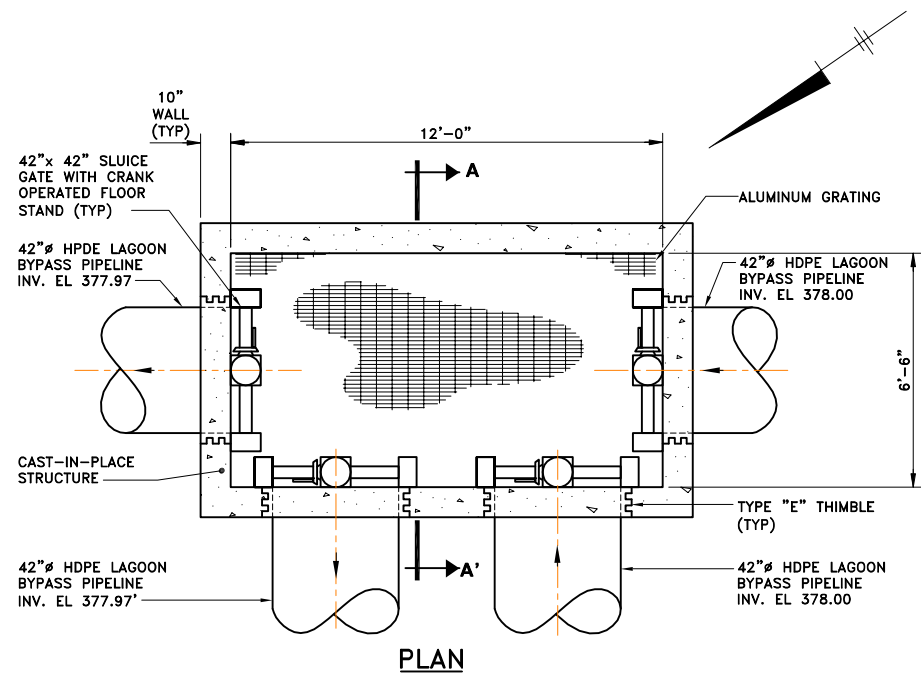
Project Mgr.	JCP
Designed by	SAS
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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BLASLAND, BOUCK & LEE, INC.
engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS
LAGOON BYPASS - PLAN & PROFILE
STATION 8+50 TO 17+19

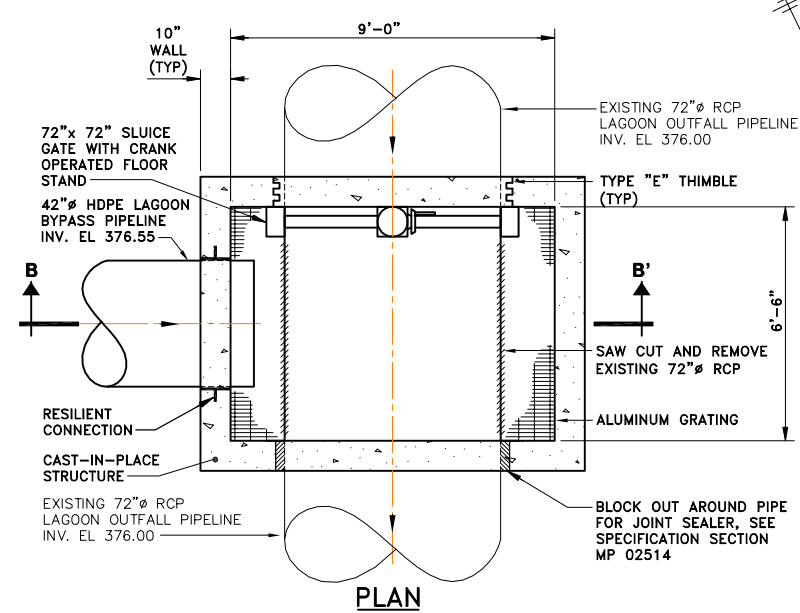
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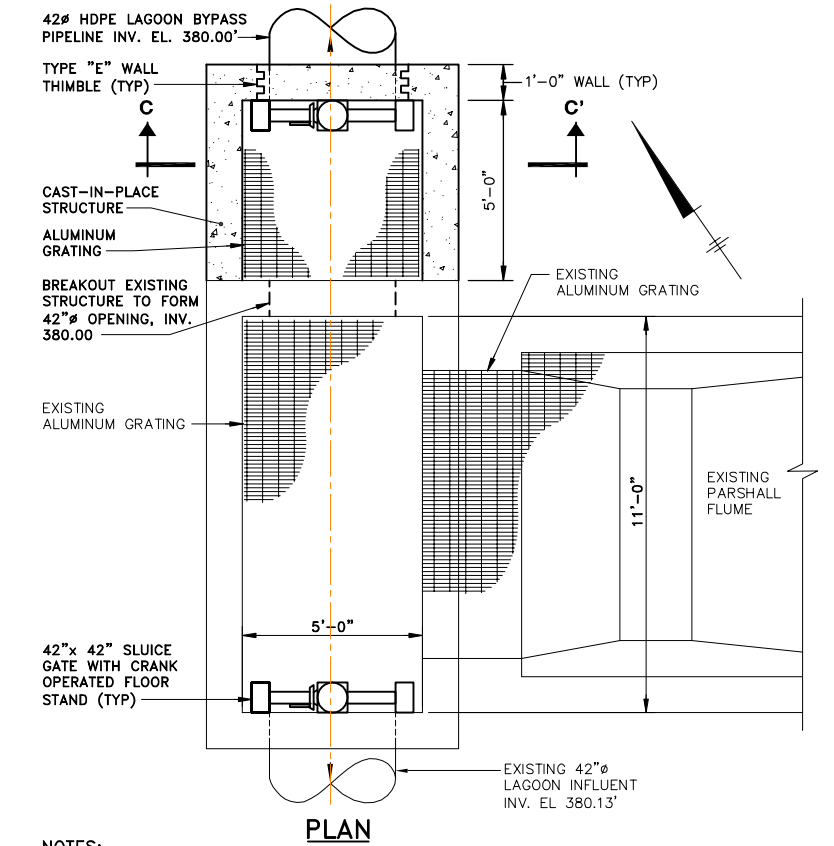
PLAN

NOTE:
SEE REINFORCING DETAILS ON DRAWING 15.



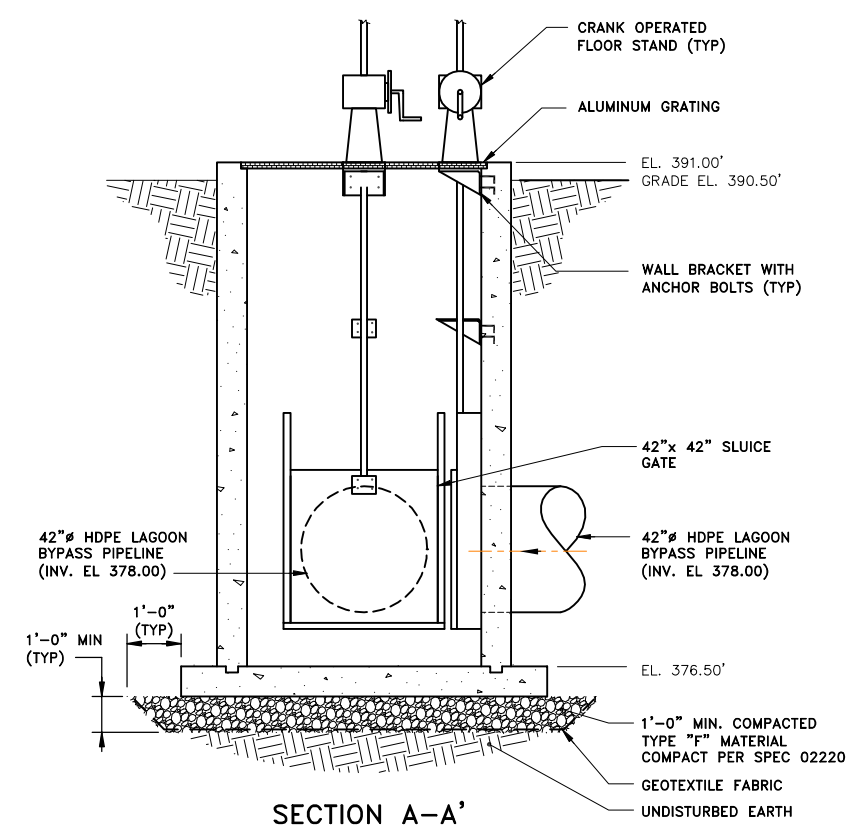
PLAN

NOTE:
SEE REINFORCING DETAILS ON DRAWING 15.

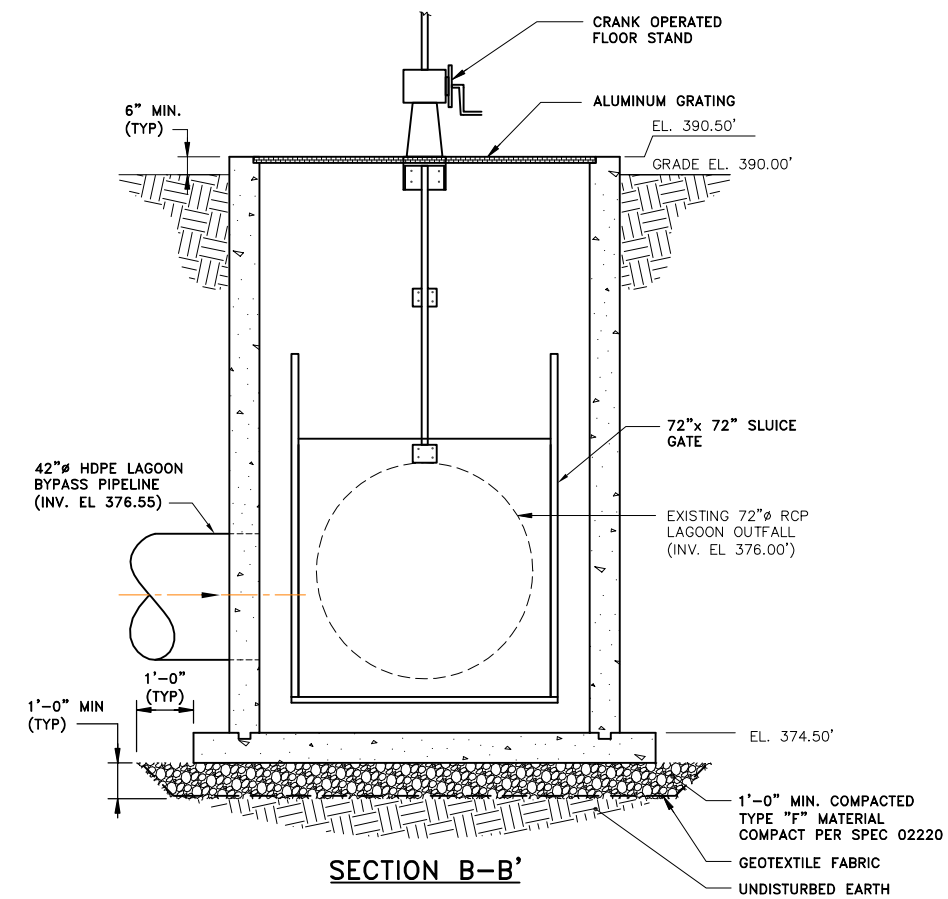


PLAN

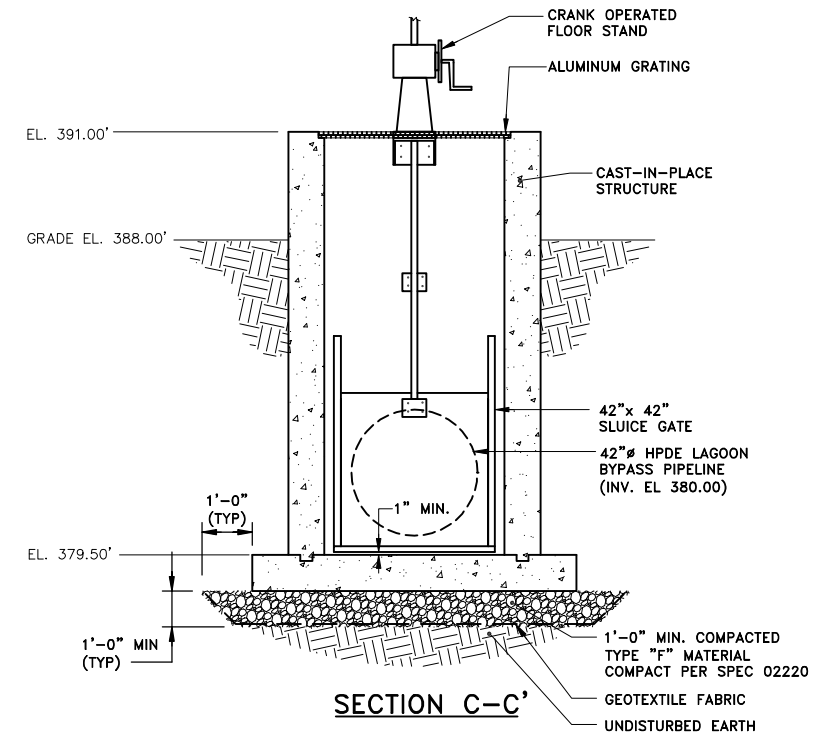
NOTES:
1. SEE REINFORCING DETAILS ON DRAWING 15.
2. CONTRACTOR SHALL COMPLY WITH SECTION MP-02190 MAINTENANCE OF SEWAGE FLOWS AND COORDINATE ALL PLANNED STOPPAGES OF FLOW WITH THE OWNER.



SECTION A-A'



SECTION B-B'



SECTION C-C'

LAGOON BYPASS STRUCTURE NO. 3

SCALE: 3/8"=1'-0"

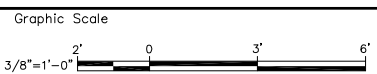
X: 00365X00
L: ON=*, OFF=REF
P: CONT-DJD/CONT-MVB
1/29/99 SYR-54 RJM AK
00365020/OAK/CONT2/00365G15.DWG

LAGOON BYPASS STRUCTURE NO. 1

SCALE: 3/8"=1'-0"

LAGOON BYPASS STRUCTURE NO. 2

SCALE: 3/8"=1'-0"



No.	Date	Revisions	Init

Project Mgr.	JCP
Designed by	SAS
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

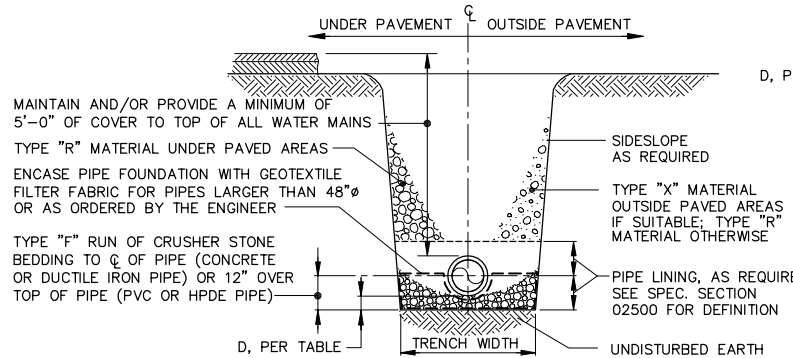


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OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

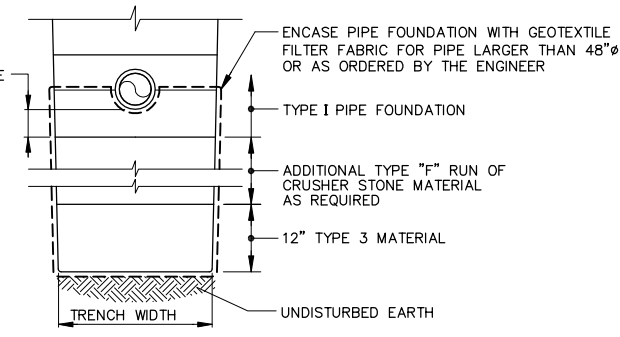
LAGOON BYPASS STRUCTURES

CONTRACT NO. 2

File Number
003.65.113F
Date
FEBRUARY 1999
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



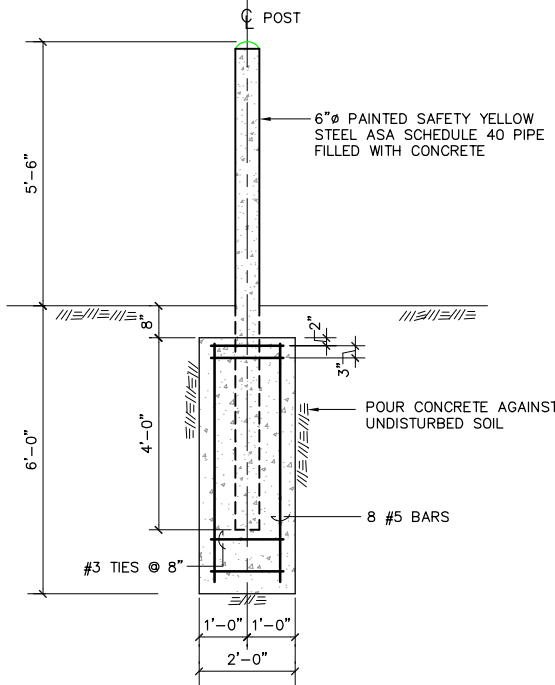
**TYPE I
PIPE FOUNDATION/TRENCH
FOR STABLE SOILS**



**TYPE II
IMPROVED PIPE FOUNDATION
FOR UNSTABLE SOILS
(IF ORDERED BY ENGINEER)**

PIPE I.D.	TRENCH WIDTH EXCAVATION LIMITS		D
	MAXIMUM	MINIMUM	
4", 6"	3'-0"	2'-0"	4"
8", 10"	3'-6"	2'-2"	4"
12"	3'-9"	O.D. + 2'	4"
14", 15", 18"	3'-9"	O.D. + 2'	4"
18"	4'-4"	O.D. + 2'	6"
20", 21"	4'-8"	O.D. + 2'	6"
24"	4'-11"	O.D. + 2'	6"
27"	5'-3"	O.D. + 2'	6"
30"	5'-6"	O.D. + 2'	6"
36"	6'-1"	O.D. + 2'	6"
42"	O.D. + 3'	O.D. + 2'	8"
48"	O.D. + 3'	O.D. + 2'	8"
54"	O.D. + 3'	O.D. + 2'	8"
60"	O.D. + 3'	O.D. + 2'	8"
66"	O.D. + 3'	O.D. + 2'	12"
72"	O.D. + 3'	O.D. + 2'	12"
78"	O.D. + 3'	O.D. + 2'	12"
84"	O.D. + 3'	O.D. + 2'	12"
90"	O.D. + 3'	O.D. + 2'	12"

D = DEPTH BETWEEN BOTTOM OF PIPE AND BOTTOM OF NORMAL PIPE FOUNDATION
 OD = OUTSIDE DIAMETER
 IF MAXIMUM WIDTH IS EXCEEDED, CONCRETE ENCASEMENT SHALL BE INSTALLED TO UNDISTURBED EARTH
 REFER TO SPECIFICATION SECTION 02500 FOR LIMITS OF PAYMENT



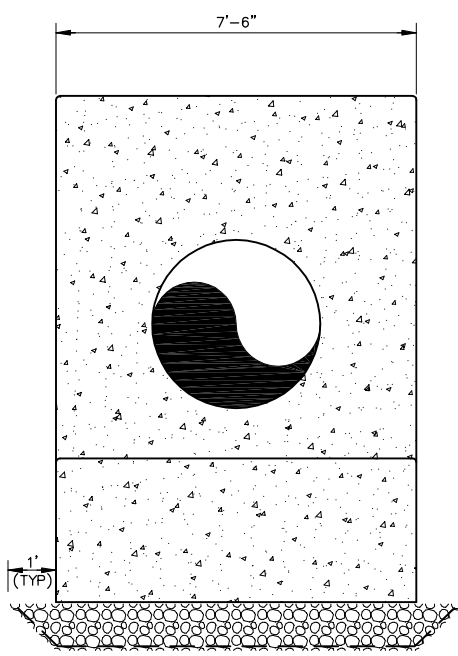
PIPE BOLLARD DETAIL

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

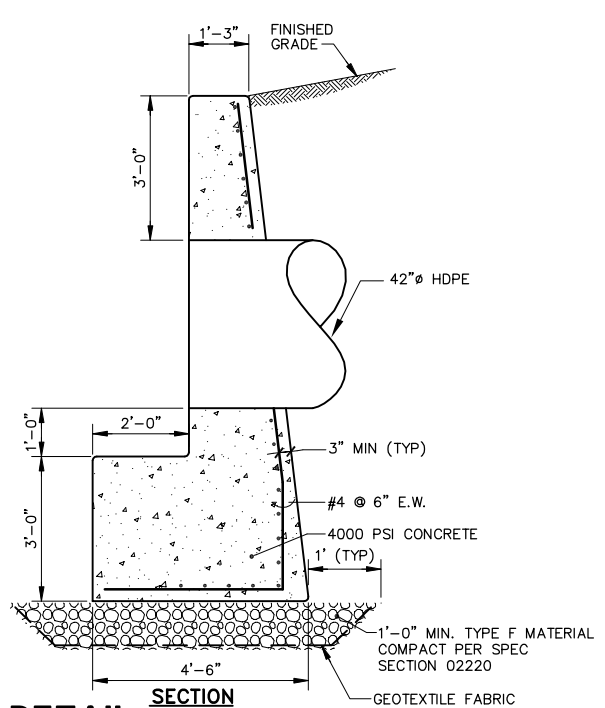
NOTE:
 1. CONTRACTOR SHALL PROVIDE ALL REQUIRED DEWATERING PROVISIONS IN ORDER TO INSTALL LAGOON INFLUENT AND EFFLUENT PIPES AND ENDWALLS AT NO ADDITIONAL COST TO THE OWNER.

PIPE FOUNDATION / TRENCH DETAILS

NOT TO SCALE

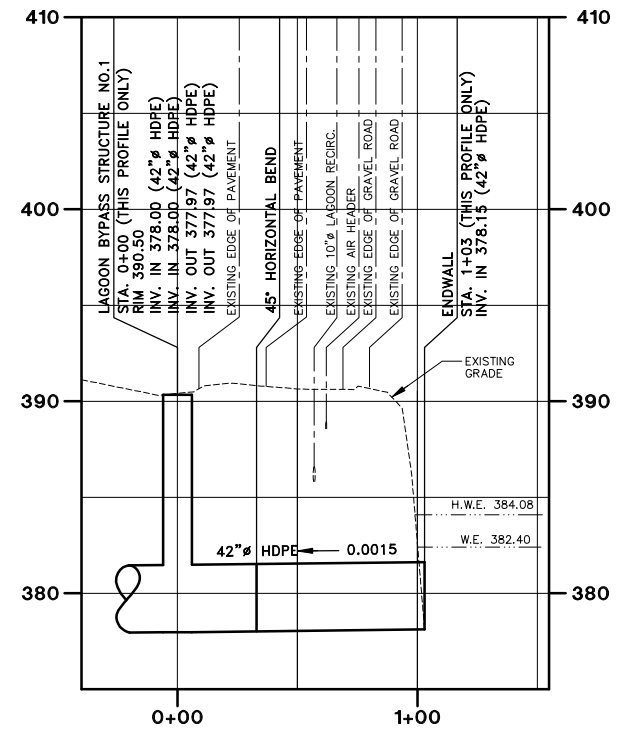


ELEVATION



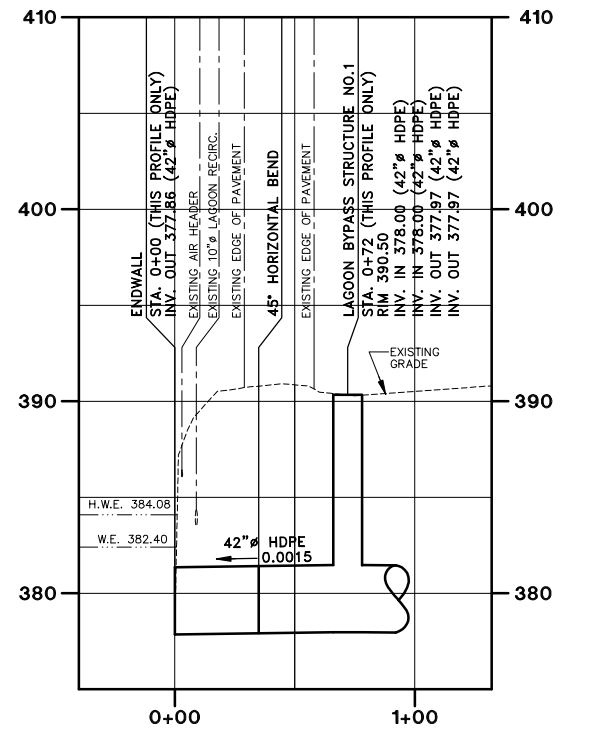
PIPE ENDWALL DETAIL

NOT TO SCALE



**42" HDPE LAGOON 1 EFFLUENT
BYPASS PIPE PROFILE**

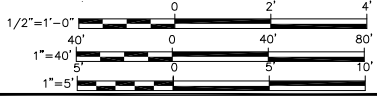
(SEE PLAN ON DWG. 12)
 SCALE: HORIZ. 1"=40'
 VERT. 1"=5'



**42" HDPE LAGOON 2 INFLUENT
BYPASS PIPE PROFILE**

(SEE PLAN ON DWG. 12)
 SCALE: HORIZ. 1"=40'
 VERT. 1"=5'

X: 00365X00.DWG
 L: ON=*, OFF=REF
 P: STD-PCP/DL
 1/29/99 SYR-54 AK RJM AK
 00365020/OAK/CONT2/00365G16.DWG



No.	Date	Revisions	Init

Project Mgr.	JCP
Designed by	SAS
Drawn by	AK
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Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

BBL
 BLASLAND, BOUCK & LEE, INC.
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
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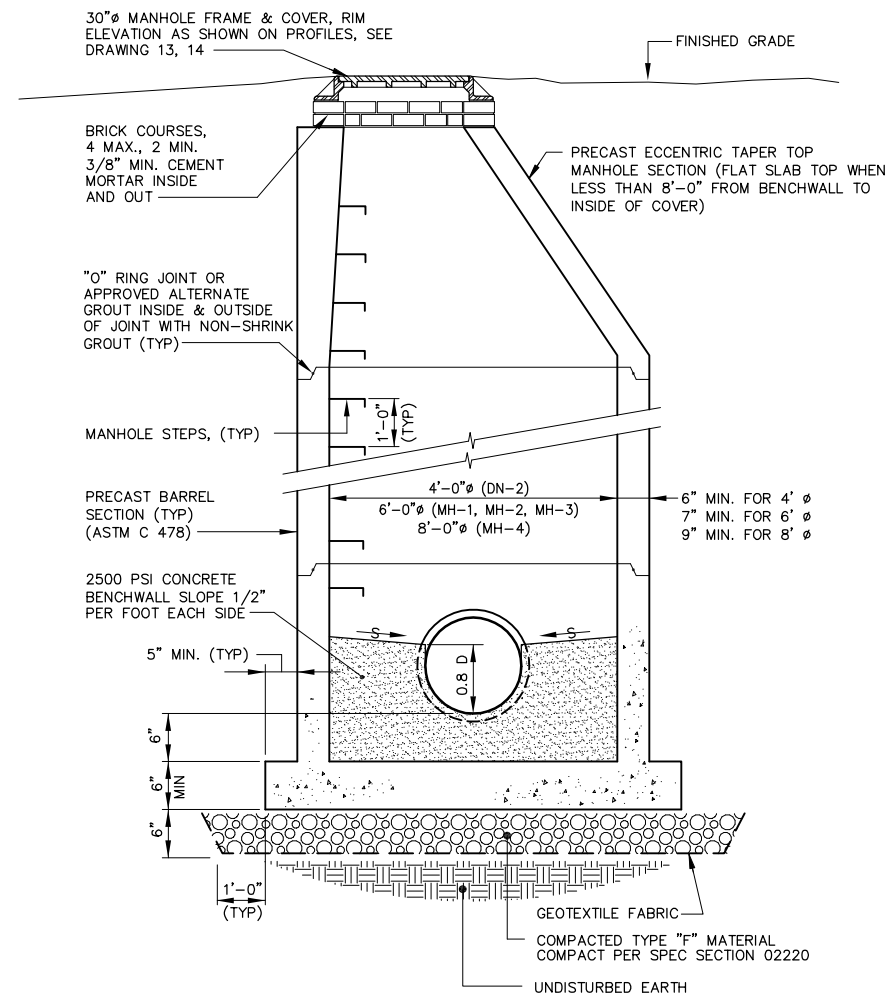
MISCELLANEOUS PROFILES & DETAILS

CONTRACT NO. 2

File Number
 003.65.114F

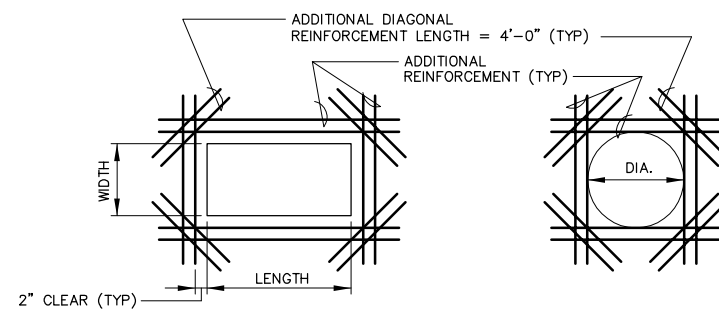
Date
 FEBRUARY 1999

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



TYPICAL PRECAST ROUND MANHOLE SECTION

(DN-2, MH-1, MH-2, MH-3, MH-4)
NOT TO SCALE

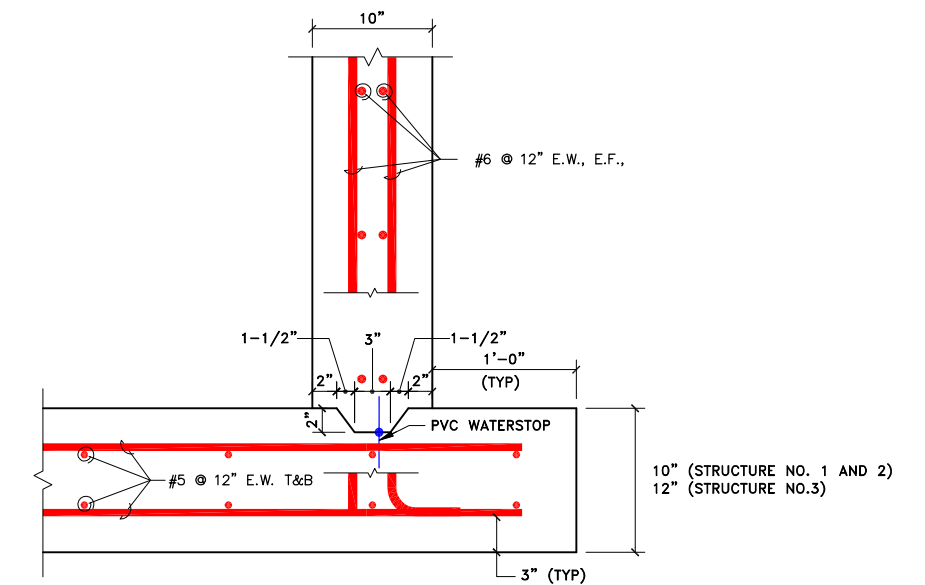


NOTES:

1. PROVIDE ADDITIONAL REINFORCEMENT WHEN OPENING SIZE OR DIAMETER (LENGTH, WIDTH, & DEPTH) IS EQUAL TO OR GREATER THAN SPECIFIED BAR SPACING.
2. PROVIDE ONE HALF THE AREA OF CUT BARS EACH SIDE, MINIMUM (2)-#4 @ 6" E.F.
3. EXTEND REINFORCEMENT A MINIMUM OF 48 BAR DIAMETERS BEYOND THE FACE OF THE OPENING. WHEN EMBEDMENT CAN NOT BE OBTAINED EXTEND BARS AS FAR AS POSSIBLE AND PROVIDE STANDARD HOOK.
4. PROVIDE ADDITIONAL DIAGONAL REINFORCEMENT AT ALL OPENINGS:
 - A) OPENINGS UP TO 2'-0", (2)-#5 @ 6" E.F.
 - B) OPENINGS UP TO 4'-0", (2)-#6 @ 6" E.F.
 - C) OPENINGS GREATER THAN 4'-0", PROVIDE ONE HALF AREA OF CUT BARS EACH CORNER MINIMUM (2)-#6 @ 6" E.F.

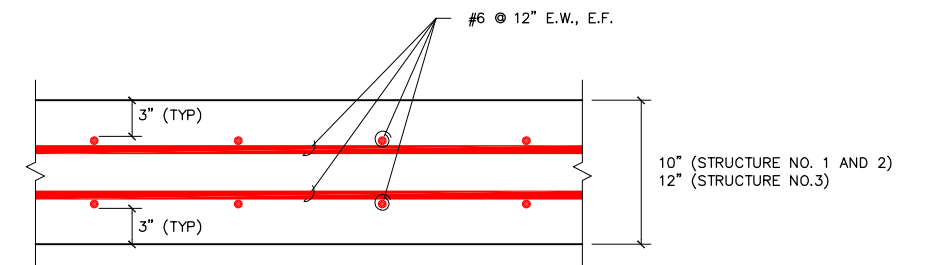
ADDITIONAL REINFORCEMENT DETAIL AT OPENINGS

NOT TO SCALE



TYPICAL BASE SLAB DETAIL

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



NOTE:

1. ALL HORIZONTAL BARS SHALL BE EXTENDED INTO EXISTING PARSHALL FLUME STRUCTURE A MINIMUM OF 15" AND SET IN PLACE WITH EPOXY GROUT (LAGOON BYPASS STRUCTURE NO. 3 ONLY)

TYPICAL WALL DETAIL

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

TYPICAL LAGOON BYPASS STRUCTURE REINFORCING DETAILS

X: 00365X00.DWG
L: ON=*, OFF=REF
P: CONT-DJD/CONT-MVB
1/29/99 SYR-54-GMS AK
00365020/OAK/CONT2/00365G20.DWG

Graphic Scale	No.	Date	Revisions	Init
1 1/2"=1'-0"				

Project Mgr. --- JCP
Designed by --- DKM, SAS
Drawn by --- AK
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

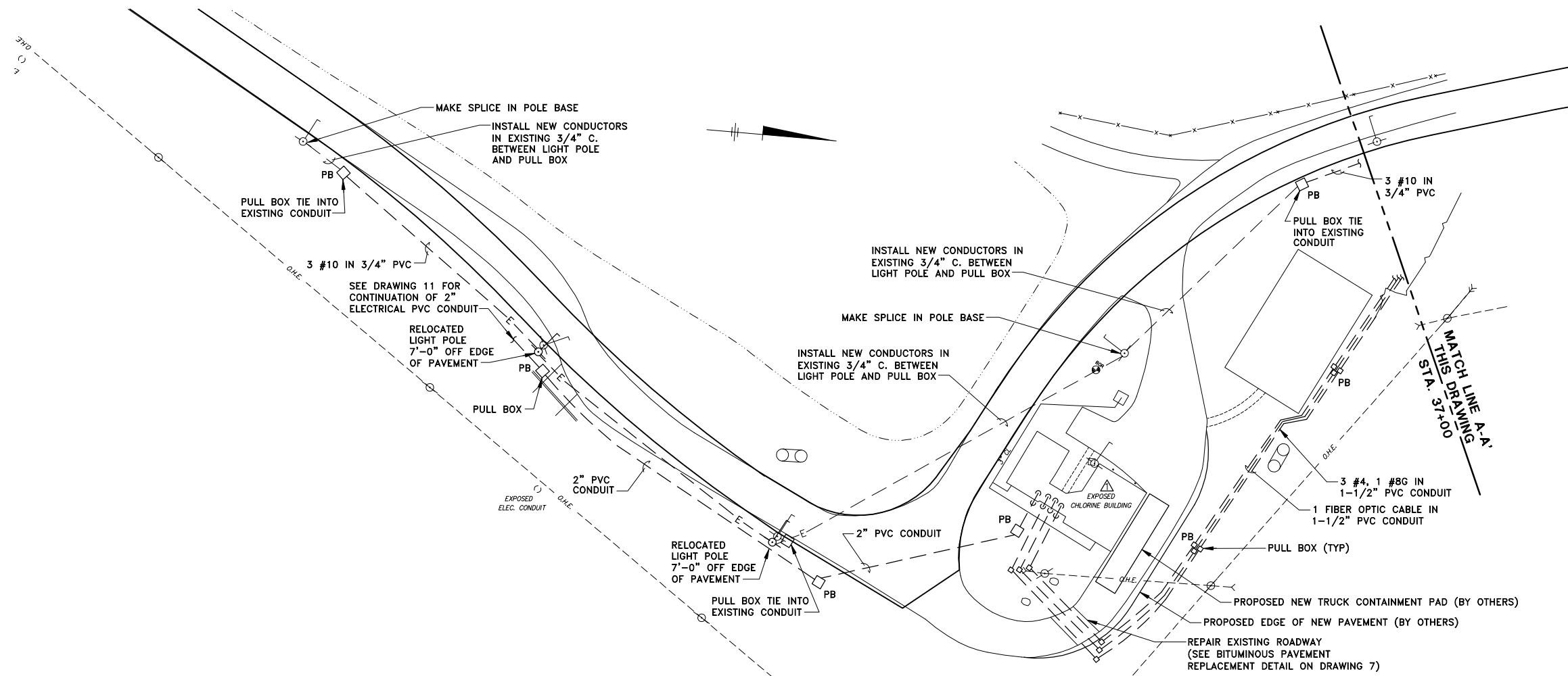
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OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

**MANHOLE / LAGOON BYPASS
STRUCTURE DETAILS**

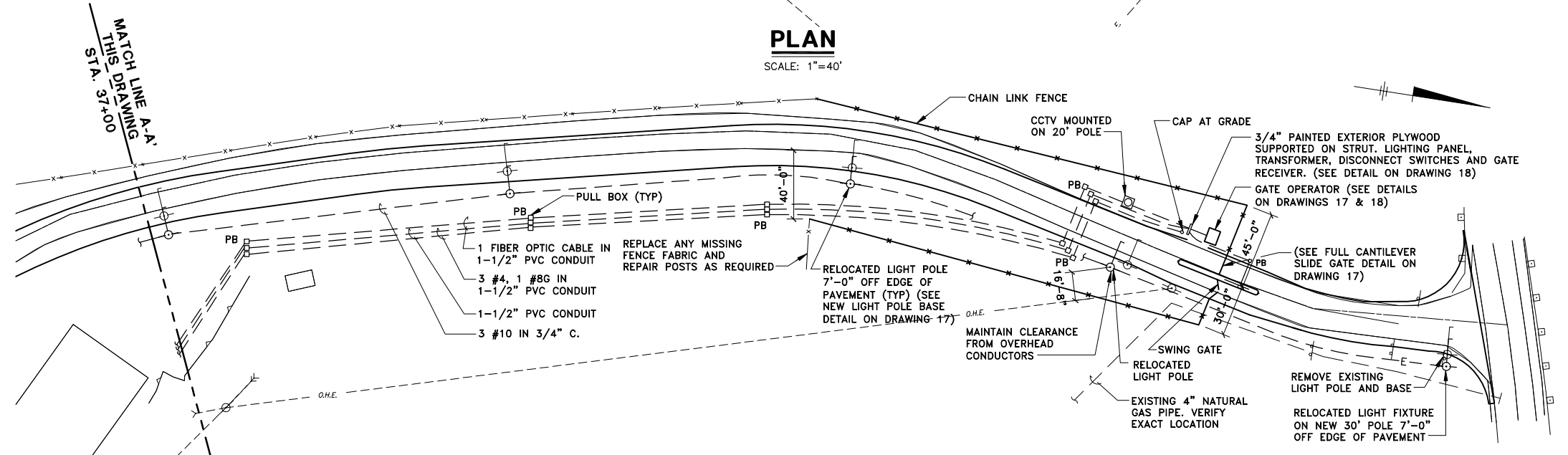
CONTRACT NO. 2

File Number 003.65.115F
Date FEBRUARY 1999
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120



PLAN

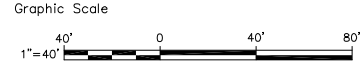
SCALE: 1"=40'



PLAN

SCALE: 1"=40'

X: 00365X00.DWG
 L: ON=*, OFF=REF
 P: CONT-D,JD/CONT-MVB
 3/8/99 SYR-54-AK DCC AK
 00365020/OAK/CONT2/00365G17.DWG



No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	TEL
Drawn by	DCC
Checked by	TEL
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

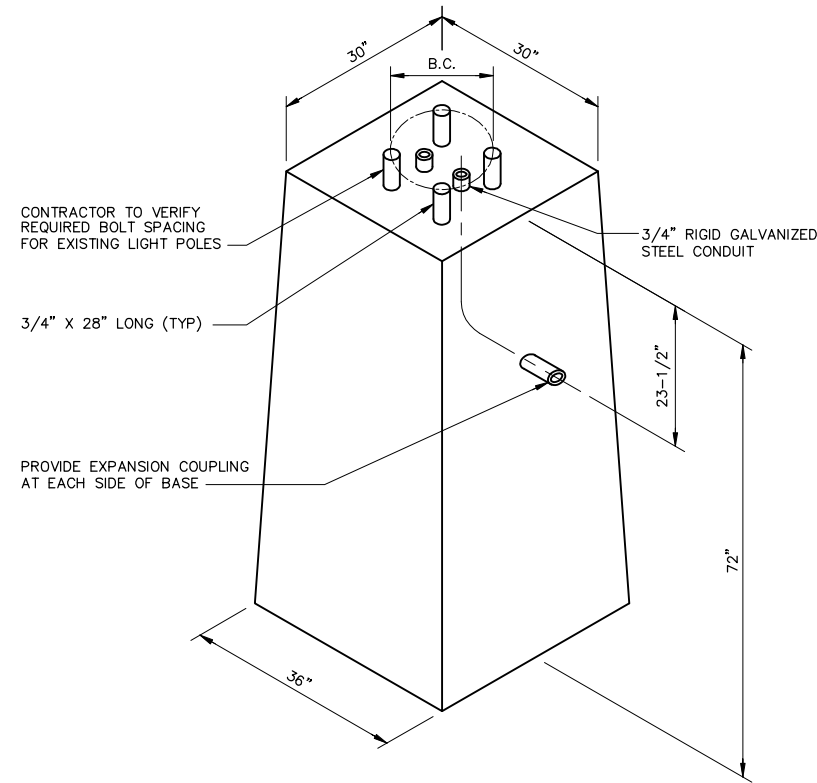
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 OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

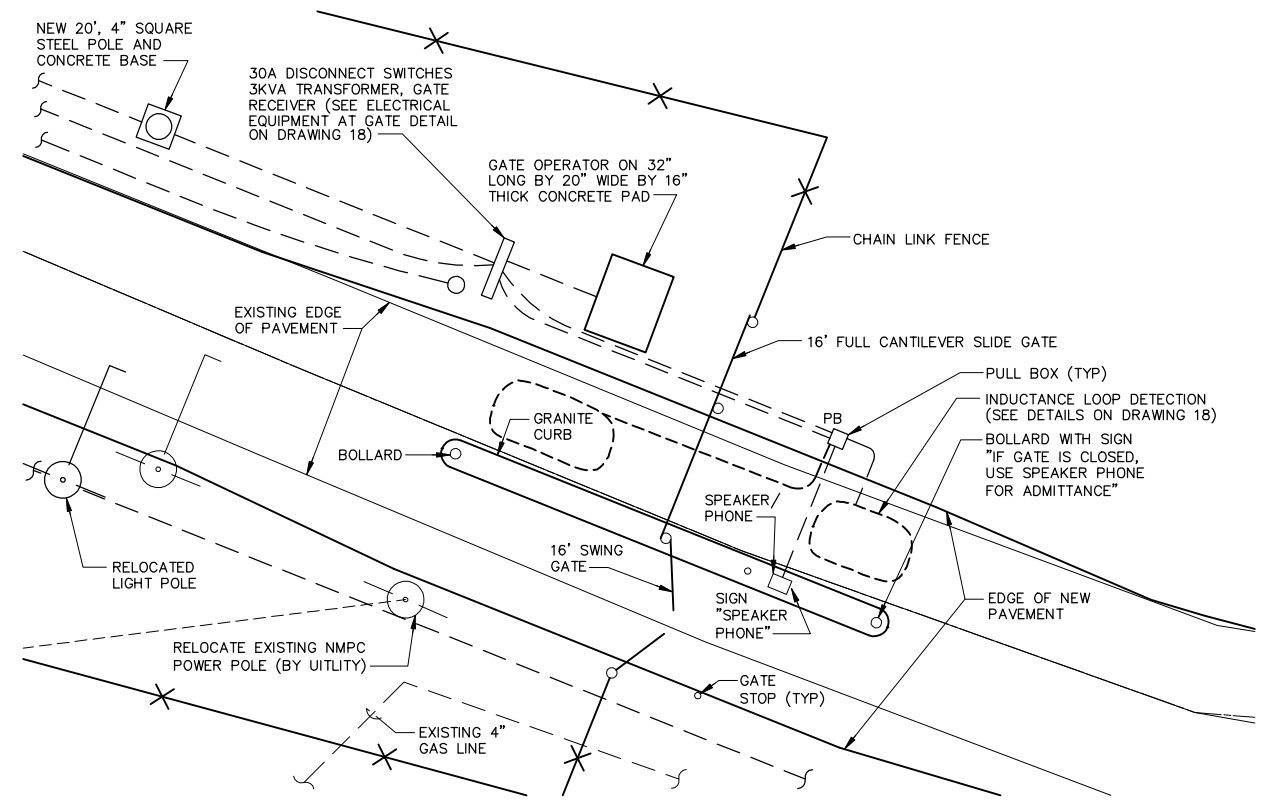
ELECTRICAL SITE PLAN
STATION 28+50 TO 45+11

CONTRACT NO. 2

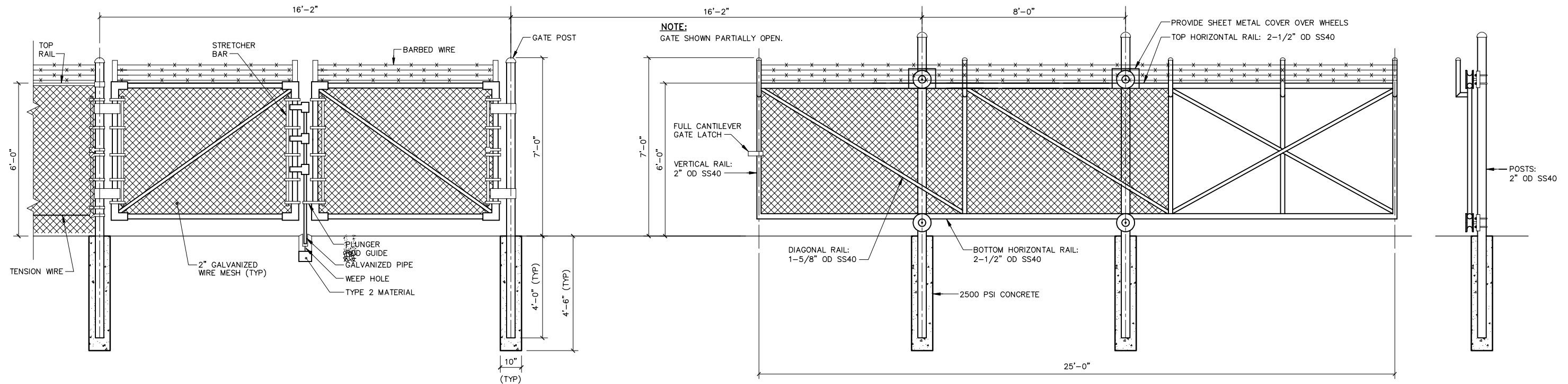
File Number	003.65.116F
Date	FEBRUARY 1999
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LIGHT POLE BASE DETAIL
NOT TO SCALE

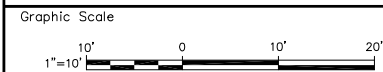


GATE OPERATOR PLAN Δ
SCALE: 1"=10'



FULL CANTILEVER SLIDE GATE DETAIL Δ
NTS

X: 00365X00.DWG
L: ON=*, OFF=*REF
P: CONT-DJD/COMT-MVB
3/8/99 SYR-54 GMS DCC AK
00365020/OAK/CONT2/00365G18.DWG



No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr. JCP
Designed by TEL
Drawn by DCC
Checked by TEL
Prof. Eng. DONALD GEISSER
PE License N.Y. 57879

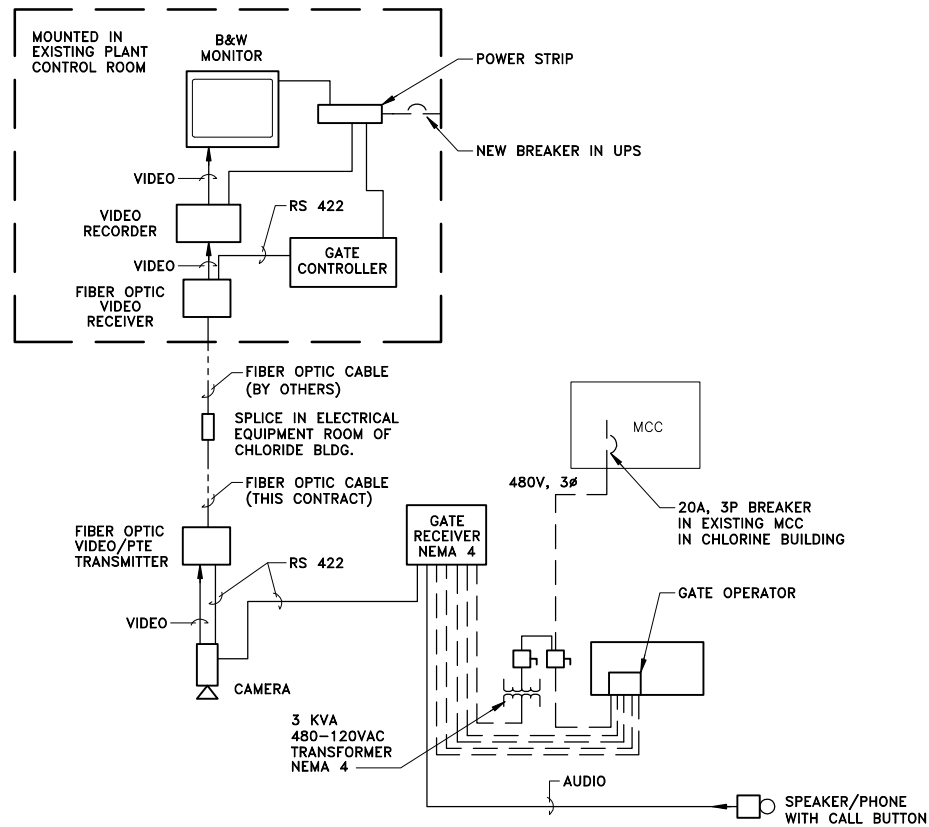
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OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

GATE OPERATOR PLAN AND MISCELLANEOUS DETAILS

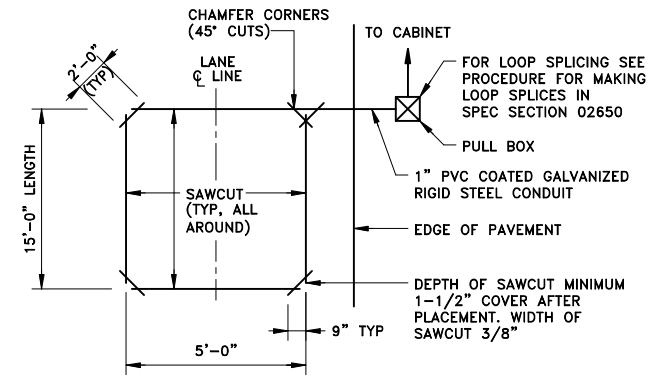
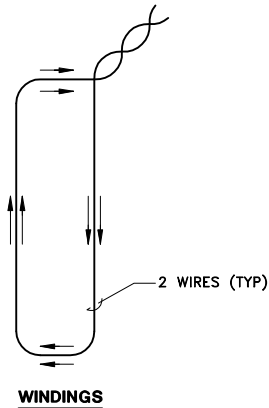
CONTRACT NO. 2

File Number 003.65.117F
Date FEBRUARY 1999
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
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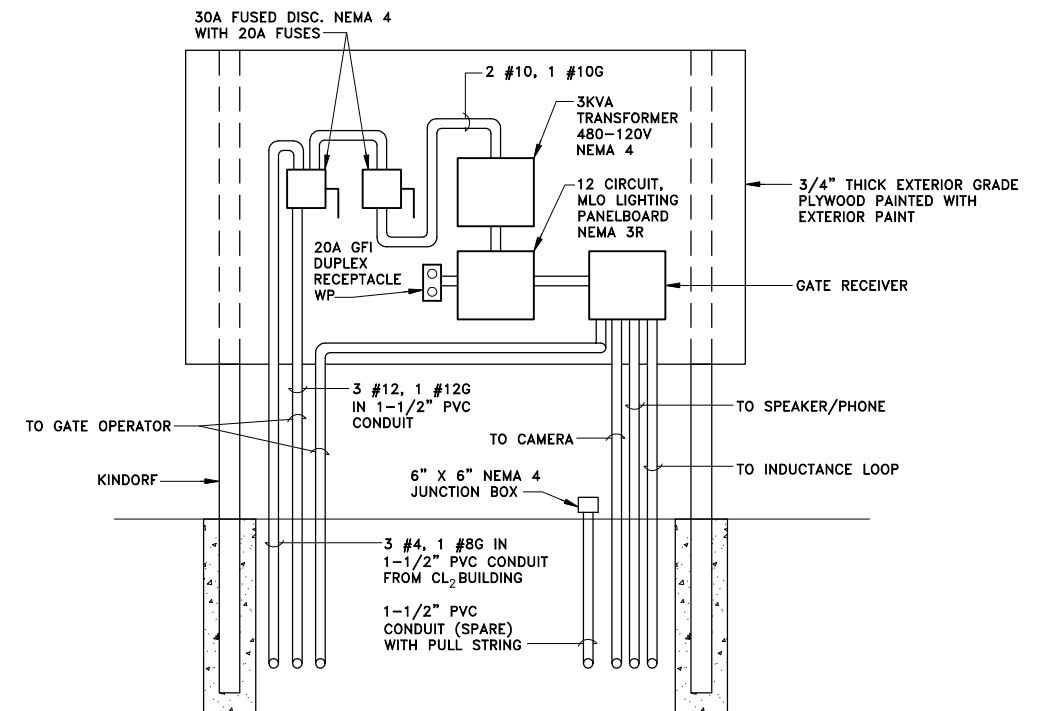
SURVEILLANCE SYSTEM SCHEMATIC

NOT TO SCALE



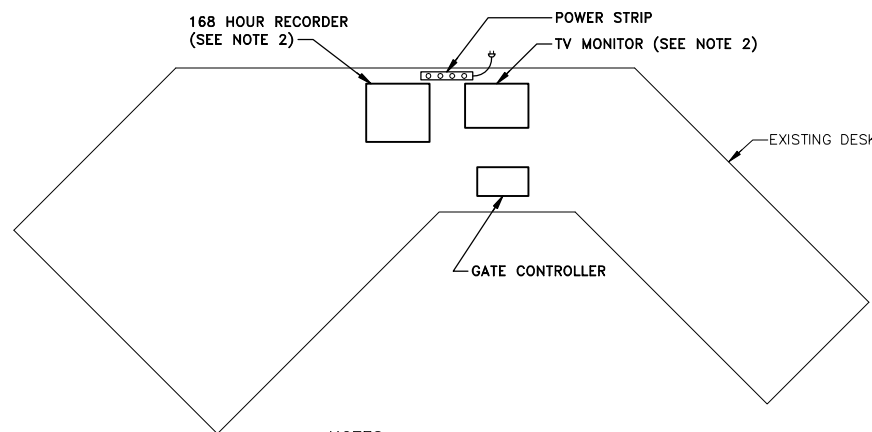
INDUCTANCE LOOP INSTALLATION DETAIL

NOT TO SCALE



ELECTRICAL EQUIPMENT AT GATE DETAIL

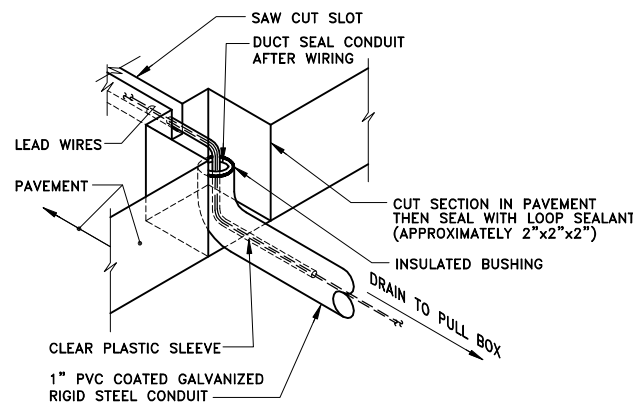
NOT TO SCALE



- NOTES:**
1. WIRING TO BE UNDER RAISED FLOOR
 2. TV MONITOR AND 168 HOUR RECORDER TO BE MOUNTED ON RACK SUPPORTED FROM CEILING. Δ

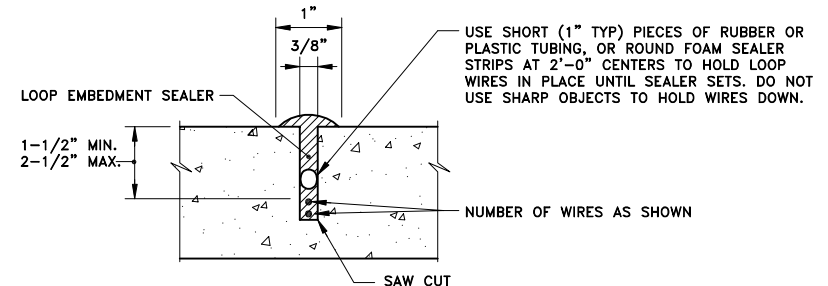
EXISTING PLANT CONTROL ROOM PLAN

NOT TO SCALE



LOOP DETECTOR CONDUIT TERMINATION DETAIL

NOT TO SCALE



SAW CUT CROSS SECTION IN ASPHALT DETAIL

NOT TO SCALE

X: 00365X00.DWG
L: ON=*, OFF=REF
P: CONT-D,JD/CONT-MVB
3/8/99 SYR-54-AK DCC AK
00365020/OAK/CONT2/00365G19.DWG

Graphic Scale

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init
Δ	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	TEL
Drawn by	DCC
Checked by	TEL
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

BBL
BLASLAND, BOUCK & LEE, INC.
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT SITE IMPROVEMENTS

SCHEMATIC, PLAN, AND DETAILS

CONTRACT NO. 2

File Number
003.65.118F

Date
FEBRUARY 1999

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
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