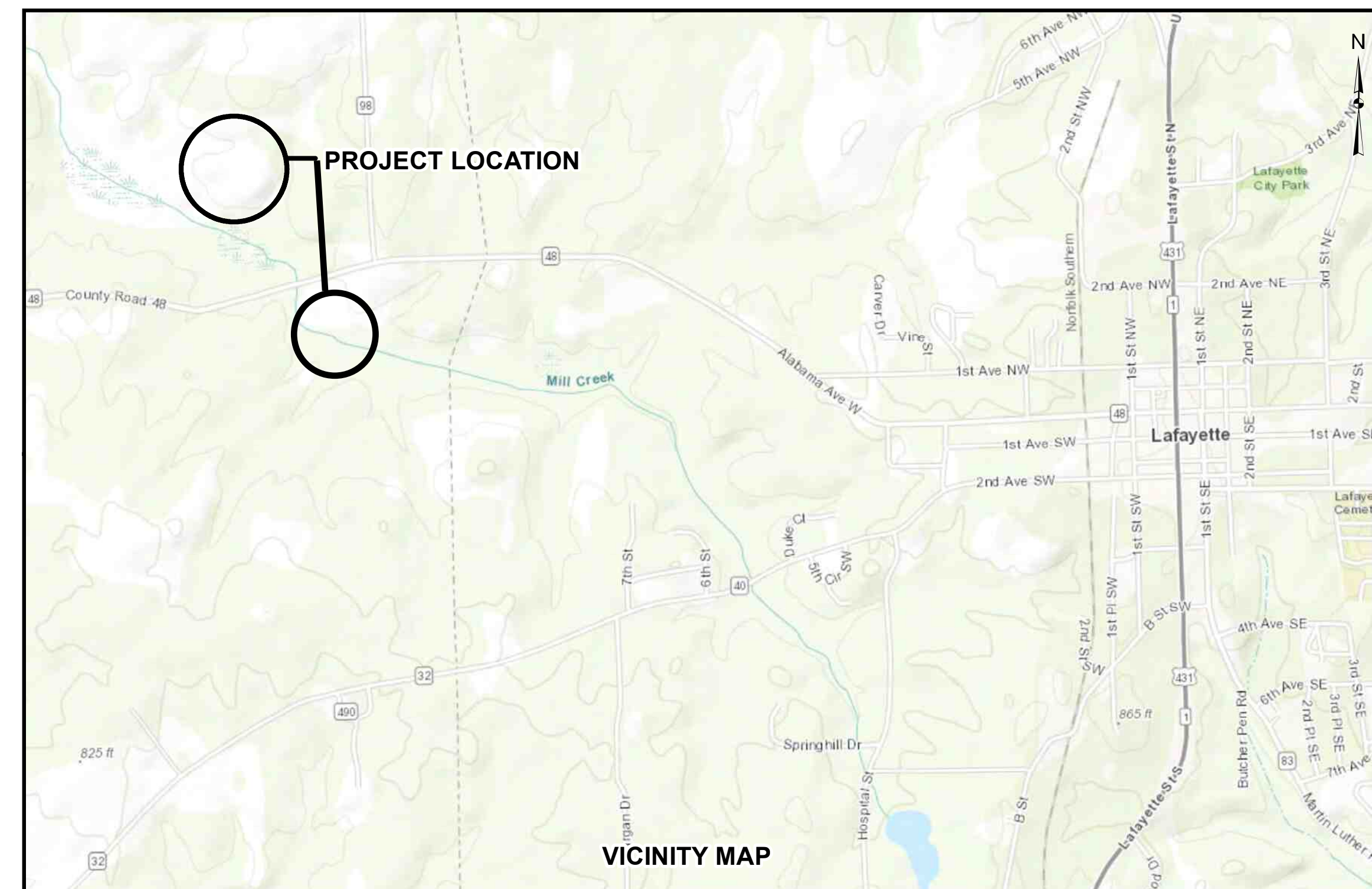


**THE CITY OF
LAFAYETTE, ALABAMA
WASTEWATER TREATMENT PLANT IMPROVEMENTS
CWSRF PROJECT NO. CSO10403-05
CONTRACT NO. 2
CONTRACT NO. LF24 144**

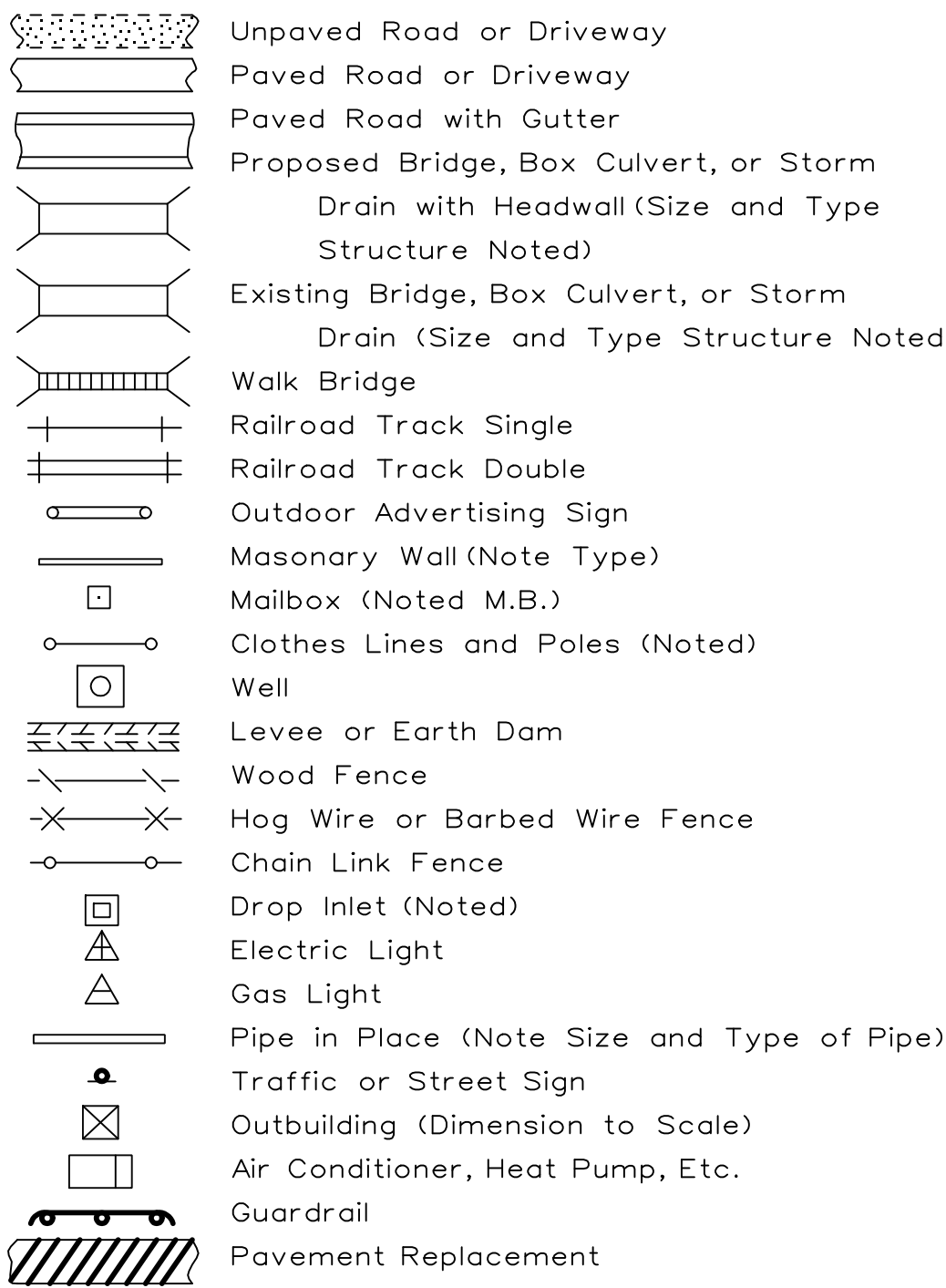


2025

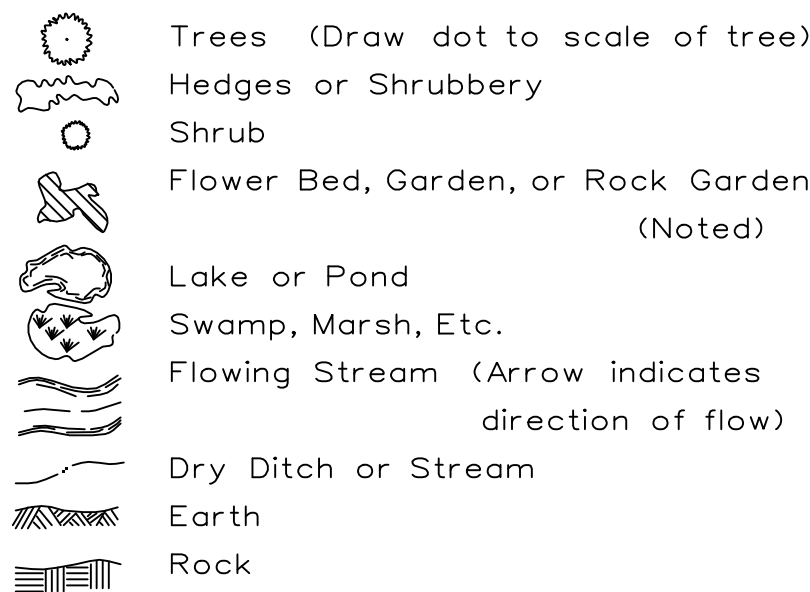


ENGINEER
UTILITY ENGINEERING CONSULTANTS, LLC.
130 SOUTHCREST DRIVE
SUITE 100
HOMWOOD, ALABAMA 35209
PHONE : (205) 951-3838

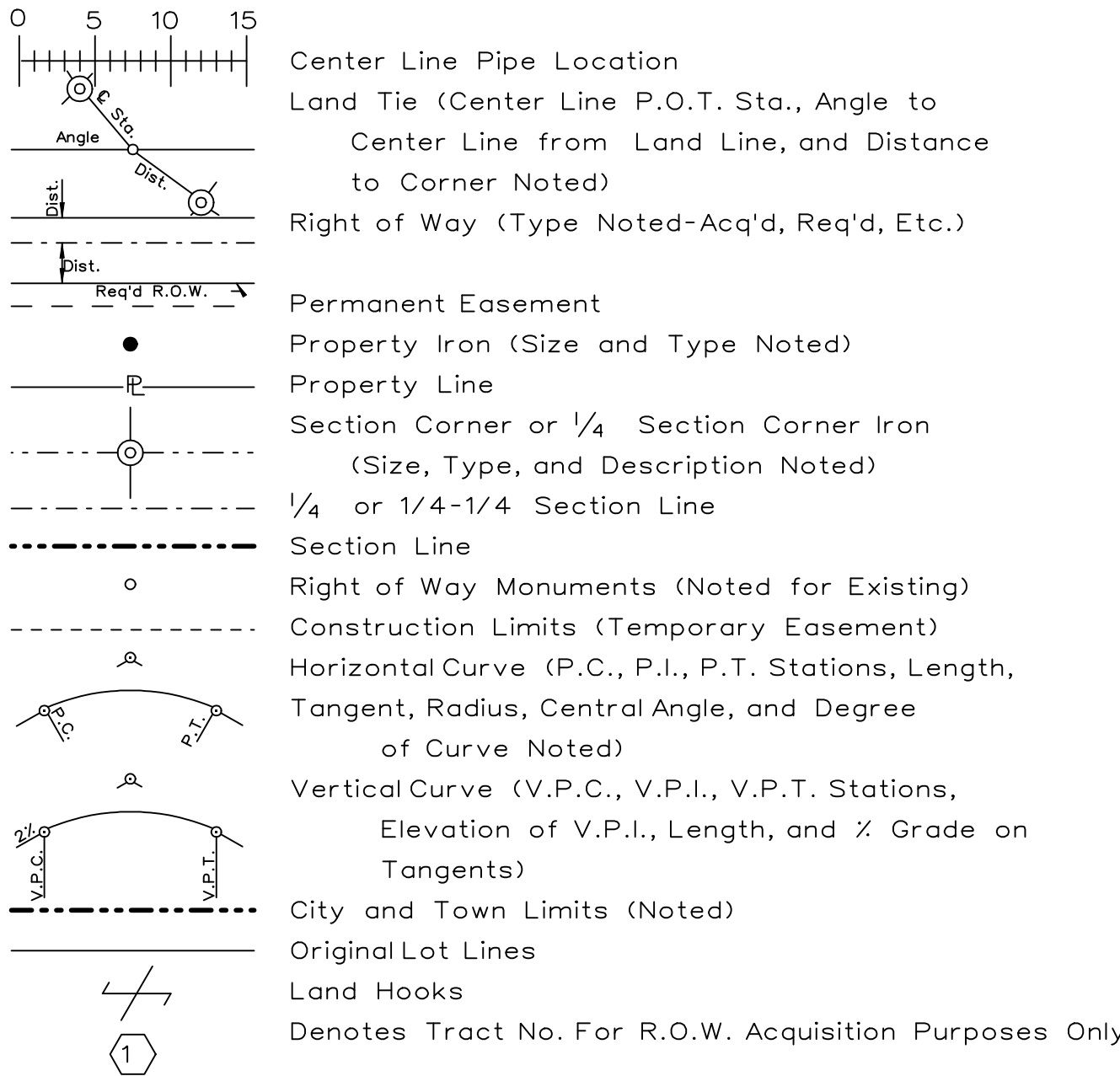
STRUCTURES



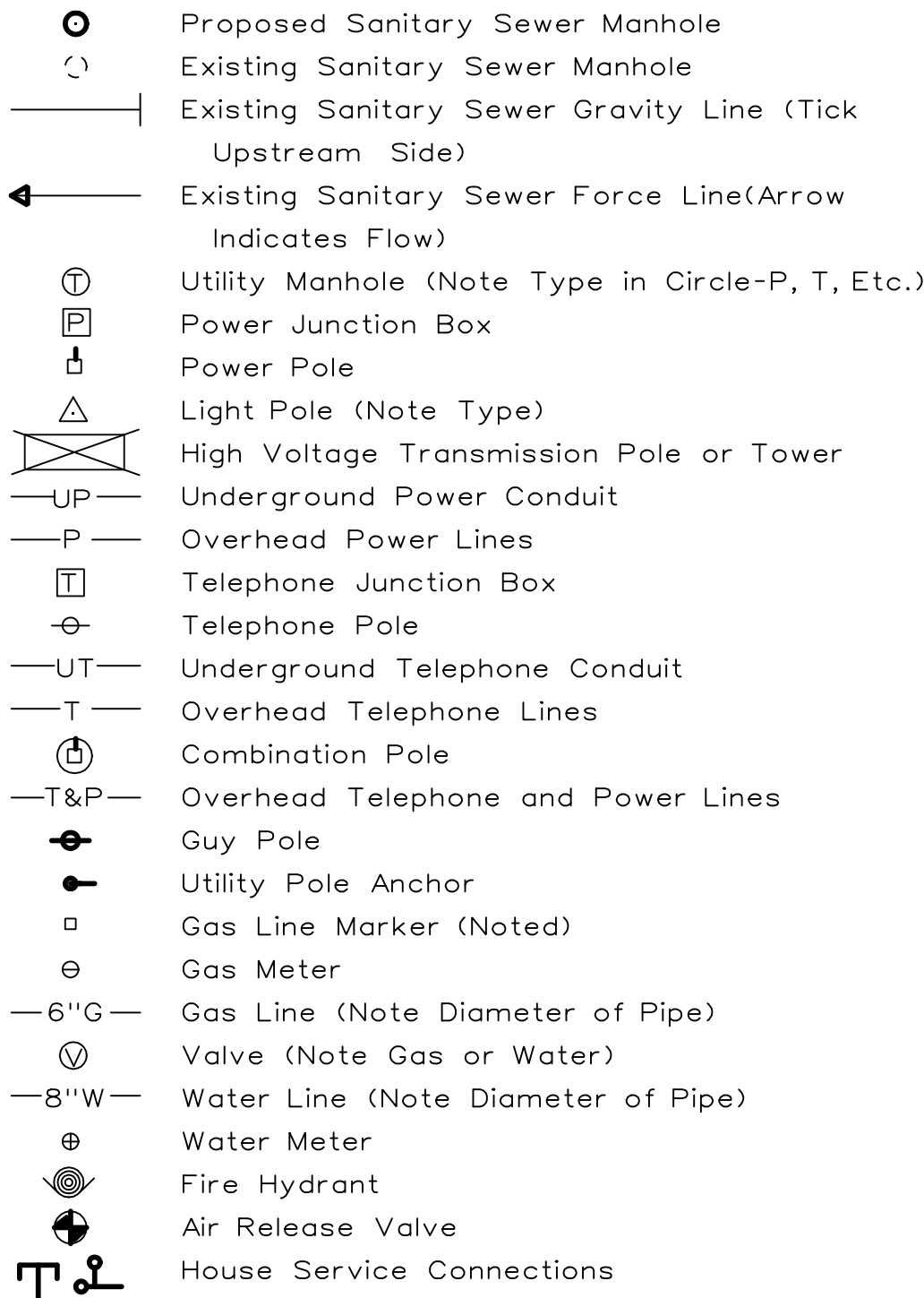
NATURAL



SURVEY



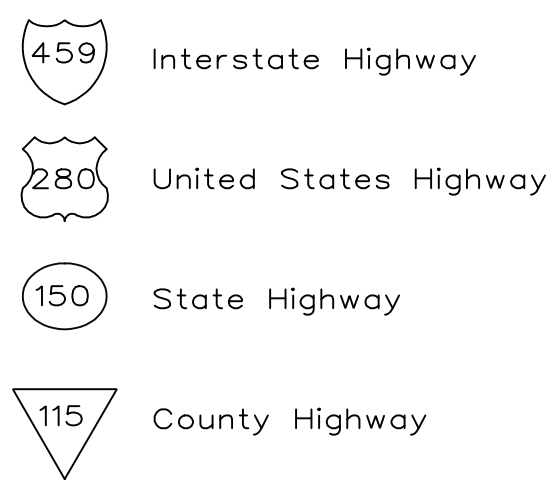
UTILITIES



ABBREVIATIONS

Acquired	Acq'd	Linear Feet	L.F.
Acre	Ac.	Point on Curve	P.O.C.
Bench Mark	B.M.	Point of Curve	P.C.
Bituminous Coated		Point of Intersection	P.I.
Corrugated Metal Pipe	B.C.C.M.P.	Point of Tangent	P.T.
Brick Residence	Br. Res.	Point on Tangent	P.O.T.
Building	Bldg.	Property Line	PL
Carrying Capacity	C.C.	Railroad	R.R.
Cast Iron Pipe	C.I.P.	Range	R.
Center Line	CL	Right of Way	R.O.W.
Concrete	Conc.	Required	Req'd.
Corner	Cor.	Reinforced Concrete Pipe	R.C.P.
Cubic Yard	C.Y.	Sanitary Sewer	San. Sew.
Curb and Gutter	C&G	Section	Sec.
Design Flow	D.F.	Shoulder	Shldr.
Distance	Dist.	Side Drain	S.D.
Double	Dbl.	Square Yard	S.Y.
Drainage Area	D.A.	Station	Sta.
Ductile Iron	D.I.	Storm Sewer	Stm. Sew.
Ductile Iron Pipe	D.I.P.	Street	St.
Easement	Esmt.	Tangent to Curve	Tan. to C.
Elevation	El.	Township	T.
Flow Line	F.L.	Valley Gutter	V.G.
Frame Residence	Fr. Res.	Vertical	Vert.
Gallons Per Minute	G.P.M.	Vertical Point of Curve	V.P.C.
Gas Meter	G.M.	Vertical Point of Intersection	V.P.I.
Gas Valve	G.V.	Vertical Point of Tangent	V.P.T.
Headwall	Hdwl.	Vitrified Clay Pipe	V.C.P.
High Water	H.W.	Water Meter	W.M.
Horizontal	Horiz.	Water Valve	W.V.
Junction	Jct.	Wing Wall	W.W.
Junction Box	Jct. Box	Yard	Yd.

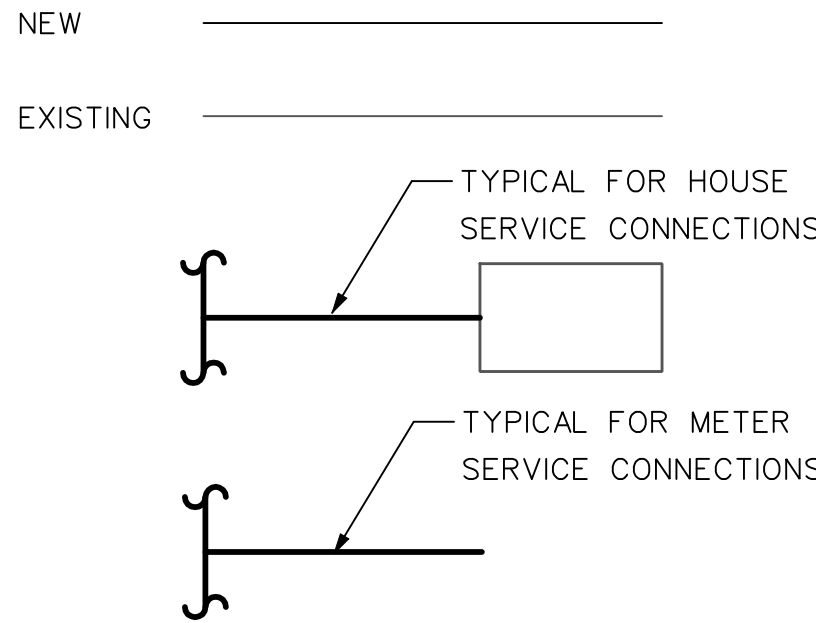
MISCELLANEOUS



PIPE FITTING SYMBOLS

(A) 90° ELBOW	(L) SIDE OUTLET TEE
(B) 90° BASE ELBOW	(M) WYE
(C) 90° LONG RADIUS ELBOW	(N) CONCENTRIC REDUCER
(D) 90° REDUCING ELBOW	(O) ECCENTRIC REDUCER
(E) 45° ELBOW	(P) BLIND FLANGE
(F) 22.1/2° ELBOW	(Q) MECHANICAL JOINT PLUG
(G) 11.1/4° ELBOW	(R) VICTAULIC COUPLING
(H) TEE	(S) MERCER EXPANSION JOINT
(J) CROSS	(T) FLANGED COUPLING ADAPTER w/ THRUST TIES
(K) 90° SIDE OUTLET ELBOW	(U) GROOVED END IPS PIPE
	(V) RETAINER GLANDS
	(W) FLARE 90° ELBOW
	(X) FLARE CASTINGS
	(WF) WALL PIPE
	(FP) FLOOR PIPE
	(WS) WALL SLEEVE
	(FS) FLOOR SLEEVE

TYPICAL LINE DETAILS



CONTRACTOR NOTE:

THE TYPE, SIZE, LOCATION AND DEPTH OF ALL PUBLIC UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION. LOCATIONS MAY BE ASCERTAINED BY CONTACTING ALABAMA LINE LOCATION CENTER AT 1-800-292-8525. THE LOCATIONS OF HOUSE SERVICES FOR UTILITIES ARE NOT SHOWN, UNLESS NOTED OTHERWISE.

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of

LAFAYETTE, ALABAMA

Chambers County, Alabama

MILL CREEK WASTEWATER TREATMENT PLANT

CWSRF PROJECT NO.CSG10403-05

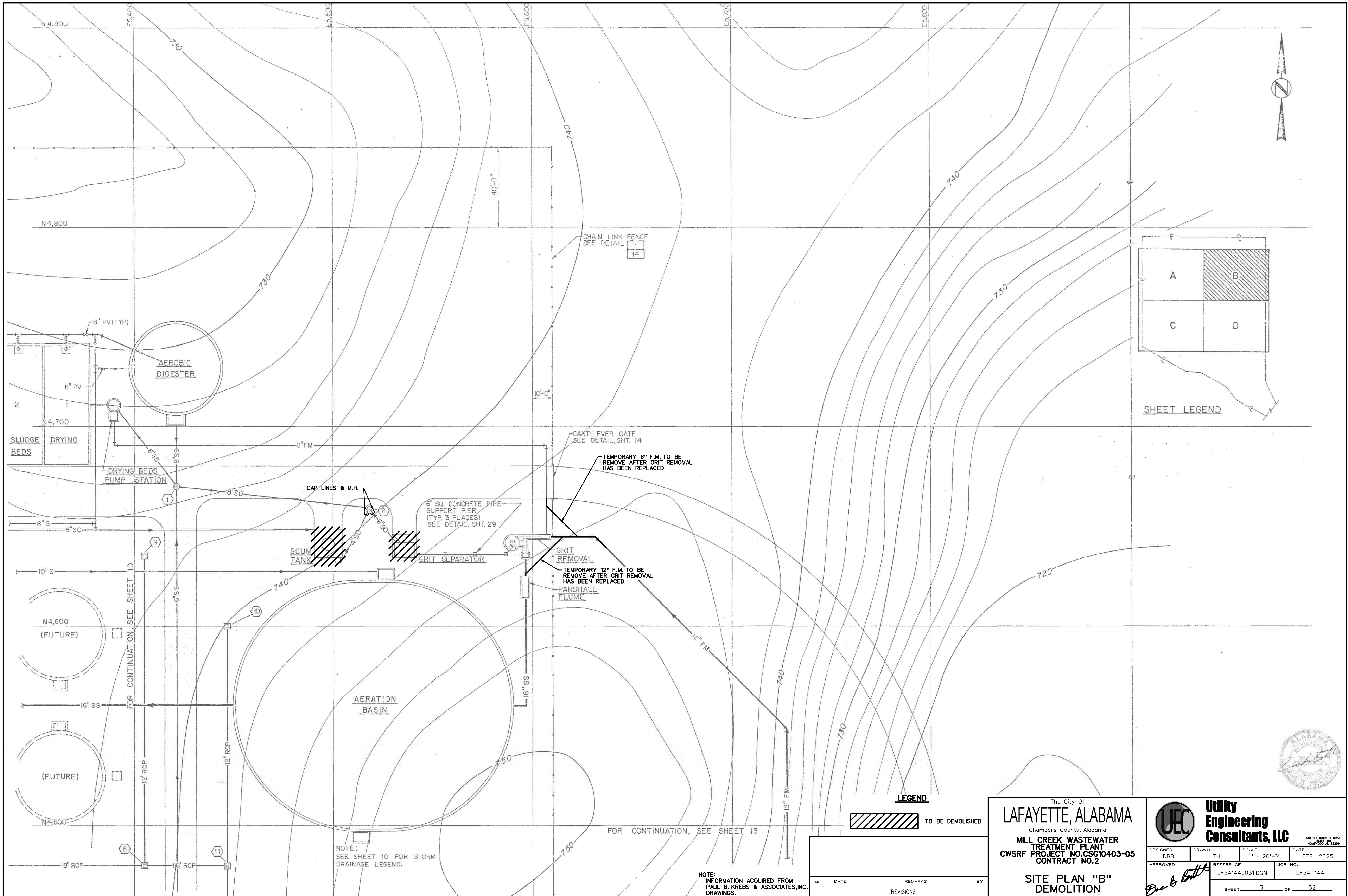
CONTRACT NO.2

STANDARD SYMBOLS

Utility Engineering Consultants, LLC

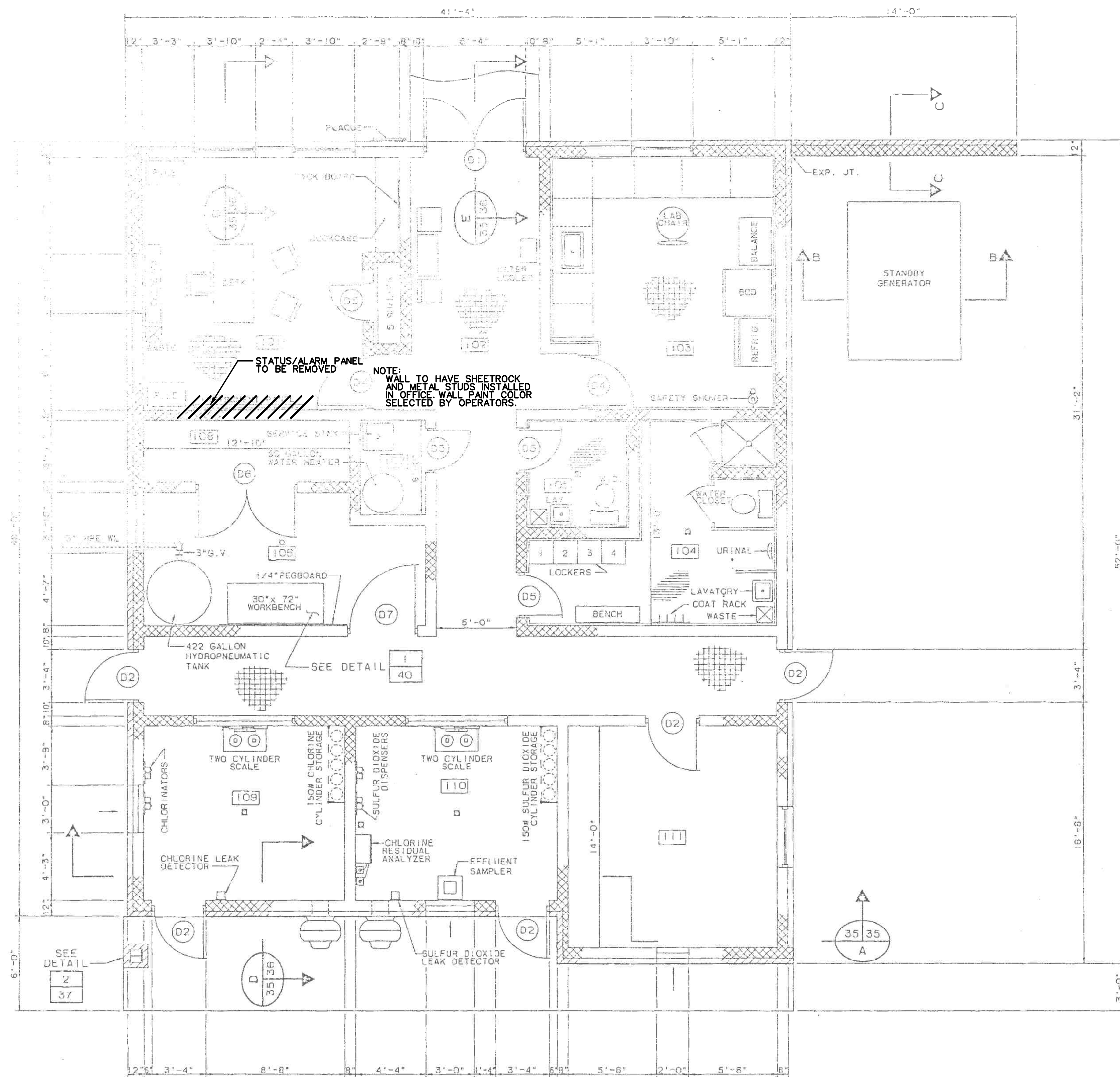
400 SOUTHWEST DRIVE SUITE 201 HUNTSVILLE, AL 35890

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED	REFERENCE LF24144L002.DGN	JOB NO. LF24 144	
SHEET 2 OF 32			

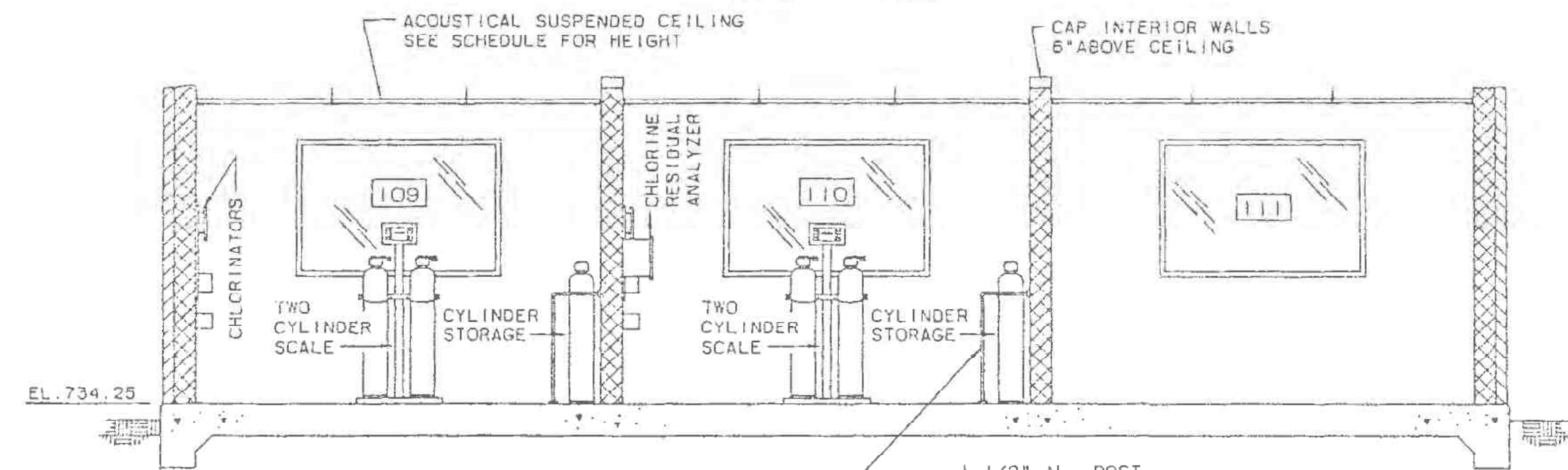


The City Of
LAFAYETTE, ALABAMA
 Chambers County, Alabama
MILL CREEK WASTEWATER TREATMENT PLANT
 CWSRF PROJECT NO. CSG10403-05
 CONTRACT NO. 2
SITE PLAN "B" DEMOLITION

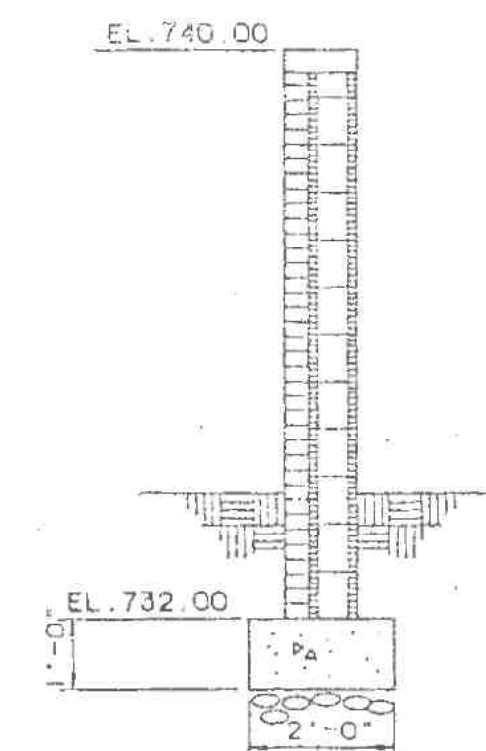
Utility Engineering Consultants, LLC
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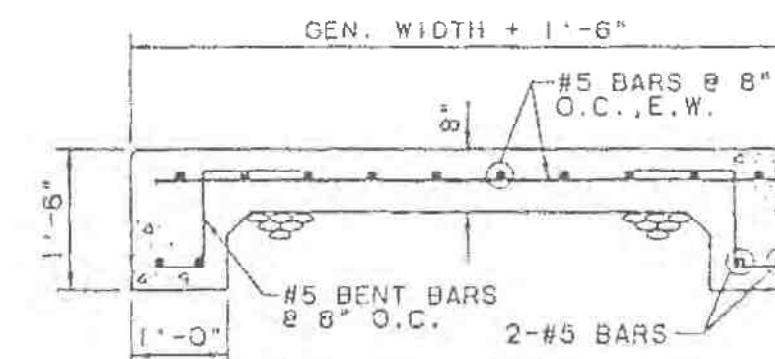
PLAN
SCALE: 1/4" = 1'-0"



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



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



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

LEGEND

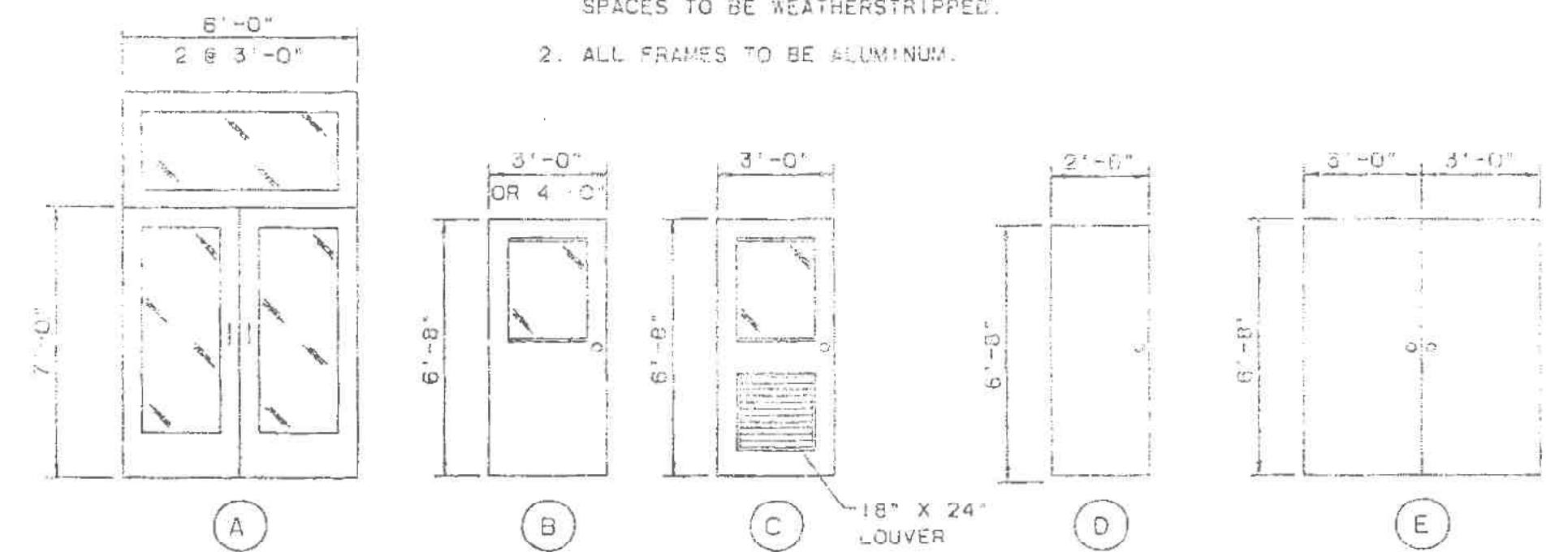
TO BE DEMOLISHED

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY
REVISIONS			

NOTES:

- EXTERIOR DOORS AND DOORS BETWEEN CONDITIONED AND UNCONDITIONED SPACES TO BE WEATHERSTRIPPED.
- ALL FRAMES TO BE ALUMINUM.



DOOR SCHEDULE

NO.	MASONRY OPENING		DOOR SIZE			REMARKS
	WIDTH	HEIGHT	W	H	T	
D1	6'-4"	9'-0"	2 8	7'-0"	1 3/4"	TRANSOM LITE 22" HIGH AL. DOOR; A
D2	3'-4"	6'-10"	3'-0"	6'-8"	1 3/4"	AL. DOOR; 1/4" WIRE GLASS; B PANIC HARDWARE
D3	3'-4"	6'-10"	3'-0"	6'-8"	1 3/4"	AL. DOOR; 1/4" WIRE GLASS; C
D4	3'-4"	6'-10"	3'-0"	6'-8"	1 3/4"	WOOD DOOR; 1/4" WIRE GLASS; D
D5	2'-10"	6'-10"	2'-6"	6'-8"	1 3/4"	WOOD DOOR; D
D6	6'-4"	6'-10"	3'-0"	6'-8"	1 3/4"	ALUM. DOOR; E
D7	4'-4"	6'-10"	4'-0"	6'-8"	1 3/4"	AL. DOOR; 1/4" WIRE GLASS; B

ROOM FINISH SCHEDULE

ROOM NO.	NAME	FINISHES		CEILING HEIGHT
		FLOOR	WALLS	
101	OFFICE	QT	P(E)	8'-6"
102	HALLWAY	QT	P(E)	9'-6"
103	LABORATORY	QT	CT	8'-6"
104	SHOWER	CT	CT	8'-6"
105	TOILET	CT	CT	9'-6"
106	UTILITY ROOM	P(S)	P(E)	8'-6"
107	UTILITY CLOSET	P(S)	P(E)	8'-6"
108	INSTRUMENT PANEL HVAC ROOM	P(S)	P(E)	8'-6"
109	CHLORINE ROOM	P(S)	P(E)	9'-6"
110	SULFUR DIOXIDE ROOM	P(S)	P(E)	9'-6"
111	ELECTRICAL EQUIP. ROOM	P(S)	P(E)	9'-6"

LEGEND:

- QT - QUARRY TILE
CT - CERAMIC TILE
(FULL HEIGHT ON WALLS)
P(E) - PAINT W/EPOXY
P(S) - PAINT W/CONCRETE STAIN

NOTES:

- ALL CEILINGS TO BE ACOUSTICAL CEILING.
- EAST & WEST WALLS IN BLOWER/GENERATOR ROOM SHALL BE OF 8" ACOUSTICAL BLOCK.
- ALL WINDOWS TO HAVE CERAMIC TILE SILLS.



The City Of
LAFAYETTE, ALABAMA

Chambers County, Alabama

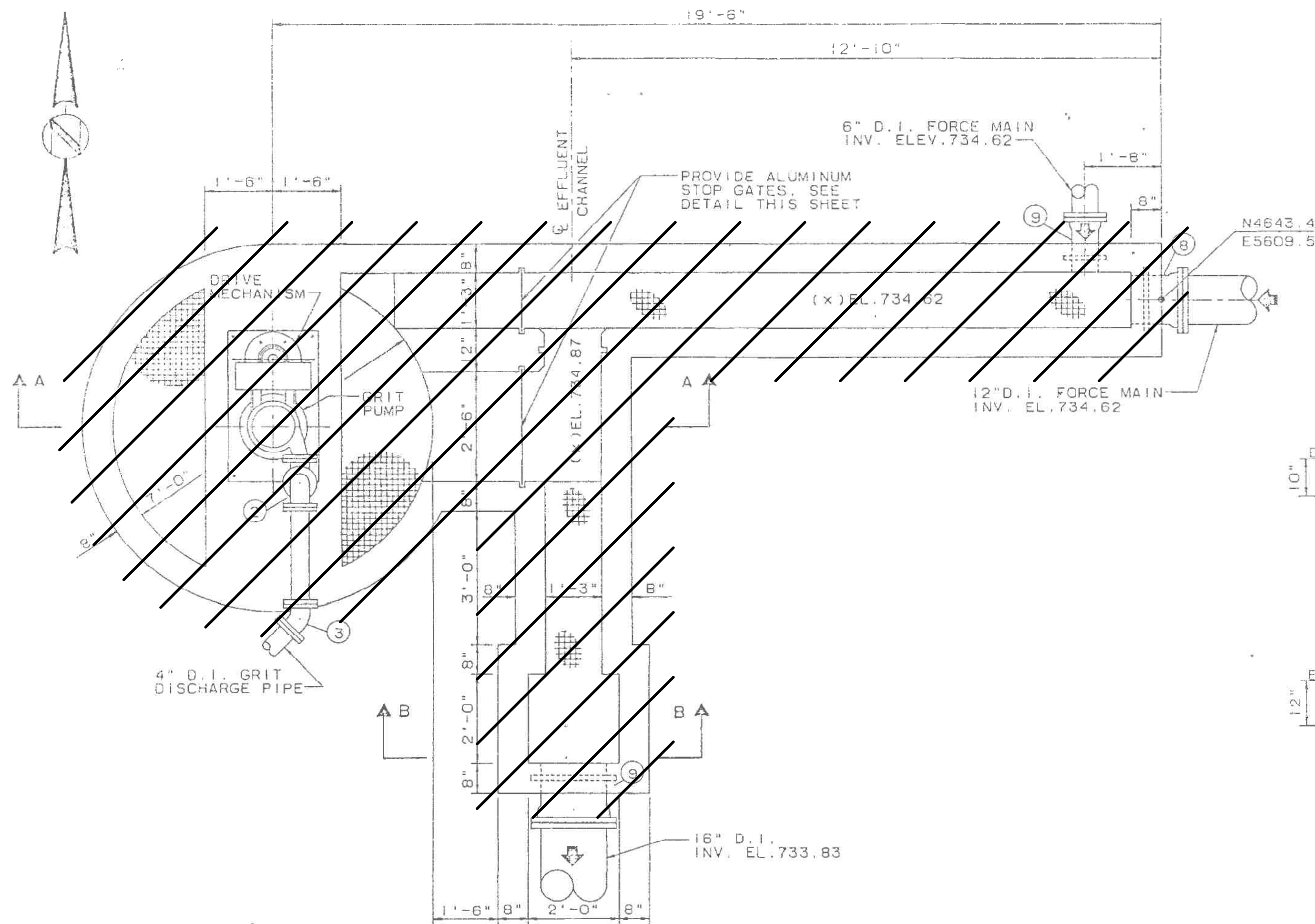
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
CONTROL BUILDING
PLAN & SECTIONS
DEMOLITION**



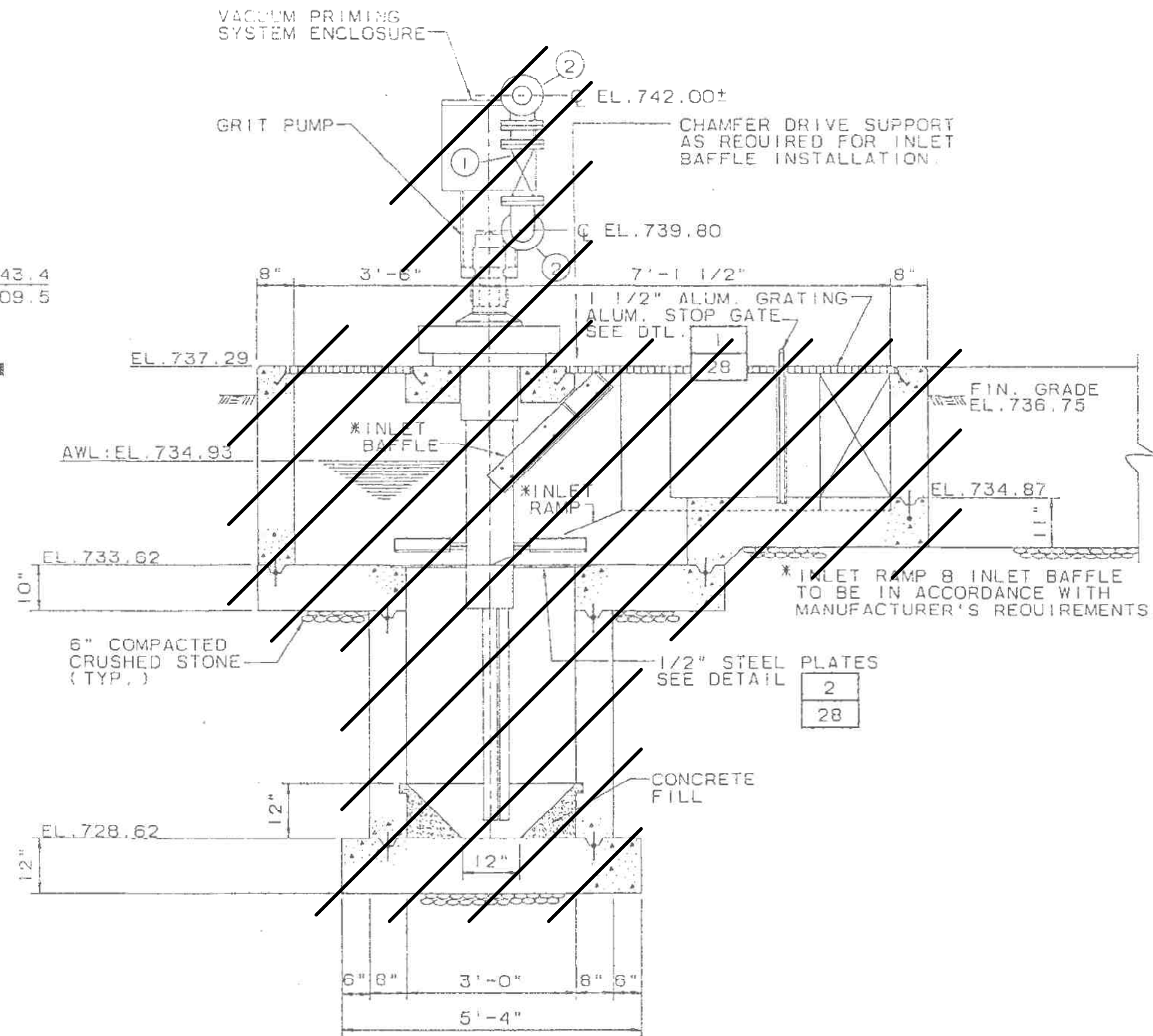
**Utility
Engineering
Consultants, LLC**

130 SOUTHWEST DRIVE
SUITE 100
HOMESBORO, AL 35029

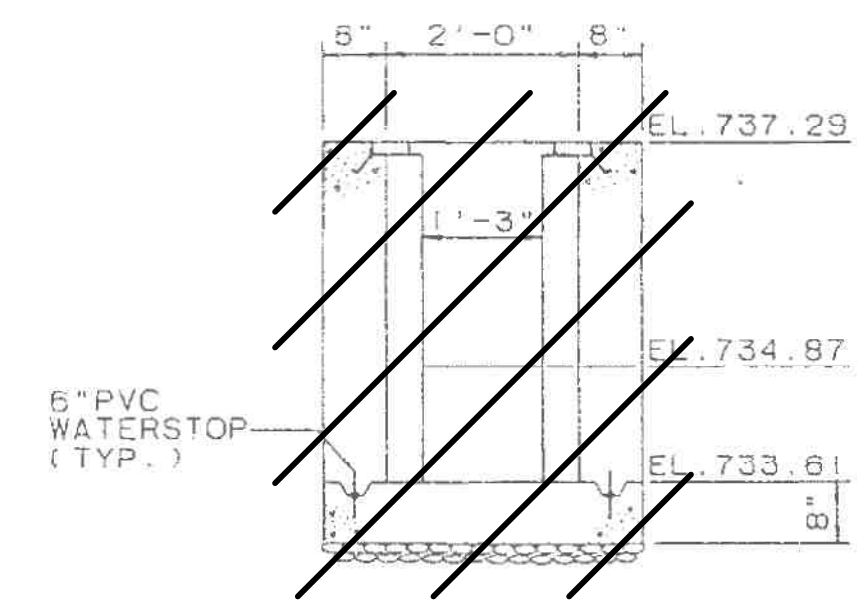
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due B. Butts</i>	REFERENCE LF24144L015.DGN	JOB NO. LF24 144	
SHEET 4 OF 32			



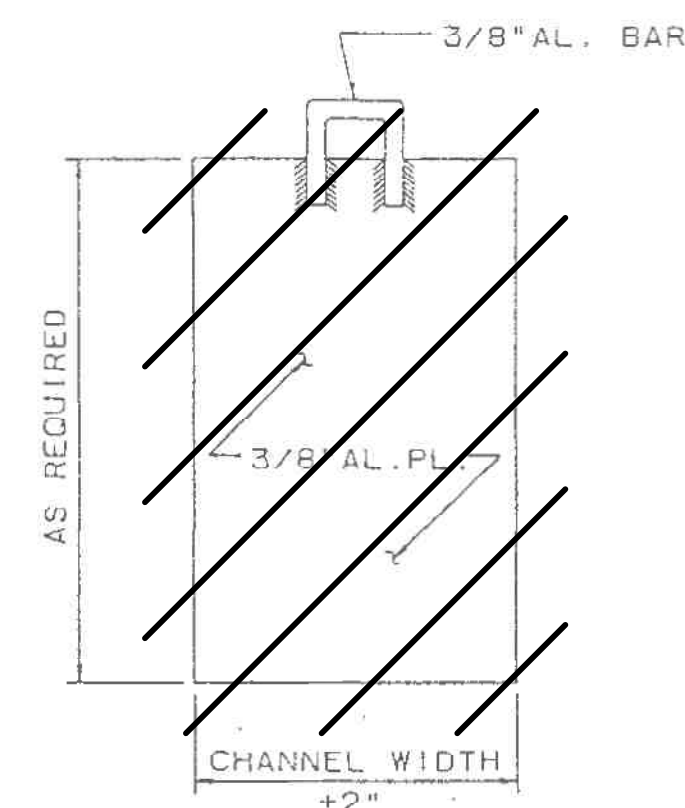
PLAN-GRIT REMOVAL TANK
1/2"=1'-0"



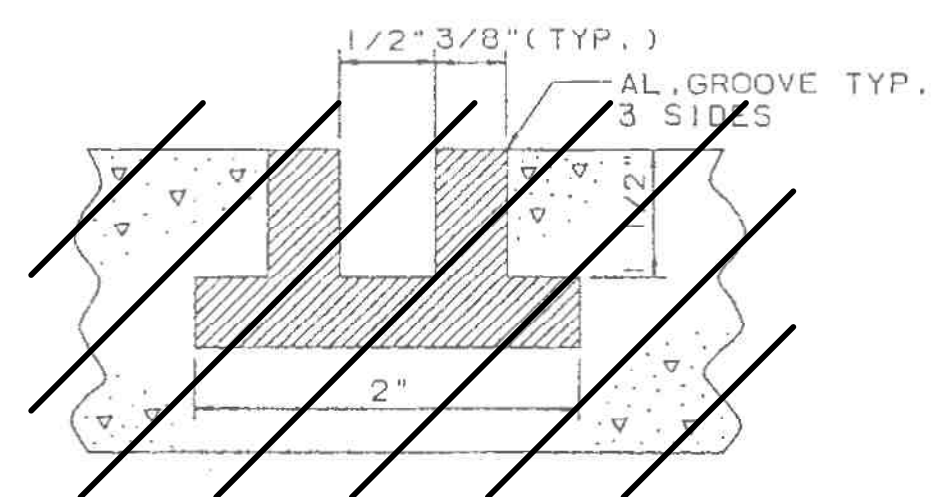
SECTION A-A
SCALE: 1/2"=1'-0"



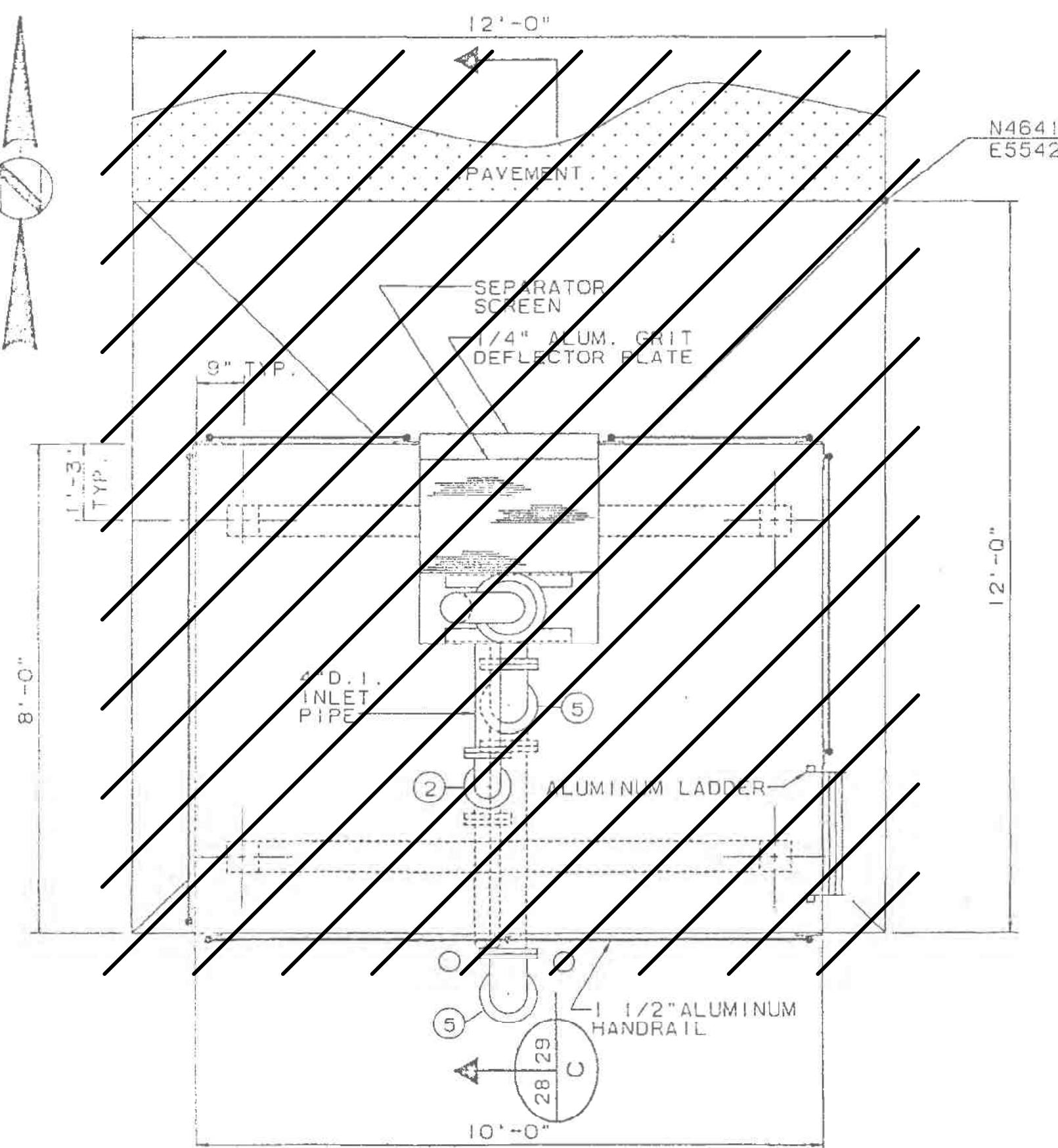
SECTION B-B
SCALE: 1/2"=1'-0"



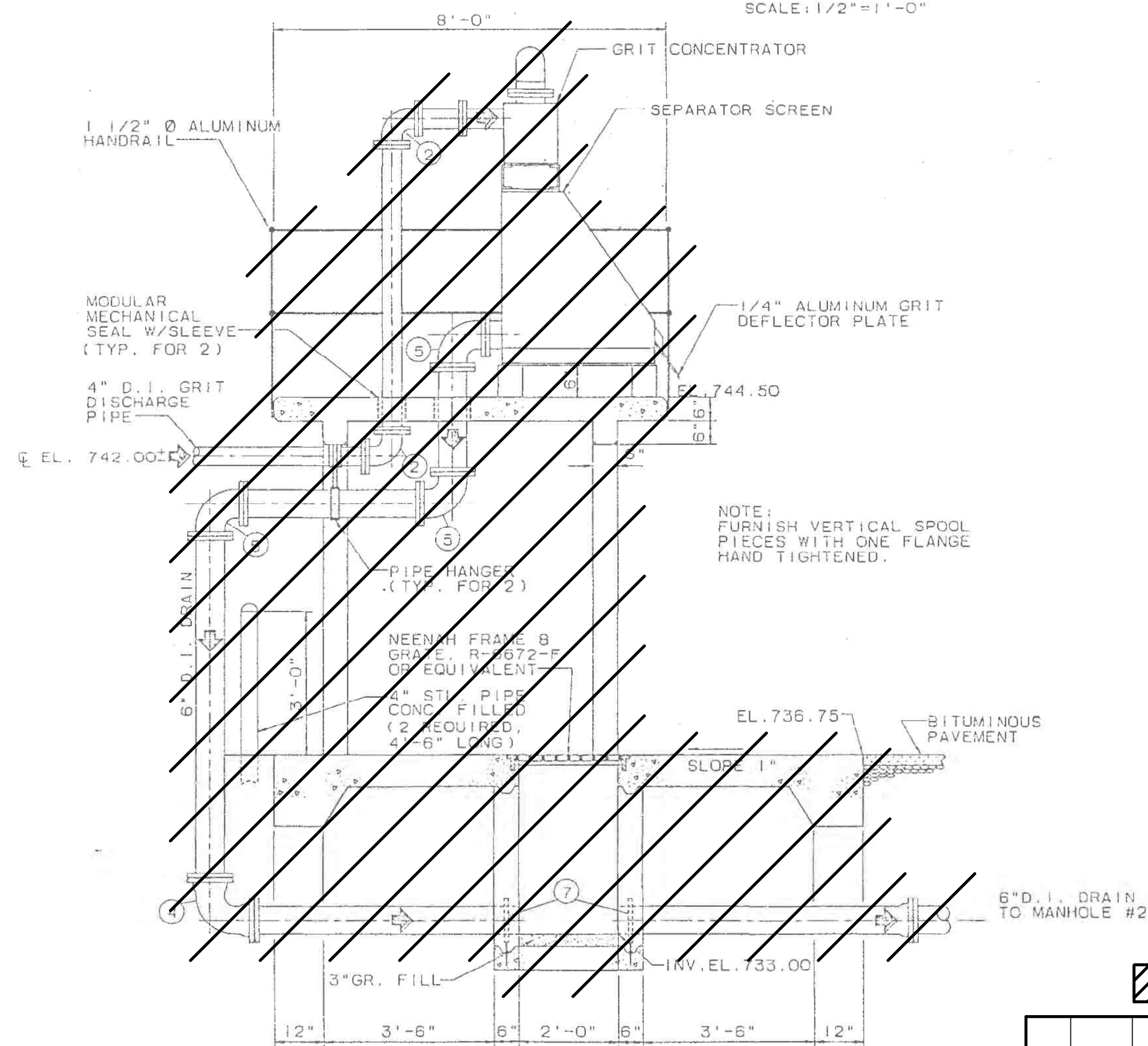
DETAIL 1
NO SCALE 28



DETAIL 2
3/4"=1'-0" 28



PLAN - GRIT SEPARATOR PLATFORM
SCALE: 1/2"=1'-0"



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

LEGEND



TO BE DEMOLISHED

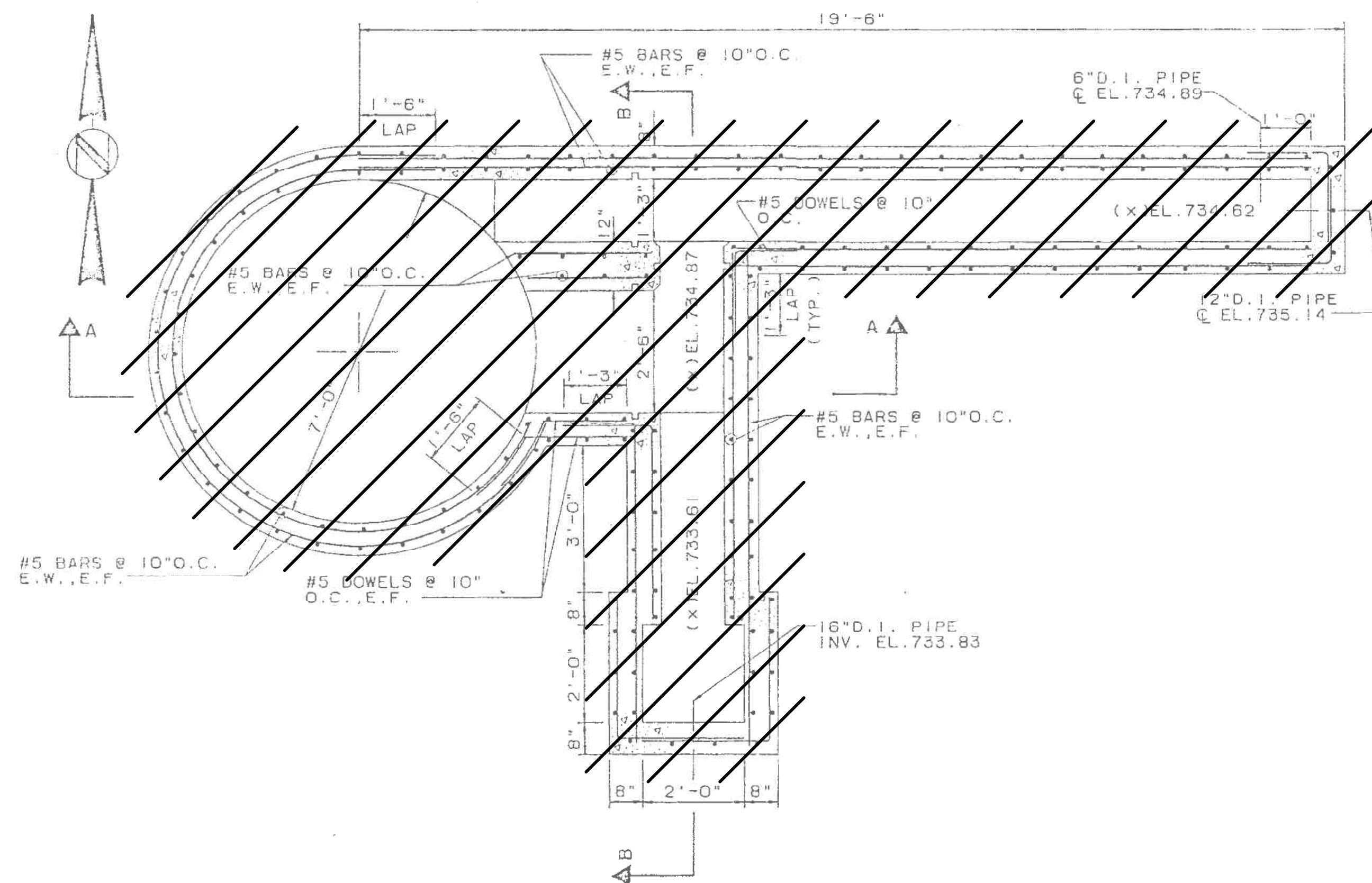
NO.	DATE	REMARKS	BY

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

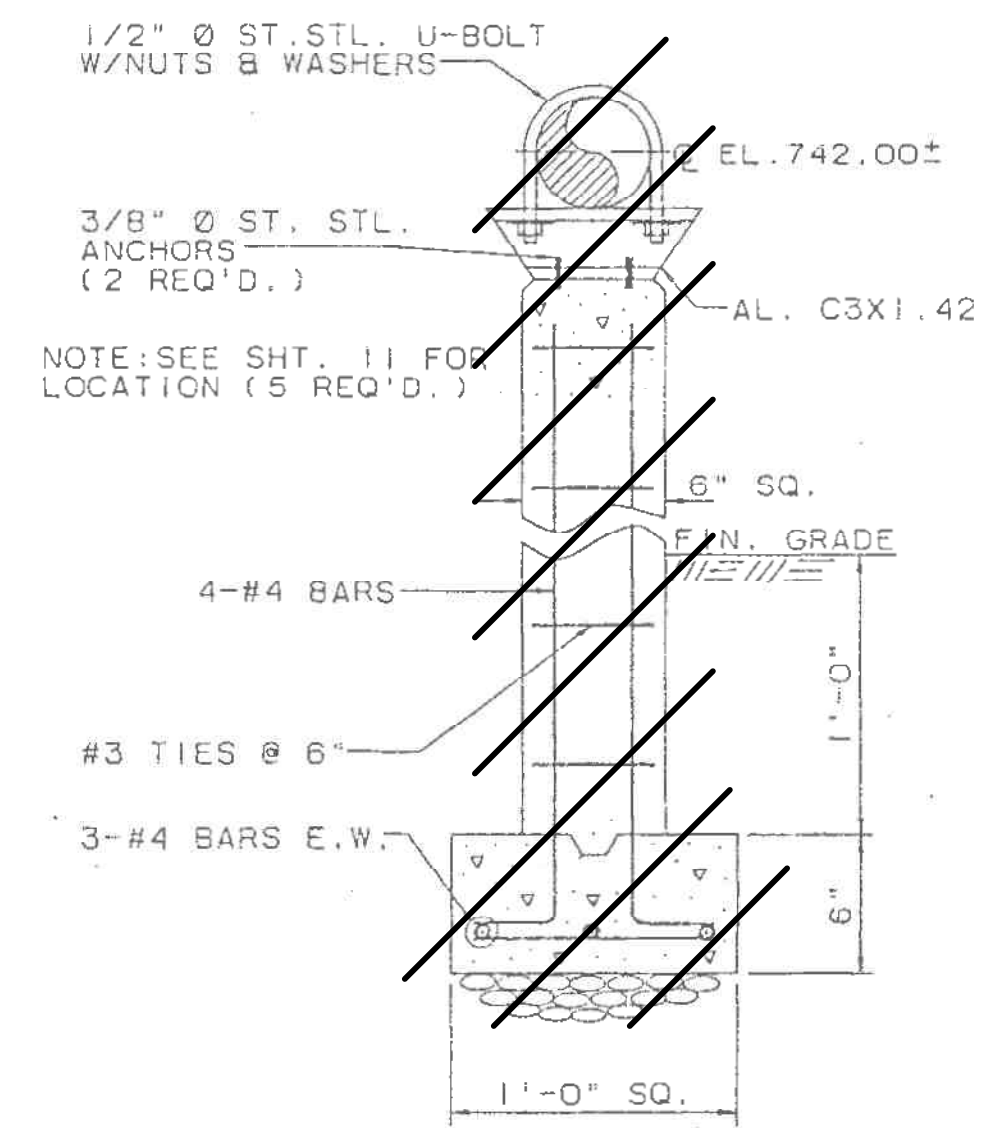
The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT**
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
**EXISTING GRIT TANK AND
GRIT SEPARATOR
DEMOLITION**

Utility Engineering Consultants, LLC		DESIGNED DBB		DRAWN LTH		SCALE AS NOTED		DATE FEB., 2025	
APPROVED <i>Don B. Butler</i>		REFERENCE LF24144L013.DGN		JOB NO. LF24 144		SHEET 5		OF 32	

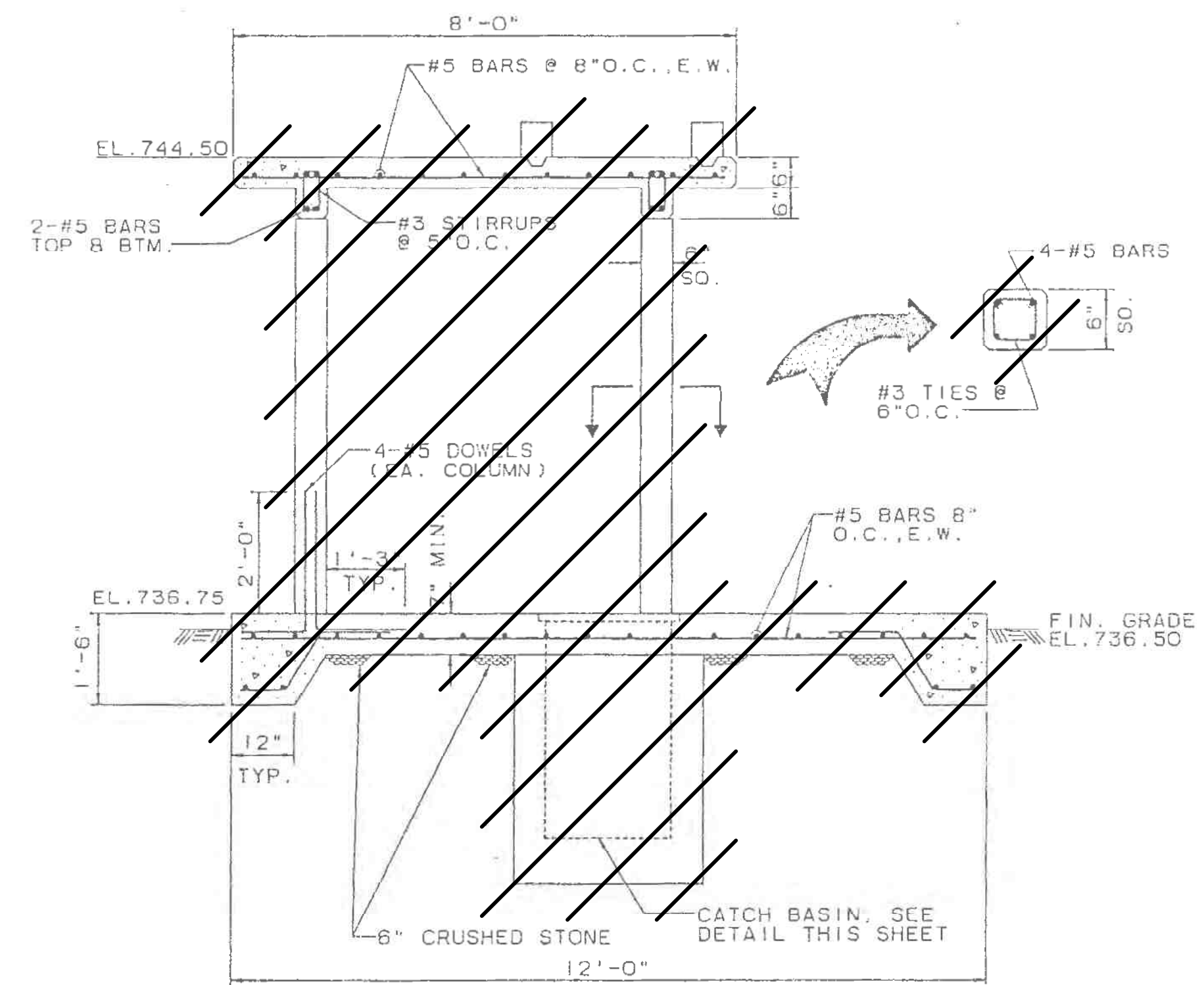




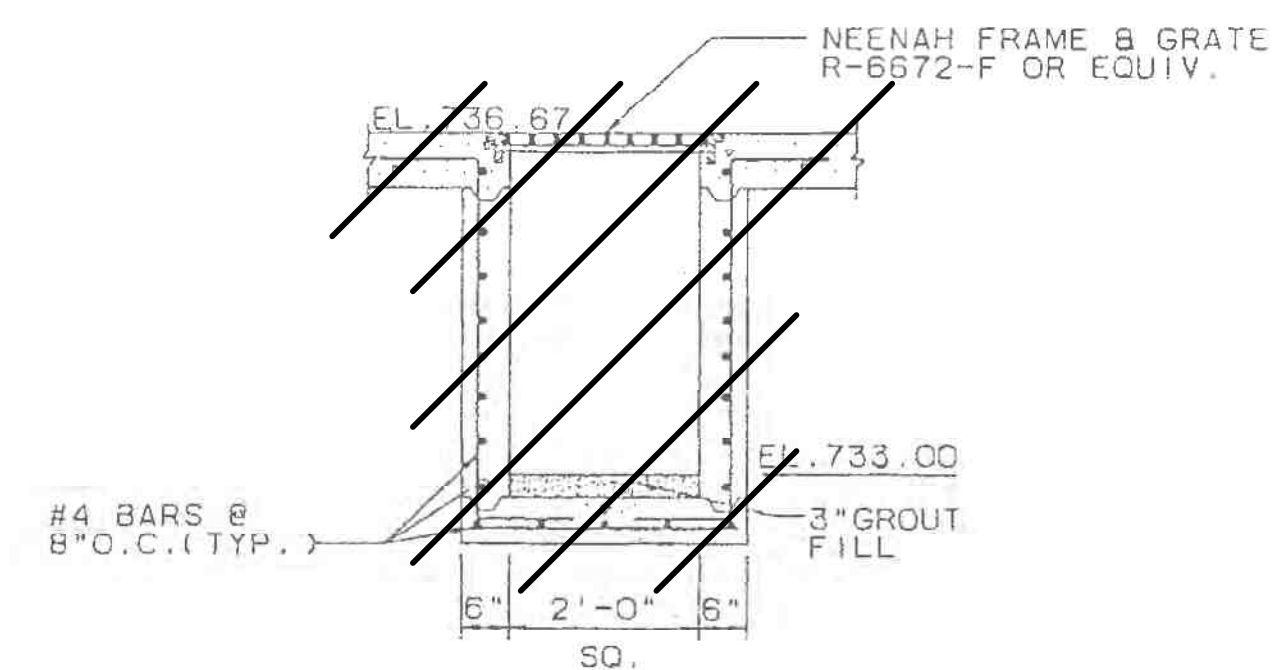
PLAN-GRIT REMOVAL TANK
1/2"=1'-0"



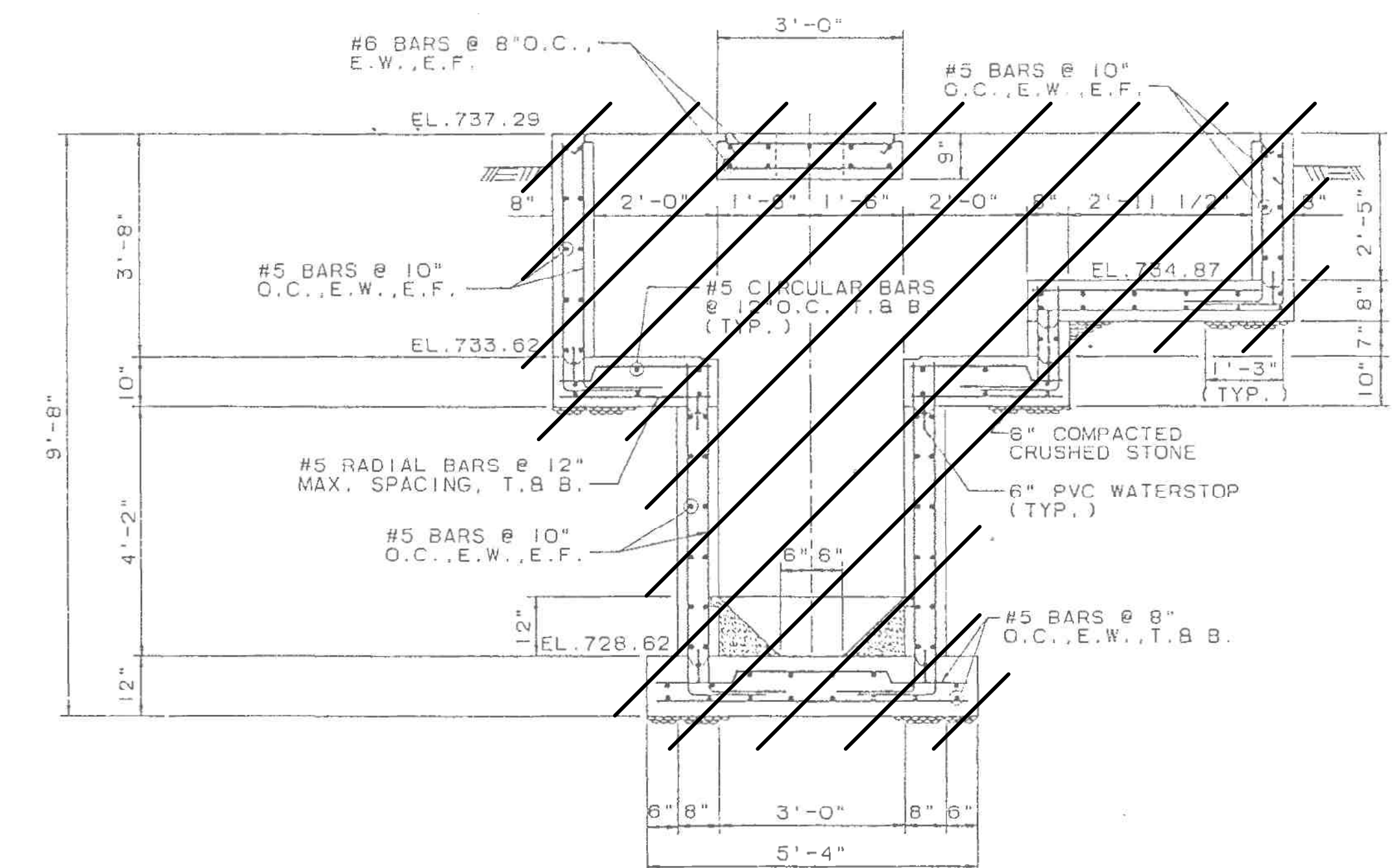
GRIT DISCHARGE PIPE SUPPORT
SCALE: 1/2"=1'-0"



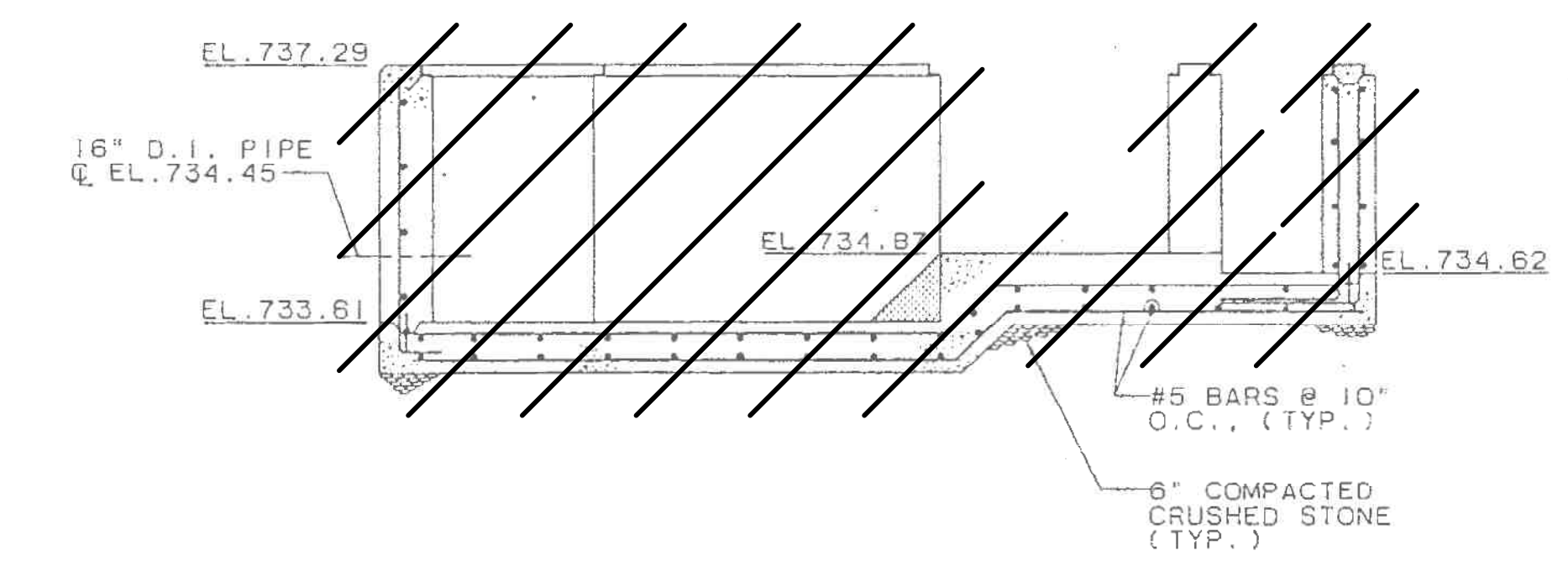
SECTION A-A
SCALE: 1/2"=1'-0"



CATCH BASIN DETAIL
SCALE: 1/2"=1'-0"



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



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

NOTE: CRUSHED STONE BASE TO BE THOROUGHLY WETTED PRIOR TO POURING OF CONCRETE.

LEGEND



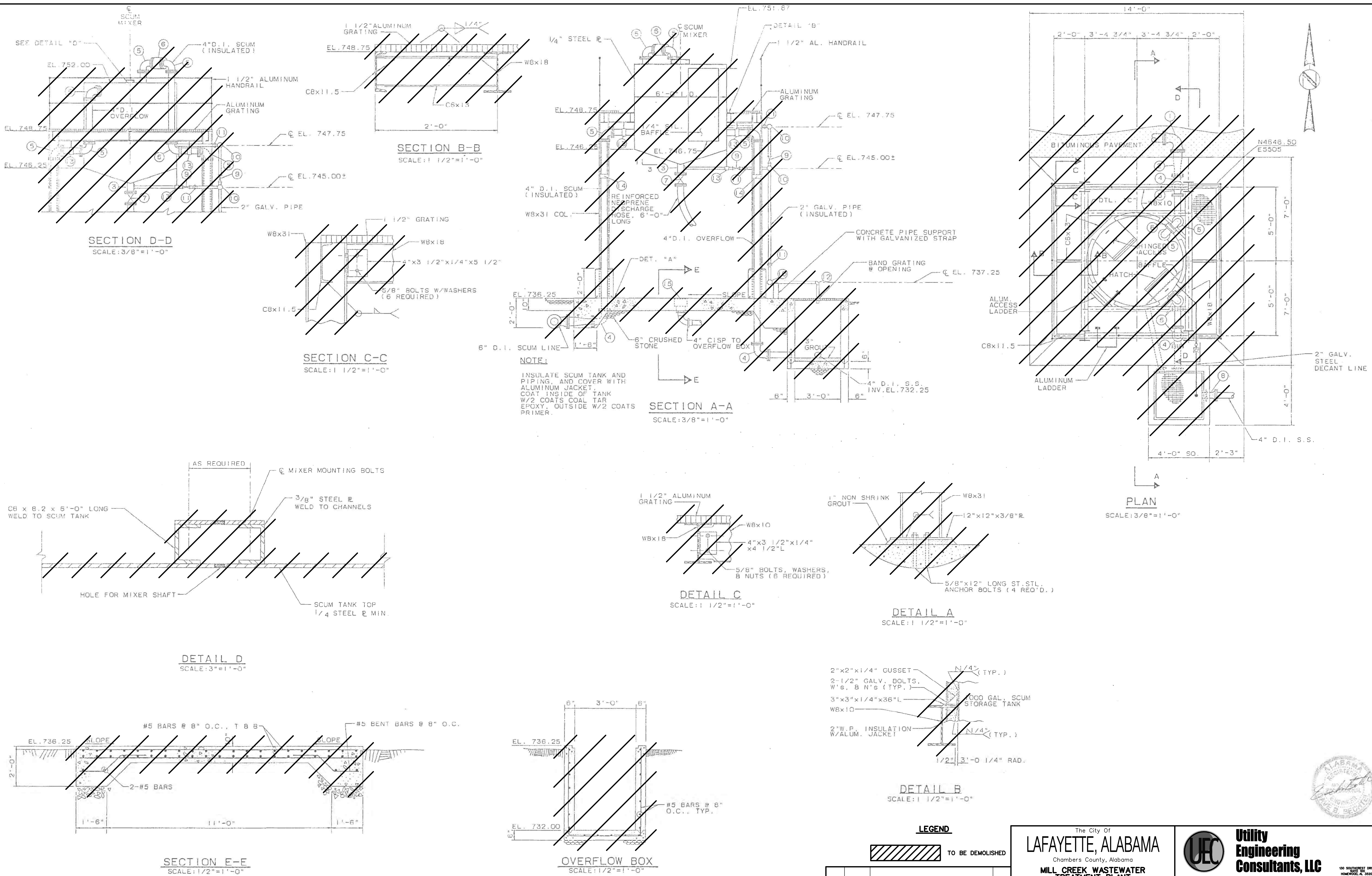
NOTE: INFORMATION ACQUIRED FROM PAUL B. KREBS & ASSOCIATES, INC. DRAWINGS.

NO.	DATE	REMARKS	BY

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
EXISTING GRIT TANK AND GRIT SEPARATOR STRUCT. DEMOLITION

DESIGNED DBB		DRAWN LTH		SCALE AS NOTED		DATE FEB., 2025	
APPROVED		REFERENCE LF24144L014.DGN		JOB NO. LF24 144		SHEET 6 OF 32	





The City of
LAFAYETTE, ALABAMA
Chambers County, Alabama

MILL CREEK WASTEWATER TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
EXISTING SCUM TANK PLAN & SECTIONS DEMOLITION

Utility Engineering Consultants, LLC

DESIGNED: DBB
DRAWN: LTH
SCALE: AS NOTED
DATE: FEB., 2025

APPROVED: *Due & Butts*
REFERENCE: LF24144L016.DGN
JOB NO.: LF24 144

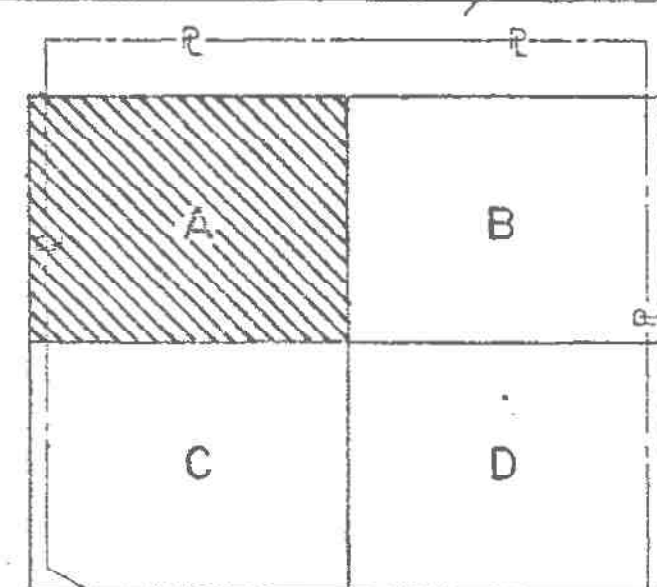
SHEET 7 OF 32

N4,900

STORM DRAINAGE LEGEND

STRUCTURE NO.	TYPE	ELEVATIONS			REMARKS	C COORDINATES	
		TOP	INV. IN	INV. OUT		NORTH	EAST
1	MANHOLE	734.17	726.50	726.33	INV. EL. 8" LINES IN 729.50	4670.00	5421.00
2	MANHOLE	734.08	732.75	730.00	INV. EL. 4" IN 732.00	4657.00	5518.00
3	MANHOLE	729.75	720.00	718.00		4341.50	5261.00
4	MANHOLE	724.50	717.40	717.23		4341.50	5129.67
5	CATCH BASIN	733.67	—	729.67		4635.25	5200.00
6	CATCH BASIN	733.67	729.57	729.40		4635.25	5248.00
7	CATCH BASIN	733.67	729.25	729.08		4480.00	5248.00
8	CATCH BASIN	733.67	728.92	728.75	12" IN 729.00	4480.00	5405.00
9	CATCH BASIN	733.67	—	729.31		4635.25	5405.00
10	CATCH BASIN	732.67	—	728.75		4800.00	5447.00
11	CATCH BASIN	732.67	728.66	728.33	12" IN 728.50	4480.00	5447.00
13	MANHOLE	734.00	730.00	728.00		4401.00	5420.00

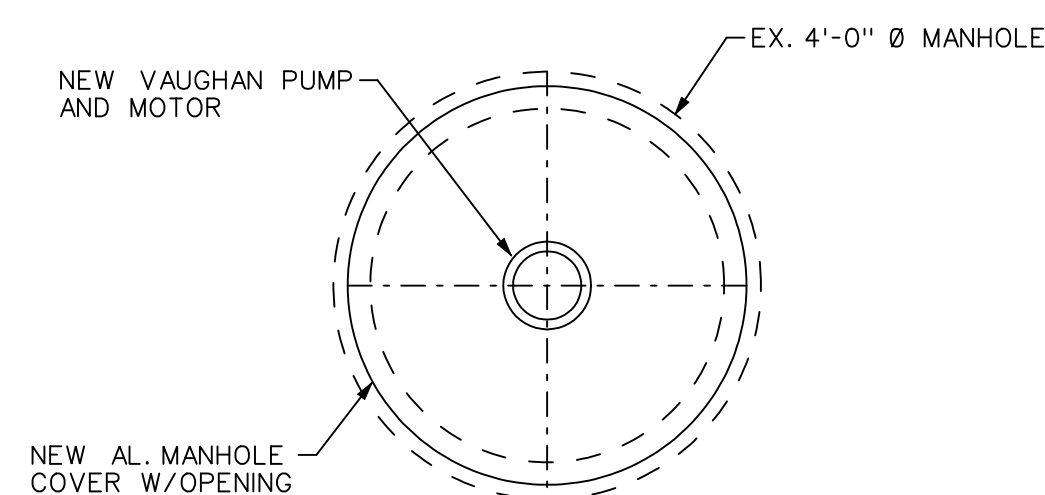
N4,800



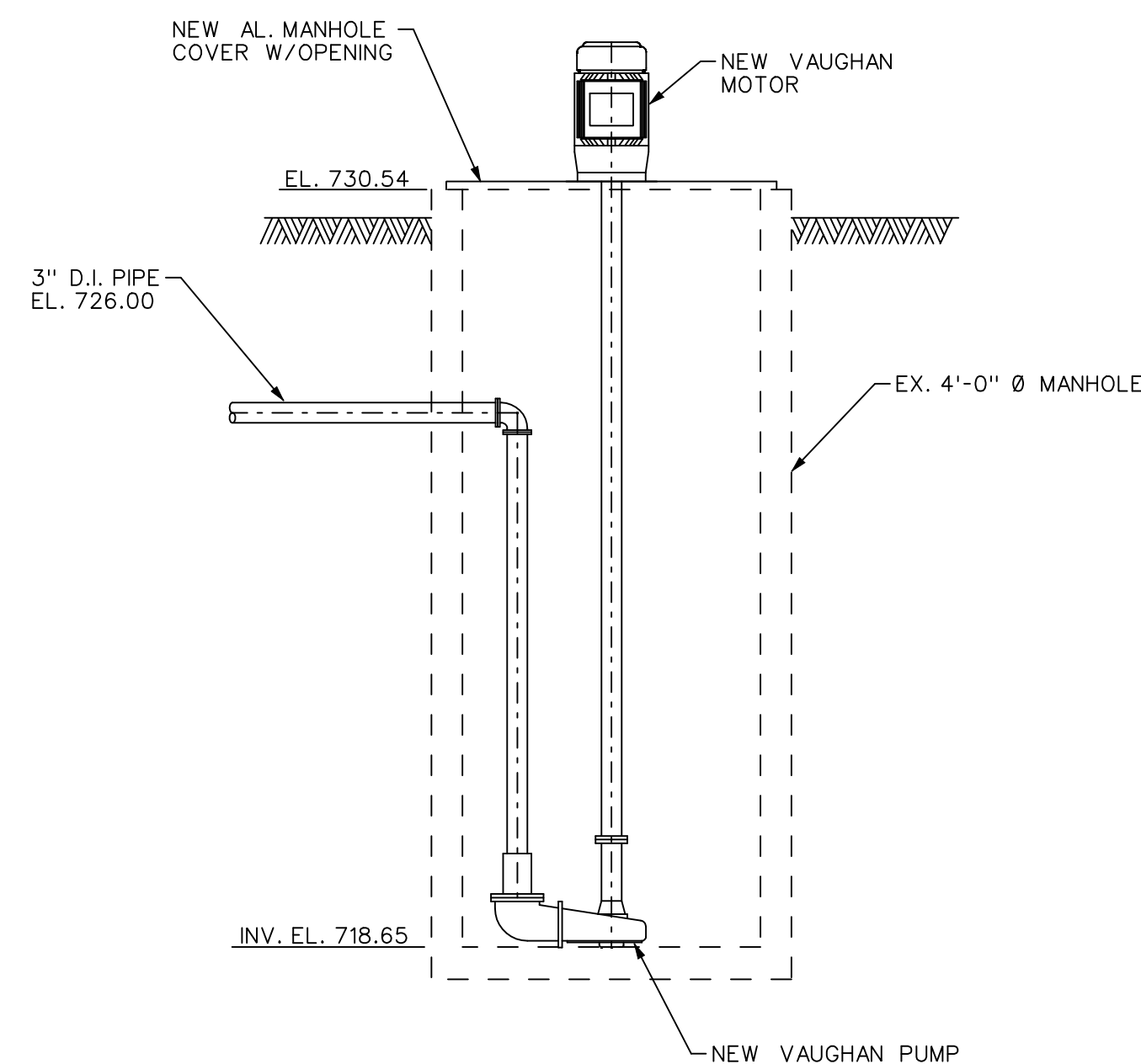
PIPING LEGEND

A	AIR
G	GRIT
SC	SCUM
SS	SANITARY SEWER
SD	SANITARY DRAIN
S	SLUDGE
DS	DIGESTER SLUDGE
FM	FORCE MAIN
PE	PLANT EFFLUENT
CL	CHLORINE (SOLUTION)
CW	CITY WATER
PW	PLANT WATER
S/L	SAMPLE LINE
EW	EFFLUENT WATER
NG	NATURAL GAS
SO2	SULFUR DIOXIDE (SOLUTION)
VC	VITRIFIED CLAY
C.I.	CAST IRON
D.I.	DUCTILE IRON
C.I.S.P.	CAST IRON SOIL PIPE
PVC	POLYVINYL CHLORIDE
B/P	BYPASS
∇	PLUG VALVE
C.O.	CLEANOUT

NOTE: ALL YARD PIPING TO BE DUCTILE IRON UNLESS OTHERWISE SHOWN.



PLAN
NO SCALE



MANHOLE SECTION
NO SCALE


(EX. PUMP AND EQUIPT. TO BE REPLACED)

FOR CONTINUATION, SEE SHEET 12

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2**
**SITE PLAN "A"
MECHANICAL**

		Utility Engineering Consultants, LLC		100 SOUTHWEST DRIVE HOUSTON, TX 77050	
DESIGNED DBB	DRAWN LTH	SCALE 1" = 20'-0"	DATE FEB., 2025		
APPROVED <i>Don B. Butler</i>		REFERENCE LF24144L017.DGN	JOB NO. LF24 144		
		SHEET 8 OF 32			

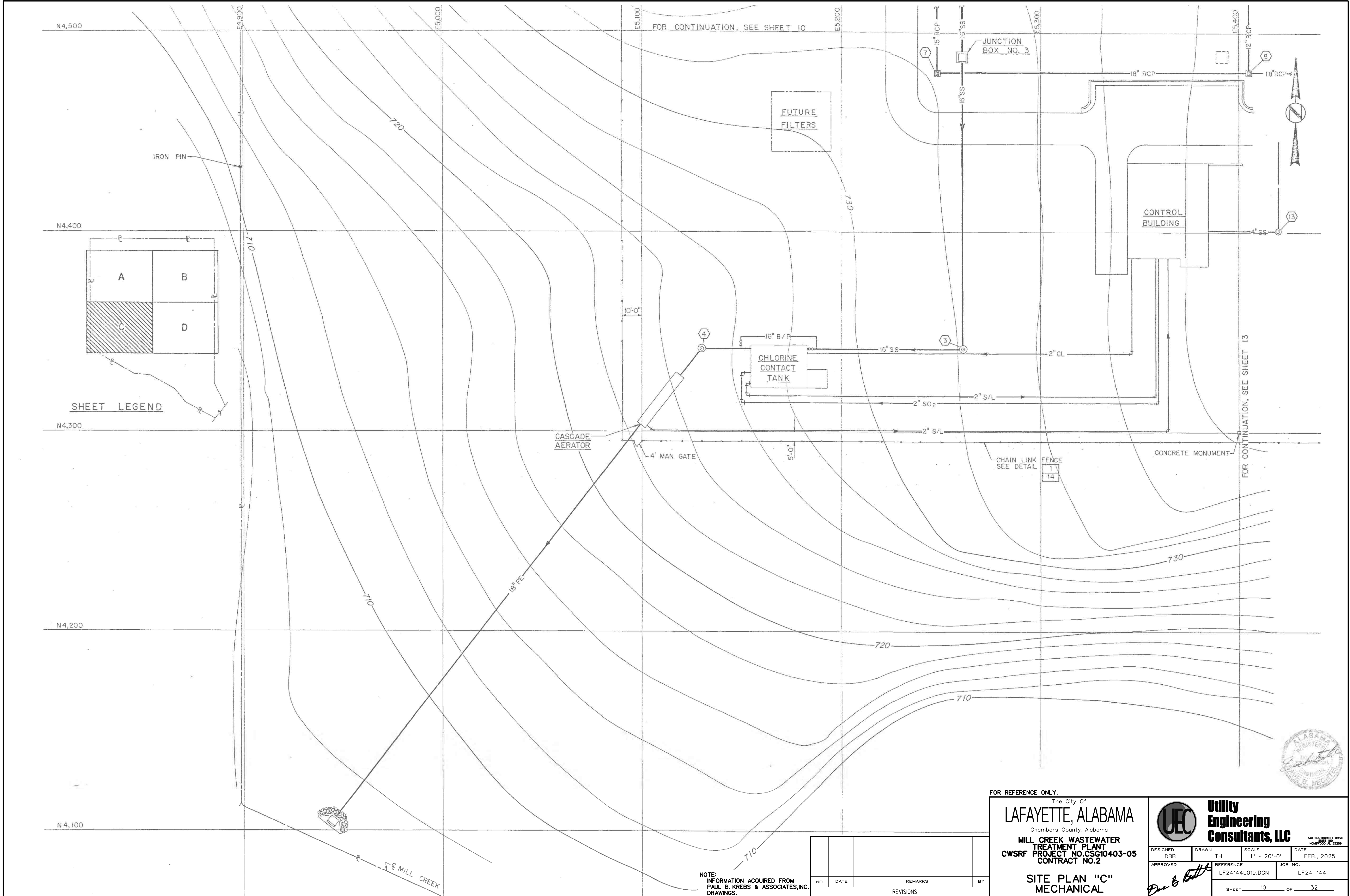


The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2**

**SITE PLAN "B"
MECHANICAL**

**Utility
Engineering
Consultants, LLC**
300 SOUTHWEST DRIVE
HOUSTON, TX 77058

DESIGNED DBB	DRAWN LTH	SCALE 1" = 20'-0"	DATE FEB., 2025
APPROVED <i>Don B. Butler</i>	REFERENCE LF24144L018.DGN	JOB NO. LF24 144	
SHEET 9 OF 32			



NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.


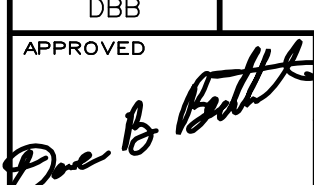
NO.	DATE	REMARKS	BY

FOR REFERENCE ONLY.

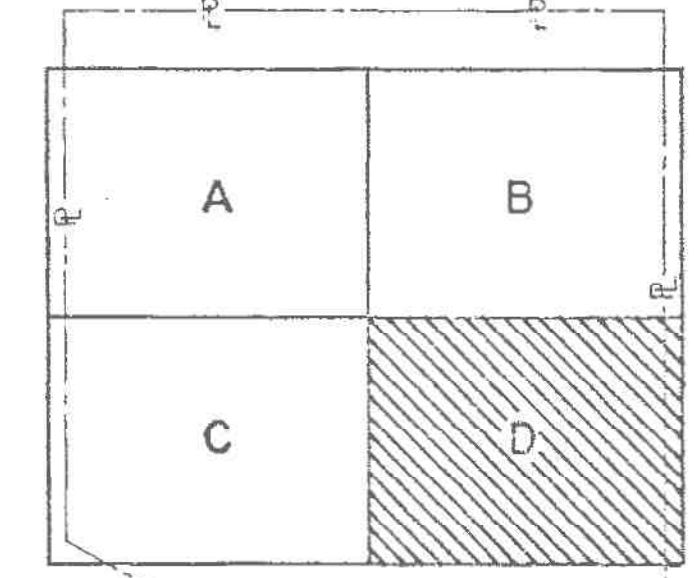
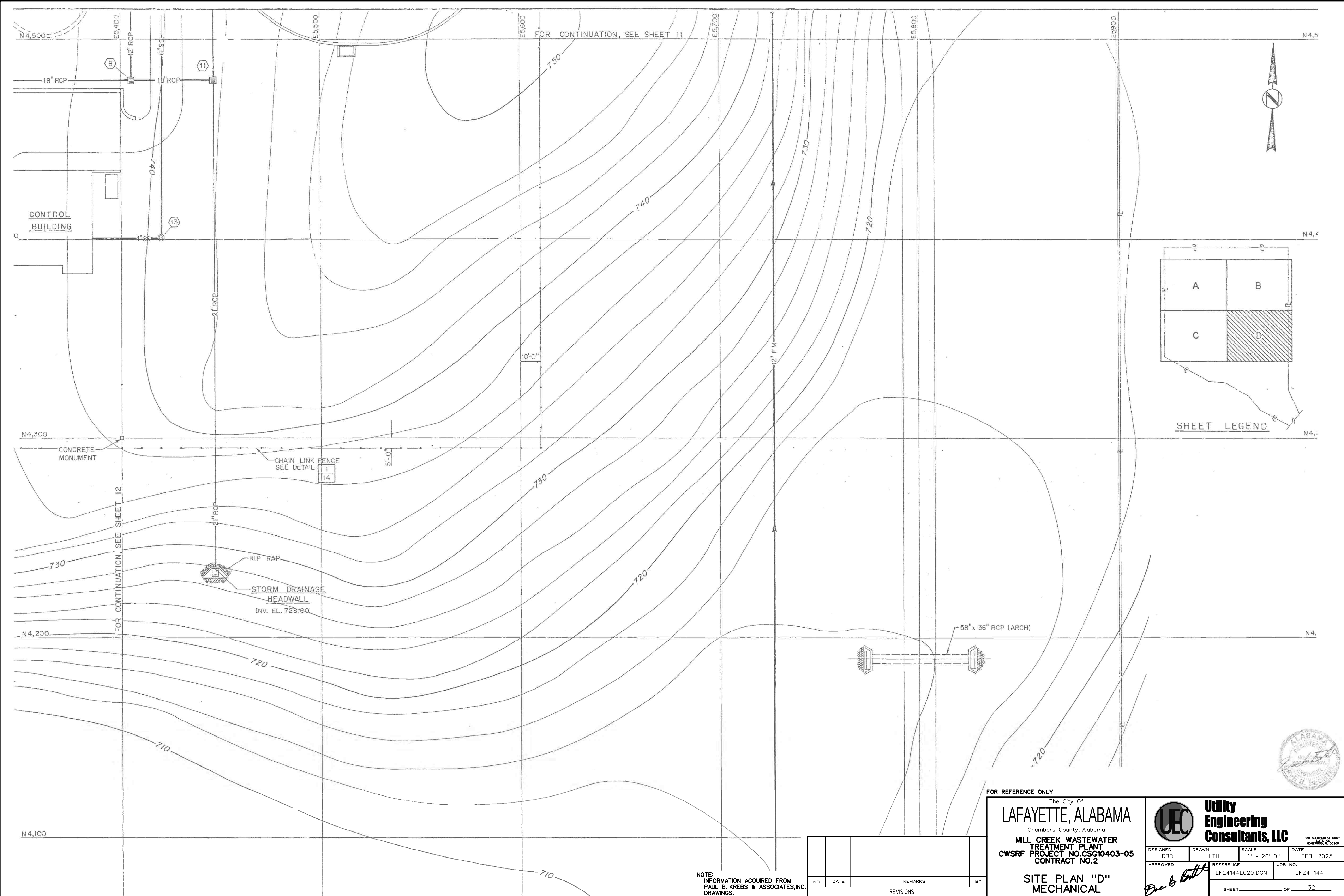
The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama

**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2**

**SITE PLAN "C"
MECHANICAL**

		Utility Engineering Consultants, LLC	
DESIGNED DBB	DRAWN LTH	SCALE 1" = 20'-0"	DATE FEB., 2025
APPROVED 	REFERENCE LF24144L019.DGN	JOB NO. LF24 144	
SHEET 10		OF 32	





NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY

FOR REFERENCE ONLY

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama

**MILL CREEK WASTEWATER
TREATMENT PLANT**
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2

**SITE PLAN "D"
MECHANICAL**

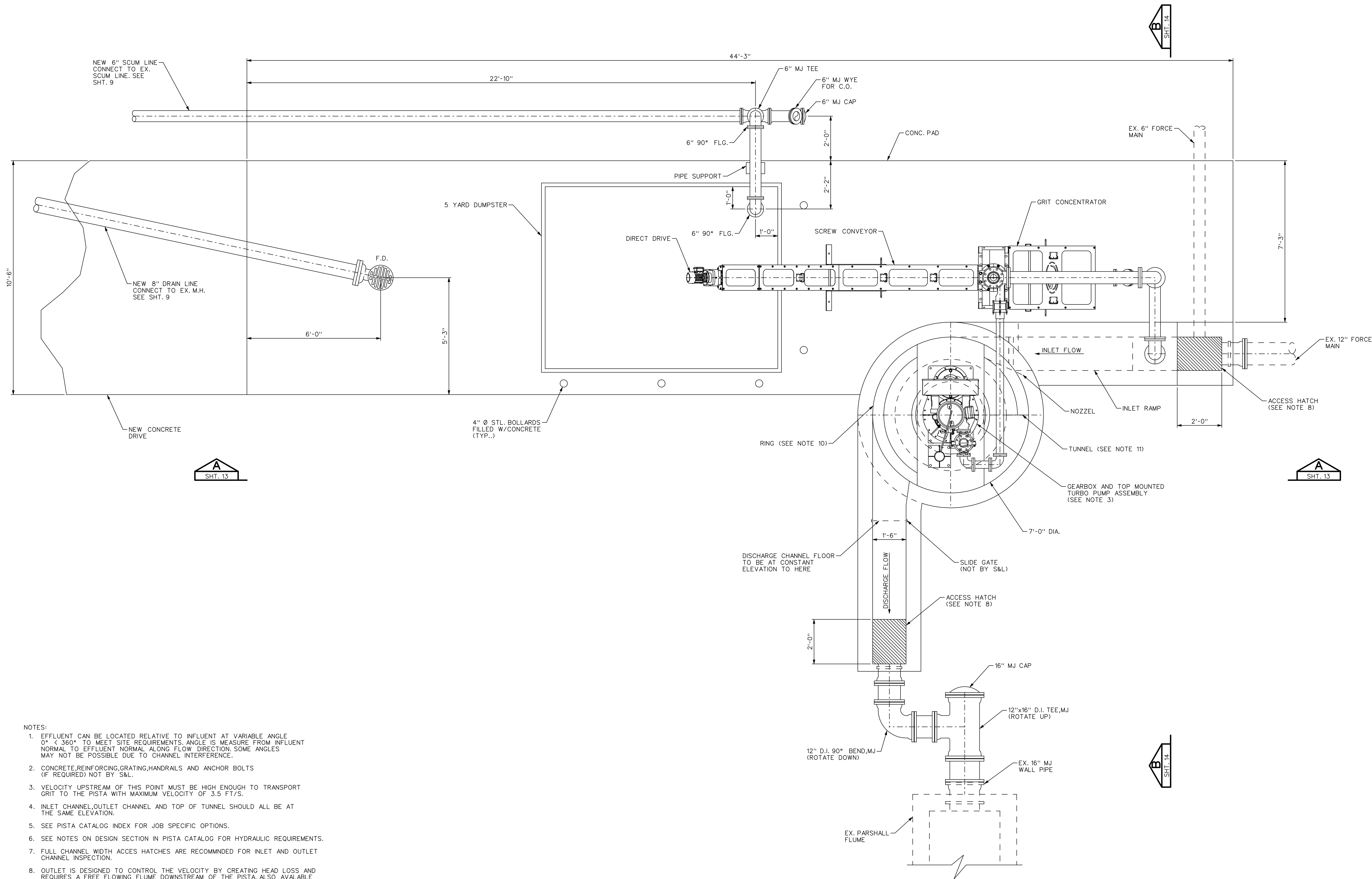
**Utility
Engineering
Consultants, LLC**

DESIGNED DBB DRAWN LTH SCALE 1" = 20'-0" DATE FEB., 2025

APPROVED *Due B. Butler* REFERENCE LF24144L020.DGN JOB NO. LF24 144

SHEET 11 OF 32





- NOTES:
- EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE $0^{\circ} < 360^{\circ}$ TO MEET SITE REQUIREMENTS. ANGLE IS MEASURED FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION. SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
 - CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
 - VELOCITY UPSTREAM OF THIS POINT MUST BE HIGH ENOUGH TO TRANSPORT GRIT TO THE PISTA WITH MAXIMUM VELOCITY OF 3.5 FT/S.
 - INLET CHANNEL, OUTLET CHANNEL AND TOP OF TUNNEL SHOULD ALL BE AT THE SAME ELEVATION.
 - SEE PISTA CATALOG INDEX FOR JOB SPECIFIC OPTIONS.
 - SEE NOTES ON DESIGN SECTION IN PISTA CATALOG FOR HYDRAULIC REQUIREMENTS.
 - FULL CHANNEL WIDTH ACCESS HATCHES ARE RECOMMENDED FOR INLET AND OUTLET CHANNEL INSPECTION.
 - OUTLET IS DESIGNED TO CONTROL THE VELOCITY BY CREATING HEAD LOSS AND REQUIRES A FREE FLOWING FLUME DOWNSTREAM OF THE PISTA ALSO AVAILABLE WITH NO RESTRICTION, BUT THE HYDRAULIC PROFILE MUST MAINTAIN THE REQUIRED INLET VELOCITY FOR PROPER OPERATION. CONSULT FACTORY.
 - RING IS IN THREE PIECES AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
 - TUNNEL FASTENS TO THE CHAMBER FLOOR WITH CONCRETE ANCHORS (NOT BY S&L) AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
 - NOZZEL IS FASTENED IN PLACE VIA CONCRETE ANCHORS (NOT BY S&L).
 - UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5. UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).

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

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of

LAFAYETTE, ALABAMA

Chambers County, Alabama

MILL CREEK WASTEWATER TREATMENT PLANT

CWSRF PROJECT NO. CSG10403-05

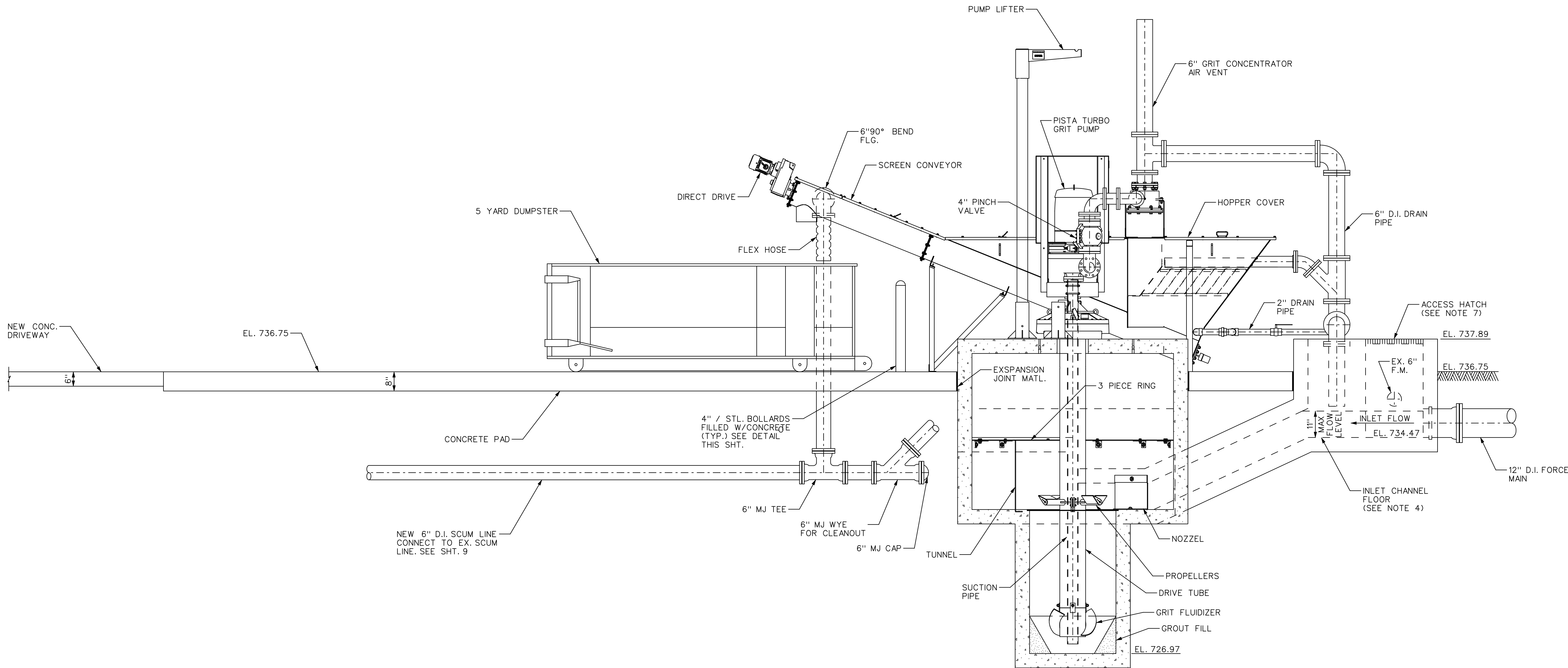
CONTRACT NO. 2

Utility Engineering Consultants, LLC

100 SOUTHWEST DRIVE SUITE 201 HUNTSVILLE, AL 35899

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED	REFERENCE LF24144L022.DGN	JOB NO. LF24 144	
SHEET 12 OF 32			



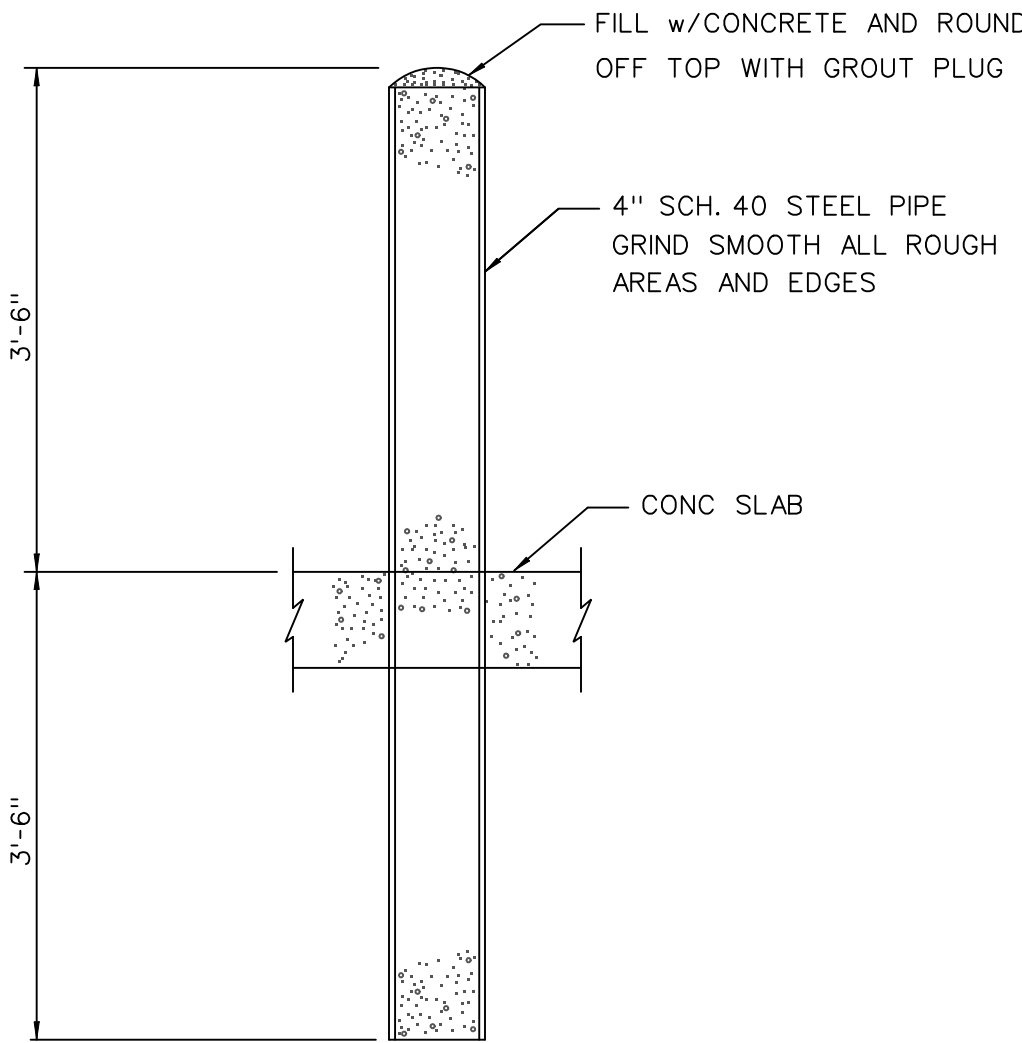


SECTION
SCALE: 1/2"=1'-0"



NOTES:

1. EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE 0° < 360° TO MEET SITE REQUIREMENTS. ANGLE IS MEASURE FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION. SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
2. CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
3. VELOCITY UPSTREAM OF THIS POINT MUST BE HIGH ENOUGH TO TRANSPORT GRIT TO THE PISTA WITH MAXIMUM VELOCITY OF 3.5 FT/S.
4. INLET CHANNEL, OUTLET CHANNEL AND TOP OF TUNNEL SHOULD ALL BE AT THE SAME ELEVATION.
5. SEE PISTA CATALOG INDEX FOR JOB SPECIFIC OPTIONS.
6. SEE NOTES ON DESIGN SECTION IN PISTA CATALOG FOR HYDRAULIC REQUIREMENTS.
7. FULL CHANNEL WIDTH ACCES HATCHES ARE RECOMMENDED FOR INLET AND OUTLET CHANNEL INSPECTION.
8. OUTLET IS DESIGNED TO CONTROL THE VELOCITY BY CREATING HEAD LOSS AND REQUIRES A FREE FLOWING FLUME DOWNSTREAM OF THE PISTA. ALSO AVAILABLE WITH NO RESTRICTION, BUT THE HYDRAULIC PROFILE MUST MAINTAIN THE REQUIRED INLET VELOCITY FOR PROPER OPERATION. CONSULT FACTORY.
9. RING IS IN THREE PIECES AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
10. TUNNEL FASTENS TO THE CHAMBER FLOOR WITH CONCRETE ANCHORS (NOT BY S&L) AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
11. NOZZEL IS FASTENED IN PLACE VIA CONCRETE ANCHORS (NOT BY S&L).
12. UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5. UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).



GUARD POST DETAIL
NO SCALE

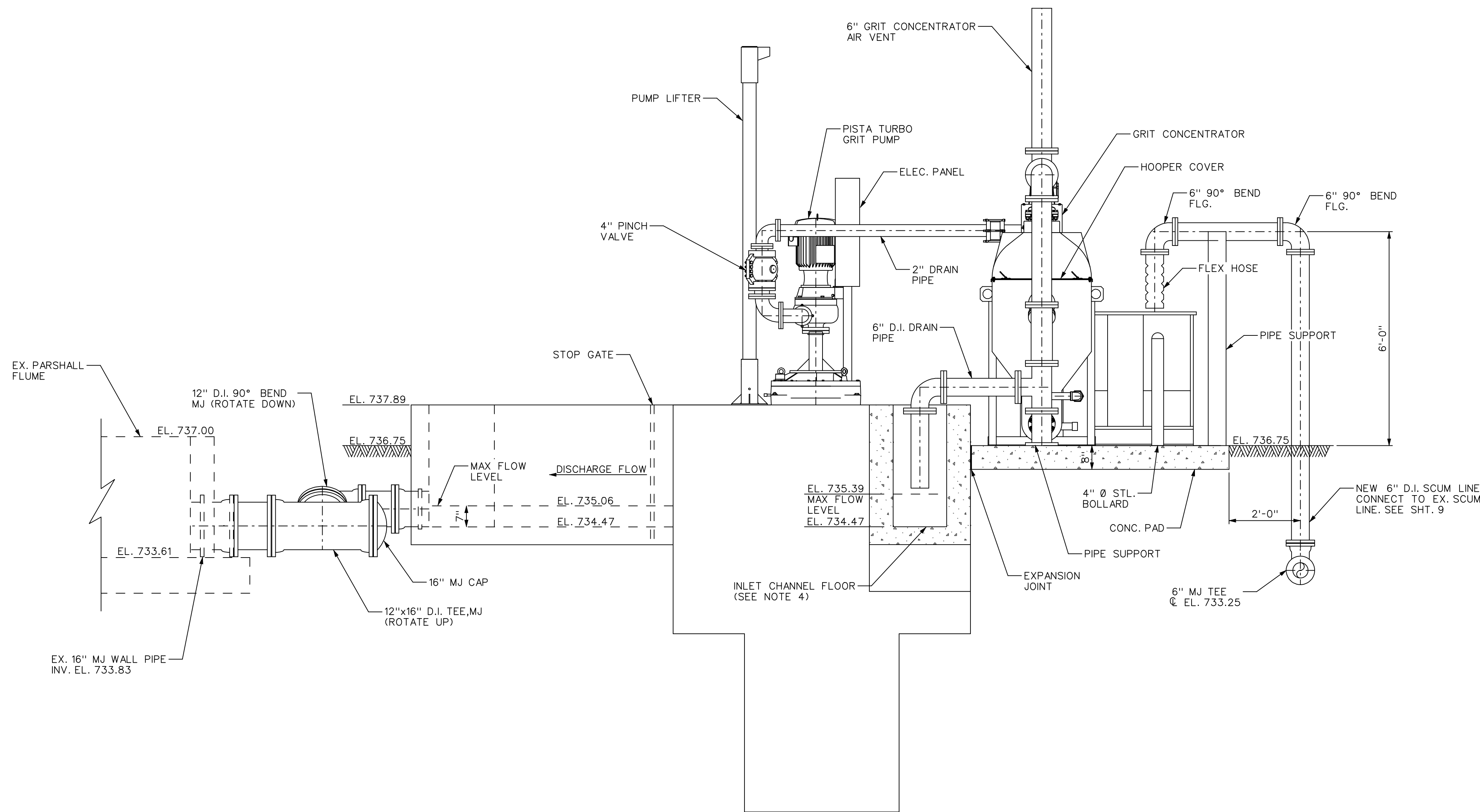
NO.	DATE	REMARKS	BY
REVISIONS			

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
NEW GRIT CHAMBER
SECTION A
MECHANICAL

Utility Engineering Consultants, LLC
100 SOUTHWEST DRIVE
HOUSTON, TX 77060

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due to Butts</i>		REFERENCE LF24144L023.DGN	JOB NO. LF24 144
SHEET 13 OF 32			





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



NOTES:

1. EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE 0° < 360° TO MEET SITE REQUIREMENTS. ANGLE IS MEASURE FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION. SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
2. CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
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12. UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5. UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).

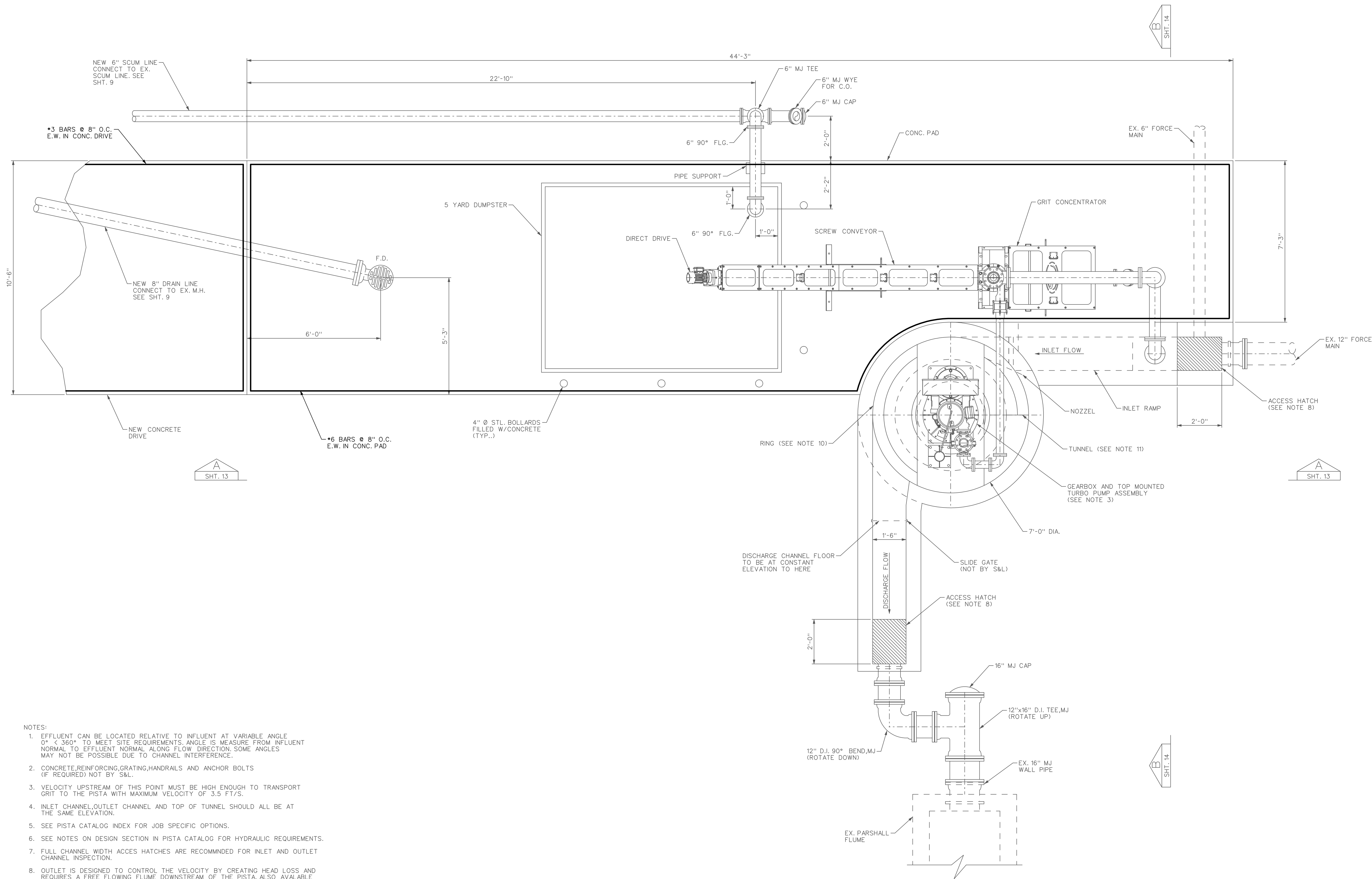
NO.	DATE	REMARKS	BY
REVISIONS			

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
NEW GRIT CHAMBER
SECTION B
MECHANICAL**

Utility Engineering Consultants, LLC
100 SOUTHWEST DRIVE
HOUSTON, TX 77050

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due to Butts</i>	REFERENCE LF24144L024.DGN	JOB NO. LF24 144	
SHEET 14 OF 32			





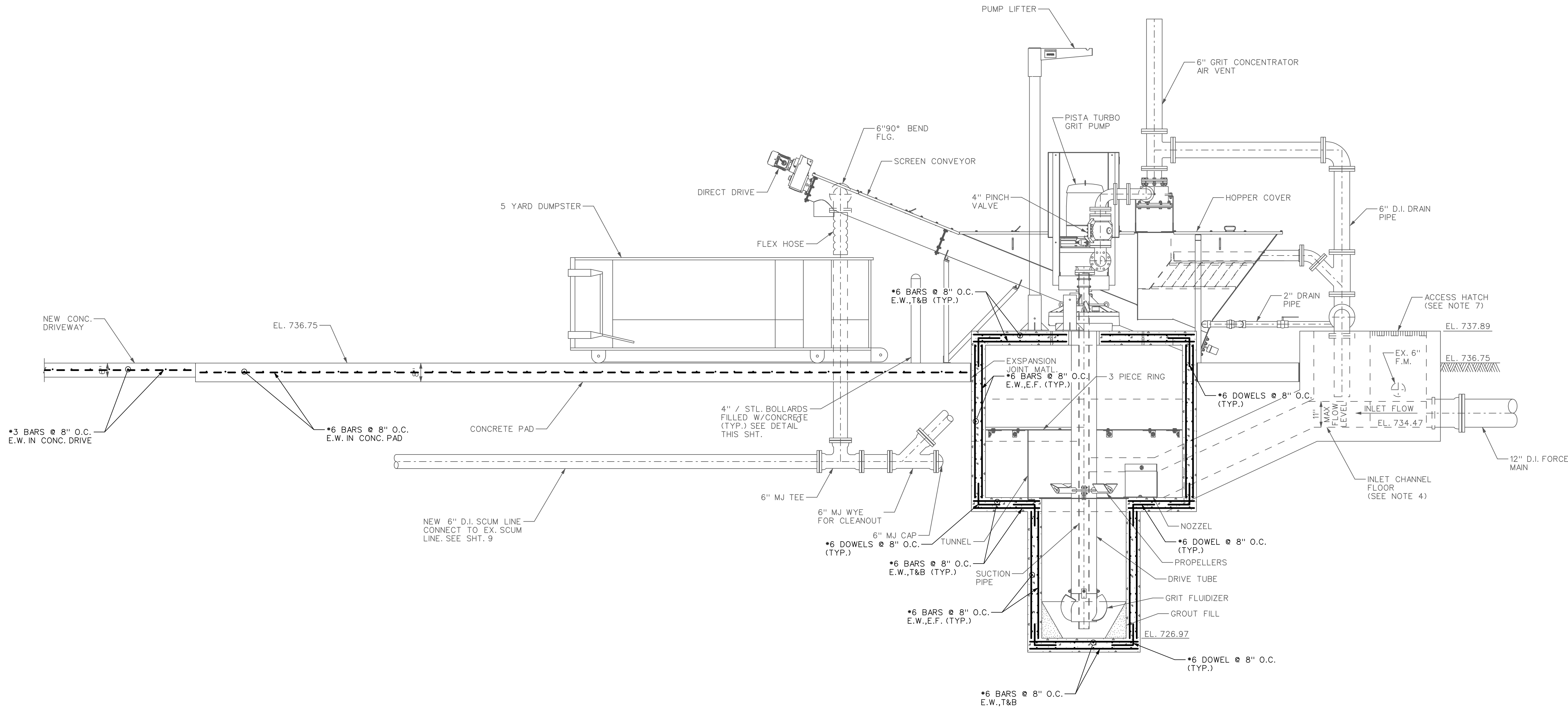
- NOTES:
- EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE $0^{\circ} < 360^{\circ}$ TO MEET SITE REQUIREMENTS, ANGLE IS MEASURE FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION, SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
 - CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
 - VELOCITY UPSTREAM OF THIS POINT MUST BE HIGH ENOUGH TO TRANSPORT GRIT TO THE PISTA WITH MAXIMUM VELOCITY OF 3.5 FT/S.
 - INLET CHANNEL, OUTLET CHANNEL AND TOP OF TUNNEL SHOULD ALL BE AT THE SAME ELEVATION.
 - SEE PISTA CATALOG INDEX FOR JOB SPECIFIC OPTIONS.
 - SEE NOTES ON DESIGN SECTION IN PISTA CATALOG FOR HYDRAULIC REQUIREMENTS.
 - FULL CHANNEL WIDTH ACCES HATCHES ARE RECOMMENDED FOR INLET AND OUTLET CHANNEL INSPECTION.
 - OUTLET IS DESIGNED TO CONTROL THE VELOCITY BY CREATING HEAD LOSS AND REQUIRES A FREE FLOWING FLUME DOWNSTREAM OF THE PISTA ALSO AVAILABLE WITH NO RESTRICTION, BUT THE HYDRAULIC PROFILE MUST MAINTAIN THE REQUIRED INLET VELOCITY FOR PROPER OPERATION. CONSULT FACTORY.
 - RING IS IN THREE PIECES AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
 - TUNNEL FASTENS TO THE CHAMBER FLOOR WITH CONCRETE ANCHORS (NOT BY S&L) AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
 - NOZZEL IS FASTENED IN PLACE VIA CONCRETE ANCHORS (NOT BY S&L).
 - UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5, UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).

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

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of LAFAYETTE, ALABAMA Chambers County, Alabama MILL CREEK WASTEWATER TREATMENT PLANT CWSRF PROJECT NO. CSG10403-05 CONTRACT NO. 2				Utility Engineering Consultants, LLC 100 SOUTHWEST DRIVE SUITE 201 HOMESBORO, AL 36030	
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025		
APPROVED <i>Don B. Butler</i>		REFERENCE LF24144L022.DGN	JOB NO. LF24 144		
NEW GRIT CHAMBER PLAN STRUCTURAL				SHEET 15 OF 32	





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



NOTES:

1. EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE 0° < 360° TO MEET SITE REQUIREMENTS. ANGLE IS MEASURE FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION. SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
2. CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
3. VELOCITY UPSTREAM OF THIS POINT MUST BE HIGH ENOUGH TO TRANSPORT GRIT TO THE PISTA WITH MAXIMUM VELOCITY OF 3.5 FT/S.
4. INLET CHANNEL, OUTLET CHANNEL AND TOP OF TUNNEL SHOULD ALL BE AT THE SAME ELEVATION.
5. SEE PISTA CATALOG INDEX FOR JOB SPECIFIC OPTIONS.
6. SEE NOTES ON DESIGN SECTION IN PISTA CATALOG FOR HYDRAULIC REQUIREMENTS.
7. FULL CHANNEL WIDTH ACCES HATCHES ARE RECOMMENDED FOR INLET AND OUTLET CHANNEL INSPECTION.
8. OUTLET IS DESIGNED TO CONTROL THE VELOCITY BY CREATING HEAD LOSS AND REQUIRES A FREE FLOWING FLUME DOWNSTREAM OF THE PISTA. ALSO AVAILABLE WITH NO RESTRICTION, BUT THE HYDRAULIC PROFILE MUST MAINTAIN THE REQUIRED INLET VELOCITY FOR PROPER OPERATION. CONSULT FACTORY.
9. RING IS IN THREE PIECES AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
10. TUNNEL FASTENS TO THE CHAMBER FLOOR WITH CONCRETE ANCHORS (NOT BY S&L) AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
11. NOZZEL IS FASTENED IN PLACE VIA CONCRETE ANCHORS (NOT BY S&L).
12. UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5. UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
NEW GRIT CHAMBER
SECTION "A"
STRUCTURAL**

		Utility Engineering Consultants, LLC		100 SOUTHWEST DRIVE SUITE 201 HOMESBORO, AL 36030	
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025		
APPROVED 		REFERENCE LF24144L029.DGN	JOB NO. LF24 144		
SHEET 16 OF 32					






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

1. EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE 0° < 360° TO MEET SITE REQUIREMENTS, ANGLE IS MEASURED FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION. SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
2. CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
3. VELOCITY UPSTREAM OF THIS POINT MUST BE HIGH ENOUGH TO TRANSPORT GRIT TO THE PISTA WITH MAXIMUM VELOCITY OF 3.5 FT/S.
4. INLET CHANNEL, OUTLET CHANNEL AND TOP OF TUNNEL SHOULD ALL BE AT THE SAME ELEVATION.
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6. SEE NOTES ON DESIGN SECTION IN PISTA CATALOG FOR HYDRAULIC REQUIREMENTS.
7. FULL CHANNEL WIDTH ACCESS HATCHES ARE RECOMMENDED FOR INLET AND OUTLET CHANNEL INSPECTION.
8. OUTLET IS DESIGNED TO CONTROL THE VELOCITY BY CREATING HEAD LOSS AND REQUIRES A FREE FLOWING FLUME DOWNSTREAM OF THE PISTA, ALSO AVAILABLE WITH A RESTRICTION BUT THE HYDRAULIC PROFILE MUST MAINTAIN THE REQUIRED INLET VELOCITY FOR PROPER OPERATION. CONSULT FACTORY.
9. RING IS IN THREE PIECES AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
10. TUNNEL FASTENS TO THE CHAMBER FLOOR WITH CONCRETE ANCHORS (NOT BY S&L) AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
11. NOZZLE IS FASTENED IN PLACE VIA CONCRETE ANCHORS (NOT BY S&L).
12. UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5. UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).

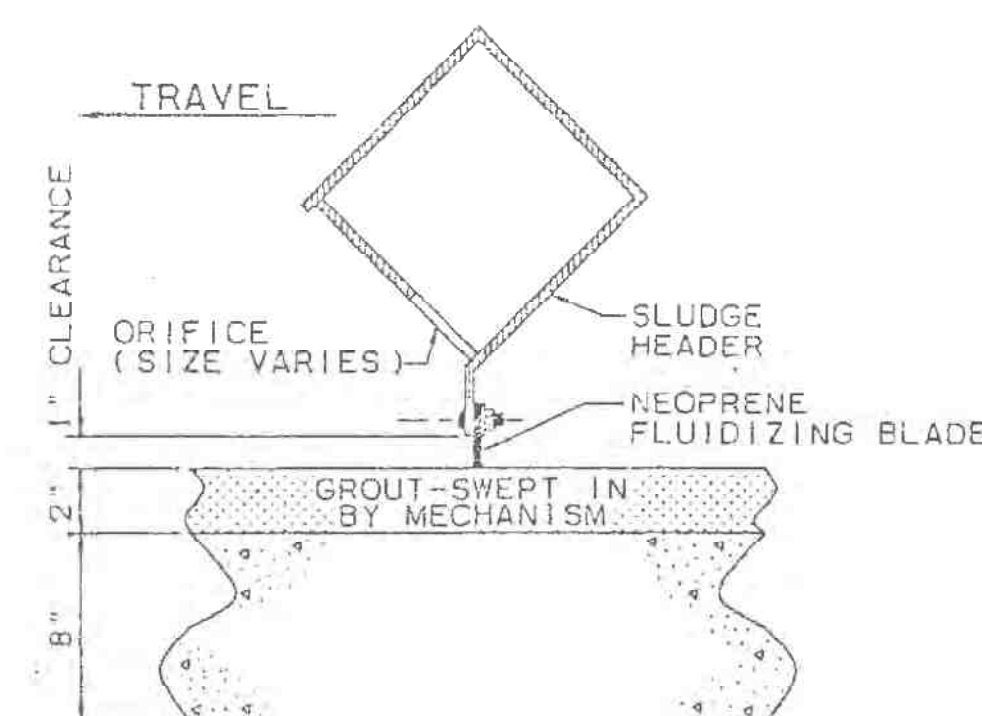
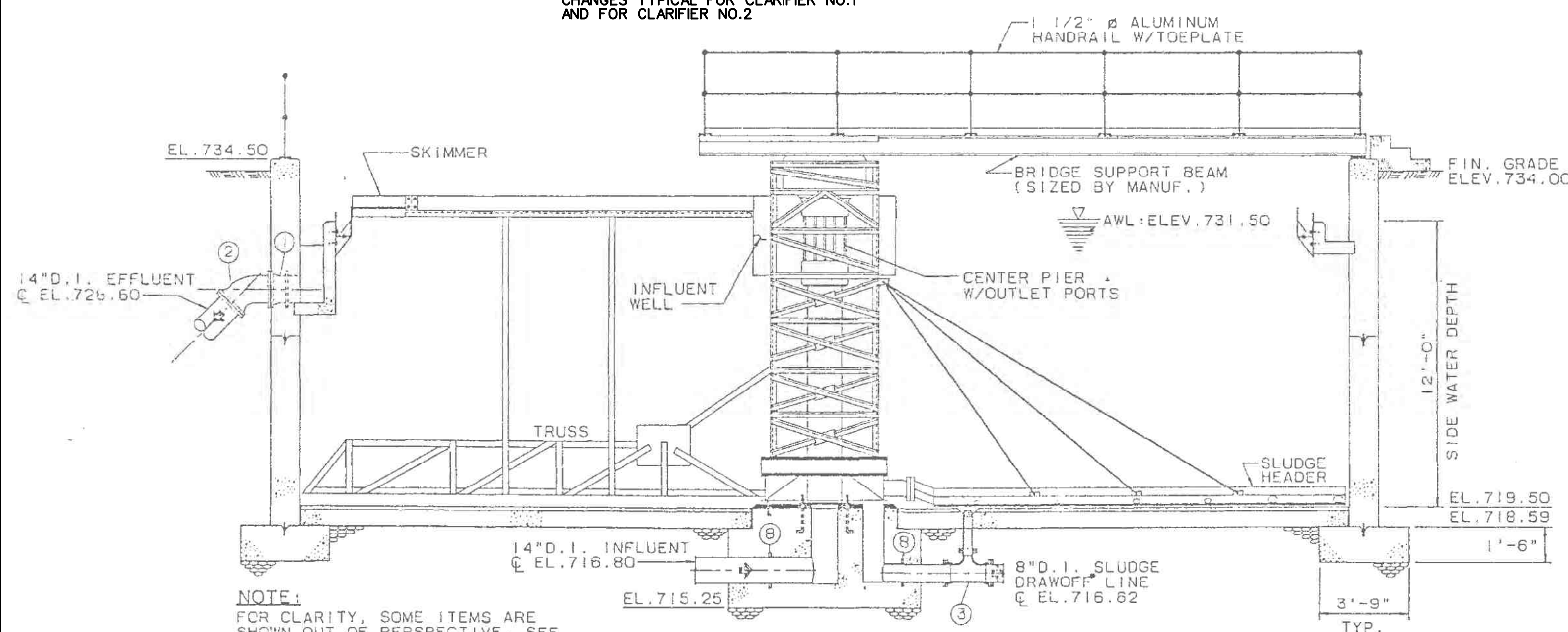
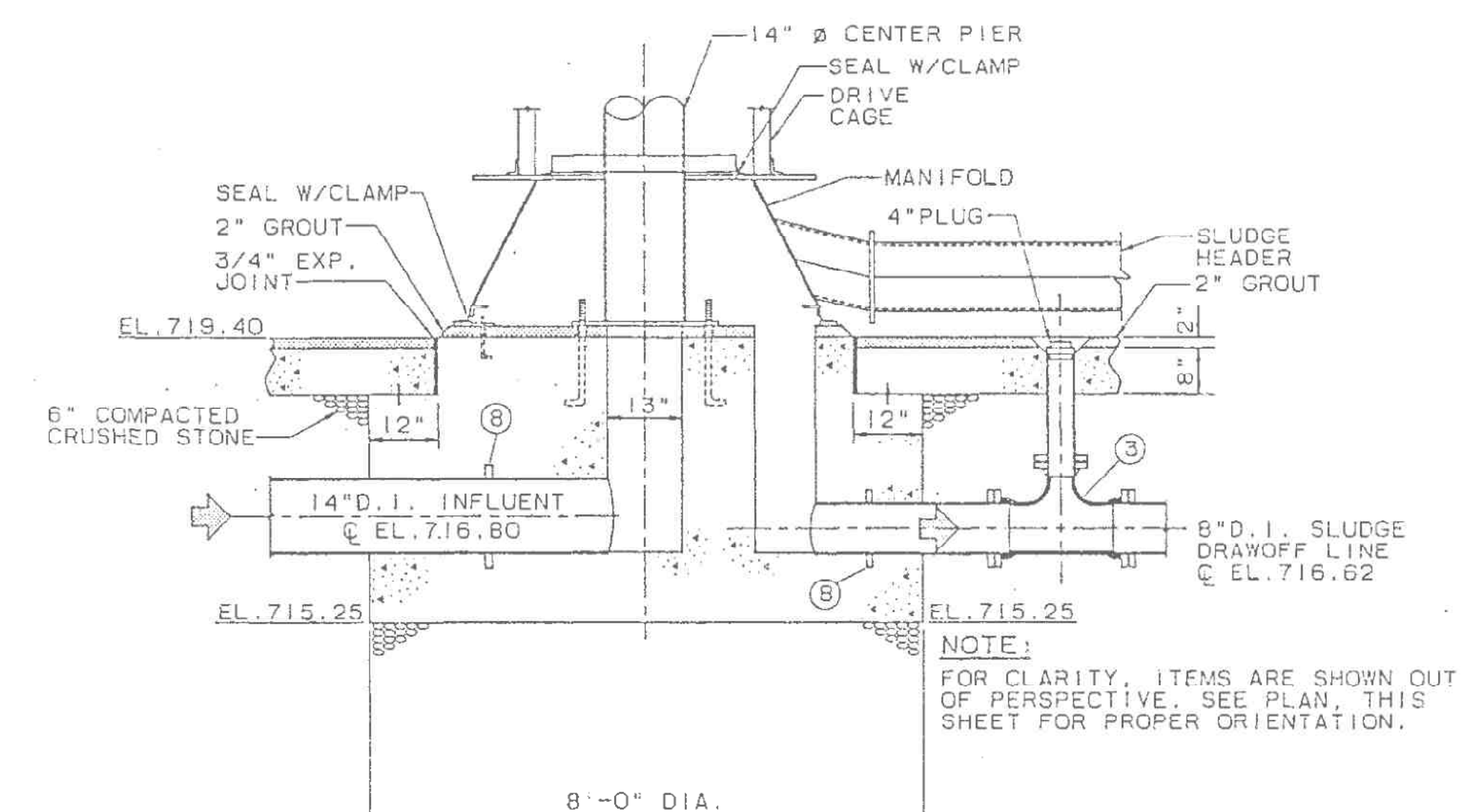
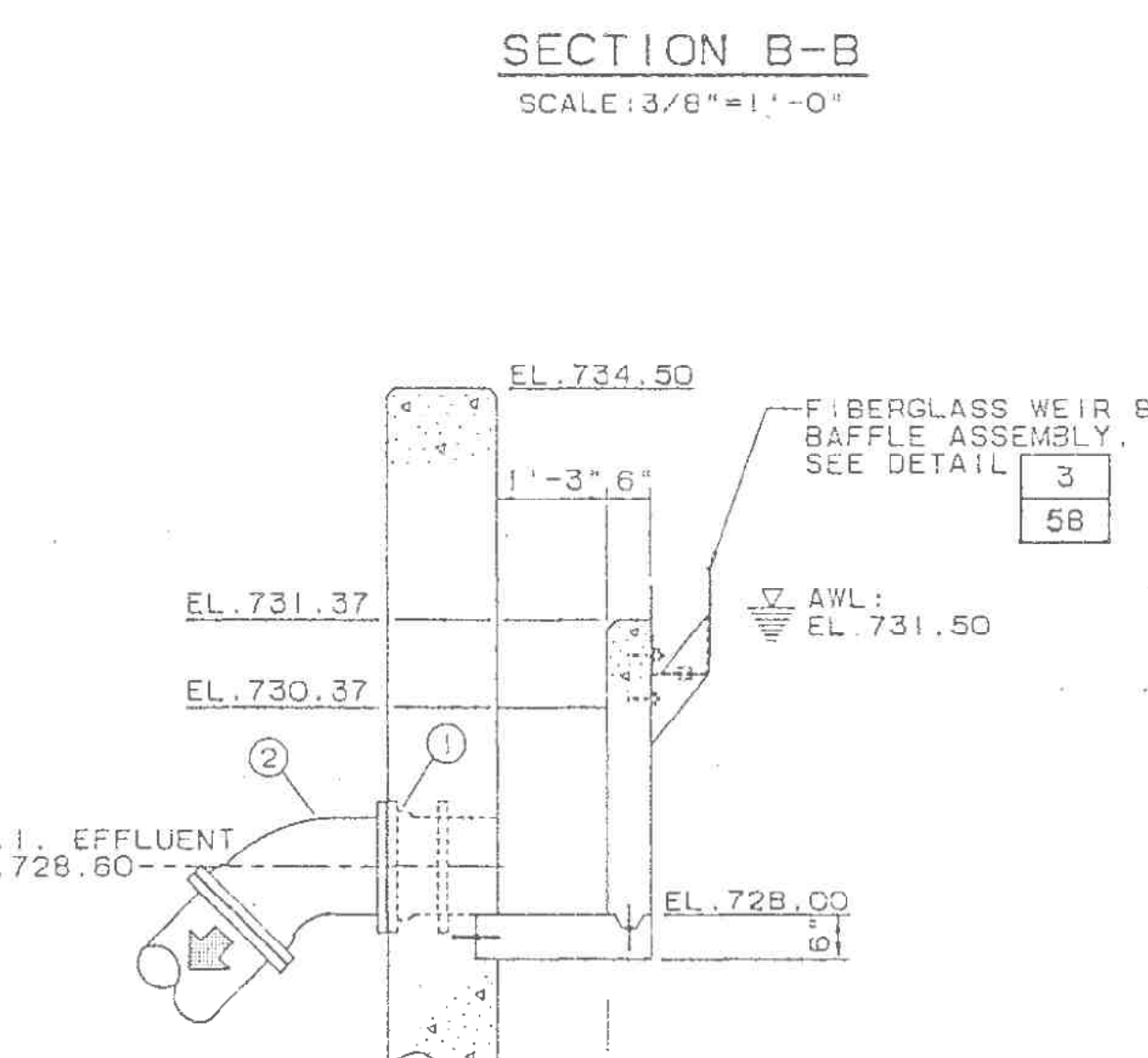
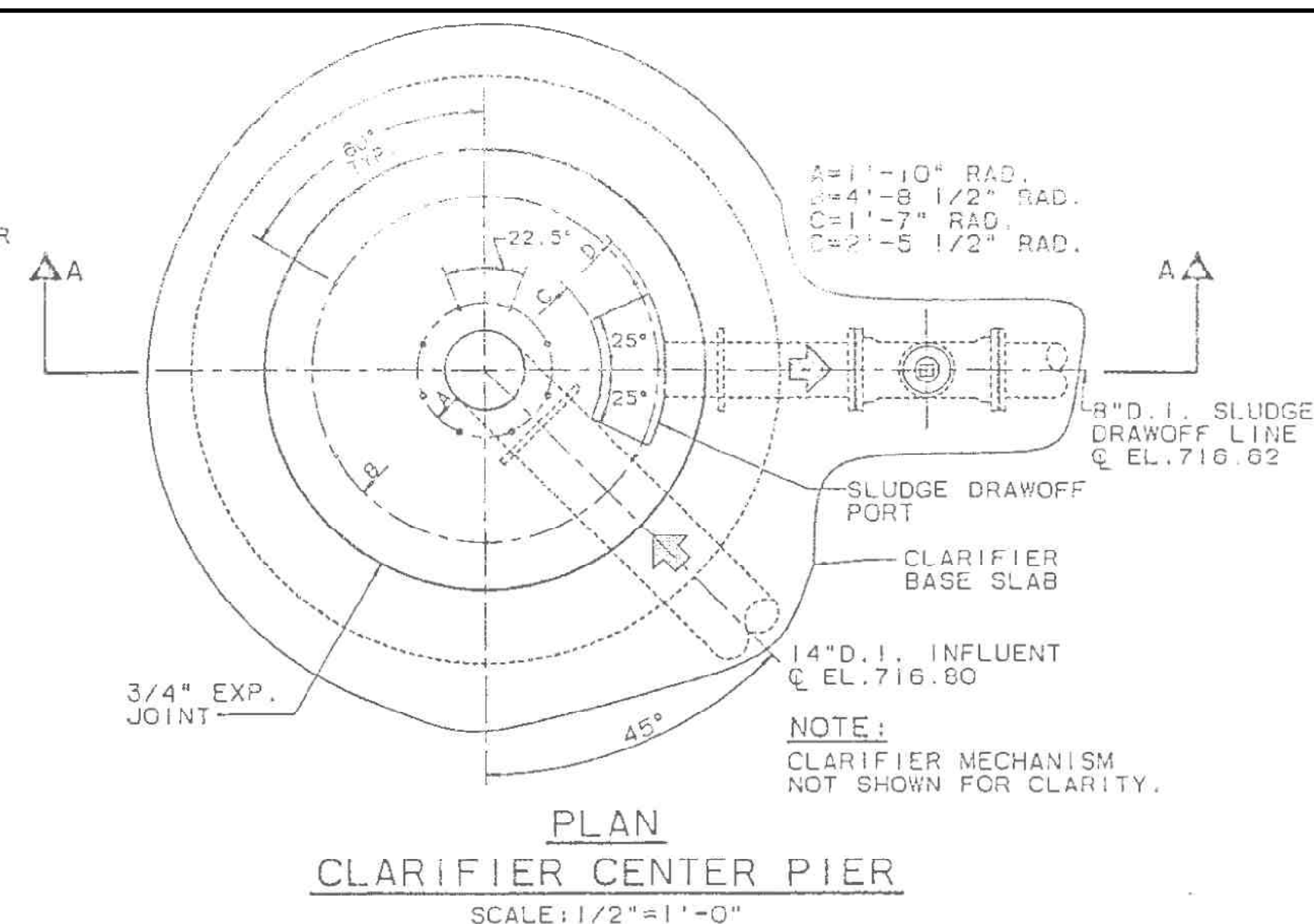
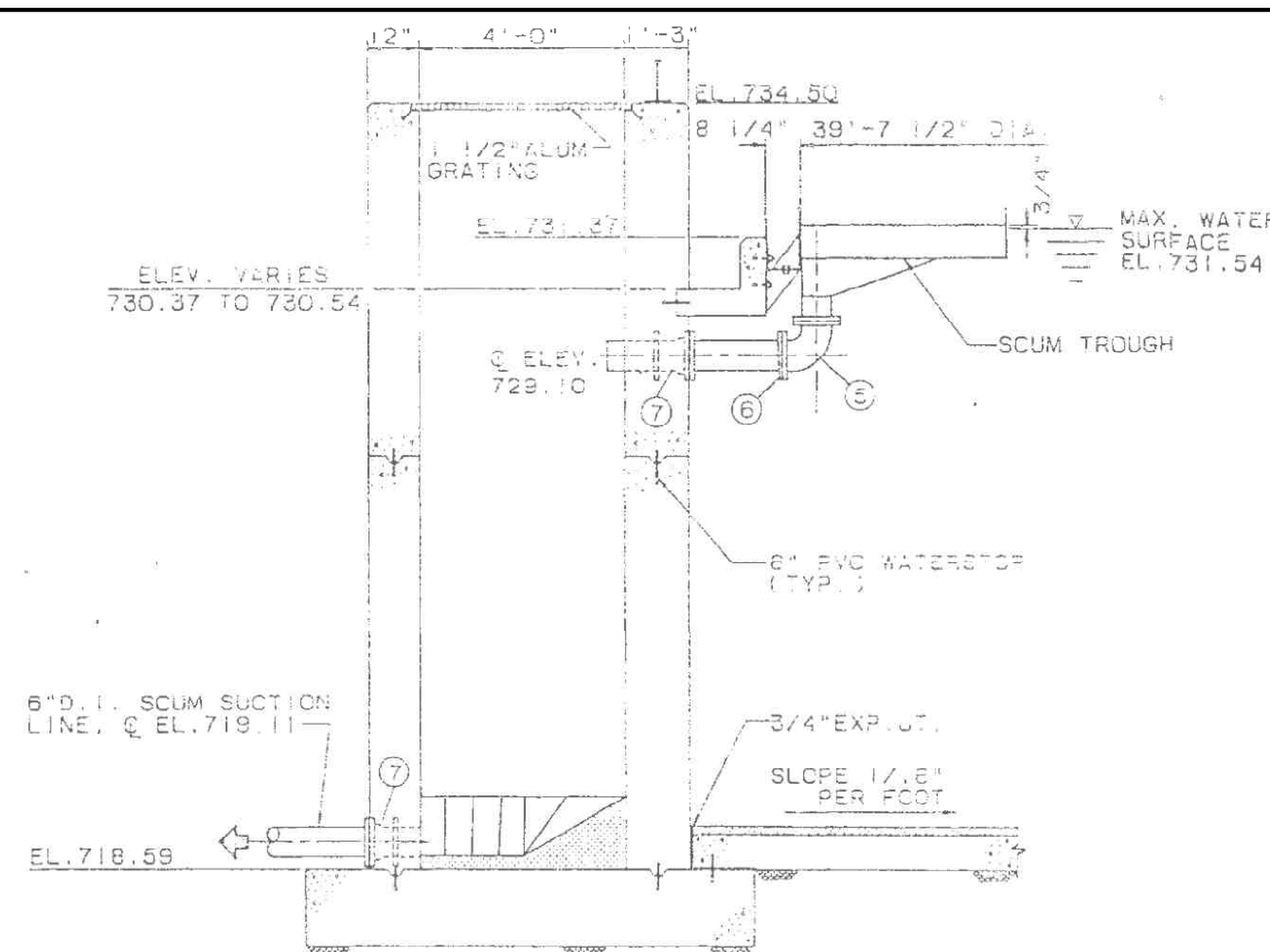
The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT**
CWSRF PROJECT NO.CSG10403-05
CONTRACT NO.2
**NEW GRIT CHAMBER
SECTION "B"
STRUCTURAL**



**Utility
Engineering
Consultants, LLC**

30 SOUTHWEST DRIVE
SUITE 200
KNOXVILLE, TN 37309

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Don & Betty</i>		REFERENCE LF24144L030.DGN	JOB NO. LF24 144
		SHEET <u>17</u> OF <u>32</u>	



FITTINGS LIST

- ① 14" WALL PIPE, MJ-FLG-PE
- ② 14" 45° BEND, MJ-PE
- ③ 8"x8"x4" TEE, MJ-MJ-MJ
- ④ 8" 90° BEND, MJ-MJ
- ⑤ 6" 90° BEND, FLG-FLG
- ⑥ 6" BEVELED FLANGE
- ⑦ 6" WALL PIPE, MJ-FLG-PE
- ⑧ WELDED ON WATERSTOP



The City Of
LAFAYETTE, ALABAMA

Chambers County, Alabama

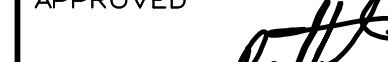
MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO.CSG10403-05
CONTRACT NO.2

TYPICAL EX. CLARIFIER MECHANICAL

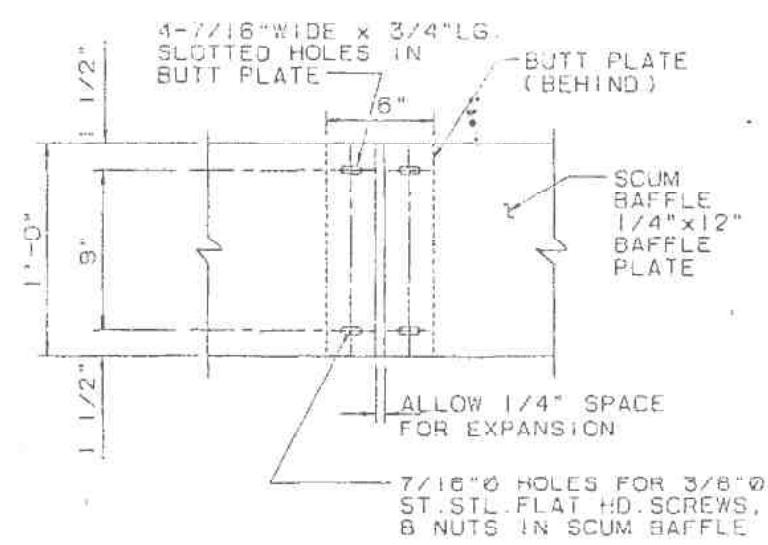


Utility Engineering Consultants, LLC

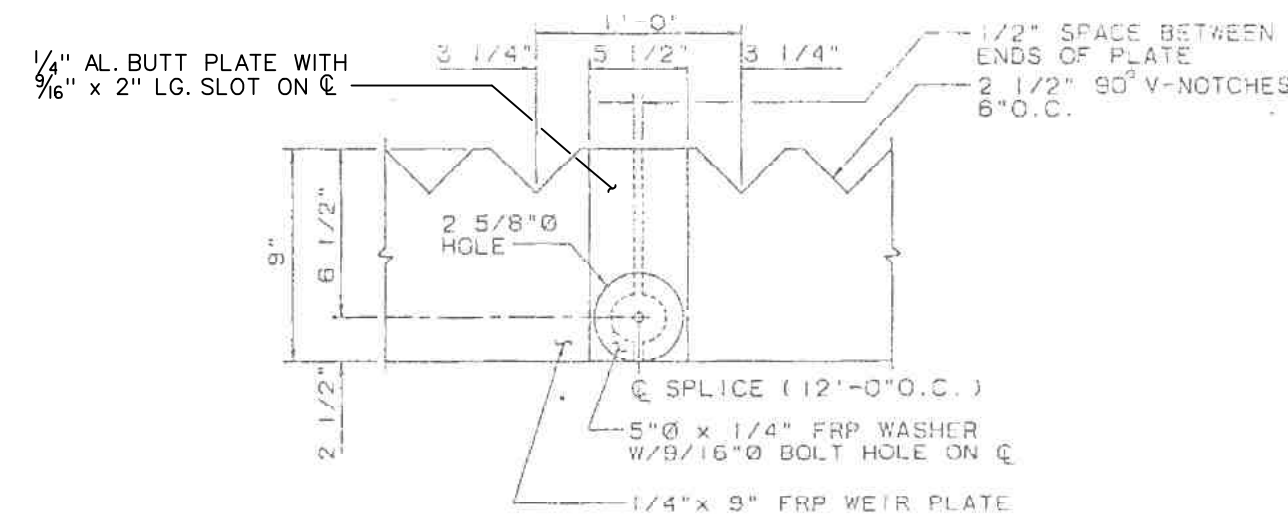
130 SOUTHCREST DRIVE
SUITE 100
HOMESWOOD, AL 35206

DESIGNED DBB		DRAWN LTH		SCALE AS NOTED		DATE FEB., 2025	
APPROVED		REFERENCE LF24144.L026.DGN			JOB NO. LF24 144		
		SHEET <u>18</u> OF <u>32</u>					

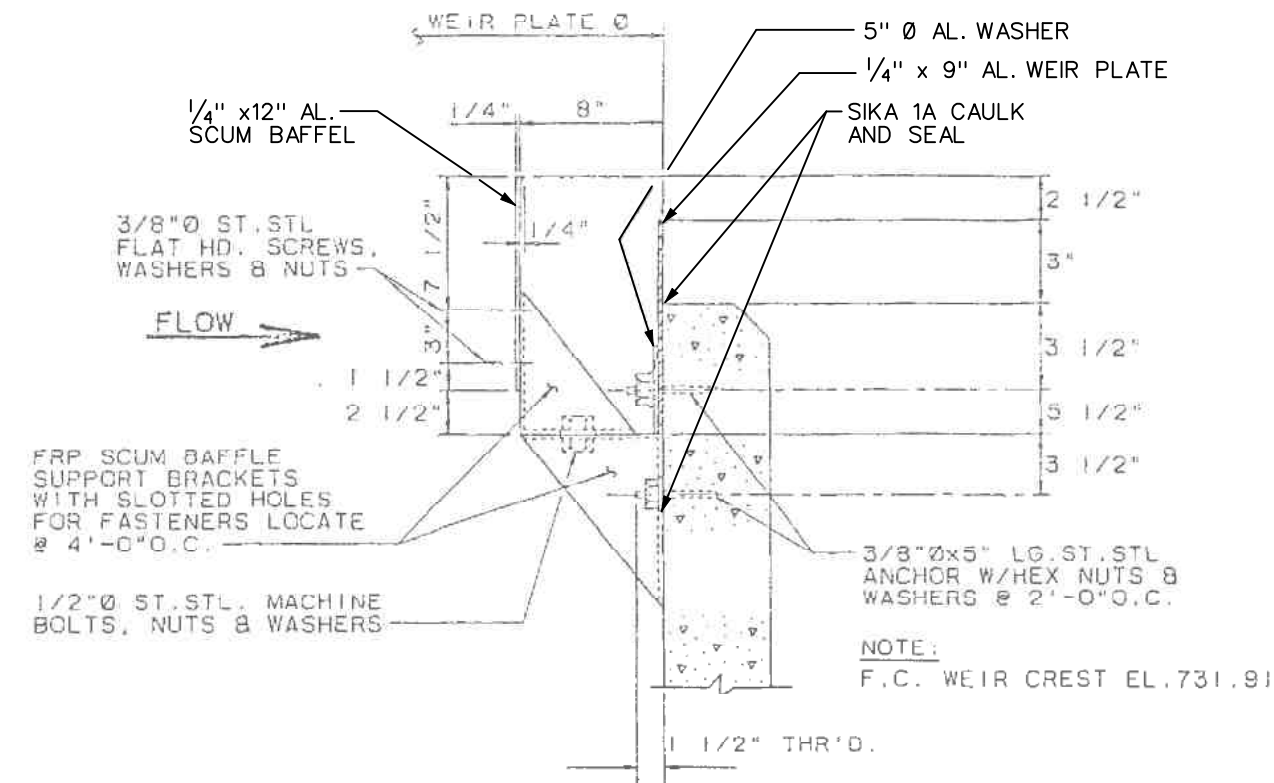
NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.



**ELEVATION
SCUM BAFFLE SUPPORT**

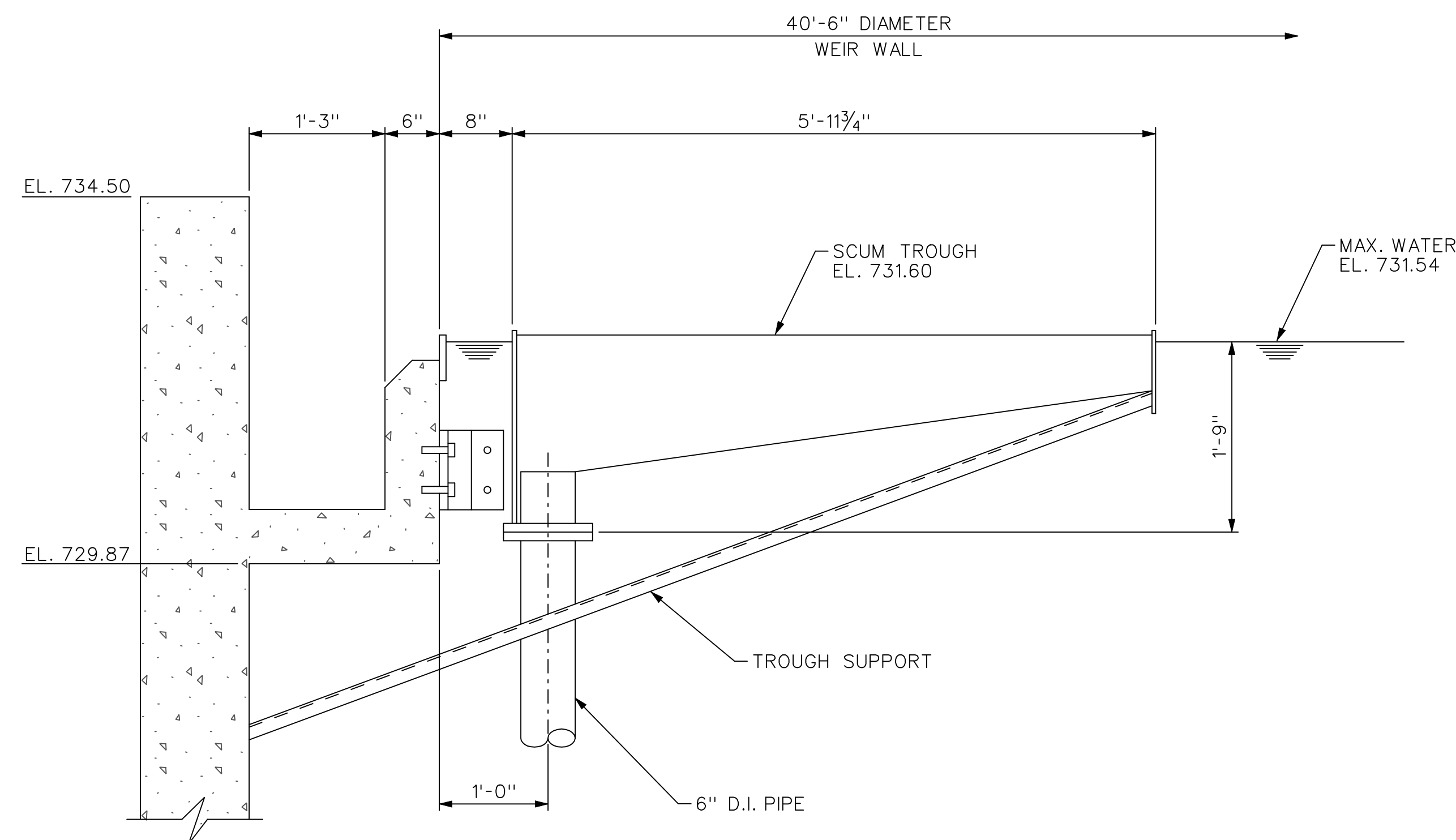


**ELEVATION
WEIR PLATE SPLICER**



SECTION

EFFLUENT WEIR & SCUM BAFFLE
NOT TO SCALE
(TO BE REMOVED & REPLACED ON EACH CLARIFIER)



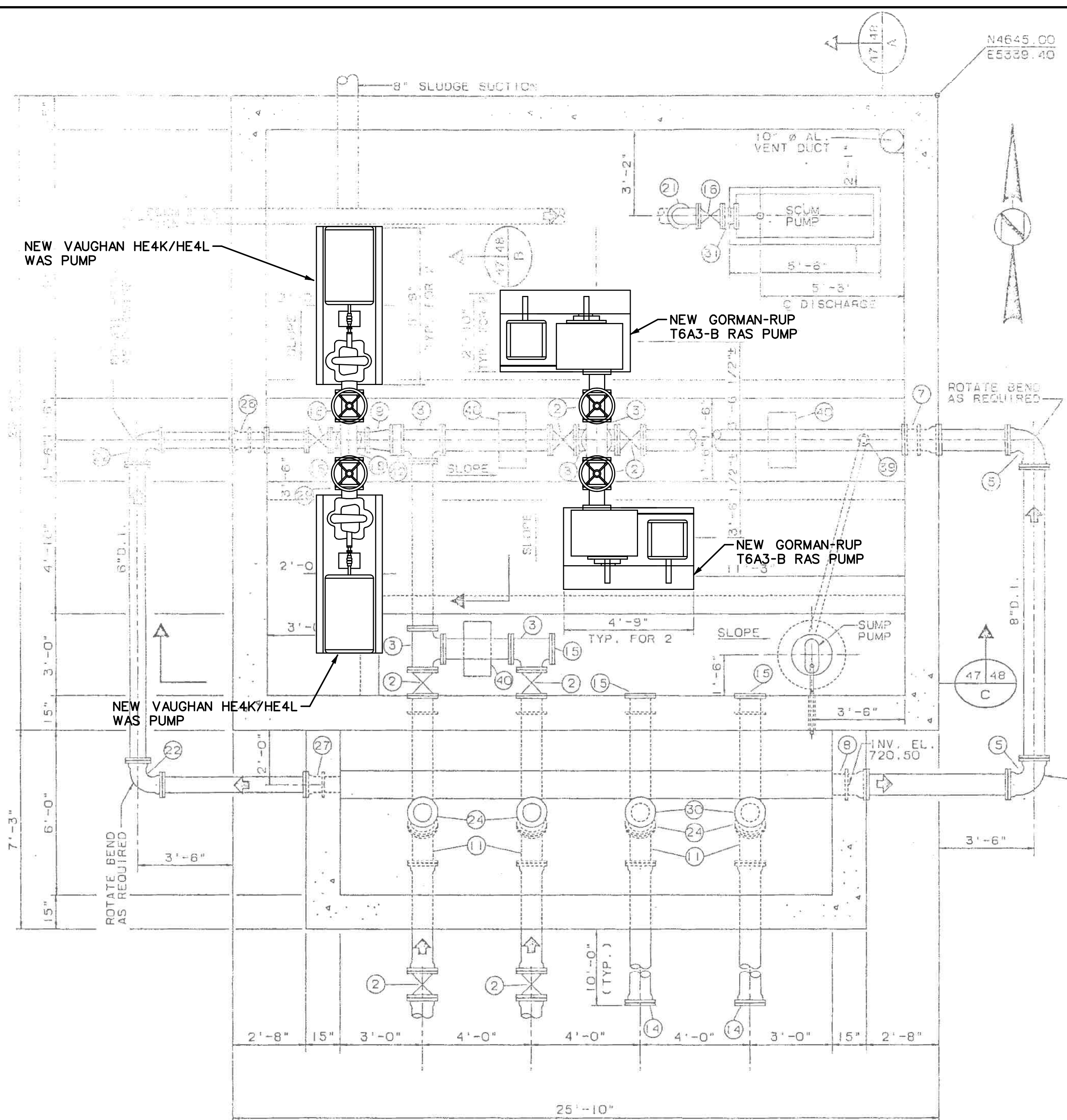
SCUM TROUGH DETAIL
NOT TO SCALE
(TO BE REMOVED & REPLACED ON EACH CLARIFIER)

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of LAFAYETTE, ALABAMA Chambers County, Alabama MILL CREEK WASTEWATER TREATMENT PLANT CWSRF PROJECT NO. CSG10403-05 CONTRACT NO. 2				 Utility Engineering Consultants, LLC <small>130 SOUTHWEST DRIVE SUITE 100 HOMERWOOD, AL 35899</small>	
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025		
APPROVED <i>Due B. Butts</i>		REFERENCE LF24144L027.DGN	JOB NO. LF24 144		
		SHEET 19 OF 32			





NEW VAUGHAN HE4K/HE4L WAS PUMP

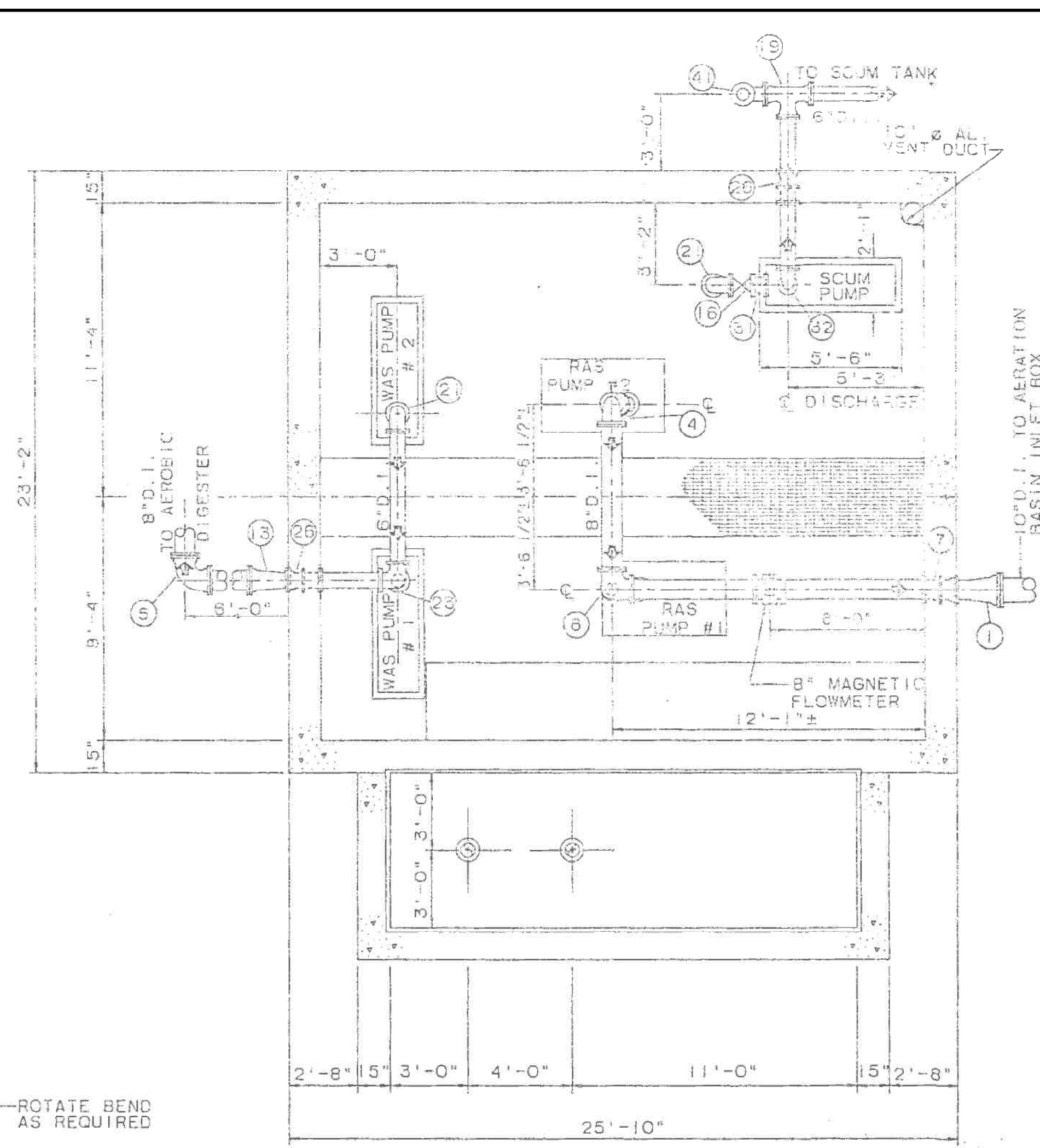
NEW GORMAN-RUP T6A3-B RAS PUMP

NEW GORMAN-RUP T6A3-B RAS PUMP

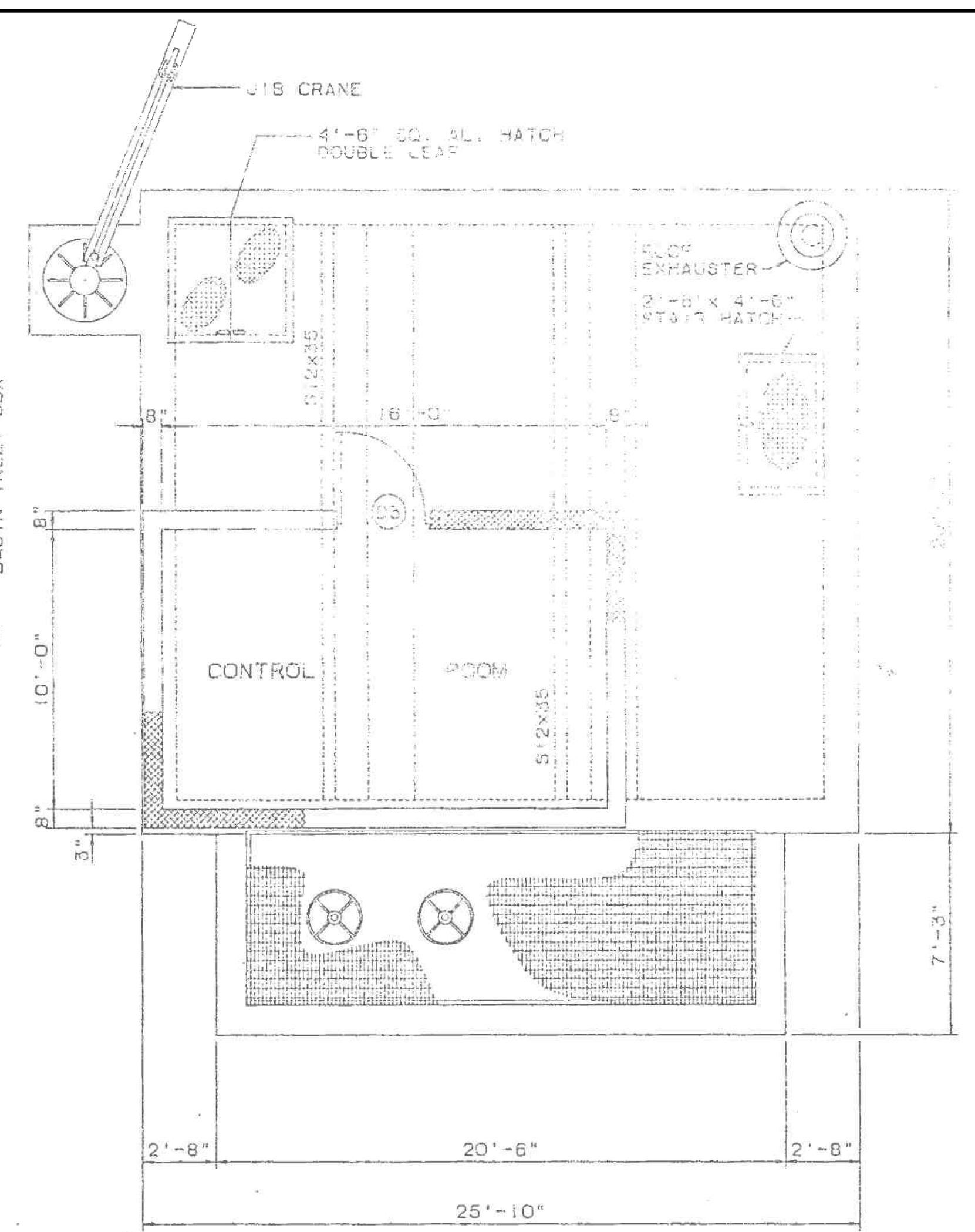
NEW VAUGHAN HE4K/HE4L WAS PUMP

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

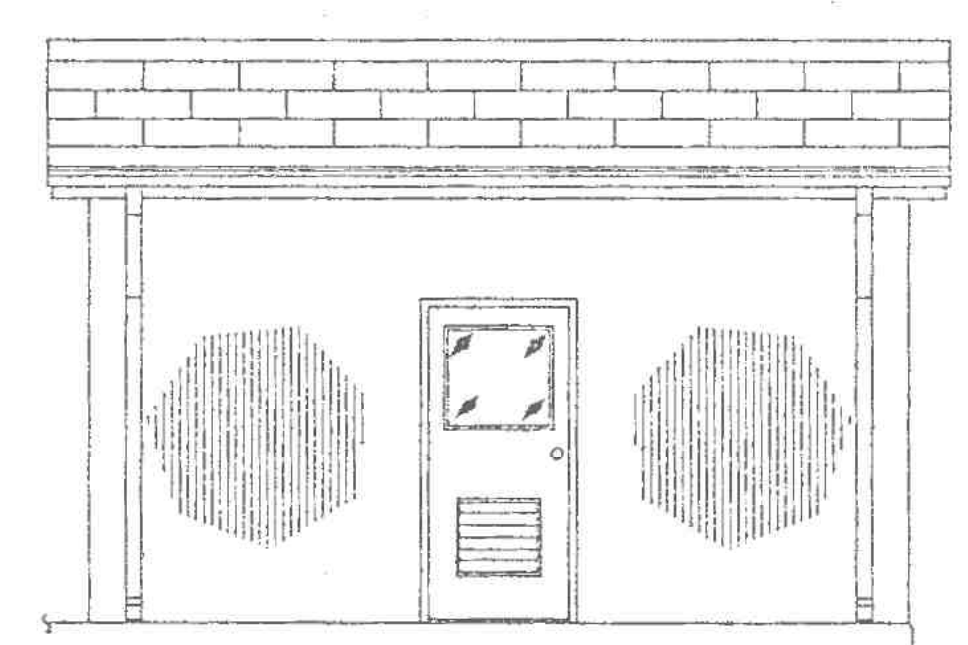
NOTE:
REPLACE THE 2 EXISTING WAS PUMPS
AND ALSO THE 2 EXISTING RAS PUMPS



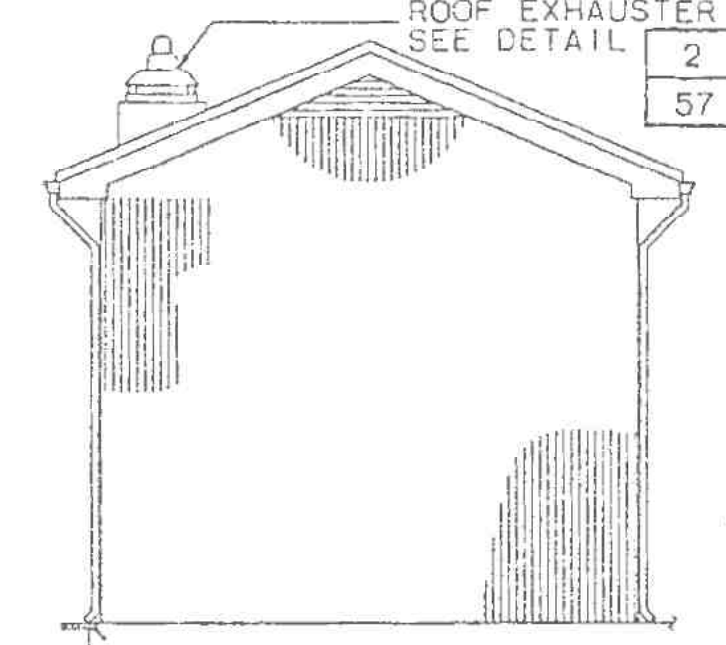
PLAN @ ELEV. 730.00
SCALE: 1/4"=1'-0"



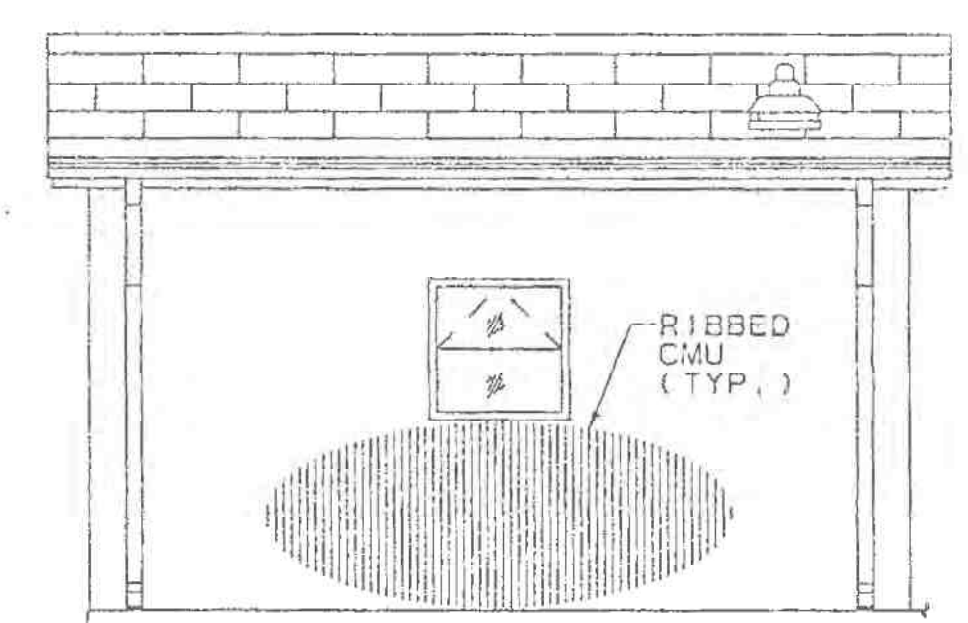
TOP PLAN
SCALE: 1/4"=1'-0"



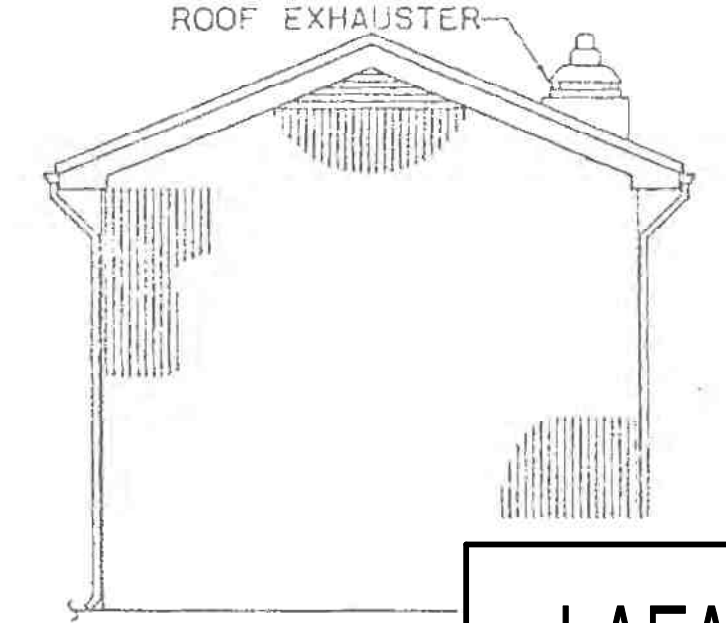
NORTH ELEVATION
SCALE: 1/4"=1'-0"



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



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



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

FITTINGS LIST

- | | |
|---|---|
| 1. 10"x 8" REDUCER, LEMJ | 22. 6" 90° BEND, MJ-MJ |
| 2. 8" PLUG VALVE | 23. 6" SIDE OUTLET 90° BEND, ALL FLG |
| 3. 8" TEE, ALL FLG | 24. 6" 45° BEND, PE-MJ |
| 4. 8"x 6" 90° BEND, FLG-FLG | 25. 6" 45° BEND, FLG-FLG |
| 5. 8" 90° BEND, MJ-MJ | 26. 6" WALL PIPE, MJ-FLG-FLG |
| 6. 8"x 6" SIDE OUTLET 90° BEND, ALL FLG | 27. 6" WALL PIPE, MJ-FLG-PE |
| 7. 6" WALL PIPE, MJ-FLG-FLG | 28. 6"x 4" ECCENTRIC FLEX COUPLING, FLG-FLG |
| 8. 8" WALL PIPE, MJ-FLG-PE | 29. 6" FLANGE FILLER |
| 9. 8"x 6" REDUCER, FLG-FLG | 30. 6" BLIND FLANGE |
| 10. 8"x 6" ECCENTRIC FLEX COUPLING, FLG-FLG | 31. 6" FLEX COUPLING, FLG-FLG |
| 11. 8"x 6" WYE, MJ-PE-MJ | 32. 6"x 4" 90° BEND, FLG-FLG |
| 12. OMITTED | 33. 6" CROSS, ALL FLG |
| 13. 8"x 6" REDUCER, LEMJ | 34. 4" PLUG VALVE, FLG |
| 14. 8" PLUG, MJ | 35. 4" BALL CHECK VALVE, FLG |
| 15. 8" BLIND FLANGE | 36. 4" 90° BASE BEND, F |
| 16. 6" PLUG VALVE, FLG | 37. 4"x3" FLEX COUPLING |
| 17. 6" SWING CHECK VALVE, FLG | 38. WELDED ON PIPE FLANGE |
| 18. 6" TEE, ALL FLG | 39. 3" FLOOR DRAIN |
| 19. 6" TEE, ALL MJ | 40. CONCRETE PIPE SUPPORT |
| 20. 6" 90° BASE BEND, FLG-FLG | 41. CLEANOUT |
| | 42. 6" FLANGE FILLER |

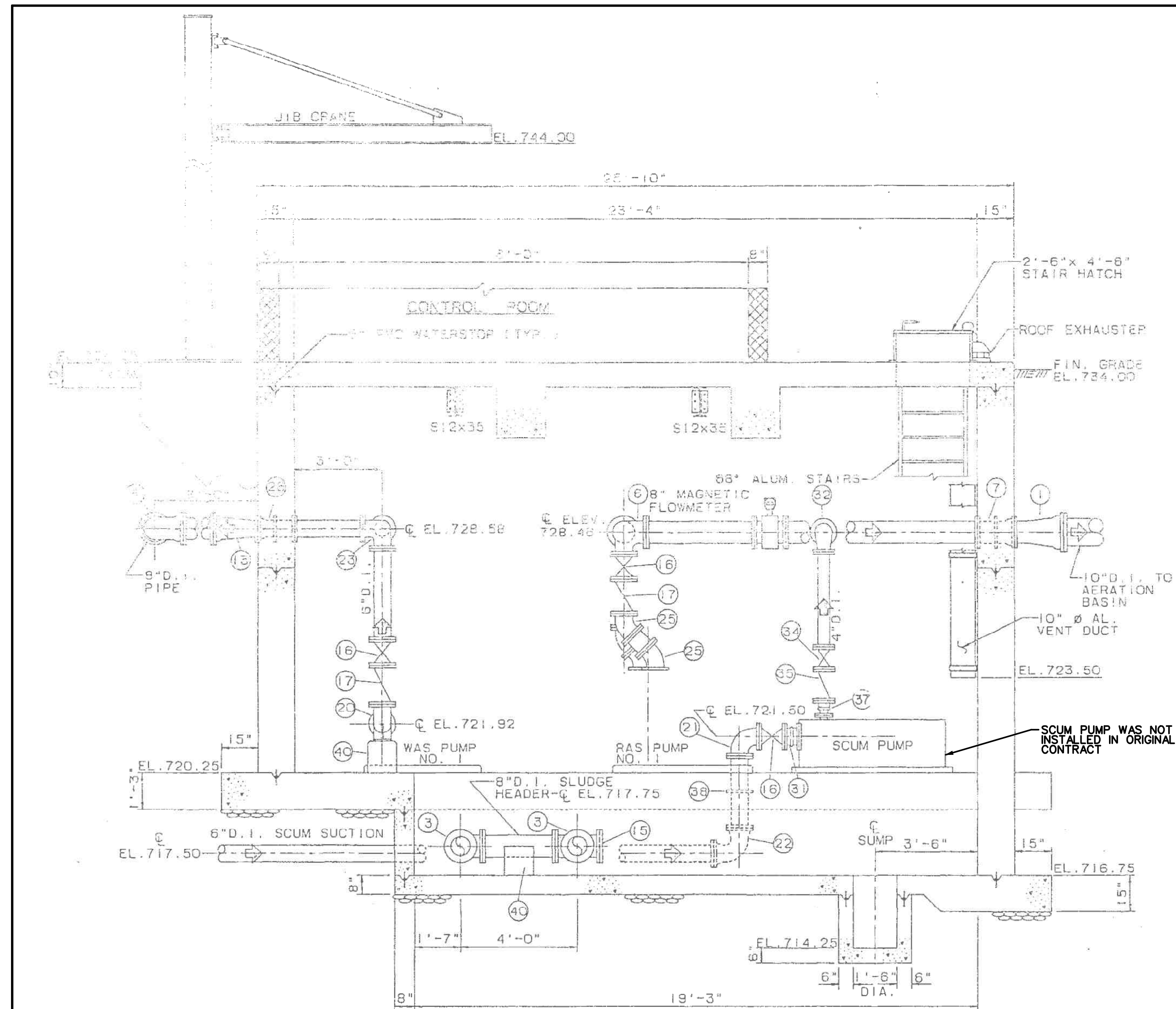
The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
EXISTING
RAS/WAS PUMP STATION
PLANS & ELEVATIONS

Utility Engineering Consultants, LLC
130 SOUTHWEST DRIVE
SUITE 100
HOMESBORO, AL 35029

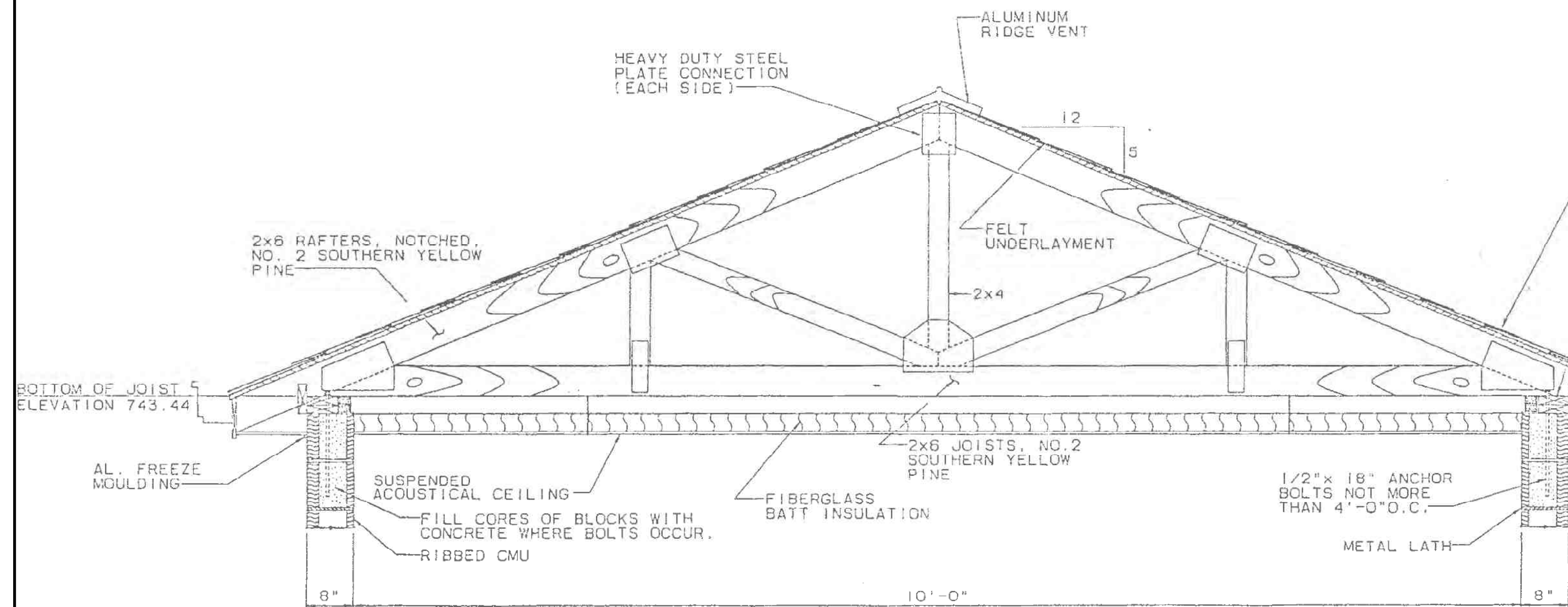
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due B. Butts</i>	REFERENCE LF24144L021.DGN	JOB NO. LF24 144	
SHEET 20 OF 32			

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY
REVISIONS			

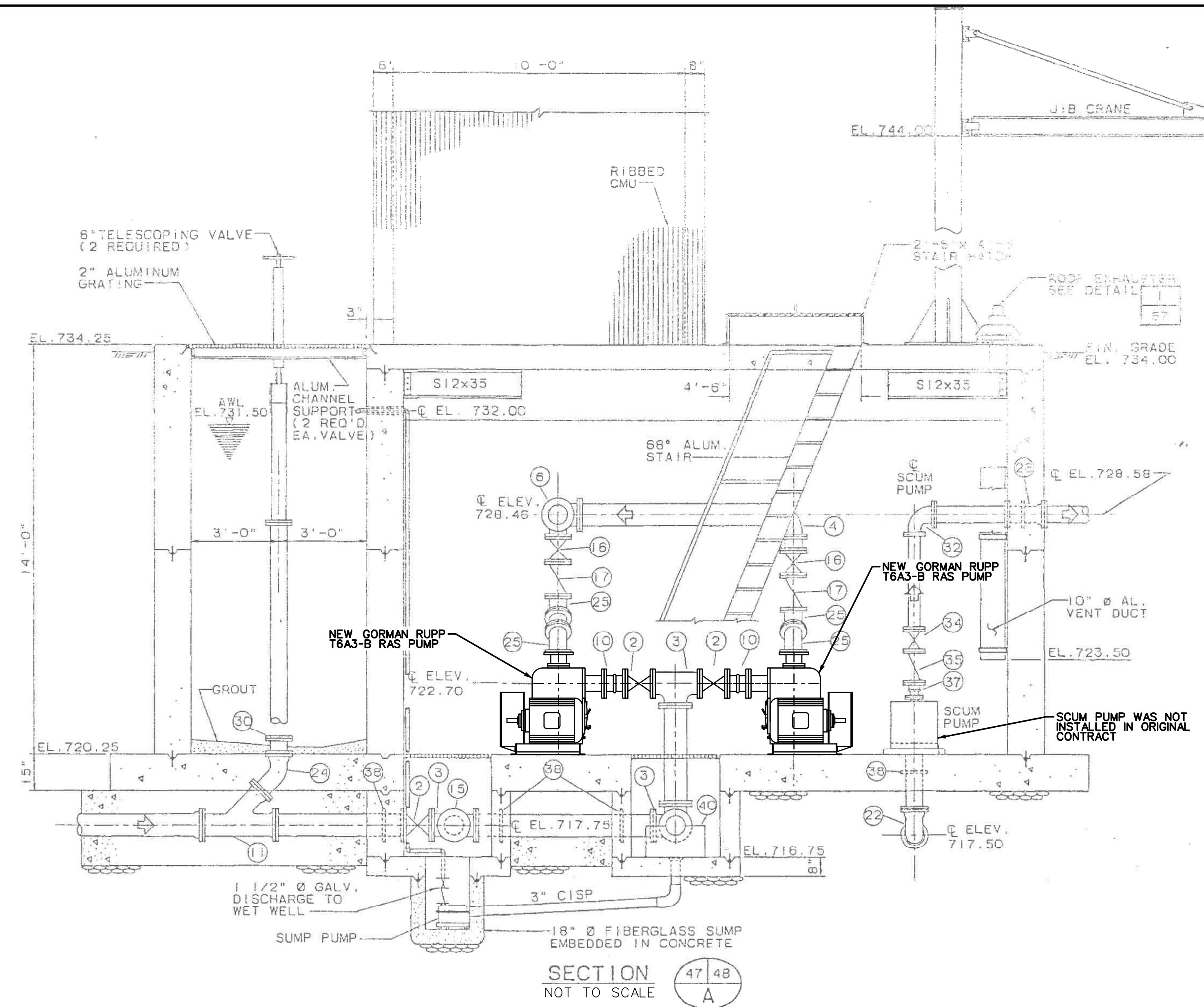


SECTION 47/48
C
NOT TO SCALE

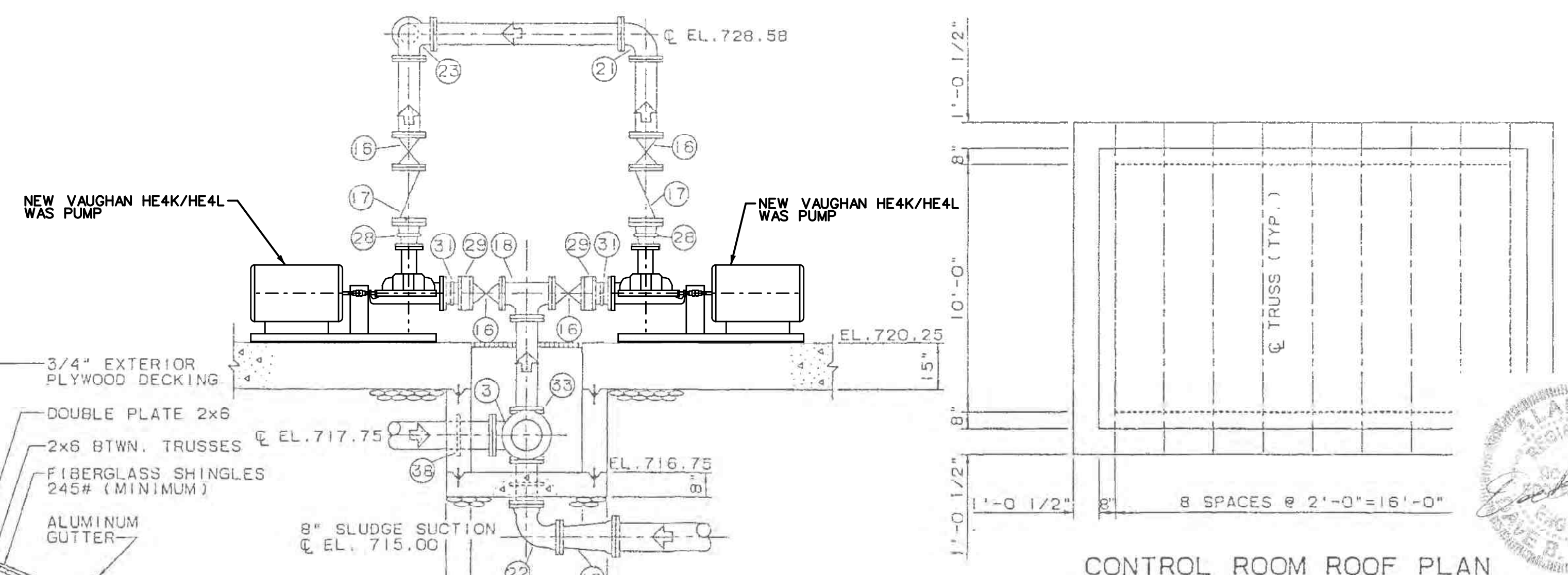


ROOF TRUSS DETAIL
NOT TO SCALE

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.



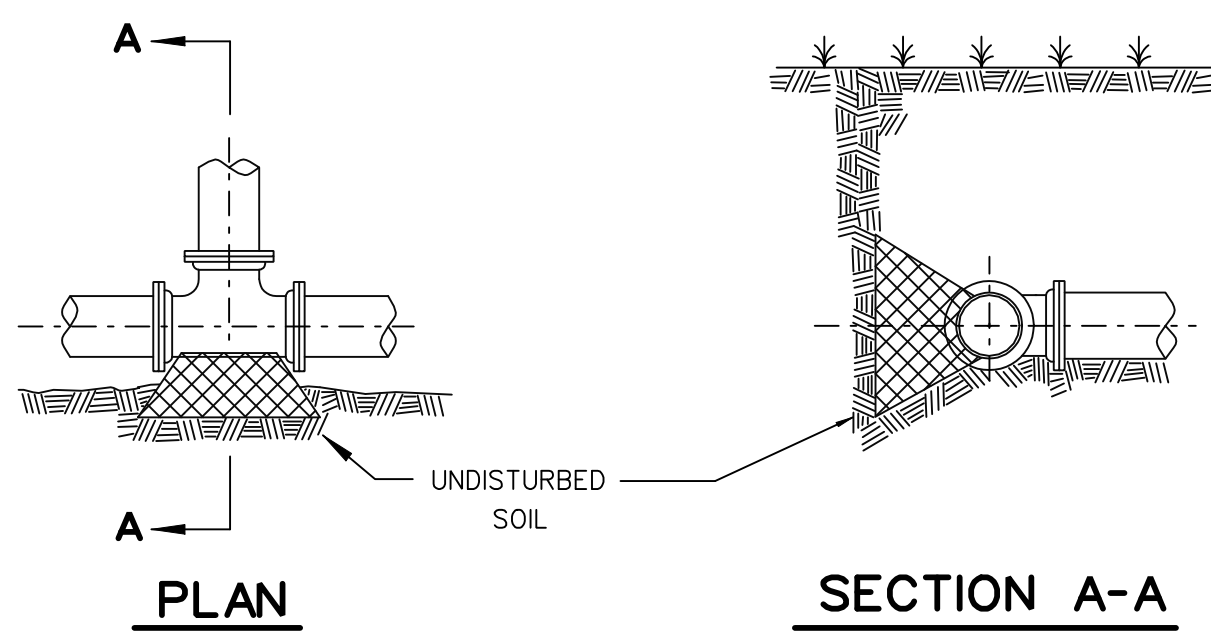
SECTION 47/48
A
NOT TO SCALE



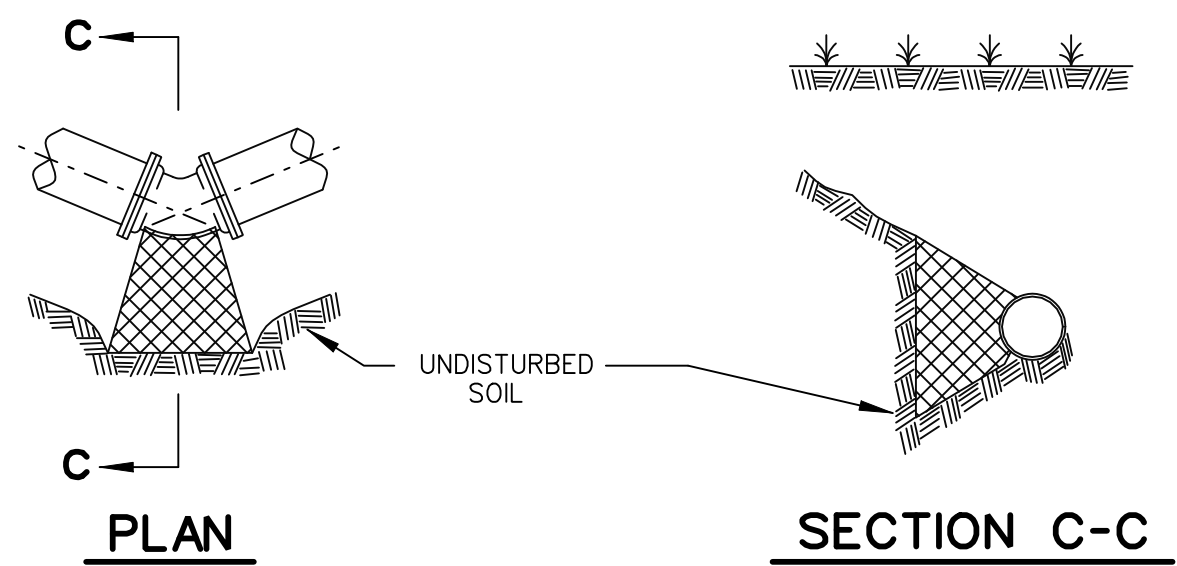
CONTROL ROOM ROOF PLAN

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
EXISTING
RAS/WAS PUMP STATION
SECTIONS AND DETAIL**

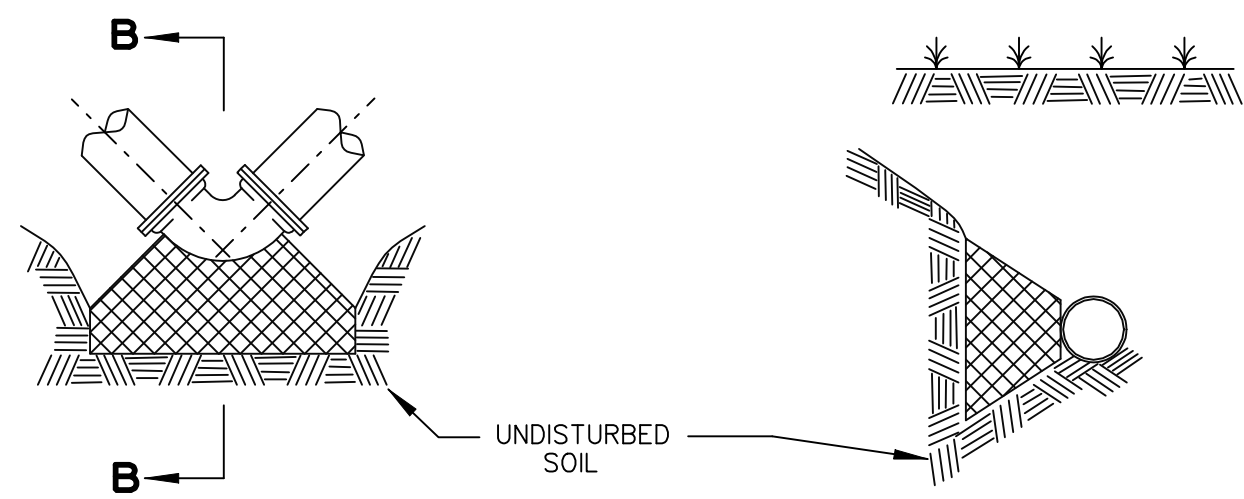
Utility Engineering Consultants, LLC		130 SOUTHWEST DRIVE SUITE 100 HOMESBORO, AL 35029	
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due B. Butts</i>	REFERENCE LF24144L033.DGN	JOB NO. LF24 144	
SHEET 21 OF 32			



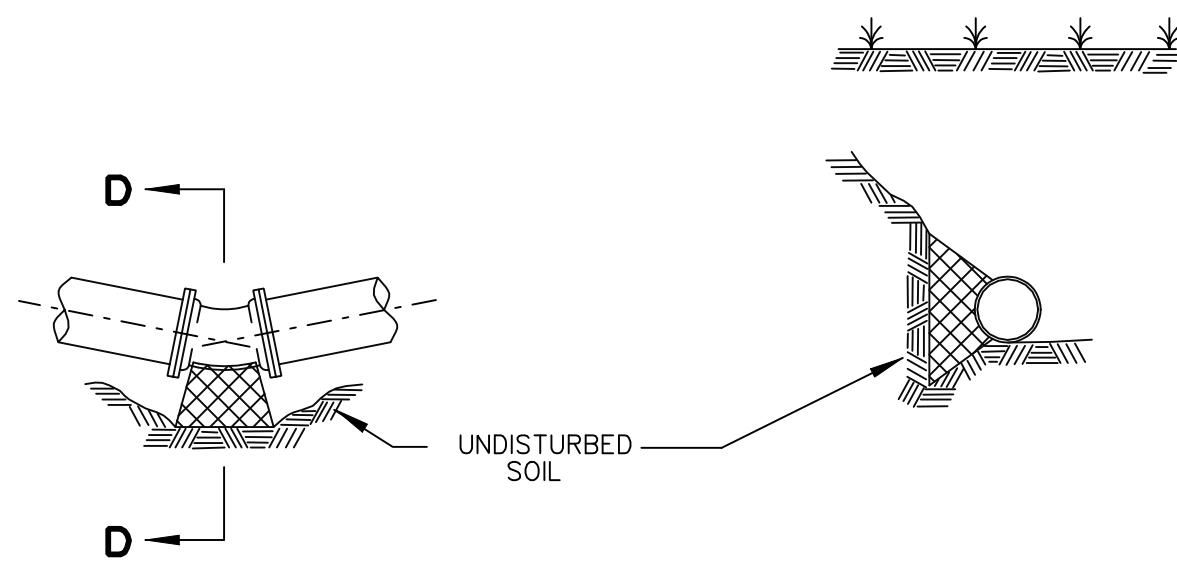
TEES



45° BENDS

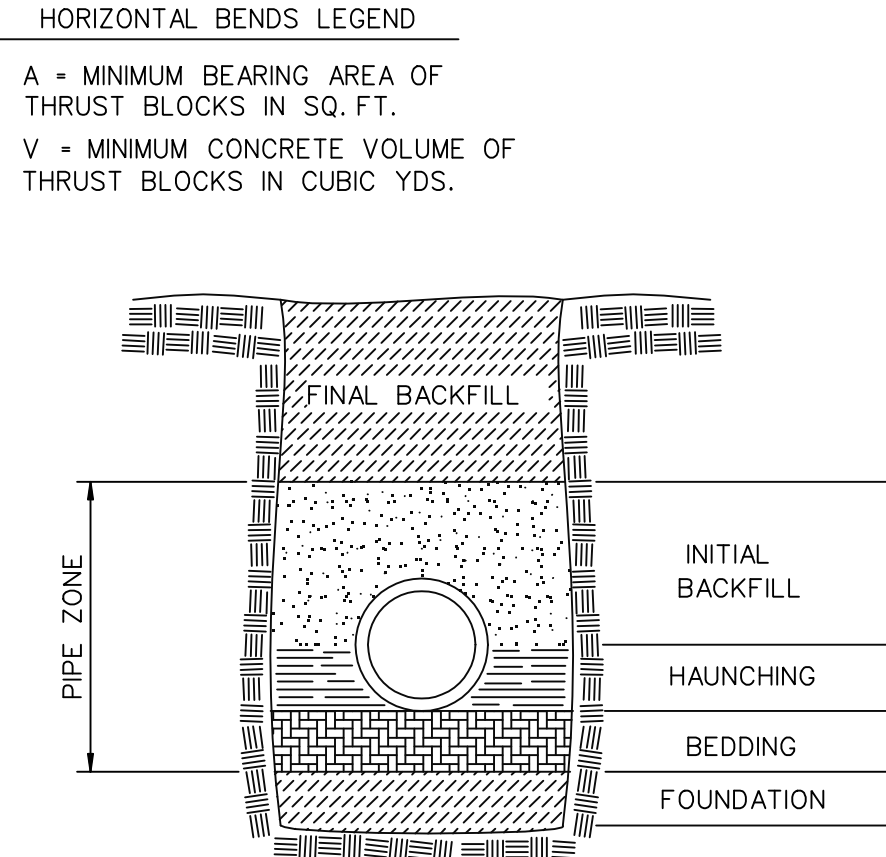


90° BENDS



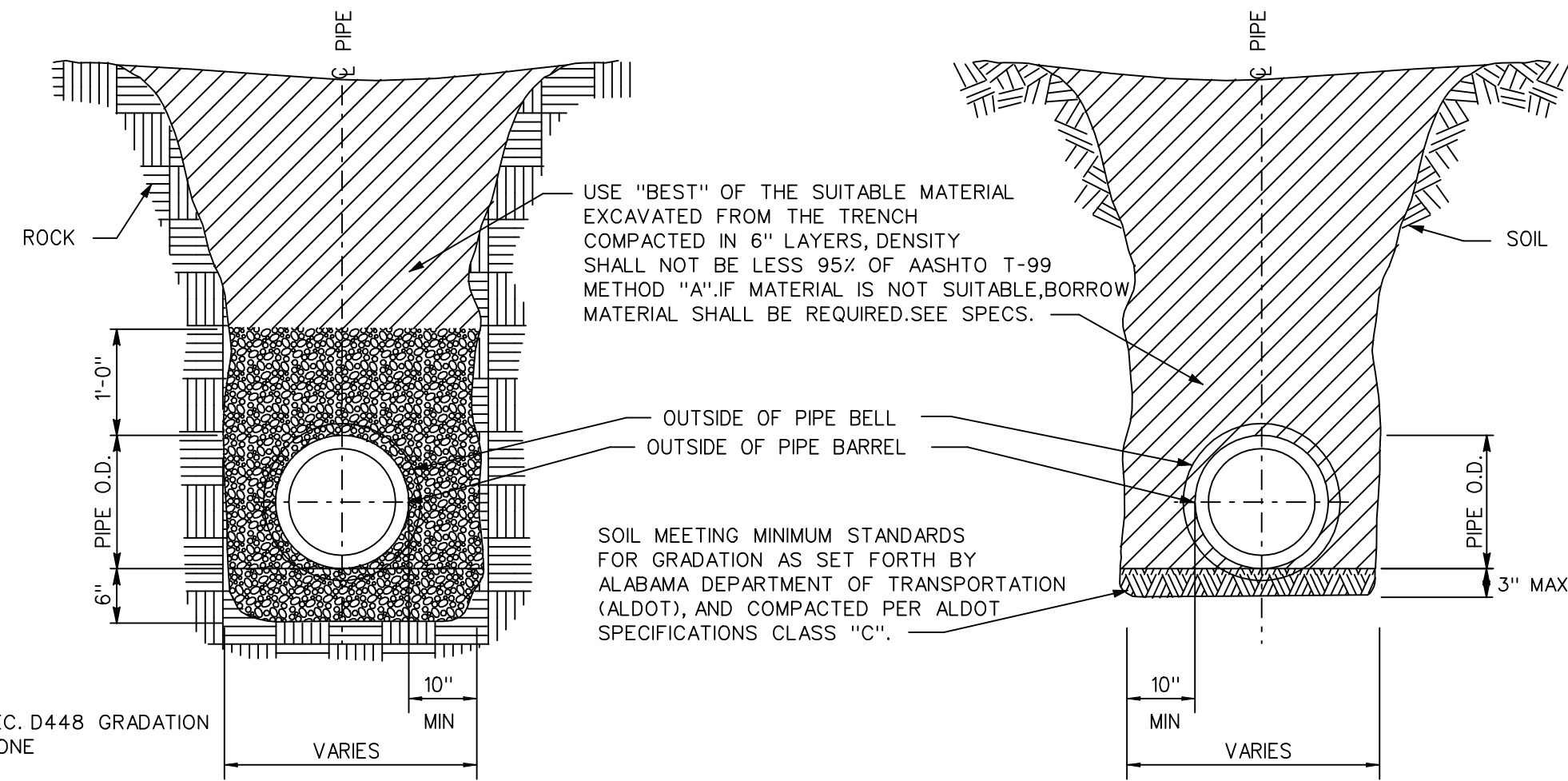
22 1/2° BENDS

FITTING SIZE	TEE, WYE, PLUG, OR CAP		90° BEND PLUGGED ON CROSS		PLUGGED ON RUN				BEND ANGLE					
	A	V	A	V	A	V	A	V	45°		22 1/2°		11 1/4°	
4	2	1/4	2	1/4	2	1/4	2	1/4	1.5	1/4	1	1/4	1	1/4
6	3.5	1/4	3.5	1/4	3.5	1/4	3.5	1/4	2	1/4	1.5	1/4	1	1/4
8	5	1/2	6	1/2	5	1/2	6	1/2	3.5	1/4	2	1/4	1.5	1/4
10	7.5	1/2	9.5	3/4	7.5	1/2	9.5	3/4	5.5	1/2	3	1/4	2	1/4
12	10	3/4	15	3/4	10	3/4	15	3/4	7.5	1/2	4	1/2	3	1/4
14	15	3/4	18	1	15	3/4	18	1	10	3/4	6	1/2	4	1/2
16	20	1	24	1	20	1	24	1	15	3/4	7.5	1/2	6	1/2
18	25	1	30	1 1/2	25	1	30	1.5	20	1	10	3/4	7.5	1/2
20	30	1 1/2	36	2	30	1.5	36	2	25	1	15	3/4	10	3/4
24	45	2	54	3	45	2	54	3	30	1 1/2	20	1	15	3/4
30	50	3	60	4	50	3	60	4	37.5	2	25	1	20	1
36	60	4	72	5	60	4	72	5	49	3	30	1 1/2	25	1
42	70	5	84	6	70	5	84	6	56	4	35	2	30	1 1/2
48	80	6	96	7	80	6	96	7	65	5	45	3	40	2
54	90	7	108	8	90	7	108	8	75	5	60	4	50	3



PIPE INSTALLATION TERMINOLOGY

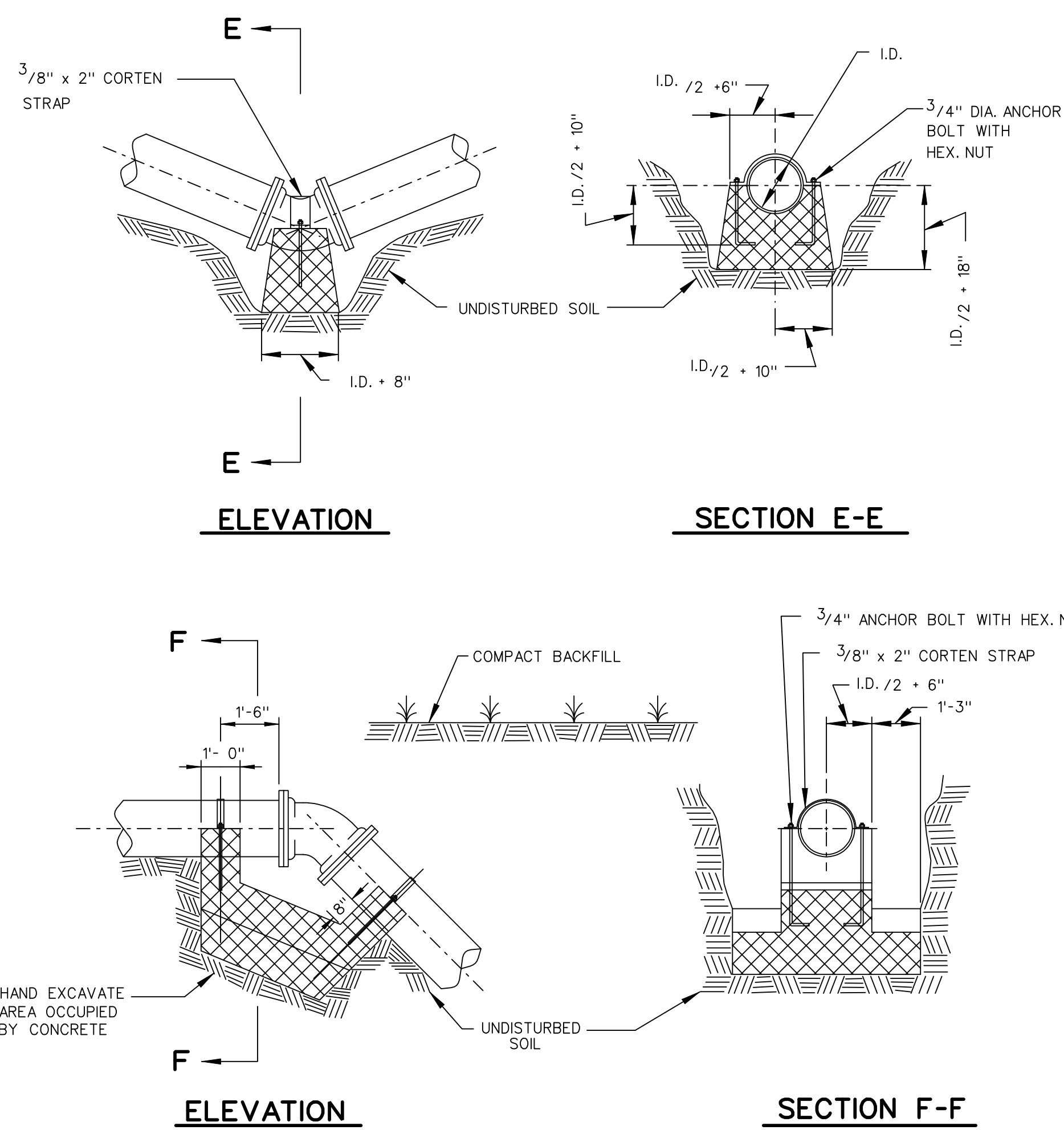
TYPICAL CONCRETE BRACE FOR HORIZONTAL FITTINGS



ROCK
WATER MAIN TRENCH BACKFILL
N.T.S.

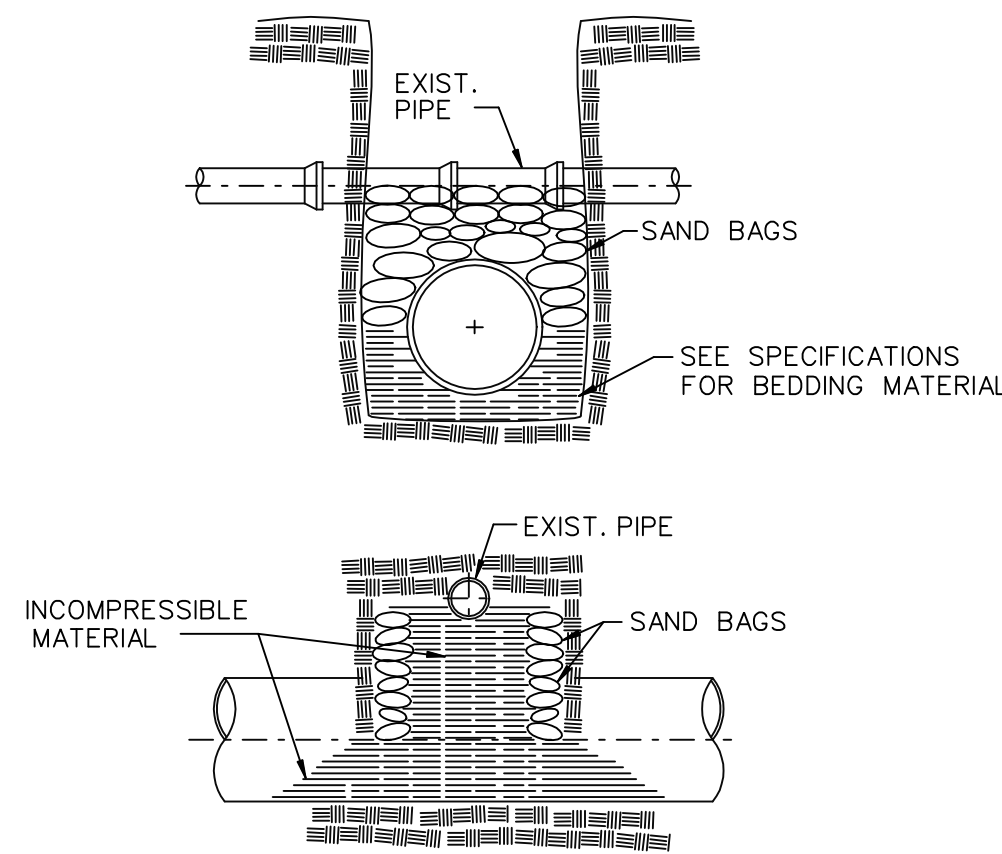
SOIL
WATER MAIN TRENCH BACKFILL
N.T.S.

FLOOR-TYPE PRESSURE
RELIEF VALVE DETAIL
NO SCALE



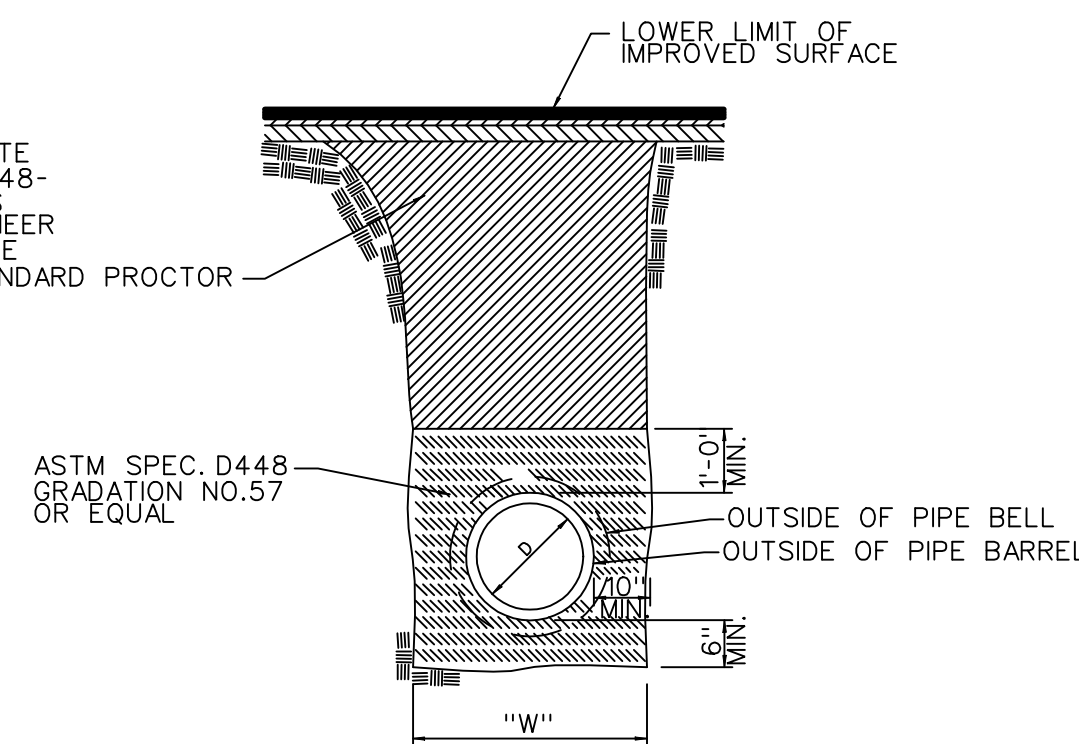
DETAILS OF TYPICAL CONCRETE BRACING & VERTICAL BENDS

NOTE:
EXISTING UTILITIES MAY BE
REPLACED WITH ONE LENGTH
OF CAST IRON PIPE IN LIEU
OF DETAIL BELOW.

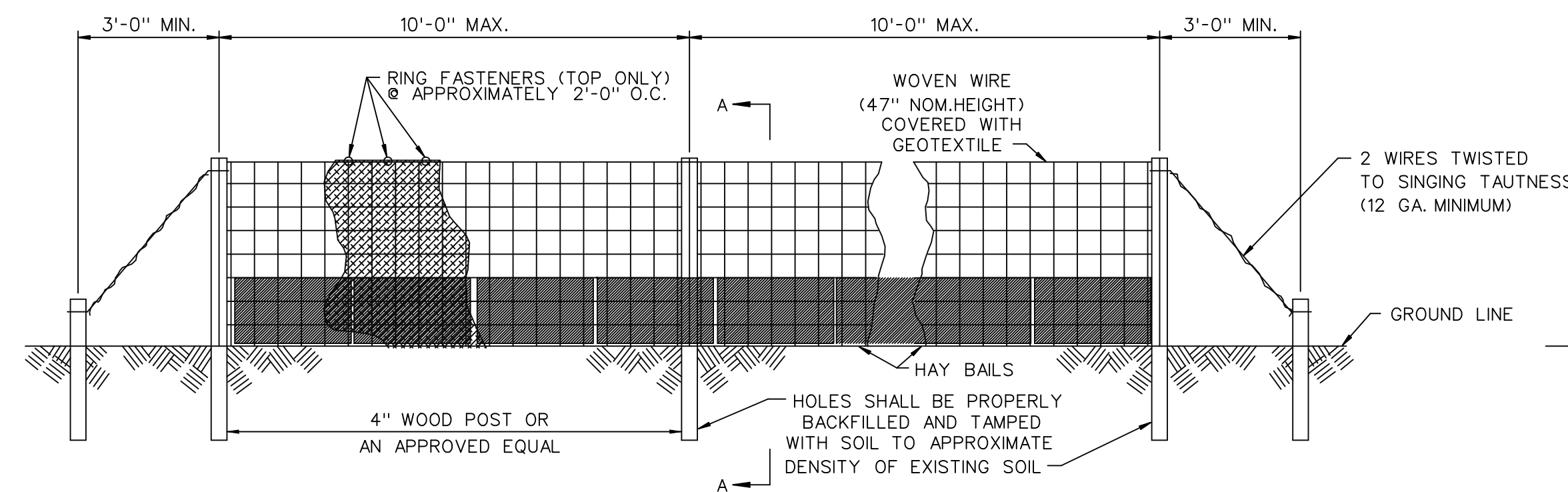


TYPICAL METHOD OF PROTECTING
UTILITIES OR OTHER PIPE
CROSSINGS WHERE NOT LOCATED
UNDER PAVING
NOT TO SCALE

SPECIAL STONE AGGREGATE
BACKFILL ASTM SPEC. D448-
GRADATION NO. 57 OR AS
APPROVED BY THE ENGINEER
8" LOOSE LIFTS SHALL BE
COMPACTED TO 95% STANDARD PROCTOR



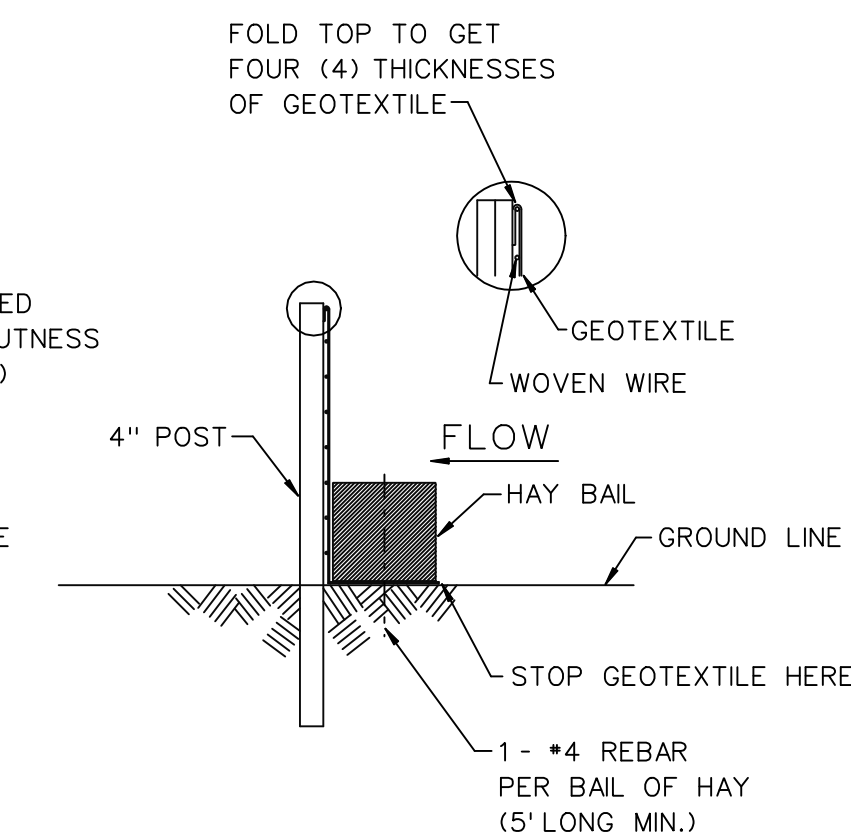
PIPE BEDDING DETAIL
UNDER PAVEMENT
NOT TO SCALE



ELEVATION

SILT FENCE DETAIL
NOT TO SCALE

GENERAL NOTES:
(1) EROSION CONTROL FENCING SHOULD
BE LOCATED ALONG EDGE OF CLEARING
LIMITS ADJACENT TO ALL STREAMS
AND CHANNELS.
(2) THIS DETAIL IS A MINIMUM REQUIREMENT.
(3) GEOTEXTILE FABRIC SHALL BE WOVEN
STYLE #2125 AMOCO FABRIC AND FIBERS COMPANY.



SECTION "A-A"

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2**

DESIGNED DBB		DRAWN LTH		SCALE AS NOTED		DATE FEB., 2025	
APPROVED		REFERENCE LF24144L035.DGN		JOB NO. LF24 144		SHEET 22 OF 32	

PIPE BRACE AND
MISCELLANEOUS DETAILS

ELECTRICAL REFERENCE SYMBOLS

ELECTRICAL ABBREVIATIONS

(APPLY ONLY WHEN ADJACENT TO AN ELECTRICAL SYMBOL)

CENTRAL SWITCH PANEL	CSP
DUSTTIGHT	DT
EMERGENCY SWITCH PANEL	ESP
EMPTY	MT
EXPLOSIONPROOF	EP
GROUNDED	G
GROUND FAULT	GF
NIGHT LIGHT	NL
PULL CHAIN	PC
RAINTIGHT	RT
RECESSED	R
TRANSFER	XFER
TRANSFORMER	XFR
VAPORTIGHT	VT
WATERTIGHT	WT
WEATHERPROOF	WP
DRINKING FOUNTAIN OUTLET	DF

SWITCH OUTLETS

SINGLE-POLE SWITCH	\$
DOUBLE-POLE SWITCH	\$2
THREE-WAY SWITCH	\$3
FOUR-WAY SWITCH	\$4
KEY-OPERATED SWITCH	\$K
SWITCH AND PILOT LAMP	\$P
FAN SWITCH	\$F
SWITCH AND SINGLE RECEPTACLE	—○S
SWITCH AND DUPLEX RECEPTACLE	—○S
DOOR SWITCH	\$D
TIME SWITCH	\$T
MOMENTARY CONTACT SWITCH	\$MC
CEILING PULL SWITCH	(S)
"HAND-OFF-AUTO" CONTROL SWITCH	[HOA]
MULTI-SPEED CONTROL SWITCH	[M]
PUSH BUTTON	[O]

RECEPTACLE OUTLETS

SINGLE-RECEPTACLE OUTLET	—○
DUPLEX-RECEPTACLE OUTLET	—○
CLOCK RECEPTACLE	(C)
FAN RECEPTACLE	(F)
FLOOR SINGLE-RECEPTACLE OUTLET	[]
FLOOR DUPLEX-RECEPTACLE OUTLET	[]
FLOOR SPECIAL-PURPOSE OUTLET	[]
SPECIAL PURPOSE OUTLET	△

CIRCUITING

CONDUIT EXPOSED	—————
CONDUIT CONCEALED IN CEILING, WALL OR UNDER GRADE.	—————
CONDUIT CONCEALED IN FLOOR	-----
CONDUIT EXISTING	—EX—
CONDUIT TURNED UP	—————○
CONDUIT TURNED DOWN	—————●
BRANCH-CIRCUIT HOME RUN TO PANELBOARD.	—————↘

NOTE: ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 - #12 AWG & #12AWG GND. FOR A GREATER NUMBER OF WIRES, INDICATE WITH CROSS LINES, E.G.:

3 WIRES: WITH GROUND		4 WIRES, ETC. WITH GROUND	
----------------------	--	---------------------------	--

WIREWAYS

CABLE-TROUGH LADDER OR CHANNEL	[C][][C]
WIREWAY	[W][][W]

PANELBOARDS, SWITCHBOARDS, AND RELATED EQUIPMENT

FLUSH-MOUNTED PANELBOARD AND CABINET	[]
SURFACE-MOUNTED PANELBOARD AND CABINETS	[]
SWITCHBOARD, POWER-CONTROL CENTER, UNIT SUBSTATIONS (SHOULD BE DRAWN TO SCALE)	[]
FLUSH-MOUNTED TERMINAL CABINET	[TC]
SURFACE-MOUNTED TERMINAL CABINET	[TC]
PULL BOX	[]
MOTOR OR OTHER POWER CONTROLLER	[]
EXTERNALLY OPERATED DISCONNECTION SWITCH	[]
COMBINATION CONTROLLER AND DISCONNECTION MEANS	[]

POWER EQUIPMENT

ELECTRIC MOTOR (hp AS INDICATED)	(1/4)
POWER TRANSFORMER	[]
POTHEAD (CABLE TERMINATION)	—<—
CIRCUIT ELEMENT	[CB]
CIRCUIT BREAKER	[]
FUSIBLE ELEMENT	[]
SINGLE-THROW KNIFE SWITCH	—○—
DOUBLE-THROW KNIFE SWITCH	—○—
GROUND	— — —
BATTERY	— — —
CONTACTOR	[C]

VOLTAGE/PHASE/CYCLES	EX: 480/3/60
RELAY	[R]
EQUIPMENT CONNECTION (AS NOTED)	△

REMOTE-CONTROL STATIONS FOR MOTORS OR OTHER EQUIPMENT

PUSH-BUTTON STATION, START/STOP WITH LOCKOUT	[]
FLOAT SWITCH, MECHANICAL	(F)
LIMIT SWITCH, MECHANICAL	[LS]
PNEUMATIC FLOW SWITCH, MECHANICAL	[P]
SOLENOID-CONTROL VALVE CONNECTION	[SV]
PRESSURE-SWITCH CONNECTION	[P]
THERMOSTAT	(T)

LIGHTING

SURFACE OR PENDANT FIXTURE	TYPE ———	CEILING	WALL
PC - PULL CHAIN	CIRCUIT NO. ———	○A	PC ○
SURFACE OR PENDANT EXIT LIGHT		(XL)	(XL)
BLANKED OUTLET		⊠	
JUNCTION BOX		[J]	
RECESSED INCANDESCENT FIXTURES		○	
SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE		[]	
SURFACE OR PENDANT CONTINUOUS-ROW FIXTURE		[]	
		○— —○— —○— —	
		○E100	FIXTURE NO. WATTAGE
		—	SYMBOL NOT NEEDED AT EACH FIXTURE

ELECTRIC DISTRIBUTION OR LIGHTING SYSTEM, AERIAL

POLE	△45/2	CLASS
STREET OR PARKING-LOT LIGHT AND BRACKET	○	POLE HEIGHT (FEET)
TRANSFORMER	[]	
PRIMARY CIRCUIT	—————	
SECONDARY CIRCUIT	—————	
DOWN GUY	—————>	
HEAD GUY	○	
SIDEWALK GUY	○	
SERVICE WEATHER HEAD	—————<≡	

ELECTRIC DISTRIBUTION OR LIGHTING SYSTEM, UNDERGROUND

MANHOLE	[M]
HANDHOLE	[H]
TRANSFORMER MANHOLE OR VAULT	[TM]
TRANSFORMER PAD	[TP]
UNDERGROUND DIRECT BURIAL CABLE (INDICATE TYPE, SIZE AND NUMBER OF CONDUCTORS BY NOTATION OR SCHEDULE.)	—————

TELEPHONES & INTERCOMS

TELEPHONE	▼
INTERCOM	◇

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of

LAFAYETTE, ALABAMA

Chambers County, Alabama

MILL CREEK WASTEWATER TREATMENT PLANT

CWSRF PROJECT NO.CSG10403-05

CONTRACT NO.2

ELECTRICAL SYMBOL SHEET

Utility Engineering Consultants, LLC

300 SOUTHWEST DRIVE

HOUSTON, TX 77058

DESIGNED DBB

DRAWN LTH

SCALE AS NOTED

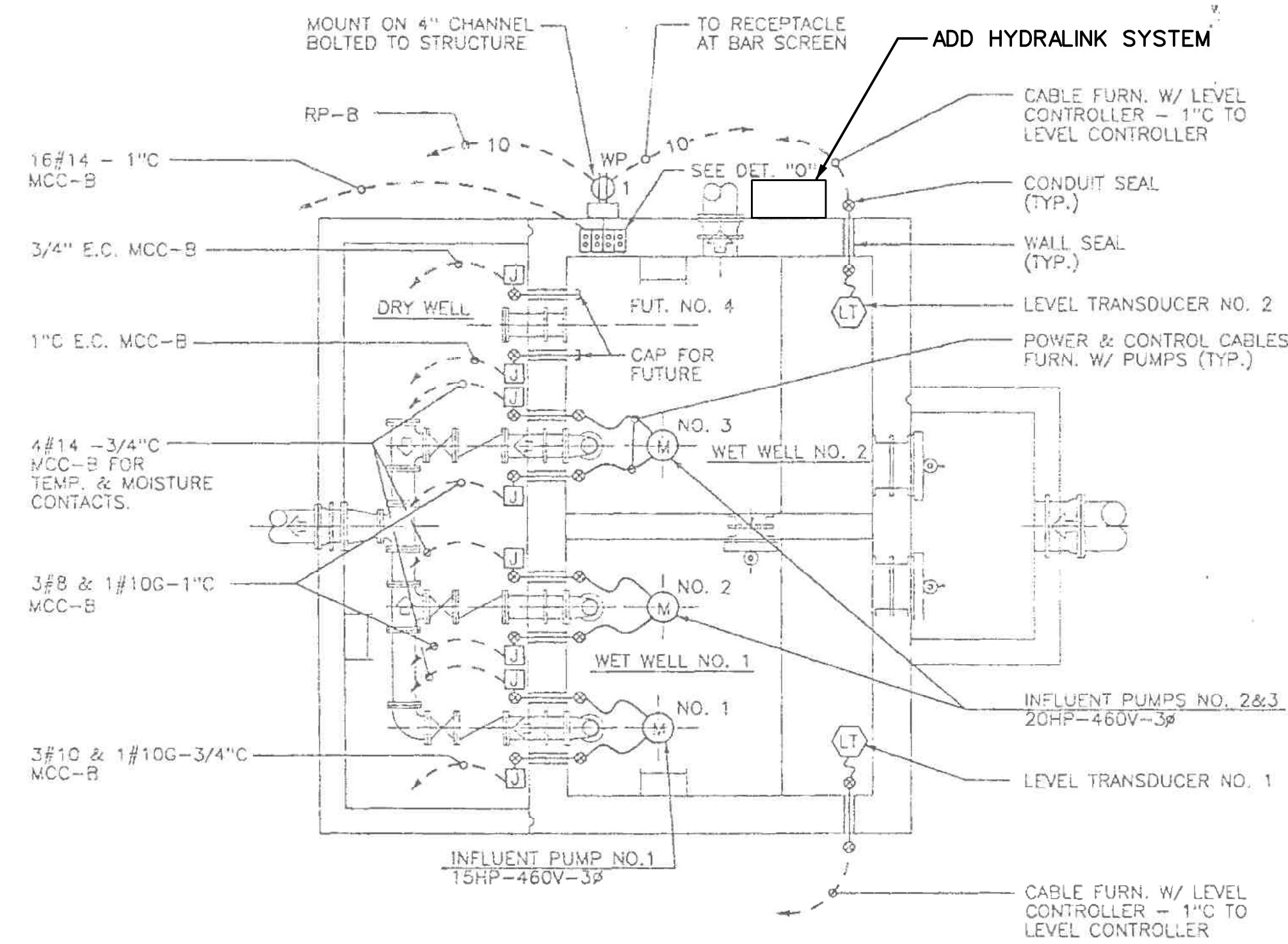
DATE FEB., 2025

APPROVED

REFERENCE LF24144L028.DGN

JOB NO. LF24 144

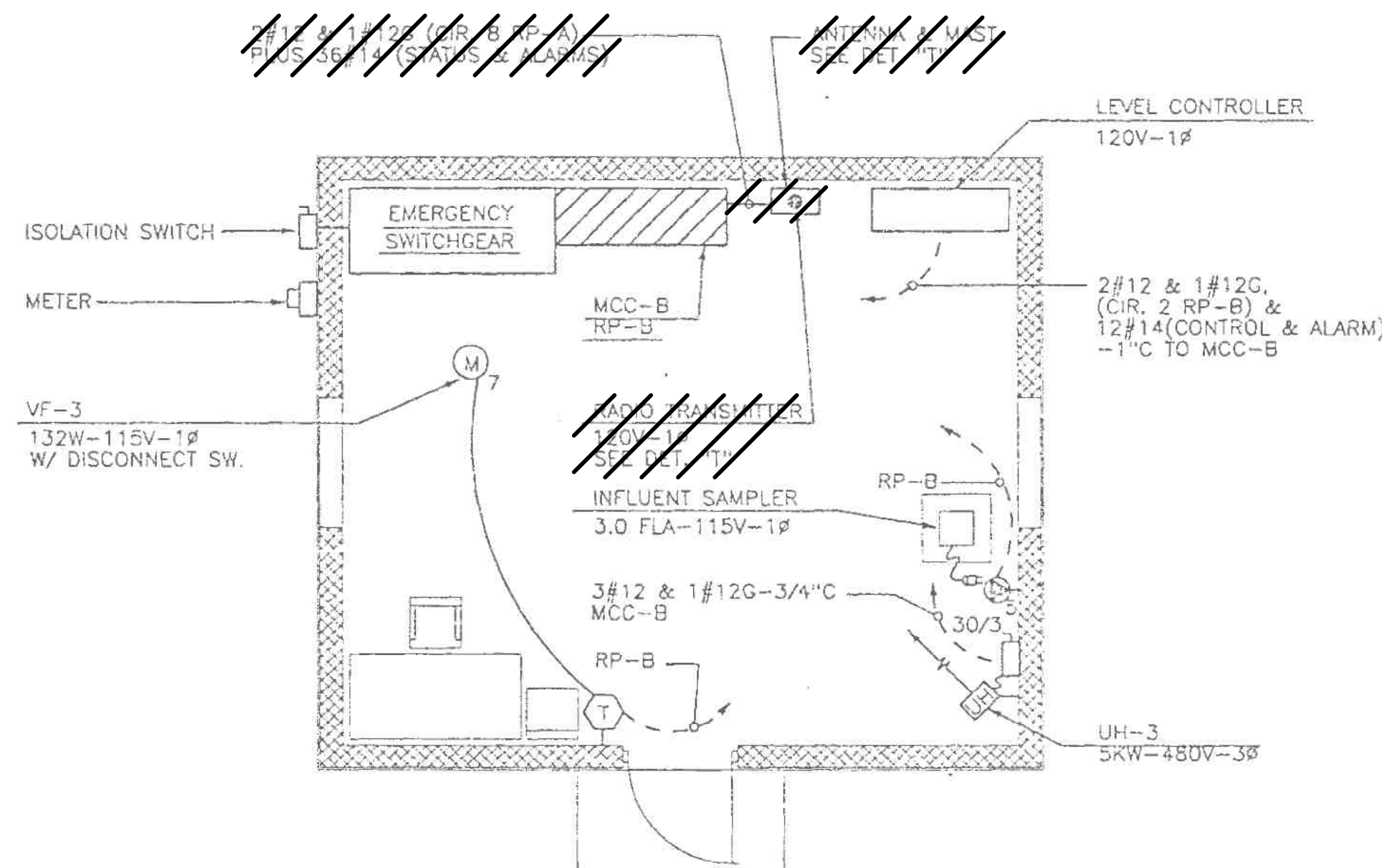
SHEET 23 OF 32



**INFLUENT PUMP STATION
ELECTRICAL PLAN**

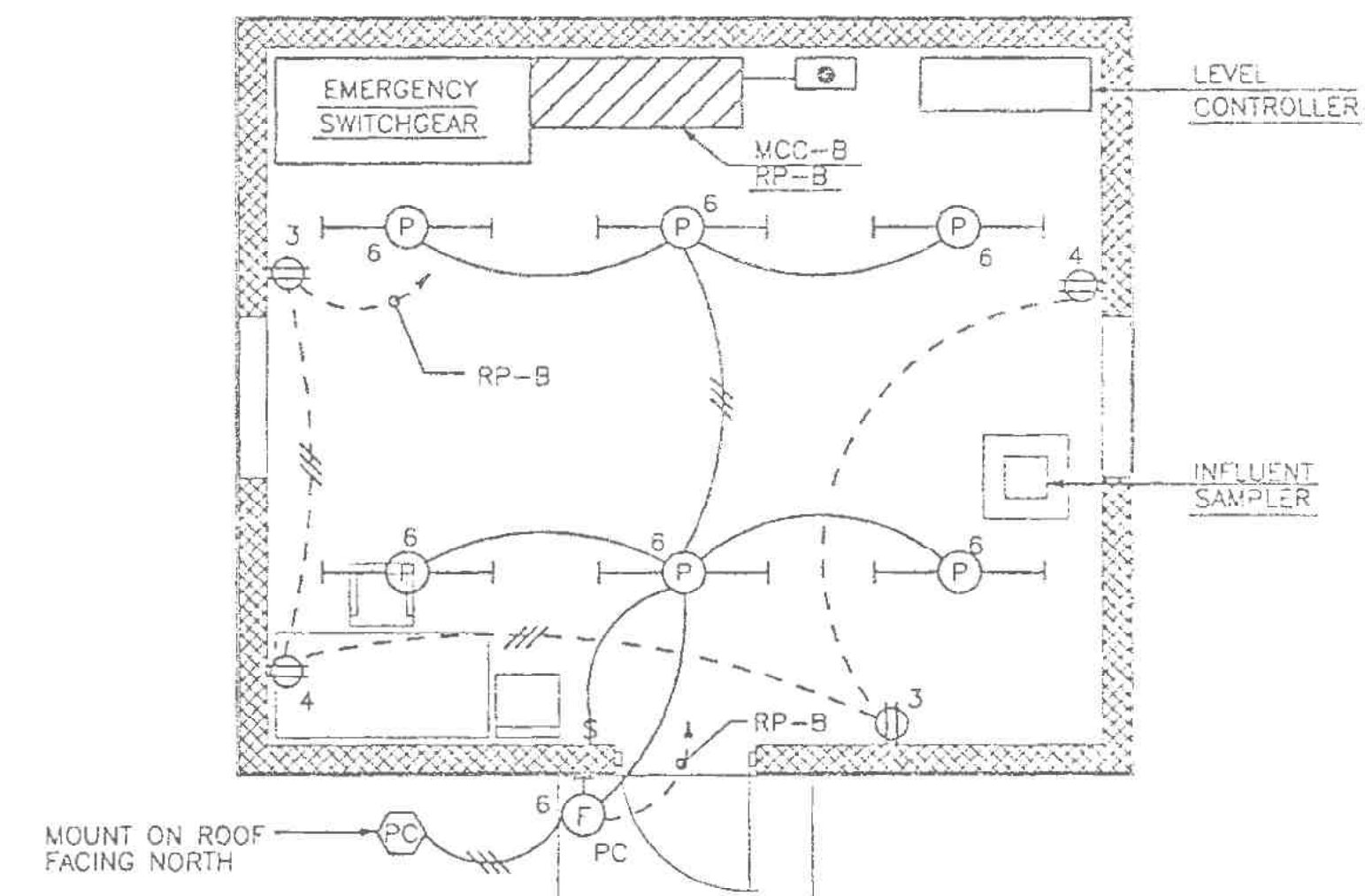
SCALE: 1/4" = 1'-0"

NOTE:
THIS BUILDING IS LOCATED ACROSS
THE STREET FROM WWTP.



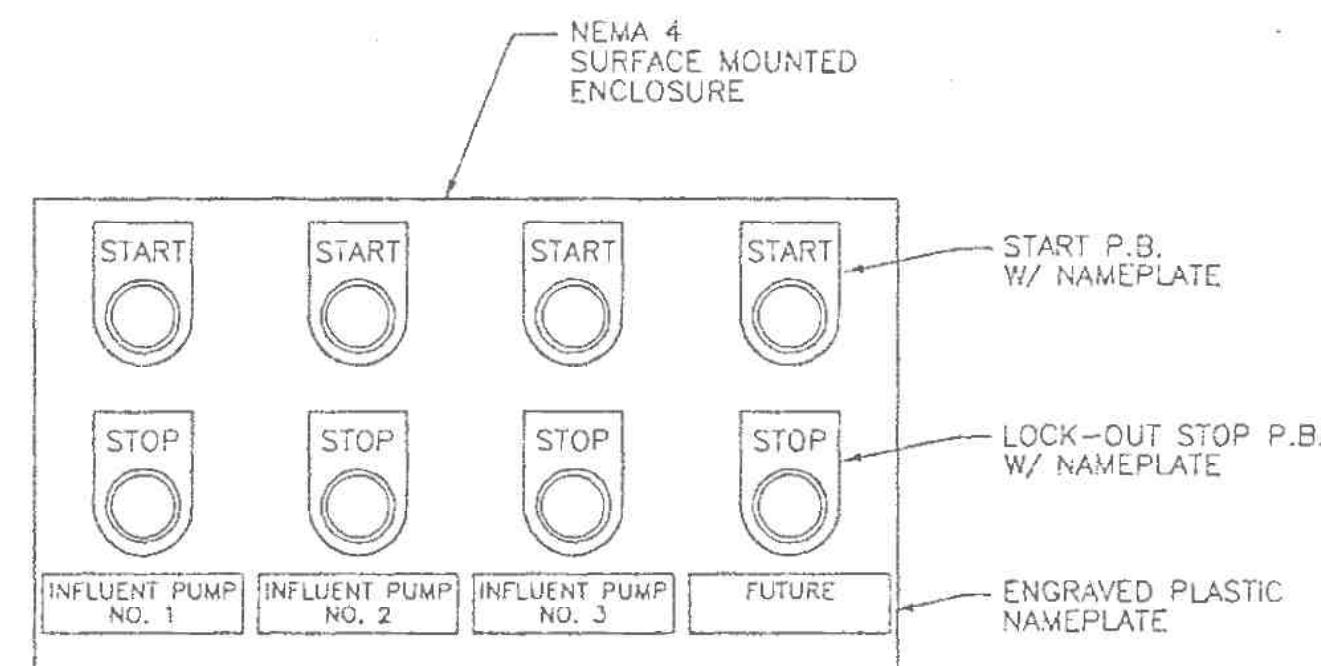
**CONTROL BUILDING
POWER PLAN**

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



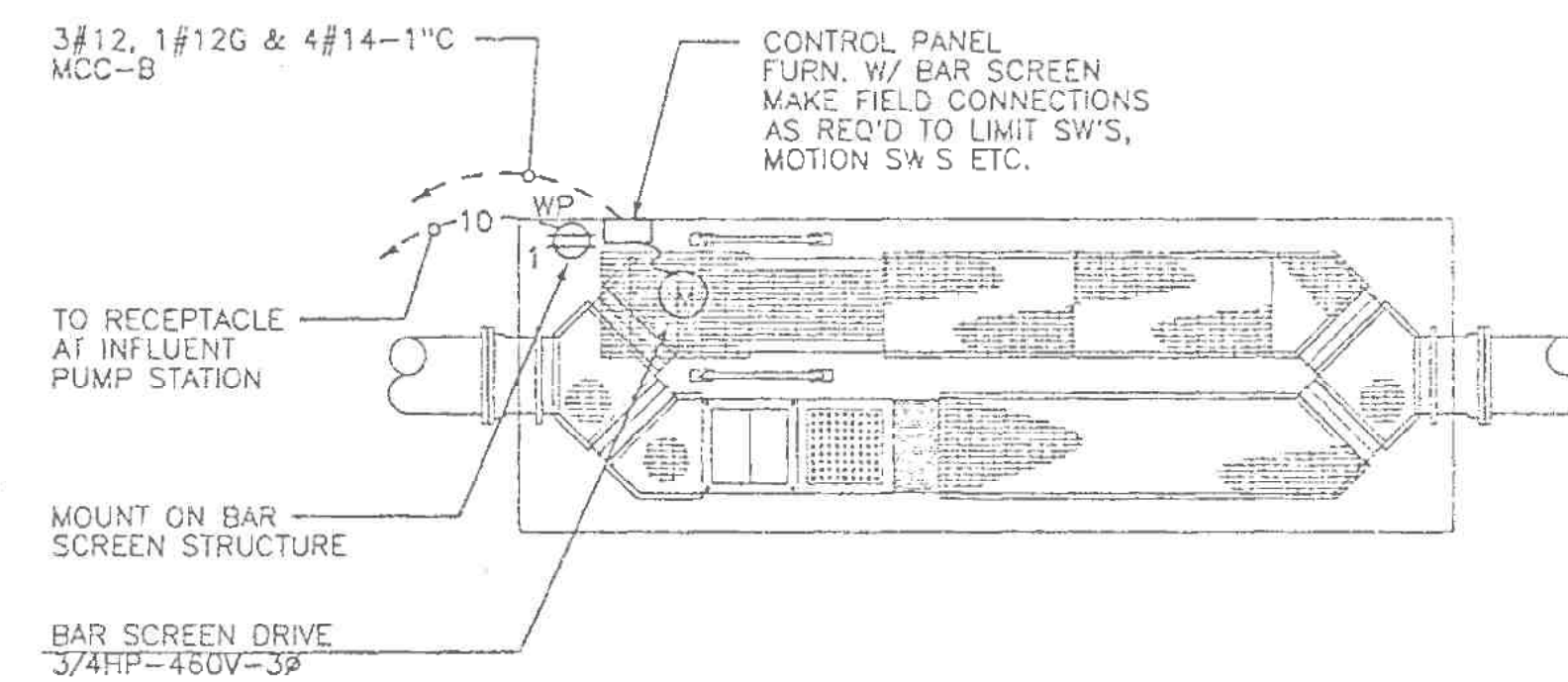
**CONTROL BUILDING
LIGHTING PLAN**

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



**DETAIL "O"
INFLUENT PUMP CONTROL STATION**

SCALE: NONE



**BAR SCREEN
ELECTRICAL PLAN**

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

CONNECT BAR SCREEN TO HYDRALINK

LEGEND



NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

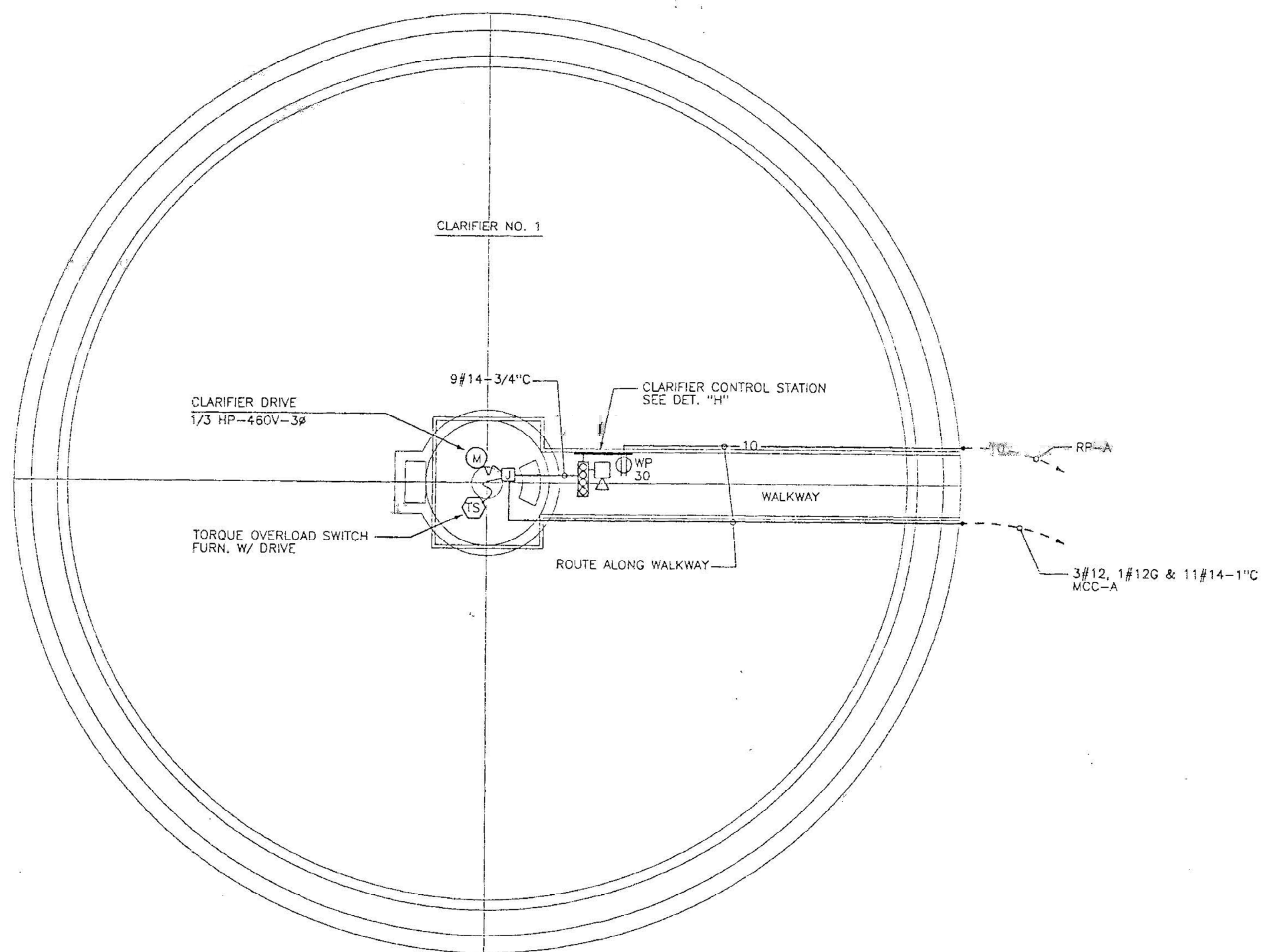
NO.	DATE	REMARKS	BY
REVISIONS			

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT**
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
**EXISTING ELECTRICAL
DEMOLITION**

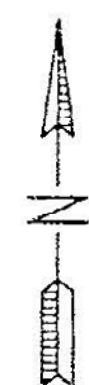
**Utility
Engineering
Consultants, LLC**

130 SOUTHWEST DRIVE
SUITE 100
HOMESBORO, AL 35209

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due B. Butts</i>	REFERENCE LF24144L009.DGN	JOB NO. LF24 144	
SHEET 24 OF 32			



NOTE: CLARIFIER NO. 1 SHOWN
CLARIFIER NO. 2 SIMILAR



TYPICAL CLARIFIER ELECTRICAL PLAN

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

NOTE:
CLARIFIER #1 & #2 ALL WIRING AND CONDUITS
TO BE REPLACED TO MCC-A

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY
		REVISIONS	

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2

TYPICAL EX. CLARIFIER
ELECTRICAL

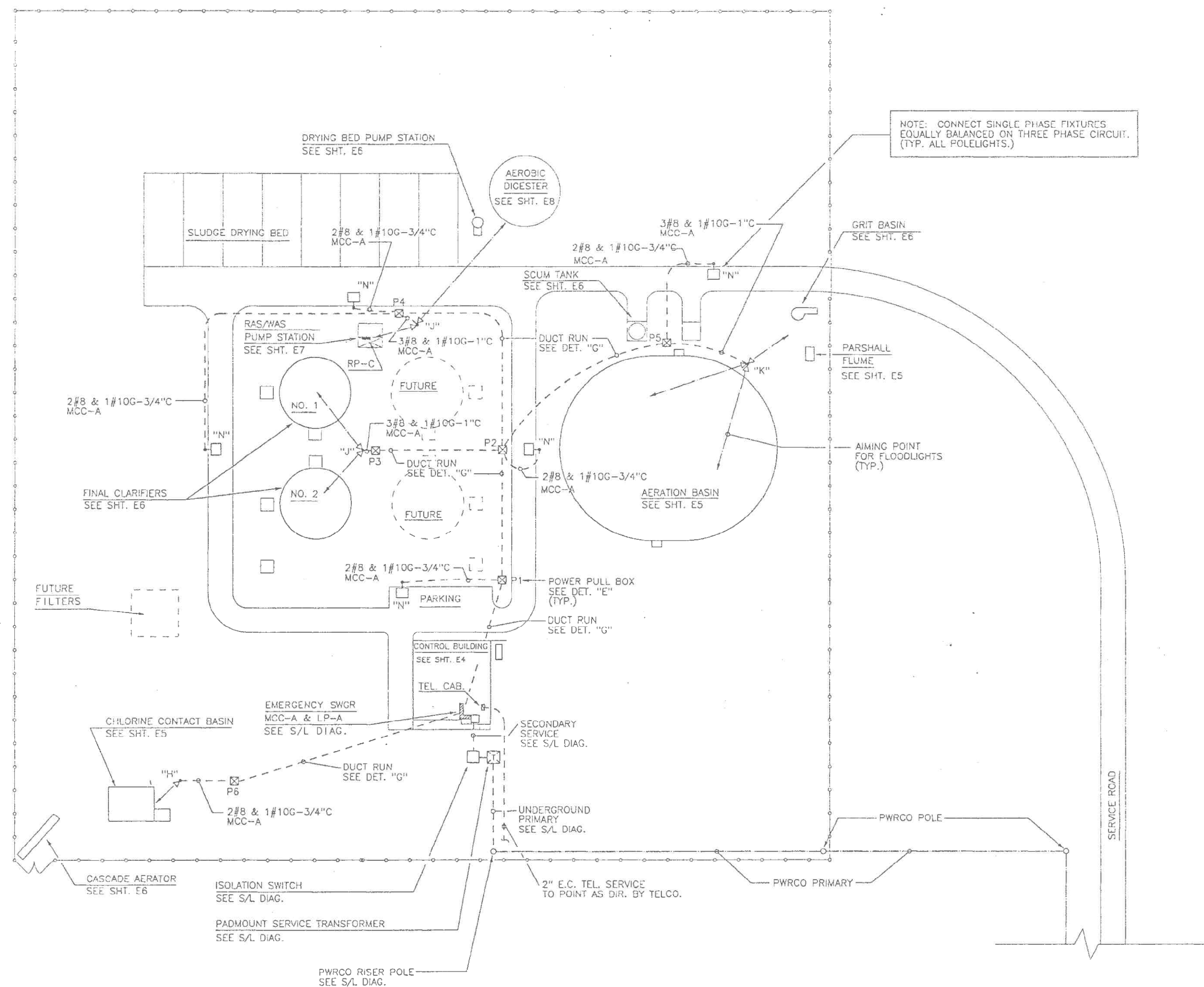


**Utility
Engineering
Consultants, LLC**

130 SOUTHWEST DRIVE
SUITE 100
HOMERIDGE, AL 35899

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due B. Bechtel</i>	REFERENCE LF24144L005.DGN	JOB NO. LF24 144	
SHEET 25 OF 32			

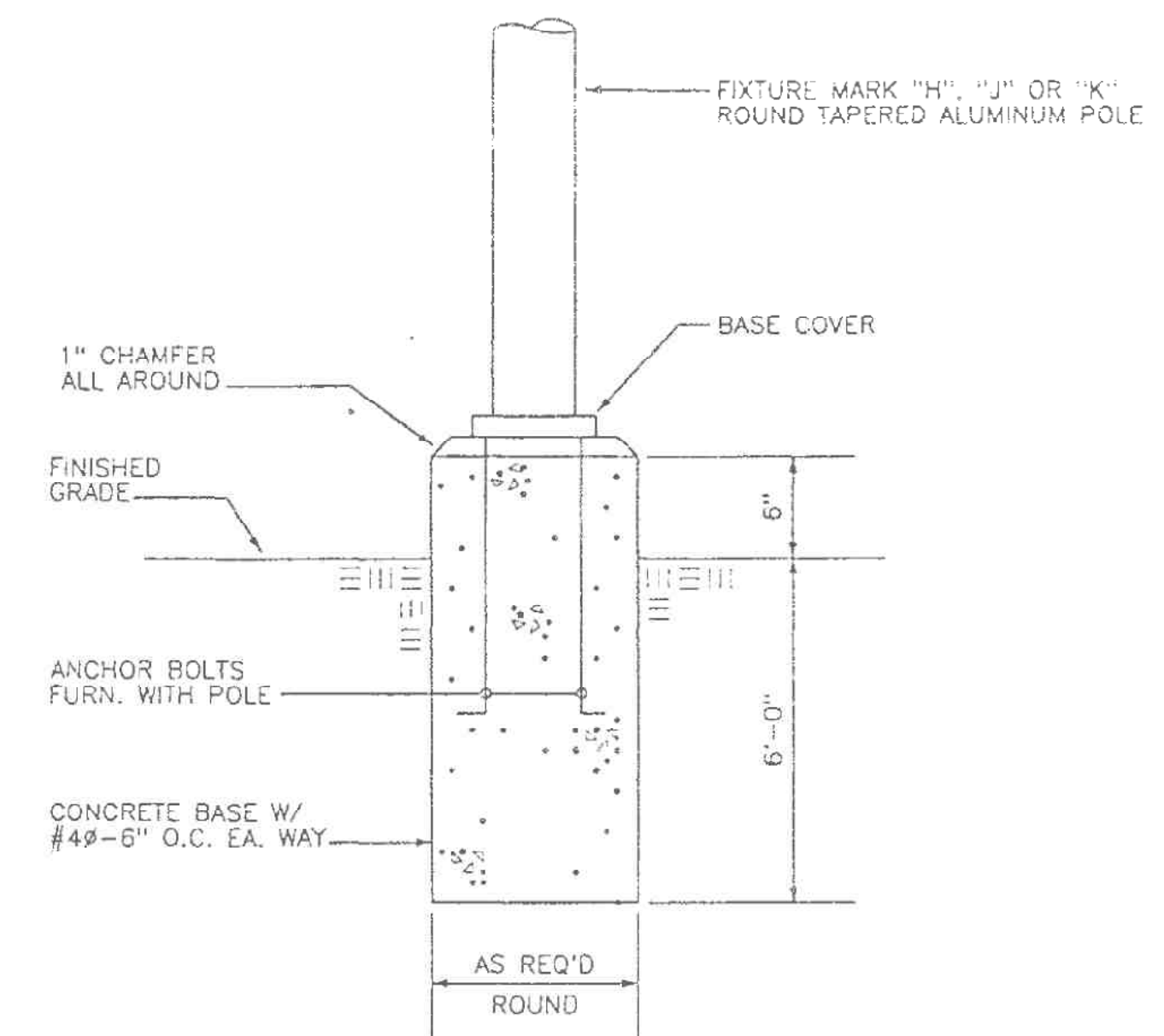




PLANT SITE
ELECTRICAL SITE PLAN

SCALE: NONE

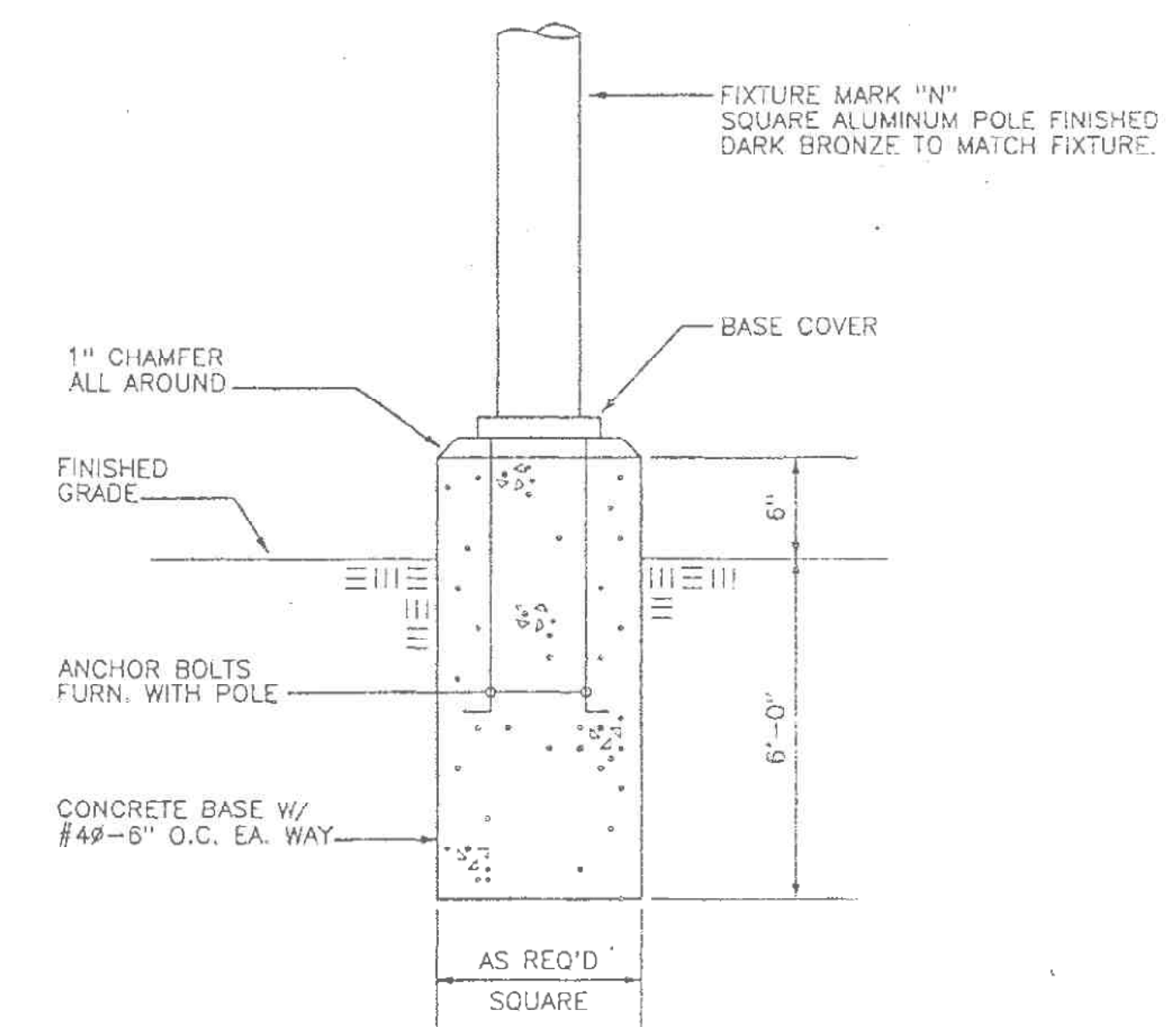
NOTE:
THIS DRAWING IS SHOWN AS A REFERENCE FOR THE
CONTRACTOR TO KNOW WHERE CABLES ARE RUN.



DETAIL "I"
FIXTURES MARK "H", "J", & "K" POLE BASE

SCALE: NONE

(NOT IN THIS CONTRACT)



DETAIL "J"
FIXTURE MARK "N" POLE BASE

SCALE: NONE

(NOT IN THIS CONTRACT)



NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	B
REVISIONS			

The City Of

LAFAYETTE, ALABAMA

Chambers County, Alabama


**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO.2**

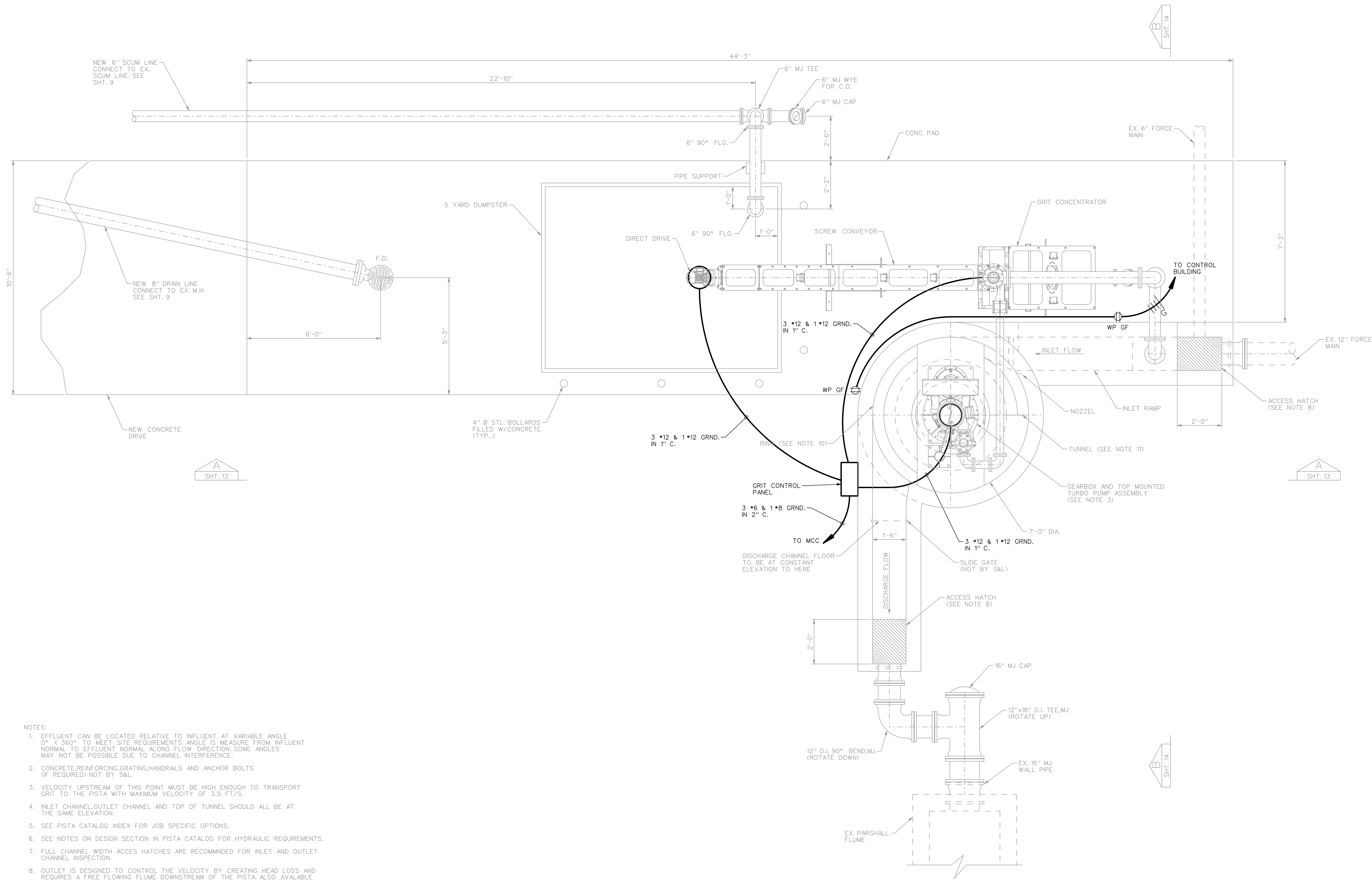
EXISTING SITE PLAN ELECTRICAL



Utility Engineering Consultants, LLC

SOUTHCREST DRIVE
SUITE 100
NEWWOOD, AL 35209

HOMEWOOD, AL 35209			
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 1925
APPROVED	REFERENCE LF24144.L011.DGN		JOB NO. LF24 144
		SHEET 26 OF 32	

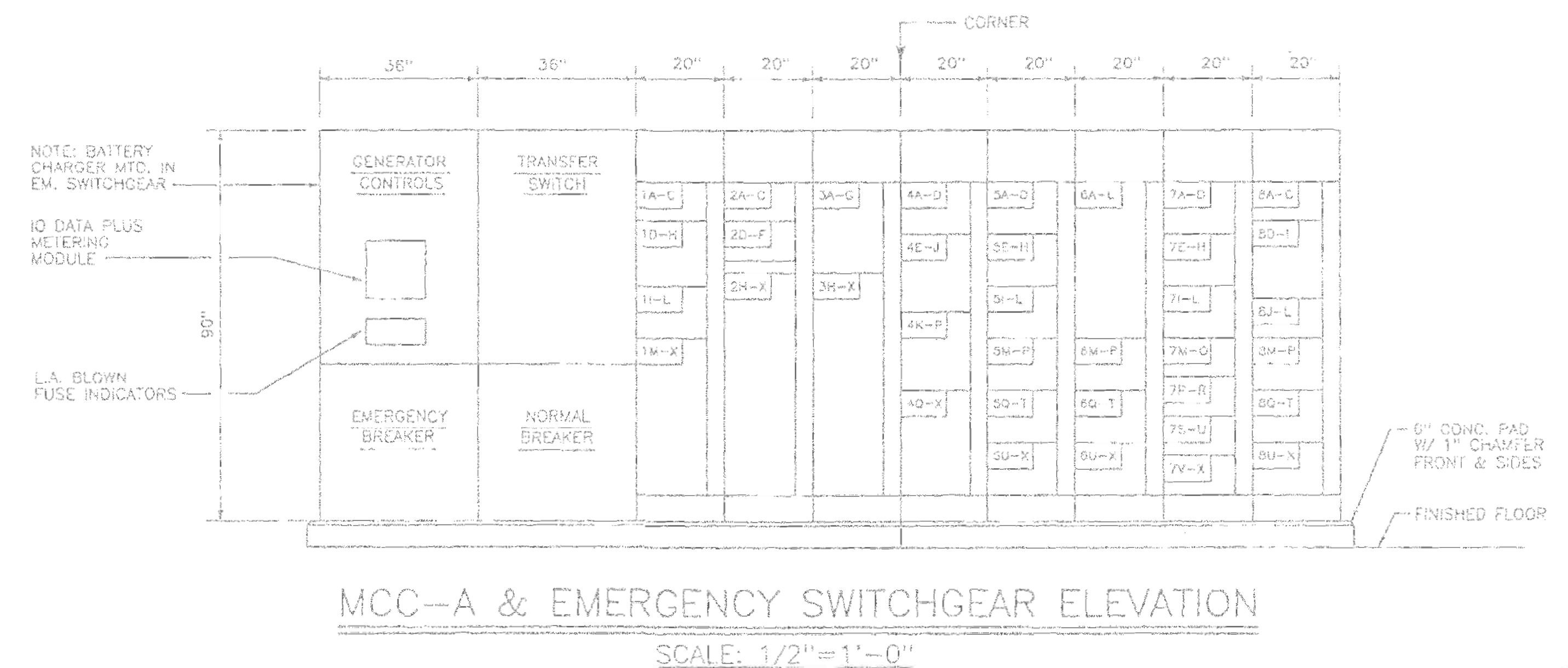
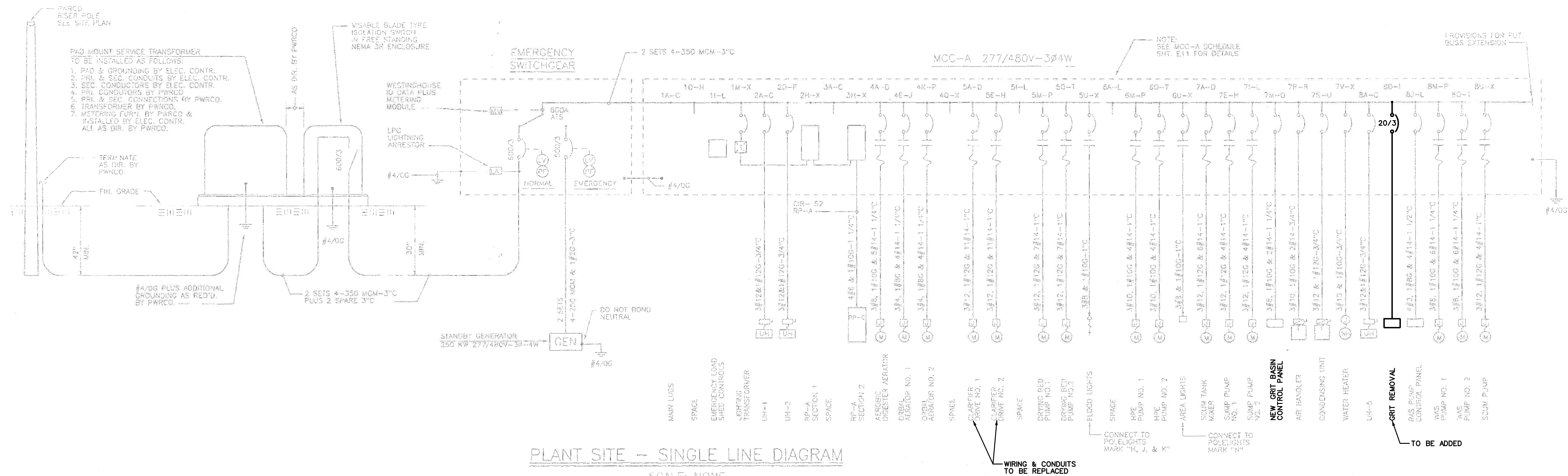


- NOTES:
- EFFLUENT CAN BE LOCATED RELATIVE TO INFLUENT AT VARIABLE ANGLE 0° < 360° TO MEET SITE REQUIREMENTS, ANGLE IS MEASURE FROM INFLUENT NORMAL TO EFFLUENT NORMAL ALONG FLOW DIRECTION, SOME ANGLES MAY NOT BE POSSIBLE DUE TO CHANNEL INTERFERENCE.
 - CONCRETE, REINFORCING, GRATING, HANDRAILS AND ANCHOR BOLTS (IF REQUIRED) NOT BY S&L.
 - VELOCITY UPSTREAM OF THIS POINT MUST BE HIGH ENOUGH TO TRANSPORT GRIT TO THE PISTA WITH MAXIMUM VELOCITY OF 3.5 FT/S.
 - INLET CHANNEL, OUTLET CHANNEL AND TOP OF TUNNEL SHOULD ALL BE AT THE SAME ELEVATION.
 - SEE PISTA CATALOG INDEX FOR JOB SPECIFIC OPTIONS.
 - SEE NOTES ON DESIGN SECTION IN PISTA CATALOG FOR HYDRAULIC REQUIREMENTS.
 - FULL CHANNEL WIDTH ACCES HATCHES ARE RECOMMENDED FOR INLET AND OUTLET CHANNEL INSPECTION.
 - OUTLET IS DESIGNED TO CONTROL THE VELOCITY BY CREATING HEAD LOSS AND REQUIRES A FREE FLOWING FLUME DOWNSTREAM OF THE PISTA ALSO AVAILABLE WITH NO RESTRICTION, BUT THE HYDRAULIC PROFILE MUST MAINTAIN THE REQUIRED INLET VELOCITY FOR PROPER OPERATION. CONSULT FACTORY.
 - RING IS IN THREE PIECES AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
 - TUNNEL FASTENS TO THE CHAMBER FLOOR WITH CONCRETE ANCHORS (NOT BY S&L) AND MOUNTS TO WALL VIA SUPPORT BRACKETS AND CONCRETE ANCHORS (NOT BY S&L).
 - NOZZEL IS FASTENED IN PLACE VIA CONCRETE ANCHORS (NOT BY S&L).
 - UNDERDRIVE IS NOT USED FOR MODELS 0.5-2.5, UNDERDRIVE IS MOUNTED VIA CONCRETE ANCHORS (NOT BY S&L).

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

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of LAFAYETTE, ALABAMA Chambers County, Alabama MILL CREEK WASTEWATER TREATMENT PLANT CWSRF PROJECT NO. CSG10403-05 CONTRACT NO. 2				Utility Engineering Consultants, LLC 300 SOUTHWEST DRIVE HOUSTON, TX 77058	
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025		
APPROVED <i>Don B. Butler</i>		REFERENCE LF24144L025.DGN	JOB NO. LF24 144		
NEW GRIT CHAMBER PLAN ELECTRICAL				SHEET 27 OF 32	



NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
**MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2**

**EXISTING
SINGLE LINE DIAGRAM**

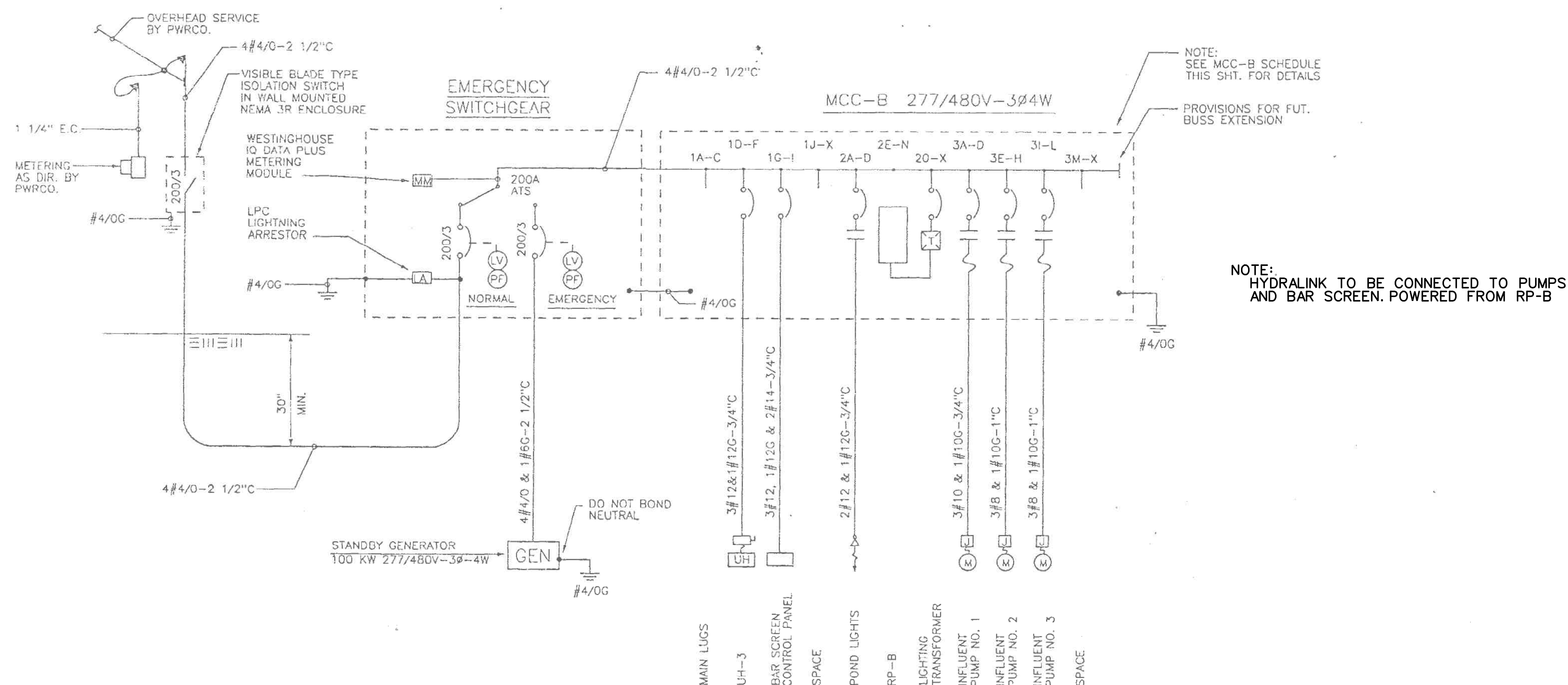
**Utility
Engineering
Consultants, LLC**

DESIGNED DBB DRAWN LTH SCALE AS NOTED DATE FEB., 2025

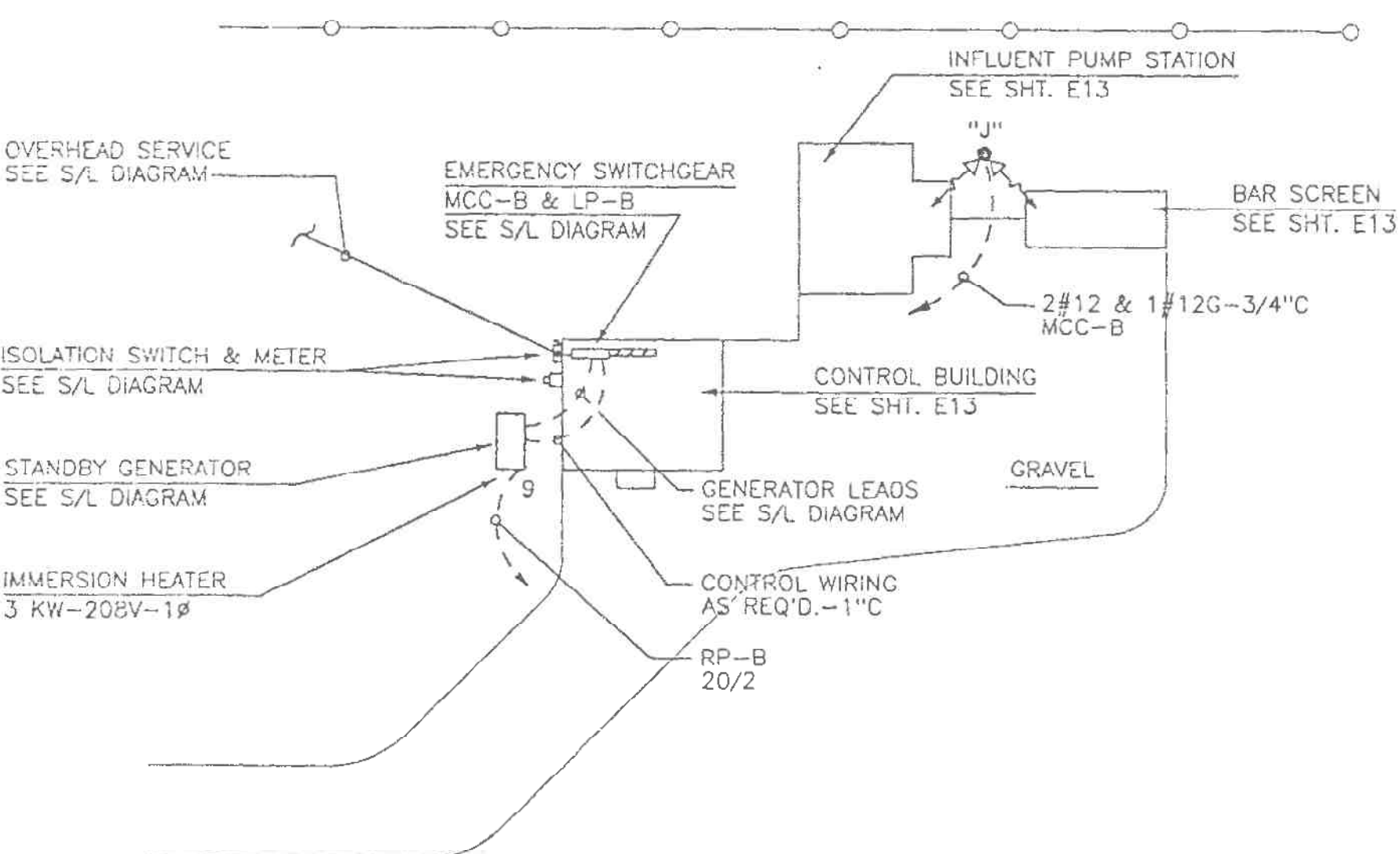
APPROVED REFERENCE LF24144L006.DGN JOB NO. LF24 144

SHEET 28 OF 32

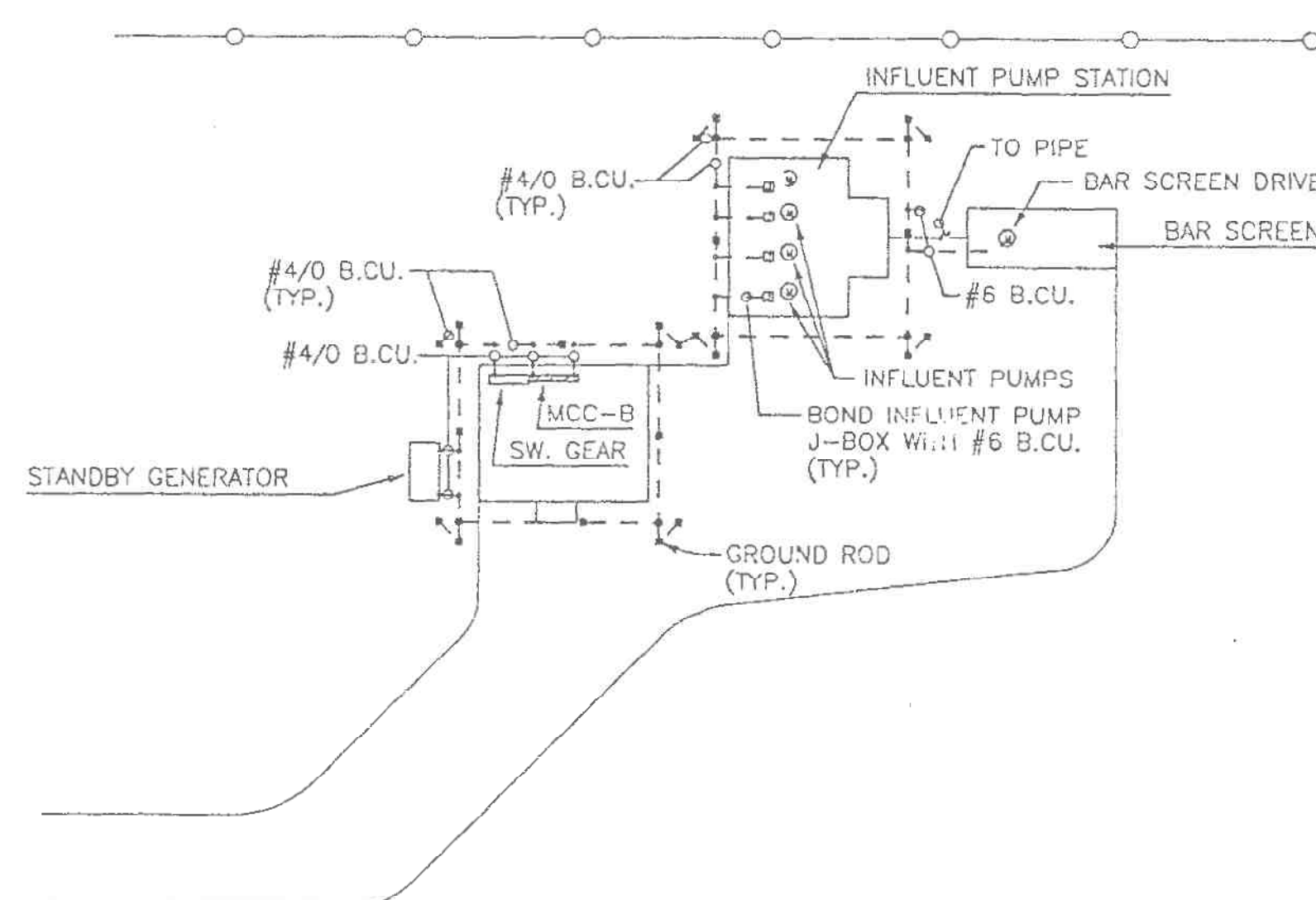




INFLUENT SITE - SINGLE LINE DIAGRAM
SCALE: NONE

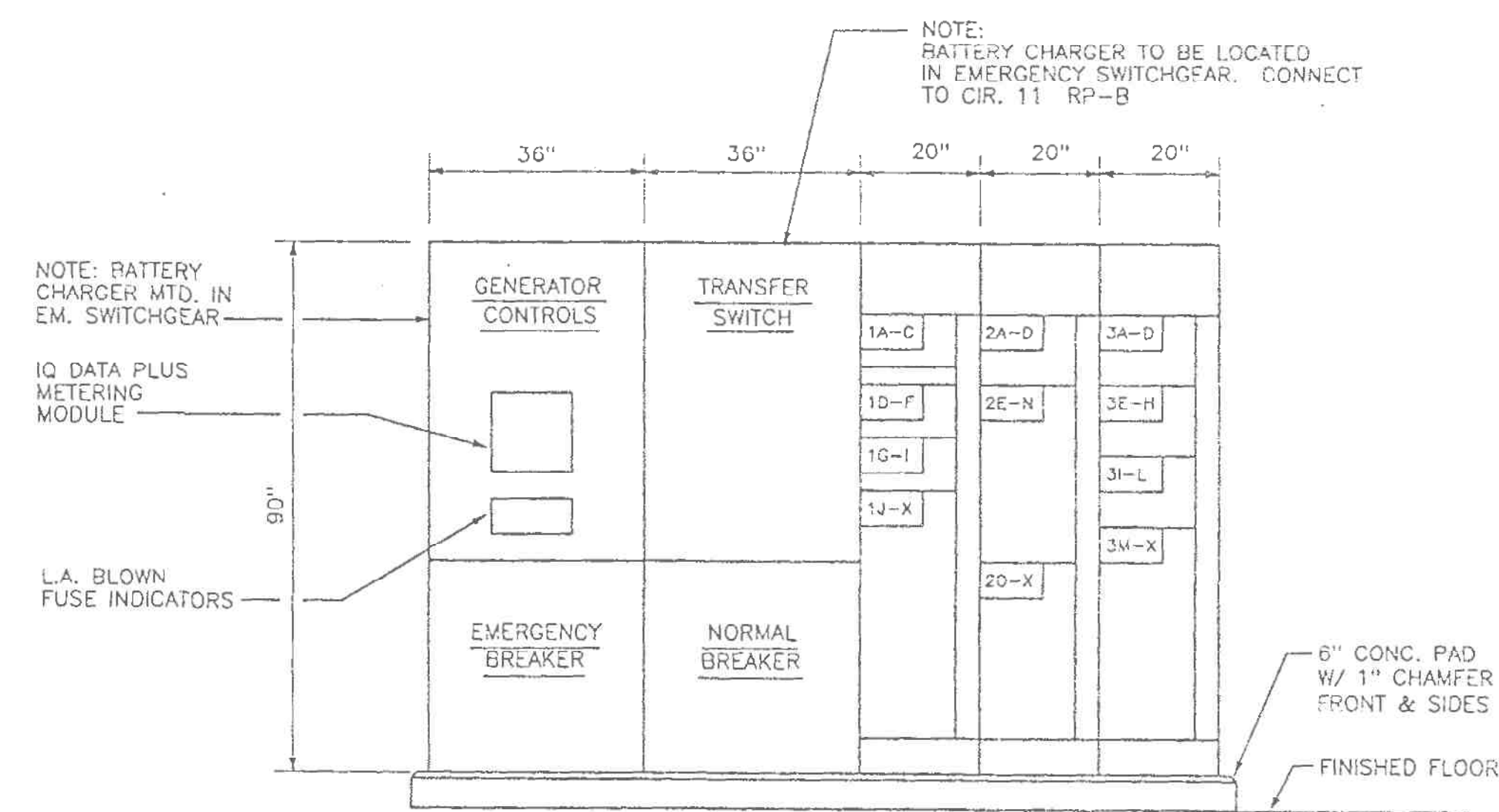


INFLUENT PUMP STATION SITE
ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"
(FOR REFERENCE ONLY)



INFLUENT PUMP STATION SITE
GROUNDING PLAN
SCALE: 1" = 20'-0"
(FOR REFERENCE ONLY)

MOTOR CONTROL CENTER SCHEDULE MCC-B											
UNIT NO.	NAMEPLATE DESCRIPTION	MCC UNIT DESCRIPTION	ELEC. EQUIP. CHARACTERISTICS				STR. NEMA SIZE	AUX. DEVICES IN DOOR			REMARKS
			H.P.	KW	V	P		PUSH BTNS.	SEL. SW.	IND. LTS.	
1A-C	MAIN LUGS	LUGS FOR CABLE SHOWN ON S/L DIAG. (600A)			277/480	3					
1D-F	UH-3	15/3 BREAKER		5	480	3					
1G-I	BAR SCREEN CONTROL PANEL	15/3 BREAKER	1/2		460	3					
1J-X	SPACE	PROV. FOR FUT. PLUG-IN UNITS			277/480	3					
2A-D	FLOOD LIGHTS	30A LIGHTING CONTACTOR W/ 20/3 BKR.			480	3		2	1	2	SEE ELEM. DIAG. NO. 12
2E-N	RP-B	SEE PANEL SCHEDULE			120/208	3					
2O-X	LIGHTING TRANSFORMER	15KVA DRY TYPE TRANSF. 480-120/208V-3P-4W W/ 20/3 PRI. BKR.		15	480	3					
3A-D	INFLUENT PUMP NO. 1	COMB. MAG. STR. FVNR W/ 30/3 MCP SET 15M	15		460	3	2	4	1	4	SEE ELEM. DIAG. NO. 10
3E-H	INFLUENT PUMP NO. 2	COMB. MAG. STR. FVNR W/ 50/3 MCP SET 16M	20		460	3	2	4	1	4	SEE ELEM. DIAG. NO. 10
3I-L	INFLUENT PUMP NO. 3	COMB. MAG. STR. FVNR W/ 50/3 MCP SET 16M	20		460	3	2	4	1	4	SEE ELEM. DIAG. NO. 10
3M-X	SPACE	PROV. FOR FUT. PLUG-IN UNITS			277/480	3					



MCC-B & EMERGENCY SWITCHGEAR ELEVATION
SCALE: 1/2"=1'-0"

NOTE: INFORMATION ACQUIRED FROM PAUL B. KREBS & ASSOCIATES, INC. DRAWINGS.

NO.	DATE	REMARKS	BY
		REVISIONS	

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2

EXISTING ELECTRICAL

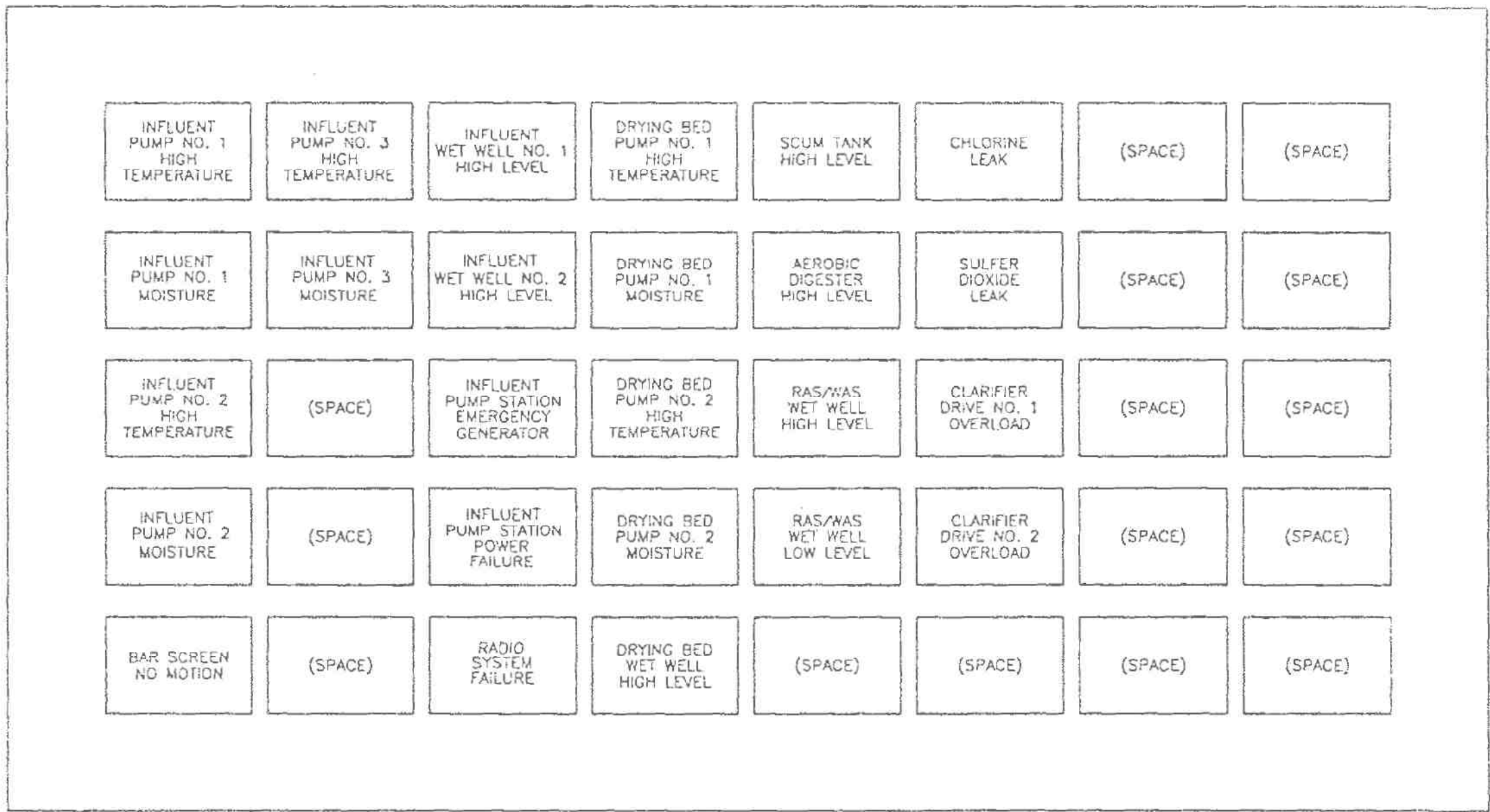
Utility Engineering Consultants, LLC

DESIGNED: DBB
DRAWN: LTH
SCALE: AS NOTED
DATE: FEB., 2025

REFERENCE: LF24144L008.DGN
JOB NO.: LF24 144

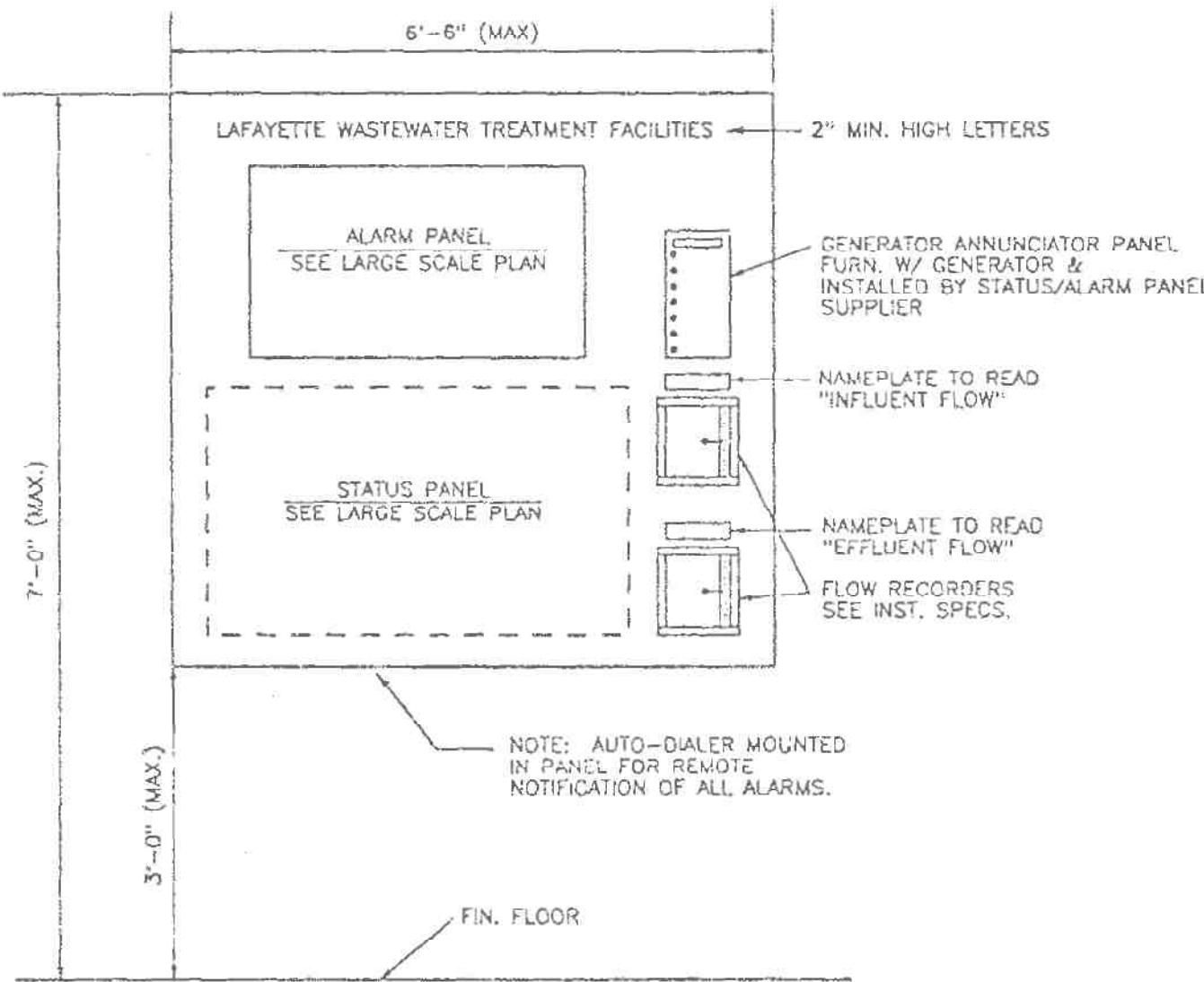
SHEET 29 OF 32

MOTOR CONTROL CENTER SCHEDULE MCC-A											
UNIT NO.	NAMEPLATE DESCRIPTION	MCC UNIT DESCRIPTION	ELEC. EQUIP. CHARACTERISTICS			STR. NEMA SIZE	AUX. DEVICES IN DOOR			REMARKS	
			H.P.	KW	V		P	PUSH BTNS.	SEL. SW.		IND. LTS.
1A-C	MAIN LUGS	LUGS FOR CABLE SHOWN ON S/L DIAG. (600A)			277/480	3					
1D-H	SPACE	PROV. FOR FUT. PLUG-IN UNITS			277/480	3					
1I-L	EMERGENCY LOAD SHED CONTROLS	CONTROLS			120	1	2		4	SEE ELEM. DIAG. NO. 11	
1M-X	LIGHTING TRANSFORMER	45KVA DRY TYPE TRANS. 480-120/208V-3P-4W W/ 60/3 PRI. BKR.		45	480	3					
2A-C	UH-1	15/3 BREAKER		3	480	3					
2D-F	UH-2	15/3 BREAKER		5	480	3					
2H-X	RP-A SECTION 1	SEE PANEL SCHED.			120/208	3					
3A-G	SPACE	PROV. FOR FUT. PLUG-IN UNITS			277/480	3					
3I-X	RP-A SECTION 2	SEE PANEL SCHED.			120/208	3					
4A-D	AEROBIC DIGESTER AERATOR	COMB. MAG. STR. FVNR W/ 50/3 MCP SET 16M	25		460	3	2	2	1	2	SEE ELEM. DIAG. NO. 2
4E-J	ORBAL AERATOR NO. 1	COMB. MAG. STR. FVNR W/100/3 MCP SET 18M	50		460	3	3	2	1	2	SEE ELEM. DIAG. NO. 14
4K-P	ORBAL AERATOR NO. 2	COMB. MAG. STR. FVNR W/100/3 MCP SET 18M	50		460	3	3	2	1	2	SEE ELEM. DIAG. NO. 14
4Q-X	SPACE	PROV. FOR FUT. PLUG IN UNIT			277/480	3					
5A-D	CLARIFIER DRIVE NO. 1	COMB. MAG. STR. FVNR W/ 3/3 MCP SET 11M	1/3		460	3	1	2	1	2	SEE ELEM. DIAG. NO. 3
5E-H	CLARIFIER DRIVE NO. 2	COMB. MAG. STR. FVNR W/ 3/3 MCP SET 11M	1/3		460	3	1	2	1	2	SEE ELEM. DIAG. NO. 3
5I-L	SPACE	PROV. FOR FUT. PLUG IN UNITS			277/480	3					
5M-P	DRYING BED PUMP NO. 1	COMB. MAG. STR. FVNR W/ 7/3 MCP SET 12M	3		460	3	1	4	1	4	SEE ELEM. DIAG. NO. 9
5Q-T	DRYING BED PUMP NO. 2	COMB. MAG. STR. FVNR W/ 7/3 MCP SET 12M	3		460	3	1	4	1	4	SEE ELEM. DIAG. NO. 9
5U-X	FLOOD LIGHTS	60A LIGHTING CONTACTOR W/ 40/3 BREAKER			480	3		2	1	2	SEE ELEM. DIAG. NO. 12
6A-L	SPACE	PROV. FOR FUT. PLUG IN UNITS			277/480	3					
6M-P	HPE PUMP NO. 1	COMB. MAG. STR. FVNR W/ 30/3 MCP SET 15M	10		460	3	1	2	1	2	SEE ELEM. DIAG. NO. 6
6Q-T	HPE PUMP NO. 2	COMB. MAG. STR. FVNR W/ 30/3 MCP SET 15M	10		460	3	1	2	1	2	SEE ELEM. DIAG. NO. 6
6U-X	AREA LIGHTS	60A LIGHTING CONTACTOR W/ 40/3 BREAKER			277/480	3		2	1	2	SEE ELEM. DIAG. NO. 12
7A-D	SCUM TANK MIXER	COMB. MAG. STR. FVNR W/ 7/3 MCP SET 12M	2		460	3	1	2		2	SEE ELEM. DIAG. NO. 7
7E-H	SUMP PUMP NO. 1	COMB. MAG. STR. FVNR W/ 3/3 MCP SET 11M	1/2		460	3	1	2	1	2	SEE ELEM. DIAG. NO. 8
7I-L	SUMP PUMP NO. 2	COMB. MAG. STR. FVNR W/ 3/3 MCP SET 11M	1/2		460	3	1	2	1	2	SEE ELEM. DIAG. NO. 8
7M-O	GRIT BASIN CONTROL PANEL	40/3 BREAKER			460	3					
7P-R	AIR HANDLER	30/3 BREAKER			460	3					
7S-U	CONDENSING UNIT	15/3 BREAKER			460	3					
7V-X	WATER HEATER	25/3 BREAKER		15	480	3					
8A-C	UH-5	15/3 BREAKER		3	480	3					
8D-I	SPACE	PROV. FOR FUT. PLUG IN UNIT			277/480	3					
8J-L	RAS PUMP CONTROL PANEL	100/3 BREAKER			460	3					
8M-P	WAS PUMP NO. 1	COMB. MAG. STR. FVNR W/ 30/3 MCP SET 15M	10		460	3	2	2	1	2	SEE ELEM. DIAG. NO. 13
8Q-T	WAS PUMP NO. 2	COMB. MAG. STR. FVNR W/ 30/3 MCP SET 15M	10		460	3	2	2	1	2	SEE ELEM. DIAG. NO. 13
8U-X	SCUM PUMP	COMB. MAG. STR. FVNR W/ 15/3 MCP SET 13M	71/2		460	3	1	4		3	SEE ELEM. DIAG. NO. 5



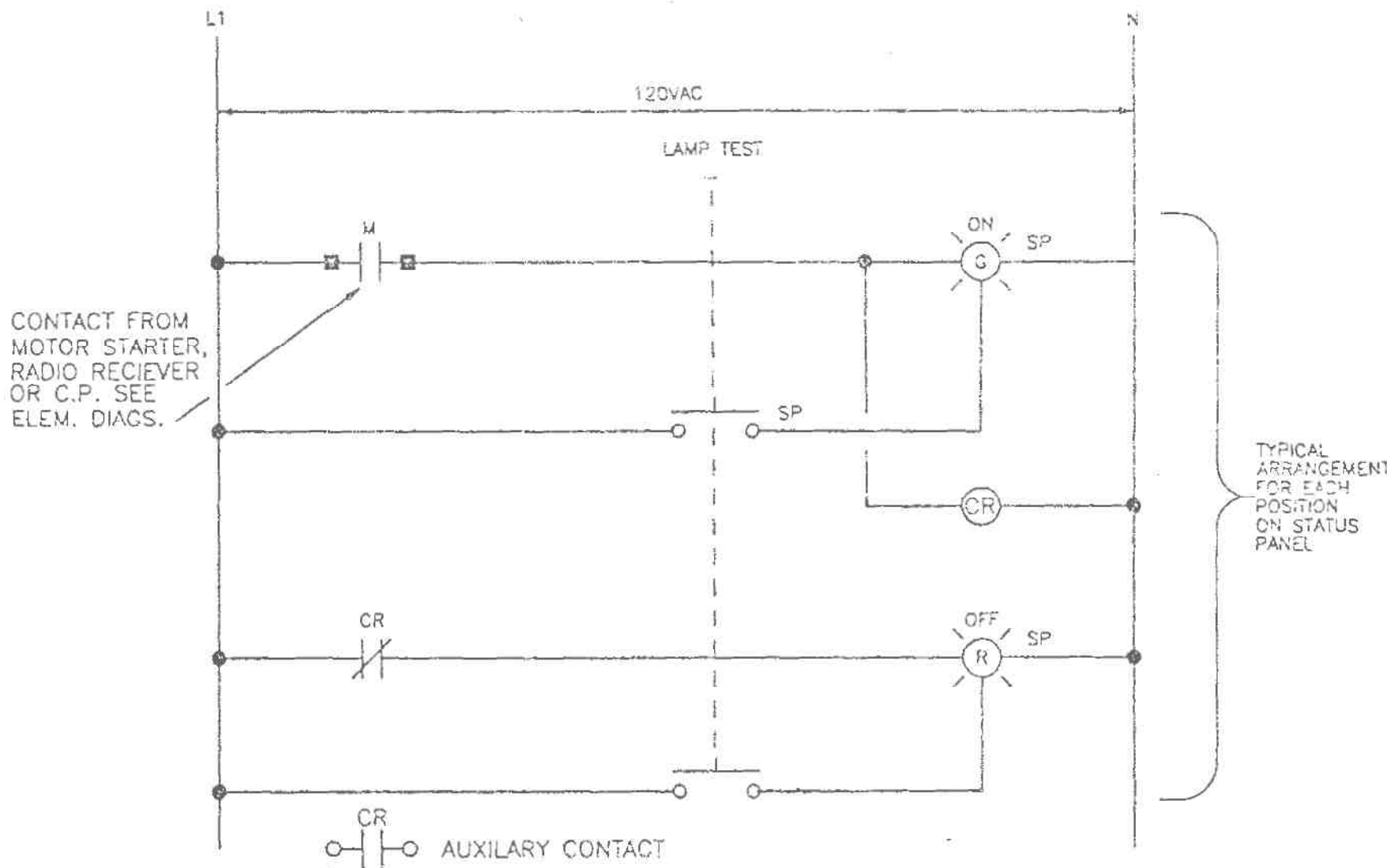
ALARM PANEL LAYOUT
SCALE : NONE
(TO BE REPLACED WITH HYDRALINK)

NOTE:
ALL CONTROLS AND ALARMS TO BE CONNECTED TO HYDRALINK
PROVIDE A NEW SCADA PANEL IN OPERATOR ROOM FOR SIGNALS FROM SCADA



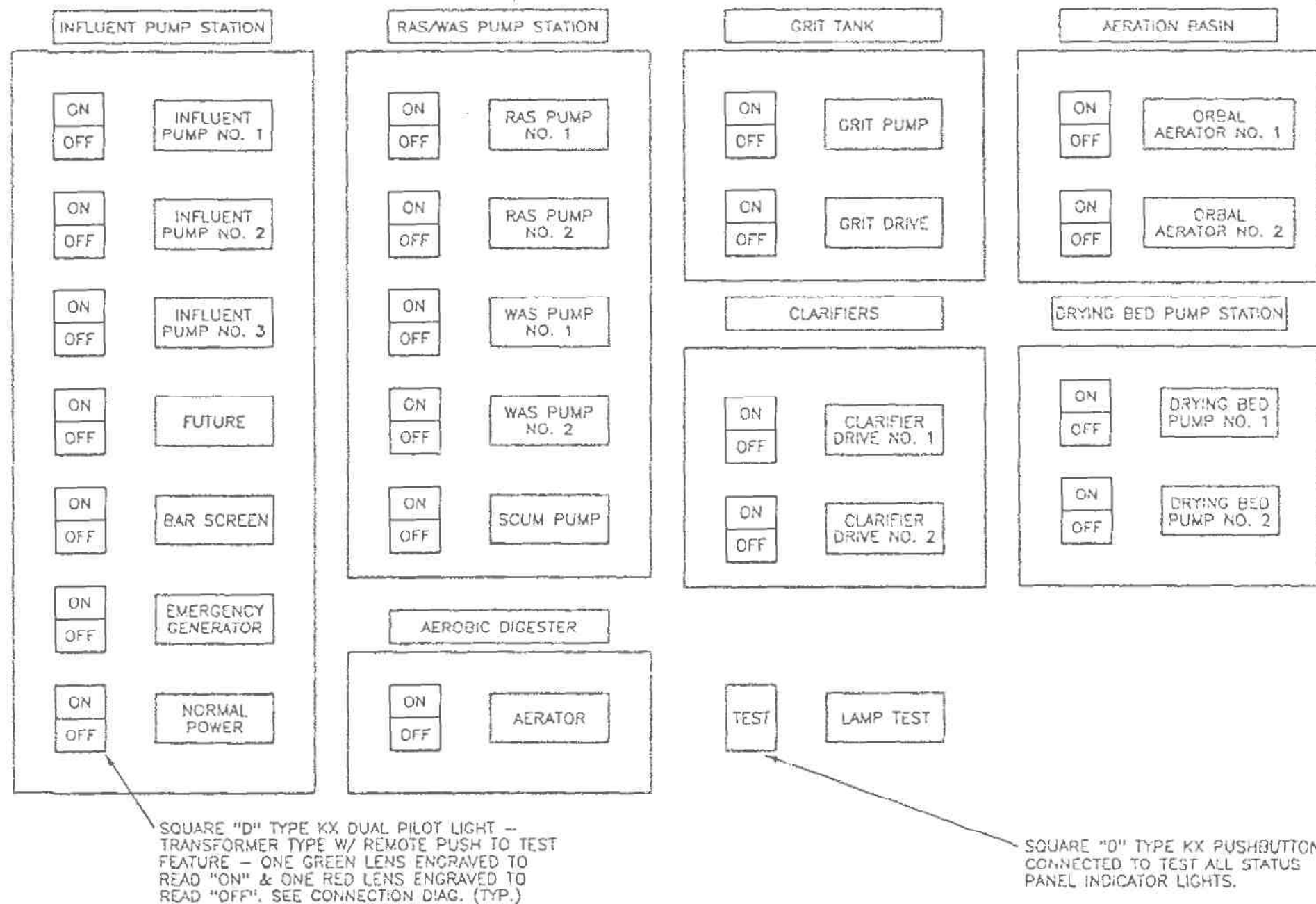
DETAIL "P"
STATUS/ALARM PANEL ARRANGEMENT
SCALE : NONE
(FOR REFERENCE ONLY)

EDWARDS TYPE 470 FLUSH MOUNTED LAMP ANNUNCIATOR W/ AUTO LAMP RESET RELAYS, LAMP TEST, AUDIBLE ALARM & SILENCE FEATURES. WINDOWS TO BE 3" X 3" TYPE A, TRANSLUCENT WHITE WITH BLACK ENGRAVED LETTERS. ENGRAVING PER LAYOUT (NOTE : WINDOWS MARKED "SPACE" SHALL NOT BE ENGRAVED.)



STATUS PANEL
CONNECTION DIAGRAM
SCALE : NONE
(TO BE REPLACED WITH HYDRALINK)

NOTE: CONNECT AUX. CONTACTS FOR INFLUENT PUMPS IN PARALLEL TO GRIT BASIN CONTROL PANEL TO ALLOW OPERATION OF PISTA GRIT SYSTEM ONLY WHEN ONE OR MORE PUMPS ARE RUNNING.



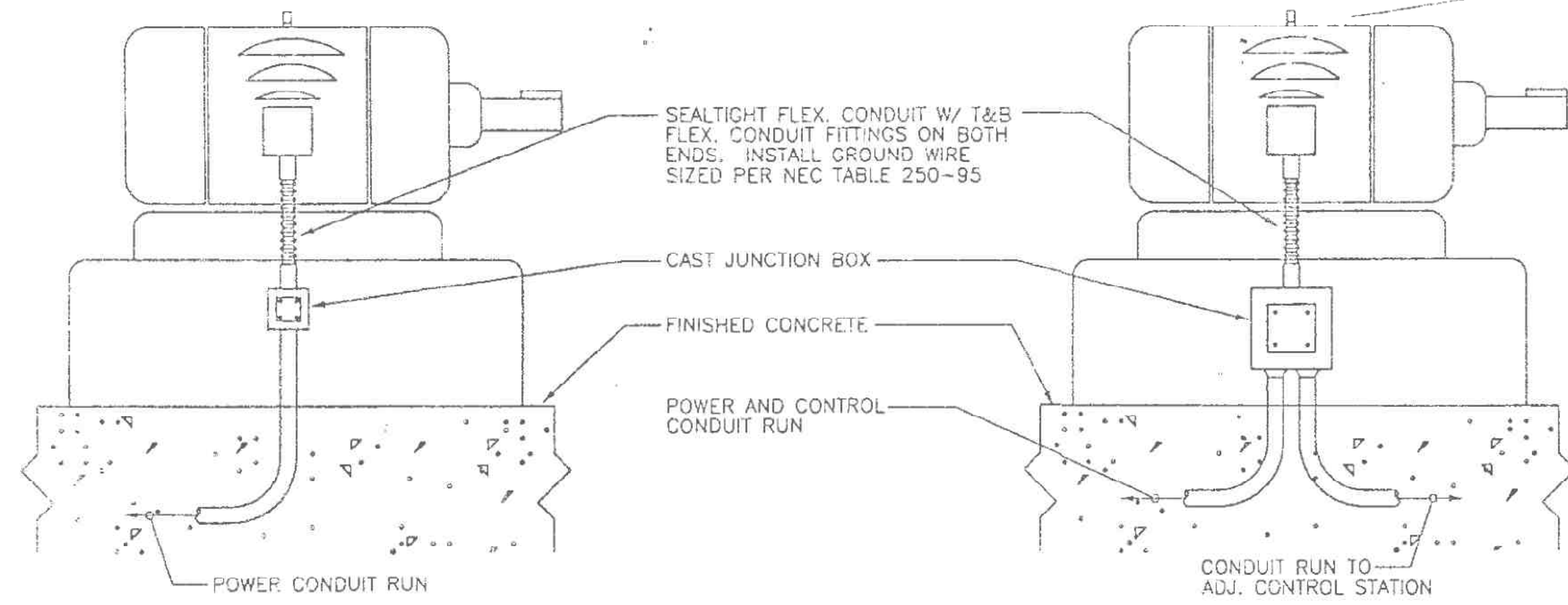
STATUS PANEL LAYOUT
SCALE : NONE
(TO BE REPLACED WITH HYDRALINK)

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

NO.	DATE	REMARKS	BY
		REVISIONS	

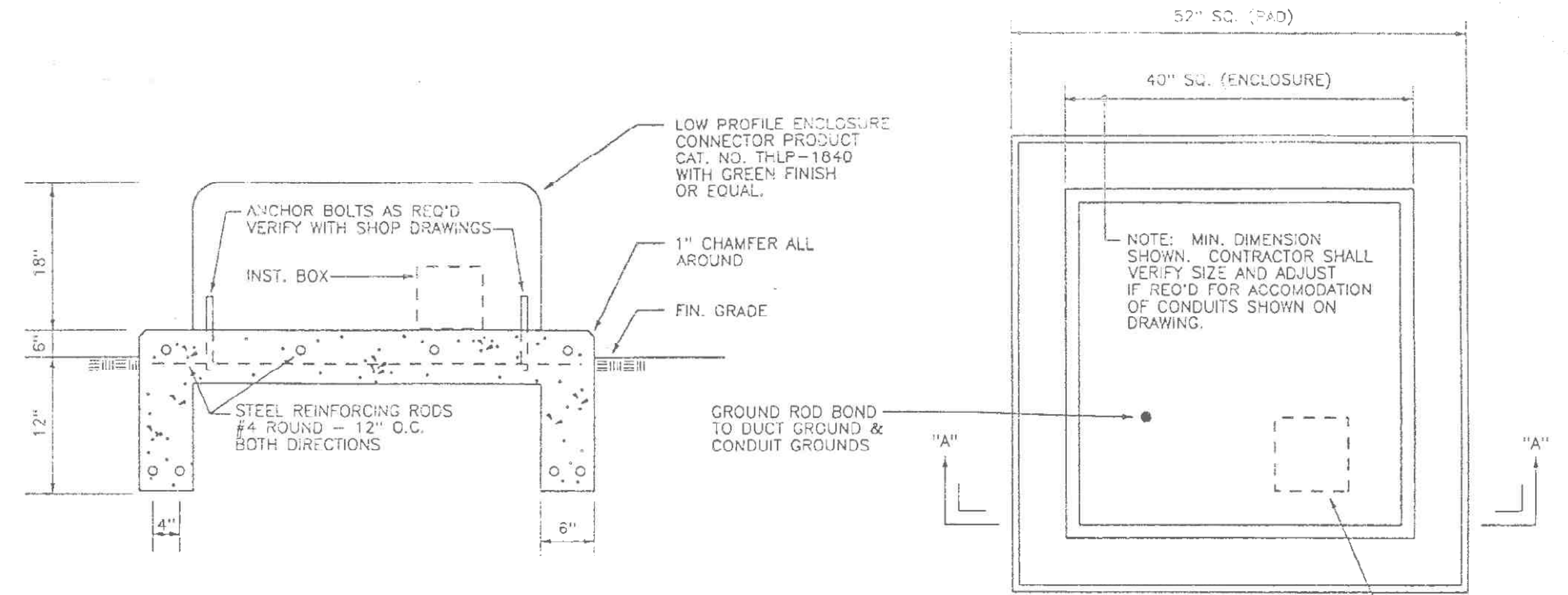
The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER TREATMENT PLANT
CWSRF PROJECT NO. C5G10403-05
CONTRACT NO. 2
EXISTING PANEL LAYOUTS

Utility Engineering Consultants, LLC
DESIGNED DBB
DRAWN LTH
SCALE AS NOTED
DATE FEB., 2025
APPROVED
REFERENCE LF24144L007.DGN
JOB NO. LF24 144
SHEET 30 OF 32

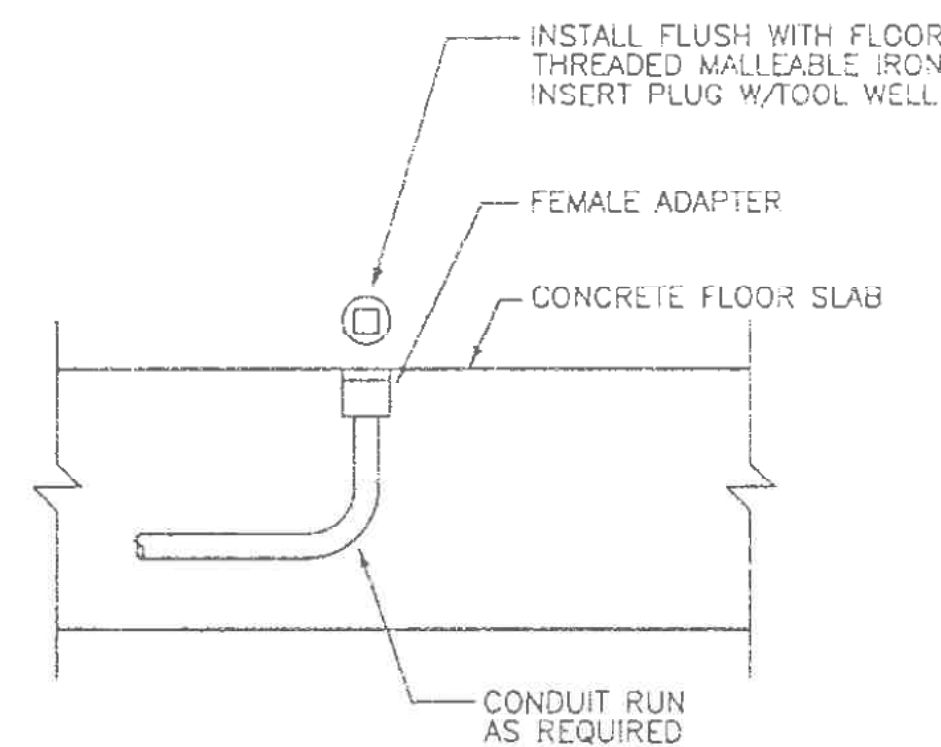


DETAIL "A"
ELEV. OF TYP. MOTOR FEEDER
CONNECTION
SCALE: NONE

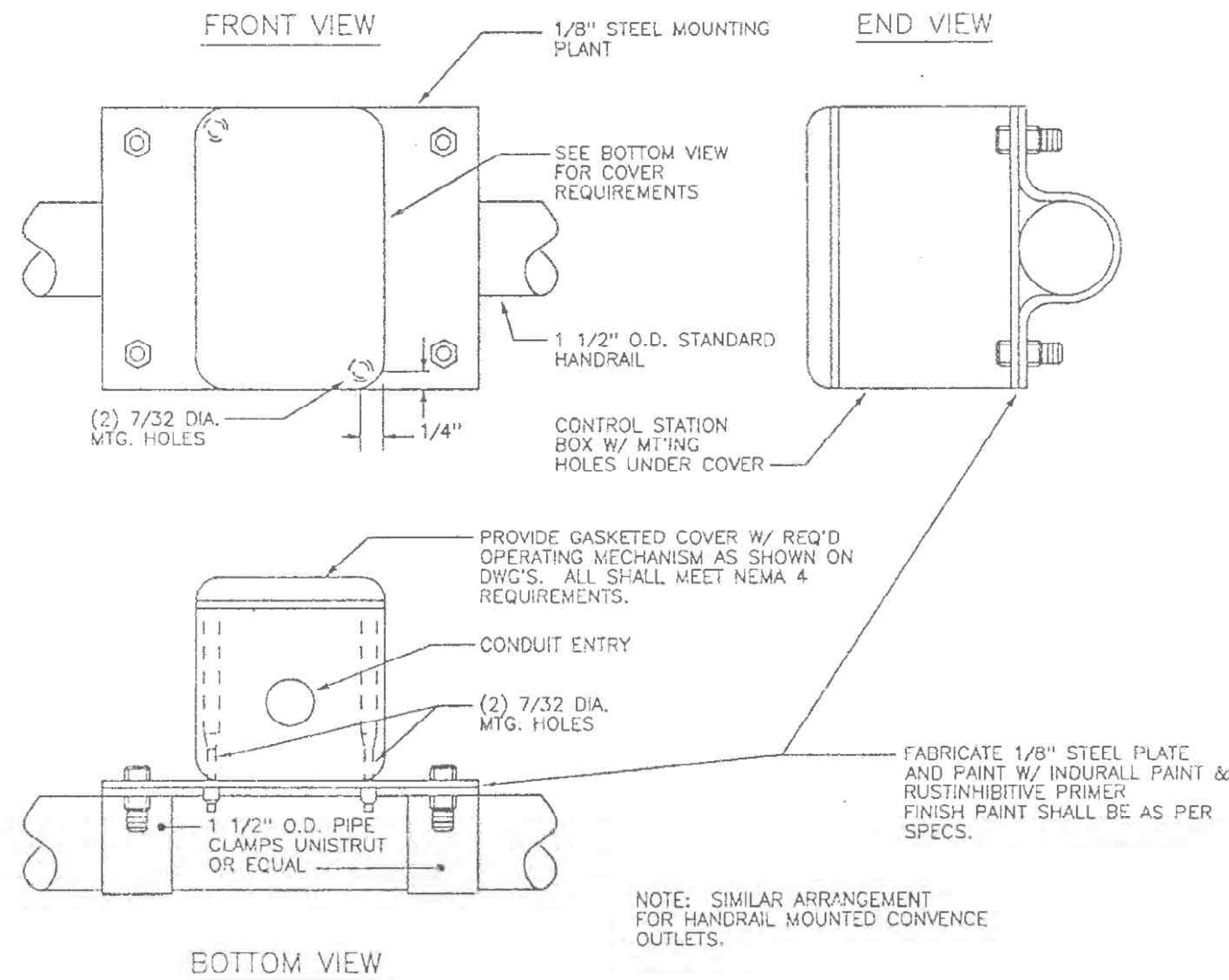
DETAIL "B"
ELEV. OF TYP. MOTOR FEEDER
CONNECTION W/ ADJ. CONTROL STATION
SCALE: NONE



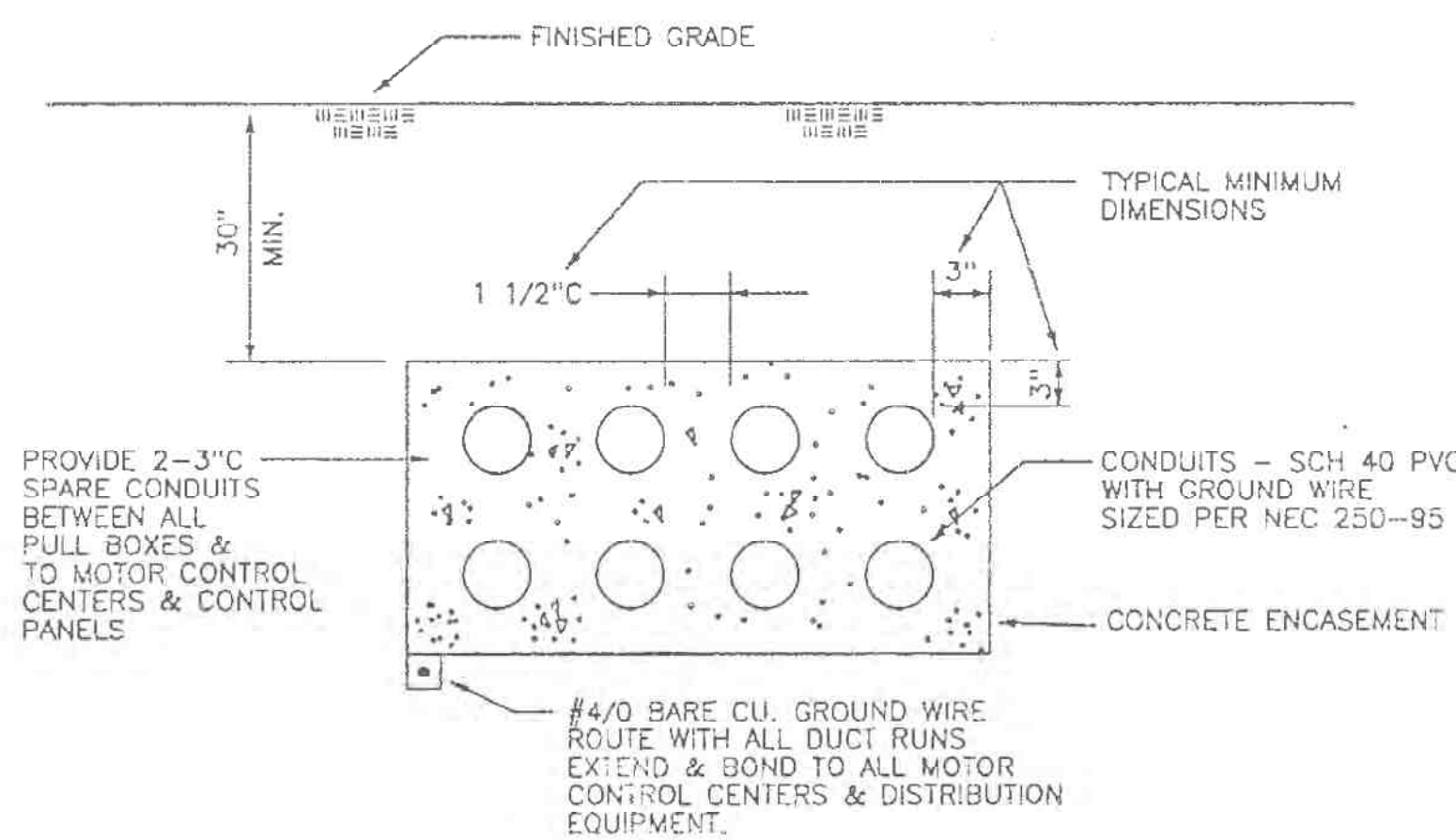
DETAIL "E"
TYPICAL PULL BOX
SCALE: NONE
NOTE: SEE DETAIL "L" FOR CONDUIT TERMINATIONS



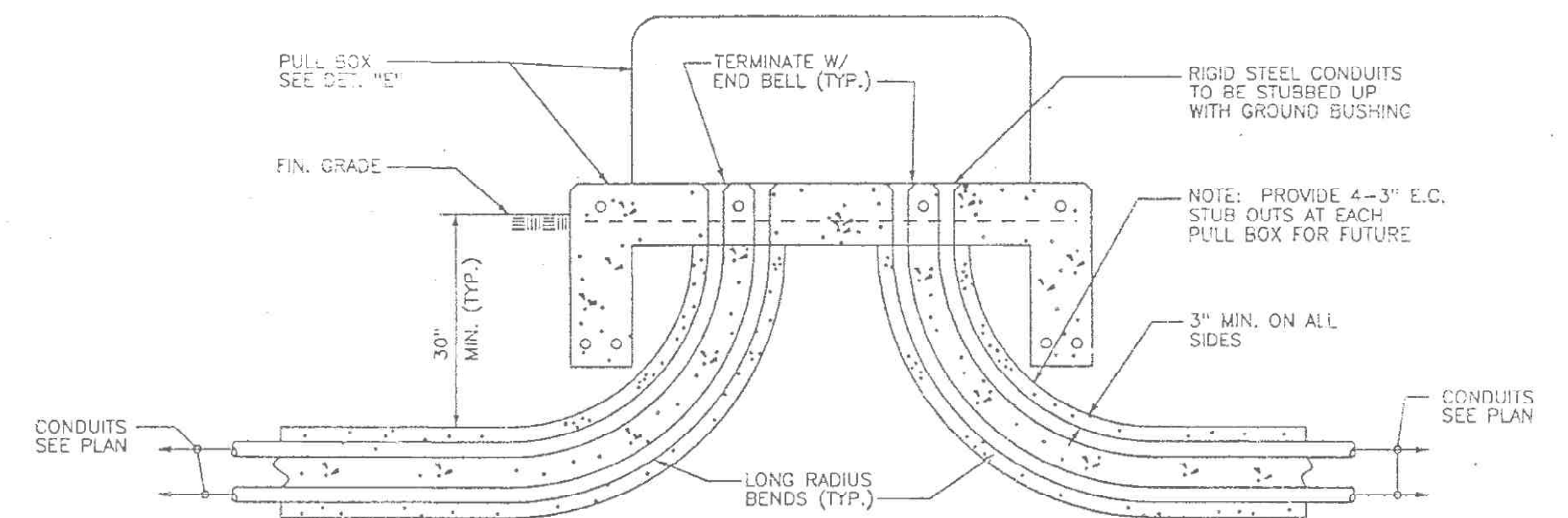
DETAIL "D"
CONDUIT STUB-UP
SCALE: NONE



DETAIL "C"
TYPICAL NEMA 4 CONTROL STATION
HANDRAIL MOUNTING
SCALE: NONE



DETAIL "G"
TYPICAL DUCT RUN SECTION
SCALE: NONE



DETAIL "F"
TYPICAL CONDUIT TERMINATION AT PULL BOX
SCALE: NONE

NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

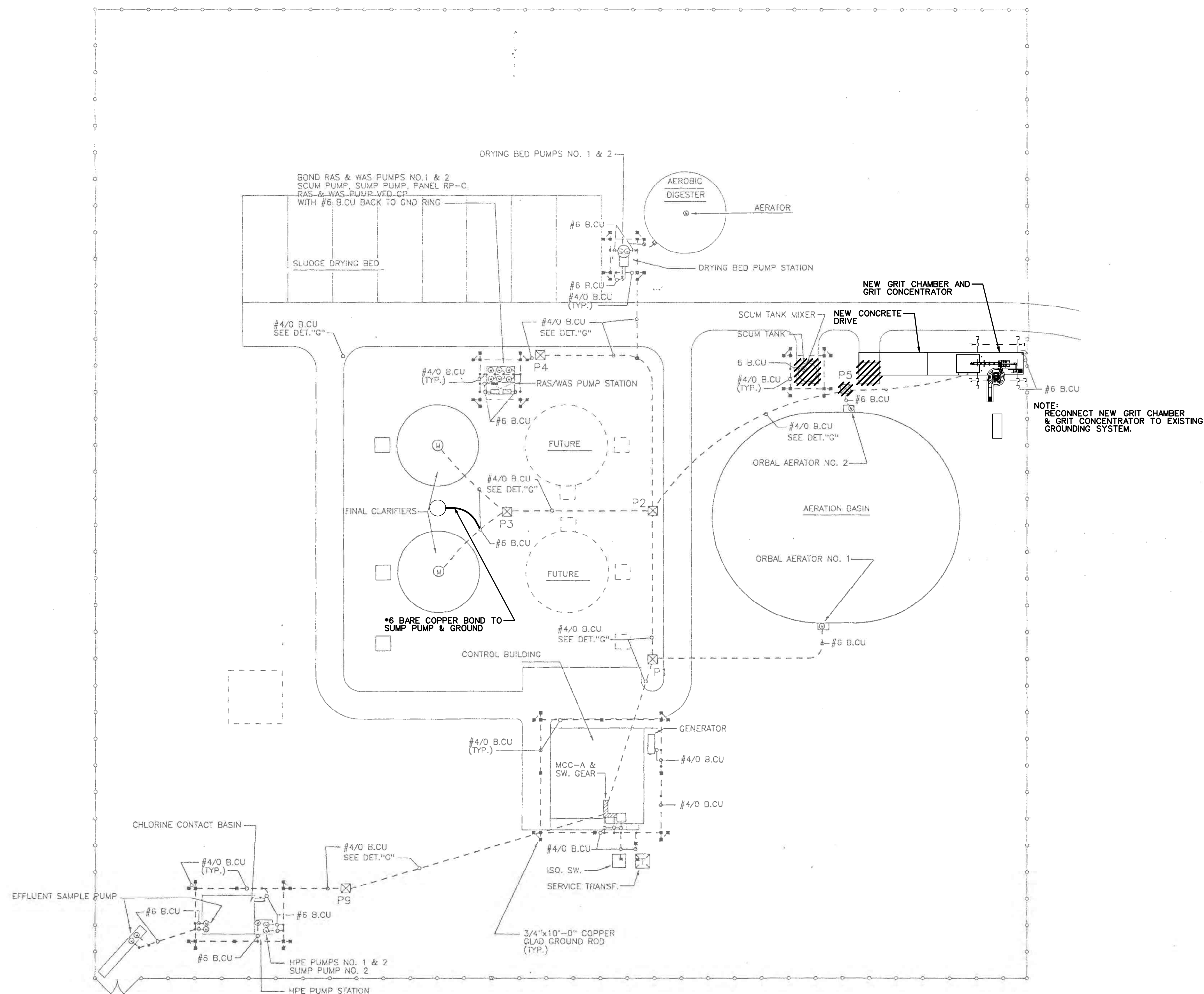
NO.	DATE	REMARKS	BY
REVISIONS			

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2
**ELECTRICAL
DETAILS**

**Utility
Engineering
Consultants, LLC**
130 SOUTHWEST DRIVE
SUITE 100
HOMECREEK, AL 35209

DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025
APPROVED <i>Due B. Butts</i>		REFERENCE LF24144L010.DGN	JOB NO. LF24 144
SHEET 31		OF 32	





**PLANT SITE
ELECTRICAL GROUNDING PLAN**
SCALE: NONE


NOTE:
INFORMATION ACQUIRED FROM
PAUL B. KREBS & ASSOCIATES, INC.
DRAWINGS.

LEGEND
 TO BE DEMOLISHED

NO.	DATE	REMARKS	BY
REVISIONS			

The City Of
LAFAYETTE, ALABAMA
Chambers County, Alabama
MILL CREEK WASTEWATER
TREATMENT PLANT
CWSRF PROJECT NO. CSG10403-05
CONTRACT NO. 2

**EXISTING SITE PLAN
GROUNDING**

		Utility Engineering Consultants, LLC		130 SOUTHWEST DRIVE SUITE 100 HOMECROOK, AL 35209	
DESIGNED DBB	DRAWN LTH	SCALE AS NOTED	DATE FEB., 2025		
APPROVED <i>Due B. Butts</i>	REFERENCE LF24144L012.DGN	JOB NO. LF24 144			
SHEET 32 OF 32					

