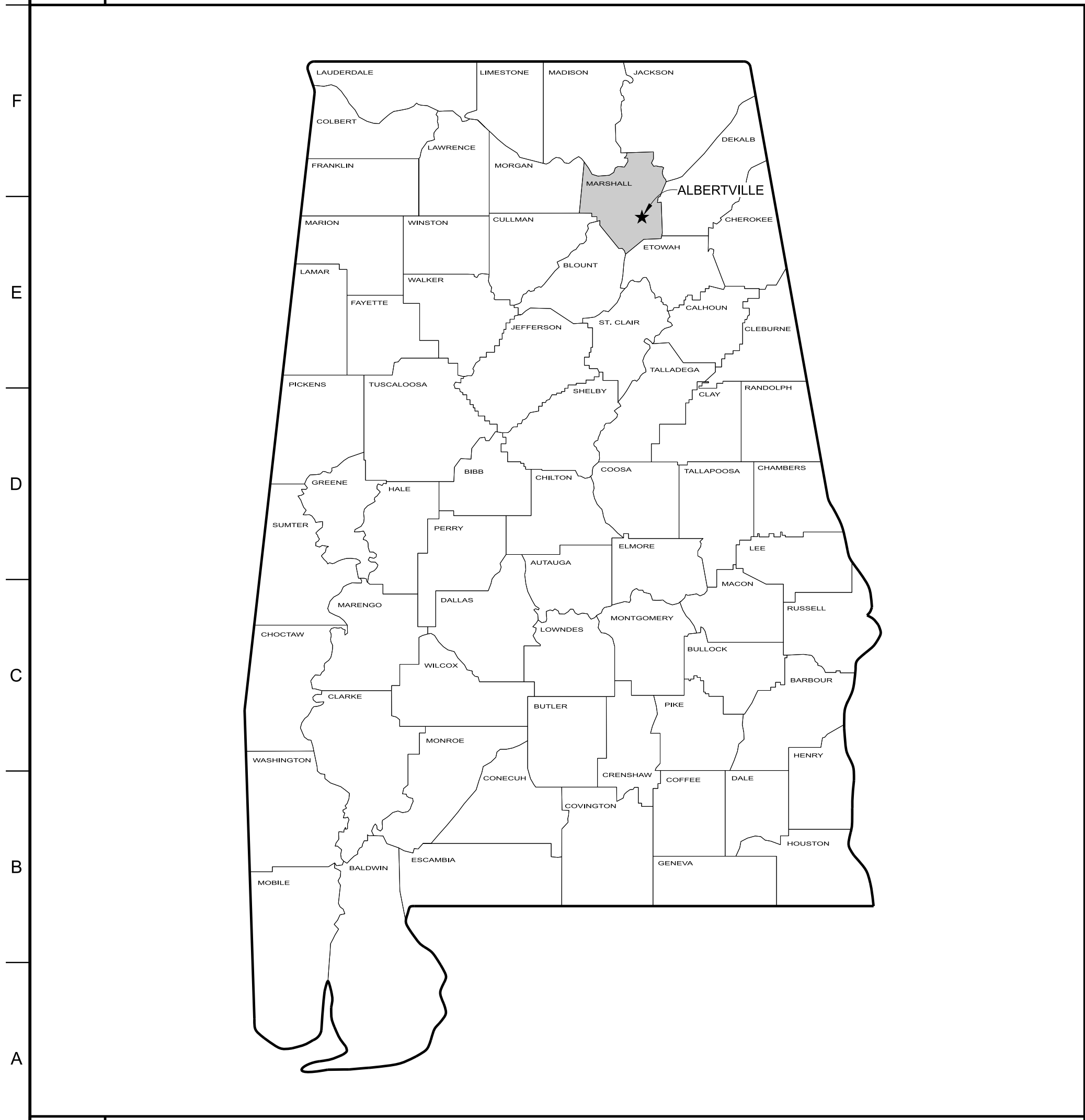


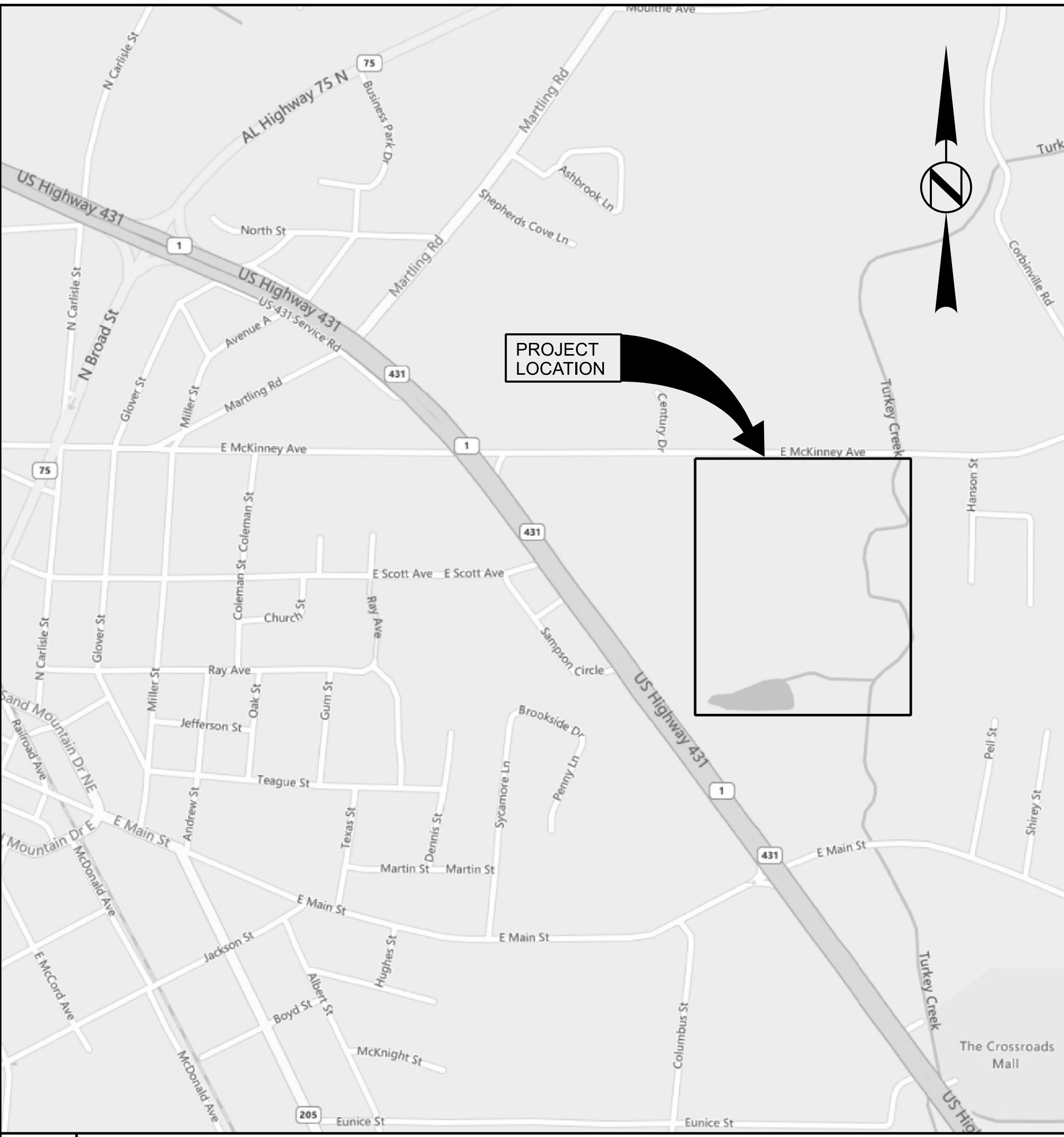




G1 PROJECT VICINITY MAP NO SCALE



A1 STATE LOCATOR NO SCALE



A6 PROJECT LOCATION MAP NO SCALE

SEQ. NO.	SHEET NO.	SHEET TITLE
1	G0-01	COVER SHEET
2	G0-02	LOCATION MAP & SHEET INDEX
3	G0-03	STANDARD SYMBOLS & ABBREVIATIONS
4	S0-01	STRUCTURAL NOTES
5	C0-01	OVERALL EXISTING SITE PLAN
6	C0-02	OVERALL EXISTING YARD PIPING PLAN
7	C2-01	OVERALL SITE PLAN
8	C2-02	PARTIAL SITE GRADING, DRAINAGE, & EROSION CONTROL PLAN
9	C2-03	PARTIAL YARD PIPING PLAN
10	C2-04	YARD PIPING PROFILES
11	C3-01	RAS/WAS JUNCTION BOX PLAN & SECTION
12	C4-01	NEW FINAL CLARIFIER PLAN & SECTION
13	C4-02	NEW FINAL CLARIFIER PLAN & SECTIONS
14	S4-01	NEW FINAL CLARIFIER - STRUCTURAL PLAN
15	S4-02	NEW FINAL CLARIFIER - STRUCTURAL DETAILS
16	S4-03	STRUCTURAL DETAILS
17	DT-01	MISCELLANEOUS DETAILS
18	DT-02	MISCELLANEOUS DETAILS
19	DT-03	EROSION CONTROL NOTES & DETAILS
20	E0-01	ELECTRICAL LEGEND, NOTES & SCHEDULE
21	E0-02	ELECTRICAL SCHEDULES
22	E0-03	ELEMENTARY DIAGRAMS
23	E2-01	OVERALL SITE ELECTRICAL PLANS
24	E4-01	FINAL CLARIFIER NO. 3 ELECTRICAL PLANS
25	DTE-01	ELECTRICAL DETAILS
26	DTE-02	ELECTRICAL DETAILS
27	DTE-03	ELECTRICAL DETAILS



Project No. 21024

MUNICIPAL UTILITIES BOARD OF ALBERTVILLE  
 EASTSIDE WWTP  
 FINAL CLARIFIER IMPROVEMENTS  
 ALBERTVILLE, ALABAMA



Designed KAM / ASM	Project No. 21024
Drawn CLM	
Checked MAS	

Revisions	No.	Date	Description
	1	02/16/26	ISSUED FOR BID


LOCATION MAP & SHEET INDEX

Issue Date FEB., 2026	Sheet No. G0-02
Sequence 2 of 27	

Revisions		
No.	Date	Description
1	02/18/26	ISSUED FOR BID

	STORM DRAIN MANHOLE		MANHOLE
	SANITARY SEWER MANHOLE		CLEANOUT
	SANITARY SEWER CLEANOUT		UTILITY LINE (SIZE AND TYPE NOTED)
	SANITARY SEWER (GRAVITY)		ENCASED PIPE (I.D. OF CASING & CARRIER NOTED)
	SANITARY SEWER (FORCEMAIN)		NON-CONNECTING PIPING
	WATER LINE (SIZE NOTED)		WATER METER (SIZE NOTED IF LARGER THAN 3/4")
	NON-CONNECTING PIPING		VALVE (TYPE NOTED)
	WATER METER (SIZE NOTED IF LARGER THAN 3/4")		FIRE HYDRANT
	FIRE HYDRANT		AIR RELEASE VALVE
	AIR RELEASE VALVE		TAPPING SLEEVE AND VALVE
	GAS LINE (SIZE NOTED)		TAPPING SADDLE AND VALVE
	GAS METER		SLEEVE
	GAS LAMP		CONCRETE BRACE
	GAS VALVE		PLUG W/CONCRETE CROSS ANCHOR
	GAS REGULATOR		GAS METER
	UTILITY LINE MARKER		GAS LAMP
	OVERHEAD POWER LINE		GAS REGULATOR
	UNDERGROUND POWER LINE		
	POWER/TELEPHONE LINE		

**G10 PROPOSED UTILITIES**

	TREE		MAILBOX
	SHRUB		TRAFFIC/STREET SIGN
	HEDGEROW		OUTDOOR ADVERTISING SIGN (BILLBOARD)
	TREE LINE/WOODED AREA		EXISTING BUILDING/STRUCTURE
	ROCK OUTCROPPING		EXISTING STORM DRAIN W/HEADWALL (SIZE AND TYPE NOTED)
	SLOPE		NEW STORM DRAIN W/HEADWALL (SIZE AND TYPE NOTED)
	FLOWER BED, GARDEN, ROCK GARDEN (NOTED)		EXISTING BRIDGE OR CULVERT
	RIVER/STREAM (ARROW INDICATES FLOW)		EXISTING ASPHALT ROAD OR DRIVE
	INTERMITTENT DITCH OR STREAM		NEW ASPHALT ROAD OR DRIVE
	LAKE OR POND		EXISTING ASPHALT ROAD WITH CURB AND GUTTER (DRAINAGE INLET SHOWN)
	SWAMP OR MARSH		NEW ASPHALT ROAD WITH CURB AND GUTTER (DRAINAGE INLET SHOWN)
	EXISTING GROUND CONTOUR		EXISTING CONCRETE ROAD OR DRIVE
	FINISH GROUND CONTOUR		NEW CONCRETE ROAD OR DRIVE
	RAILROAD		EXISTING UNPAVED ROAD OR DRIVE
	FENCE (TYPE NOTED)		NEW UNPAVED ROAD OR DRIVE

	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	SANITARY SEWER (GRAVITY)
	SANITARY SEWER (FORCEMAIN)
	WATER LINE (SIZE NOTED)
	NON-CONNECTING PIPING
	WATER METER (SIZE NOTED IF LARGER THAN 3/4")
	FIRE HYDRANT
	AIR RELEASE VALVE
	GAS LINE (SIZE NOTED)
	GAS METER
	GAS LAMP
	GAS VALVE
	GAS REGULATOR
	UTILITY LINE MARKER
	OVERHEAD POWER LINE
	UNDERGROUND POWER LINE
	POWER/TELEPHONE LINE
	LIGHT POLE
	GUY WIRE
	POWER MANHOLE
	OVERHEAD TELEPHONE LINE
	UNDERGROUND TELEPHONE LINE
	FIBER OPTIC CABLE (UNDERGROUND)
	CABLE TV (UNDERGROUND)
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	JUNCTION BOX (LETTER DENOTES UTILITY)

**D7 EXISTING UTILITIES**

	SURVEY LINE AND POINT OF INTERSECTION
	BENCHMARK
	MONUMENT (SIZE AND TYPE NOTED)
	RIGHT-OF-WAY LINE
	PERMANENT EASEMENT BOUNDARY
	LAND HOOK
	IRON PIN FOUND (SIZE AND TYPE NOTED)
	IRON PIN SET (SIZE AND TYPE NOTED)

	SECTION LINE
	1/4 SECTION LINE
	1/4-1/4 SECTION LINE
	SECTION CORNER OR 1/4 SECTION CORNER (TYPE AND DESCRIPTION NOTED)
	CITY OR TOWN LIMITS
	PROPERTY LINE
	IRON PIN FOUND (SIZE AND TYPE NOTED)
	IRON PIN SET (SIZE AND TYPE NOTED)

**D1 ABBREVIATIONS**

	SECTION NUMBER
	DETAIL NUMBER
	SECTION MARKER
	DETAIL MARKER
	BUILDING SECTION
	WALL SECTION
	SOIL TEST BORING
	DEMOLITION AND DISPOSAL

**A1 GENERAL SYMBOLS**

	SECTION NUMBER
	DETAIL NUMBER
	SECTION MARKER
	DETAIL MARKER
	BUILDING SECTION
	WALL SECTION
	SOIL TEST BORING
	DEMOLITION AND DISPOSAL

**A4 SURVEYING SYMBOLS**

	SECTION LINE
	1/4 SECTION LINE
	1/4-1/4 SECTION LINE
	SECTION CORNER OR 1/4 SECTION CORNER (TYPE AND DESCRIPTION NOTED)
	CITY OR TOWN LIMITS
	PROPERTY LINE
	IRON PIN FOUND (SIZE AND TYPE NOTED)
	IRON PIN SET (SIZE AND TYPE NOTED)

**A10 TOPOGRAPHY & INFRASTRUCTURE SYMBOLS**

	TREE
	SHRUB
	HEDGEROW
	TREE LINE/WOODED AREA
	ROCK OUTCROPPING
	SLOPE
	FLOWER BED, GARDEN, ROCK GARDEN (NOTED)
	RIVER/STREAM (ARROW INDICATES FLOW)
	INTERMITTENT DITCH OR STREAM
	LAKE OR POND
	SWAMP OR MARSH
	EXISTING GROUND CONTOUR
	FINISH GROUND CONTOUR
	RAILROAD
	FENCE (TYPE NOTED)

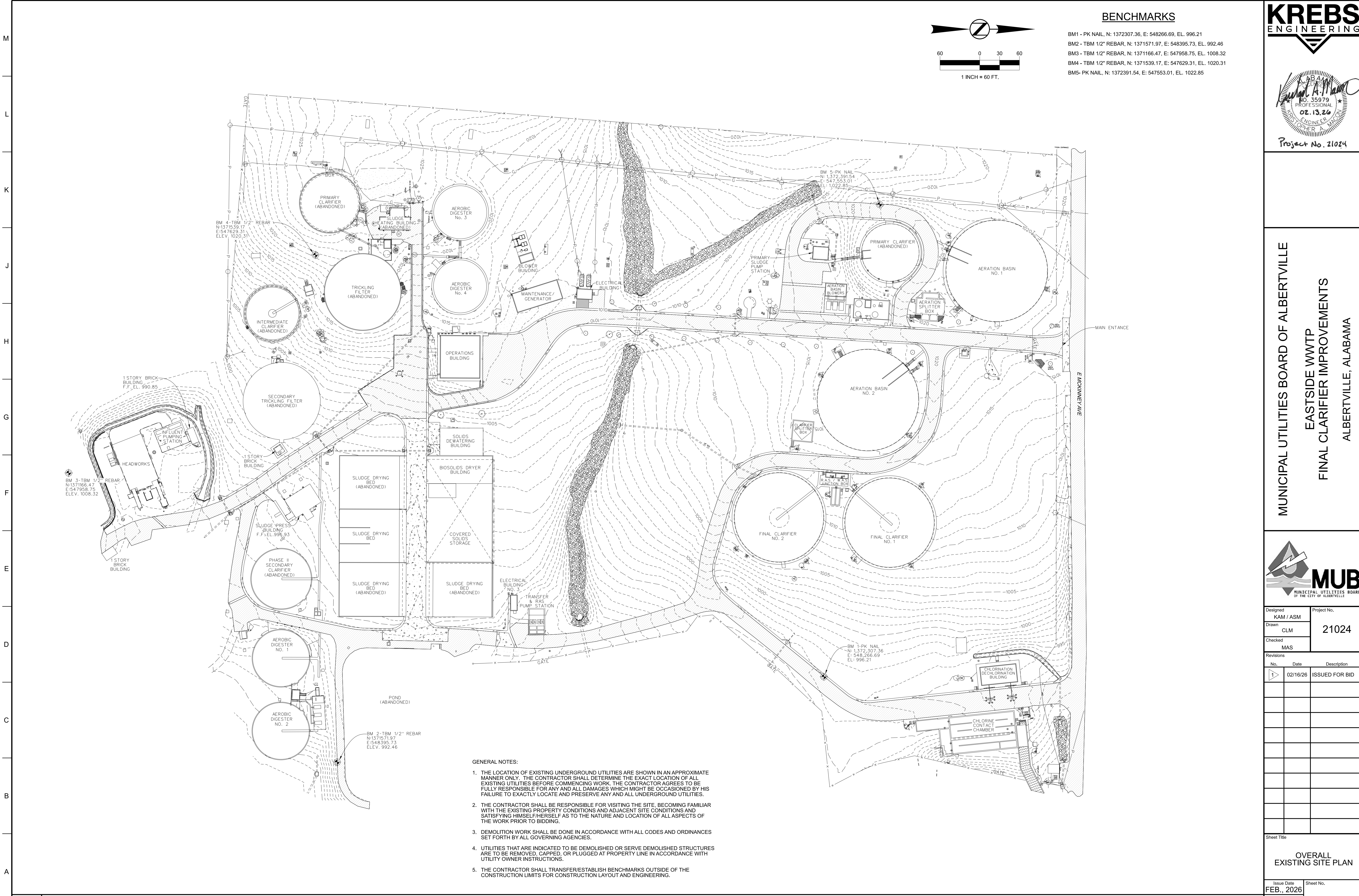
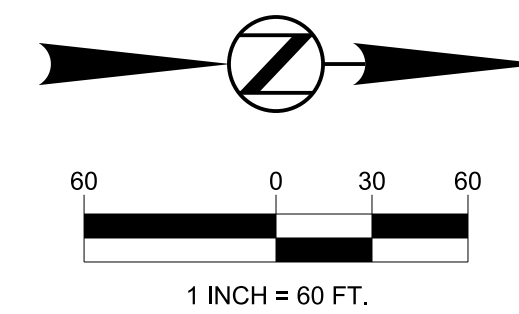




Project No. 21024

**BENCHMARKS**

- BM1 - PK NAIL, N: 1372307.36, E: 548266.69, EL. 996.21
- BM2 - TBM 1/2" REBAR, N: 1371571.97, E: 548395.73, EL. 992.46
- BM3 - TBM 1/2" REBAR, N: 1371166.47, E: 547958.75, EL. 1008.32
- BM4 - TBM 1/2" REBAR, N: 1371539.17, E: 547629.31, EL. 1020.31
- BM5- PK NAIL, N: 1372391.54, E: 547553.01, EL. 1022.85



**MUNICIPAL UTILITIES BOARD OF ALBERTVILLE**  
**EASTSIDE WWTreatment PLANT**  
**FINAL CLARIFIER IMPROVEMENTS**  
**ALBERTVILLE, ALABAMA**



Designed KAM / ASM	Project No. 21024
Drawn CLM	
Checked MAS	

No.	Date	Description
1	02/16/26	ISSUED FOR BID


Sheet Title	
<b>OVERALL EXISTING SITE PLAN</b>	
Issue Date <b>FEB., 2026</b>	Sheet No. <b>C0-01</b>
Sequence 5 of 27	

- GENERAL NOTES:**
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE, BECOMING FAMILIAR WITH THE EXISTING PROPERTY CONDITIONS AND ADJACENT SITE CONDITIONS AND SATISFYING HIMSELF/HERSELF AS TO THE NATURE AND LOCATION OF ALL ASPECTS OF THE WORK PRIOR TO BIDDING.
  - DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL CODES AND ORDINANCES SET FORTH BY ALL GOVERNING AGENCIES.
  - UTILITIES THAT ARE INDICATED TO BE DEMOLISHED OR SERVE DEMOLISHED STRUCTURES ARE TO BE REMOVED, CAPPED, OR PLUGGED AT PROPERTY LINE IN ACCORDANCE WITH UTILITY OWNER INSTRUCTIONS.
  - THE CONTRACTOR SHALL TRANSFER/ESTABLISH BENCHMARKS OUTSIDE OF THE CONSTRUCTION LIMITS FOR CONSTRUCTION LAYOUT AND ENGINEERING.

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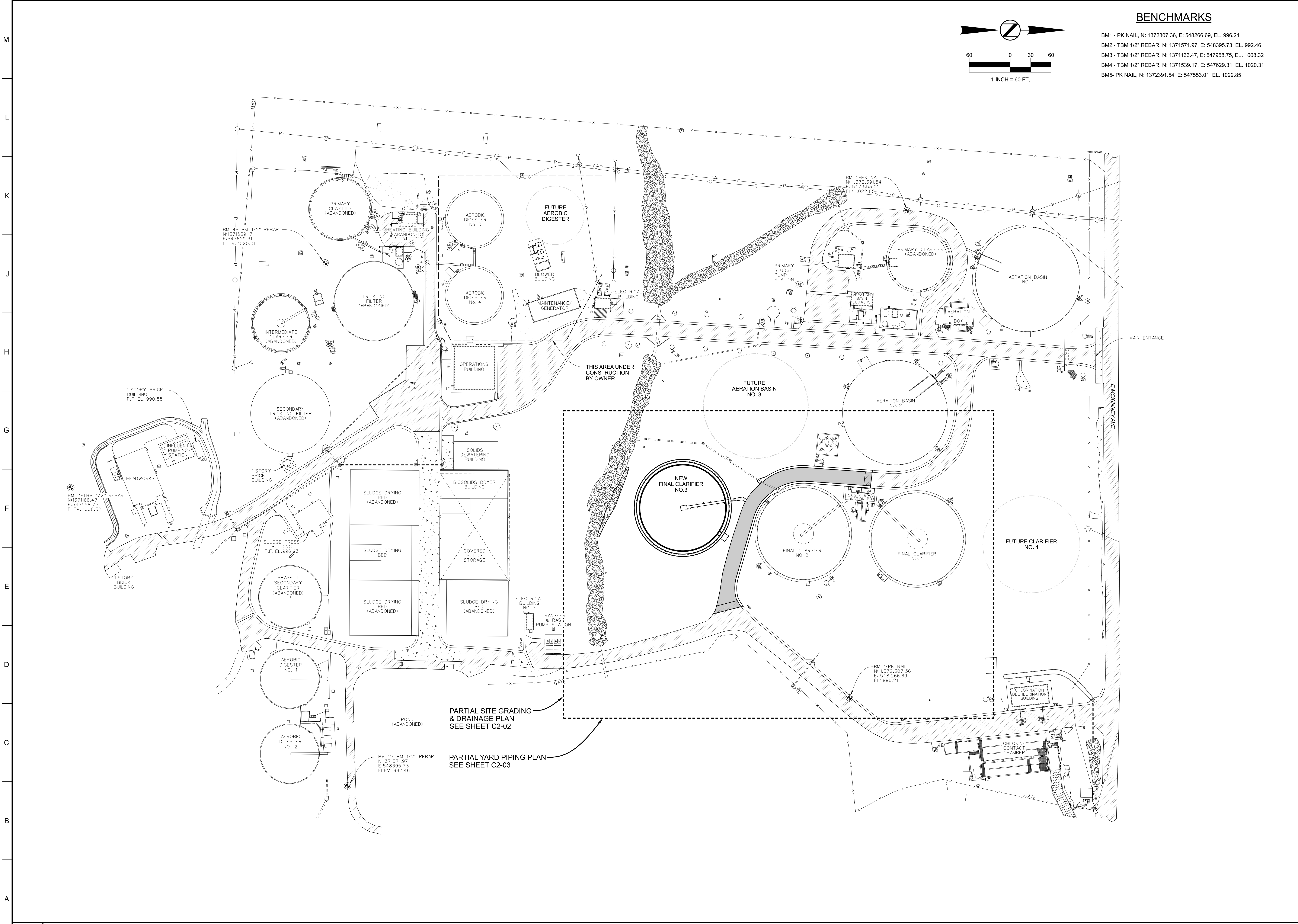
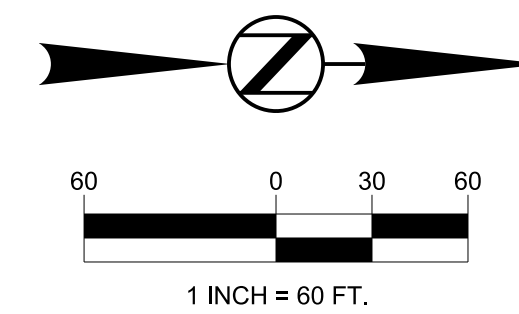




Project No. 21024

**BENCHMARKS**

- BM1 - PK NAIL, N: 1372307.36, E: 548266.69, EL. 996.21
- BM2 - TBM 1/2" REBAR, N: 1371571.97, E: 548395.73, EL. 992.46
- BM3 - TBM 1/2" REBAR, N: 1371166.47, E: 547958.75, EL. 1008.32
- BM4 - TBM 1/2" REBAR, N: 1371539.17, E: 547629.31, EL. 1020.31
- BM5- PK NAIL, N: 1372391.54, E: 547553.01, EL. 1022.85



PARTIAL SITE GRADING & DRAINAGE PLAN  
SEE SHEET C2-02

PARTIAL YARD PIPING PLAN  
SEE SHEET C2-03

**MUNICIPAL UTILITIES BOARD OF ALBERTVILLE**  
**EASTSIDE WWT**  
**FINAL CLARIFIER IMPROVEMENTS**  
**ALBERTVILLE, ALABAMA**



Designed KAM / ASM	Project No. 21024
Drawn CLM	
Checked MAS	

Revisions	No.	Date	Description
	1	02/16/26	ISSUED FOR BID

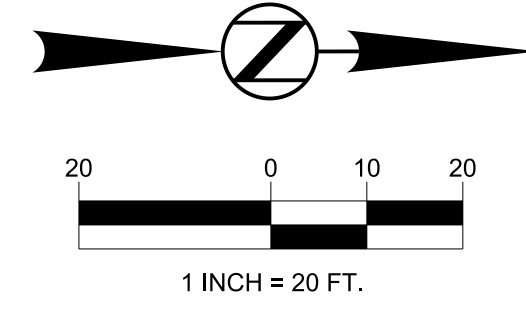

Sheet Title  
**OVERALL SITE PLAN**

Issue Date <b>FEB., 2026</b>	Sheet No. <b>C2-01</b>
Sequence 7 of 27	





Project No. 21024



MUNICIPAL UTILITIES BOARD OF ALBERTVILLE  
EASTSIDE WWTP  
FINAL CLARIFIER IMPROVEMENTS  
ALBERTVILLE, ALABAMA



Designed	KAM / ASM	Project No.	21024
Drawn	CLM		
Checked	MAS		

Revisions	No.	Date	Description
	1	02/16/26	ISSUED FOR BID

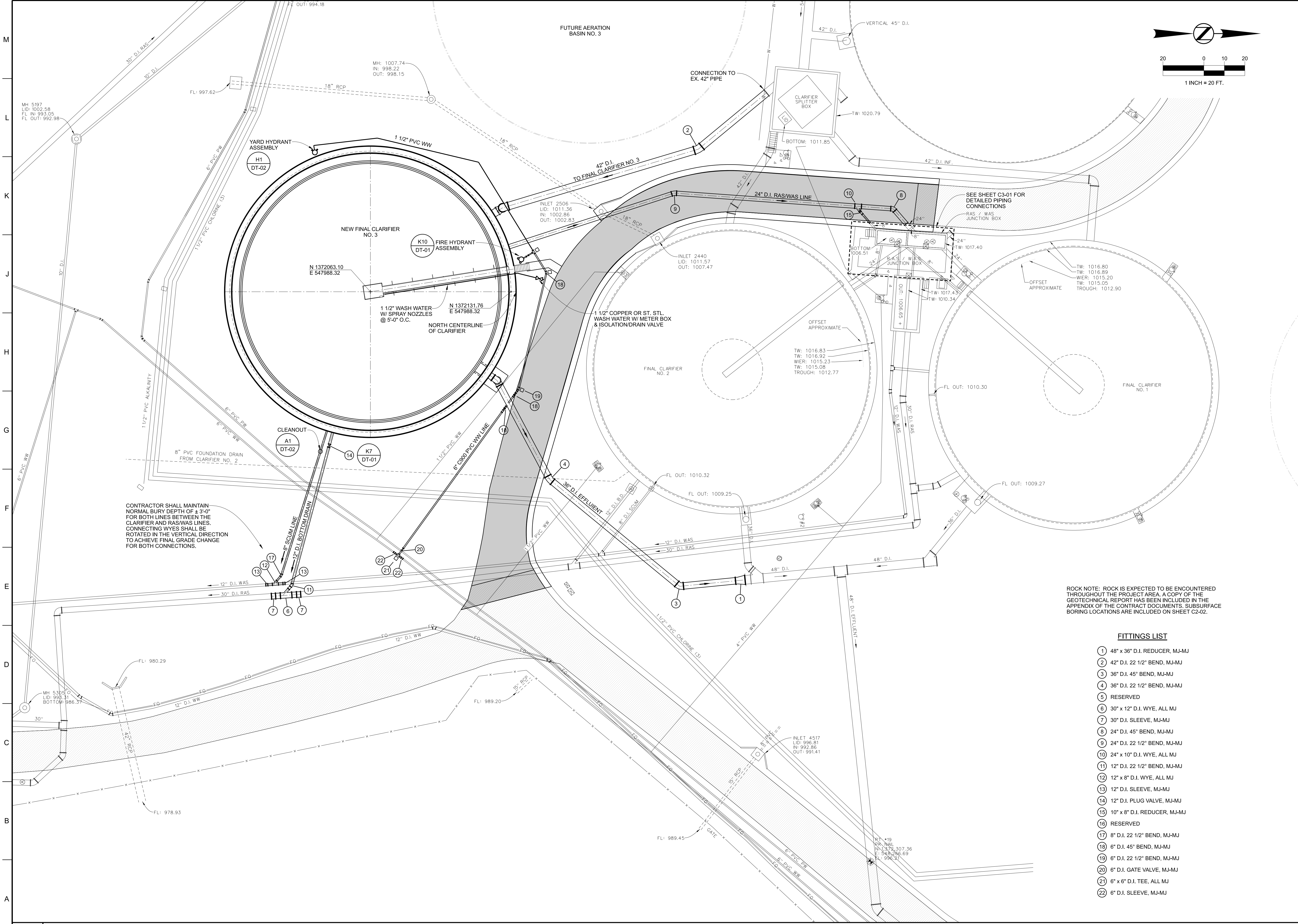

Sheet Title  
**PARTIAL YARD PIPING PLAN**

Issue Date	FEB., 2026	Sheet No.	C2-03
Sequence	9 of 27		

ROCK NOTE: ROCK IS EXPECTED TO BE ENCOUNTERED THROUGHOUT THE PROJECT AREA. A COPY OF THE GEOTECHNICAL REPORT HAS BEEN INCLUDED IN THE APPENDIX OF THE CONTRACT DOCUMENTS. SUBSURFACE BORING LOCATIONS ARE INCLUDED ON SHEET C2-02.

**FITTINGS LIST**

- ① 48" x 36" D.I. REDUCER, MJ-MJ
- ② 42" D.I. 22 1/2" BEND, MJ-MJ
- ③ 36" D.I. 45" BEND, MJ-MJ
- ④ 36" D.I. 22 1/2" BEND, MJ-MJ
- ⑤ RESERVED
- ⑥ 30" x 12" D.I. WYE, ALL MJ
- ⑦ 30" D.I. SLEEVE, MJ-MJ
- ⑧ 24" D.I. 45" BEND, MJ-MJ
- ⑨ 24" D.I. 22 1/2" BEND, MJ-MJ
- ⑩ 24" x 10" D.I. WYE, ALL MJ
- ⑪ 12" D.I. 22 1/2" BEND, MJ-MJ
- ⑫ 12" x 8" D.I. WYE, ALL MJ
- ⑬ 12" D.I. SLEEVE, MJ-MJ
- ⑭ 12" D.I. PLUG VALVE, MJ-MJ
- ⑮ 10" x 8" D.I. REDUCER, MJ-MJ
- ⑯ RESERVED
- ⑰ 8" D.I. 22 1/2" BEND, MJ-MJ
- ⑱ 6" D.I. 45" BEND, MJ-MJ
- ⑲ 6" D.I. 22 1/2" BEND, MJ-MJ
- ⑳ 6" D.I. GATE VALVE, MJ-MJ
- ㉑ 6" x 6" D.I. TEE, ALL MJ
- ㉒ 6" D.I. SLEEVE, MJ-MJ

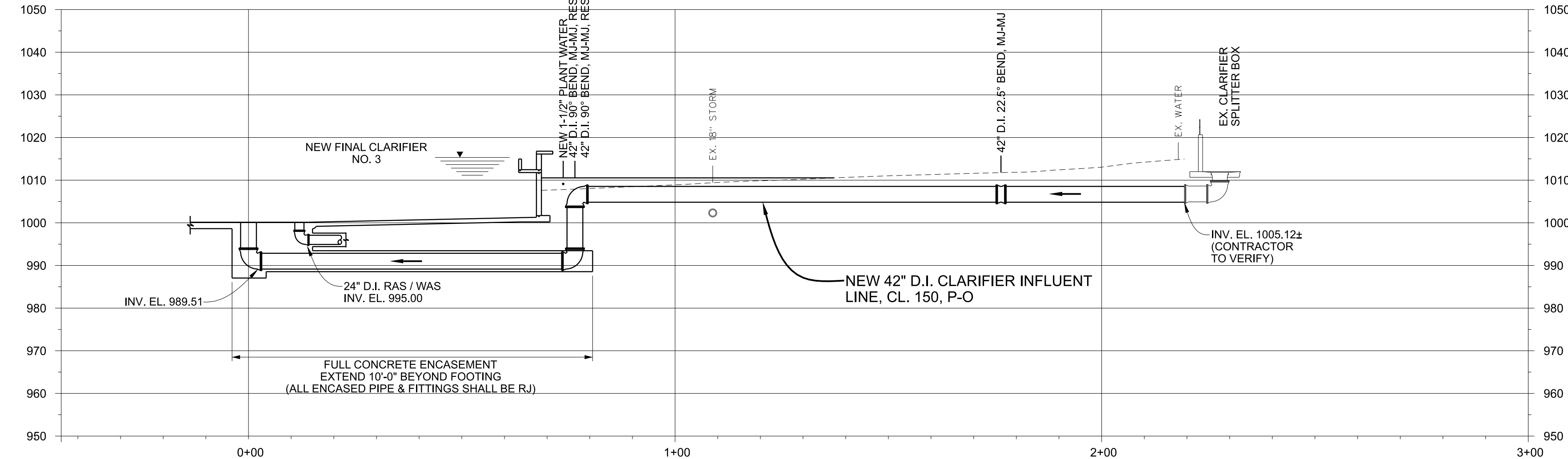


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Project No. 21024

MUNICIPAL UTILITIES BOARD OF ALBERTVILLE  
EASTSIDE WWTP  
FINAL CLARIFIER IMPROVEMENTS  
ALBERTVILLE, ALABAMA

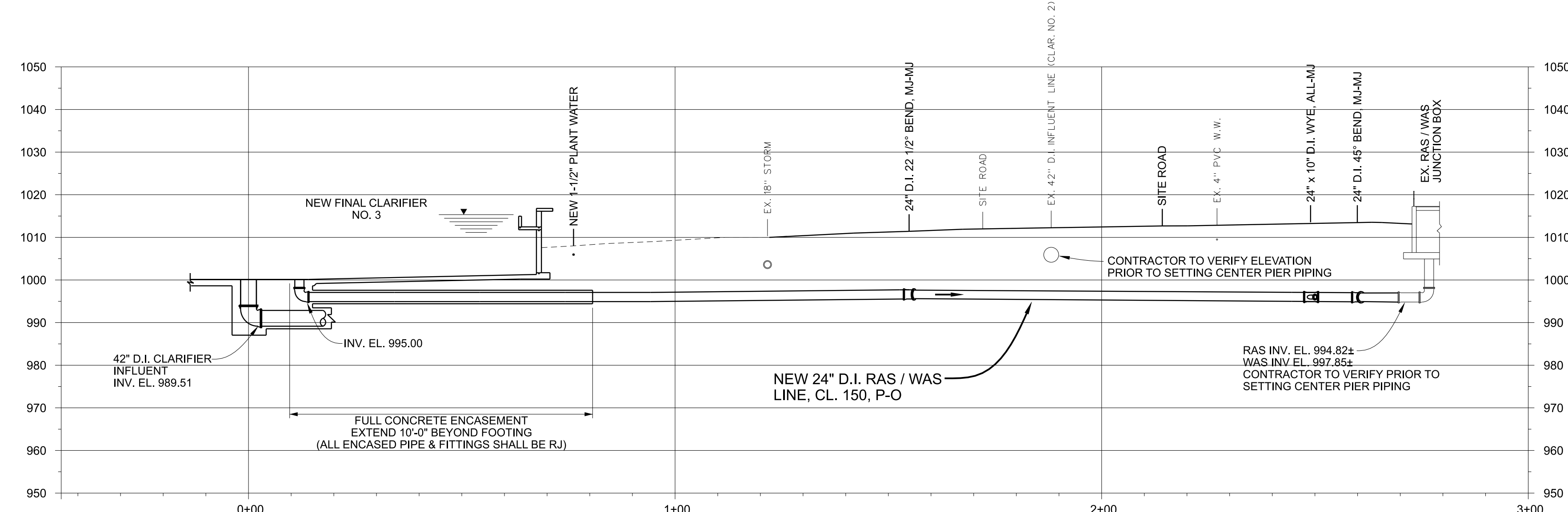


ROCK NOTE: ROCK IS EXPECTED TO BE ENCOUNTERED THROUGHOUT THE PROJECT AREA. A COPY OF THE GEOTECHNICAL REPORT HAS BEEN INCLUDED IN THE APPENDIX OF THE CONTRACT DOCUMENTS. SUBSURFACE BORING LOCATIONS ARE INCLUDED ON SHEET C2-02.

EXISTING ELEVATIONS: THE CONTRACTOR SHALL POTHOLE AND VERIFY ALL EXISTING PIPING TO CONFIRM ELEVATIONS PRIOR TO EXECUTING ANY WORK. NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES IN ELEVATIONS SHOWN.

J1 42" CLARIFIER INFLUENT FROM CLARIFIER SPLITTER BOX

1" = 20'

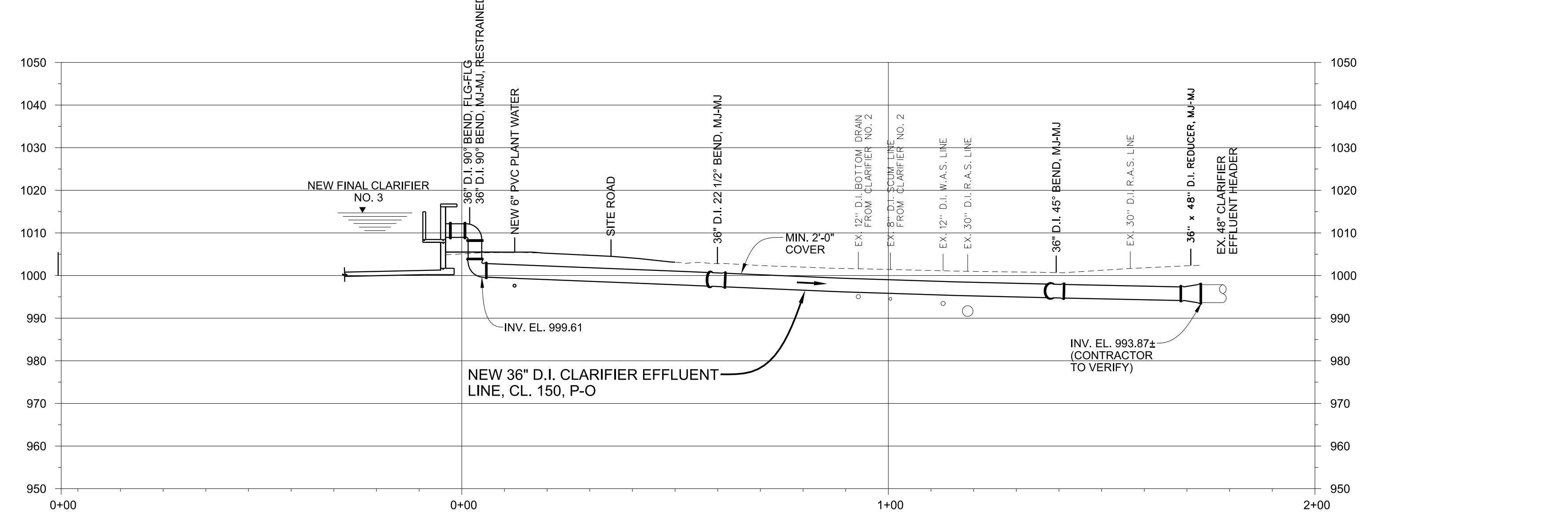


ROCK NOTE: ROCK IS EXPECTED TO BE ENCOUNTERED THROUGHOUT THE PROJECT AREA. A COPY OF THE GEOTECHNICAL REPORT HAS BEEN INCLUDED IN THE APPENDIX OF THE CONTRACT DOCUMENTS. SUBSURFACE BORING LOCATIONS ARE INCLUDED ON SHEET C2-02.

EXISTING ELEVATIONS: THE CONTRACTOR SHALL POTHOLE AND VERIFY ALL EXISTING PIPING TO CONFIRM ELEVATIONS PRIOR TO EXECUTING ANY WORK. NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES IN ELEVATIONS SHOWN.

E1 24" D.I. R.A.S. LINE FROM CLARIFIER NO. 3 TO R.A.S. / W.A.S. JUNCTION BOX

1" = 20'



ROCK NOTE: ROCK IS EXPECTED TO BE ENCOUNTERED THROUGHOUT THE PROJECT AREA. A COPY OF THE GEOTECHNICAL REPORT HAS BEEN INCLUDED IN THE APPENDIX OF THE CONTRACT DOCUMENTS. SUBSURFACE BORING LOCATIONS ARE INCLUDED ON SHEET C2-02.

EXISTING ELEVATIONS: THE CONTRACTOR SHALL POTHOLE AND VERIFY ALL EXISTING PIPING TO CONFIRM ELEVATIONS PRIOR TO EXECUTING ANY WORK. NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES IN ELEVATIONS SHOWN.

A1 36" D.I. EFFLUENT PIPE FROM CLARIFIER NO. 3 TO EX. 48" EFFLUENT HEADER

1" = 20'

Designed	KAM / ASM	Project No.	21024
Drawn	CLM		
Checked	MAS		

Revisions	No.	Date	Description
	1	02/16/26	ISSUED FOR BID


Sheet Title  
**YARD PIPING PROFILES**

Issue Date	Sheet No.
FEB., 2026	C2-04
Sequence	10 of 27

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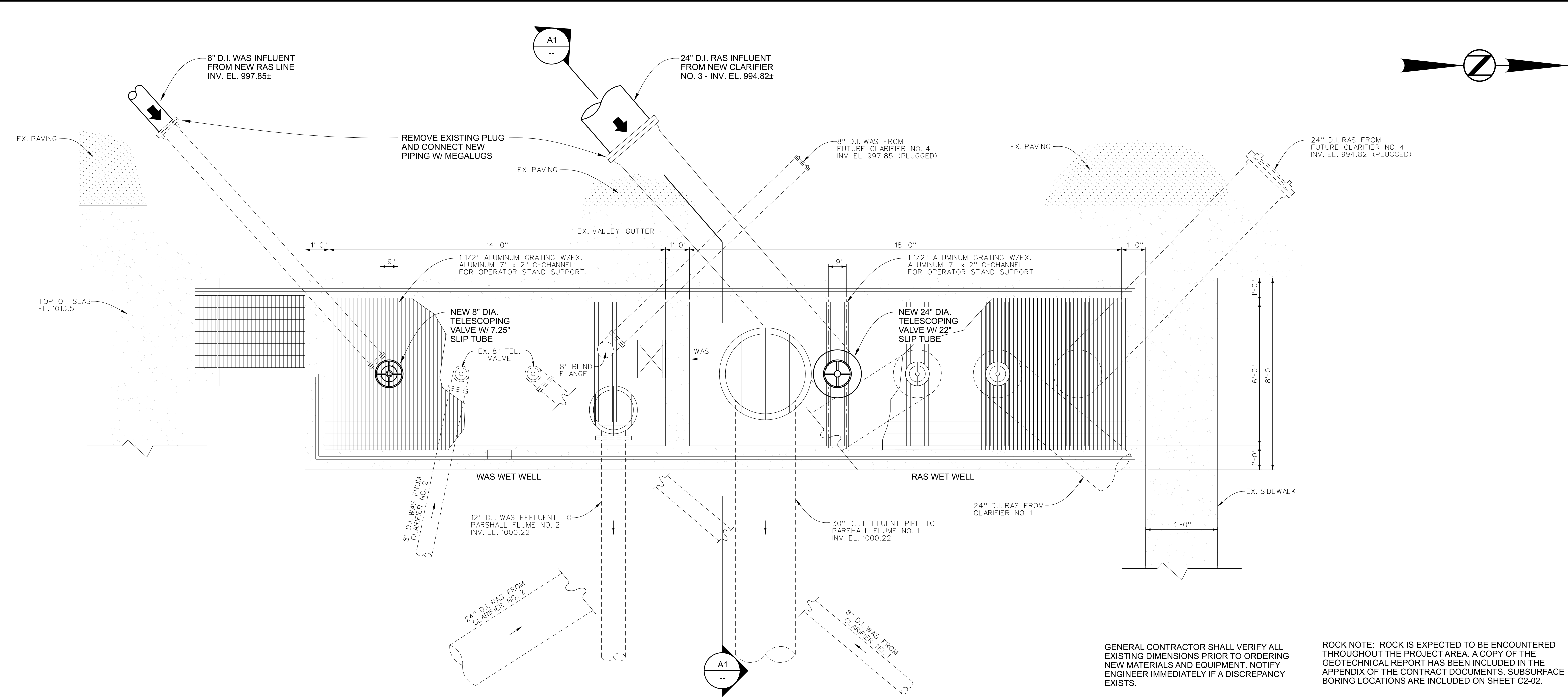


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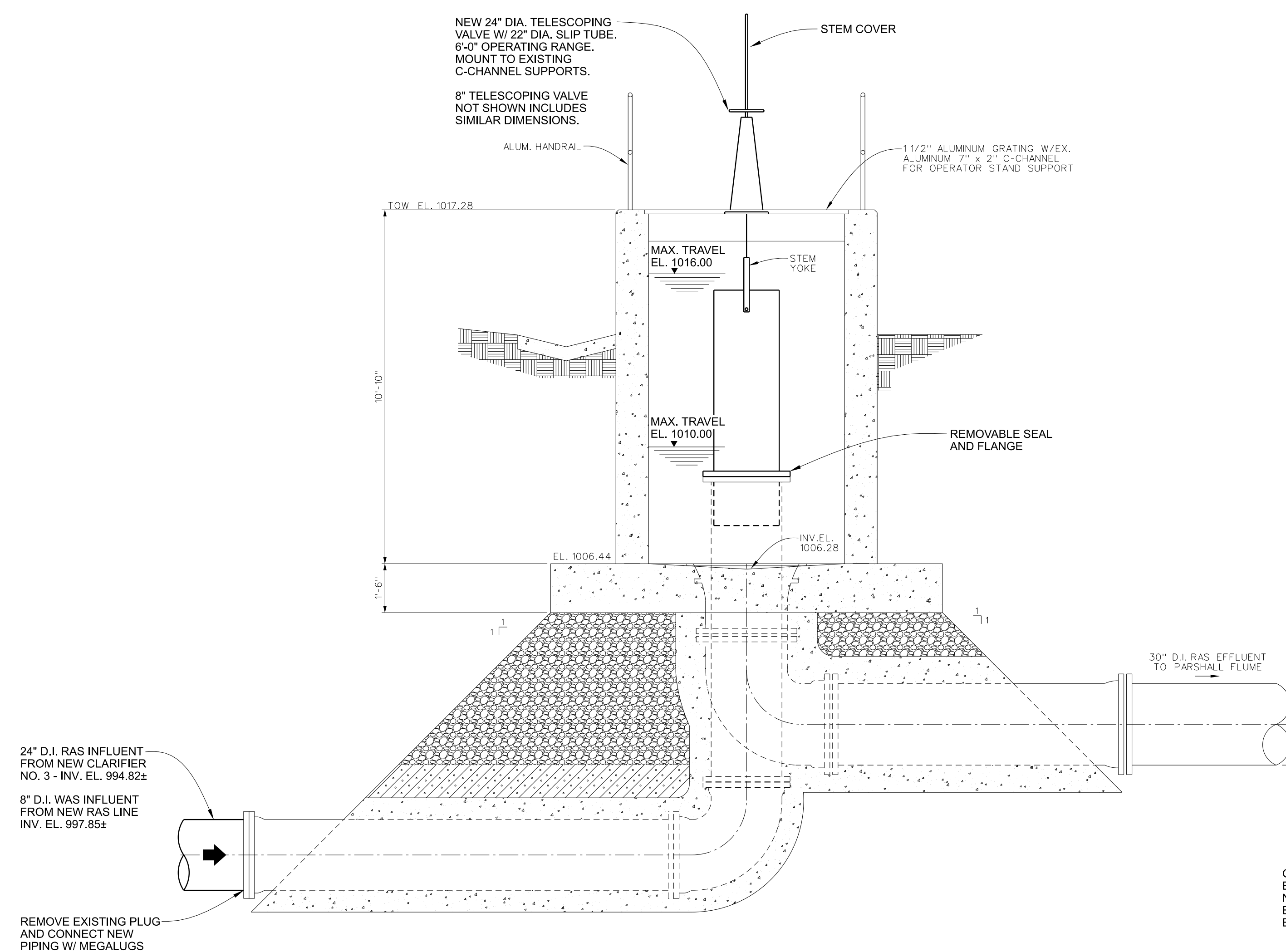
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Sheet Title  
**RAS/WAS JUNCTION BOX PLAN & SECTION**

Issue Date <b>FEB. 2026</b>	Sheet No. <b>C3-01</b>
Sequence 11 of 27	



G1 RAS / WAS JUNCTION BOX PLAN 3/8" = 1'-0"



- GENERAL NOTES:
- GENERAL CONTRACTOR SHALL VERIFY COMPATIBILITY BETWEEN TELESCOPING VALVE OPERATOR STAND AND EXISTING C-CHANNEL SUPPORTS. IF NECESSARY, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPPORTS FOR NEW TELESCOPING VALVES.
  - GENERAL CONTRACTOR SHALL CUT AND BAND ALUMINUM GRATING AS REQUIRED FOR THE INSTALLATION OR NEW OPERATOR STANDS.
  - ALL TELESCOPING VALVES SHALL FULLY CONFORM TO SPECIFICATION SECTION 22 05 23 - VALVES.
  - THE RAS/WAS FACILITY SHALL REMAIN IN OPERATION FOR THE DURATION OF THE PROJECT. OUTAGES AT THIS FACILITY MUST BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO EXECUTING THE WORK.
  - THE OWNER WILL MAKE THE RAS/WAS FACILITY AVAILABLE TO THE CONTRACTOR FOR LIMITED/SHORT PERIODS OF TIME. THE OUTAGE DURATION WILL BE LIMITED TO THE AVAILABLE SOLIDS STORAGE VOLUMES IN THE EXISTING TWO FINAL CLARIFIERS, AS SUCH, IT IS POSSIBLE THE WORK WILL NEED TO BE COMPLETED UNDER SEVERAL INDEPENDENT OUTAGES.
  - THE CONTRACTOR SHALL PROVIDE A SEQUENCING PLAN DESCRIBING HOW THE RAS/WAS STRUCTURE WILL BE REMOVED FROM SERVICE. THE SEQUENCING PLAN SHALL INCLUDE A DETAILED ACCOUNT OF SPECIFIC ACTIVITIES AND DURATION. THE SEQUENCING PLAN MUST BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO EXECUTING THE WORK.
  - DURING THE START OF EACH OUTAGE THE OWNER WILL ASSIST WITH ISOLATING THE RAS/WAS STRUCTURE FROM THE CLARIFIERS (SHUTTING OFF FLOW). THE RAS/WAS JUNCTION BOX IS SELF-DRAINING. HOWEVER, THE CONTRACTOR SHALL BE PREPARED TO PROVIDE EQUIPMENT REQUIRED TO WASH THE REMAINING SOLIDS INTO THE DRAIN AND PREP THE AREA FOR EXECUTING THE WORK.

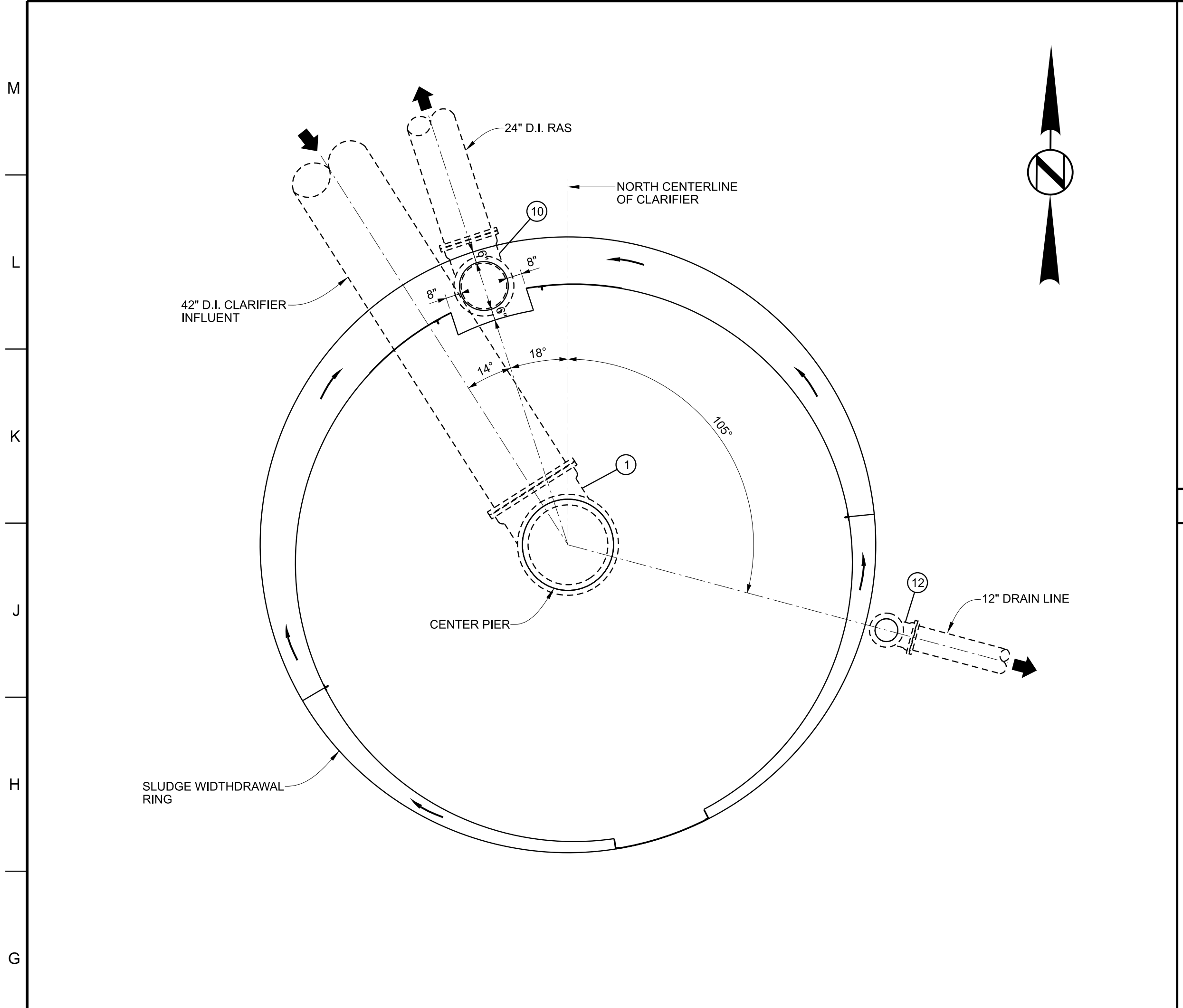
A1 RAS / WAS JUNCTION BOX SECTION 3/8" = 1'-0"

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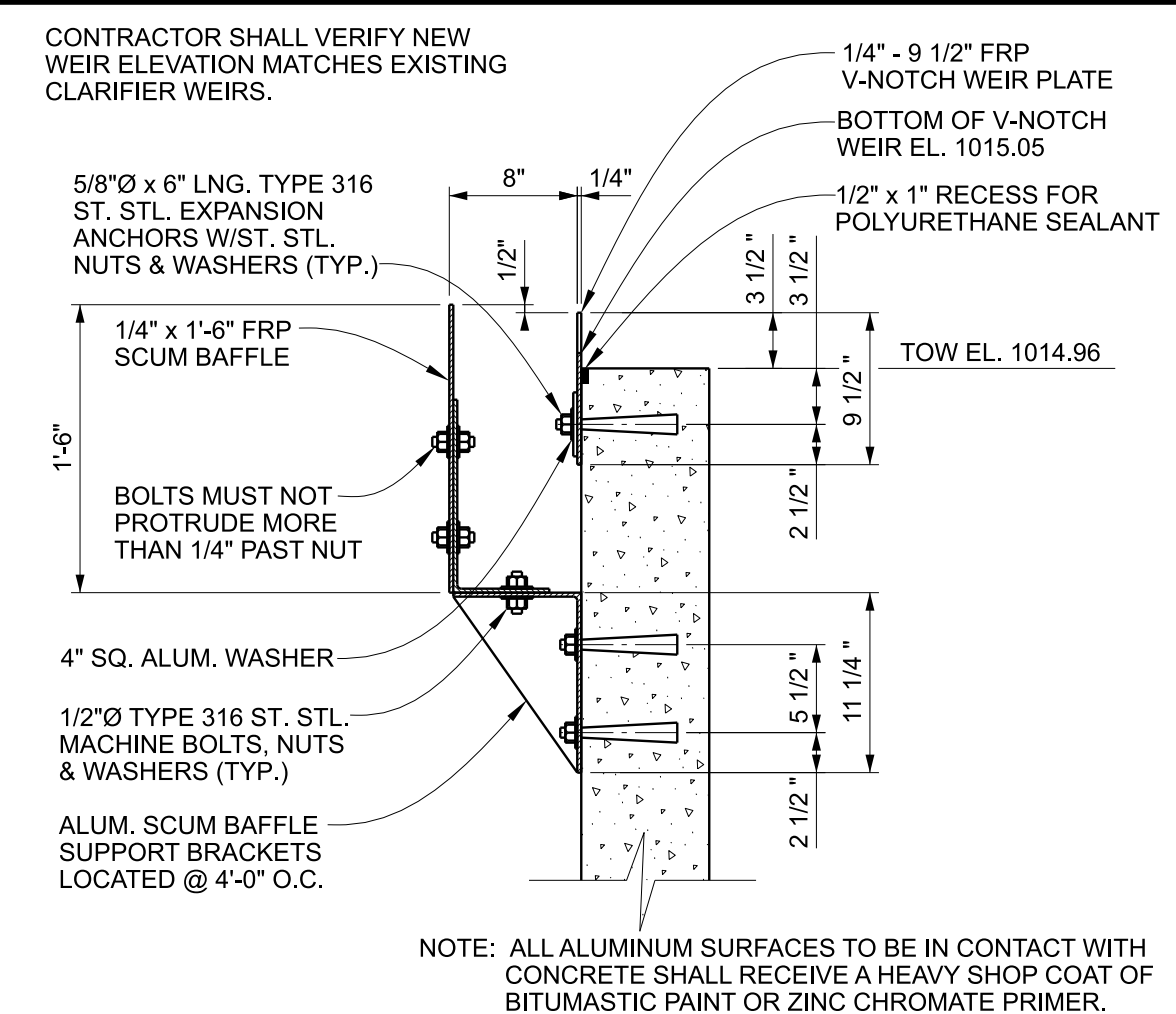


Designed	KAM / ASM	Project No.	21024
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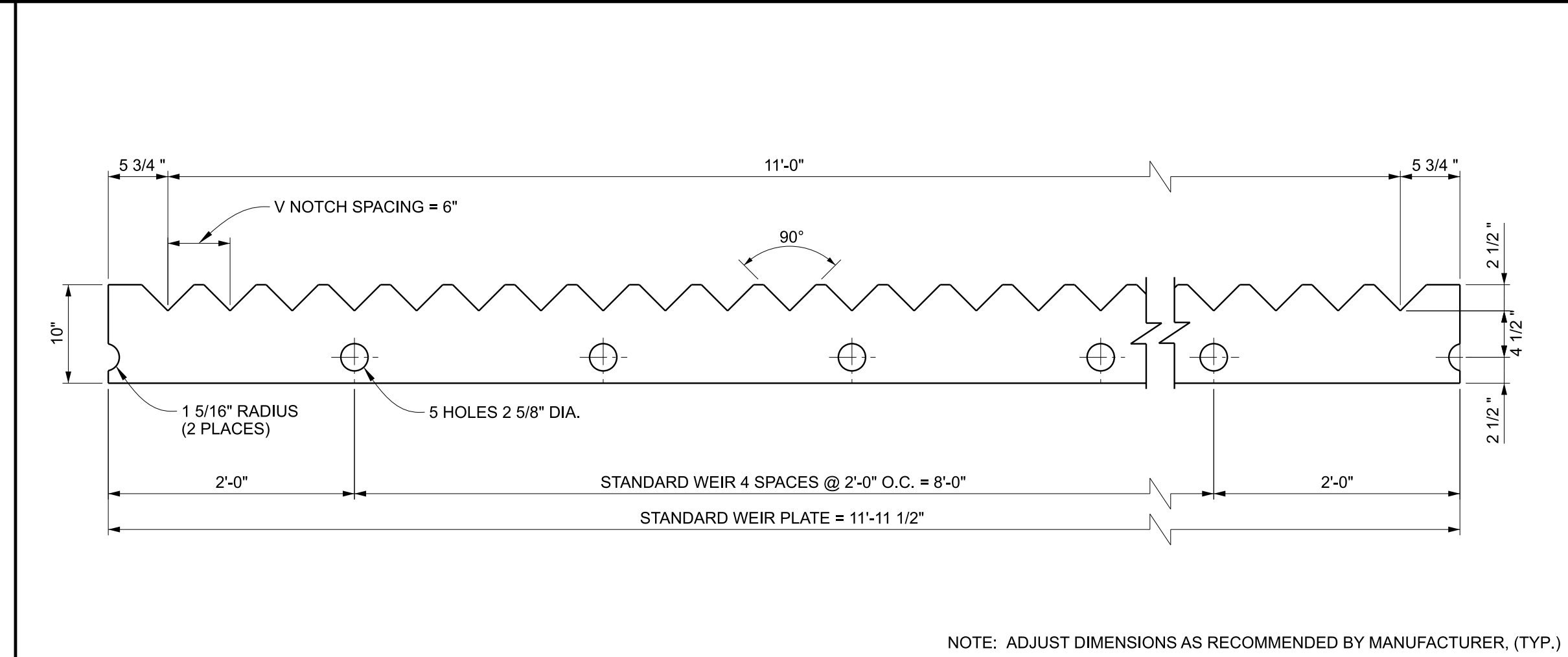
Sheet Title	NEW FINAL CLARIFIER PLAN & SECTIONS
Issue Date	FEB., 2026
Sequence	13 of 27
Sheet No.	C4-02



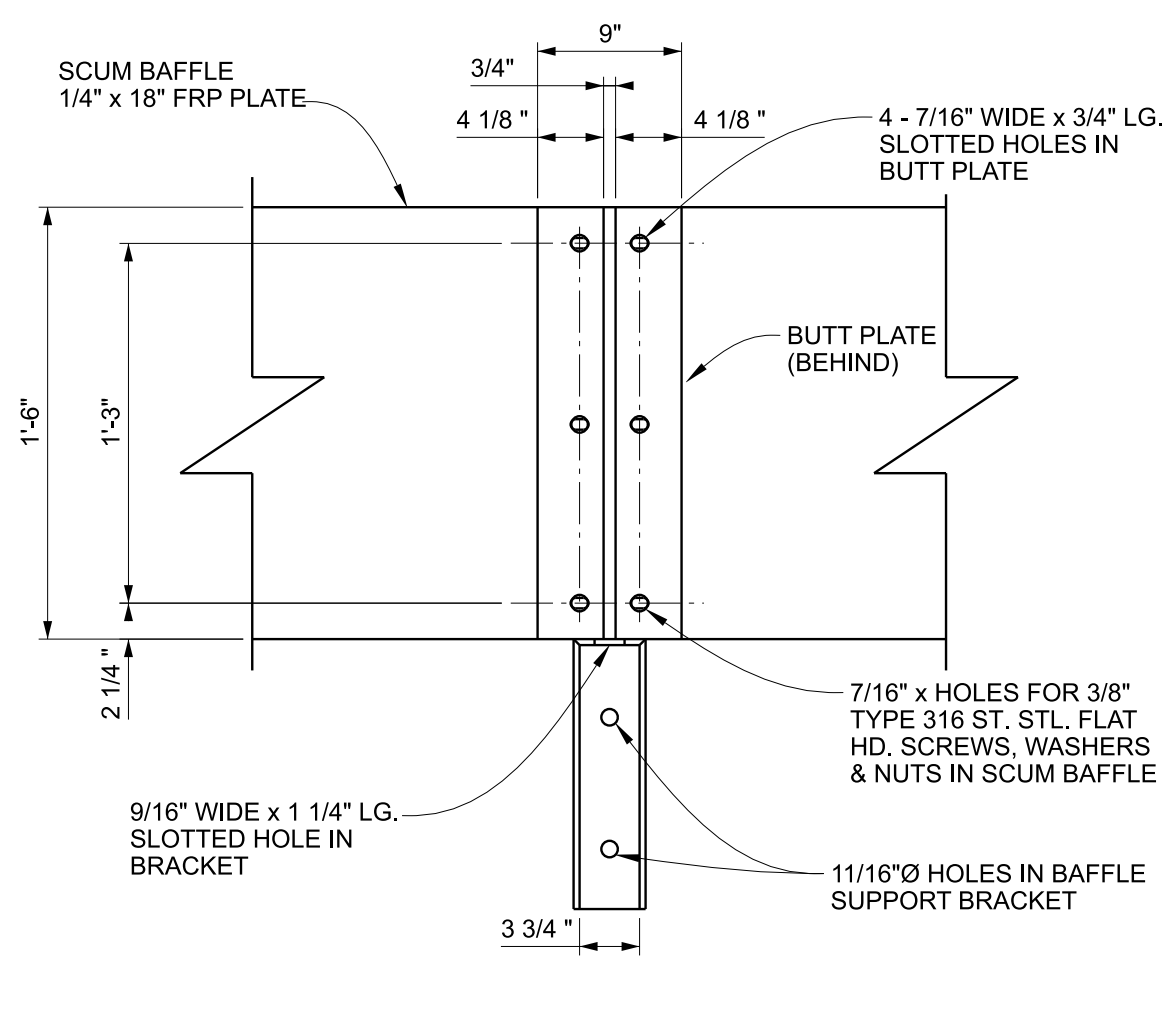
**G1 CENTER PIER BASE PLAN** 1/4" = 1'-0"



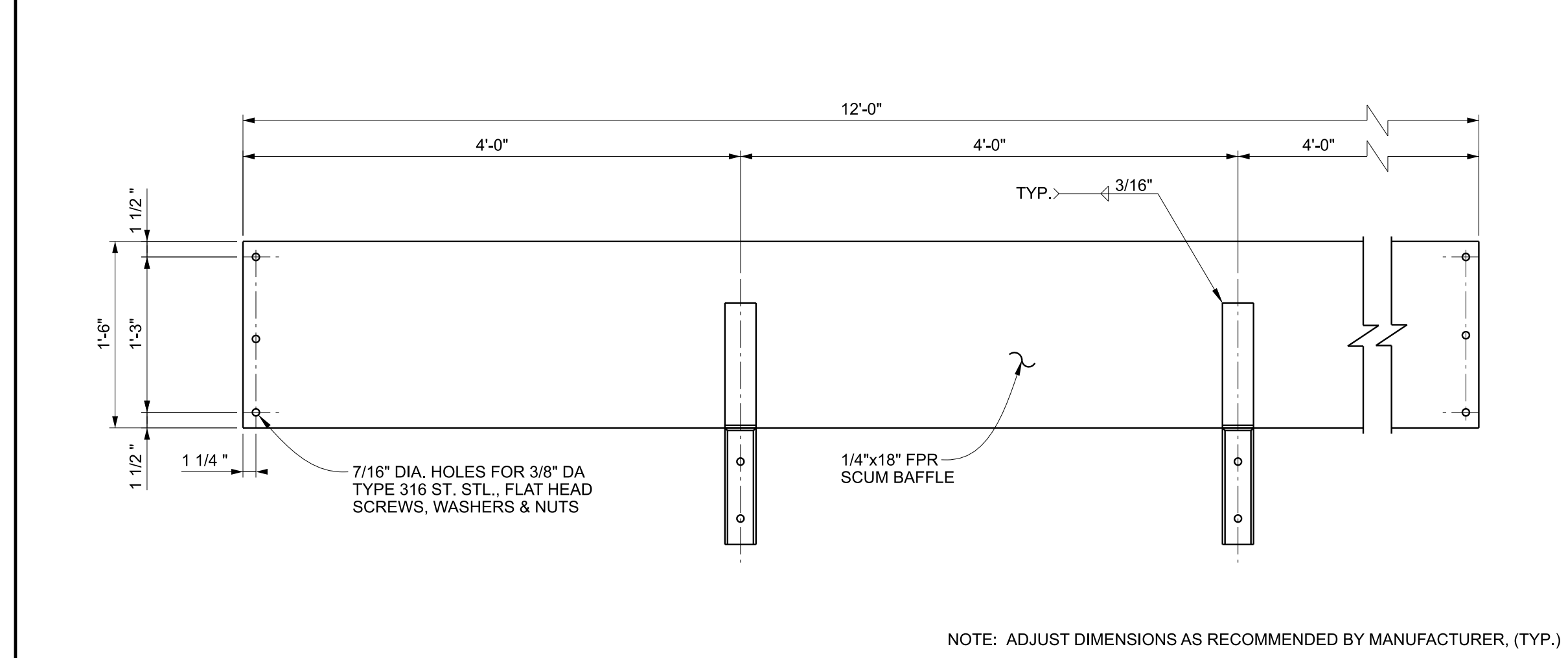
**K7 EFFLUENT WEIR & SCUM BAFFLE** 1" = 1'-0"



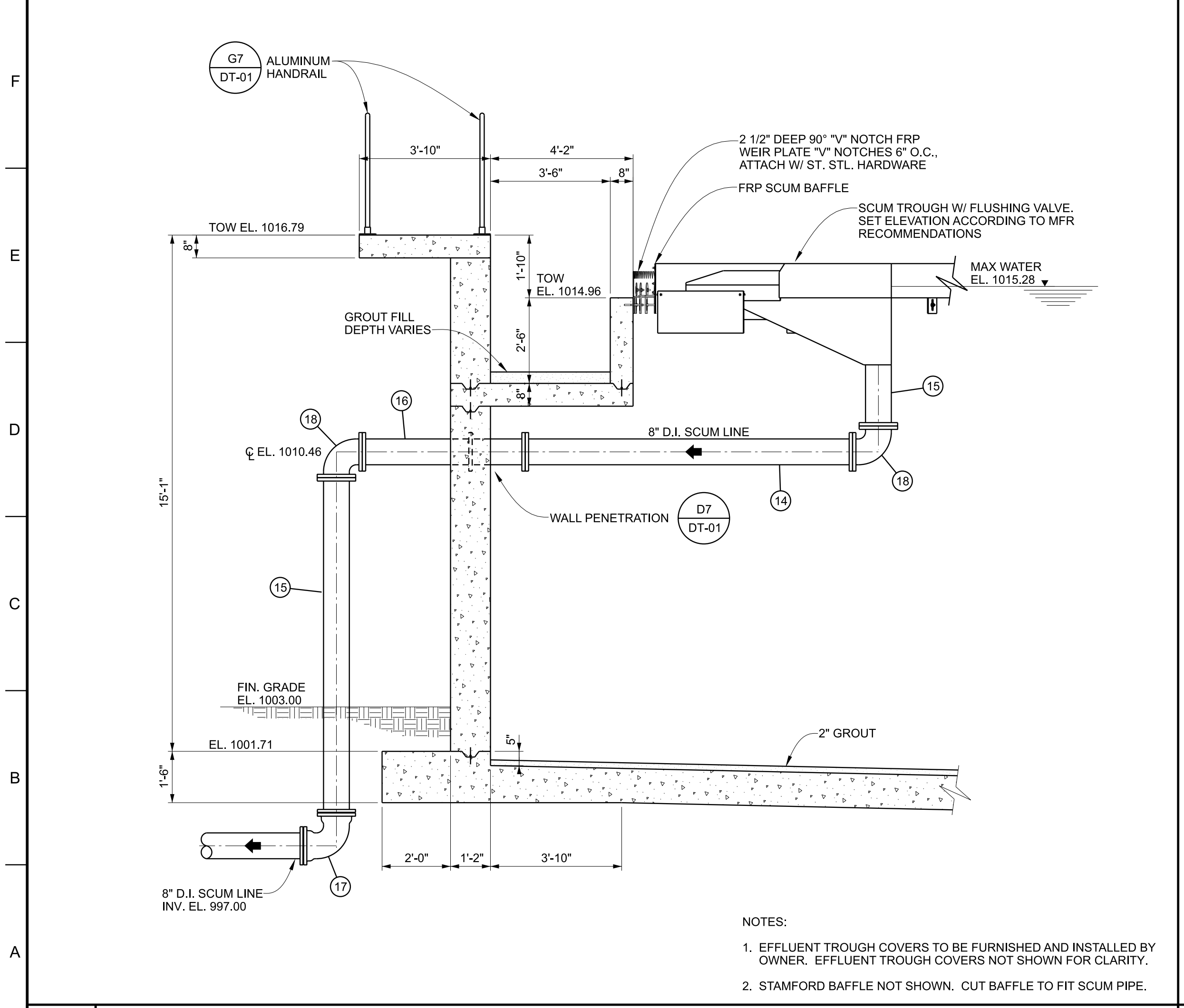
**K10 ELEVATION - WEIR PLATE** 1/2" = 1'-0"



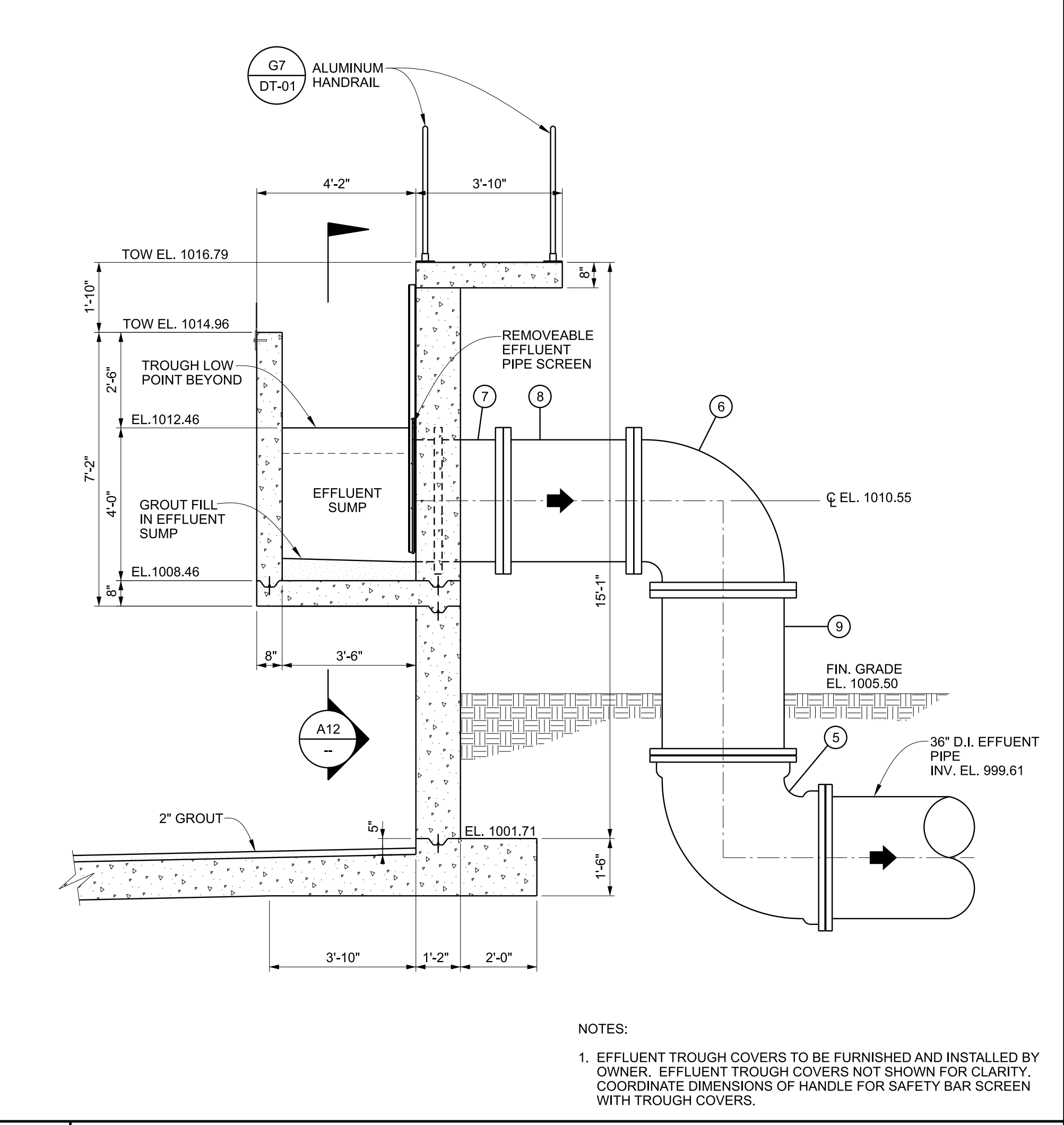
**G7 SCUM BAFFLE SPLICE** NTS



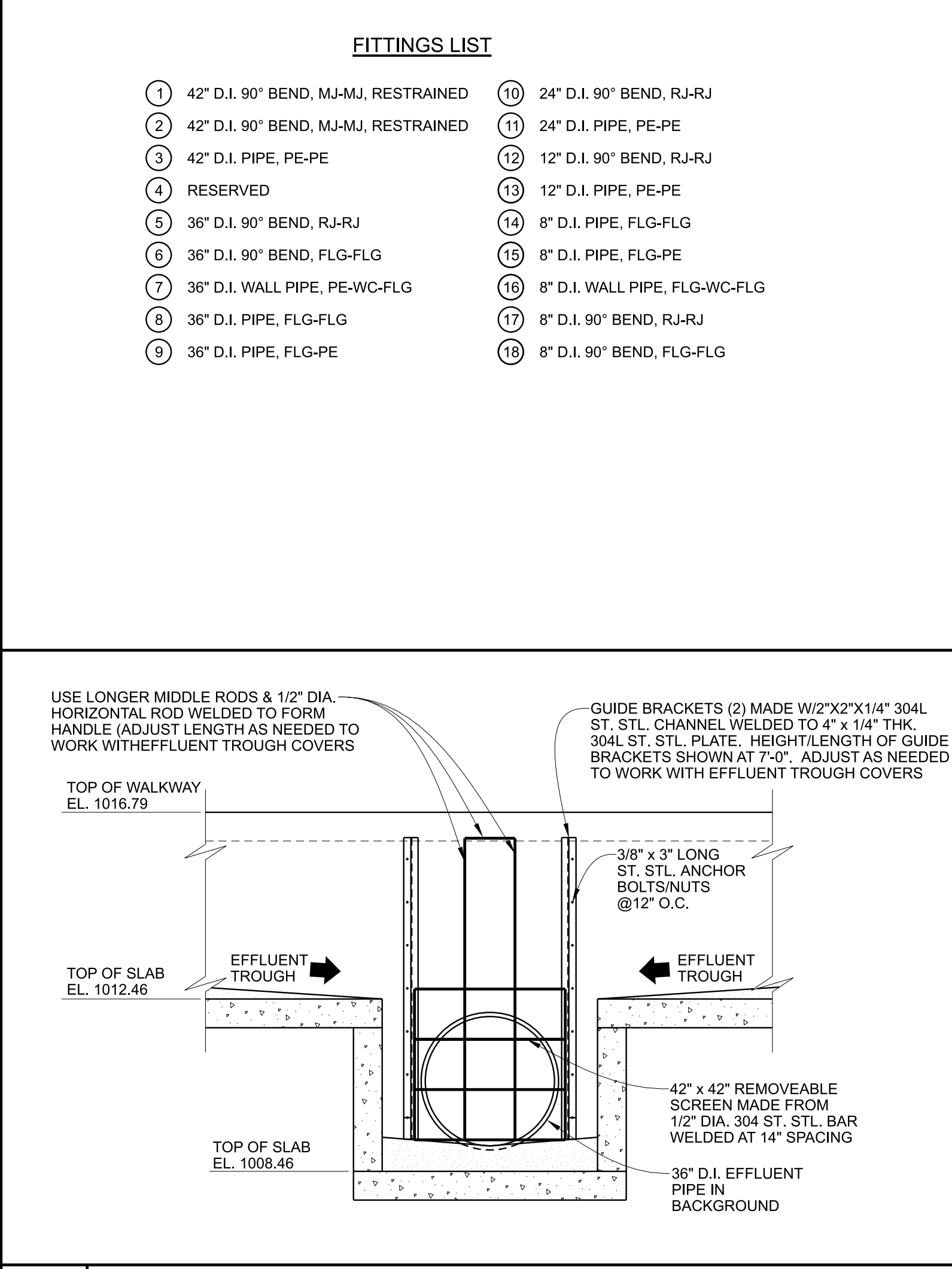
**G10 ELEVATION - SCUM BAFFLE PLATE** 1/2" = 1'-0"



**A1 SECTION AT SCUM TROUGH** 3/8" = 1'-0"



**A7 SECTION AT EFFLUENT SUMP** 3/8" = 1'-0"



**A12 SECTION AT EFFLUENT PIPE** 3/8" = 1'-0"

**FITTINGS LIST**

1	42" D.I. 90° BEND, MJ-MJ, RESTRAINED	10	24" D.I. 90° BEND, RJ-RJ
2	42" D.I. 90° BEND, MJ-MJ, RESTRAINED	11	24" D.I. PIPE, PE-PE
3	42" D.I. PIPE, PE-PE	12	12" D.I. 90° BEND, RJ-RJ
4	RESERVED	13	12" D.I. PIPE, PE-PE
5	36" D.I. 90° BEND, RJ-RJ	14	8" D.I. PIPE, FLG-FLG
6	36" D.I. 90° BEND, FLG-FLG	15	8" D.I. PIPE, FLG-PE
7	36" D.I. WALL PIPE, PE-WC-FLG	16	8" D.I. WALL PIPE, FLG-WC-FLG
8	36" D.I. PIPE, FLG-FLG	17	8" D.I. 90° BEND, RJ-RJ
9	36" D.I. PIPE, FLG-PE	18	8" D.I. 90° BEND, FLG-FLG

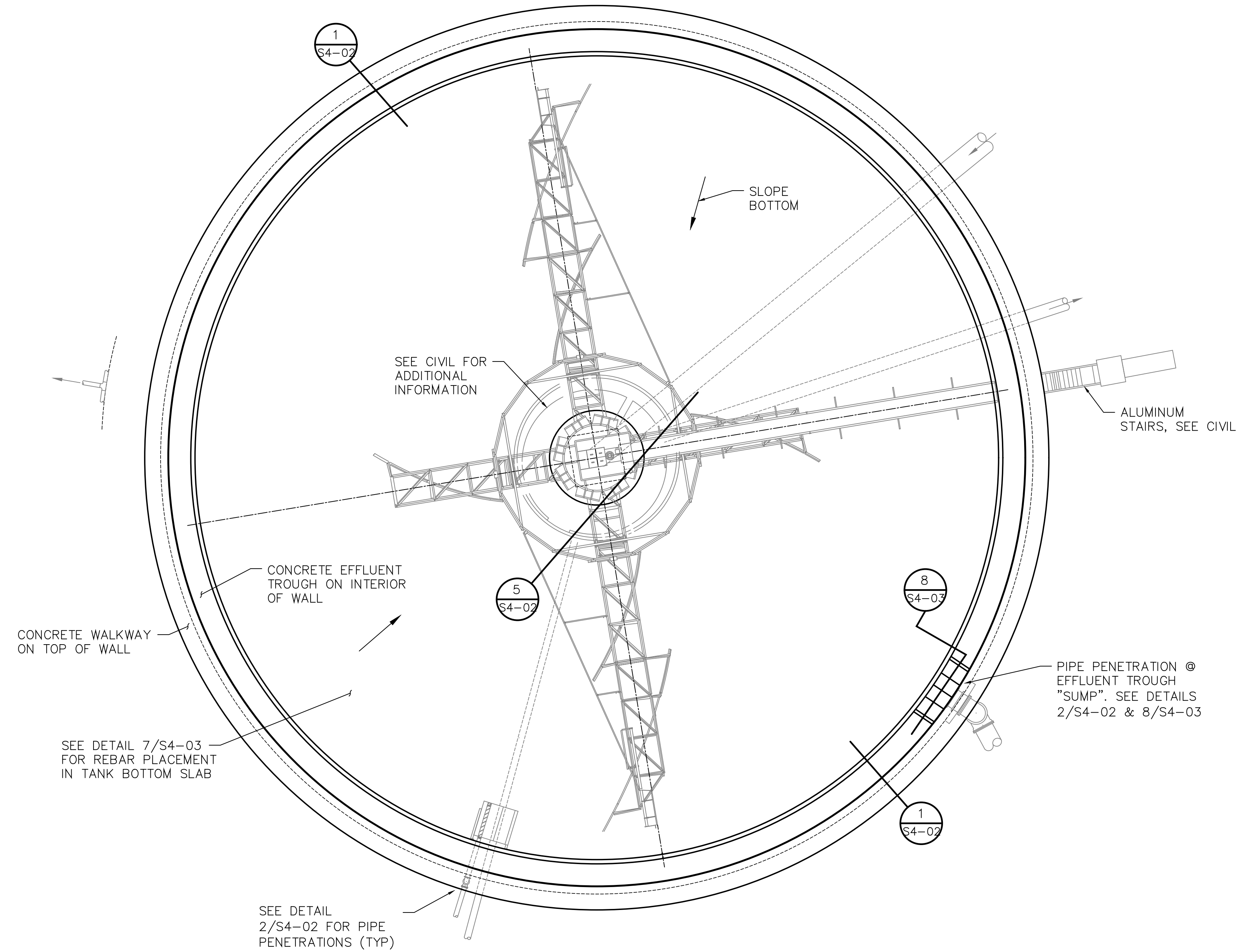
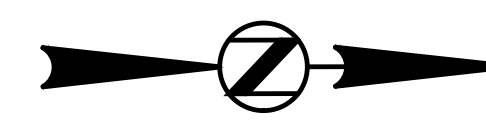
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Designed	DMT	Project No.	21024
Drawn	DMT		
Checked	TWG		

Revisions		
No.	Date	Description


Sheet Title  
**NEW CLARIFIER  
STRUCTURAL PLAN**

Issue Date	Sept., 2023	Sheet No.	S4-01
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# CLARIFIER STRUCTURAL PLAN

SCALE 3/32"=1'-0"

**PLAN NOTES:**

- SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING DIMENSIONS & ELEVATIONS.
- SEE DETAIL 2/S4-02 FOR REINFORCING @ PIPE PENETRATIONS THRU WALLS.
- SEE DETAIL 3/S4-02 FOR TYPICAL DETAILS AT CONSTRUCTION JOINTS. CONTRACTOR SHALL PROVIDE TO CIVIL ENGINEER FOR PROPOSED CONSTRUCTION JOINT (CJ) LOCATIONS.
- SEE DETAIL 4/S4-02 FOR VERTICAL RECESSES IN WALL FACES.
- SEE DETAIL 6/S4-03 FOR STAGGERED SPLICES OF HORIZONTAL BARS IN WALLS.

M  
L  
K  
J  
H  
G  
F  
E  
D  
C  
B  
A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



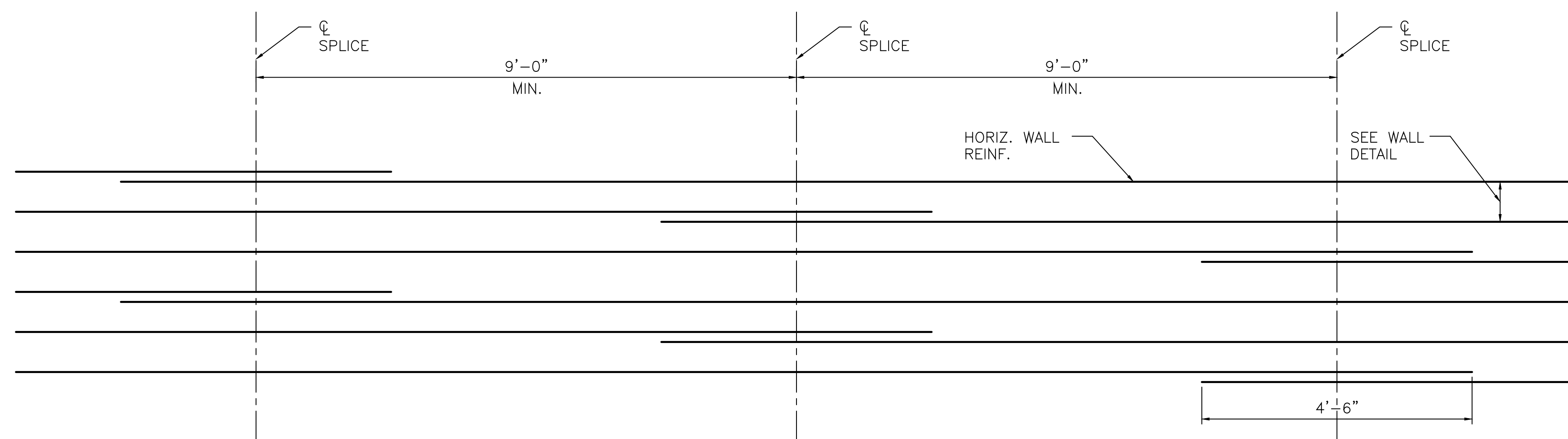
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Drawn	DMT		
Checked	TWG		

Revisions		
No.	Date	Description

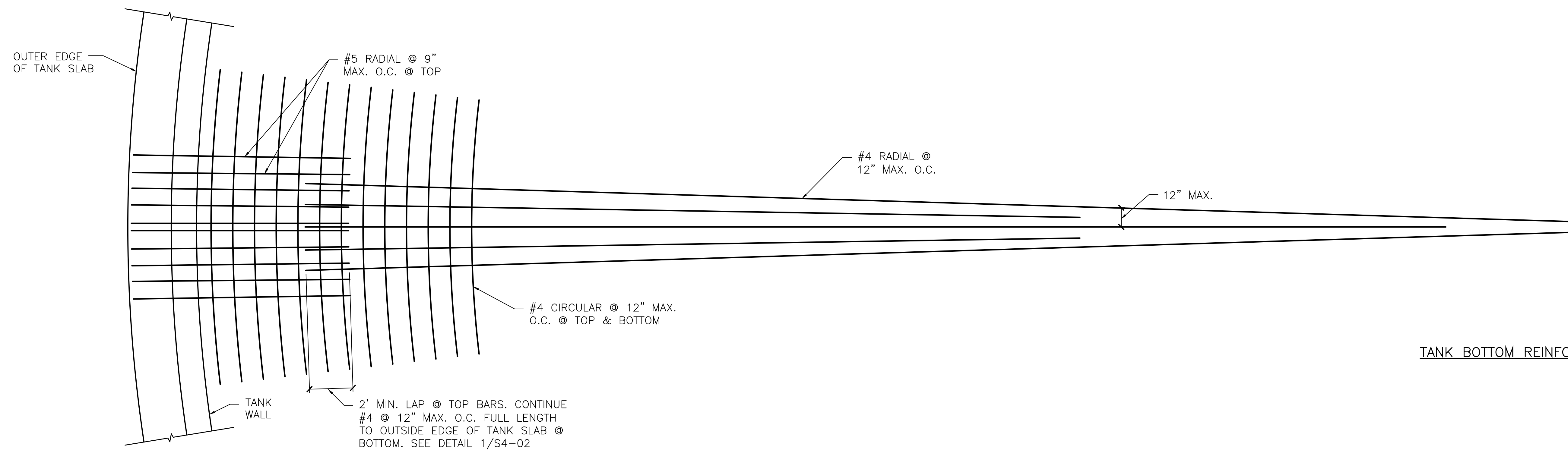
Sheet Title  
**STRUCTURAL DETAILS**

Issue Date  
 Sept., 2023  
 Sheet No.  
**S4-03**

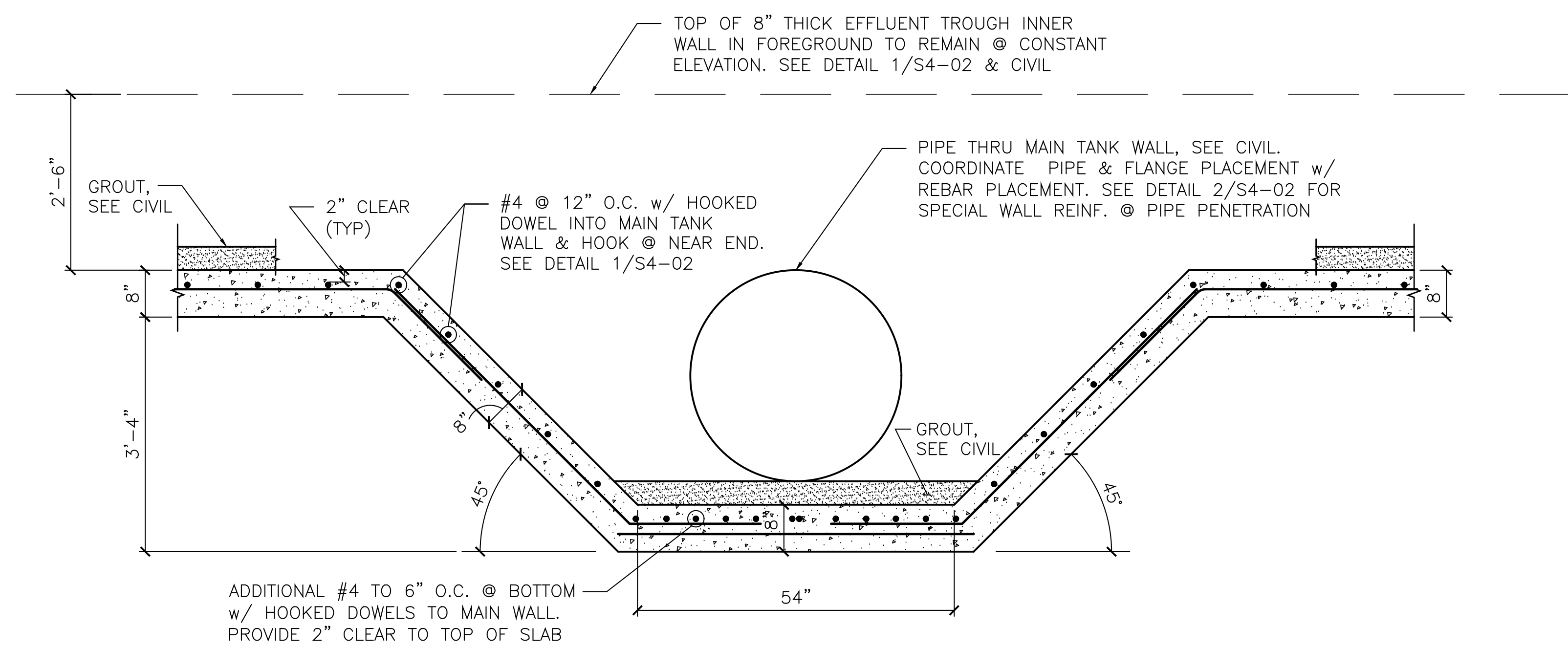
NOTE:  
 HORIZONTAL REBAR SHALL BE  
 CURVED TO MATCH TANK RADIUS.  
 TYPICAL STAGGERED SPLICE DETAIL FOR  
 HORIZONTAL REINFORCING IN TANK WALLS



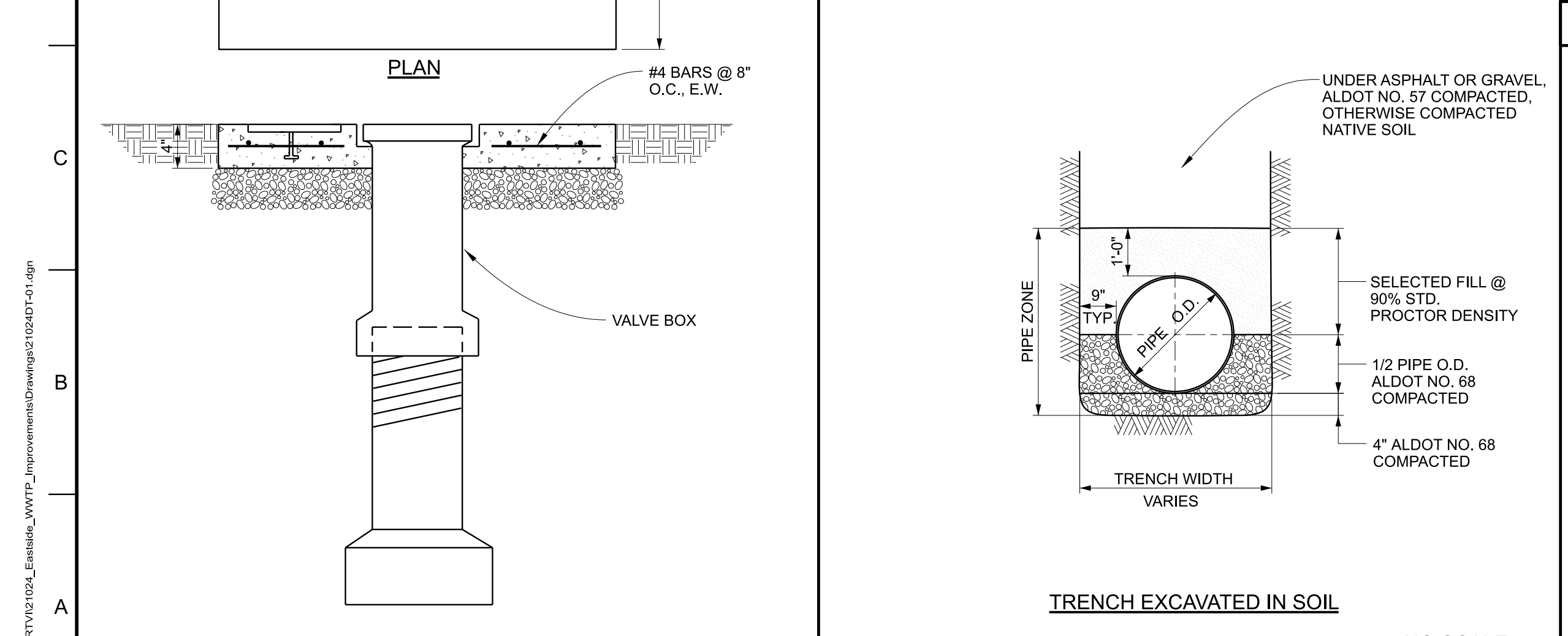
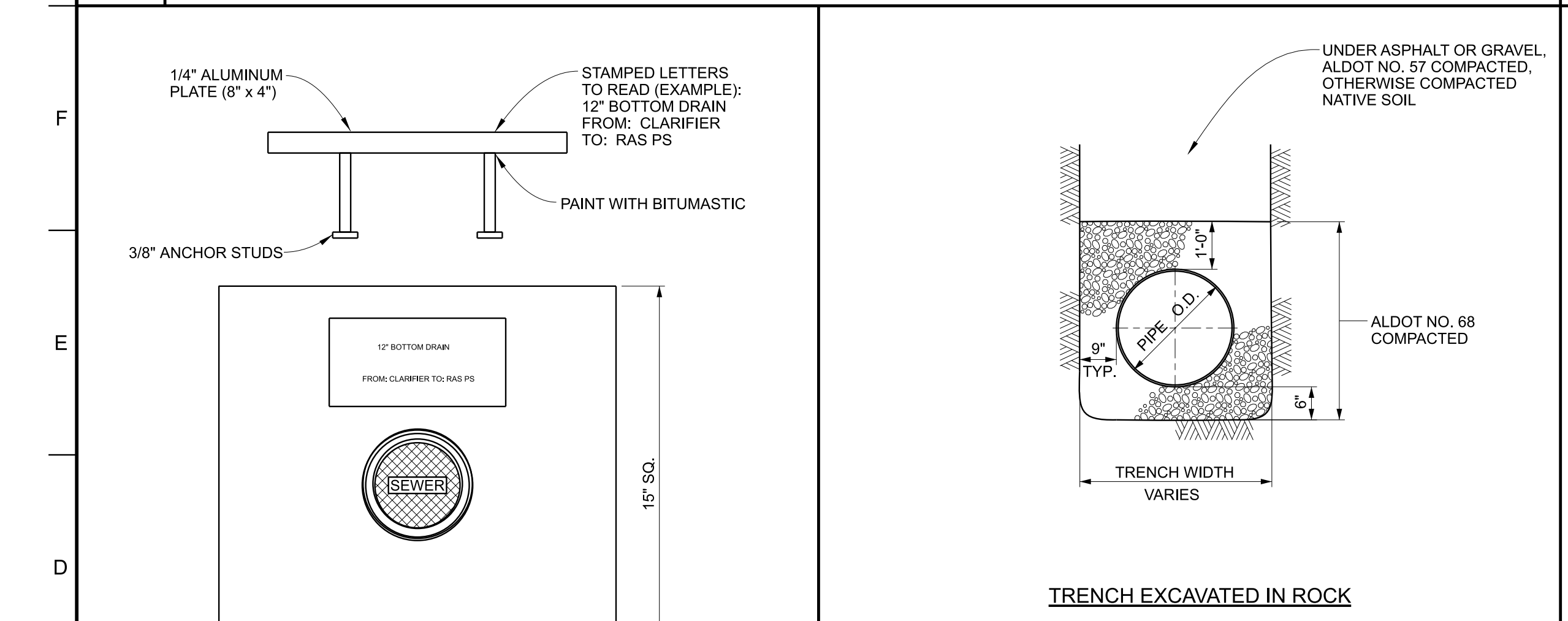
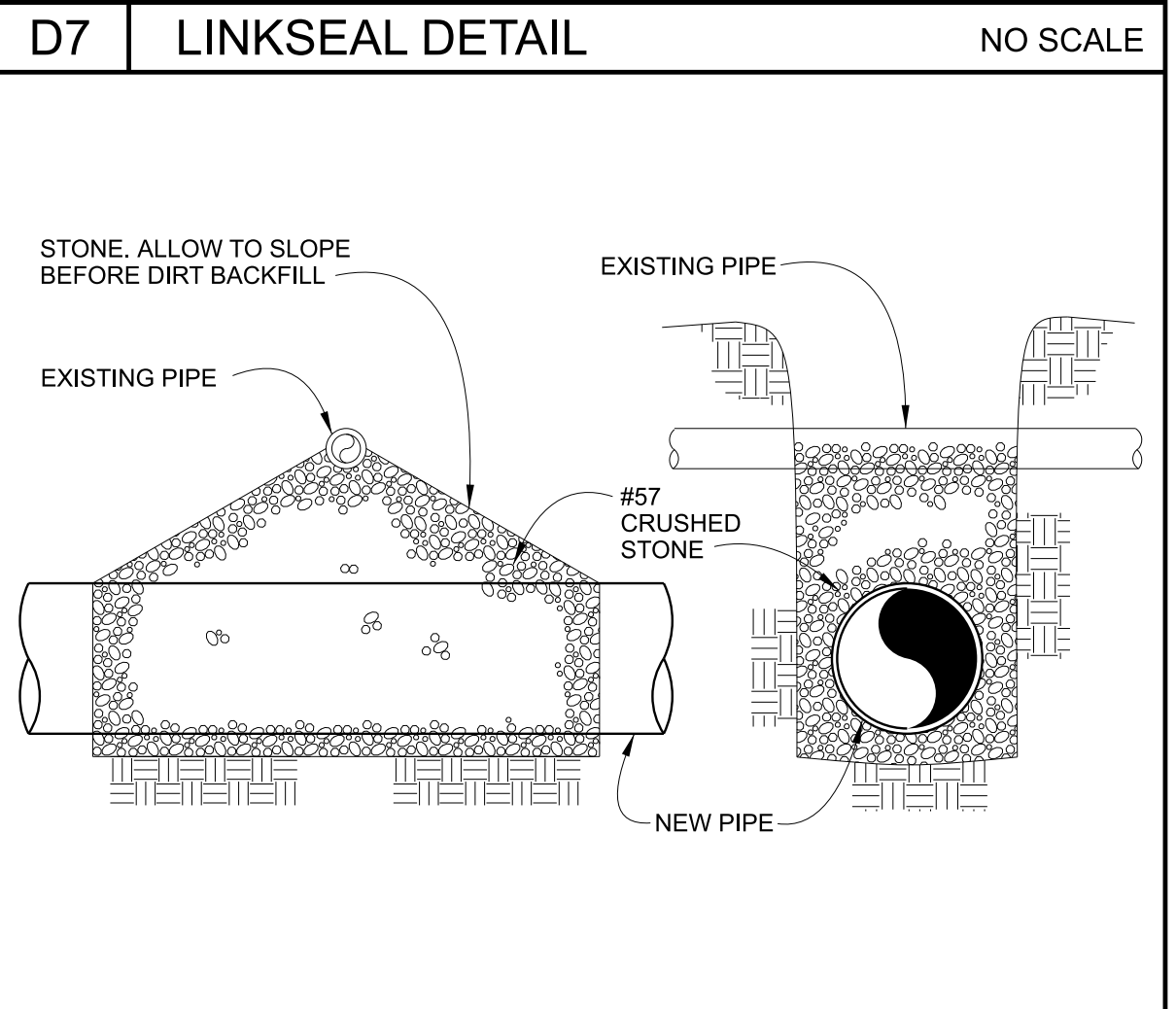
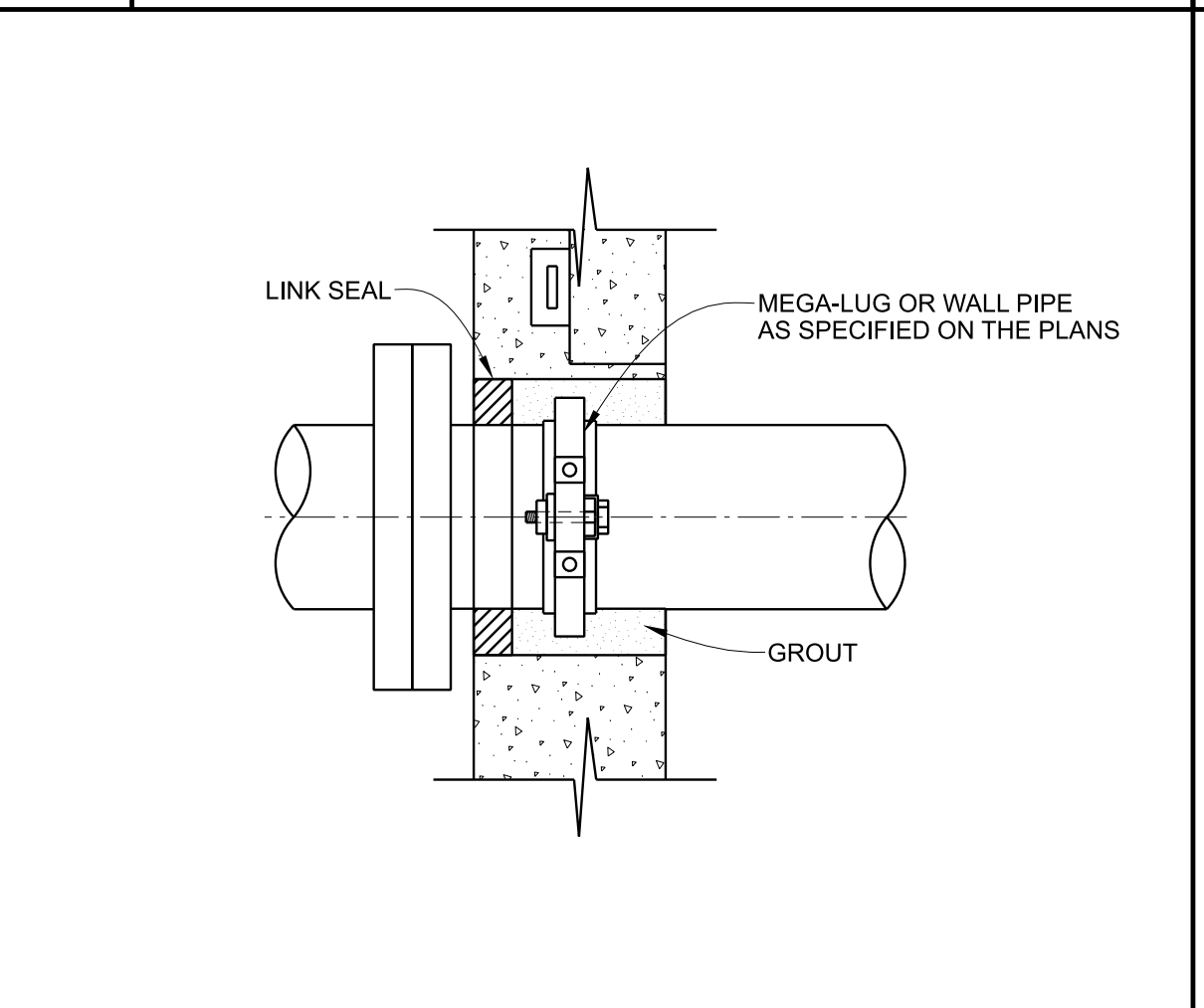
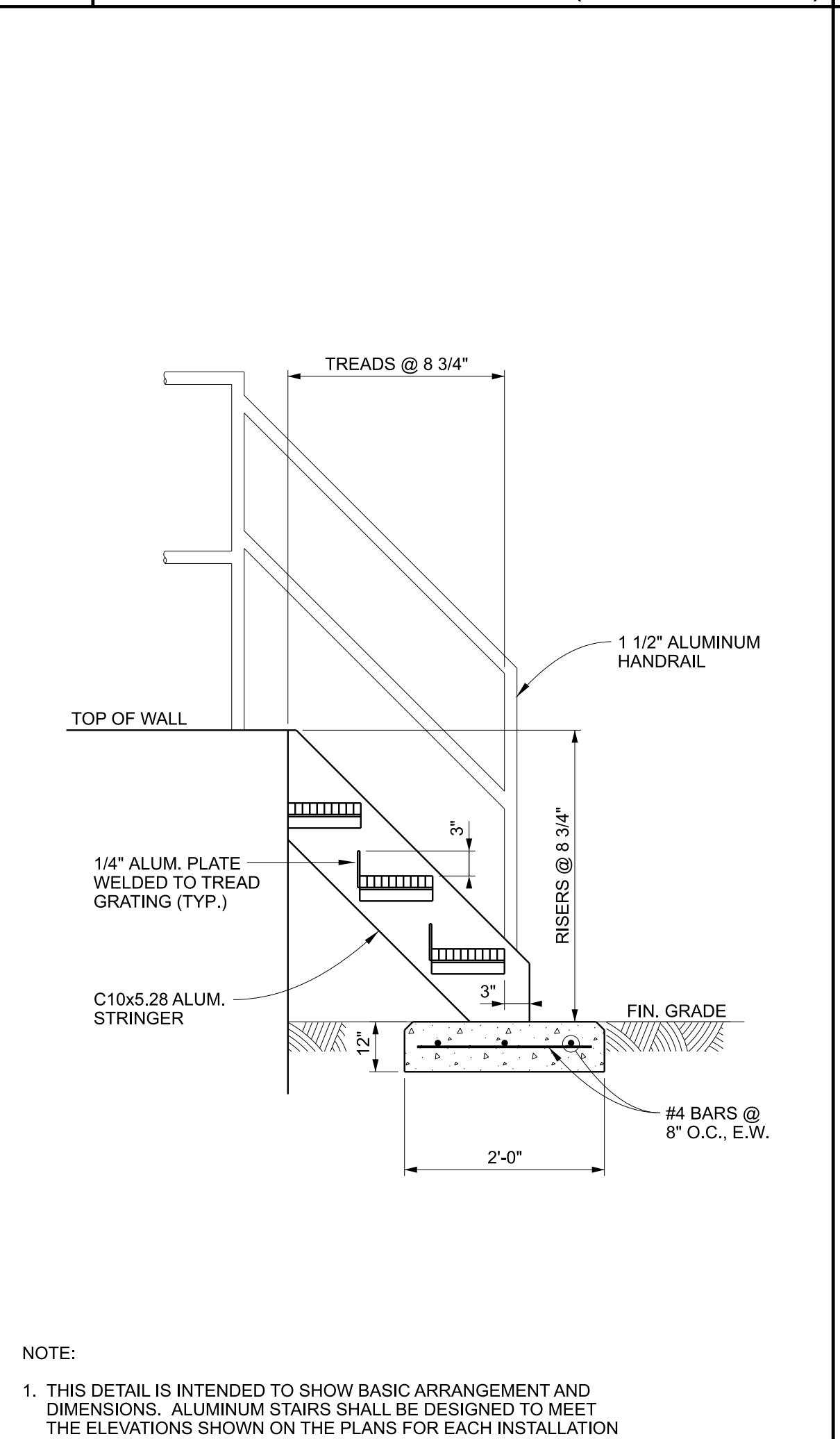
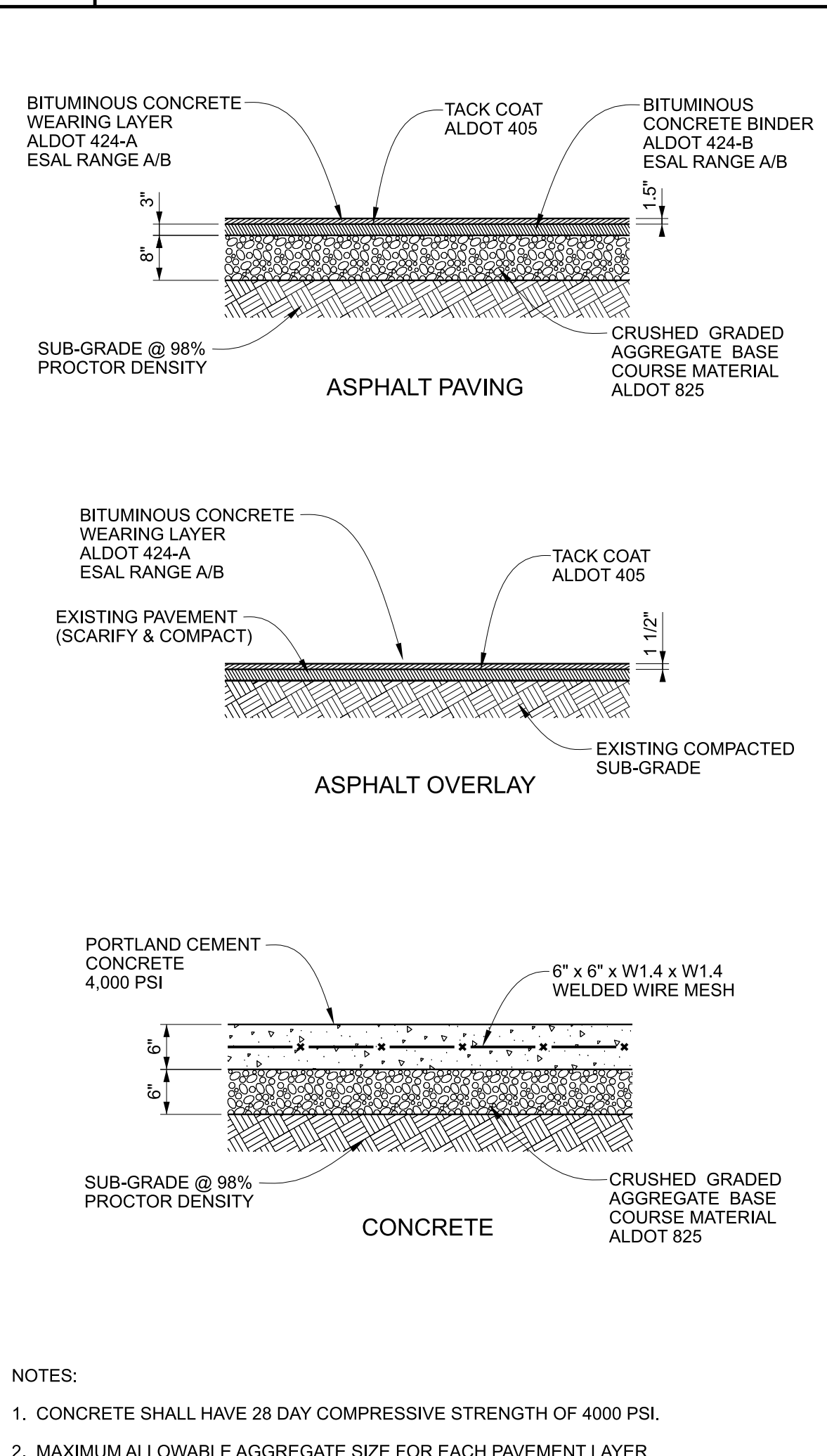
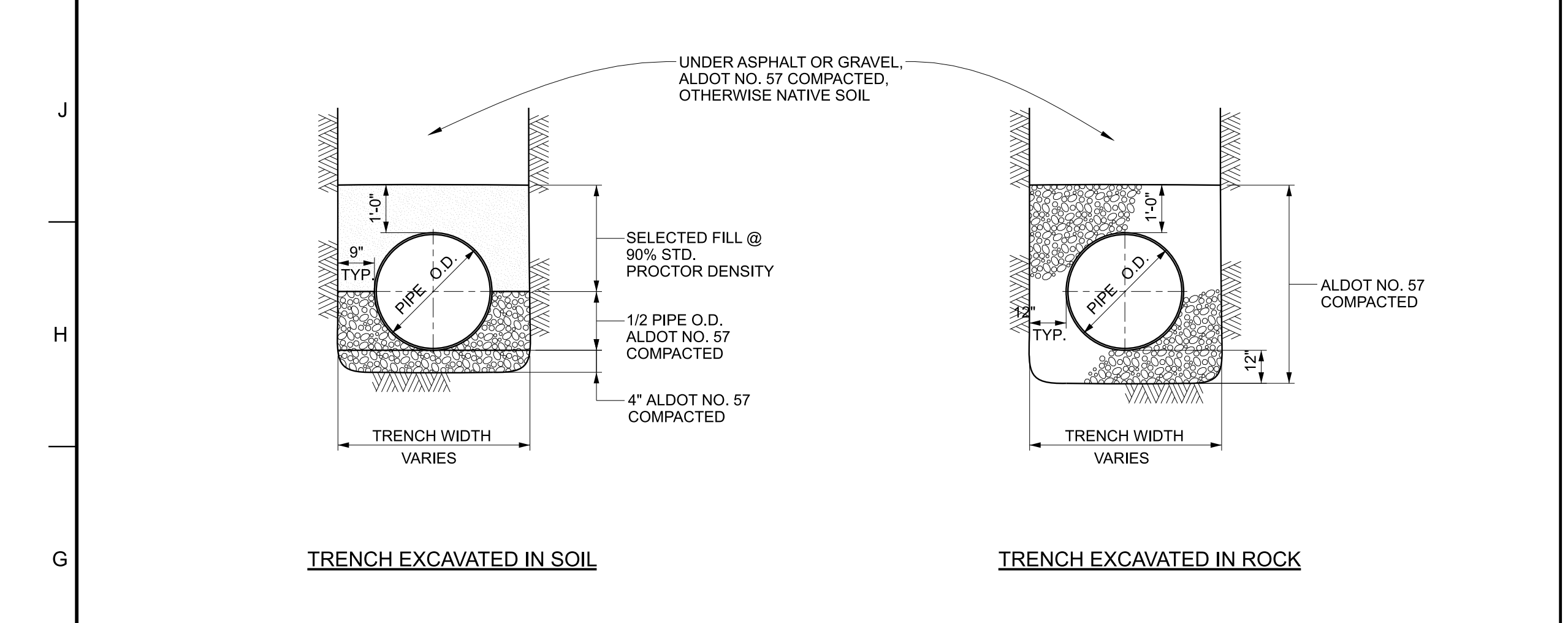
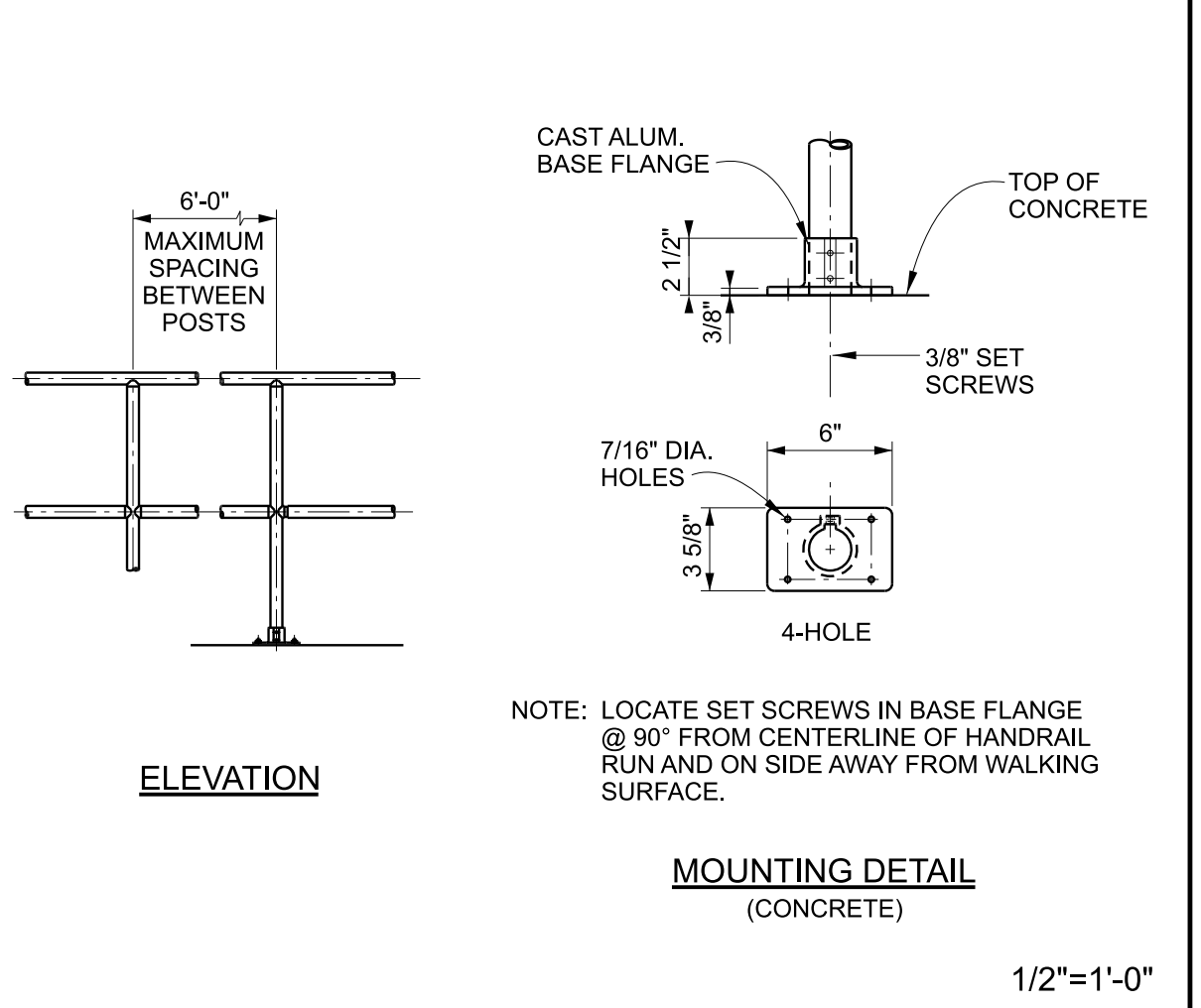
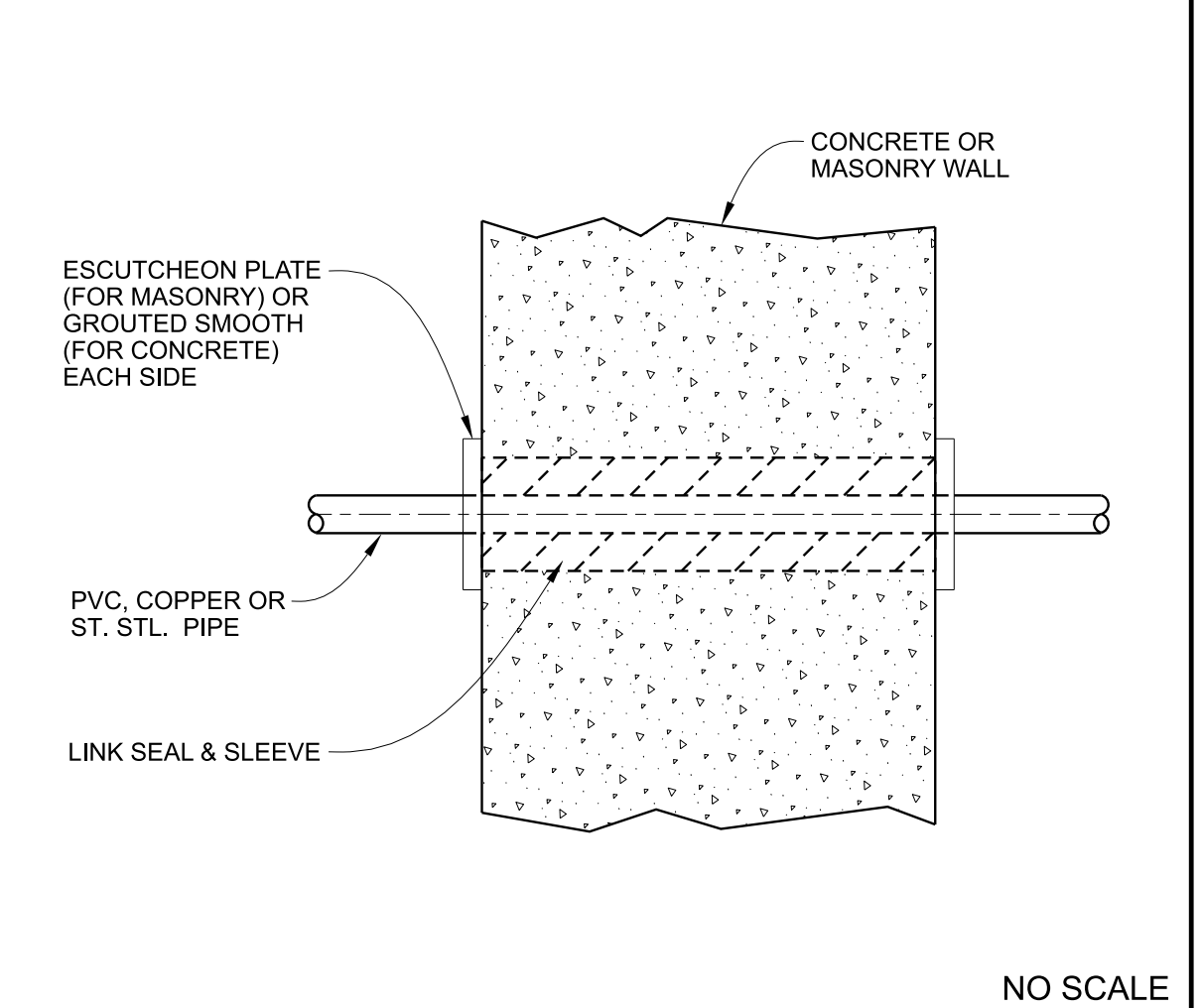
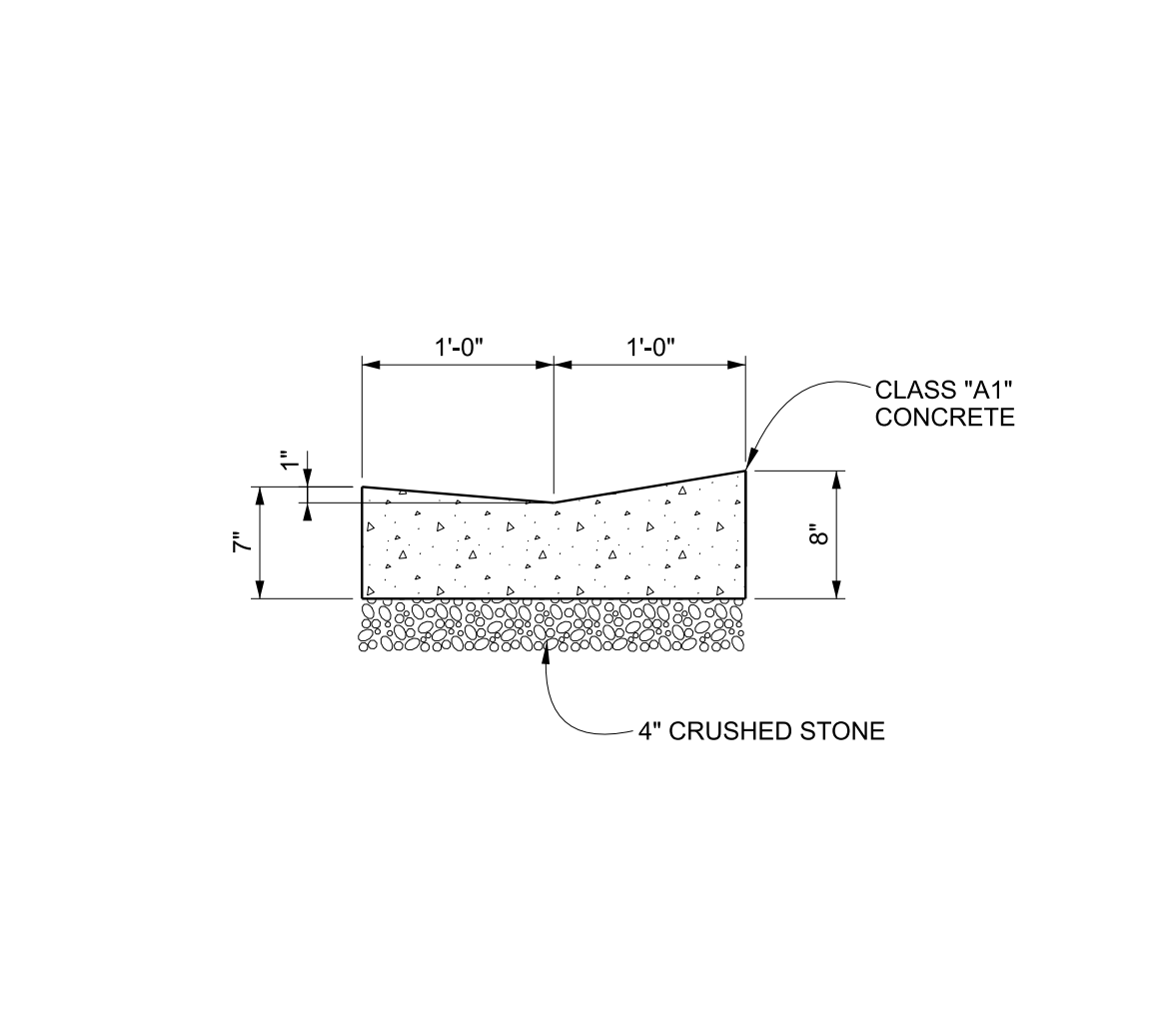
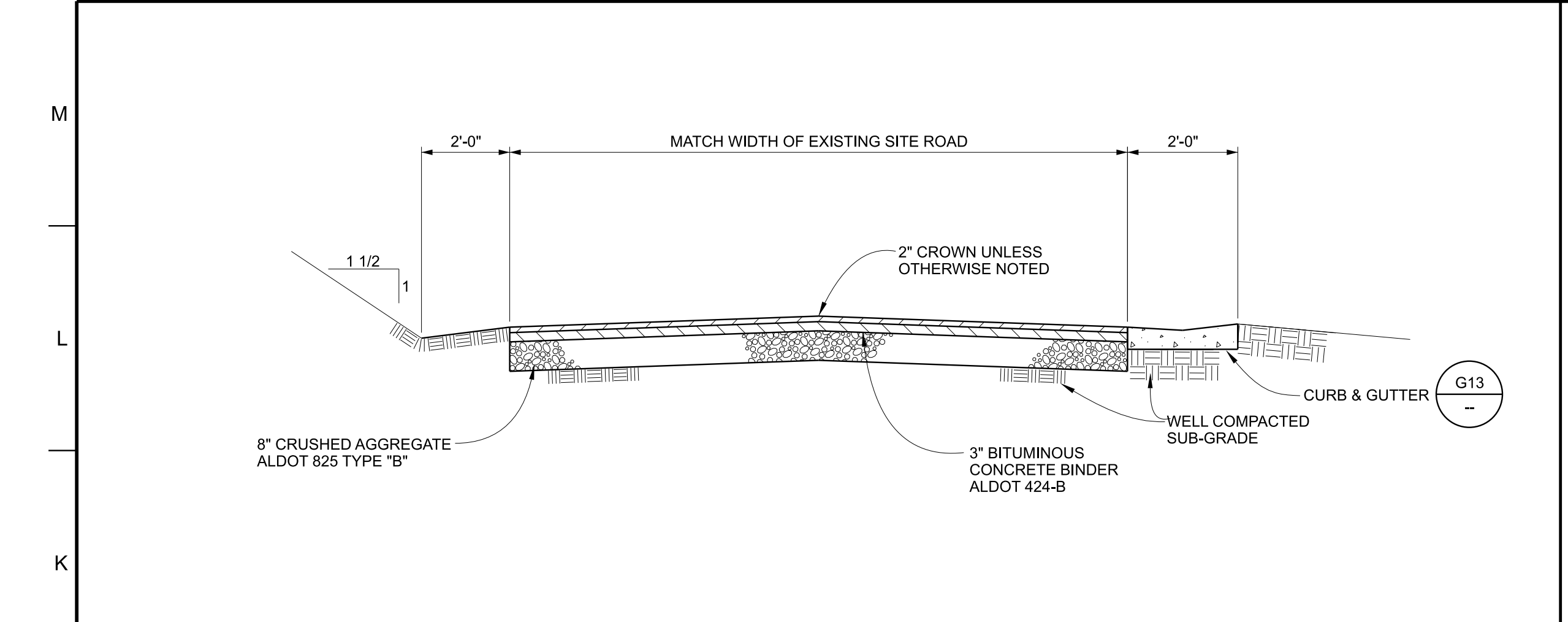
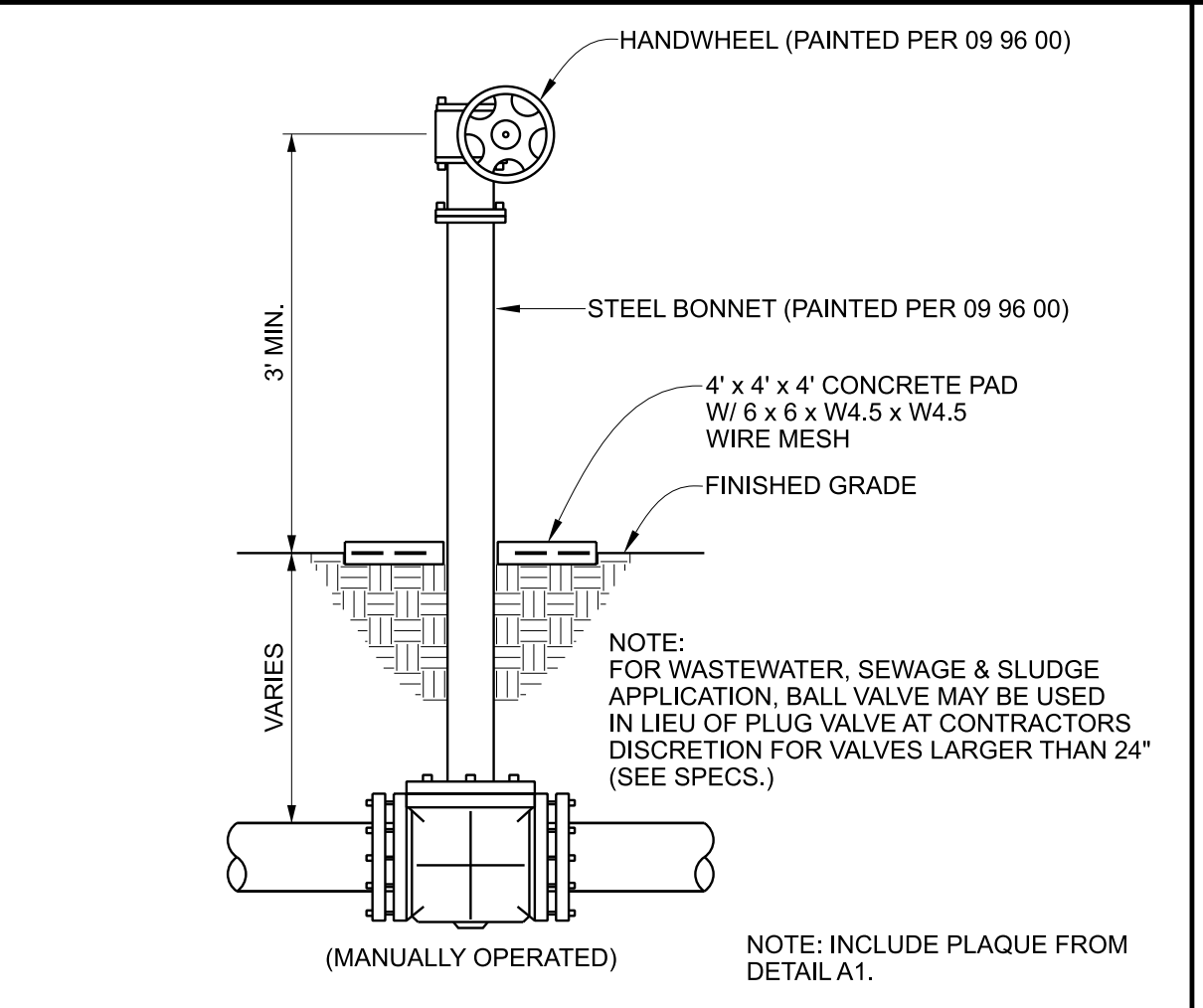
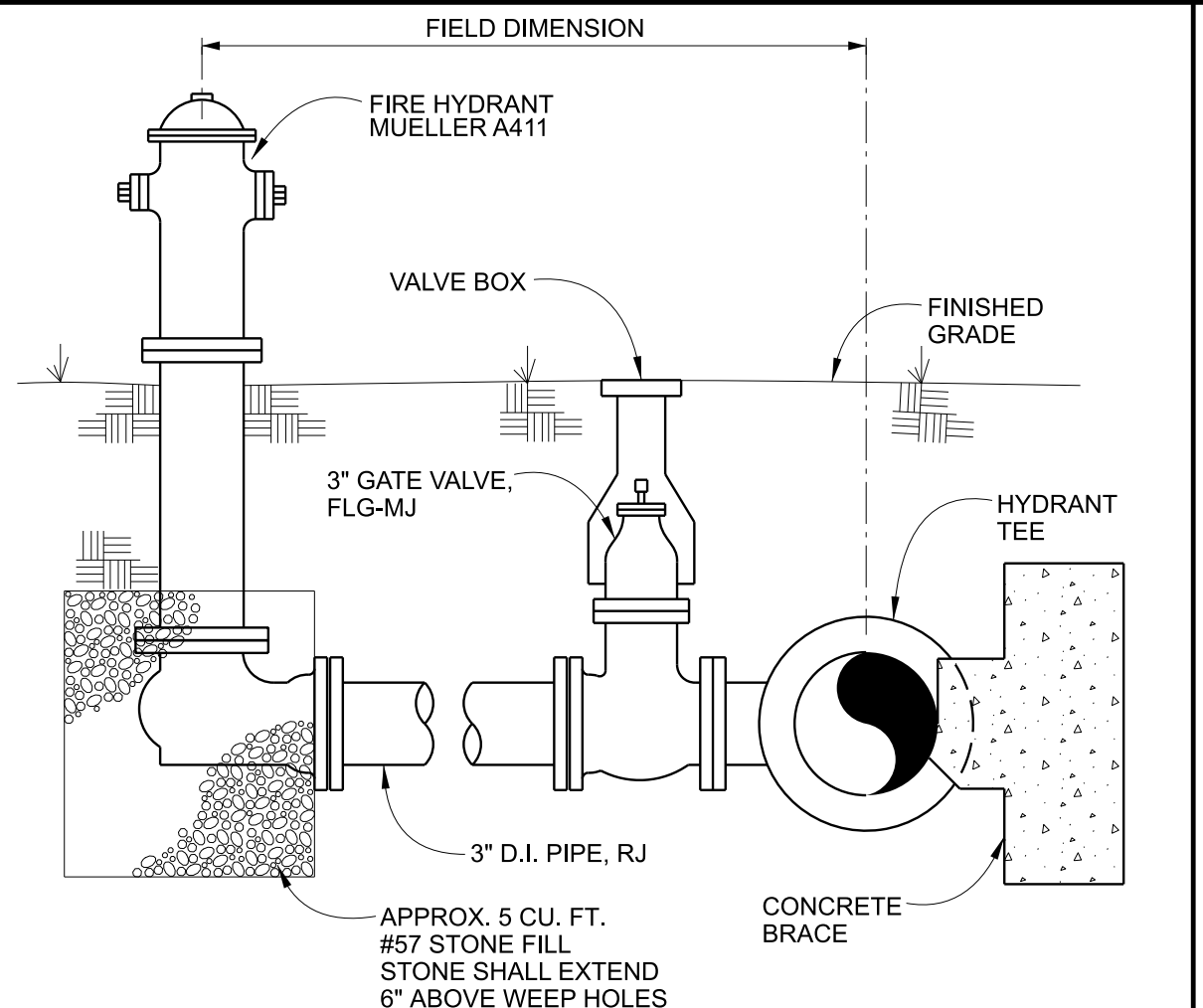
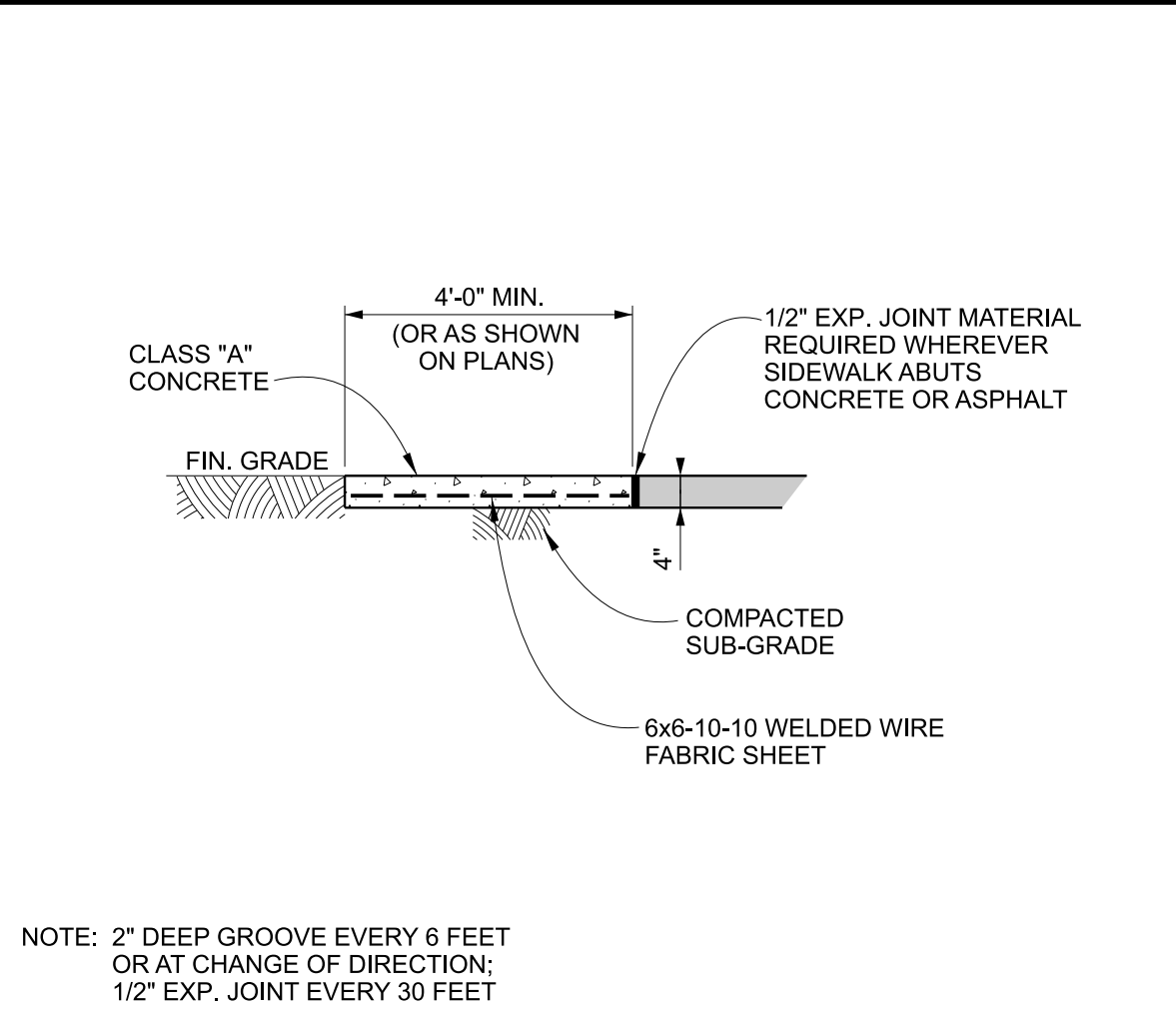
DETAIL 6 SCALE: 3/4" = 1'-0"



DETAIL 7 SCALE: 3/16" = 1'-0"



DETAIL 8 SCALE: 3/4" = 1'-0"





Project No. 21024

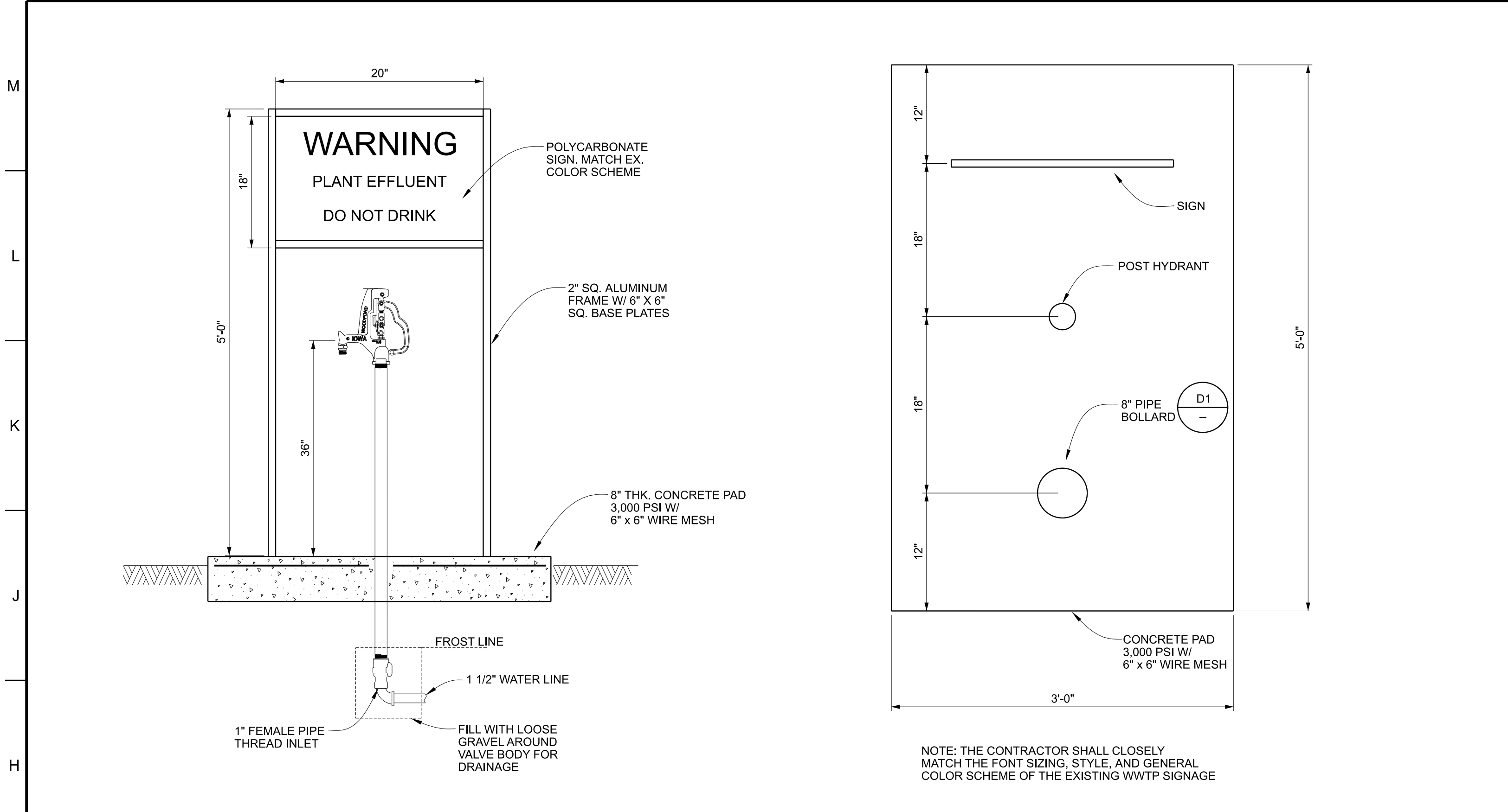
MUNICIPAL UTILITIES BOARD OF ALBERTVILLE  
EASTSIDE WWTP  
FINAL CLARIFIER IMPROVEMENTS  
ALBERTVILLE, ALABAMA



Designed KAM / ASM	Project No. 21024
Drawn CLM	
Checked MAS	

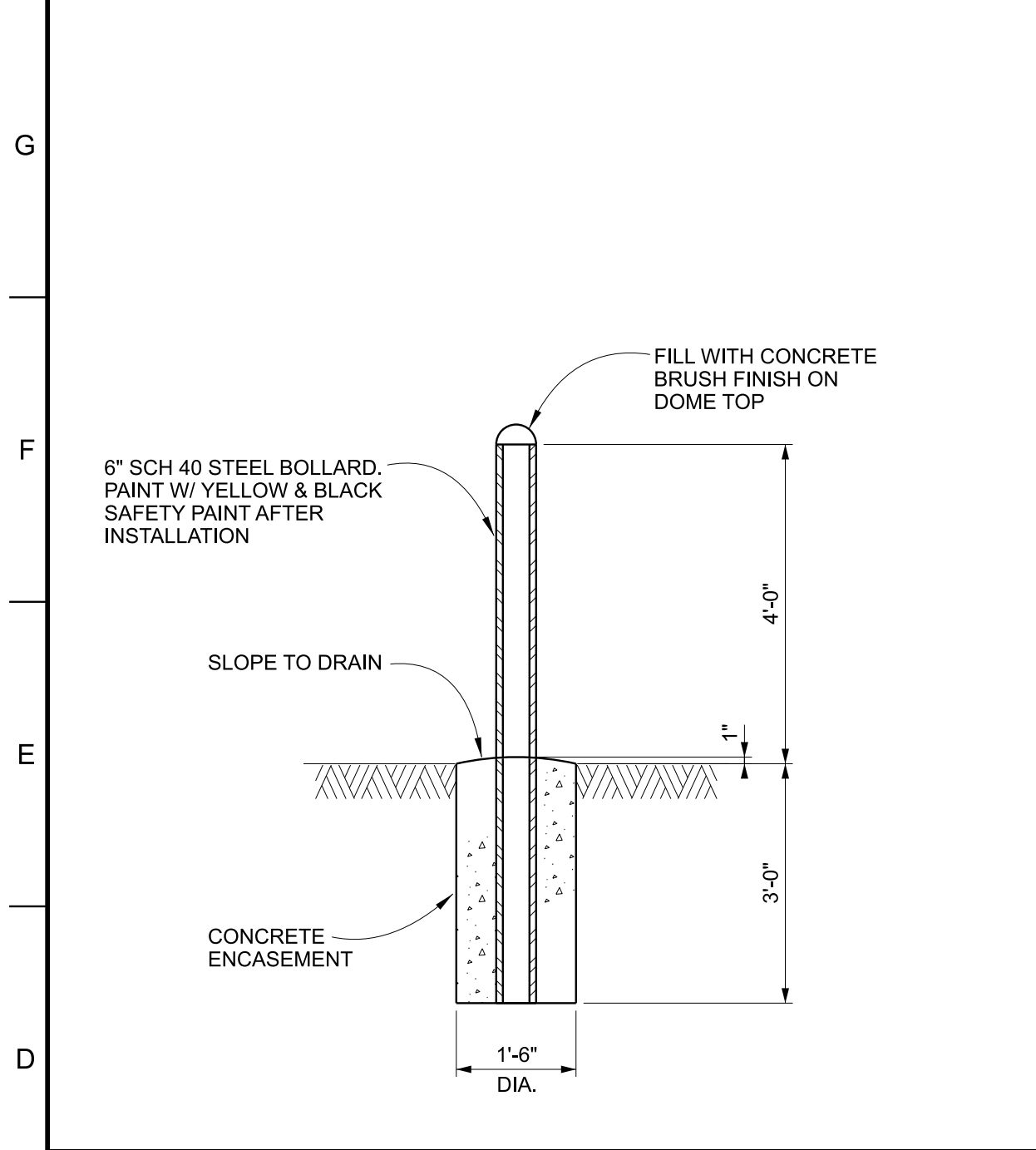
No.	Date	Description
1	02/16/26	ISSUED FOR BID

Sheet Title	
MISCELLANEOUS DETAILS	
Issue Date FEB., 2026	Sheet No. DT-02
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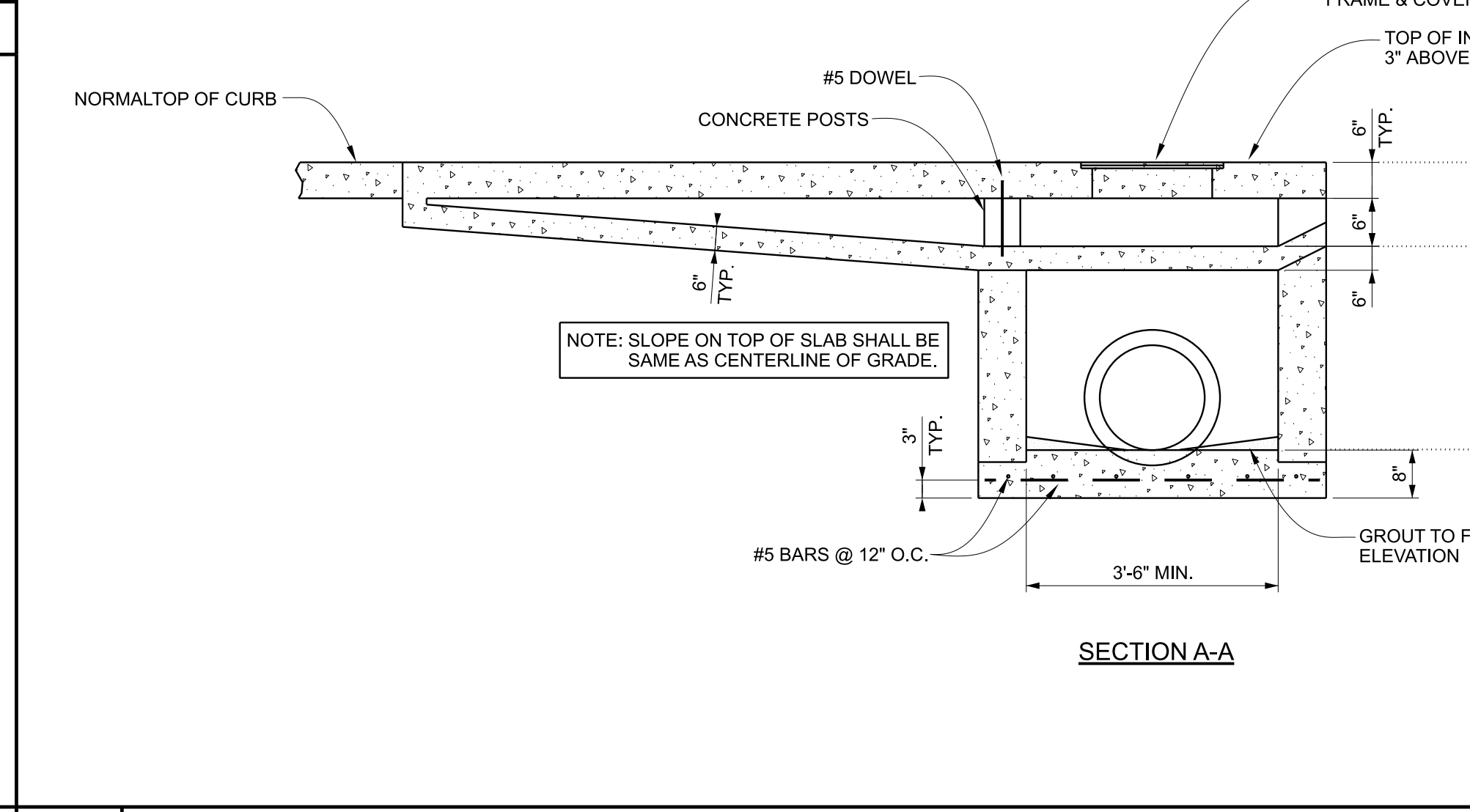
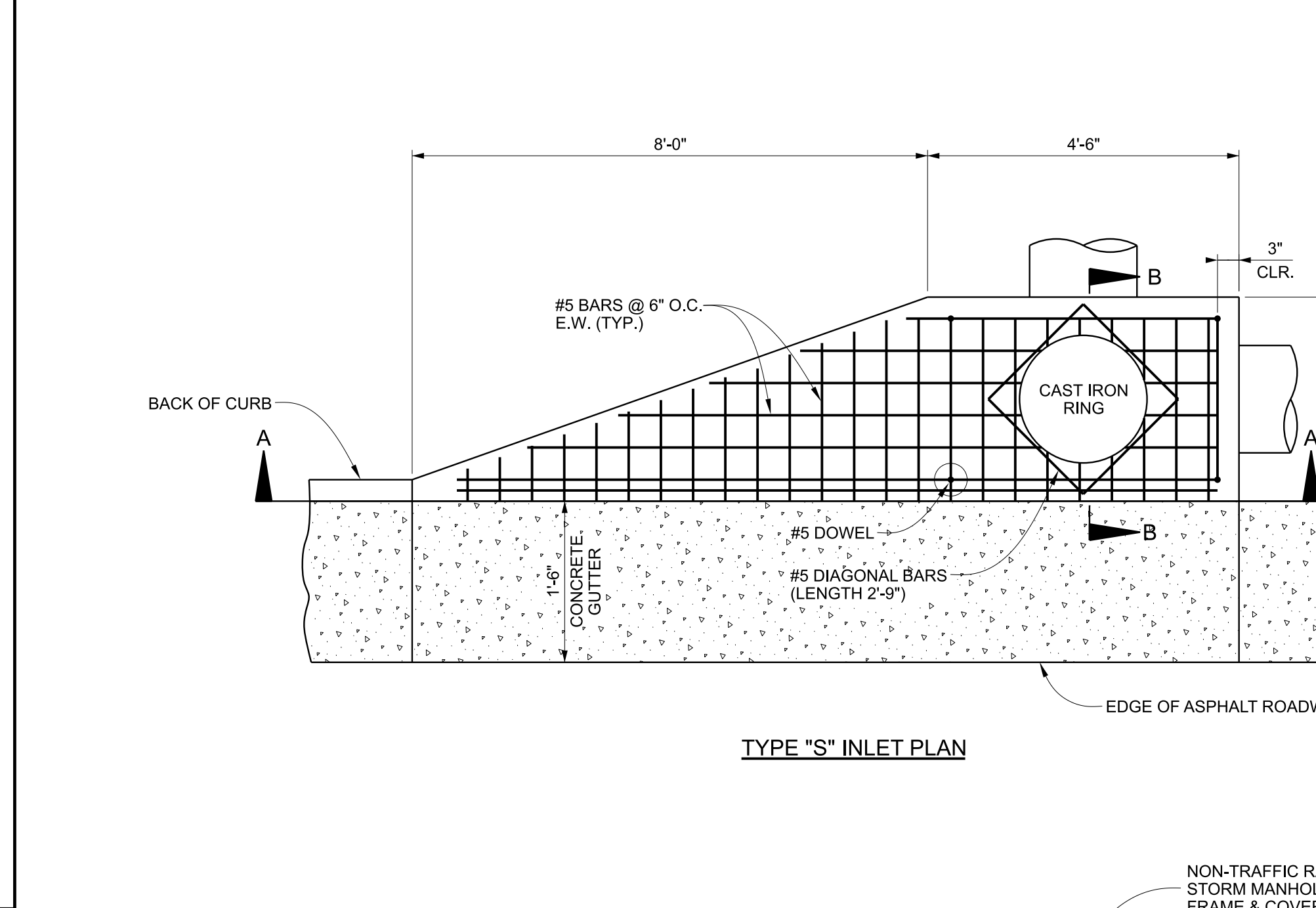


NOTE: THE CONTRACTOR SHALL CLOSELY MATCH THE FONT SIZING, STYLE, AND GENERAL COLOR SCHEME OF THE EXISTING WWTP SIGNAGE

H1 YARD HYDRANT ASSEMBLY DETAIL NTS



D1 BOLLARD DETAIL 1/2"=1'-0"



A4 "S" INLET DETAIL NO SCALE

GENERAL NOTES:

- ALTERNATIVE DESIGN: THE CONTRACTOR SHOULD HAVE THE OPTION TO SALVAGE THE EXISTING INLET COVER, DOCUMENT THE AS CONSTRUCTED DIMENSIONS, AND RECONSTRUCT THE INLET TO ITS EXISTING DIMENSIONS AND ARRANGEMENT. OTHERWISE, CONSTRUCT NEW INLET AS DETAILED.
- SINGLE WING "S" INLET SHALL BE RECONSTRUCTED TO THE ELEVATIONS SHOWN ON SHEET C2-02 IN ORDER TO ACCOMMODATE EXISTING PIPING.
- WHERE DIRECTION OF FLOW IS FROM EACH END OF INLET, SIDING OPENINGS (AS SHOWN ON ONE SIDE ONLY ON THIS DRAWING) SHALL BE CONSTRUCTED AT EACH END OF INLET, FOR EACH INLET SO CONSTRUCTED.
- TO ACCOMMODATE SKEWED PIPE OR FIT OTHER CONDITIONS, IT MAY BE NECESSARY TO INCREASE ONE OR BOTH PLAN VIEW DIMENSIONS OF INLET BOX AND COVER SLAB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRESPONDING INCREASE IN MATERIALS AND OTHER COSTS WHERE CHANGES IN DIMENSIONS ARE REQUIRED.
- INLET WITH BOX SIZED FOR 15"-30" PIPE SHALL BE DESIGNATED AS TYPE S3, FOR 36"-54" PIPE AS TYPE S4.
- MIRROR DESIGN ABOUT CENTER LINE B-B FOR DOUBLE WING CURB INLET.

A1 CLEANOUT DETAIL NO SCALE



Project No. 21024

**MUNICIPAL UTILITIES BOARD OF ALBERTVILLE**  
**EASTSIDE WWTP**  
**FINAL CLARIFIER IMPROVEMENTS**  
**ALBERTVILLE, ALABAMA**



Designed KAM / ASM	Project No. <b>21024</b>
Drawn CLM	
Checked MAS	

No.	Date	Description
1	02/18/26	ISSUED FOR BID

**EROSION CONTROL NOTES & DETAILS**

Issue Date <b>FEB. 2026</b>	Sheet No. <b>DT-03</b>
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THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF WIND-BORNE SEDIMENT FROM LEAVING THE PROPERTY. THE CONTRACTOR SHALL SPRINKLE WATER ON BARE SOIL AREAS AS REQUIRED TO WET THE SURFACE. THE CONTRACTOR SHALL ADJUST THE FREQUENCY OF THESE SPRINKLINGS TO MATCH FIELD CONDITIONS.

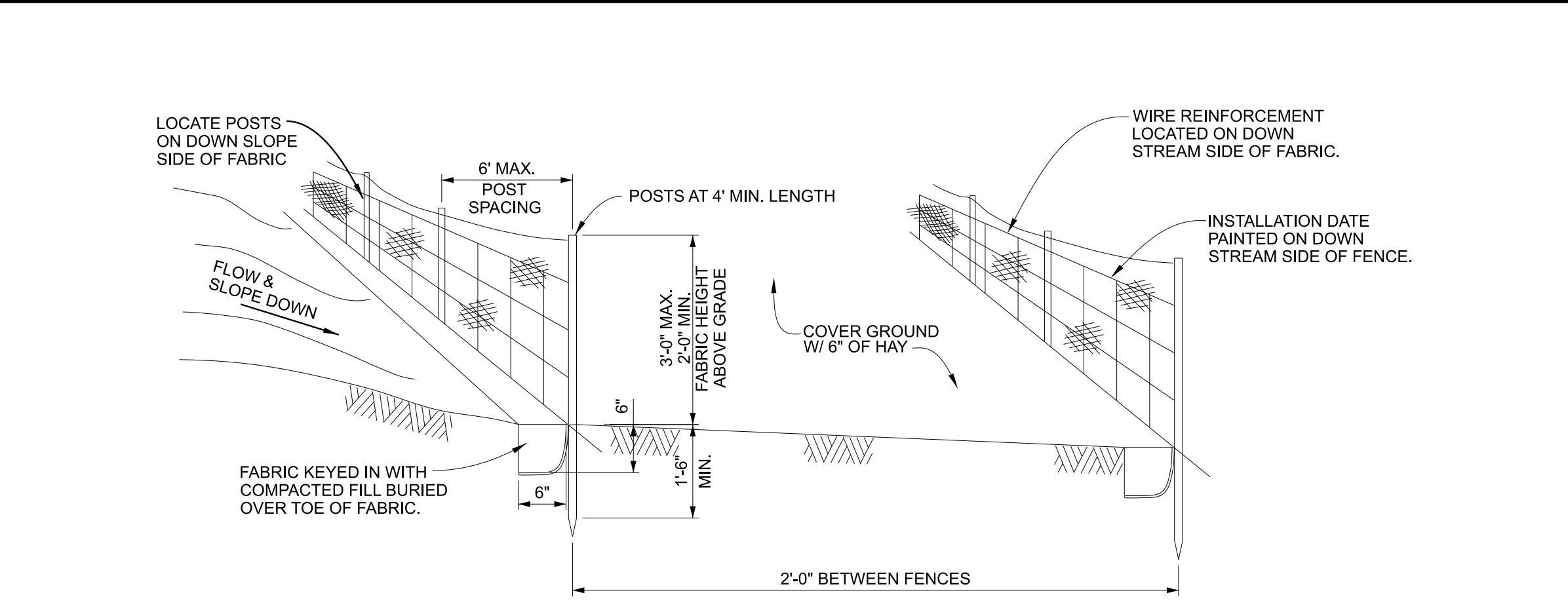
**L1 DUST CONTROL NOTE**

- THE EROSION CONTROL MEASURES SHOWN ON SHEET C2-02 ARE A REQUIRED MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SEDIMENT TRANSPORT FROM THIS PROPERTY IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ADDITIONAL DEVICES AND IMPLEMENT ADDITIONAL PRACTICES IF WARRANTED BY FIELD CONDITIONS.
- PRIOR TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL SILT FENCING AND SEDIMENT TRAPS, SEDIMENT BASINS, AS SHOWN.
- THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES AND PRACTICES. INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT OF 1/2" OR GREATER.
- THE CONTRACTOR SHALL BEGIN STABILIZATION MEASURES IN PORTIONS OF THE DISTURBED AREA AS SOON AS PRACTICABLE. HOWEVER, STABILIZATION MEASURES MUST BE INITIATED WITHIN 14 CALENDAR DAYS ON PORTIONS WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED. ADDITIONALLY, STABILIZATION MEASURES MUST BE INITIATED WITHIN 21 CALENDAR DAYS ON PORTIONS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.
- ALL DISTURBED AREAS NOT ENCOMPASSED BY STRUCTURES, PAVEMENT OR CALLED OUT FOR OTHER SURFACE TREATMENT SHALL BE, AT A MINIMUM, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EROSION CONTROL MEASURES EXCEPT CHANNEL LINING AND OUTLET PROTECTION AFTER SITE STABILIZATION. THE CONTRACTOR SHALL DRESS ALL AREAS TO THE LINE AND GRADE SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND/OR FLUSHING SEDIMENT FROM EXISTING STORM DRAINS IF AN EXCESSIVE AMOUNT IS COLLECTED DURING CONSTRUCTION ACTIVITIES.
- CONTRACTOR ENTRANCES SHALL BE ESTABLISHED AND MAINTAINED FOR ENTIRE PROJECT TO PREVENT TRACKING OF MUD/DIRT OR DEBRIS ONTO THE PUBLIC RIGHT-OF-WAY AND ALL ADJACENT PROPERTIES ANY MUD/DIRT OR DEBRIS THAT IS INADVERTENTLY TRACKED ON TO PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY.

**G1 EROSION CONTROL NOTES**

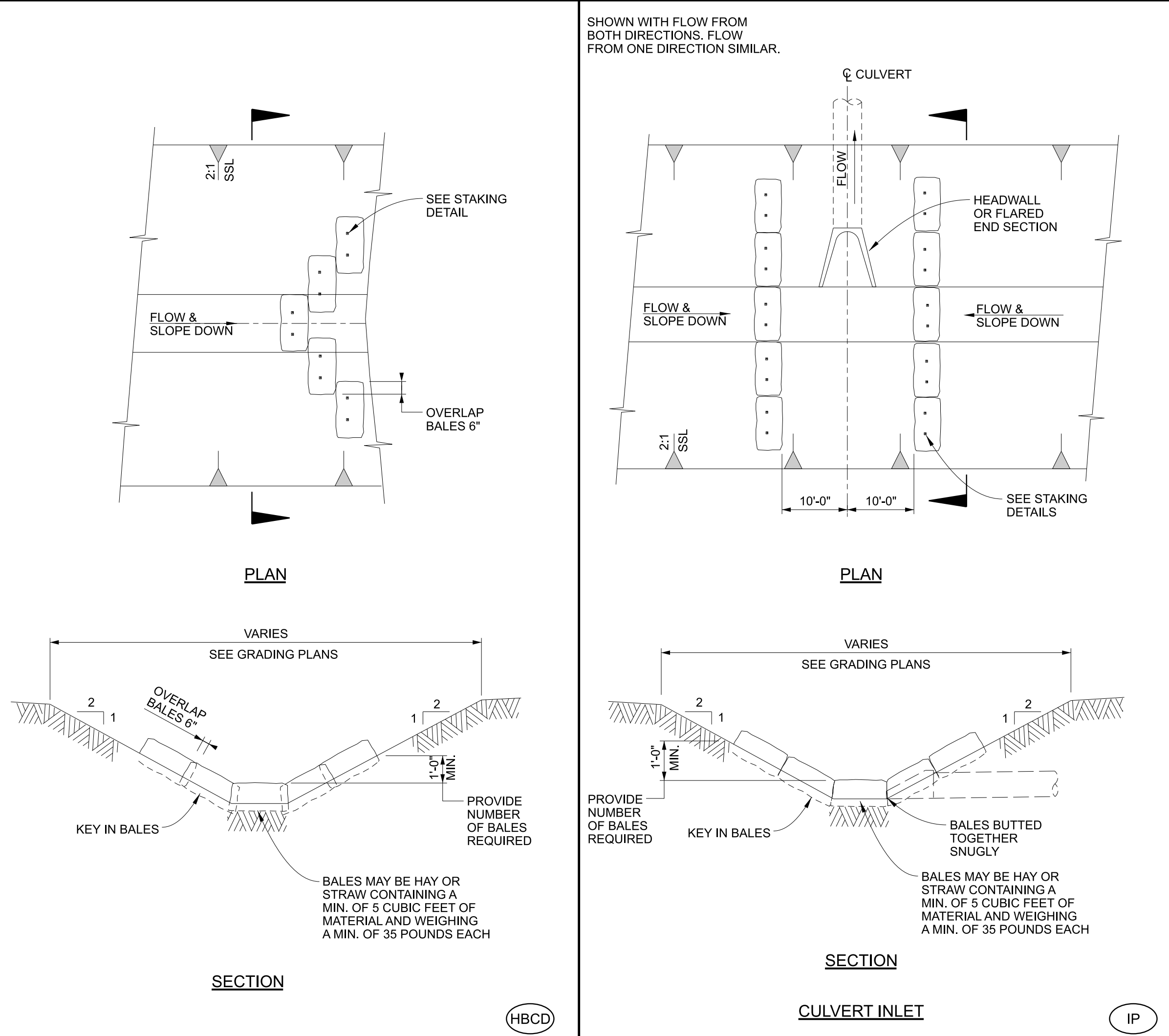
- EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S)**
- A. GENERAL:
- THE CONTRACTOR SHALL UTILIZE EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT THE DISCHARGE OF SEDIMENT-BEARING WATER RUNOFF OR AIRBORNE DUST FROM THE PROJECT SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES FOR STORM-WATER DISCHARGE FROM THE CONSTRUCTION SITE(S) FOR ALL WORK DESCRIBED IN THESE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS AND OBLIGATIONS OF THE PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MAKING APPLICATION FOR THE PERMIT AND FOR MEETING THE REQUIREMENTS OF THE PERMIT.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF ALL BMP'S IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITTING AUTHORITY.
  - THE CONTRACTOR SHALL ENSURE THAT ALL DOWNSLOPE BMP'S ARE INSTALLED AND FUNCTIONAL BEFORE ANY LAND DISTURBING ACTIVITY IS COMMENCED ON ANY PORTION OF THE SITE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADDITIONAL BMP'S IF REQUIRED BY FIELD CONDITIONS, THE ARCHITECT/ENGINEER OR A PERMITTING AUTHORITY HAVING JURISDICTION OVER THE SITE.
- B. SILT FENCE:
- THE INSTALLATION OF SILT FENCES SHALL BE IN PERFORMANCE WITH THE SILT FENCE MANUFACTURER'S RECOMMENDATIONS. PARTICULAR CARE SHALL BE EXERCISED TO ENSURE THAT ALL SILT FENCING IS PROPERLY KEYED INTO THE EARTH AT THE TOE.
  - THE CONTRACTOR SHALL MAINTAIN, CLEAN, REPAIR OR REPLACE SILT FENCE AS MAY BE REQUIRED DURING THE CONSTRUCTION PERIOD. IF A LINE OF SILT FENCING EXCEEDS ITS CAPACITY TO FUNCTION PROPERLY AND THE NEED FOR A BACK-UP FENCE BECOMES EVIDENT, THE CONTRACTOR SHALL INSTALL A SECONDARY LINE OF SILT FENCE AT THE AFFECTED AREAS AS REQUIRED AND AUTHORIZED BY THE ARCHITECT/ENGINEER. FAILURE TO MAINTAIN A SILT FENCE SHALL NOT BE CAUSE FOR THE CONTRACTOR TO CLAIM ADDITIONAL COMPENSATION.
- C. HAY BALES:
- HAY BALES SHALL BE INSTALLED USING KEYWAYS CUT INTO GRADE OR AGGREGATE FILL BEDDING AS REQUIRED. ALL HAY BALES SHALL BE PROPERLY ORIENTED AND STAKED. HAY BALES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN THE PROJECT AREA UPSLOPE FROM THEM HAS BEEN STABILIZED.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE PERIODIC CHECKING AND MAINTENANCE OF HAY BALE INSTALLATIONS. SILT TRAPPED BY HAY BALE INSTALLATIONS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
- D. AFTER STABILIZATION OF THE DISTURBED AREA HAS BEEN ACHIEVED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY BMP'S AND DRESS OUT THOSE AREAS TO THE PROPER LINE AND GRADE.

**A1 BEST MANAGEMENT PRACTICES NOTES**

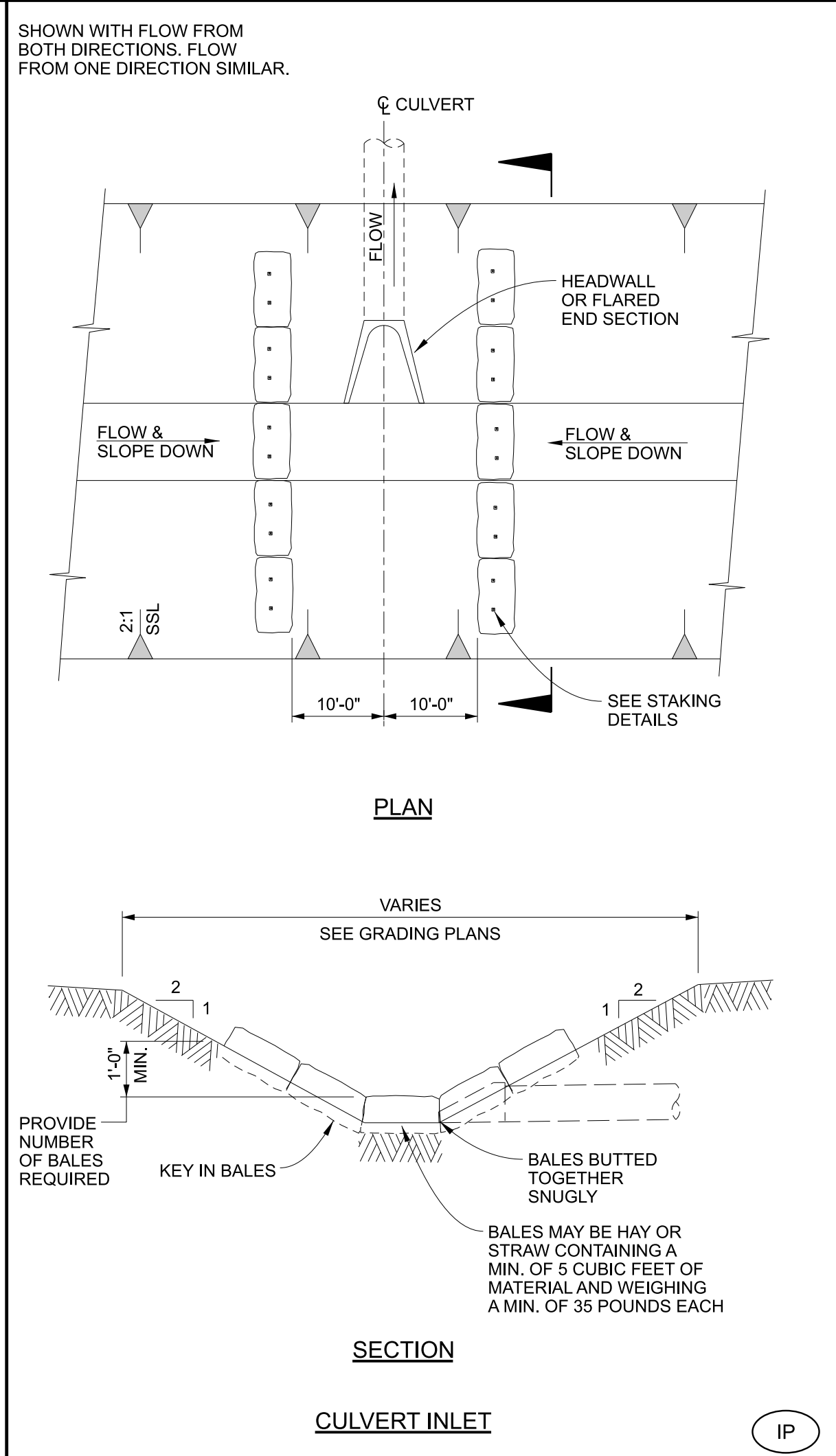


- NOTES:
- DOUBLE ROW SILT FENCE IS ONLY REQUIRED AT THE PERIMETER OF THE CONSTRUCTION SITE AND / OR UPSLOPE OF EXISTING DRAINAGE DITCHES.
  - FABRIC SHALL BE TYPE A, GEOTEXTILES FOR USE AS SILT FENCE. FABRIC SHALL BE ATTACHED TO WIRE REINFORCEMENT WITH STEEL HOG RINGS. ATTACH STEEL REINFORCEMENT TO 1" POSTS USING STEEL U-CLIPS.
  - POSTS SHALL BE:  
STEEL 1" SHAPE WITH A MIN. WEIGHT OF 1.3 LBS PER FOOT
  - WIRE REINFORCING SHALL BE GALVANIZED STEEL WIRE AS FOLLOWS:  
A. 4"x4" MESH SIZE, W1.4/1.4, 14 GAUGE.  
B. HAY WIRE, 12 GAUGE, WITH SMALLER OPENINGS INSTALLED AT BOTTOM OF SILT FENCE.
  - MAINTENANCE: MAINTAIN SILT FENCE UNTIL FINAL STABILIZATION IS ACHIEVED. FILTER FABRIC SHALL BE REMOVED AND REPLACED WHENEVER IT HAS DETEIORATED OR BEEN OTHERWISE DAMAGED TO SUCH EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SILT FENCE.
  - REMOVE SILT WHEN ACCUMULATION LEVELS REACH ONE HALF OF THE SILT FENCE HEIGHT.
  - THE CONTRACTOR SHALL MARK THE DOWN STREAM SIDE OF THE SILT FENCE WITH THE DATE OF THE SILT FENCE INSTALLATION. THE DATE SHALL BE SPRAY PAINTED WHITE WITH 12" MIN. LETTERING, DDMMYY, @ 100' INTERVALS.
  - THE FILTER FABRIC SHALL CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS:
- | PHYSICAL PROPERTY                  | TEST METHOD                | TEST RESULTS |
|------------------------------------|----------------------------|--------------|
| GRAB TENSILE STRENGTH, LBS. MIN.   | ASTM D-4632                | 100          |
| GRAB ELONGATION, % MAX.            | ASTM D-4632                | 40           |
| MULLEN BURST STRENGTH, PSI. MIN.   | ASTM D-3786                | 175          |
| APPARENT OPENING SIZE              | ASTM D-4751                | 30           |
| U.S. STANDARD SIEVE                |                            |              |
| FLOW RATE, MAX. GAL/MINUTE/SQ. FT. | ASTM D-4491                | 70           |
| UV RESISTANCE, % MIN.              | ASTM D-4632<br>ASTM D-4355 | 80           |

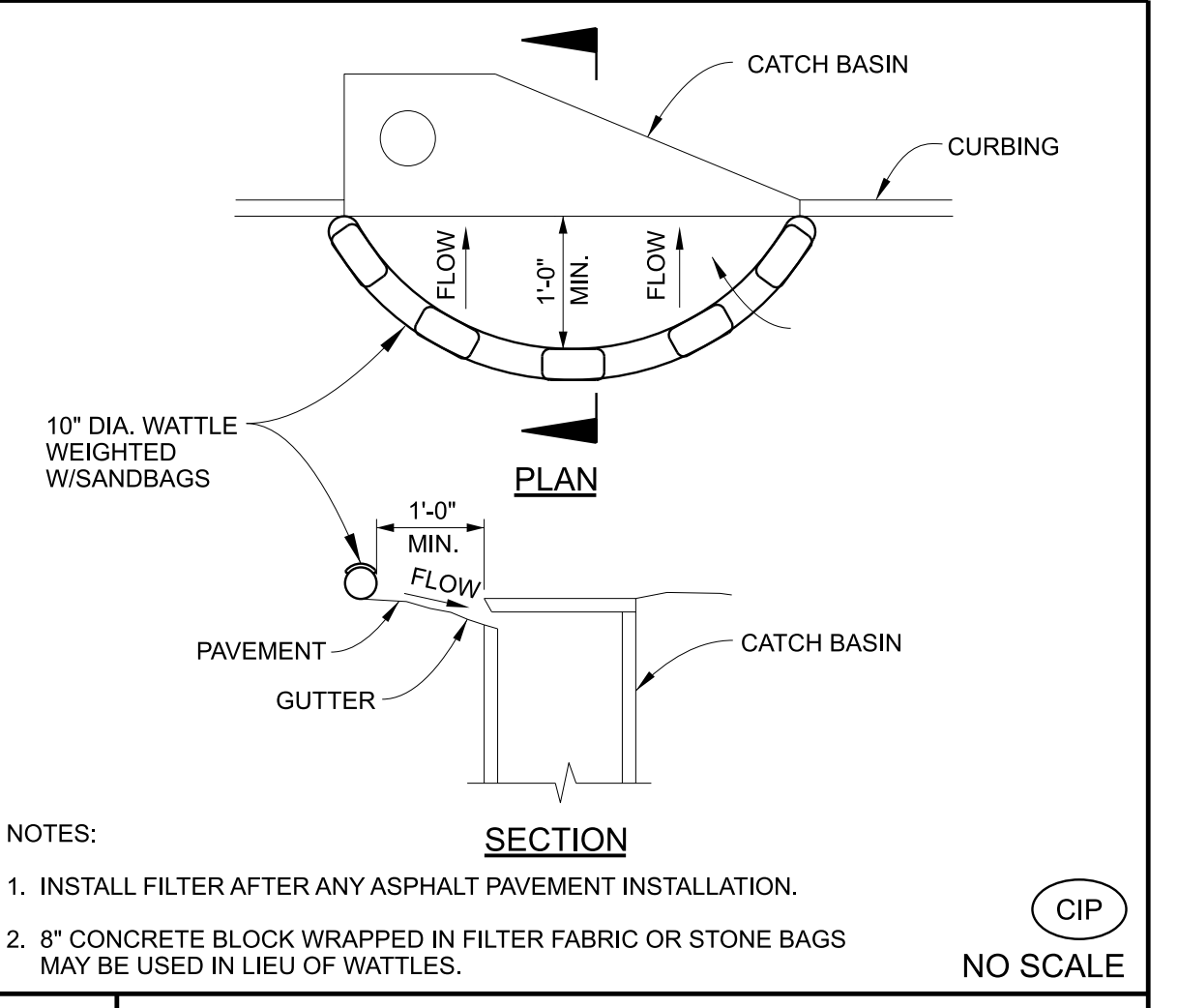
**G4 TYPE A SILT FENCE DETAIL NO SCALE**



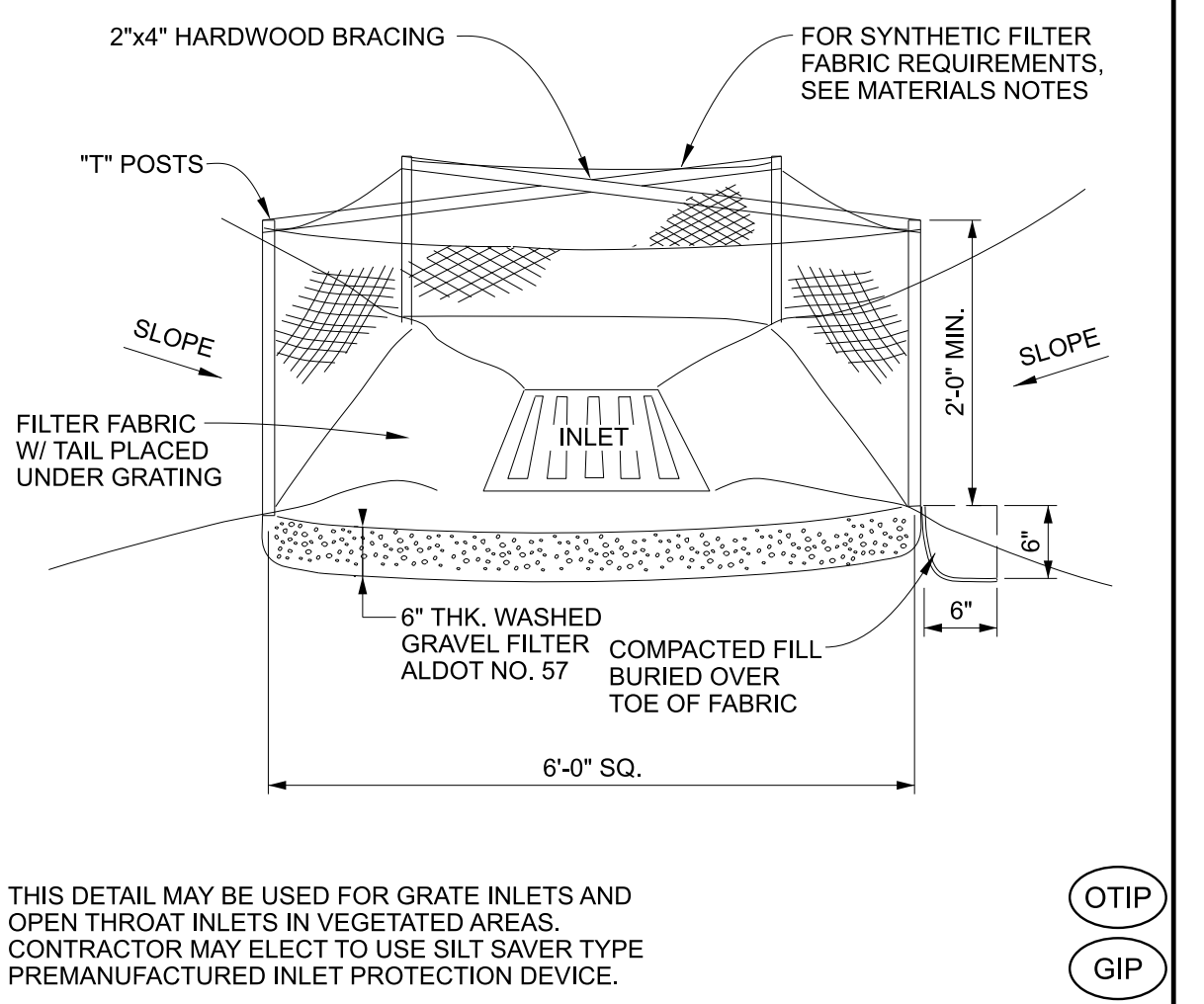
**A4 HAY BALE CHECK DAM DETAIL NO SCALE**



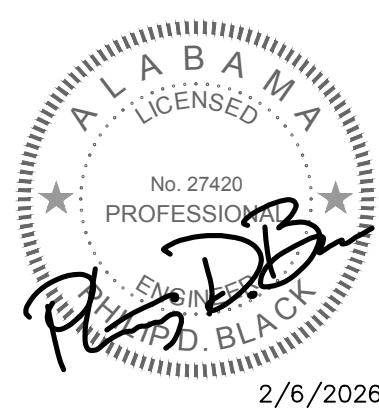
**G7 INLET PROTECTION DETAIL NO SCALE**



**D10 CURB INLET PROTECTION DETAIL**



**A10 INLET PROTECTION DETAIL NO SCALE**



**JACKSON, RENFRO & ASSOCIATES, INC.**  
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MUNICIPAL UTILITIES BOARD OF ALBERTVILLE  
EASTSIDE WASTEWATER TREATMENT  
PLANT CLARIFIER IMPROVEMENTS  
ALBERTVILLE, ALABAMA



Designed: PDB  
Drawn: RGN  
Checked: PDB  
Revisions:  
No. Date Description

Project No.	21024
Issue Date	FEB., 2026
Sheet No.	E0-01

ELECTRICAL LEGEND, NOTES & SCHEDULES

Issue Date: FEB., 2026  
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**GENERAL ELECTRICAL NOTES**

- SPECIAL ATTENTION IS CALLED TO THE FACT THAT THIS IS AN OPERATING FACILITY, AND AS SUCH, NO UNNECESSARY SHUTDOWNS WILL BE ALLOWED. ANY NECESSARY SHUTDOWNS SHALL BE APPROVED IN WRITING BY THE PLANT MANAGER A MINIMUM OF TWO (2) WEEKS IN ADVANCE.
- ELECTRICAL PLANS & DETAILS INDICATE TYPICAL WIRING REQUIREMENTS FOR PROCESS EQUIPMENT BASED ON BASIS-OF-DESIGN SYSTEMS/EQUIPMENT. VERIFY EXACT WIRING REQUIREMENTS & ALL DEVICE LOCATIONS WITH APPROVED MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN. NO ADDITIONAL COMPENSATION WILL BE PAID FOR ADJUSTMENTS REQUIRED TO COMPLY WITH REQUIREMENTS OF NON BASIS-OF-DESIGN SYSTEMS/EQUIPMENT SUPPLIERS.
- CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ENGINEER.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH NEC.
- WET OR PROCESS AREAS (FOR USE IN DETERMINING TYPES OF MATERIALS REQUIRED PER ELECTRICAL SPECIFICATIONS) SHALL BE DEFINED AS ALL AREAS WITHIN THE PROJECT SCOPE EXCEPT THE FOLLOWING:  
A. ELECTRICAL ROOMS AND OTHER SIMILAR ANCILARY CONDITIONED SPACES.
- HARDWARE MODIFICATIONS WITHIN THE EXISTING SCADA RTU IN ELEC. BLDG. NO. 3 (AND ASSOCIATED SCADA SYSTEM SOFTWARE, PROGRAMMING, ETC. MODIFICATIONS) WILL BE BY OWNER (N.I.C.)

**H10 ELECTRICAL NOTES** SCALE: NONE

**LIGHTING FIXTURE SCHEDULE**

MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS			MOUNTING HEIGHT	MOUNTING TYPE	REMARKS
				WATTS	LUMENS	TYPE			
F	LITHONIA COLUMBIA DAY-BRITE	DSXF1-LED-P140K-FL-YKC62	120	21	2,965	LED	YOKE MOUNT TO SIDE OF BRIDGE STRUCTURE SIMILAR TO EXISTING FIXTURES		
Y	TBD	OWNER FURNISHED CONTRACTOR INSTALLED	120	TBD	TBD	LED	OWNER FURNISHED POLE AND FIXTURE SHALL BE INSTALLED BY CONTRACTOR PER DETAIL "E-LP1"	PC	
Z1	LITHONIA COLUMBIA DAY-BRITE	DSX0-LED-P3-40K-T5M-RPA-DNATXD-PER-DLL127F-1.5-JU	120	71	8,770	LED	MOUNT TO SWIVEL POLE PER DETAIL "E-LP3"	PC	

**LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**

- ALL LAMPS SHALL BE 4000K WITH A MINIMUM CRI OF 80 UNLESS NOTED OTHERWISE.
- ALL FIXTURES AND BALLASTS/DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.
- TO ENSURE PROPER COORDINATION AND LONG TERM SUPPORT FOR THE OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER'S REPRESENTATIVES AND DISTRIBUTORS LOCATED WITHIN (150) MILES OF THE PROJECT SITE. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON-COMPLIANCE WITH THIS REQUIREMENT.

**LIGHTING FIXTURE SCHEDULE KEYED NOTES:**

PC PROVIDE NEMA TWIST LOCK RECEPTACLE WITH PHOTOCELL ACCESSORY RATED FOR A MINIMUM OF 1800VA

**D10 LIGHT FIXTURE SCHEDULE** SCALE: NONE

**(EX) ELEC. BLDG NO. 3 SCADA RTU POINT LIST AND CONTROL & INSTRUMENTATION WIRING SCHEDULE**

HOMERUN MARK	TO	EQUIPMENT DESCRIPTION	PARAMETER	POINT TYPE	WIRING	SHEET	REMARKS
SC-CLAR3	SCADA RTU	FINAL CLARIFIER NO. 3	ON/OFF STATUS	DI	(1) 12C#14 - 1" C	E3-01	
			ON/OFF CONTROL	DO			
			HIGH SWITCH POSITION INDICATION	DI			
			TORQUE OVERLOAD SHUTDOWN ALARM	DI			
			TORQUE OVERLOAD PRE-ALARM	DI			
			STARTER OVERLOAD ALARM	DI			

NOTES:  
1. THIS SCHEDULE ONLY SHOWS NEW SCADA I/O POINTS. EXISTING I/O POINTS ARE NOT SHOWN. SEE GENERAL ELECTRICAL NOTE 6.

**CONTROL & INSTRUMENTATION WIRING SCHEDULES LEGEND & NOTES**

**LEGEND:**  
"DI" - DISCRETE INPUT POINT  
"DO" - DISCRETE OUTPUT POINT  
"AI" - ANALOG INPUT POINT  
"AO" - ANALOG OUTPUT POINT

**NOTES:**  
1. ALL CONTROL CABLING (IDENTIFIED WITH "CI" OR SIMILAR DESIGNATIONS) SHALL BE 600V MULTI-CONDUCTOR TRAY CABLE PER SPECIFICATION REQUIREMENTS.  
2. ALL INSTRUMENTATION CABLING (IDENTIFIED WITH "TSP" OR "SHD" DESIGNATIONS) SHALL BE 300V TWISTED, OVERALL-SHEATHED TRAY CABLE.

**A10 CONTROL & INSTRUMENTATION SCHEDULE** SCALE: NONE

**GENERAL ELECTRICAL LEGEND**

**NORMAL EMERGENCY**

FIXTURE OUTLET - POLELIGHT - QUANTITY AND ORIENTATION(S) OF LUMINAIRES AS INDICATED ON PLANS.

FIXTURE DESIGNATIONS:  
A FIXTURE TYPE "A" - MAY BE USED WITH OTHER TYPES.  
b SWITCH LEG TO WHICH FIXTURE IS CONNECTED - MAY BE USED WITH OTHER LOWER-CASE LETTERS.  
2 CIRCUIT NUMBER - MAY BE USED WITH OTHER NUMBERS.

SWITCH OUTLET - WEATHERPROOF WITH PILOT LIGHT (CLEAR LIGHT ON WITH LOAD ON) - S.P.S.T. - 20A - 120-277VAC - HUBBELL #HBL1221PLC TOGGLE SWITCH WITH #HBL1795 CLEAR BUBBLE WEATHERPROOF PLATE - LABEL FUNCTION WITH ENGRAVED NAMEPLATE.

SWITCH OUTLET - CONTROLS OUTLET "o", ETC.

**DOUBLE DUPLEX**

WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - "CFT" TYPE - WEATHER RESISTANT - NEMA 5-20R - SINGLE PLATE.

FLOOR OR SURFACE-MOUNTED OUTLET - JUNCTION BOX.

OUTLET DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES & EQUIPMENT):  
HR OUTLET SHALL BE MOUNTED TO HANDRAIL - SEE DETAIL "E-HR".  
VL VERIFY EXACT OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.  
W WEATHER PROOF - OUTLET SHALL BE INSTALLED WITH WEATHERPROOF, IN-USE, CAST COVER.

BRANCH/FEEDER CIRCUIT - CONCEALED IN WALLS OR CEILING.  
BRANCH/FEEDER CIRCUIT - EXPOSED ON WALLS OR CEILING.  
BRANCH/FEEDER CIRCUIT - CONCEALED IN FLOOR SLAB OR DIRT FILL.  
BRANCH/FEEDER CIRCUIT - HOMERUN - CAN BE USED WITH OTHER BRANCH/FEEDER TYPES.

BRANCH/FEEDER CIRCUIT MODIFIERS:  
: 2#12 & 1#12G UNLESS NOTED OTHERWISE.  
: 3#12 & 1#12G, ETC. UNLESS NOTED OTHERWISE (TICK MARKS INDICATE CONDUCTOR QUANTITY NOT INCLUDING GROUND WIRE).  
-10- : 2#10 & 1#10G UNLESS NOTED OTHERWISE (NUMBER INDICATES WIRE AWG).  
SIZE CONDUIT PER N.E.C. OR AS NOTED (WHICHEVER IS GREATER).

FLEXIBLE CONNECTION TO EQUIPMENT.

POWER AND INSTRUMENTATION DUCT BANK - SEE DETAIL "E-DR"

POWER DISTRIBUTION EQUIPMENT.  
LIGHTING PANEL - SURFACE MOUNTED.  
TRANSFORMER - POWER.  
TYPICAL CONTROL & INSTRUMENTATION WIRING MARK (WHERE "\*\*\*" REPRESENTS A UNIQUE IDENTIFIER CONSISTING OF LETTERS AND NUMBERS) - SEE CONTROL & INSTRUMENTATION WIRING SCHEDULES.  
MOTOR OUTLET - SIZE AS SHOWN.  
ABOVE-GRADE POWER PULLBOX - SEE DETAIL "E-PB1".  
PUSHBUTTON STATION/CONTROL STATION.  
TORQUE SWITCH.

**DETAIL DESIGNATOR** - "A" INDICATED DETAIL MARK - "E-1" INDICATED SHEET NUMBER WHERE DETAIL IS LOCATED (TYPICAL).

**GENERAL ABBREVIATIONS:**  
(EX) EXISTING TO REMAIN.  
(EX-R) EXISTING TO BE REMOVED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING CONNECTIONS TO OTHER ELECTRICAL ITEMS.  
(EX-RL) EXISTING TO BE RELOCATED - REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING AT EXISTING LOCATION. RELOCATE ITEM TO NEW LOCATION SHOWN ON ELECTRICAL PLANS.  
(EX-RP) EXISTING TO BE REPLACED - EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING TO REPLACED ITEM.

**ELECTRICAL ABBREVIATIONS:**

A AMPERES.	NSV NEW, SPARE OR VACATED.
AIC AMPERES INTERRUPTING CAPACITY.	OC ON CENTER.
AFF ABOVE FINISHED FLOOR.	P POLES.
AL ALUMINUM.	PF POWER FACTOR.
ATS AUTOMATIC TRANSFER SWITCH.	Ø PHASE.
AWG AMERICAN WIRE GAUGE.	PVC POLYVINYL CHLORIDE.
C CONDUIT.	SLD SINGLE LINE DIAGRAM.
CU COPPER.	SS STAINLESS STEEL.
EC EMPTY CONDUIT. OR ELECTRICAL CONTRACTOR.	UL UNDERWRITERS LABORATORY.
FPN FUSE PER NAMEPLATE.	UNO UNLESS NOTED OTHERWISE.
G GROUND CONDUCTOR.	V VOLTS.
KVA KILOVOLT-AMPERES.	W WIRES.
KW KILOWATT.	CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
LV LOW VOLTAGE.	CFOI CONTRACTOR FURNISHED, OWNER INSTALLED.
MCM THOUSAND CIRCULAR MILS.	OFDI OWNER FURNISHED, OWNER INSTALLED.
MV MEDIUM VOLTAGE.	OFCI OWNER FURNISHED, CONTRACTOR INSTALLED.
N NEUTRAL.	
NEC NATIONAL ELECTRICAL CODE.	
NEMA NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION.	
NIC NOT IN CONTRACT.	

**TYPICAL CIRCUITRY DESIGNATIONS:**

2 SETS OF 4#3/0 & 1#3G - 2 1/2" C  
CONDUIT SIZE.  
GROUND CONDUCTOR WIRE GAUGE.  
QUANTITY OF GROUND CONDUCTORS (PER SET)  
PHASE/NEUTRAL CONDUCTOR WIRE GAUGE.  
QUANTITY OF PHASE/NEUTRAL CONDUCTORS (PER SET).  
QUANTITY OF PARALLEL SETS OF THE PHASE/NEUTRAL CONDUCTORS, GROUND CONDUCTOR AND CONDUIT SPECIFIED.

**MULTI-CONDUCTOR CONTROL 600V TRAY CABLE DESIGNATIONS:**

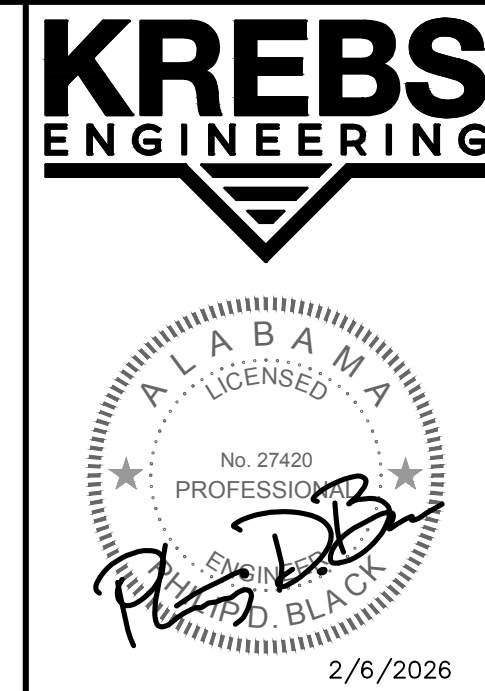
(2) 4C#14 W/G - 1 1/4" C  
CONDUIT SIZE.  
"W/G" = WITH ADDITIONAL INTEGRAL GROUND CONDUCTOR WITH GREEN INSULATION IN EACH CABLE SHEATH.  
WIRE GAUGE.  
QUANTITY OF CONDUCTORS IN EACH CABLE SHEATH (NOT INCLUDING GROUND).  
QUANTITY OF MULTI-CONDUCTOR CABLES OF THE TYPE SPECIFIED WITHIN THE SPECIFIED CONDUIT.

**TWISTED, SHIELDED INSTRUMENTATION CABLE DESIGNATIONS:**

(2) #16TSP - 1" C  
CONDUIT SIZE.  
"TSP" = TWISTED SHIELDED PAIR.  
WIRE GAUGE.  
QUANTITY OF INSTRUMENTATION CABLES IN THE SPECIFIED CONDUIT.

**A1 ELECTRICAL LEGEND** SCALE: NONE

M  
L  
K  
J  
H  
G  
F  
E  
D  
C  
B  
A



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EASTSIDE WASTEWATER TREATMENT  
PLANT CLARIFIER IMPROVEMENTS  
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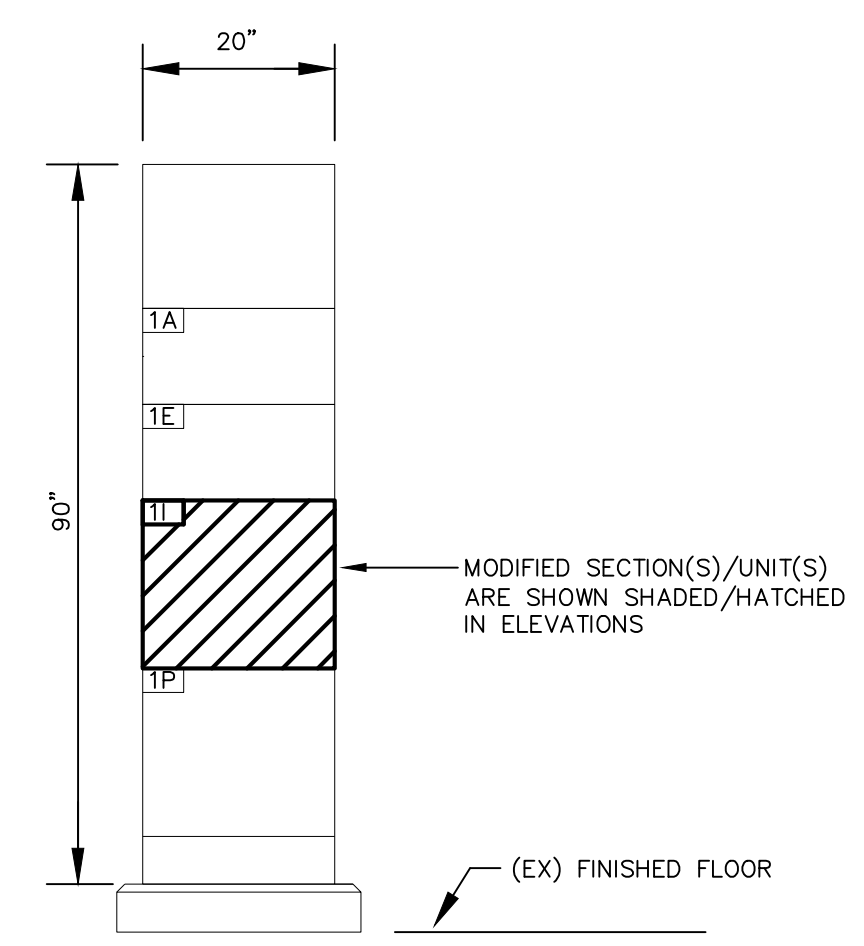
Revisions		
No.	Date	Description

Sheet Title  
**ELECTRICAL SCHEDULES**

Issue Date FEB., 2026	Sheet No. E0-02
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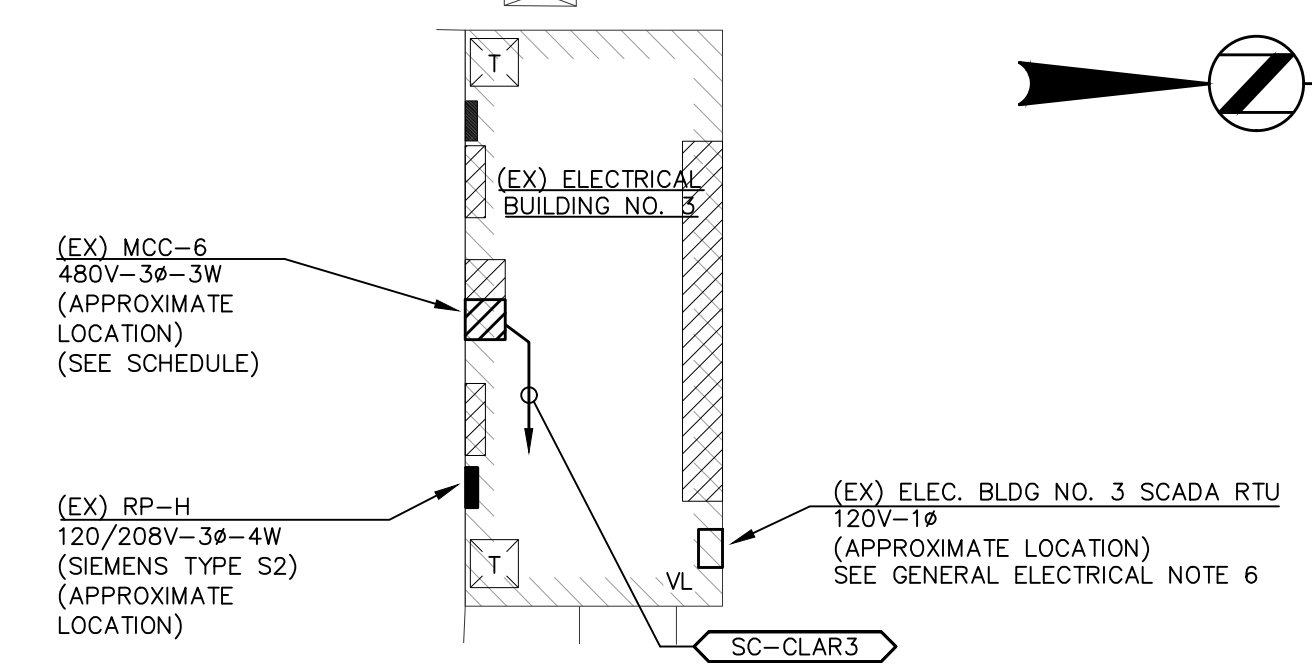
MOTOR CONTROL CENTER SCHEDULE - (EX) MCC-6													
MCC TYPE: SIEMENS MODEL 95			AIC RATING: (EX) 25KAC										
VOLTAGE: 480V-3P-3W			LOCATION: (EX) ELECTRICAL BUILDING NO. 3										
MAIN AMPS: (EX) 600A - MLO			REMARKS: EXISTING SIEMENS SERIAL NO: 34-1430-11665										
FED FROM: (EX) PP-G			FEEDER: EXISTING										
UNIT NO.	NAMEPLATE DESCRIPTION	MCC UNIT TYPE	ELECT. EQUIP. CHARACTERISTICS					STARTER NEMA OR AMPERAGE RATING	CIR. BKR. OR MCP	ELEM. DIAG. NO.	LOCAL SAFETY SWITCH RATING	WIRE AND COND. SIZE	REMARKS
			V	P	HP	KW OR KVA	AMPS						
1 A	(EX) FINAL CLARIFIER NO. 2	EXISTING STARTER	480	3	1			EXISTING	EXISTING		-	EXISTING	
1 E	(EX) MIXER NO. 1	EXISTING STARTER	480	3	15			EXISTING	EXISTING		-	EXISTING	
1 I	FINAL CLARIFIER NO. 3	COMBINATION FVNR STARTER WITH MCP	480	3	1			NEMA 1	MCP PER MANUF.	1	-	SEE PLANS	REPLACE EXISTING UNIT & ALL LABELING (NOTE 1)
1 P	(EX) AERATOR NO. 3	EXISTING	480	3							-		
NOTES:													
1. FOR INDICATED UNITS, REMOVE ALL (EX) INTERIOR COMPONENTS AND PROVIDE NEW COMPONENTS AS REQUIRED. REPLACE UNIT DOOR WITH NEW DOOR AND ALL NEW DOOR-MOUNTED COMPONENTS. SEE ASSOCIATED ELEMENTARY DIAGRAM FOR ALL NEW REQUIREMENTS.													

MODIFIED SECTION(S)/UNIT(S) WITHIN EXISTING MCC'S ARE SHOWN SHADED IN ELEVATIONS

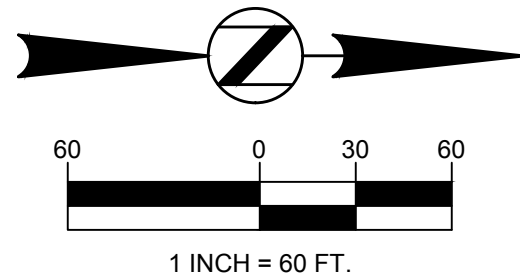
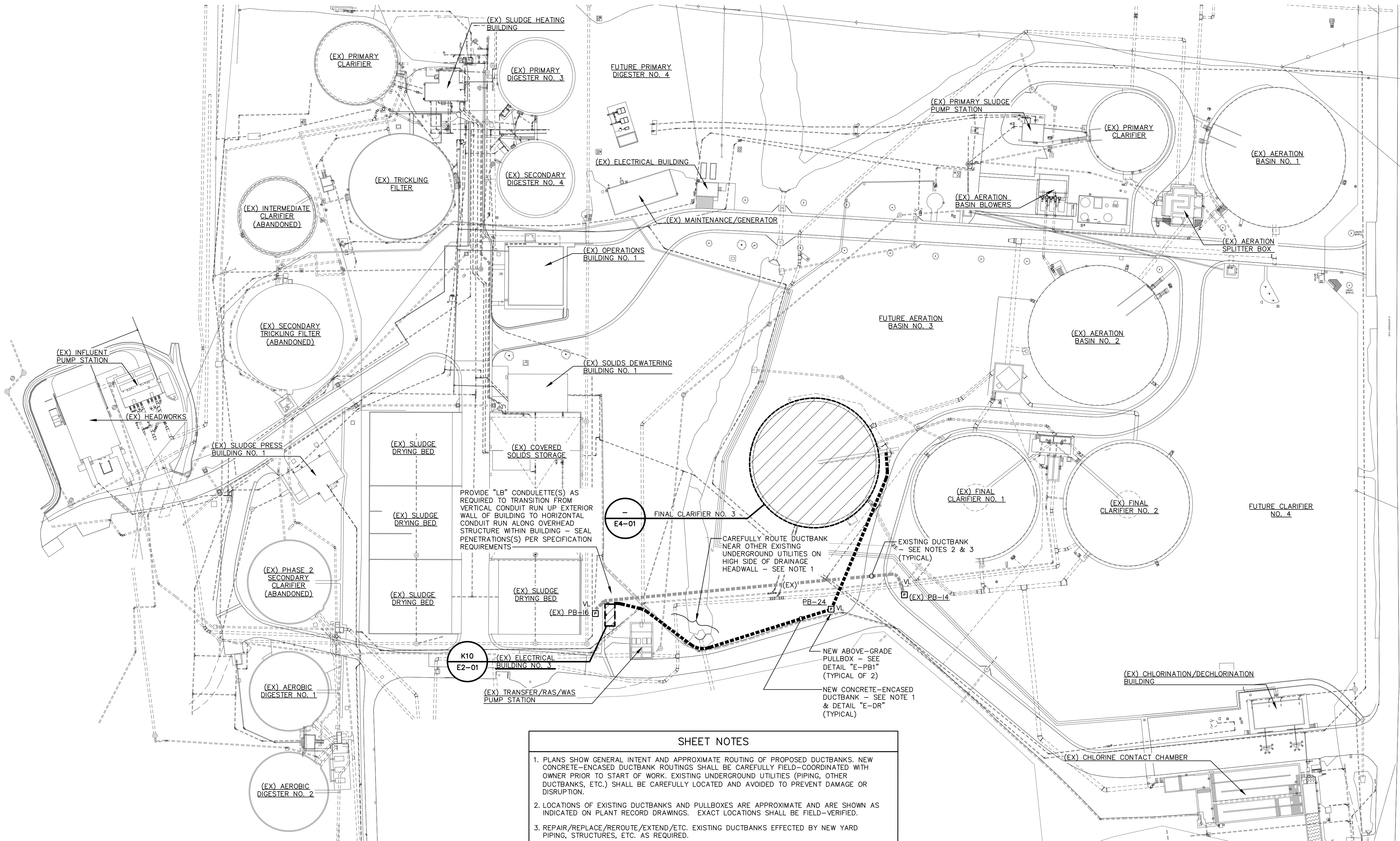


**(EX) MCC-6 ELEVATION**  
SCALE : 1/2" = 1'-0"





K10 ELECTRICAL BUILDING NO. 3 LARGE SCALE ELECTRICAL PLAN SCALE: 1/8" = 1'-0"



**SHEET NOTES**

1. PLANS SHOW GENERAL INTENT AND APPROXIMATE ROUTING OF PROPOSED DUCTBANKS. NEW CONCRETE-ENCASED DUCTBANK ROUTINGS SHALL BE CAREFULLY FIELD-COORDINATED WITH OWNER PRIOR TO START OF WORK. EXISTING UNDERGROUND UTILITIES (PIPING, OTHER DUCTBANKS, ETC.) SHALL BE CAREFULLY LOCATED AND AVOIDED TO PREVENT DAMAGE OR DISRUPTION.
2. LOCATIONS OF EXISTING DUCTBANKS AND PULLBOXES ARE APPROXIMATE AND ARE SHOWN AS INDICATED ON PLANT RECORD DRAWINGS. EXACT LOCATIONS SHALL BE FIELD-VERIFIED.
3. REPAIR/REPLACE/REROUTE/EXTEND/ETC. EXISTING DUCTBANKS EFFECTED BY NEW YARD PIPING, STRUCTURES, ETC. AS REQUIRED.

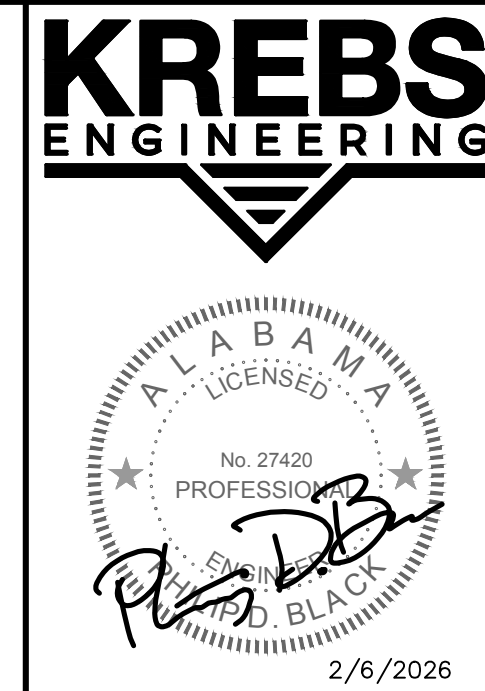
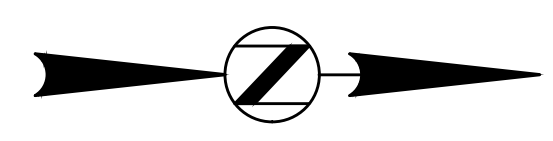
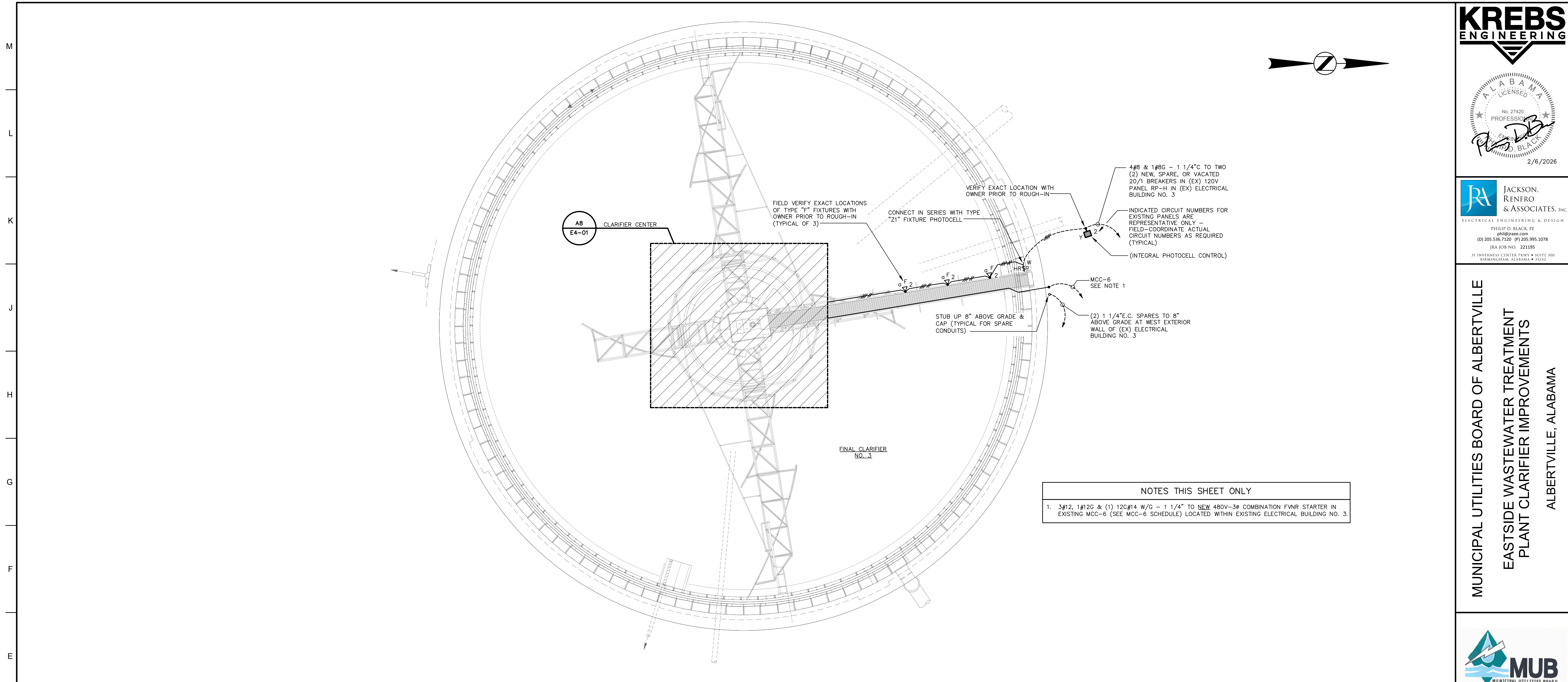
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Designed	PDB	Project No.	
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Checked	PDB		

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Sheet Title	
OVERALL SITE ELECTRICAL PLAN	
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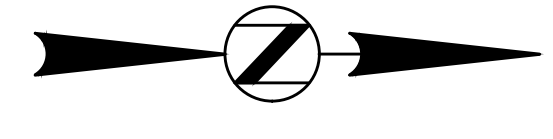


**NOTES THIS SHEET ONLY**

1. 3#12, 1#12G & (1) 12C#14 W/G - 1 1/4" TO NEW 480V-3Ø COMBINATION FVNR STARTER IN EXISTING MCC-6 (SEE MCC-6 SCHEDULE) LOCATED WITHIN EXISTING ELECTRICAL BUILDING NO. 3.

E1 FINAL CLARIFIER NO. 3 ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"



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No.	Date	Description

Sheet Title  
**FINAL CLARIFIER NO. 3  
 ELECTRICAL PLANS**

Issue Date  
**FEB., 2026**

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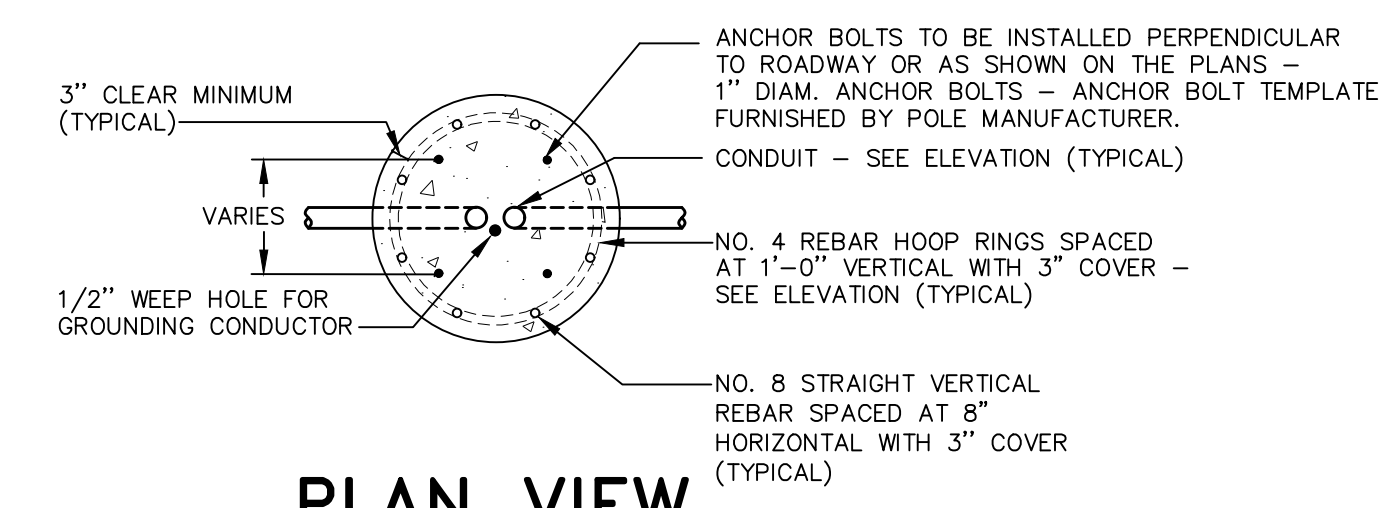
Sheet No.  
**E4-01**

A8 LARGE SCALE TYPICAL CLARIFIER CENTER ELECTRICAL PLAN

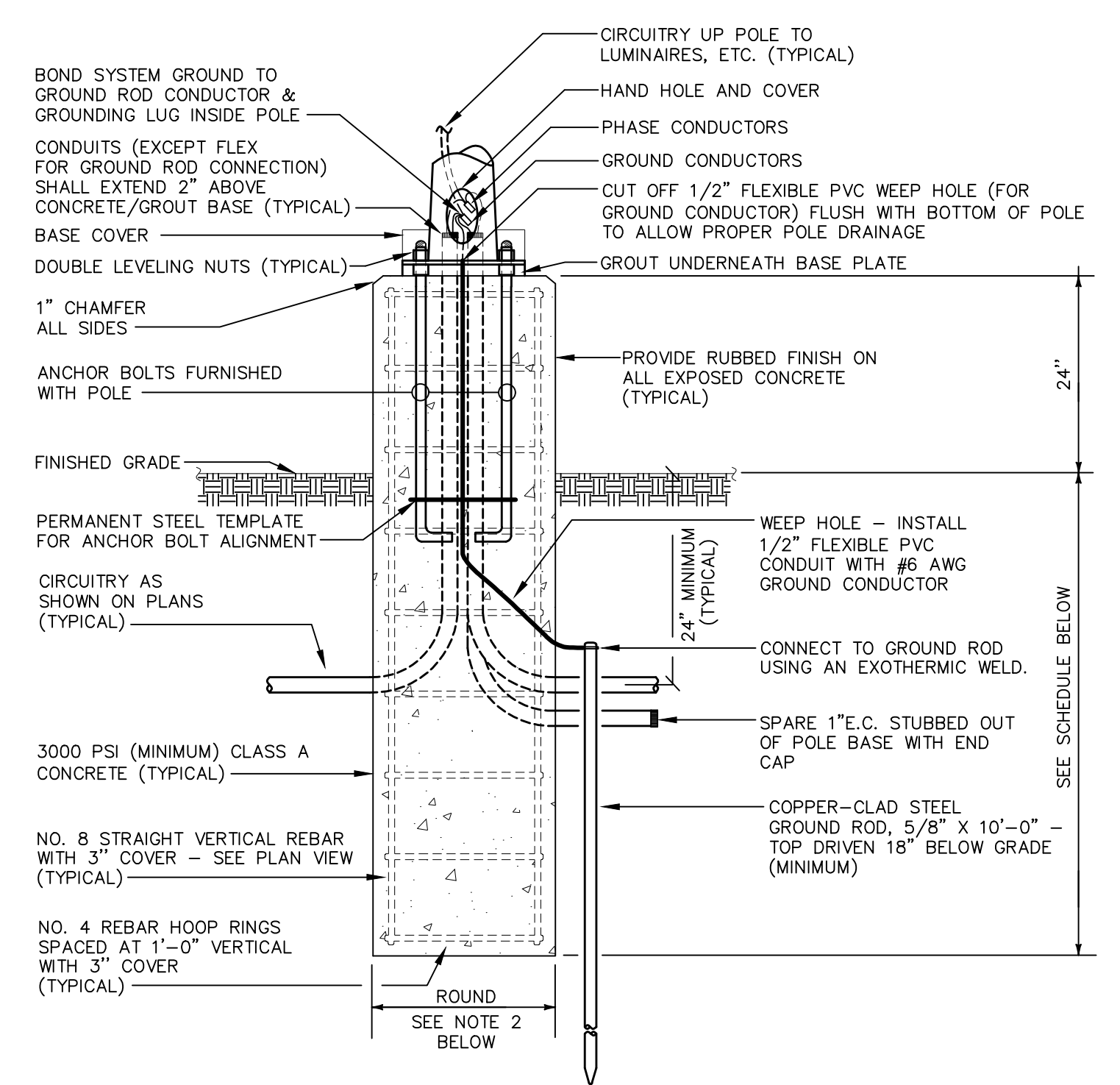
SCALE: 3/16" = 1'-0"



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No.	Date	Description



**PLAN VIEW**

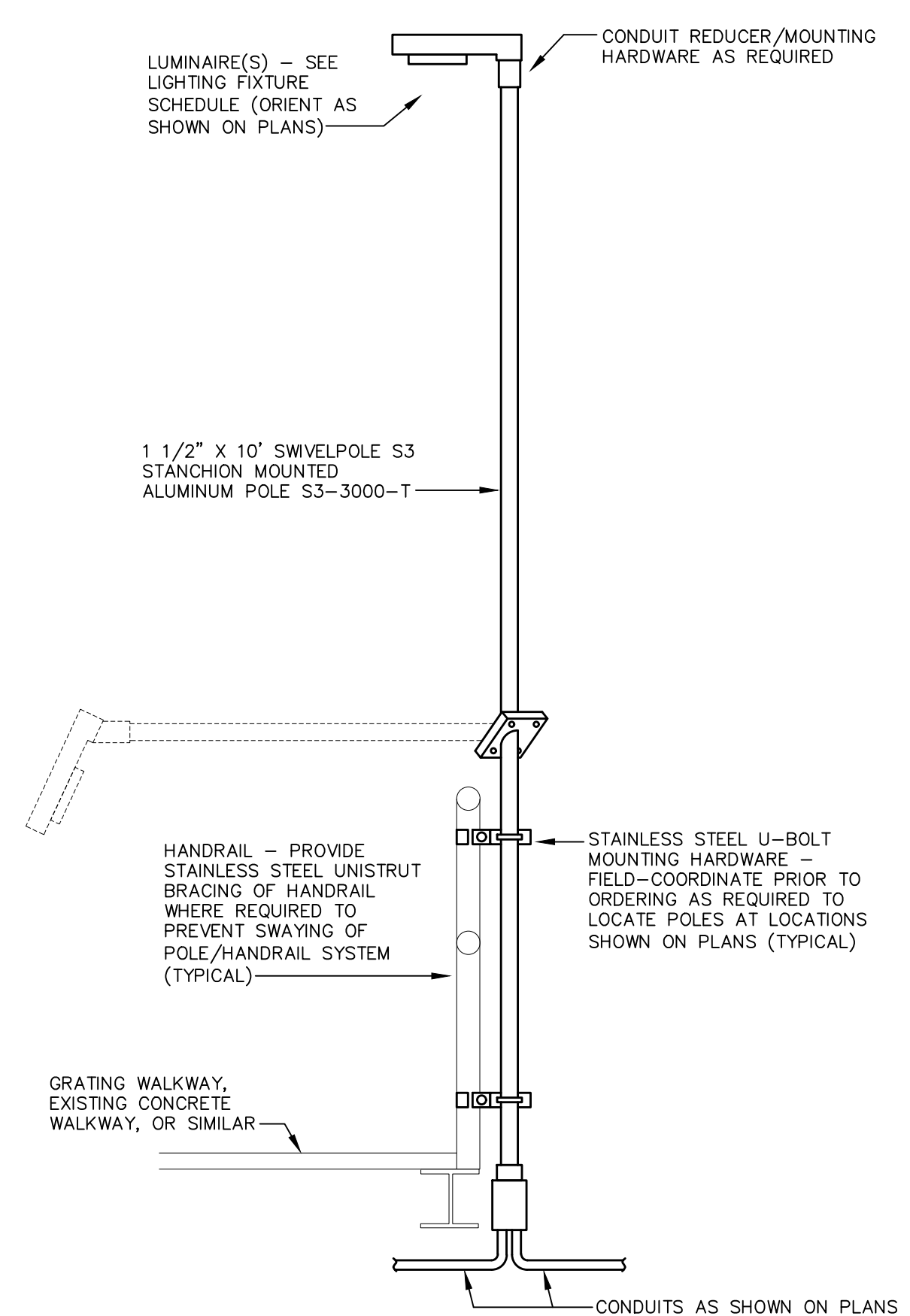


**ELEVATION**

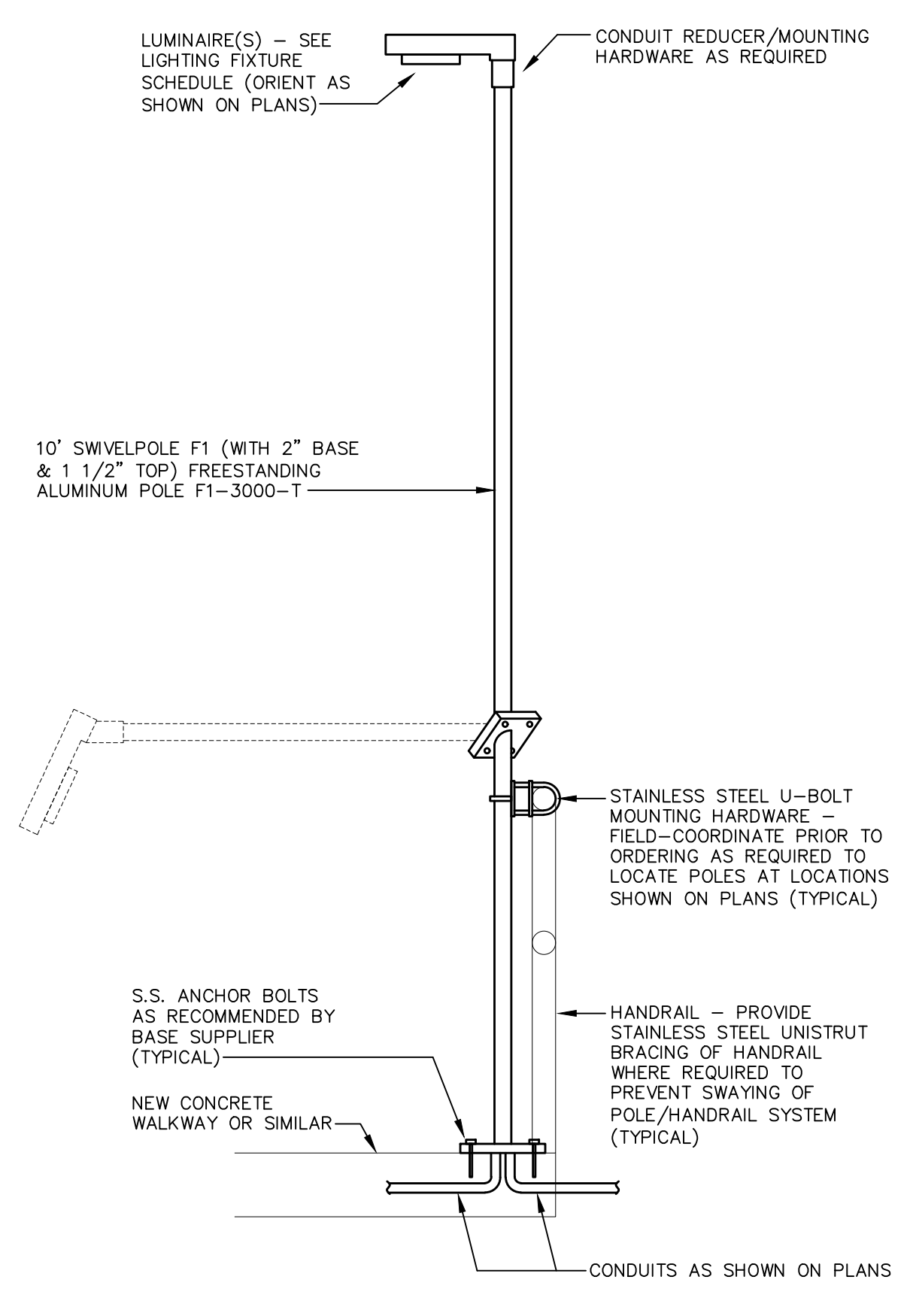
**DETAIL "E-LP1" EXPOSED LIGHT POLE BASE**  
 SCALE : NONE

- DETAIL NOTES**
- THIS CONTRACTOR SHALL CONFIRM SOIL CONDITIONS PRIOR TO BID OR INSTALLATION. IF SOIL CONDITIONS/TYPES ARE DIFFERENT THAN THE SPECIFIC TYPES INDICATED BELOW, OR THE POLE HEIGHTS ARE IN EXCESS OF THOSE LISTED BELOW, OR THE BASIC WIND SPEED FOR THE PROPOSED POLE LOCATION (PER ASCE 7 BASIC WIND SPEED MAPS) IS IN EXCESS OF 100MP, OR THE COMBINED E.P.A. OF ALL LUMINAIRES/ARMS/ACCESSORIES INSTALLED ON A POLE IS IN EXCESS OF 6.5 S.F., THE CONTRACTOR SHALL RETAIN A QUALIFIED STRUCTURAL ENGINEER (LICENCED IN THE STATE OF THE PROJECT) TO PROVIDE A PROJECT-SPECIFIC STRUCTURAL DESIGN FOR THE PROPOSED POLE BASE(S), AND SHALL INCLUDE ALL COSTS (FOR THE DESIGN AND THE REQUIRED POLE BASES) IN THE BID.
  - MINIMUM POLE BASE DIAMETER SHALL BE THE GREATER OF THE FOLLOWING:
    - ANCHOR BOLT CIRCLE DIAMETER PLUS 8" (TO PROVIDE MINIMUM 4" COVER OVER ALL ANCHOR BOLTS).
    - 20" DIAMETER.
    - DIAMETER AS REQUIRED BY SOIL CONDITIONS OR BY POLE SUPPLIER.
  - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES OR OBSTRUCTIONS TO AVOID CONFLICTS PRIOR TO INSTALLATION OF LIGHT POLE BASE(S).
  - POLE SHALL BE RATED TO WITHSTAND THE WIND SPEED SPECIFIED FOR THE SPECIFIC PROJECT SITE LOCATION PER LATEST VERSION OF ASCE 7 BASIC WIND SPEED MAPS OR APPLICABLE LOCAL BUILDING CODE REQUIREMENTS (WHICHEVER IS MORE STRINGENT), WITH 1.3 GUST FACTOR WITH ALL LUMINAIRES & ACCESSORIES INSTALLED.

POLE HEIGHT	MINIMUM BASE DEPTH (BELOW GRADE)			BASE DIAMETER
	(SEE NOTE 1 ABOVE)			
	CLAYEY SOILS (CL, ML, CH, MH)	SANDY SOILS (SW, SP, SM, SC, GM, GC)	GRAVELLY SOILS (GW, GP)	
0 - 15 FT.	6'-0"	5'-0"	4'-6"	SEE NOTE 2 ABOVE
16 - 20 FT.	7'-0"	5'-6"	5'-0"	SEE NOTE 2 ABOVE
21 - 25 FT.	8'-0"	6'-0"	5'-6"	SEE NOTE 2 ABOVE
26 - 30 FT.	8'-6"	7'-0"	6'-0"	SEE NOTE 2 ABOVE
31 - 35 FT.	9'-0"	7'-6"	7'-0"	SEE NOTE 2 ABOVE
36 - 40 FT.	10'-0"	8'-0"	7'-6"	SEE NOTE 2 ABOVE
41 - 45 FT.	10'-6"	8'-6"	8'-0"	SEE NOTE 2 ABOVE
46 - 50 FT.	11'-0"	9'-0"	8'-6"	SEE NOTE 2 ABOVE



(AT GRATING WALKWAYS OR SIMILAR)



(AT NEW CONCRETE WALKWAYS OR SIMILAR)

**DETAIL "E-LP3" SWIVEL POLELIGHT MOUNTING**  
 SCALE : NONE

