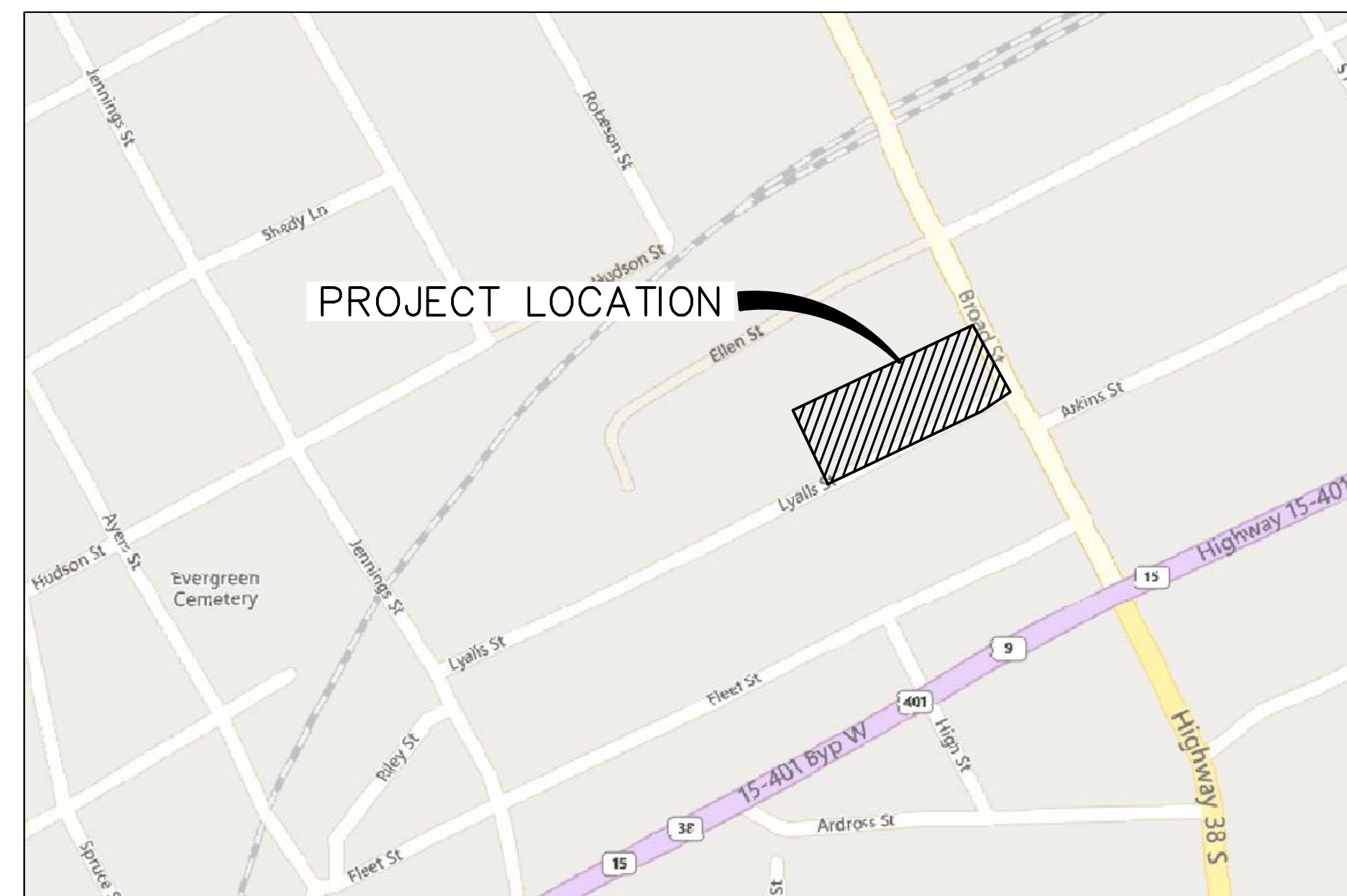


LIME SLURRY FEED SYSTEM FOR THE LYALL STREET WATER TREATMENT PLANT

FOR THE CITY OF BENNETTSVILLE

HUD/CDBG PROJECT NO.: 4-CI-24-001

PROJECT NO.: 60753190

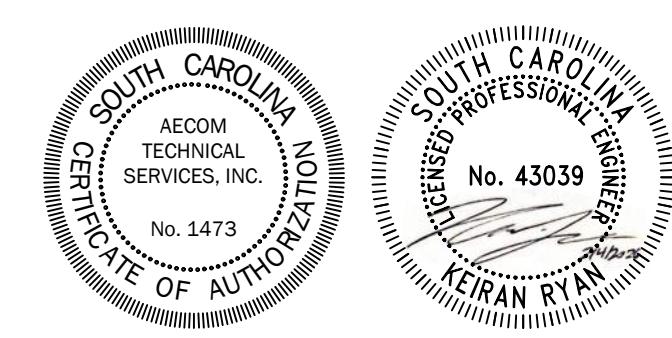


LOCATION MAP

SCALE: 1" = 300'



FEBRUARY 2026



AECOM



**Lime Slurry Feed System for the
Lyall Street Water Treatment Plant
For the City of Bennettsville**

Project No.: 60753190 HUD/CDBG Project No.: 4-CI-24-001
501 E. Main Street, Bennettsville, SC 29512

ABBREVIATION	WORD	ABBREVIATION	WORD	ABBREVIATION	WORD	ABBREVIATION	WORD	ABBREVIATION	WORD	ABBREVIATION	WORD
A	ABOVE FINISH FLOOR	CJ	CONSTRUCTION JOINT	H	HANDLE	OR	OUTSIDE RADIUS	T	TAN.	TANGENT	
ABS	ABSOLUTE	CONT	CONTACT	HGR	HANGER	OA	OVERALL	TPR	TAPE		
ACT.	ACTUAL	CONT	CONTINUOUS	HDW	hardware	OH	OVERHANG	TEMP	TEMPERATURE		
ADPT.	ADAPTER	CD	CORD	HD	HEAD	OHP	OVERHEAD POWER	TEMP	TEMPLATE		
ADD.	ADDENDUM	CORP	CORPORATION	HT	HEAT	OFV	OVERFLOW	TS	TENSILE STRENGTH		
ADJ.	ADJUST	CORR	CORRUGATE	HT TR	HEAT TREAT	P	P	TENS.	TENSION		
ADV.	ADVANCE	CCW	COUNTERCLOCKWISE	HEX	HEXAGON	PAR.	PARALLEL	THK	THICK		
AFT.	AFTER	CSK	COUNTERSINK	HDPE	HIGH DENSITY POLYETHYLENE	PERM	PERMANENT	THD	THOUSAND POUND		
AGGR.	AGGREGATE	CPLG	COUPLING	H.P.	HIGH PRESSURE	PERP	PERPENDICULAR	TOL	THREAD		
AIR COND	AIR CONDITION	CRK	CRANK	HP	HIGH SPEED	PC	PIECE	TOLERANCE	TOLERANCE		
ALY	ALLOY	XSECT	CROSS SECTION	HS	HOLLOW STEEL SHAPE	PITCH	PITCH	T&G	TONGUE AND GROOVE		
ALT	ALTERATION	CU	CUBIC	HOR	HORIZONTAL	PLATE	PLATE	TOP	TOP AND BOTTOM		
ALT.	ALTERNATE	CC	CENTIMETER	HP	HORSEPOWER	POL	POLISH	T/	TOP OF		
AC	ALTERNATING CURRENT	CFM	CUBIC FEET PER MINUTE	HR	HOUR	PVC	POLYVINYL CHLORIDE	TOT	TOTAL		
AL	ALUMINUM	CFS	CUBIC FEET PER SECOND	HWL	HIGH WATER LEVEL	POS	POSITION	TRANS	TRANSFER		
AWG	AMERICAN WIRE GAGE	CU FT	CUBIC FOOT	HYD	HYDRAULIC	POS	POSITIVE	TYP	Typical		
AM	AMMETER	CU IN.	CUBIC INCH	I	LB (OR #)	POUND	POUND	U	ULTIMATE		
AMT	AMOUNT	CU M	CUBIC METER	IN. (OR ")	POUNDS PER CUBIC FOOT	POUNDS PER LINEAR FOOT	POUNDS PER SQUARE FOOT	ULT	UNIT		
AMP	AMPERE	CU YD	CUBIC YARD	IPS	POUNDS PER CUBIC INCH	POUNDS PER SQUARE INCH	POUNDS PER SQUARE INCH	UNIV	UNIVERSAL		
AB	ANCHOR BOLT	CUR	CURRENT	INCL	POWER	PSI	POWER	UNO	UNLESS NOTED OTHERWISE		
&	AND	CYL	CYLINDER	IND	PREFABRICATED	PSF	PSF				
ANT.	ANTENNA	D	DECIMAL	INFO	PREFERRED	PSI	PSI				
APPX	APPENDIX	APPROVED	DEC	ID	PREFERRED	PWR	PWR				
APPD	APPROVED	APPROXIMATE	DEC (OR ")	IF	PREFAB	PWR	PWR				
APPROX	APPROXIMATE	ARC WELD	DEGREE	INSIDE	PREFAB	VAC	VAC				
ARC/W	ARC WELD	AREA	DEPARTMENT	DIAMETER	PREFERRED	V	V				
A	ASPHALT	DEPT	DESIGN	FACE	PREP	VARIABLE	VARIABLE				
ASSPH	ASSEMBLY	DSGN	DETAIL	INSTRUMENT	PRESS.	VENT	VENT				
ASSY	AT	DET	DEVELOP	INSULATE	PCO	VERT	VERT				
@	AUTHORIZED	DIAG	DIAGONAL	INTERNAL	PS	VINYL COMPOSITE TILE	VINYL COMPOSITE TILE				
AUTH	AUXILIARY	DIA (OR #)	DIA	INTERSECT	PUMP STATION	VOL	VOL				
AUX	AUXILIARY	DIM.	DIM.	INVERT	PRESSURE TREATED	VOLT	VOLT				
AVE	AVENUE	DC	DIMENSION	IRON	PROCESS	VOLUME	VOLUME				
AVG	AVERAGE	DISCH	DISCHARGE	IRREG	PRODUCTION						
AZ	AZIMUTH	DIST	DISTANCE		PROFILE						
B	BACK PRESSURE	DVTL	DITTO		PROJECT						
B TO B	BACK TO BACK	DWL	DOVETAIL								
BAL	BALANCE	DN	DOWEL								
BB	BALL BEARING	DFTG	DOWN								
BAR	BAROMETER	DWG	DRAFTING								
BL	BASE LINE	DR	DRAWING								
BP	BASE PLATE	DI	DRIVE								
BAT.	BATTERY	DIP	DUCTILE IRON								
BRG	BEARING	E	DUCTILE IRON PIPE								
BET.	BENCH MARK	EA	EACH								
BEV	BETWEEN	EF	EACH FACE								
BD	BEVEL	EW	EACH SIDE								
BLR	BOARD	E	EACH WAY								
BC	BOLT CIRCLE	ECC	EAST								
BS	BOTH SIDES	EFF	EFFECTIVE								
BOT	BOTTOM	ELL	EFFECTIVE								
B/	BOTTOM OF	ELEC	ELBOW								
BC	BOTTOM CHORD	ENGR	ELECTRIC								
BDY	BOUNDARY	EQ	ELEVATION								
BRKT	BRACKET	EQUIP. (OR EQ)	ENGINEER								
BHP	BRAKE HORSEPOWER	EQUIV	EQUAL								
BRS	BRASS	EQUIV	EQUIPMENT								
BRK	BREAK	EST	EQUIVALENT								
BKR	BREAKER	EXP	ESTIMATE								
BRDG	BRIDGE	FJ	EXPANSION								
BTU	BRITISH THERMAL UNITS	EXT	JOINT								
BRZ	BRONZE	X HYV	EXTERIOR								
BLDG	BUILDING	X STR	EXTRA HEAVY								
BHD	BULKHEAD		EXTRA STRONG								
BUSH.	BUSHING										
BUT.	BUTTON										
BZ	BUZZER										
BYP	BY-PASS										
BV	BALL VALVE										
BFV	BUTTERFLY VALVE										
C	CABINET	FAB	FABRICATE	M	MACH	S	SAFETY				
CALC	CALCULATE	F to F	FACE TO FACE	MAH	MANHOLE	SAF	SANDBLAST				
CAL	CALIBRATE	FEET	FAHRENHEIT	MAN.	MANUAL	SD	SCHEDULE				
CAP	CAPACITOR	FEET	FAR SIDE	MFR	MANUFACTURE	BL	SCREEN				
CIP	CAST-IN-PLACE	FEET	FEET	MO	MASONRY	SCRN	SCREW				
CSTG	CAST IRON	FEET	FEET	MAX	OPENING	SCR	SEA LEVEL				
CAT.	CASTING	FF	FEET	MECH	MATERIAL	SL	SECOND				
CEM	CEMENT	FIN.	FINISH	MJ	MAXIMUM	SEC (OR ")	SECTION				
CTR	CENTER	FLG	FLOOR	MECH	MECHANICAL	SECT	SEPARATE				
CL	CENTERLINE	FWD	FIRE HYDRANT	MECH	JOINT	SEP	SHAFT				
CG	CENTER OF GRAVITY	FOUNDATION	FLANGE	MECH	MECHANISM	SFT	SIDE				
C to C	CENTER TO CENTER	FDRY	FLUID	MIN	MEDIAN	MD	SIMILAR				
C	CENTIGRADE	FREQ	FORWARD	MIN (OR ")	METAL	MD	SLEEVE				
CM	CENTIMETER	FR	FOUNDATION	MISC	METER	SL	SLIDE				
CH	CHAIN		FOUNDRY	MIX.	MILES	SLV	SLOTTED				
CHAM	CHAMFER	G	FREQUENCY	MOD	MILE PER HOUR	SL	SOCKET				
CO	CHANGE ORDER	GA	FRONT	MCC	MILLIMETER	SOLN	SOLDER				
CHAN	CHANNEL	GAL	GAGE	MULTI	MILLION GALLON	SOLUTION	SOLUTION				
CHK	CHECK	GALV	GALLON		MINIMUM	SOUTH	SOUTH				
CV	CHECK VALVE	GS	GALVANIZE		MINUTE	SPACE	SPACE				
CHEM	CHEMICAL	GSKT	GENERAL		MISCELLANEOUS	SP	SPECIAL				
CHD	CHORD	GEN	GRADE		MIXTURE	SPL	SPECIAL				
CIR	CIRCLE	GR	GRADE LINE		MODEL	SP GR	SQUARE				
CKT	CIRCUIT	GL	GRAM		MOTOR CONTROL CENTER	STN	STAINLESS				
CIR	CIRCULAR	G	GRAVITY		MULTIPLE	SST	STEEL				
CIRC	CIRCUMFERENCE	GRD	GRIND			STD	STAINLESS STEEL				
CO	CLEANOUT	GRV	GROOVE			STA	STANDARD				
CW	CLOCKWISE	GRD	GROUND			STL	STATION				
CTD	COATED	GRD	GYPSUM			STRK	STEEL				
COL	COLUMN	GYP	GYPSUM			STR	STOCK				
COMB.	COMBINATION	GWB	GYPSUM WALL BOARD			SCADA	STRAIGHT				
COMB.	COMBUSTION						STRUCTURAL				
CO	COMPANY						SUBSTITUTE				
CONC	CONCENTRIC						SUPPLY				
CONC	CONCRETE						SURFACE				
CMU	CONCRETE MASONRY UNIT						SYMBOL				
COND	CONDITION						SYMMETRICAL				
CONN	CONNECT						SYSTEM</td				

SYMBOLS

	EXISTING STRUCTURE/BUILDING
	TO BE REMOVED
	TO MILL & OVERLAY ASPHALT
	NEW STRUCTURE/BUILDING
	EXISTING SIDEWALK
	NEW SIDEWALK
	EXISTING ASPHALTIC CONCRETE PAVEMENT
	NEW ASPHALTIC CONCRETE PAVEMENT
	BENCHMARK/ELEVATION MARKER
	NEW SPOT ELEVATION
	STAKING POINT
	EXISTING CONTOUR
	NEW CONTOUR
	EXISTING PIPING
	YARD PIPING TO BE REMOVED
	YARD PIPING TO BE ABANDONED
	NEW PIPING
	EXISTING FENCE
	NEW FENCE
	SILT FENCE
	OVERHEAD POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE (UNDERGROUND)
	FIBER OPTIC CABLE
	TREE LINE
	EXISTING HANDRAIL
	NEW HANDRAIL
	CABLE TV
	SANITARY SEWER
	PROPERTY LINE
	RIGHT-OF-WAY/EASEMENT
	EXISTING LIGHT POLE
	EXISTING POWER POLE
	EXISTING YARD HYDRANT
	NEW YARD HYDRANT
	EXISTING FIRE HYDRANT
	NEW FIRE HYDRANT
	EXISTING MANHOLE
	NEW MANHOLE
	EXISTING STOP GATE

SYMBOLS (CONT.)

	EXISTING DROP INLET
	NEW DROP INLET
	EXISTING JUNCTION BOX
	NEW JUNCTION BOX
	EXISTING CATCH BASIN
	NEW CATCH BASIN
	EXISTING ELECTRIC MANHOLE
	EXISTING ELECTRIC BOX
	CLEAN OUT
	EXISTING VALVE
	NEW VALVE
	EXISTING TELEPHONE PED
	BALL VALVE
	GATE VALVE
	REDUCER
	UNION
	STRAINER
	CHECK VALVE
	PRESSURE GAUGE
	FLOOR DRAIN
	LEVEL SENSOR
	TRANSMITTER

DETAIL REFERENCES

DETAIL
SCALE: NONE
OPH
SIM

1 C3
1 C1

DETAIL NUMBER
SHEET WHERE DETAIL APPEARS
DETAIL NUMBER
SHEET WHERE DETAIL IS NOTED
OPH
SIM
OPH
SIM

USED TO INDICATE THAT DETAIL SHOWN IS OPPOSITE HAND.
USED TO INDICATE THAT DETAIL SHOWN IS SIMILAR.

SECTION REFERENCES

SECTION
SCALE: 1/4" = 1'-0"
OPH
SIM

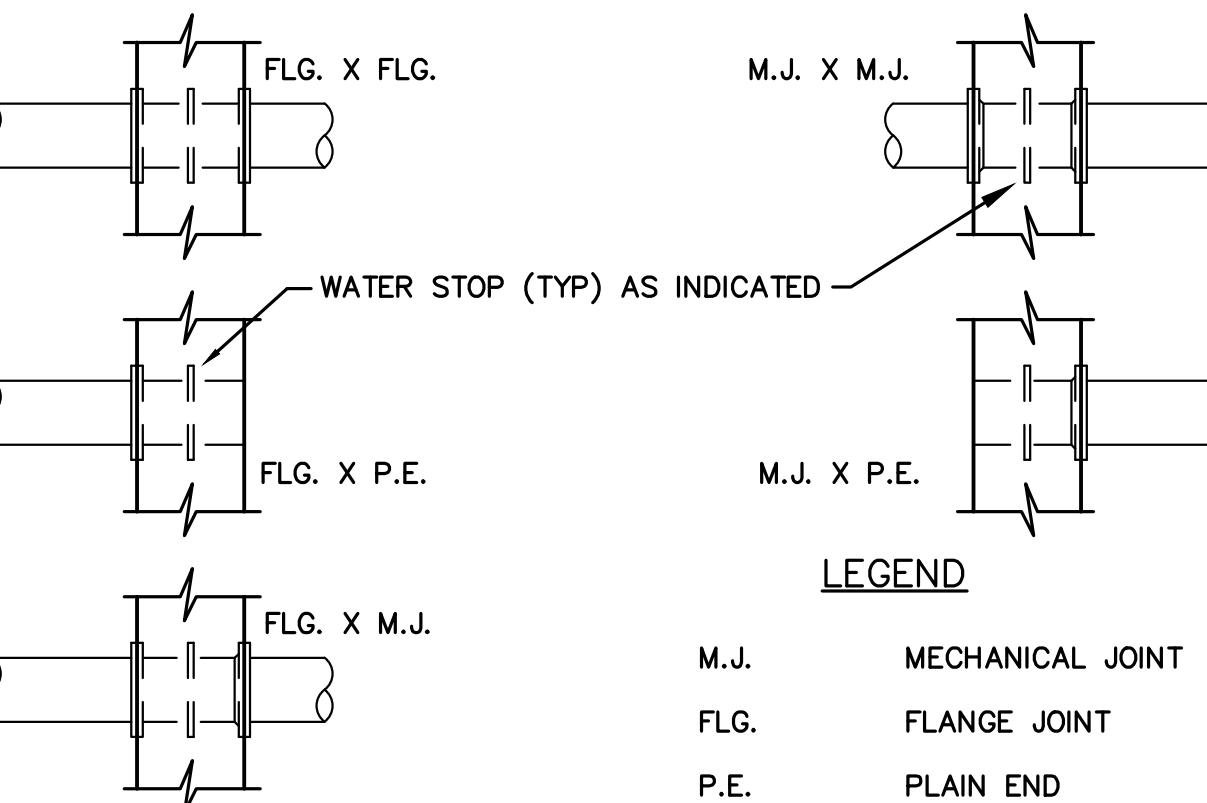
A D2
A D1

SECTION LETTER
SHEET WHERE SECTION APPEARS
SECTION LETTER
SHEET WHERE SECTION IS CUT
OPH
SIM

ELEVATION REFERENCES

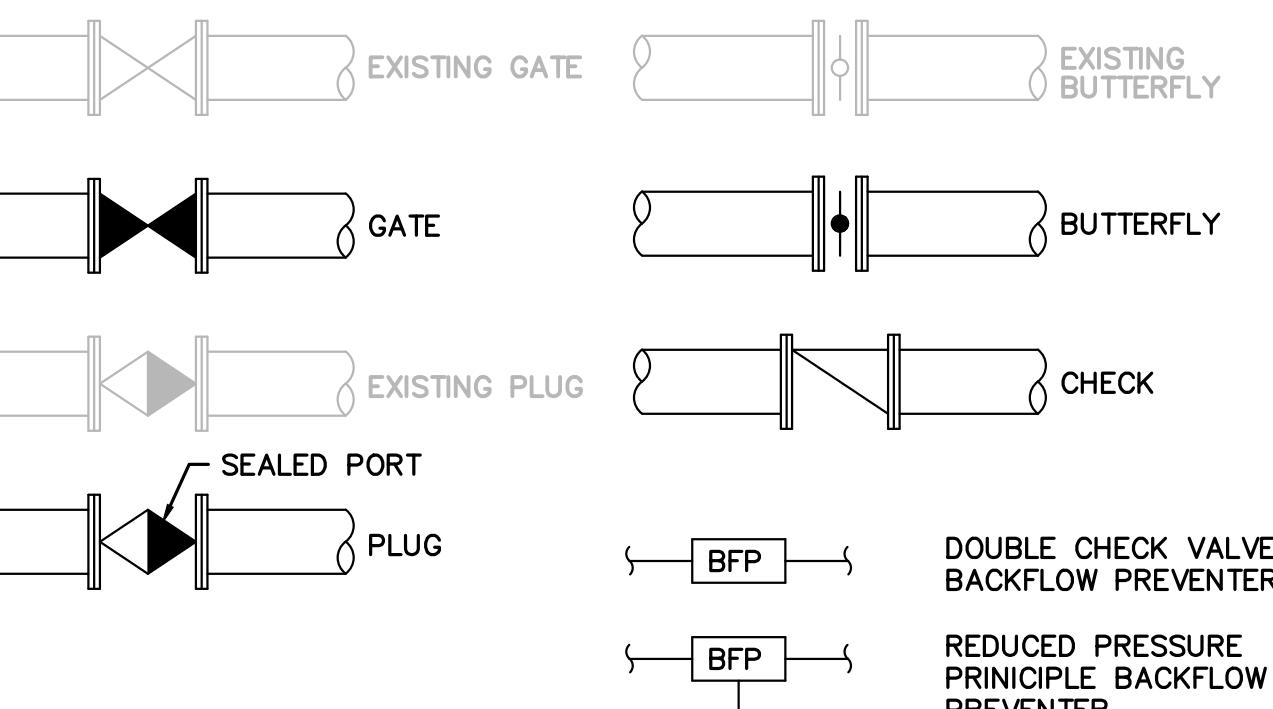
C
D1
B

ELEVATION LETTER
SHEET WHERE ELEVATION APPEARS

WALL PIPESLEGEND

M.J.
FLG.
P.E.

MECHANICAL JOINT
FLANGE JOINT
PLAIN END

VALVES

BFP
BFP

DOUBLE CHECK VALVE BACKFLOW PREVENTER
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER

PIPING

N (NEW)
E (EXISTING)
A (ABANDONED)
F (FUTURE)
T (TEMPORARY)

N 4 DRN

PIPE IDENTIFIER
LINE SIZE

IDENTIFIER	DESCRIPTION	IDENTIFIER	DESCRIPTION
BYP	BYPASS	RAW	RAW WATER
CAS	CAUSTIC SOLUTION	SD	STORM DRAIN
CLG	CHLORINE GAS	SS	SANITARY SEWER
CLS	CHLORINE SOLUTION	VNT	VENT
DRN	DRAIN	W	WATER
EFF	EFFLUENT	WST	WASTE
FLS	FLUORIDE SOLUTION		
FINW	FINISHED WATER		
INF	INFLUENT		
LS	LIME SOLUTION		
MW	MIXED WATER		
NHG	AMMONIA GAS		
NHS	AMMONIA SOLUTION		
NPW	NON POTABLE WATER		
OVF	OVERFLOW		
PHS	PHOSPHATE SOLUTION		
PW	POTABLE WATER		

AECOM

PROJECT

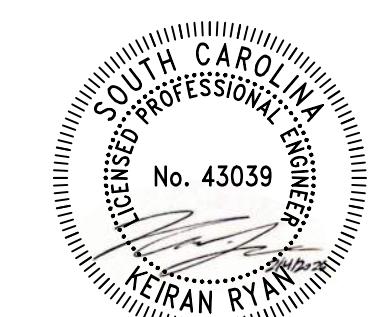
LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT
103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.365.9166
www.aecom.com

REGISTRATIONISSUE/REVISION

SCHEDULE REFERENCES

MARK	DESCRIPTION
2001	DOOR
2001	WINDOW
2001	LOUVER
2001	ROOM FINISH

KEY PLAN

SHEET SCALE: AS SHOWN

PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

GENERAL LEGEND

AND SYMBOLS
BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION

SHEET NUMBER
G01.20

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced, or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent.

LIME SLURRY FEED SYSTEM FOR THE LYALL STREET WATER TREATMENT PLANT

103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ISSUE/REVISION

KEY PLATE

SHEET SCALE: AS SHOWN

PROJECT NUMBER: 60753190

SHEET TITLE

EXISTING SITE & DEMOLITION PLAN

SHEET NUMBER

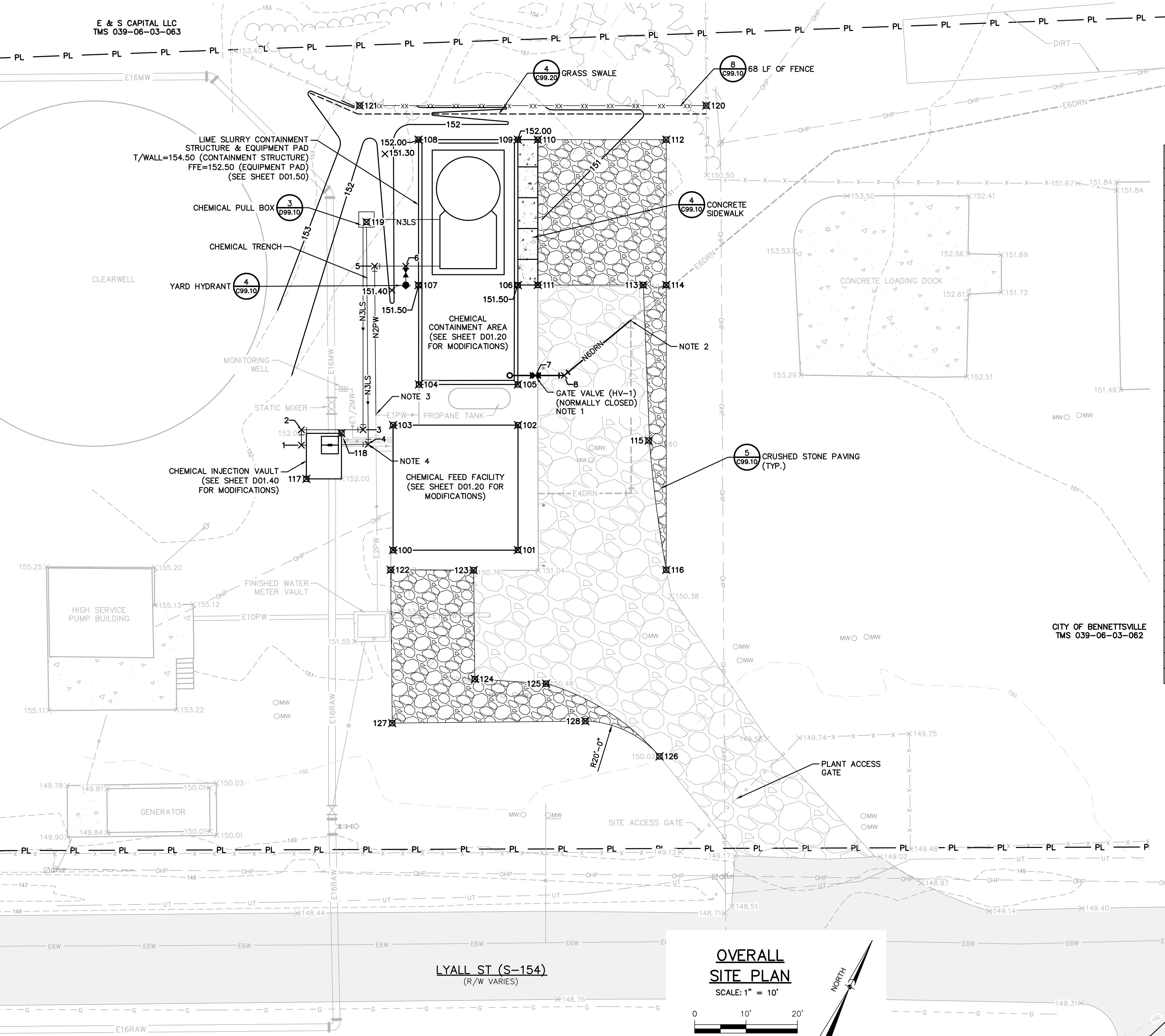
C01.10

EXISTING SITE & DEMOLITION PLAN

SCALE: 1" = 10'

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION



STAKING TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
100	1012602.64	2396858.59	CHEMICAL FEED FACILITY CORNER
101	1012613.49	2396880.32	CHEMICAL FEED FACILITY CORNER
102	1012635.28	2396869.49	CHEMICAL FEED FACILITY CORNER
103	1012624.43	2396847.73	CHEMICAL FEED FACILITY CORNER
104	1012633.77	2396848.71	CHEMICAL CONTAINMENT AREA CORNER
105	1012642.35	2396865.94	CHEMICAL CONTAINMENT AREA CORNER
106	1012659.65	2396857.32	CHEMICAL CONTAINMENT AREA CORNER
107	1012651.03	2396840.01	CHEMICAL CONTAINMENT AREA CORNER
108	1012676.39	2396827.38	LIME SLURRY CONTAINMENT STRUCTURE CORNER
109	1012685.01	2396844.68	LIME SLURRY CONTAINMENT STRUCTURE CORNER
110	1012686.74	2396848.16	SIDEWALK
111	1012661.42	2396860.78	SIDEWALK
112	1012697.90	2396870.53	GRAVEL DRIVEWAY
113	1012670.57	2396879.15	GRAVEL DRIVEWAY
114	1012672.57	2396883.16	GRAVEL DRIVEWAY
115	1012643.92	2396893.59	GRAVEL DRIVEWAY
116	1012622.92	2396907.90	GRAVEL DRIVEWAY
117	1012607.54	2396837.29	CHEMICAL INJECTION VULT
118	1012618.52	2396839.45	CHEMICAL INJECTION VULT
119	1012657.51	2396825.46	CHEMICAL PULL BOX
120	1012707.31	2396874.54	FENCE CORNER
121	1012677.21	2396814.15	FENCE CORNER
122	1012599.00	2396859.87	GRAVEL DRIVEWAY
123	1012606.14	2396874.37	GRAVEL DRIVEWAY
124	1012587.28	2396884.01	GRAVEL DRIVEWAY
125	1012592.66	2396896.83	GRAVEL DRIVEWAY
126	1012589.84	2396922.91	GRAVEL DRIVEWAY
127	1012572.42	2396873.46	GRAVEL DRIVEWAY
128	1012589.55	2396906.94	GRAVEL DRIVEWAY

FITTING & VALVE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	1012612.98	2396833.50	3" RJ PVC 90 BEND
2	1012615.66	2396832.17	3" RJ PVC 90 BEND
3	1012621.02	2396842.91	3" RJ PVC 90 BEND
4	1012618.92	2396845.08	2" RJ PVC 90 BEND
5	1012650.53	2396830.70	2" RJ PVC 90 BEND
6	1012653.24	2396836.13	YARD HYDRANT
7	1012645.44	2396868.22	6" RJ DI GATE VALVE
8	1012647.93	2396873.22	6" RJ DI 45 BEND

I/R	DATE	DESCRIPTION

KEY PLAN
SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER
PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

SHEET TITLE
OVERALL SITE PLAN

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

SHEET NUMBER
C01.20

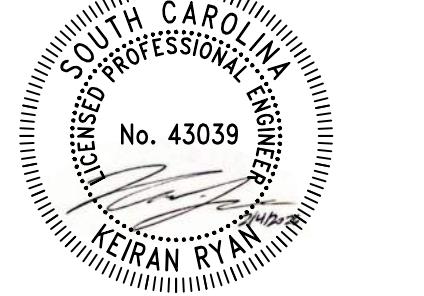
This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not create this document. All measurements must be obtained from the stated dimensions.

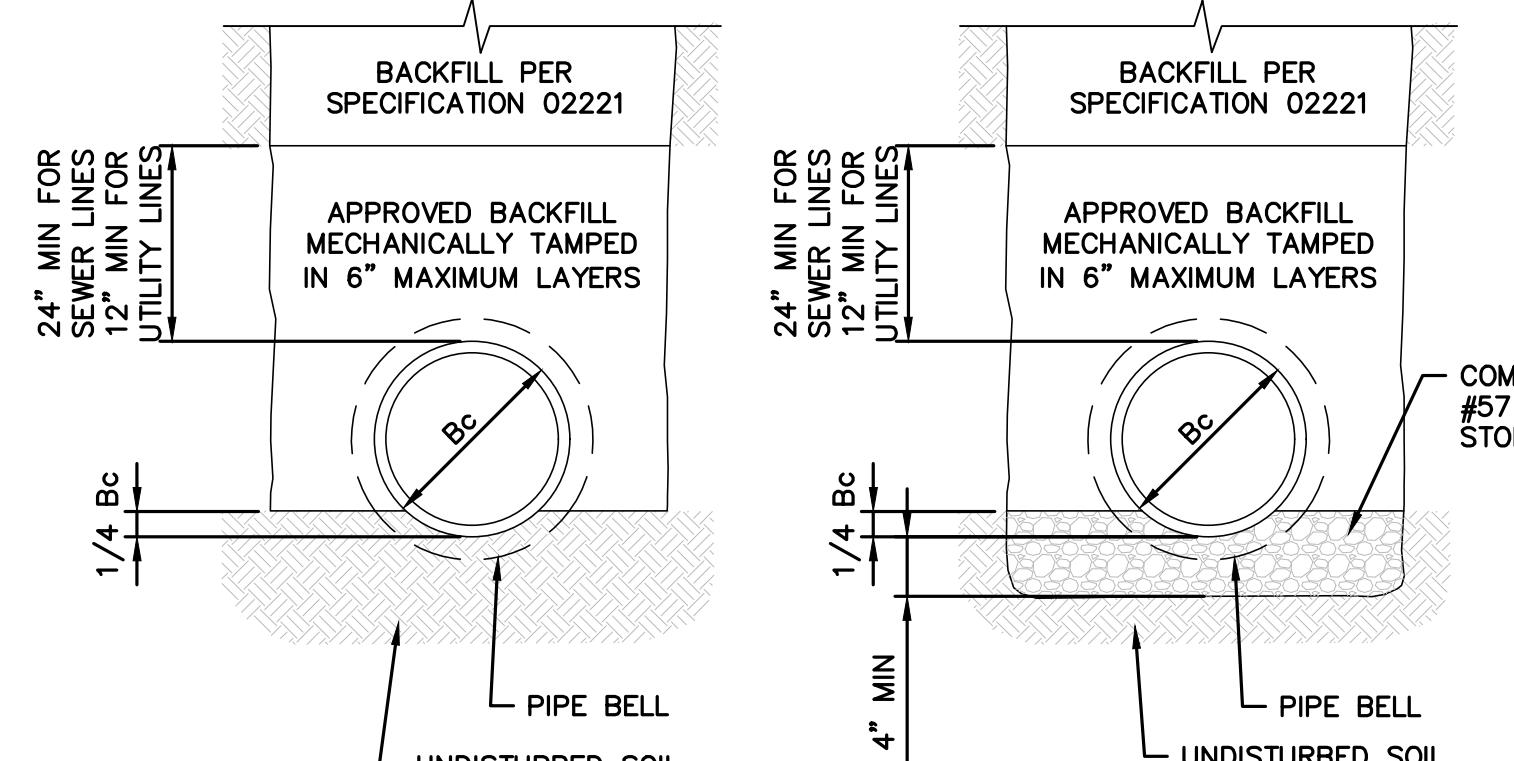
CLIENT
CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT
AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION





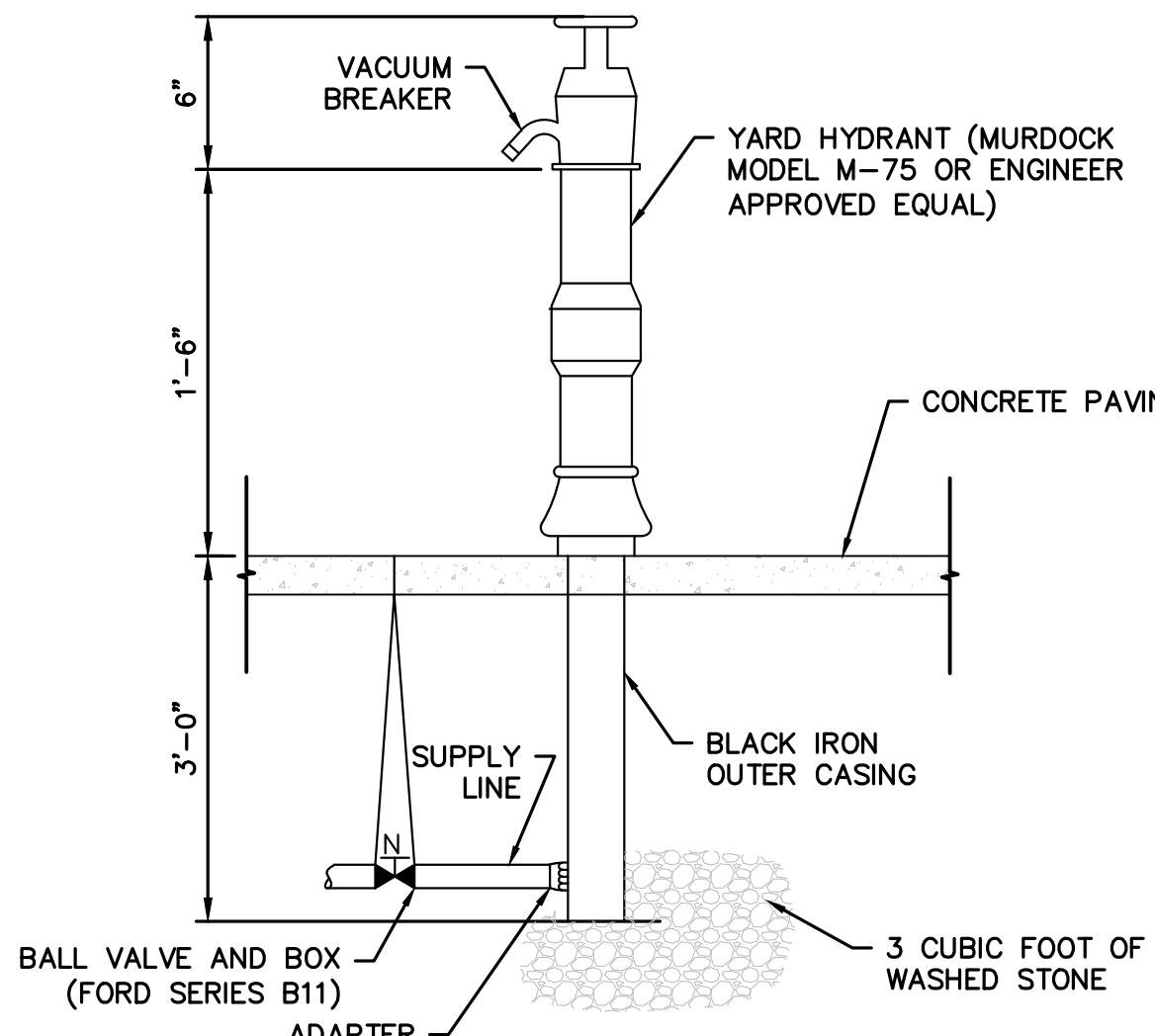


TYPE 1 (NOT FOR GRAVITY LINES)

TYPE 2

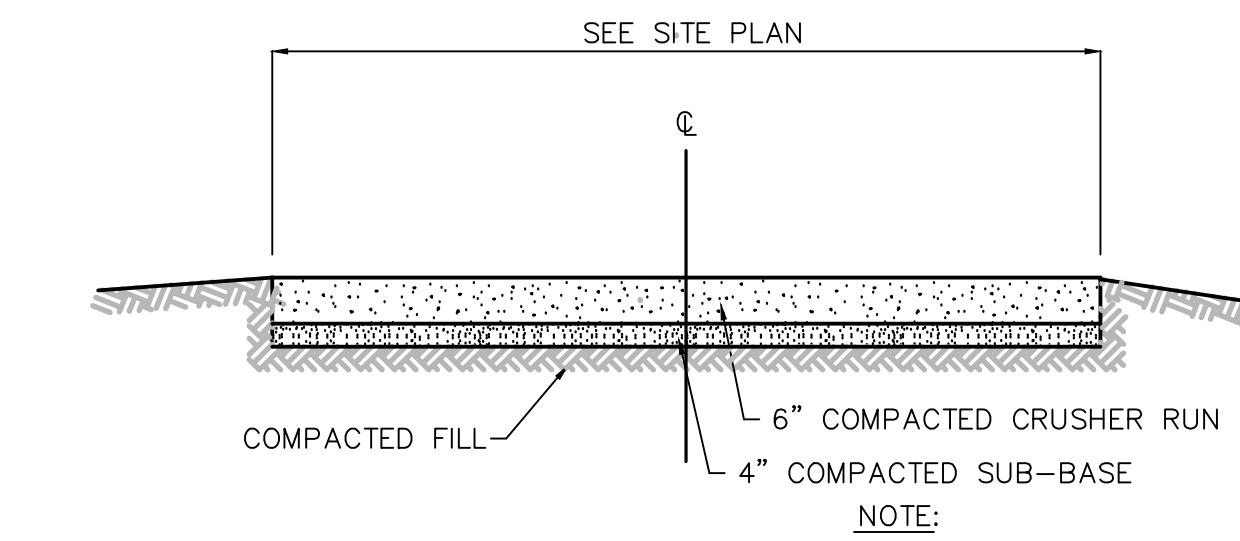
CLASS "C" BEDDING

DETAIL 1 C99.10



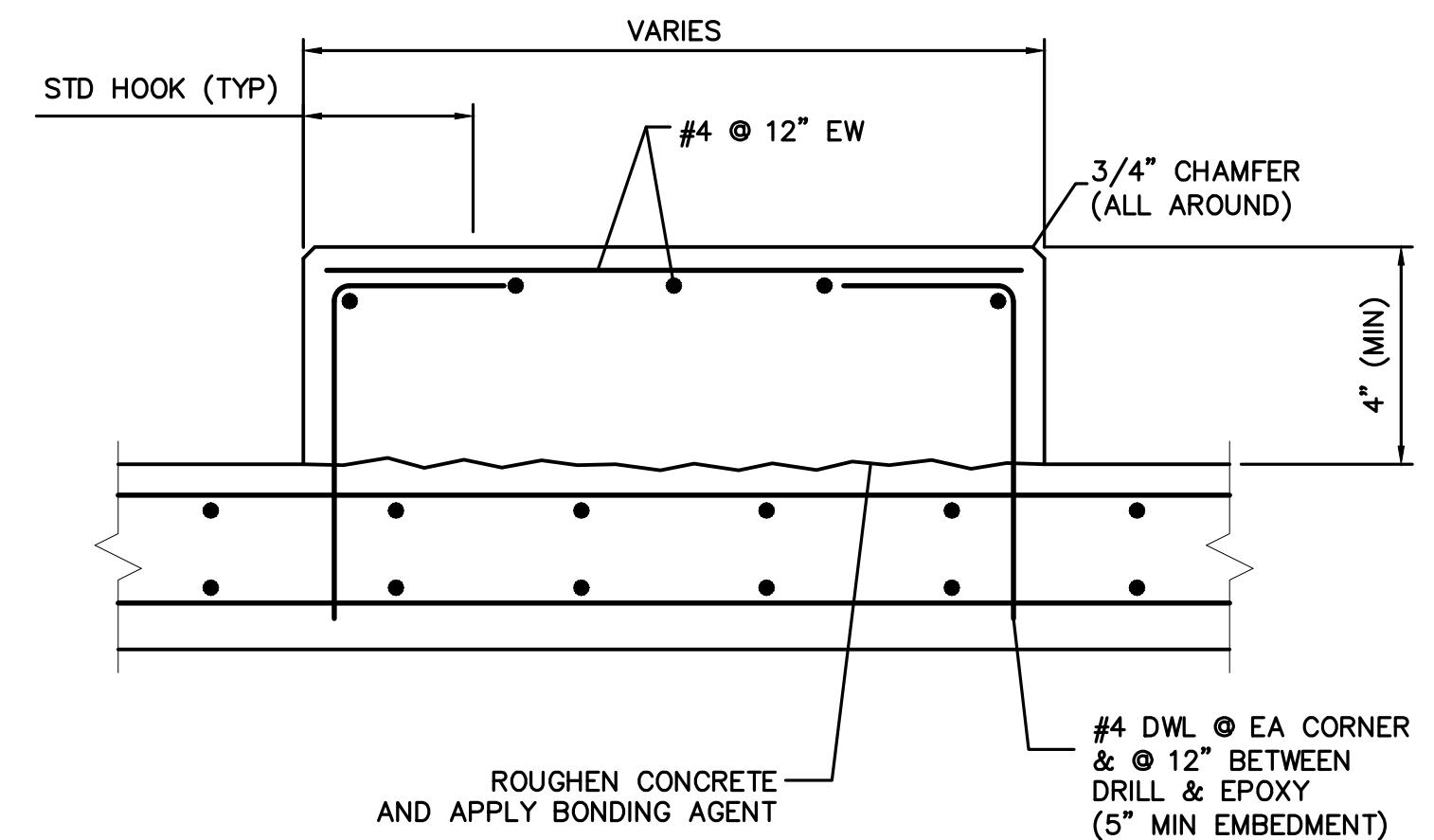
YARD HYDRANT

DETAIL 4 C99.10



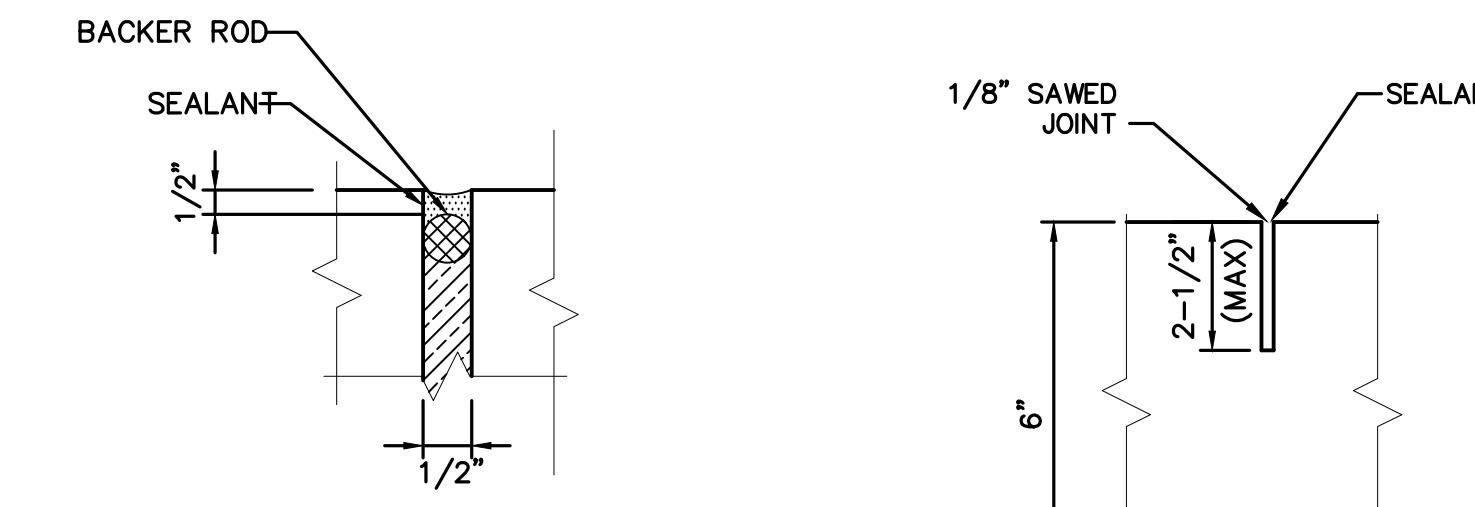
CRUSHED STONE DRIVEWAY

DETAIL 5 C99.10



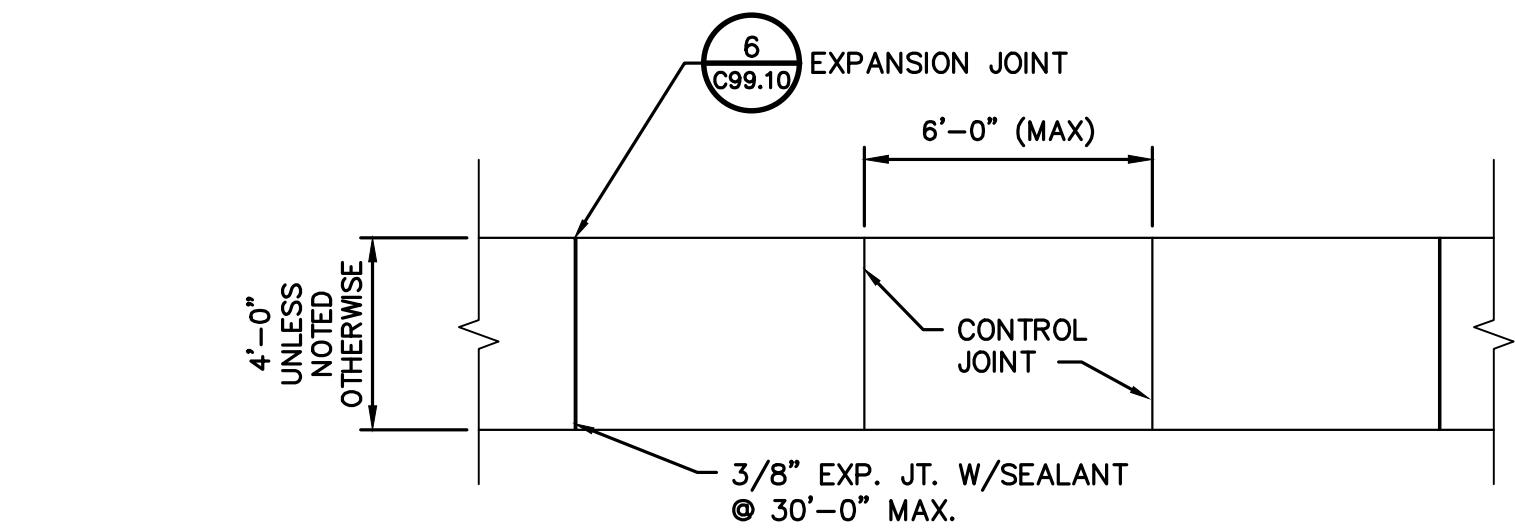
CONCRETE PAD

DETAIL 2 C99.10

NOTES:
1. PROVIDE EXPANSION JOINTS WHERE CONCRETE PAVING ABUTS PRECAST STRUCTURES AND CONCRETE PADS.

EXPANSION JOINT

DETAIL 6 C99.10



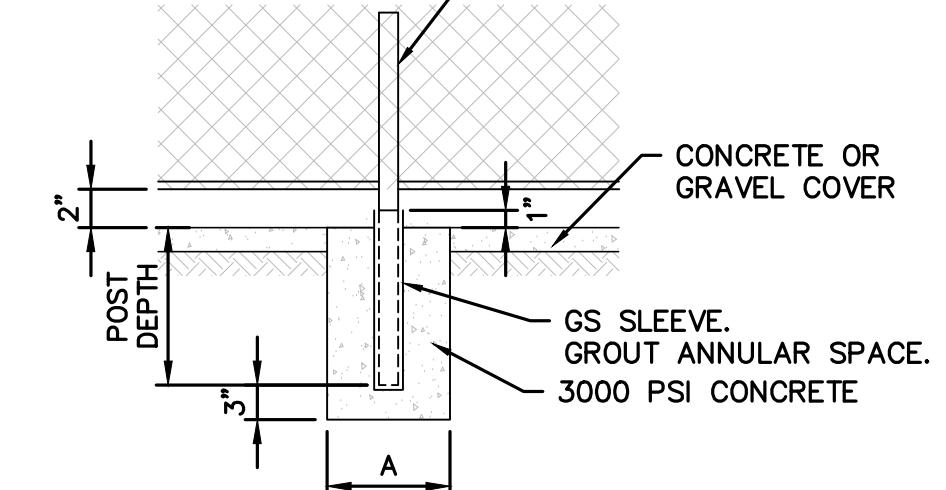
NOTES:

1. MIN. THICKNESS = 4".
2. PROVIDE EXPANSION JOINTS @ INTERSECTIONS OF WALKS AND WHERE WALK ABUTS OTHER STRUCTURES OR AS SPECIFIED.
3. 3000 PSI CONCRETE WITH FIBER REINFORCING AS SPECIFIED.
4. SIDEWALKS TO HAVE LIGHT BROOM FINISH.
5. ALL EDGES TO BE TOOLED.
6. CONTROL JOINTS TO BE TOOLED TO A MIN. DEPTH OF 1".

SIDEWALK

DETAIL 3 C99.10

FOOTING DIMENSIONS		
POST LOCATION	A Ø	DEPTH
LINE POST	1'-2"	3'-0"
CORNER POST	1'-4"	4'-0"
GATE POST	2'-0"	4'-0"
GATE STOP	1'-2"	4'-0"



FENCE POST FOOTING

DETAIL 8 C99.10

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed to by AECOM or as required by law. AECOM accepts no responsibility and denies any liability whatsoever, or to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

PROJECT & FILE NUMBER

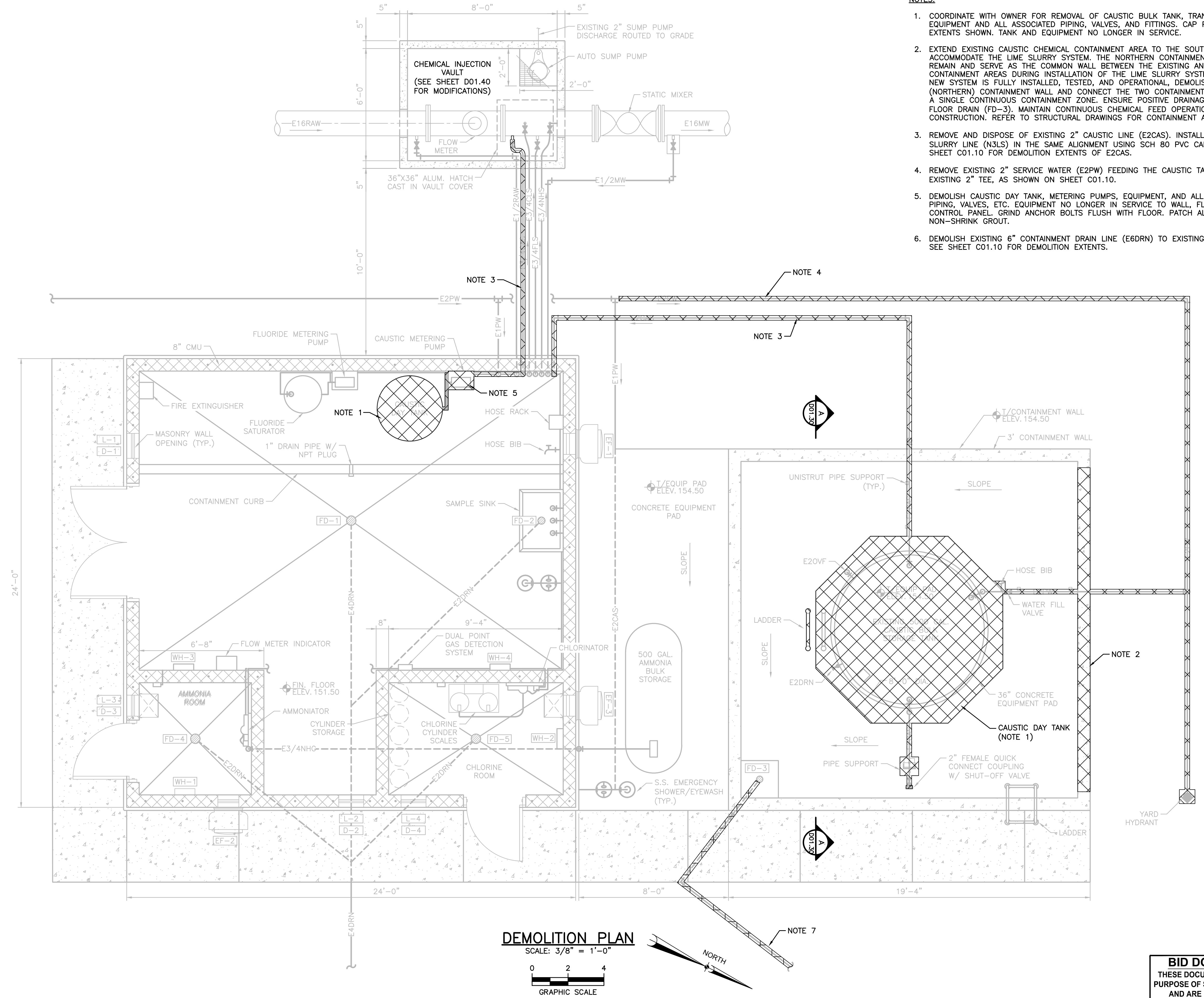
PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

SHEET TITLE

CIVIL DETAILS

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

SHEET NUMBER
C99.10

**NOTES:**

- COORDINATE WITH OWNER FOR REMOVAL OF CAUSTIC BULK TANK, TRANSFER PUMP, EQUIPMENT AND ALL ASSOCIATED PIPING, VALVES, AND FITTINGS. CAP PIPES TO THE EXTENTS SHOWN. TANK AND EQUIPMENT NO LONGER IN SERVICE.
- EXTEND EXISTING CAUSTIC CHEMICAL CONTAINMENT AREA TO THE SOUTH TO ACCOMMODATE THE LIME SLURRY SYSTEM. THE NORTHERN CONTAINMENT WALL SHALL REMAIN AND SERVE AS THE COMMON WALL BETWEEN THE EXISTING AND NEW CONTAINMENT AREAS DURING INSTALLATION OF THE LIME SLURRY SYSTEM. ONCE THE NEW SYSTEM IS FULLY INSTALLED, TESTED, AND OPERATIONAL, DEMOLISH THE COMMON (NORTHERN) CONTAINMENT WALL AND CONNECT THE TWO CONTAINMENT AREAS TO FORM A SINGLE CONTINUOUS CONTAINMENT ZONE. ENSURE POSITIVE DRAINAGE TO EXISTING FLOOR DRAIN (FD-3). MAINTAIN CONTINUOUS CHEMICAL FEED OPERATIONS THROUGH CONSTRUCTION. REFER TO STRUCTURAL DRAWINGS FOR CONTAINMENT AREA DESIGN.
- REMOVE AND DISPOSE OF EXISTING 2" CAUSTIC LINE (E2CAS). INSTALL NEW 3" LIME SLURRY LINE (N3LS) IN THE SAME ALIGNMENT USING SCH 80 PVC CARRIER PIPE. SEE SHEET C01.10 FOR DEMOLITION EXTENTS OF E2CAS.
- REMOVE EXISTING 2" SERVICE WATER (E2PW) FEEDING THE CAUSTIC TANK TO THE EXISTING 2" TEE, AS SHOWN ON SHEET C01.10.
- DEMOLISH CAUSTIC DAY TANK, METERING PUMPS, EQUIPMENT, AND ALL ASSOCIATED PIPING, VALVES, ETC. EQUIPMENT NO LONGER IN SERVICE TO WALL, FLOOR, AND CONTROL PANEL. GRIND ANCHOR BOLTS FLUSH WITH FLOOR. PATCH ALL HOLES WITH NON-SHRINK GROUT.
- DEMOLISH EXISTING 6" CONTAINMENT DRAIN LINE (E6DRN) TO EXISTING 6" WYE FITTING. SEE SHEET C01.10 FOR DEMOLITION EXTENTS.

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

PROJECT**LIME SLURRY FEED SYSTEM FOR THE LYALL STREET WATER TREATMENT PLANT**103 LYALL STREET
BENNETTSVILLE, SC 29512**CLIENT**CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001**CONSULTANT**AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com**REGISTRATION****ISSUE/REVISION****KEY PLAN**
SHEET SCALE: AS SHOWN**PROJECT & FILE NUMBER**
PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001**SHEET TITLE**
CHEMICAL CONTAINMENT AREA DEMOLITION PLANSHEET NUMBER
D01.10
BID DOCUMENTS
 THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

PROJECT

LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ISSUE/REVISION

KEY PLAN

SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER

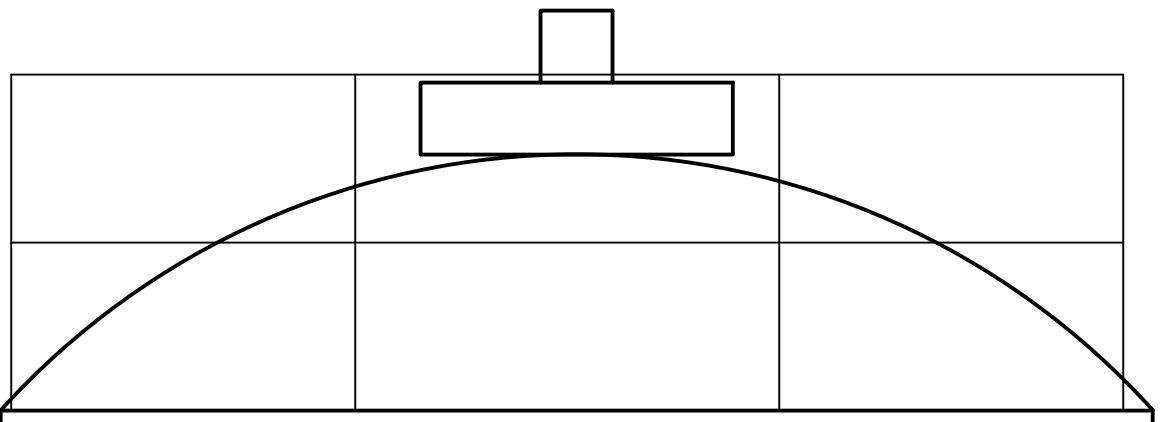
PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

SHEET TITLE

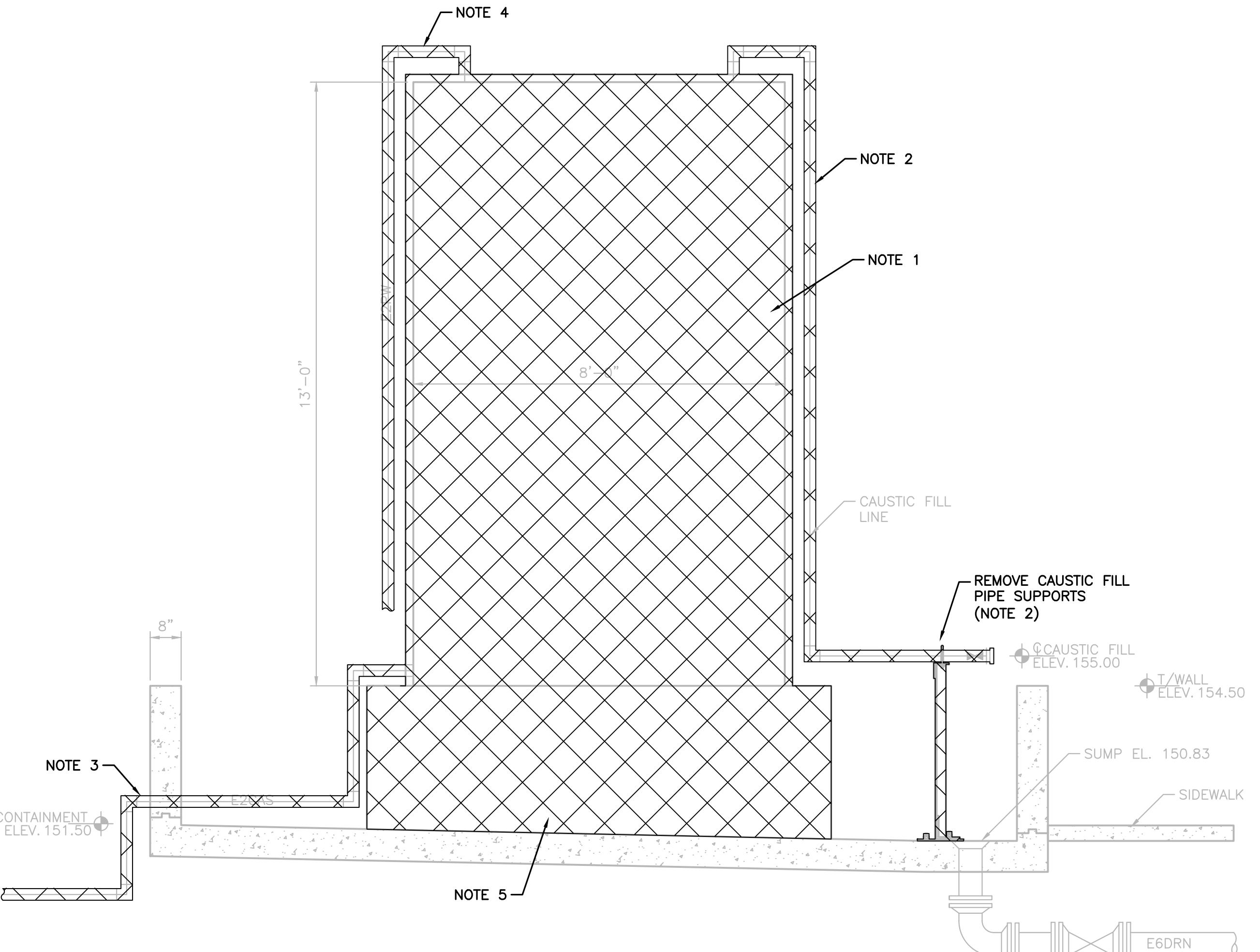
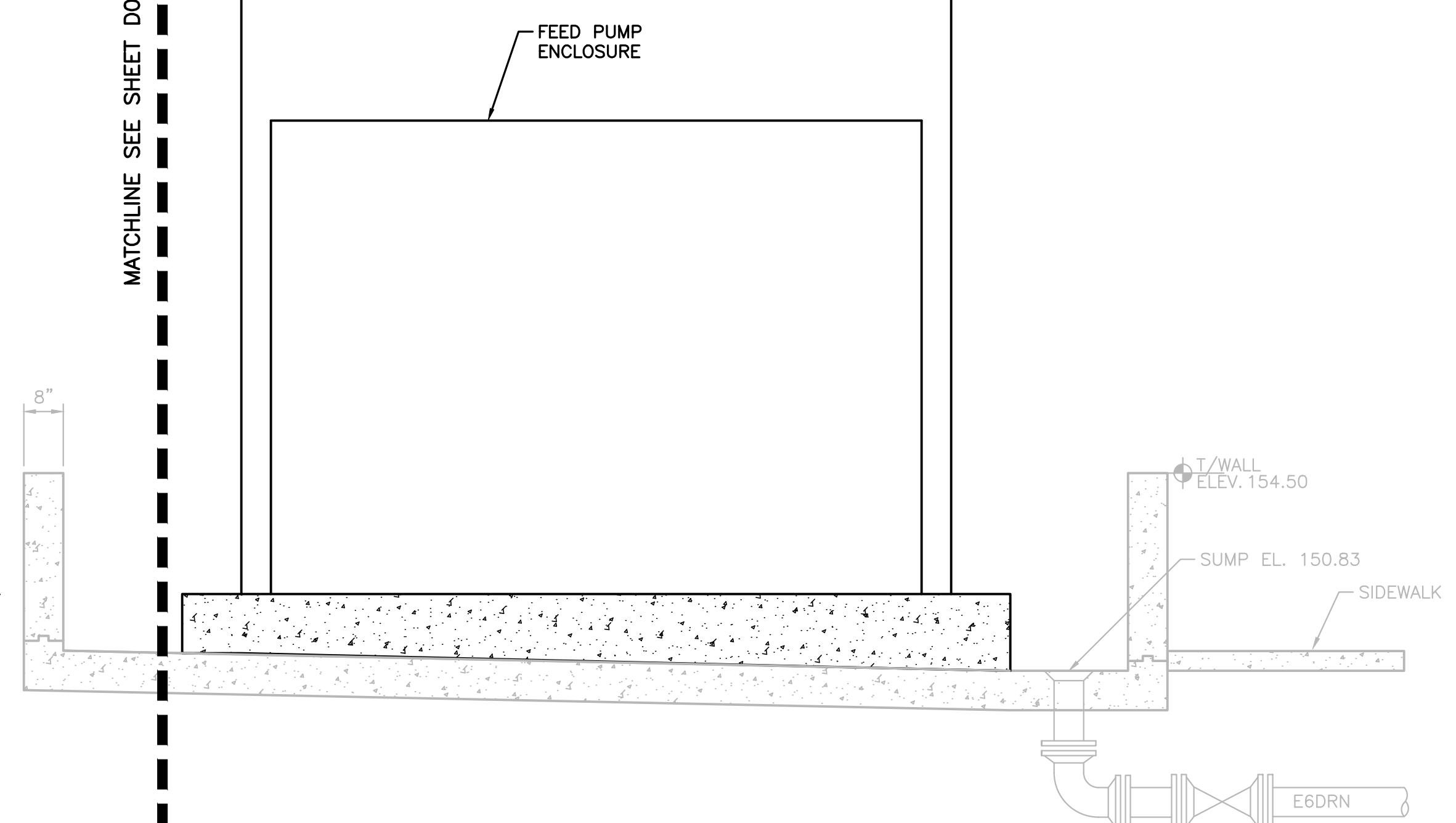
CHEMICAL
CONTAINMENT AREA
DEMOLITION &
MODIFICATIONS
SECTION
SHEET NUMBER
D01.30

NOTES:

1. REMOVE AND DISPOSE OF ONE (1) 8-FOOT DIAMETER, 13-FOOT HIGH CAUSTIC DAY TANK, INCLUDING ALL ASSOCIATED APPURTENANCES. CONTRACTOR SHALL DRAIN, NEUTRALIZE, AND FLUSH TANK IN ACCORDANCE WITH OSHA AND HAZMAT SAFETY GUIDELINES FOR HANDLING CAUSTIC MATERIALS. COORDINATE WITH OWNER FOR DISPOSAL PROCEDURES AND VERIFY TANK IS EMPTY AND SAFE PRIOR TO DEMOLITION. SEE STRUCTURAL DRAWINGS FOR ASSOCIATED FOUNDATION DETAILS.
2. REMOVE AND DISPOSE OF EXISTING 2" CAUSTIC FILL LINE FROM TRUCK CONNECTION TO TANK, INCLUDING ALL ASSOCIATED PIPE SUPPORTS, HANGERS, AND ANCHORS. CONTRACTOR SHALL CAP AND SECURE REMAINING UTILITY POINTS AS REQUIRED. ALL RESIDUAL CHEMICALS SHALL BE FLUSHED AND NEUTRALIZED PRIOR TO REMOVAL. CONTRACTOR SHALL COORDINATE WITH OWNER TO ISOLATE THE SYSTEM AND ENSURE NO ACTIVE FLOW EXISTS. USE PPE AND FOLLOW SAFETY PRACTICES WHEN WORKING WITH RESIDUAL CAUSTIC MATERIALS.
3. REMOVE AND DISPOSE OF EXISTING 2" CAUSTIC FEED LINE FROM TANK TO SYSTEM CONNECTION LINE SHALL BE FLUSHED AND NEUTRALIZED PRIOR TO REMOVAL. CONTRACTOR SHALL COORDINATE WITH OWNER TO ISOLATE THE SYSTEM AND ENSURE NO ACTIVE FLOW EXISTS. USE PPE AND FOLLOW SAFETY PRACTICES WHEN WORKING WITH RESIDUAL CAUSTIC MATERIALS.
4. REMOVE AND DISPOSE OF EXISTING 2" POTABLE WATER LINE SERVING THE TANK AREA. CAP AND SEAL LINE AS DIRECTED BY ENGINEER. CONTRACTOR SHALL TAKE CARE TO AVOID CONTAMINATION OF ACTIVE WATER SYSTEMS. VERIFY ISOLATION WITH OWNER PRIOR TO DEMOLITION.
5. REMOVE AND DISPOSE OF APPROXIMATELY 3-FOOT HIGH ELEVATED CONCRETE PAD PREVIOUSLY SUPPORTING THE CAUSTIC DAY TANK. DEMOLITION SHALL INCLUDE ASSOCIATED ANCHORS, EMBEDS, AND BELOW-GRADE ELEMENTS. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL DRAWINGS FOR PAD REMOVAL LIMITS AND SITE RESTORATION REQUIREMENTS. VERIFY EXISTING UTILITIES BELOW PAD PRIOR TO DEMOLITION.



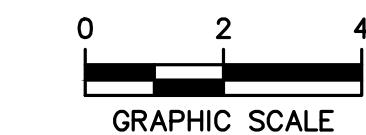
MATCHLINE SEE SHEET D01.50



DEMOLITION

SECTION

SCALE: 1/2" = 1'-0" D01.30

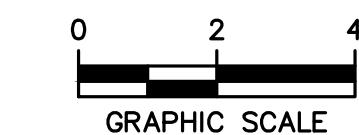


GRAPHIC SCALE

MODIFICATIONS

SECTION

SCALE: 1/2" = 1'-0" D01.30



GRAPHIC SCALE

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced, or relied upon by third parties, except as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

PROJECT

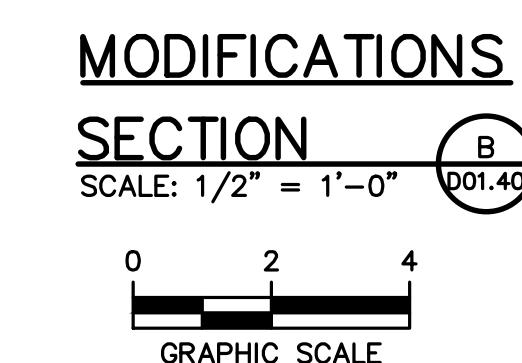
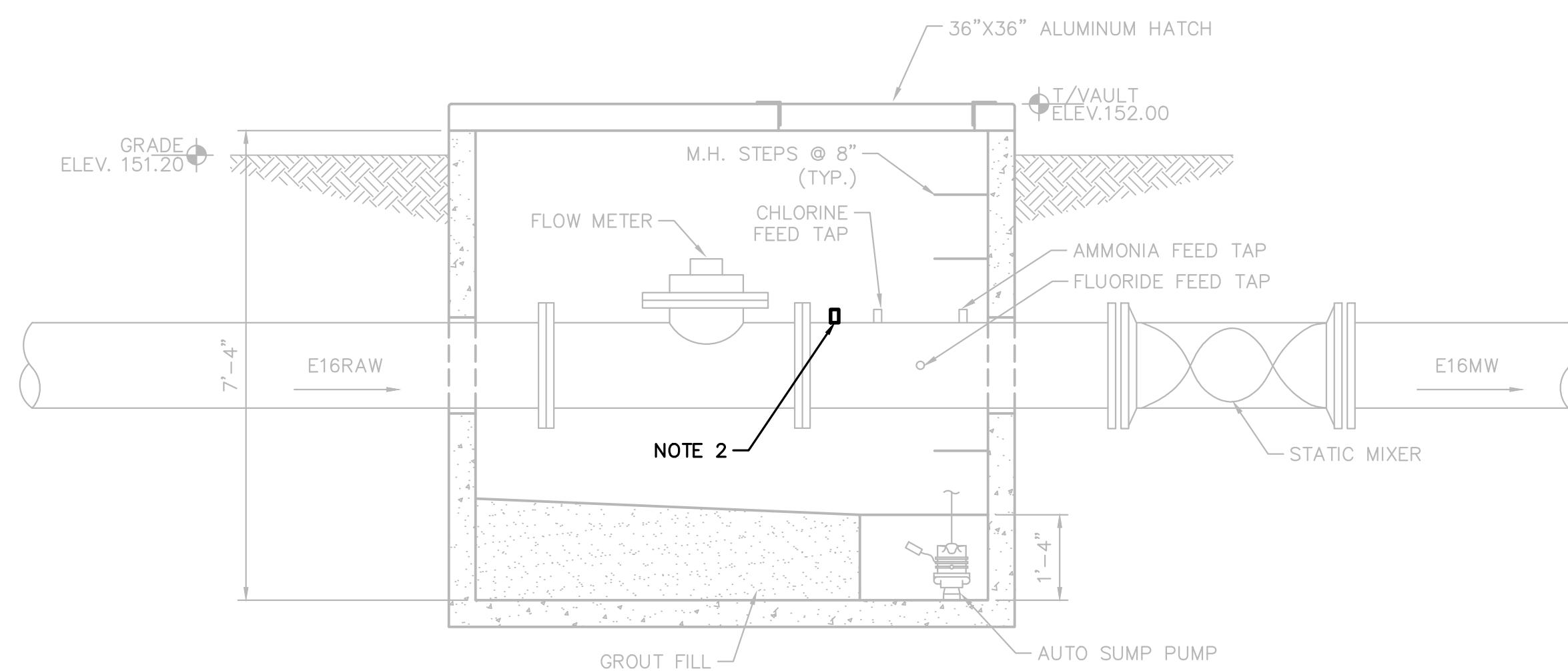
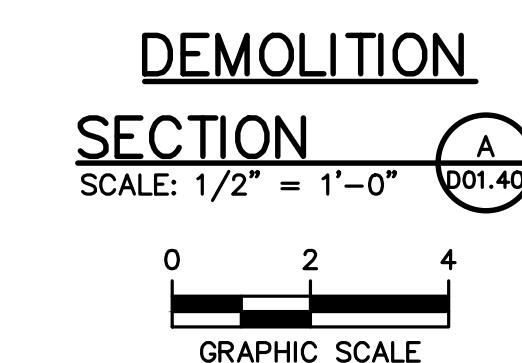
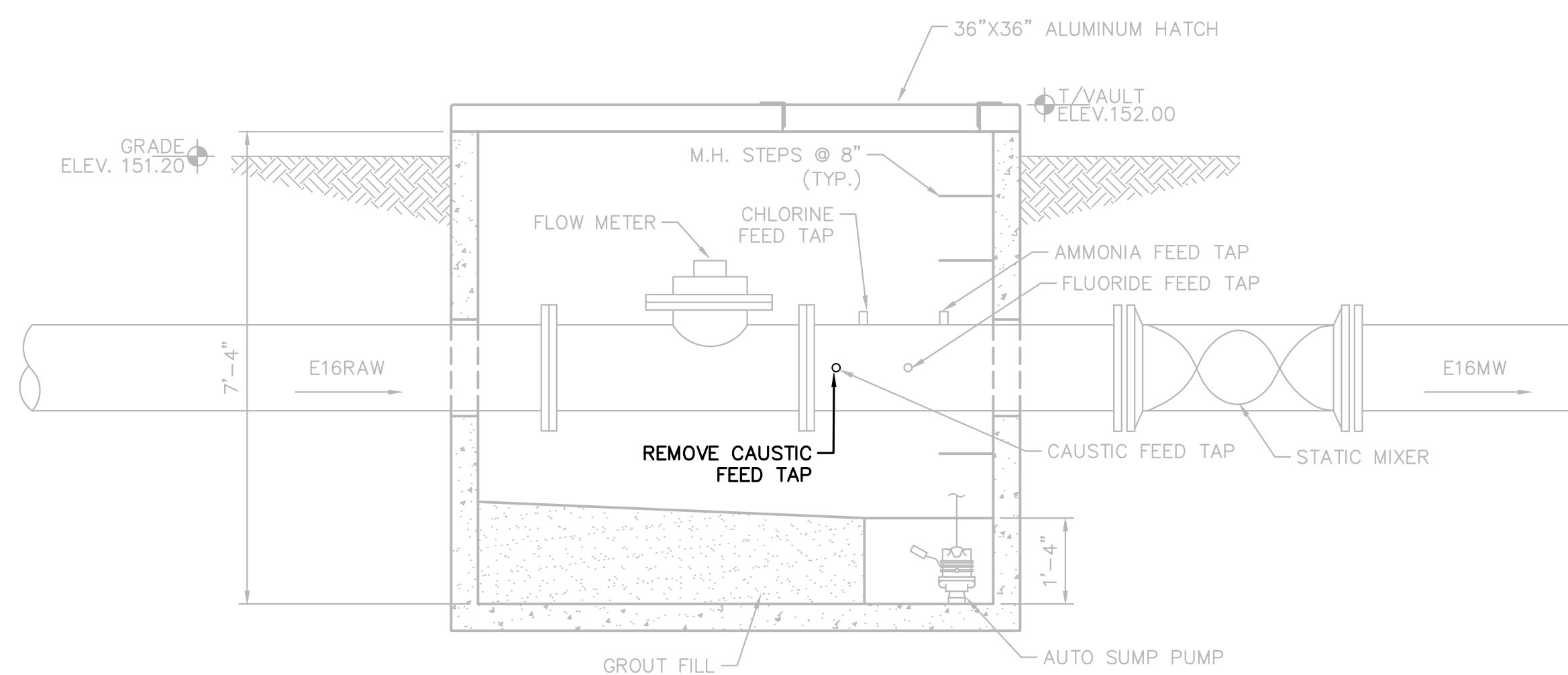
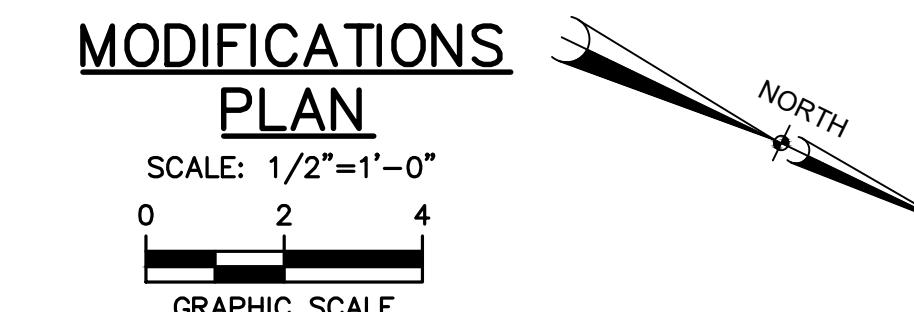
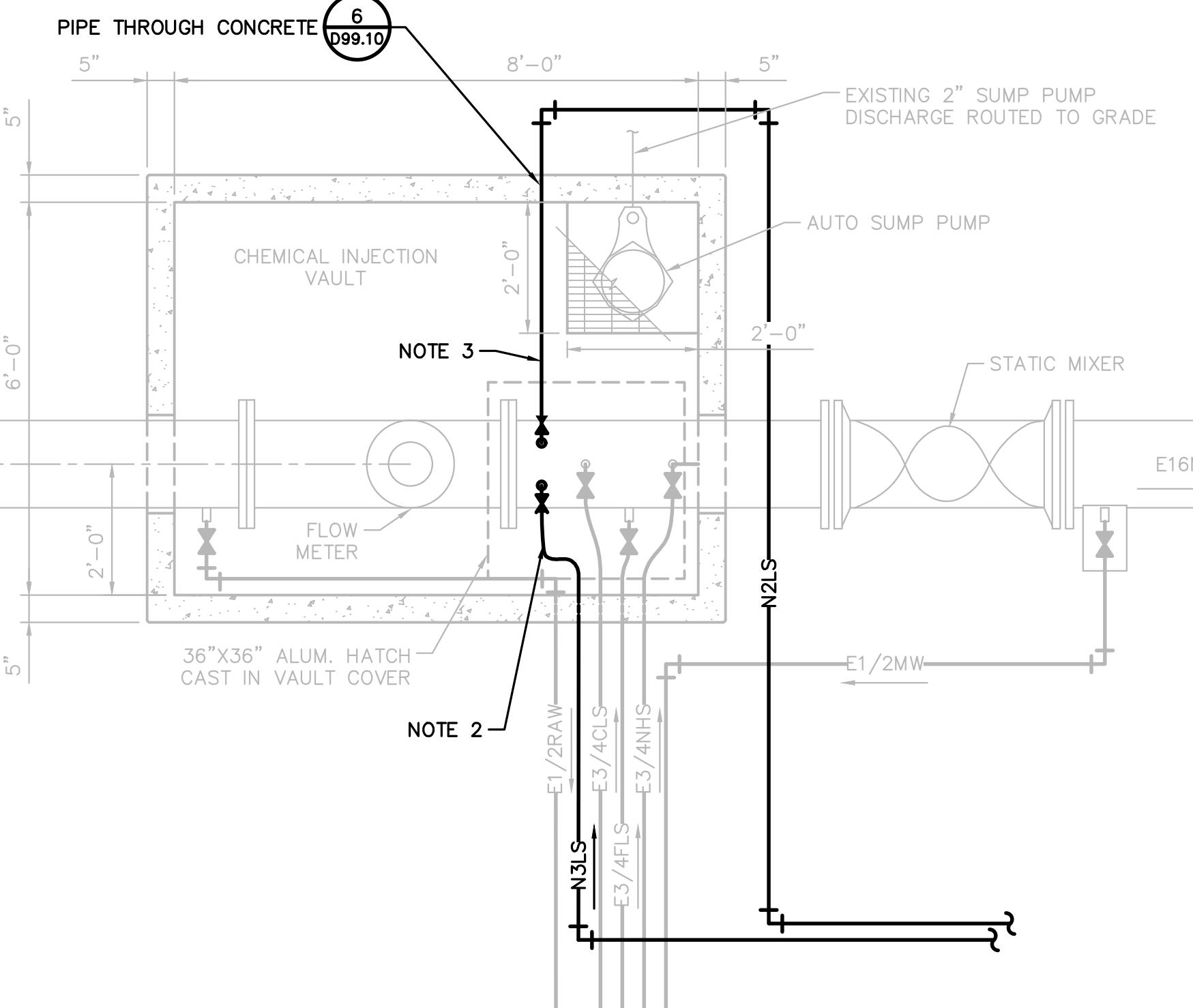
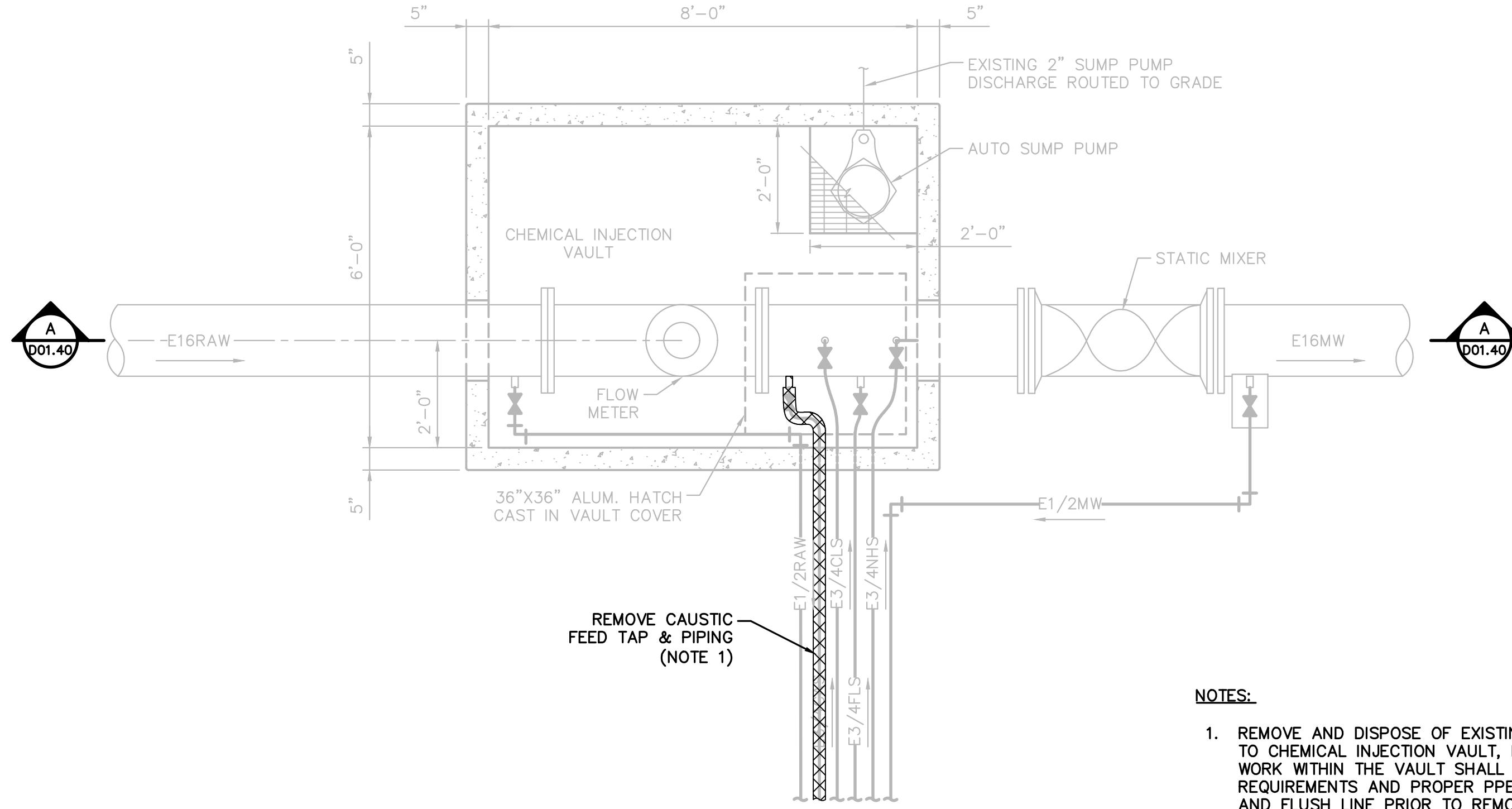
LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT

103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT
CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT
AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

PROJECT & FILE NUMBER
PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001
SHEET TITLE
CHEMICAL
INJECTION VAULT
DEMOLITION &
MODIFICATIONS
SHEET NUMBER
D01.40

PROJECT

LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ISSUE/REVISION

KEY PLAN

SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER

PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

SHEET TITLE

LIME SLURRY
CONTAINMENT
STRUCTURE PLAN
AND SECTION

SHEET NUMBER

D01.50

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

NOTES:

1. SMITH FLOOR DRAIN MODEL 3610T04 OR APPROVED EQUAL. LOCATE FUNNEL DIRECTLY BELOW BACKFLOW PREVENTER. ROUTE 4" DRAIN PIPING WITH P-TRAP TO CONTAINMENT AREA.
2. ULTRASONIC LEVEL SENSOR MOUNTING FLANGE.
3. MOUNT PUMPS ON SST FLOOR STANDS.
4. INSULATE ALL EXPOSED PIPING.
5. 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH UNIONS 2'-0" AFF.
6. STUB UP 6" SCH 80 PVC CONDUIT 12" AFF MINIMUM FOR CHEMICAL FEED TUBING. PROVIDE LONG RADIUS BENDS AT ALL BENDS.
7. THE EXTERIOR OF THE TANK DOME, WALL, AND APPURTENANCES SHALL BE PREPARED BY MANUFACTURER. FIELD PAINTING OF THE EXTERIOR DOME AND WALL BY GENERAL CONTRACTOR, AS SPECIFIED IN SPECIFICATION 11245.
8. EXTEND EXISTING CAUSTIC CHEMICAL CONTAINMENT AREA TO THE SOUTH TO ACCOMMODATE THE LIME SLURRY SYSTEM. THE NORTHERN CONTAINMENT WALL SHALL REMAIN AND SERVE AS THE COMMON WALL BETWEEN THE EXISTING AND NEW CONTAINMENT AREAS DURING INSTALLATION OF THE LIME SLURRY SYSTEM. ONCE THE NEW SYSTEM IS FULLY INSTALLED, TESTED, AND OPERATIONAL, DEMOLISH THE COMMON (NORTHERN) CONTAINMENT WALL AND CONNECT THE TWO CONTAINMENT AREAS TO FORM A SINGLE CONTINUOUS CONTAINMENT ZONE. ENSURE POSITIVE DRAINAGE TO EXISTING FLOOR DRAIN (FD-3). MAINTAIN CONTINUOUS CHEMICAL FEED OPERATIONS THROUGH CONSTRUCTION. REFER TO STRUCTURAL DRAWINGS FOR CONTAINMENT AREA DESIGN.

ANSI D 22" x 34"

Approved: ** fill in **

Checked: ** fill in **

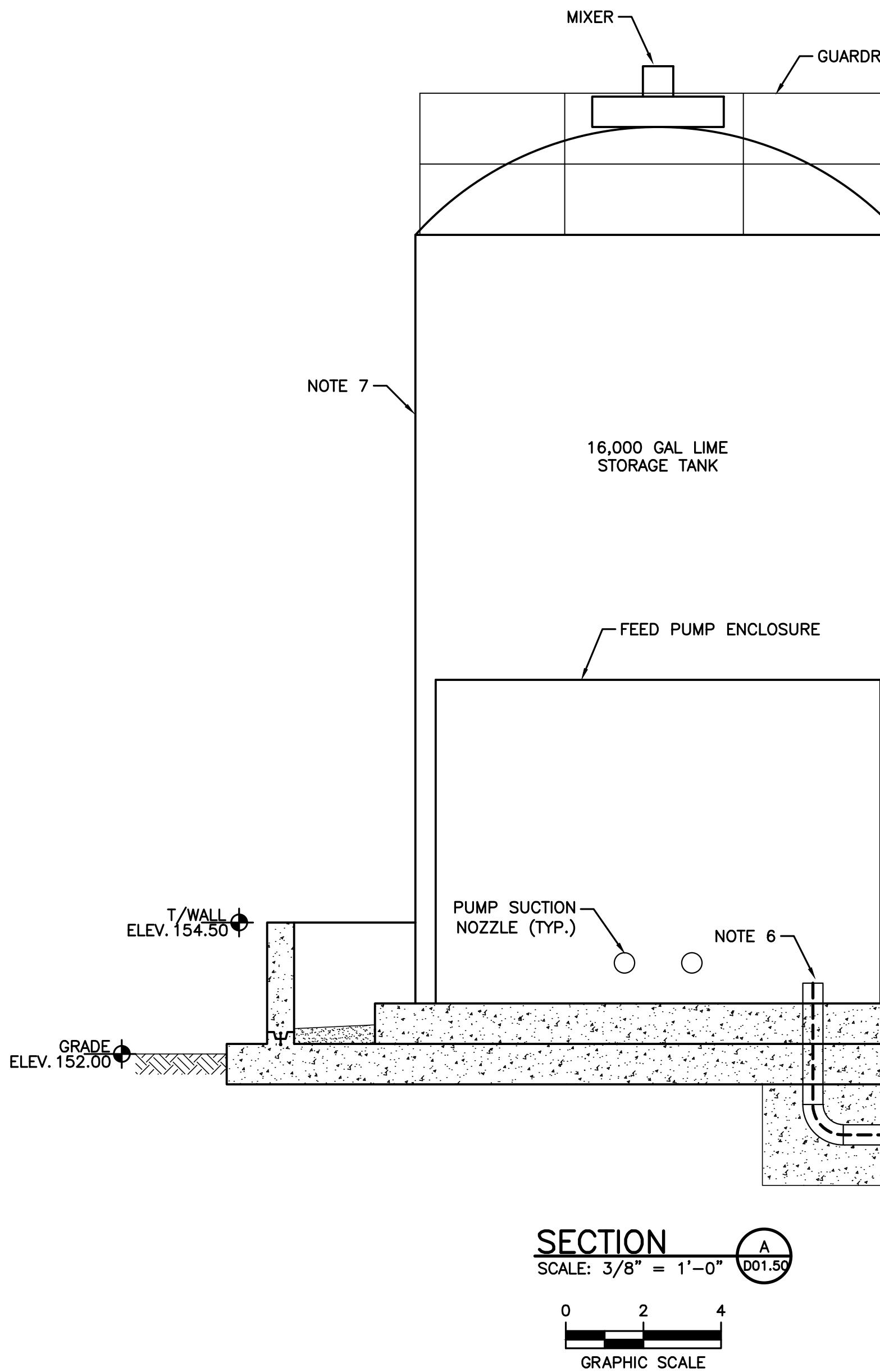
Drafter: ** fill in **

Designer: ** fill in **

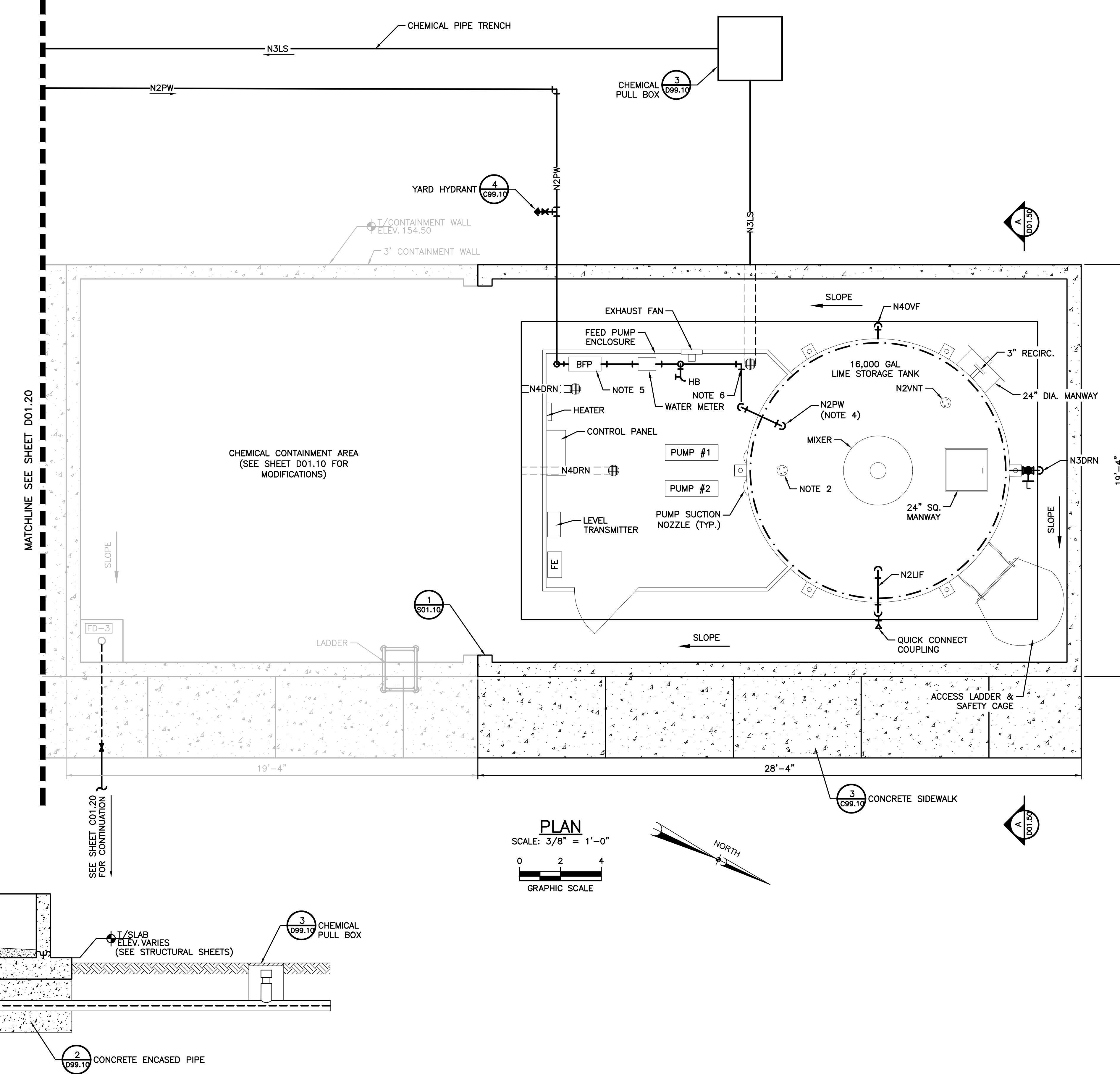
Project Eng.: ** fill in **

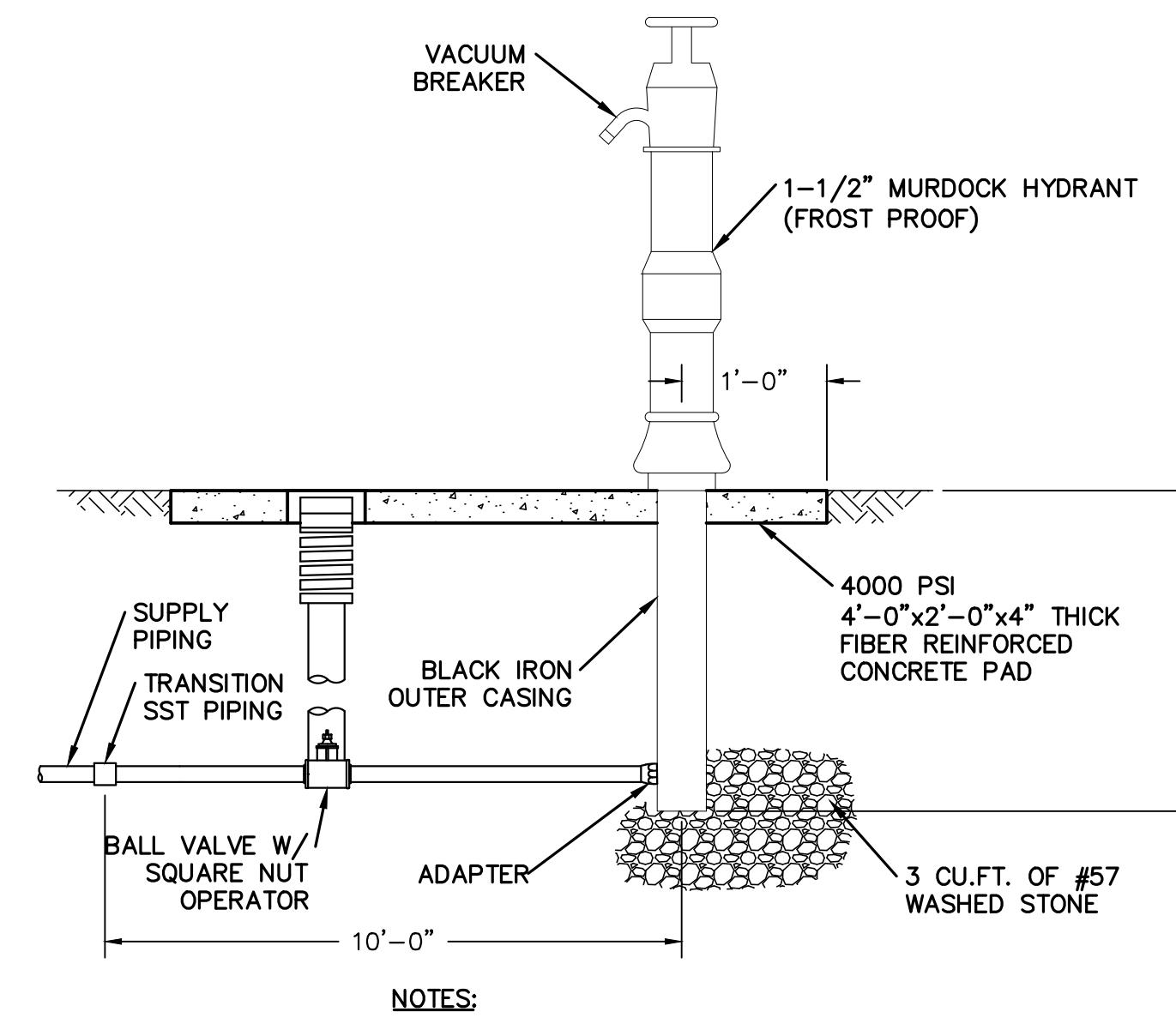
Project Management Initials: Project Eng.: ** fill in **

D-P-PROCESS DWG



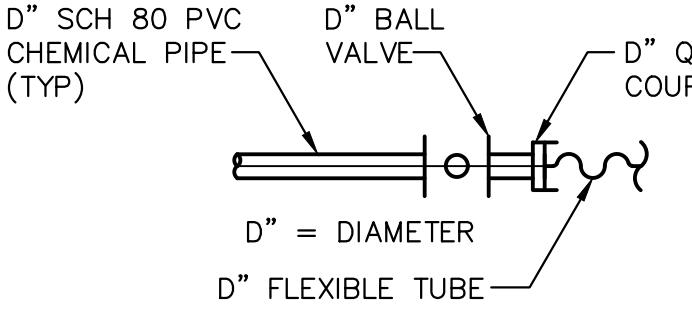
MATCHLINE SEE SHEET D01.20


BID DOCUMENTS
 THESE DOCUMENTS ARE FOR THE
 PURPOSE OF SOLICITATION OF BIDS
 AND ARE NOT FOR USE FOR
 CONSTRUCTION

POST HYDRANTDETAIL

SCALE: NONE

D99.10

HARD PIPE TO FLEX TUBE TRANSITIONDETAIL

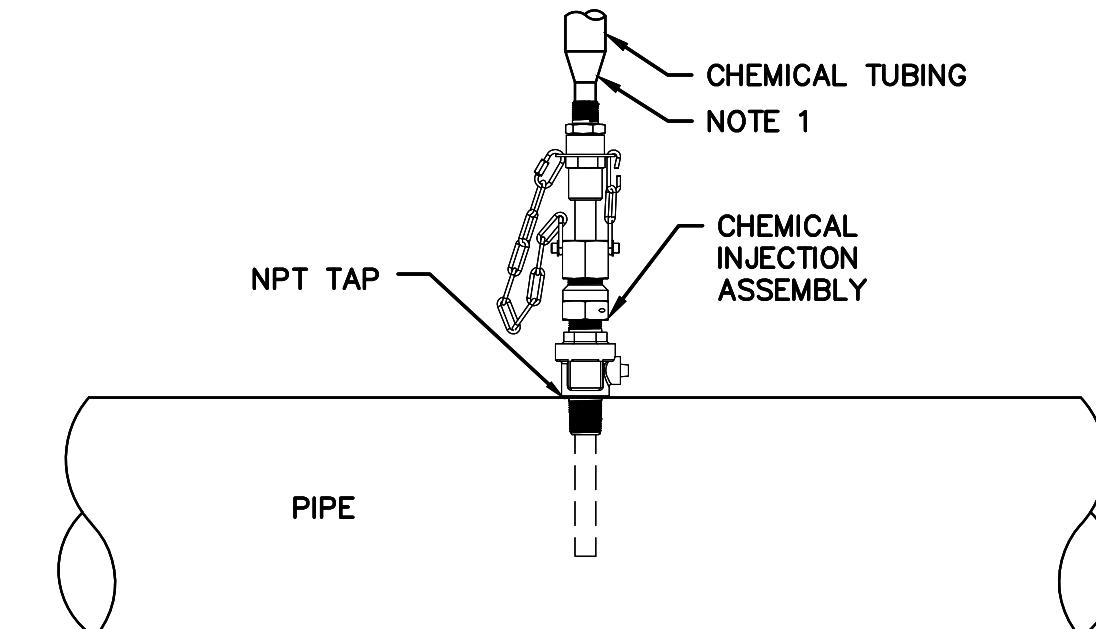
SCALE: NONE

D99.10

JUNCTION BOX TUBING CONNECTIONDETAIL

SCALE: NONE

D99.10



NOTES:

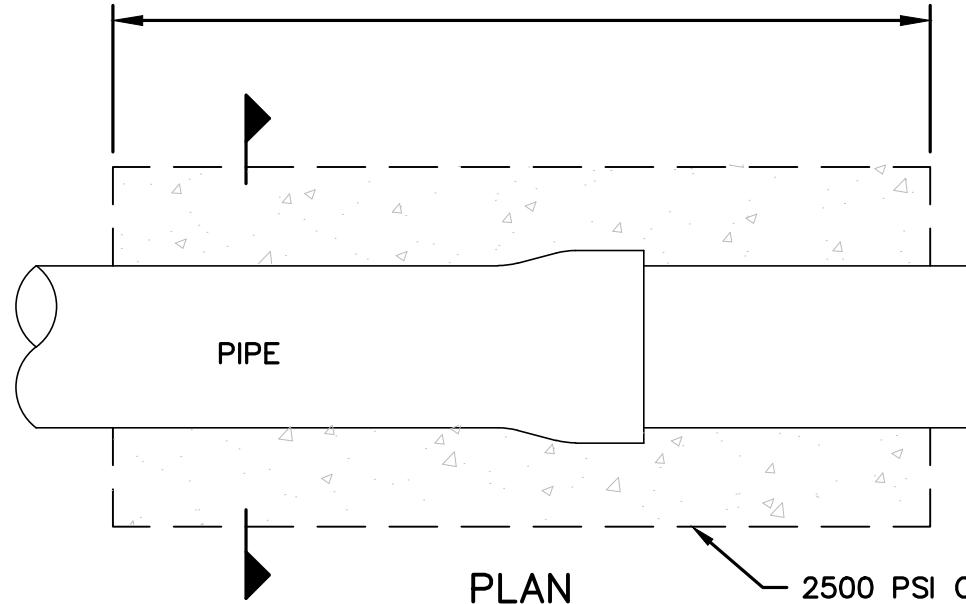
1. PROVIDE REDUCER, COUPLINGS, AND MISCELLANEOUS PIPE FITTINGS AS REQUIRED TO CONNECT CHEMICAL INJECTION LINES TO THE PIPE TAP.

CHEMICAL INJECTION ASSEMBLYDETAIL

SCALE: NONE

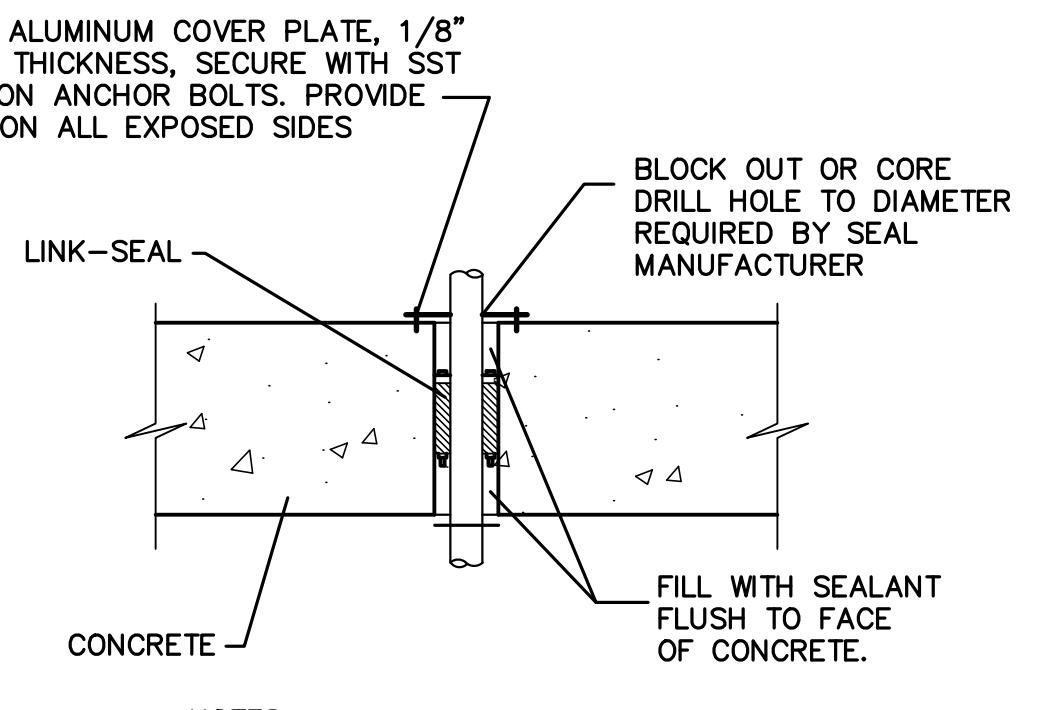
D99.10

ENCASE PIPING WHERE INDICATED AND UNDER ROADS, STRUCTURES, AND WITHIN LAGOON OR POND DIKES TO A POINT 12" BEYOND PERMANENT OBJECT ON EACH SIDE OF ENCASING.

CONCRETE ENCASED PIPEDETAIL

SCALE: NONE

D99.10



1. IF REINFORCEMENT IS CUT, PAINT ENDS PRIOR TO SEALING

PIPE THROUGH CONCRETEDETAIL

SCALE: NONE

D99.10

2 PIECE ALUMINUM COVER PLATE, 1/8" MINIMUM THICKNESS, SECURE WITH SST EXPANSION ANCHOR BOLTS. PROVIDE PLATES ON ALL EXPOSED SIDES

BLOCK OUT OR CORE DRILL HOLE TO DIAMETER REQUIRED BY SEAL MANUFACTURER

LINK-SEAL

SECURE TUBING TO PIPE SUPPORT WITH PVC CLAMP

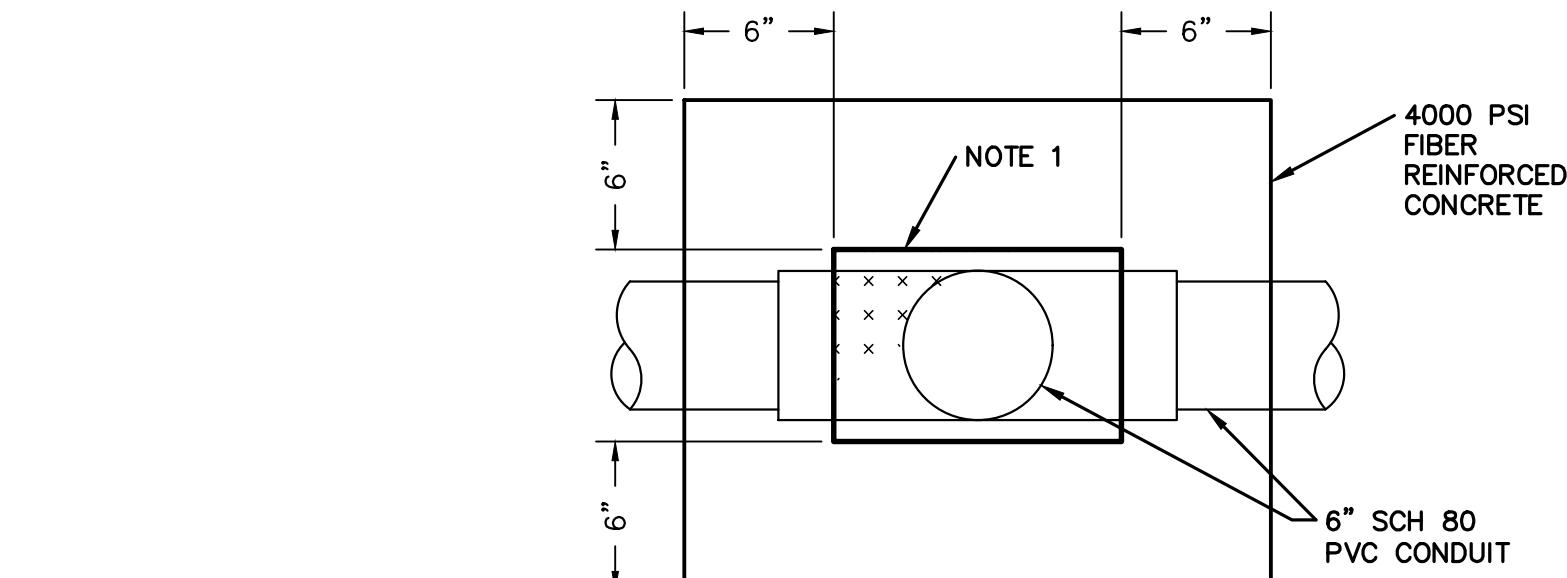
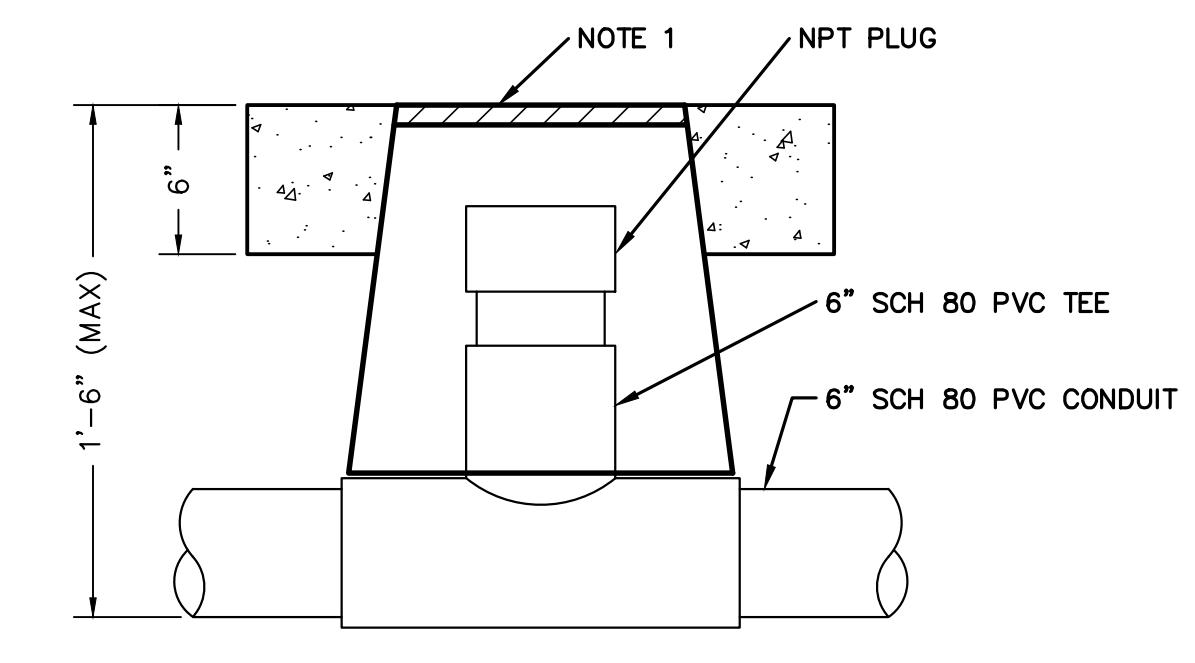
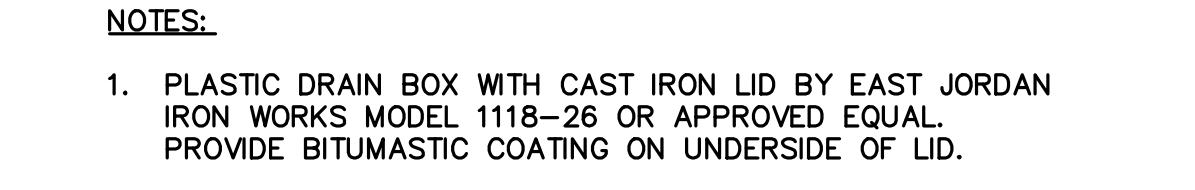
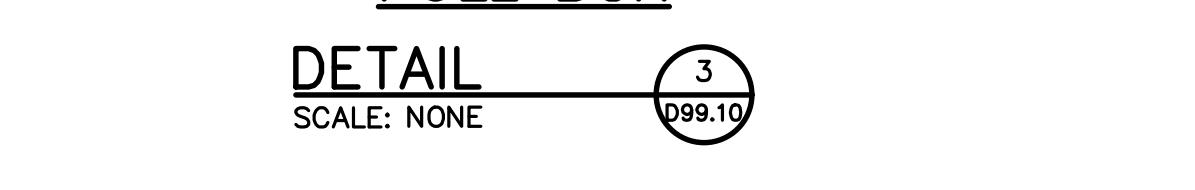
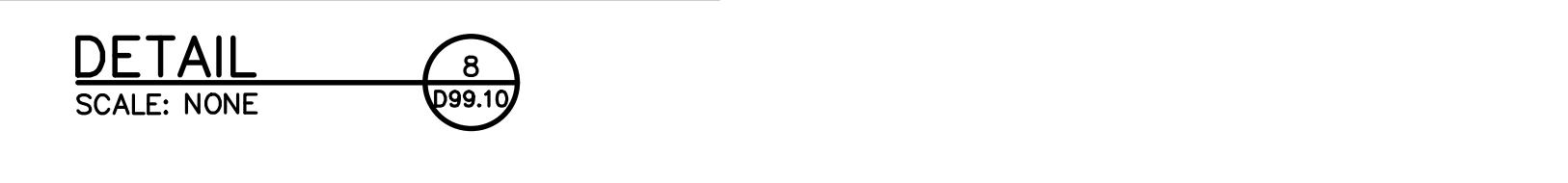
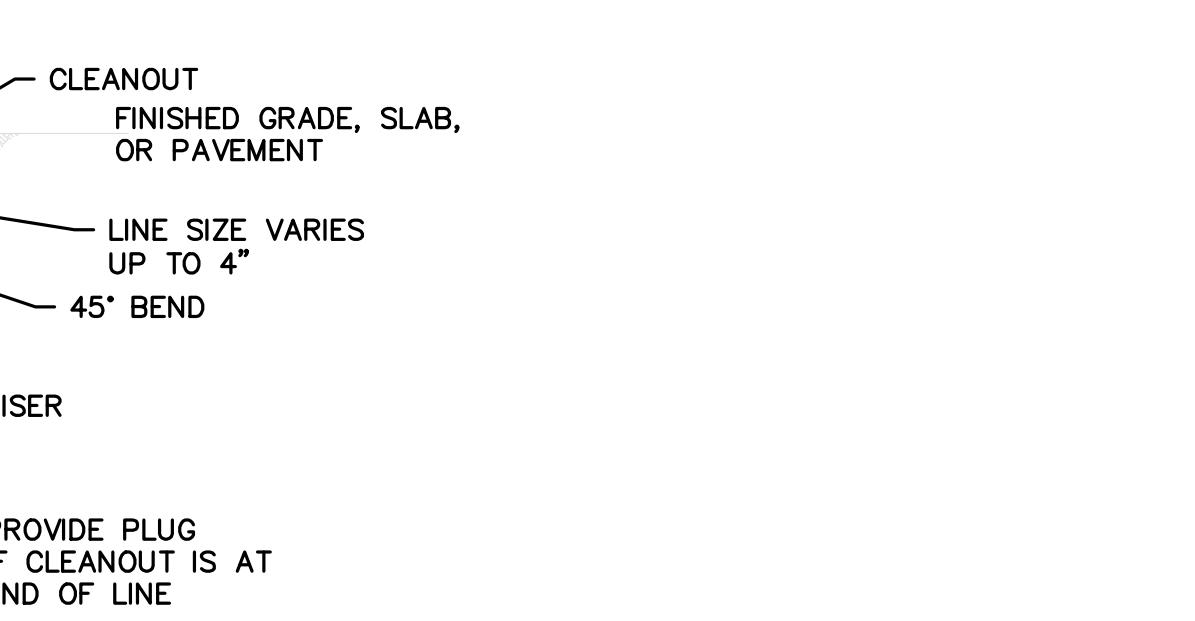
PIPE SUPPORT

QUICK CONNECT

CHIMICAL TUBING

CONCRETE

FILL WITH SEALANT FLUSH TO FACE OF CONCRETE.

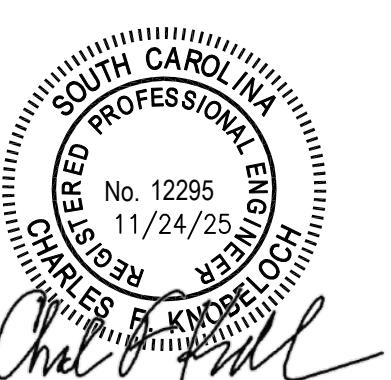
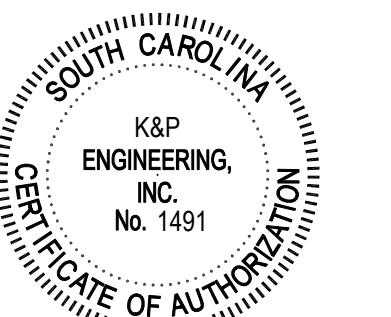
EXTERIOR GRAVITY CLEANOUTPLANSECTIONPLANSECTION

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced, or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent.

PROJECT & FILE NUMBERPROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001SHEET TITLEMISCELLANEOUS
DETAILS ISHEET NUMBER

D99.10

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION



SHEET SCALE: AS SHOWN

ISSUE/REVISION

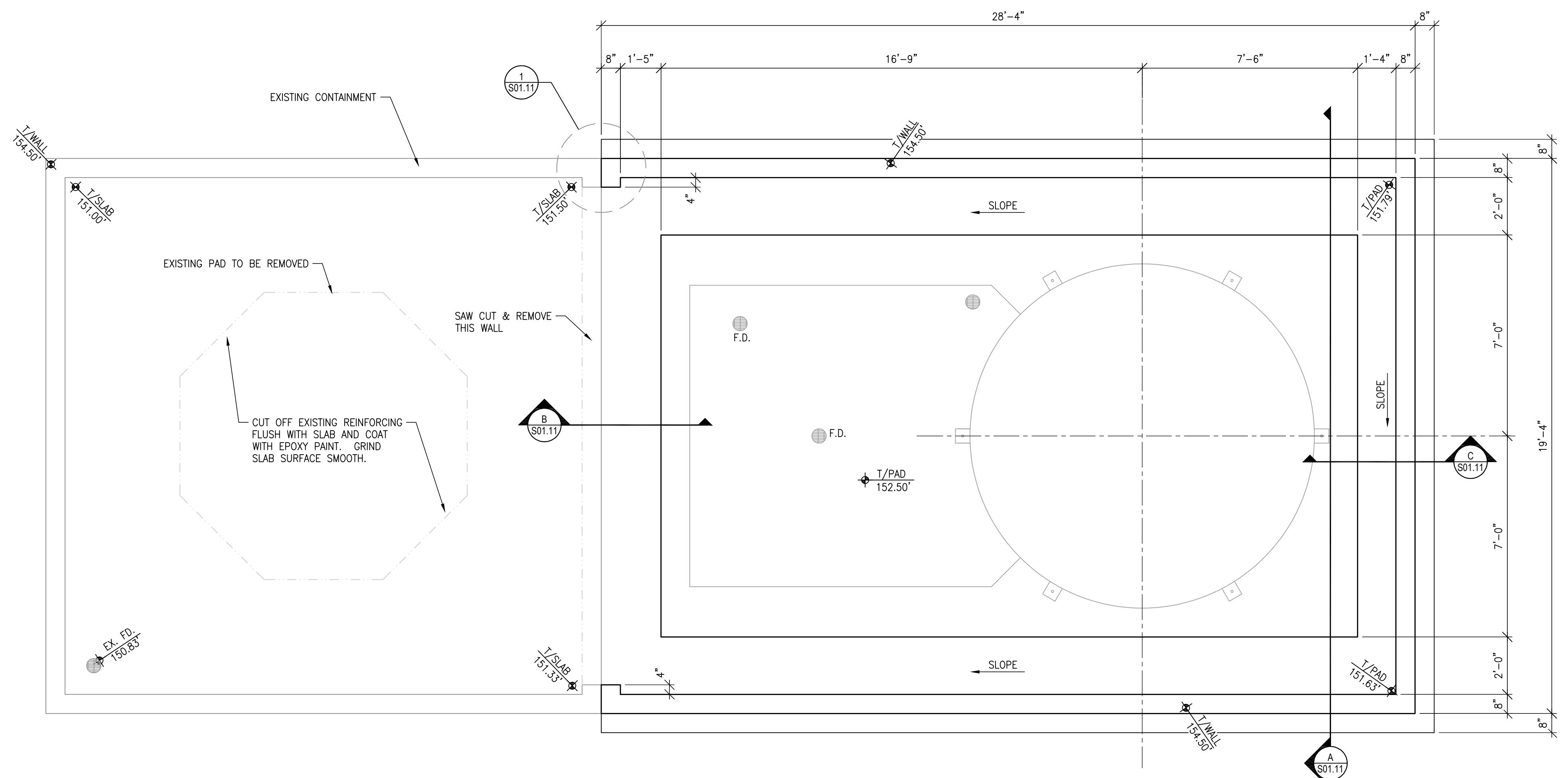
I/R	DATE	DESCRIPTION

K&P JOB NUMBER: 25-123

SHEET TITLE

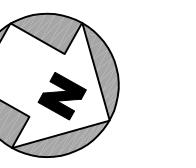
TIME-SLIC FOUNDATION PLAN

SHEET NUMBER
S01.10

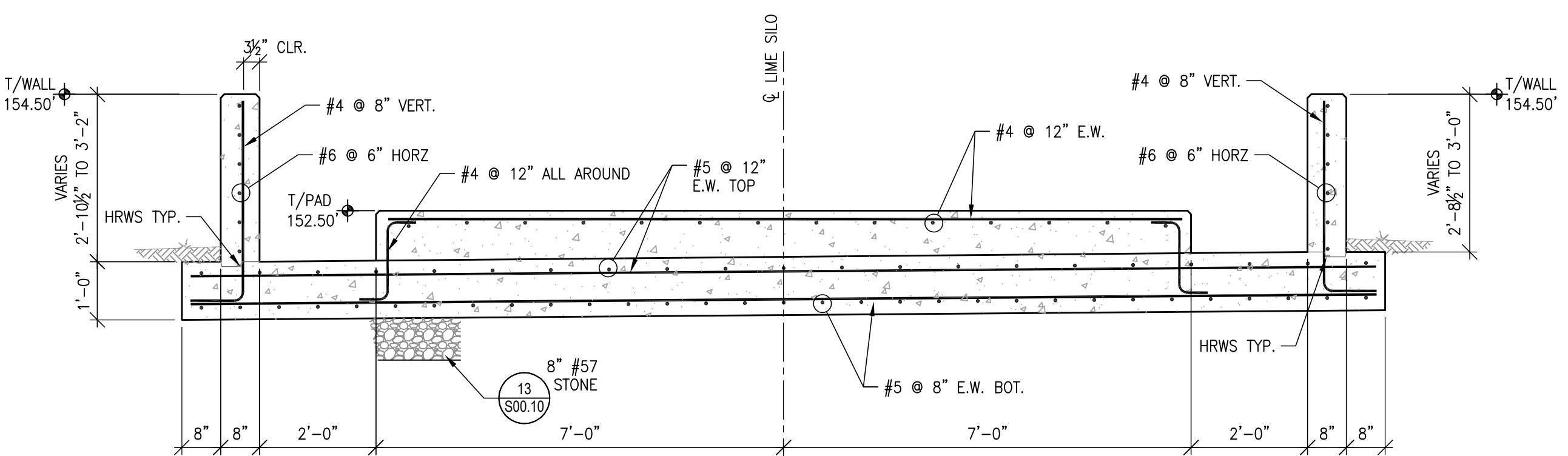


LIME SILO FOUNDATION PLAN

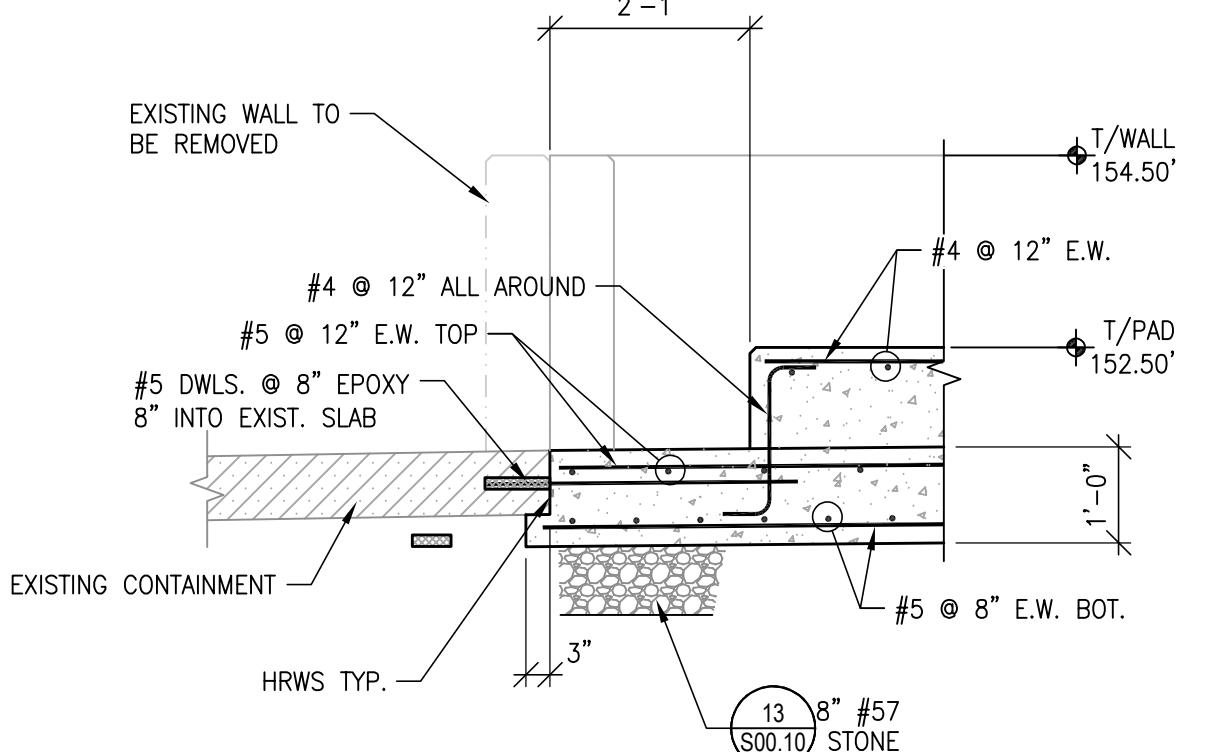
SCALE: 3/8" = 1'-0"



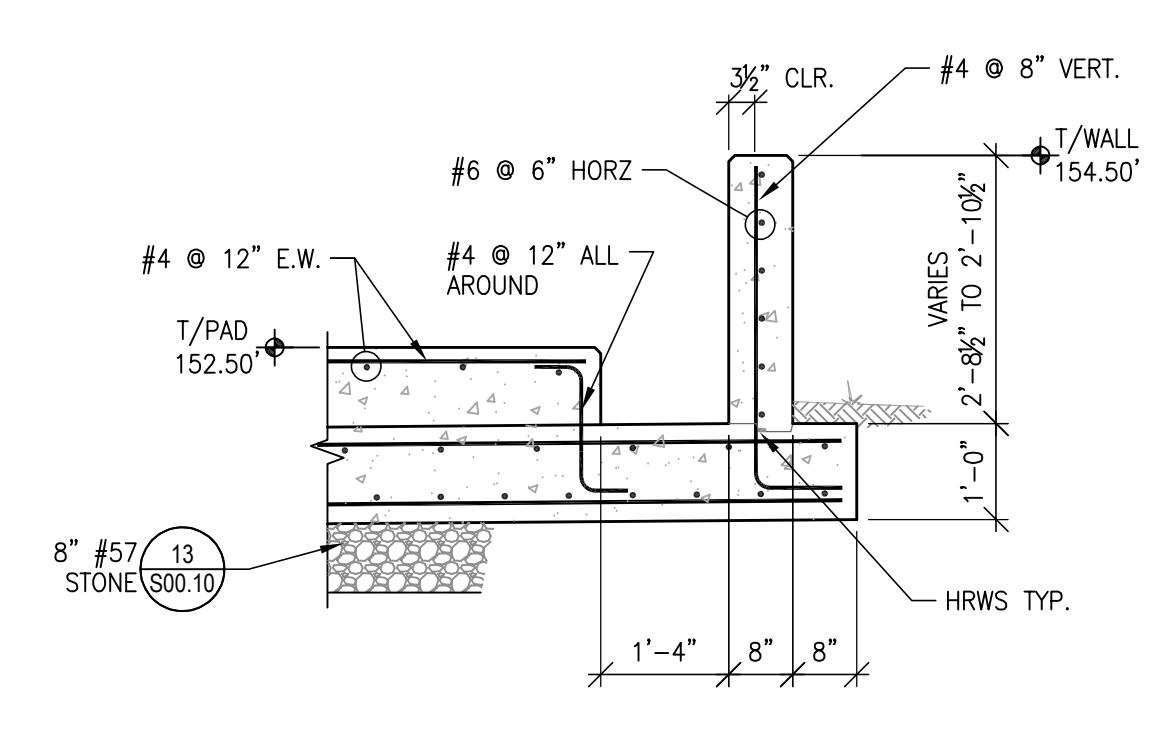
Filename: Z:\KP JOB FILES\2025-JOBS\25-2023-5838N\ETTSVILLE WTPS LIME SILOS\3-CAD DRAWINGS\YALL STREET\25-123AS0110.DWG



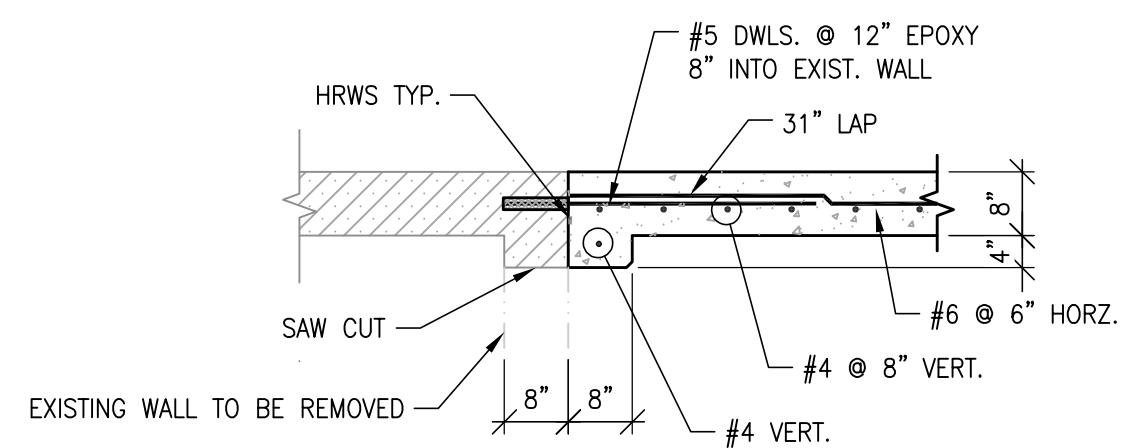
SECTION A
SCALE: 1/2" = 1'-0" S01.10



SECTION B
SCALE: 1/2" = 1'-0" S01.10



SECTION C
SCALE: 1/2" = 1'-0" S01.10



DETAIL 1
SCALE: 1/2" = 1'-0" S01.10

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced, or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not create this document. All measurements must be obtained from the stated dimensions.

PROJECT

LIME SLURRY FEED SYSTEM FOR THE LYALL STREET WATER TREATMENT PLANT
103 LYALL STREET
BENNETSVILLE, SC 29512

CLIENT

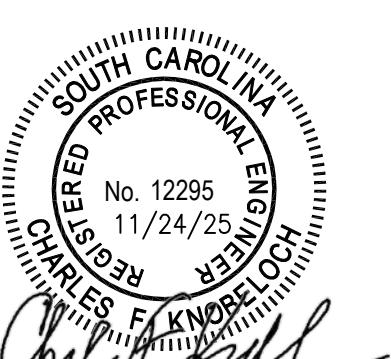
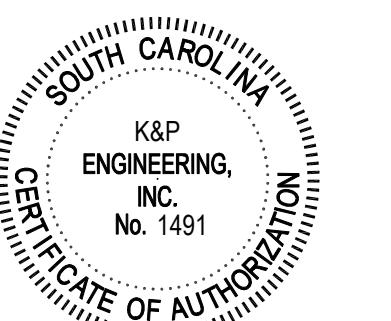
City of Bennettsville
501 EAST MAIN STREET
BENNETSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
PICKENS ST., SUITE 301
COLUMBIA, SC 29201
803.254.4400 tel
www.aecom.com

K & P ENGINEERING, INC.
478 Hwy 378 West
Lexington, SC 29072
803.808.8020 tel
www.kp-inc.com

REGISTRATION



SHEET SCALE: AS SHOWN

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT & FILE NUMBER

PROJECT NUMBER: 60721978
HUDICDBG PROJECT NUMBER: 4-CI-24-001
K&P JOB NUMBER: 25-123

SHEET TITLE

LIME SILO SECTIONS AND DETAILS

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

SHEET NUMBER

S01.11

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AGC	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
BWE	BAKED WHITE ENAMEL
C	CONTACTOR/CONDUIT/COIL
CB	CIRCUIT BREAKER
CKT, CCT	CIRCUIT
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DWG	DRAWING
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
I&C	INSTRUMENTATION & CONTROL
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LCP	LOCAL CONTROL PANEL
LP	LIGHTING PANEL
M	METER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MTR, M	MOTOR
MTD	MOUNTED
MTG	MOUNTING
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE (ANSI/NFPA-70)
NEUT, N	NEUTRAL
NF	NON FUSED
NO	NORMALLY OPEN
OL	OVERLOAD RELAY
PB	PUSHBUTTON/PULLBOX
PC	PHOTOCELL
PNL	PANEL
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE
RVSS	REDUCED VOLTAGE SOLID STATE
SB	SPLICING BOX
SEL	SELECTOR SWITCH
SOL	SOLENOID VALVE
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
XFMR	TRANSFORMER

PLAN SYMBOLS

A	LED FIXTURE - RECESSED (LETTER DENOTES TYPE)
A	LED FIXTURE - SURFACE OR SUSPENDED (LETTER DENOTES TYPE)
A	LED FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)
A	LED OR HID FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)
A	POLE MOUNTED FIXTURE (LETTER DENOTES TYPE)
	EMERGENCY BATTERY LIGHT

►	REMOTE HEAD FOR EMERGENCY BATTERY LIGHT
►	EXIT LIGHT WITH INDICATING DIRECTIONAL ARROW
§	SINGLE POLE SWITCH
§2	TWO POLE SWITCH
§3	3-WAY SWITCH
§4	4-WAY SWITCH
§MC	MOMENTARY CONTACT SWITCH - CENTER OFF
§P	SWITCH / PILOT LIGHT
DS	DOOR SWITCH
○	DUPLEX GROUNDED RECEPTACLE - 120V
○	DUPLEX GROUNDED RECEPTACLE - 120V MOUNTED 6" ABOVE COUNTER
○	DUPLEX GROUNDED RECEPTACLE FURNISHED UNDER DIVISION 11. INSTALL AND WIRED UNDER DIVISION 16
○	CONNECTION TO EQUIPMENT
○	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AND AMPERE RATING AS INDICATED
▼	TELEPHONE OUTLET, WALL MOUNT WITH 3/4" CONDUIT TO TELEPHONE TERMINAL CABINET (W - INDICATES 54" MOUNTING HEIGHT FOR PHONE) (B - INDICATES 96" MOUNTING HEIGHT FOR BELL UNLESS NOTED OTHERWISE)
□K	AUDIBLE DEVICE
□	MANUAL STARTER WITH PILOT LIGHT
☒	THREE PHASE MAGNETIC STARTER
☒	THREE PHASE COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
☒	SINGLE PHASE MAGNETIC STARTER
□30	NON-FUSED DISCONNECT SWITCH (NUMERAL INDICATES SWITCH RATING)
□60 40	FUSED DISCONNECT SWITCH - 3 POLE UNLESS OTHERWISE INDICATED (UPPER NUMERAL INDICATES SWITCH RATING) (LOWER NUMERAL INDICATES FUSE RATING)
■■■	LIGHTING PANEL
□	TRANSFORMER
■■■	POWER PANEL
□	TERMINAL CABINET (ITC - INDICATES INSTRUMENTATION) (TTC - INDICATES TELEPHONE)
○M	MOTOR
○D	DAMPER MOTOR

JUNCTION BOX

HH HANDBOLE

MH MANHOLE

GROUND ROD

GROUND TEST WELL

GROUND CONNECTION

CONDUIT STUB

CONDUIT TURNING UP OR TO OBSERVER

CONDUIT TURNING DOWN OR AWAY FROM OBSERVER

GND WIRE

DIRECT BURIAL CABLE

UOE UNDERGROUND ELECTRICAL DUCT,
CONCRETE ENCASED.

SUPPORT STAND. SEE DETAIL

ONE-LINE SYMBOLS

15 (OR) CL 600
M (OR) CL 500
MOLDED CASE CIRCUIT BREAKER
(UPPER NUMERAL INDICATES FRAME SIZE)
(LOWER NUMERAL INDICATES TRIP SETTING)
(CL - INDICATES CURRENT LIMITING CIRCUIT BREAKER)
(M - INDICATES MOTOR CIRCUIT PROTECTOR)

300 5 3
CURRENT TRANSFORMER
(300 - INDICATES TURNS RATIO)
(3 - INDICATES QUANTITY)

3 1
POTENTIAL TRANSFORMER
(4 1 - INDICATES TURNS RATIO)
(3 - INDICATES QUANTITY)

52
DRAWOUT CIRCUIT BREAKER

FVNR 2a 1b 2
MAGNETIC STARTER AND MOLDED CASE CIRCUIT BREAKER
(FVNR - INDICATES FULL VOLTAGE NON-REVERSING)
(RVNR - INDICATES REDUCED VOLTAGE NON-REVERSING)
(2SPD - INDICATES TWO SPEED)
(AUXILIARY CONTACTS - (2a TWO N.O.)(1b ONE N.C.)
(NUMERAL INDICATES NEMA SIZE)

POWER FACTOR CORRECTION CAPACITOR
SIZE AS INDICATED

TRANSFORMER

COMBINATION MAGNETIC STARTER WITH
MOLDED CASE CIRCUIT BREAKER

FVNR 2a 1b 2

GROUND

75 MOTOR
(NUMERAL INDICATES HORSEPOWER)

Y GENERATOR

Y THREE PHASE WYE CONNECTION

△ THREE PHASE DELTA CONNECTION

AS AMMETER SELECTOR SWITCH

VS VOLTMETER SELECTOR SWITCH

A AMMETER

V VOLTMETER

HOA CONTROL STATION
SOME ABBREVIATIONS THAT MAY BE USED:

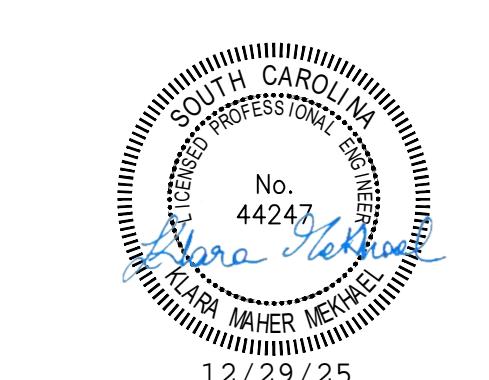
AM AUTO-MANUAL
CAM COMPUTER-AUTO-MANUAL
CM COMPUTER-MANUAL
DS DOOR SWITCH
ETM ELAPSED TIME METER
FR FORWARD-REVERSE
HLO HIGH-LOW-OFF SWITCH
HOA HAND-OFF-AUTO
HOR HAND-OFF-REMOTE
LOS LOCK-OUT-STOP
LR LOCAL-REMOTE
MA MANUAL-REMOTE
OC OPEN-CLOSED
OCA OPEN-CLOSED-AUTO
OCS OPEN-CLOSED-STOP
OO ON-OFF MAINTAINED CONTACT
OOA ON-OFF-AUTO
PB PUSHBUTTON
SF SLOWER-FASTER
SS START-STOP MOMENTARY CONTACT
USG ULTRA SONIC GENERATOR
ZS LIMIT SWITCH

PROJECT
LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT
103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT
CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION**MOTOR CONTROL CENTER**

10MCC-1
BUILDING NO.
MCC NO.

10LP1:4
BUILDING NO.
LIGHTING OR POWER
PANEL AS INDICATED
PANEL NO.
CIRCUIT NO.

NOTE:
1. THIS LIST OF ABBREVIATIONS SHOWN IS
A STANDARD LIST. NOT ALL ABBREVIATIONS
AND SYMBOLS ARE USED IN THESE CONTRACT
DRAWINGS.

KEY PLAN
SHEET SCALE: AS SHOWN
PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

PROJECT & FILE NUMBER
SHEET TITLE
ELECTRICAL LEGEND
AND ABBREVIATIONS

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION

SHEET NUMBER
E00.01

LIME SLURRY FEED SYSTEM FOR THE LYALL STREET WATER TREATMENT PLANT

103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



GENERAL NOTES:

1. ALL ELECTRICAL SERVICE REQUIREMENTS TO BE COORDINATED WITH LOCAL ELECTRIC UTILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES ASSOCIATED WITH PROVIDING NEW OR UPGRADED ELECTRIC SERVICE TO THE SITE. THE WORK RELATED TO THE ELECTRIC SERVICE UPGRADE IS ESTIMATED TO BE \$14,540.
2. PLAN SHOWS PROPOSED ROUTING FOR DUCTBANKS AND PROPOSED LOCATIONS FOR HANDHOLES. REFER TO CIVIL PLANS FOR SITE UTILITIES.
3. PLAN INDICATES CONDUIT COUNTS FOR POWER. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM FOR CONDUCTORS SIZES. SEE SHEET E01.30.
4. CONCRETE ENCASE ALL DUCT BANKS UNLESS OTHERWISE NOTES.
5. PROVIDE A PULL CORD IN EACH SPARE CONDUIT.

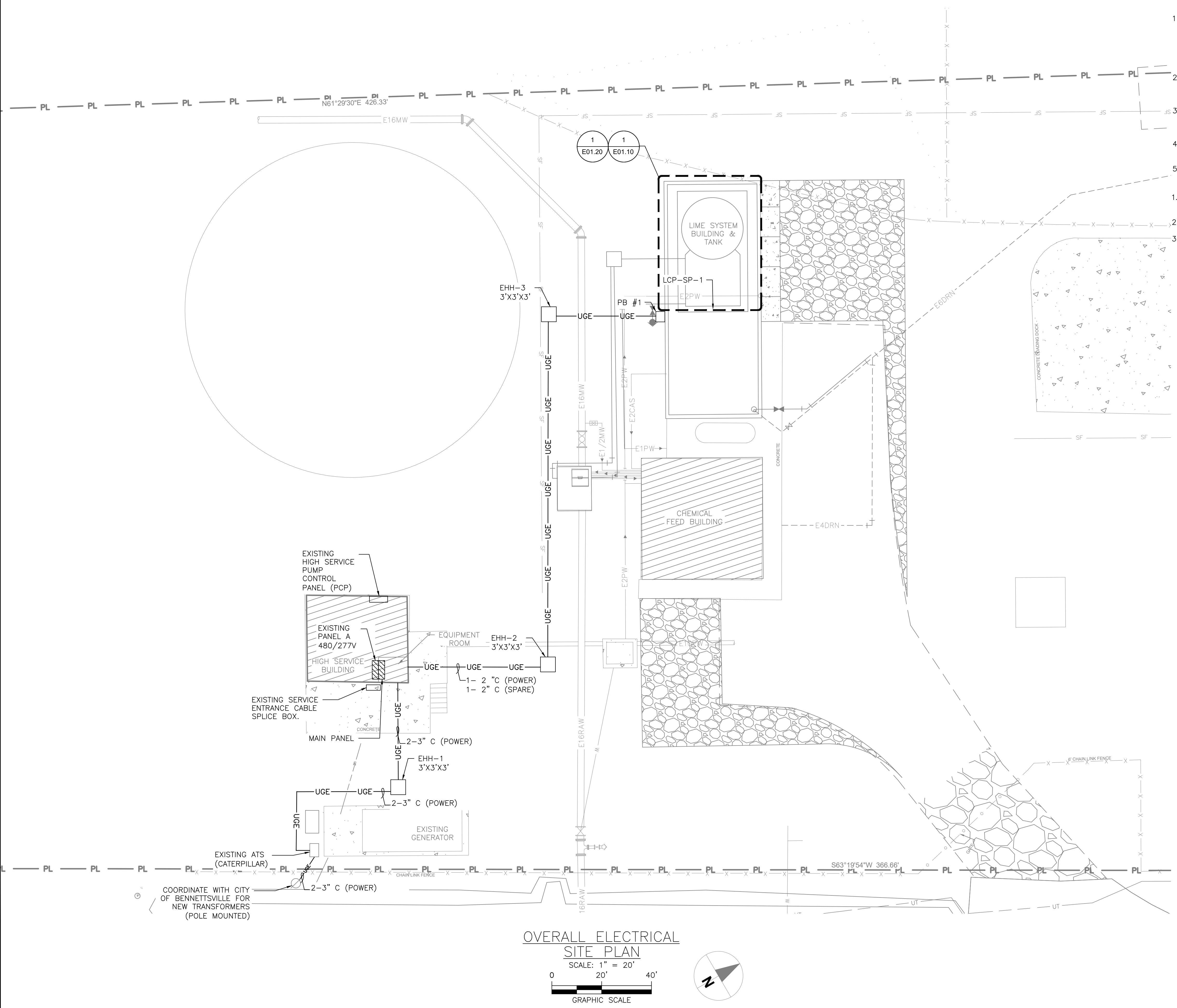
ELECTRICAL KEY NOTES:

1. ROUTE RACEWAYS OVER CONTAINMENT WALL. ALL EXPOSED CONDUITS SHALL BE PVC COATED RIGID STEEL. ALL SUPPORTING MATERIAL SHALL BE STAINLESS STEEL.
2. REMOVE EXISTING SPLICE BOX CABLES AND RACEWAYS. PLUG CONDUIT OPENINGS.
3. DEMO EXISTING FUSED DISCONNECT SWITCH. PLACE NEW MAIN PANEL AT THE SAME LOCATION. REFER TO ONE-LINE DIAGRAM ON SHEET E01.30.

ANSI D 22" x 34"

Project Management Initials: Project Eng.:** fill in
W/G

last saved by: MEKHAELK(2025-12-24)
File name: C:\ISERS\MEKHAEL\KAECON



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

PROJECT & FILE NUMBER

PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

SHEET TITLE

OVERALL ELECTRICAL SITE PLAN

SHEET NUMBER

£01.00

BID DOCUMENTS

SE DOCUMENTS ARE FOR THE
OSE OF SOLICITATION OF BIDS
ND ARE NOT FOR USE FOR
CONSTRUCTION

SHEET NUMBER

£01.00

PROJECT

LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT103 LYALL STREET
BENNETTSVILLE, SC 29512

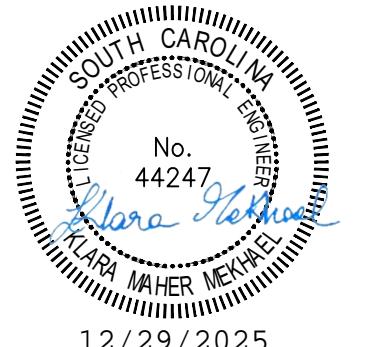
CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ISSUE/REVISION

KEY PLAN

SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER

PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

SHEET TITLE

ELECTRICAL
DEMOLITION PLAN

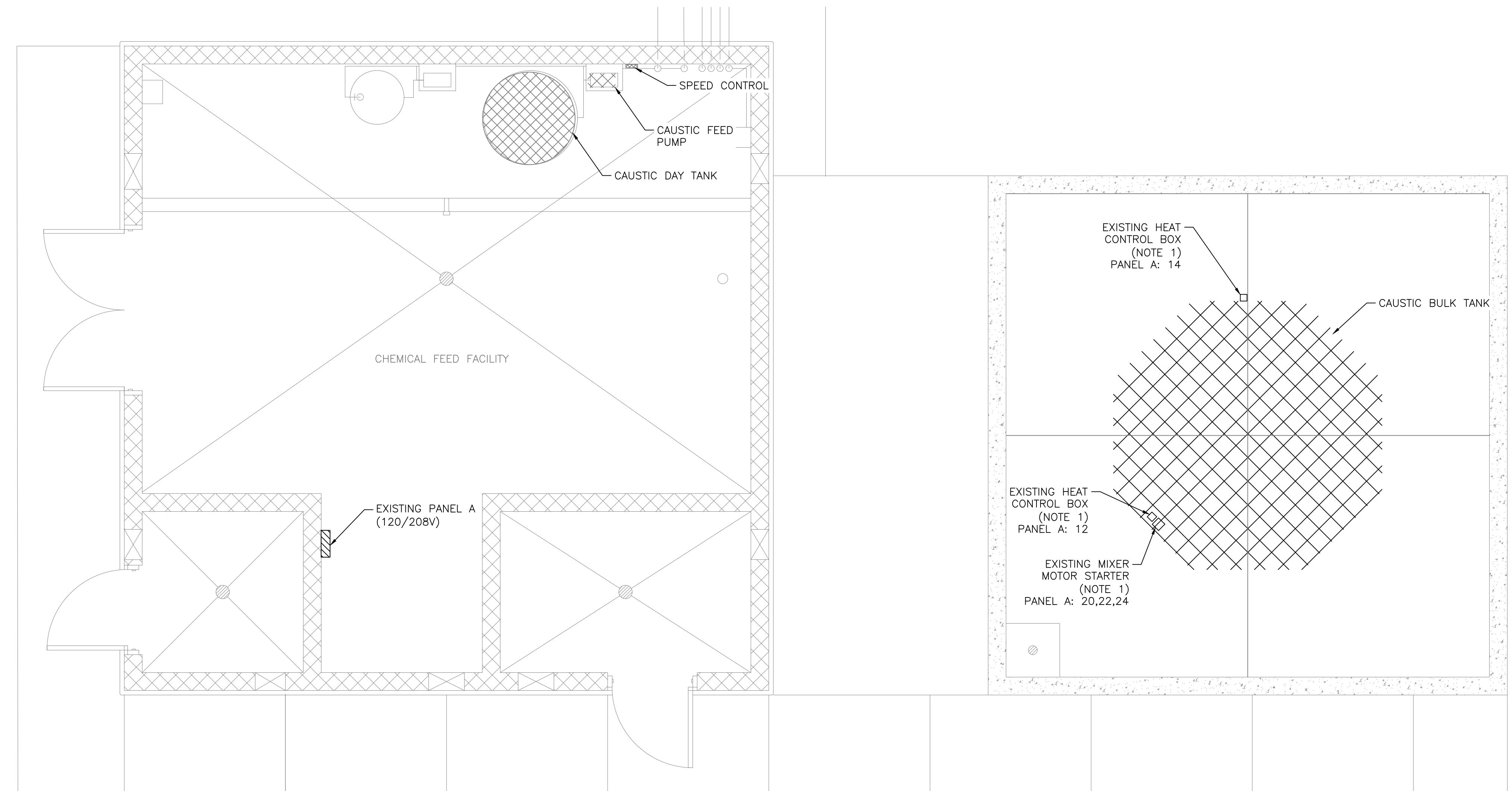
SHEET NUMBER

E01.10

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

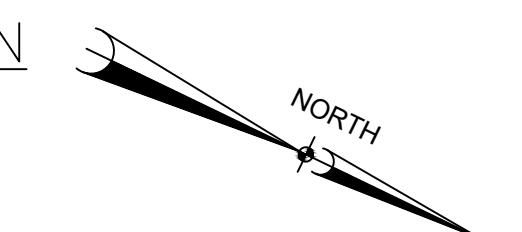
NOTES:

1. COORDINATE WITH OWNER FOR REMOVAL OF CAUSTIC BULK TANK, MIXER, HEAT TRACE CONTROLLER, CAUSTIC DAY TANK, CAUSTIC METERING PUMP AND ALL ASSOCIATED ELECTRICAL DEVICES AND CONDUITS BACK TO THE ORIGINATING PANEL OR JUNCTION BOX IN THE CHEMICAL BUILDING. PLUG IN USED OPENINGS. TAG CIRCUIT BREAKERS SPARE.



DEMOLITION PLAN

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



BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION

LIME SLURRY FEED SYSTEM FOR THE LYALL STREET WATER TREATMENT PLANT

103 LYALL STREET
BENNETTSVILLE, SC 29512

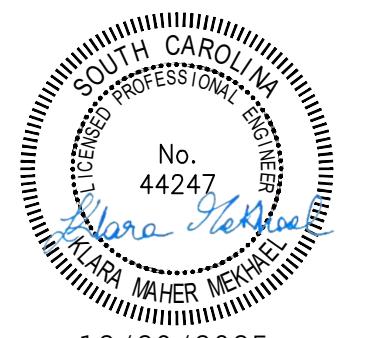
CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ISSUE/REVISION

KEY PLAN

SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER

PROJECT & FILE NUMBER

SHEET TITLE

LIME SLURRY CONTAINMENT ELECTRICAL PLAN

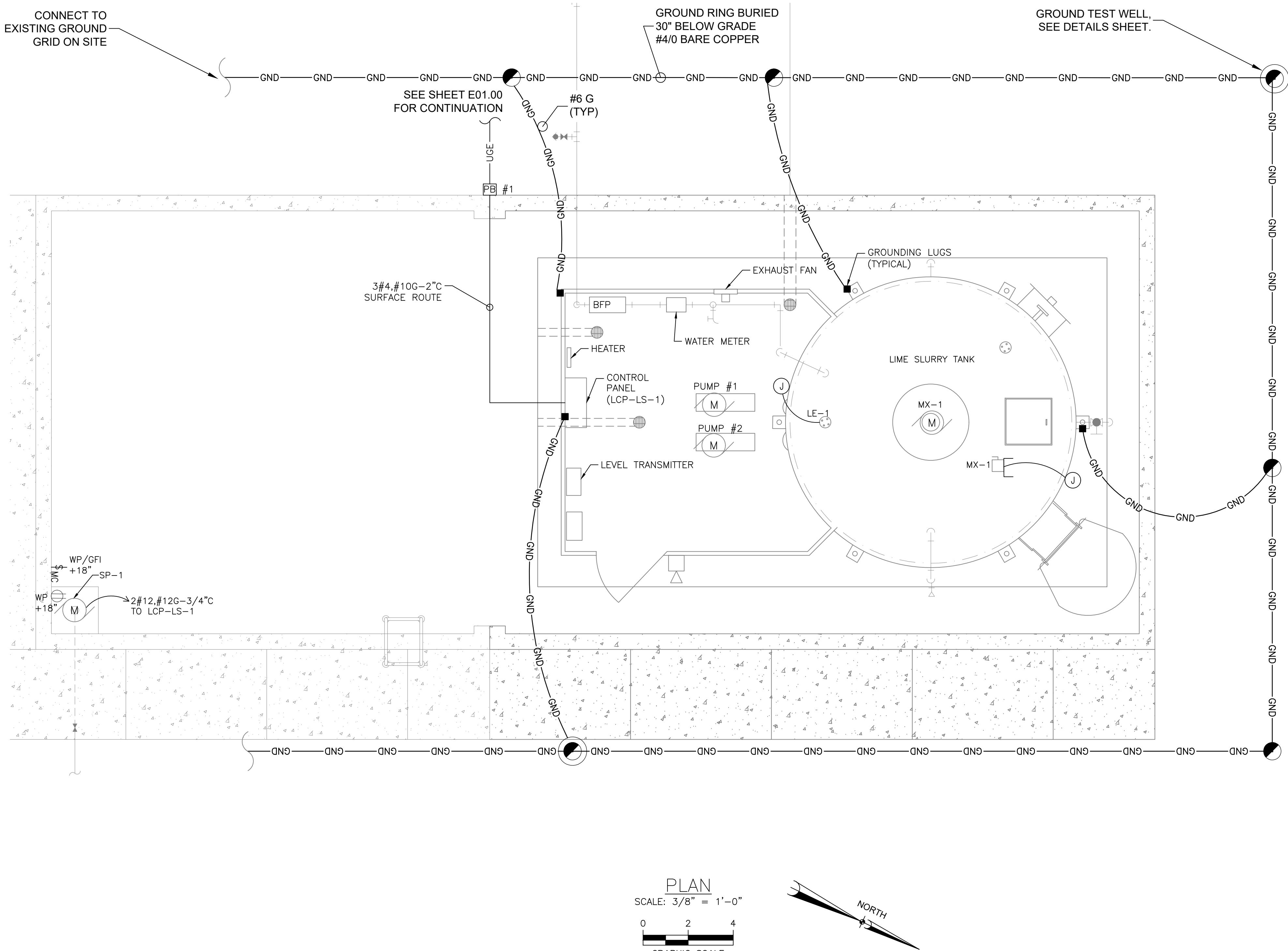
SHEET NUMBER

E01 20

GENERAL NOTES:

1. COORDINATE WITH LIQUID LIME SYSTEM VENDOR CABLING REQUIREMENTS FOR PROCESS EQUIPMENT AND INSTRUMENTS, AND HVAC EQUIPMENT.
2. INTERIOR LIGHTING, SWITCHES AND RECEPTACLES ARE ALL PREWIRED AND WILL BE FED THROUGH THE SYSTEM CONTROL PANEL.
3. THE EQUIPMENT ARRANGEMENT IS DEPICTED IN A GENERAL ARRANGEMENT. ALL ELECTRICAL CIRCUITING AND CABLING IS PROVIDED BY THE EQUIPMENT VENDOR. COORDINATE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 11245.
4. CONTRACTOR TO PROVIDE TEMPORARY POWER TO MIXER HEATER AT INSTALLATION IN CASE POWER TO CONTROL PANEL WAS NOT YET AVAILABLE AT THE TIME THE MIXER IS DELIVERED TO THE SITE.

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.



BID DOCUMENTS

**THESE DOCUMENTS ARE FOR THE
PURPOSE OF SOLICITATION OF BIDS
AND ARE NOT FOR USE FOR
CONSTRUCTION**

SHEET NUMBER
E01 20

PROJECT

LIME SLURRY FEED
SYSTEM FOR THE
LYALL STREET
WATER TREATMENT
PLANT103 LYALL STREET
BENNETTSVILLE, SC 29512

CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ANSI D 22" x 34"

Approved: ** fill in **

Checked: ** fill in **

Drafter: ** fill in **

Designer: ** fill in **

Project Eng.: ** fill in **

Project Management Initials: Project Eng.: ** fill in **

DWG

SHEET DWG

60753190-E SITE DWG

CADD SHEET

TS

60753190

CADD

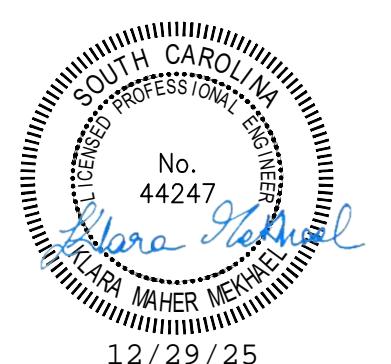
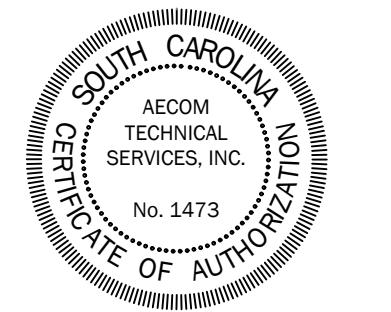
CLIENT

CITY OF BENNETTSVILLE
501 EAST MAIN STREET
BENNETTSVILLE, SC 29512
843.479.9001

CONSULTANT

AECOM
425 SOUTH CASHUA DRIVE
FLORENCE, SC 29501
843.665.9166
www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

SHEET SCALE: AS SHOWN

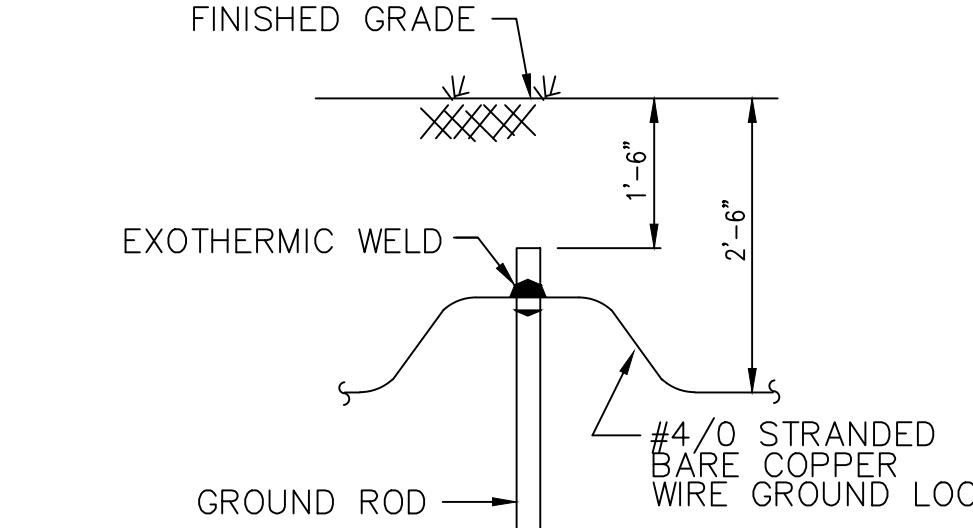
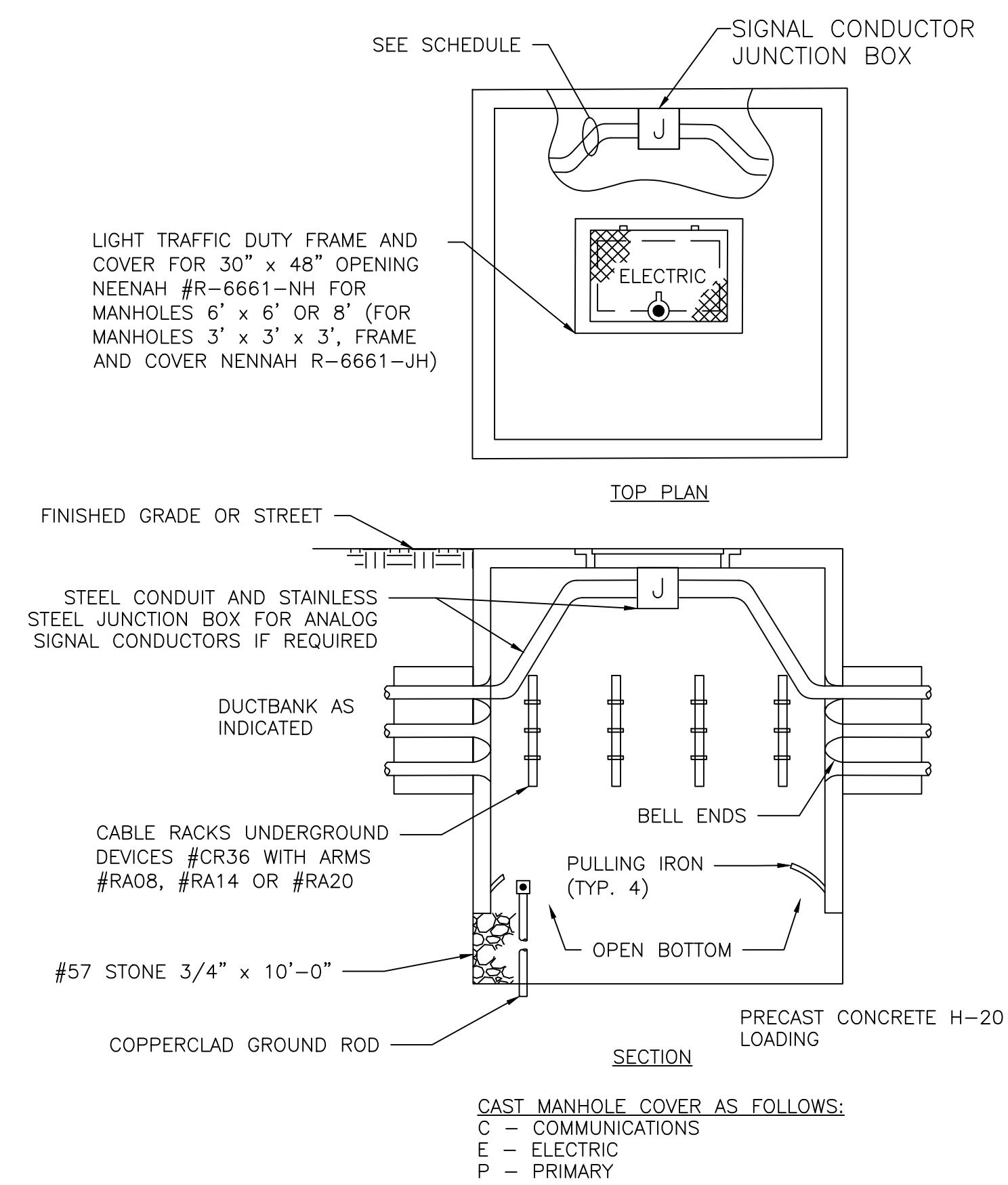
PROJECT & FILE NUMBER

PROJECT NUMBER: 60753190
HUD/CDBG PROJECT NUMBER: 4-CI-24-001

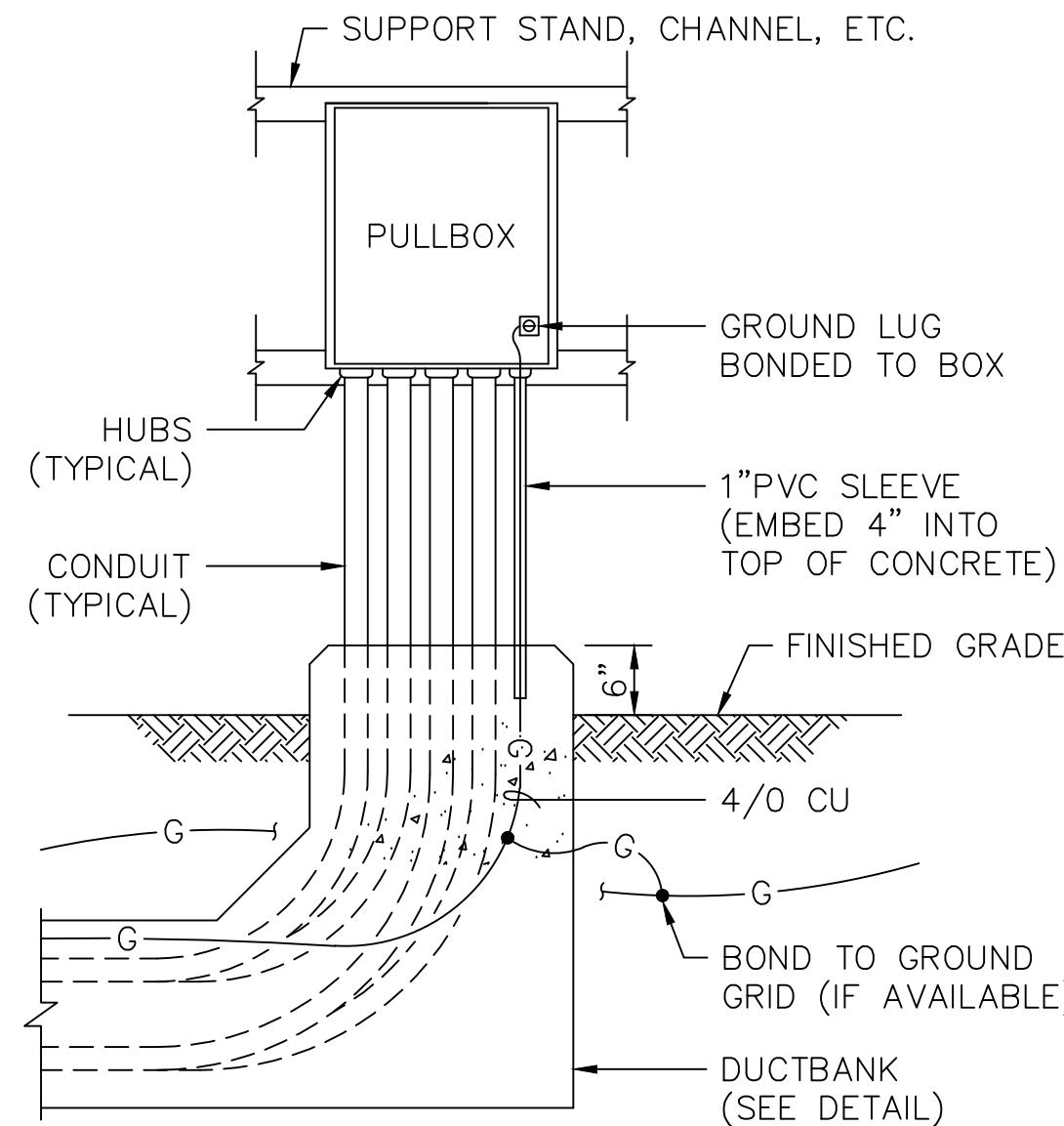
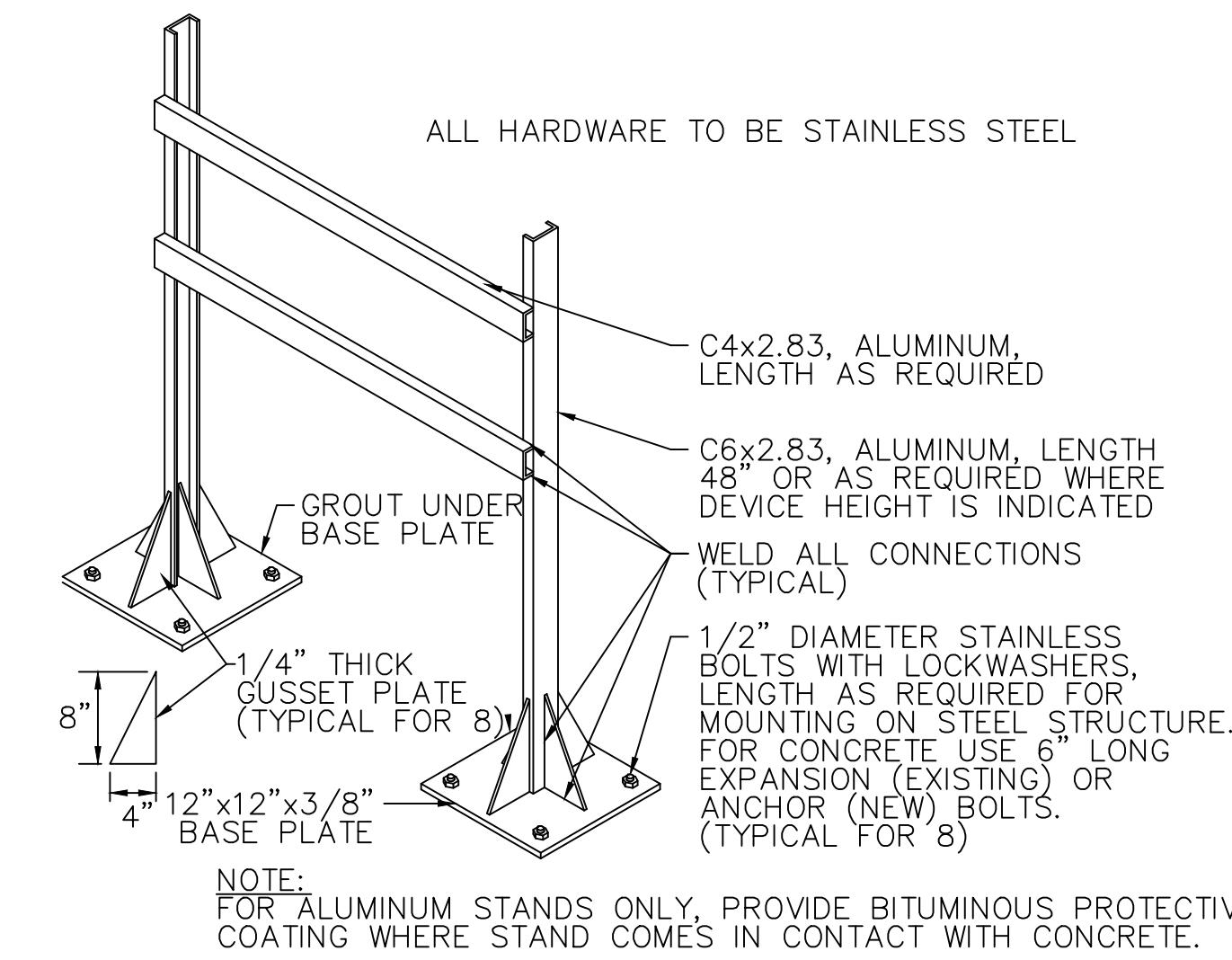
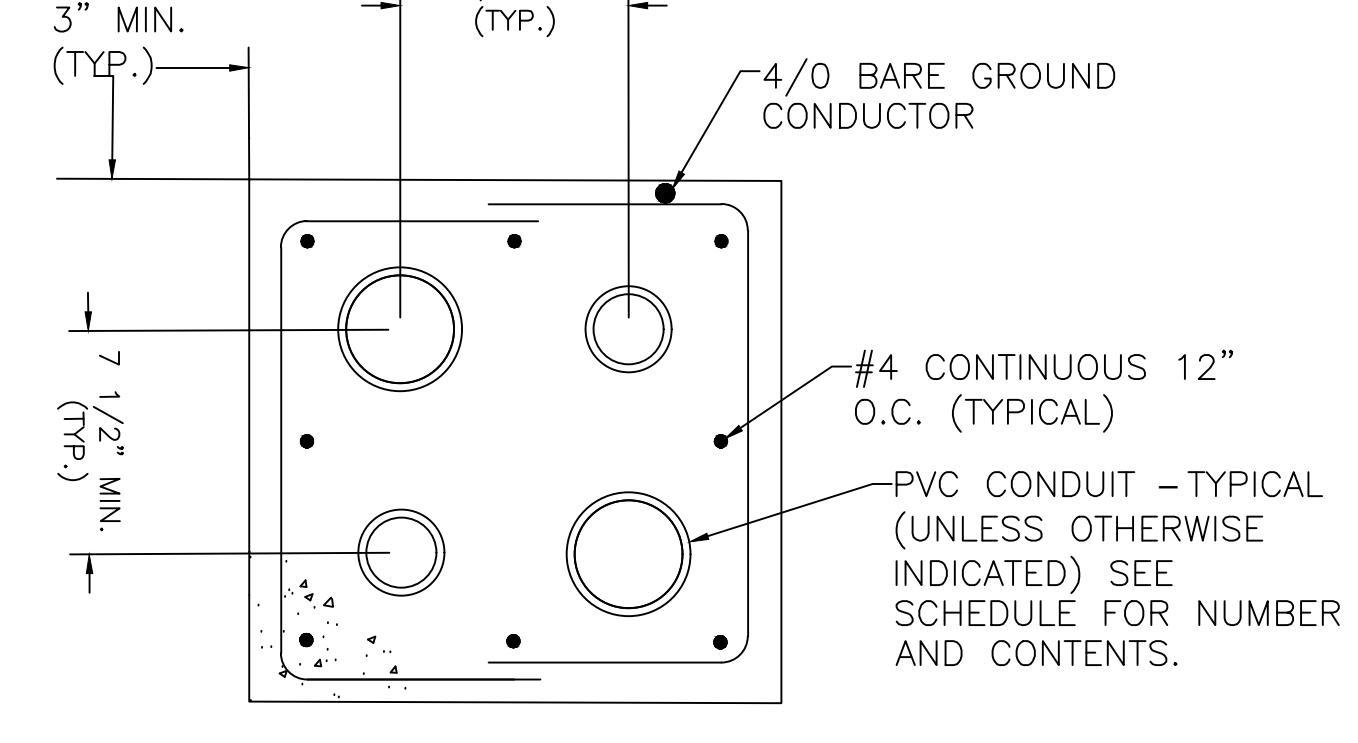
SHEET TITLE

ELECTRICAL DETAILS

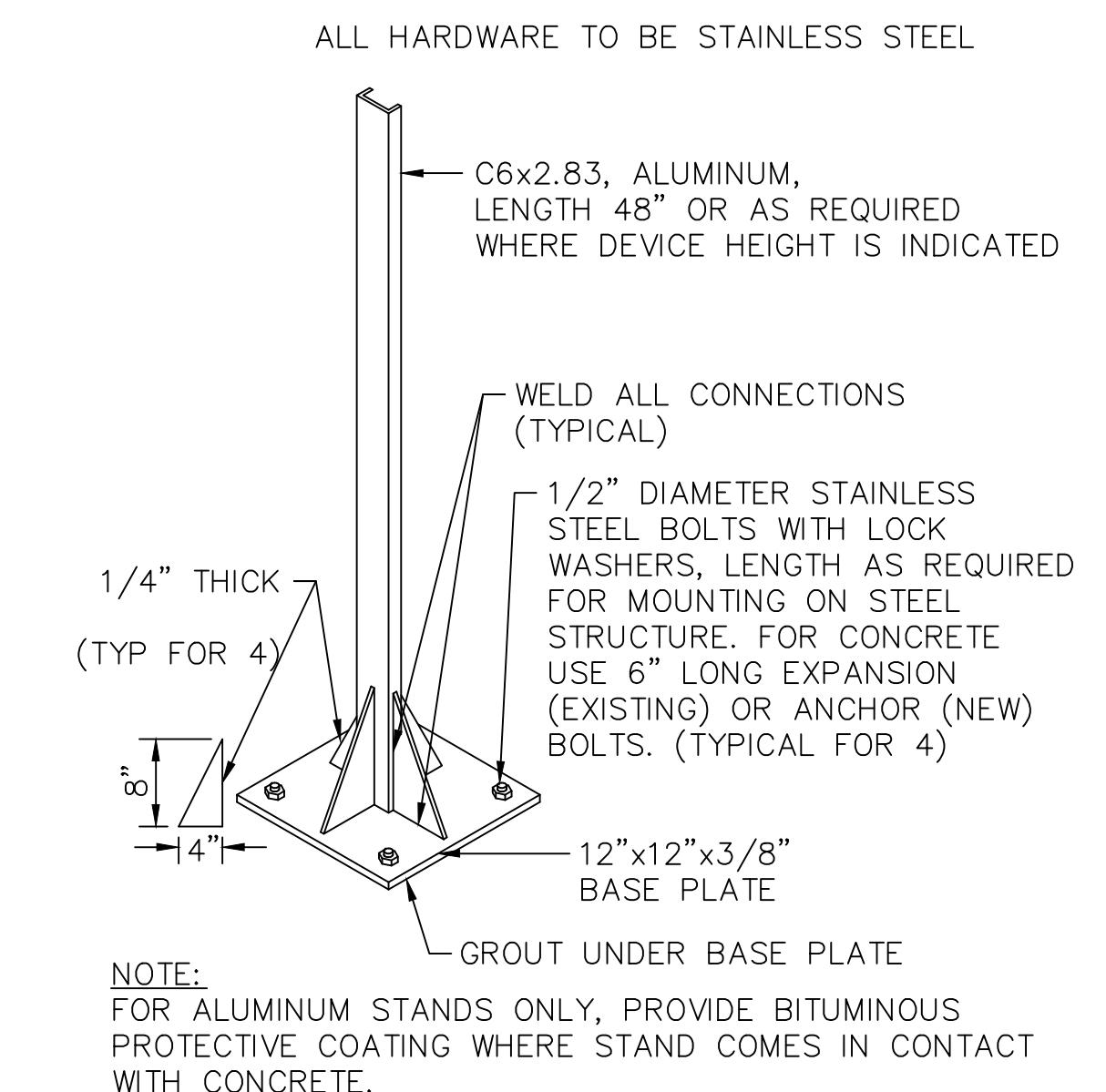
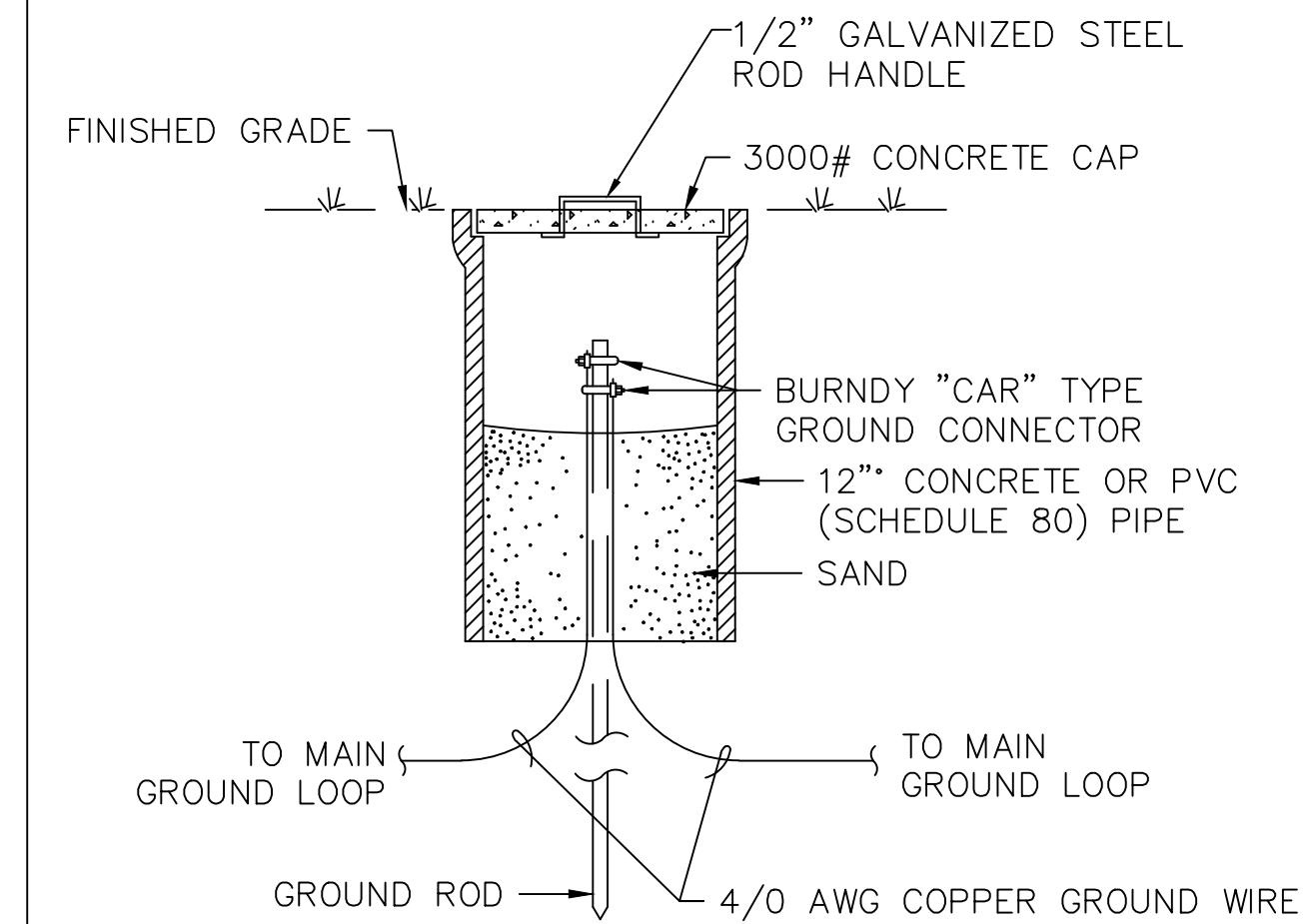
This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

TYPICAL EXOTHERMIC WELD CABLE
TO ROD CONNECTIONDETAIL
SCALE: NONE

ELECTRICAL MANHOLE/HANDHOLE

DETAIL
SCALE: NONEDUCTBANK TERMINATION AND
PULLBOX GROUNDINGDETAIL
SCALE: NONEDUAL SUPPORT SYSTEM
DETAIL
SCALE: NONE

TYPICAL DUCTBANK

DETAIL
SCALE: NONESINGLE SUPPORT STAND
DETAIL
SCALE: NONE

GROUND TEST WELL

DETAIL
SCALE: NONE
BID DOCUMENTS
 THESE DOCUMENTS ARE FOR THE
 PURPOSE OF SOLICITATION OF BIDS
 AND ARE NOT FOR USE FOR
 CONSTRUCTION
SHEET NUMBER
E01.40