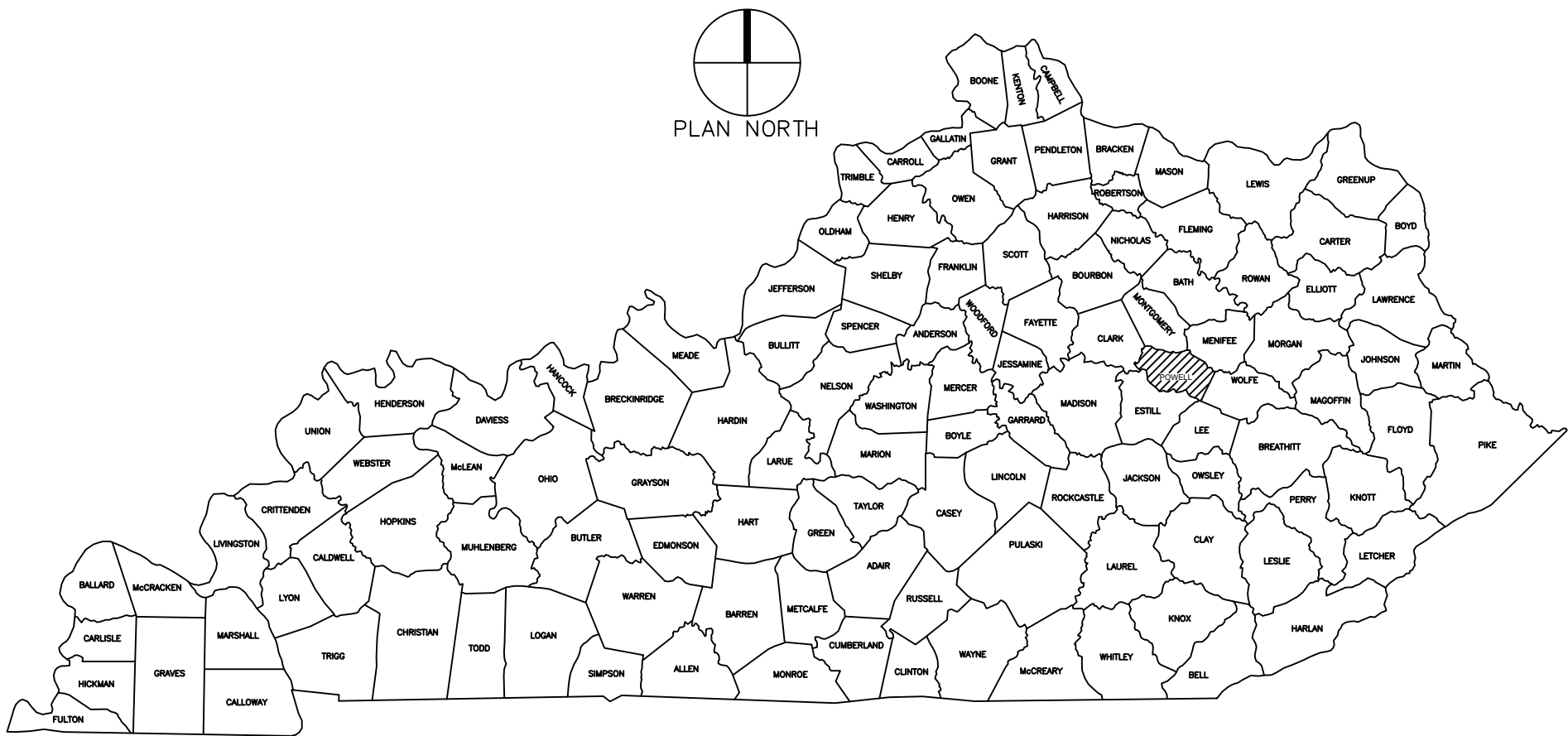


POWELLS VALLEY WATER DISTRICT

SLADE/NADA WASTEWATER FACILITIES

August, 2026



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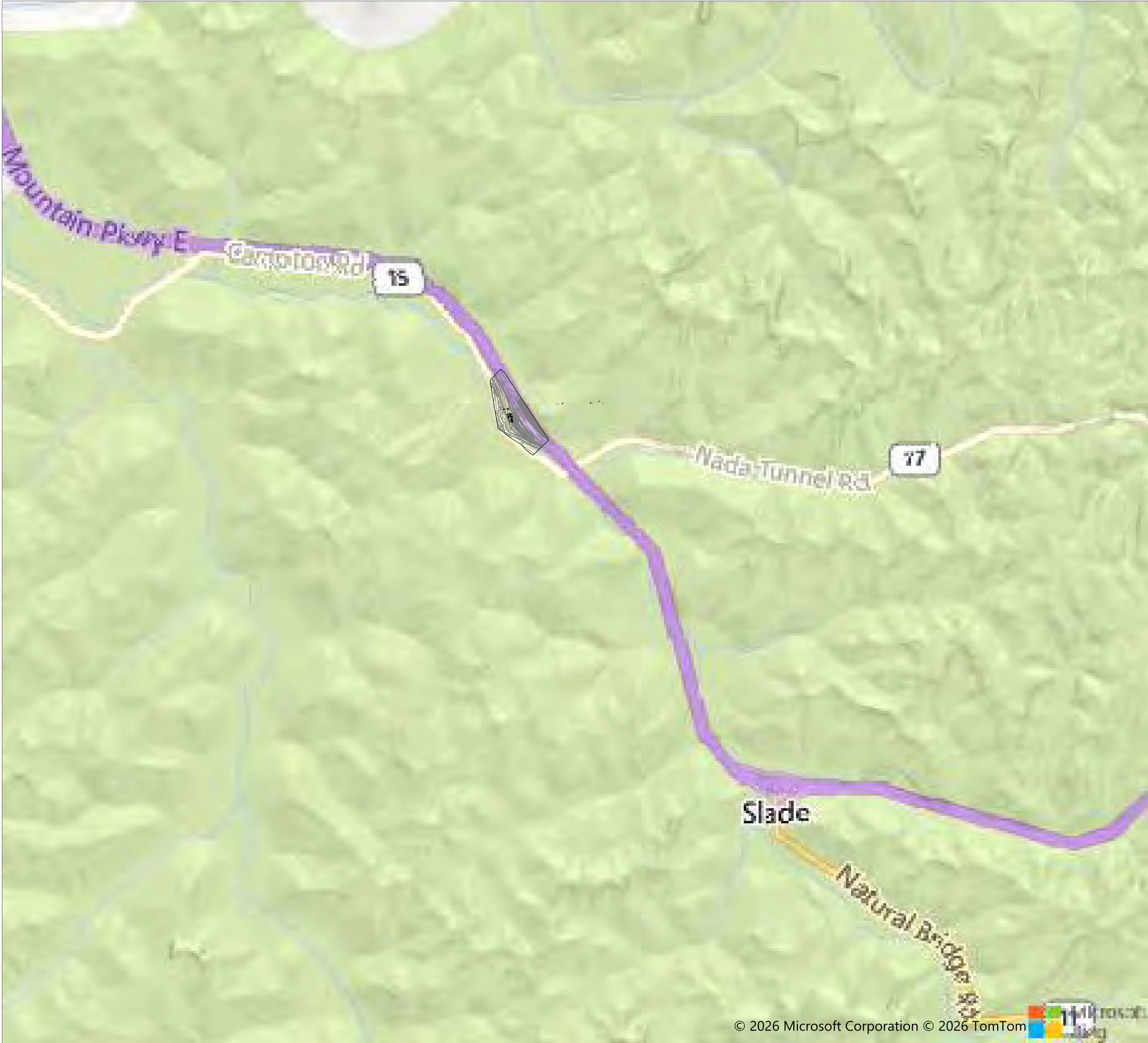
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August, 2026

MSE PROJECT No. 9524-14

SET NO.



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REVIEWED BY	GAR			
DATE	AUGUST 2026			
SCALE		1" = 15'		

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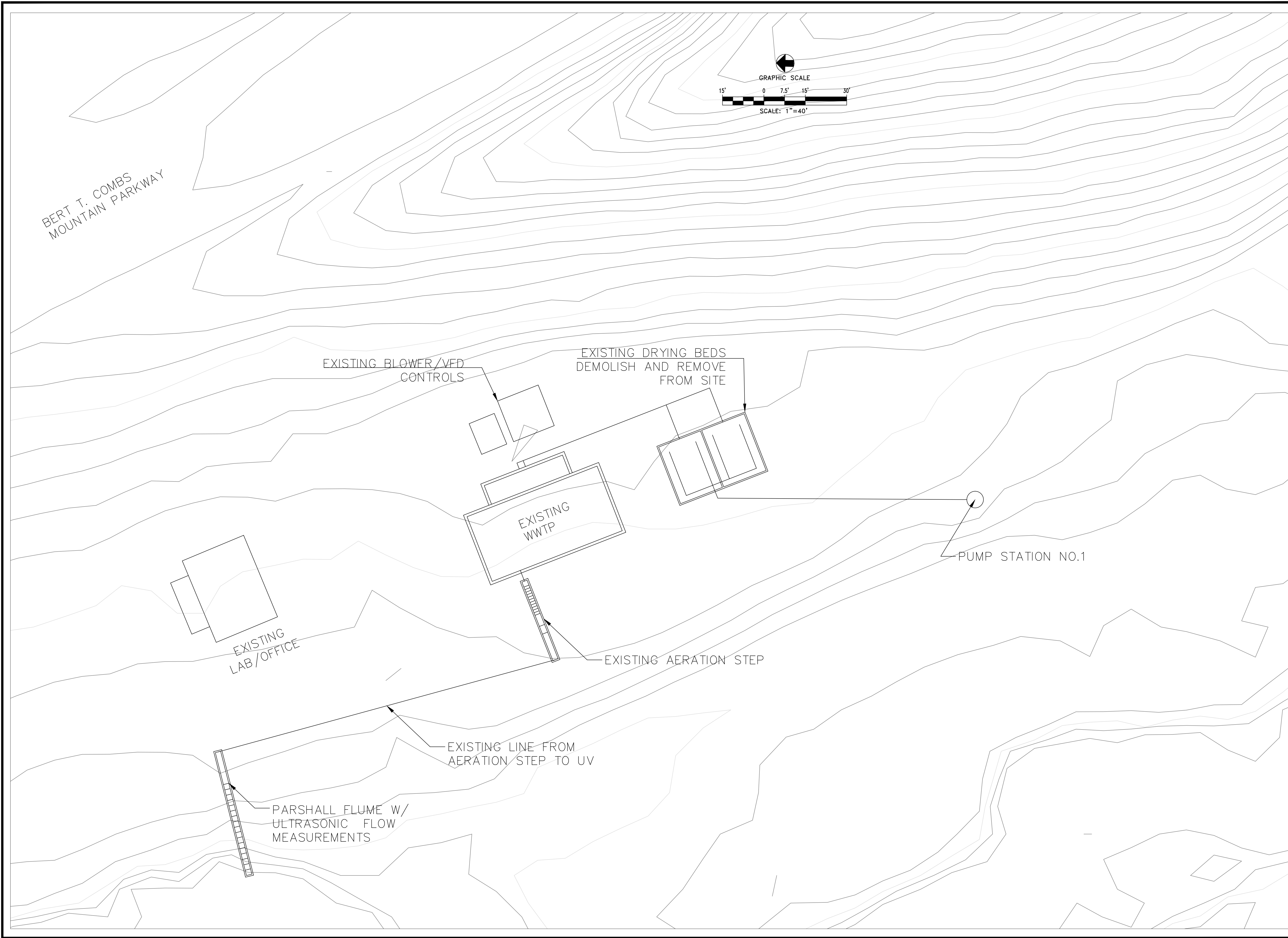
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POWELLS VALLEY WATER DISTRICT

INDEX MAP & GENERAL NOTES

SLADE/NADA

EQ/WWTP



POWELLS VALLEY WATER DISTRICT

EXISTING CONDITIONS

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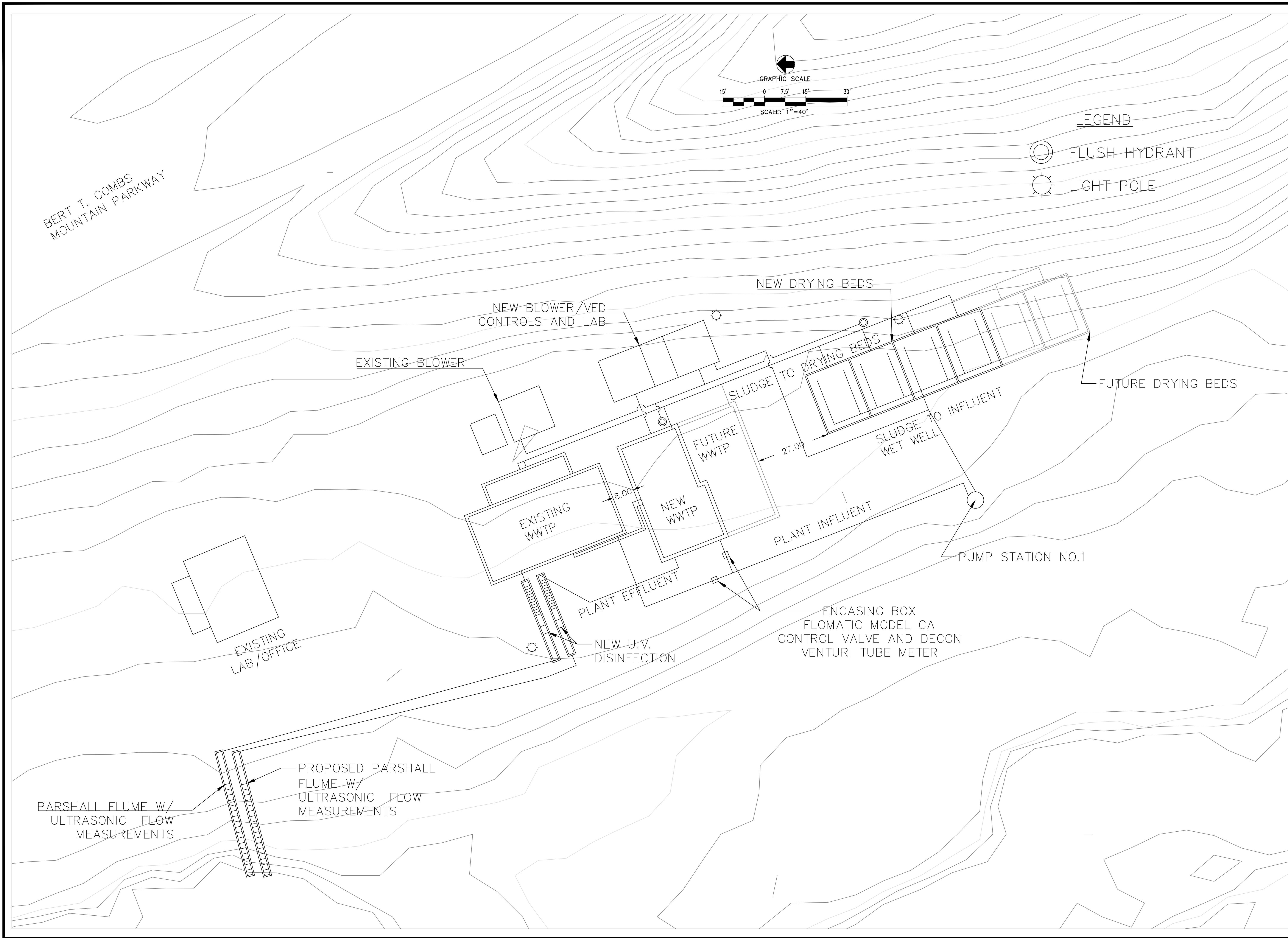
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C-1

SHEET OF



POWELLS VALLEY WATER DISTRICT

SITE PLAN
SLADE/NADA
EQ/WWTP

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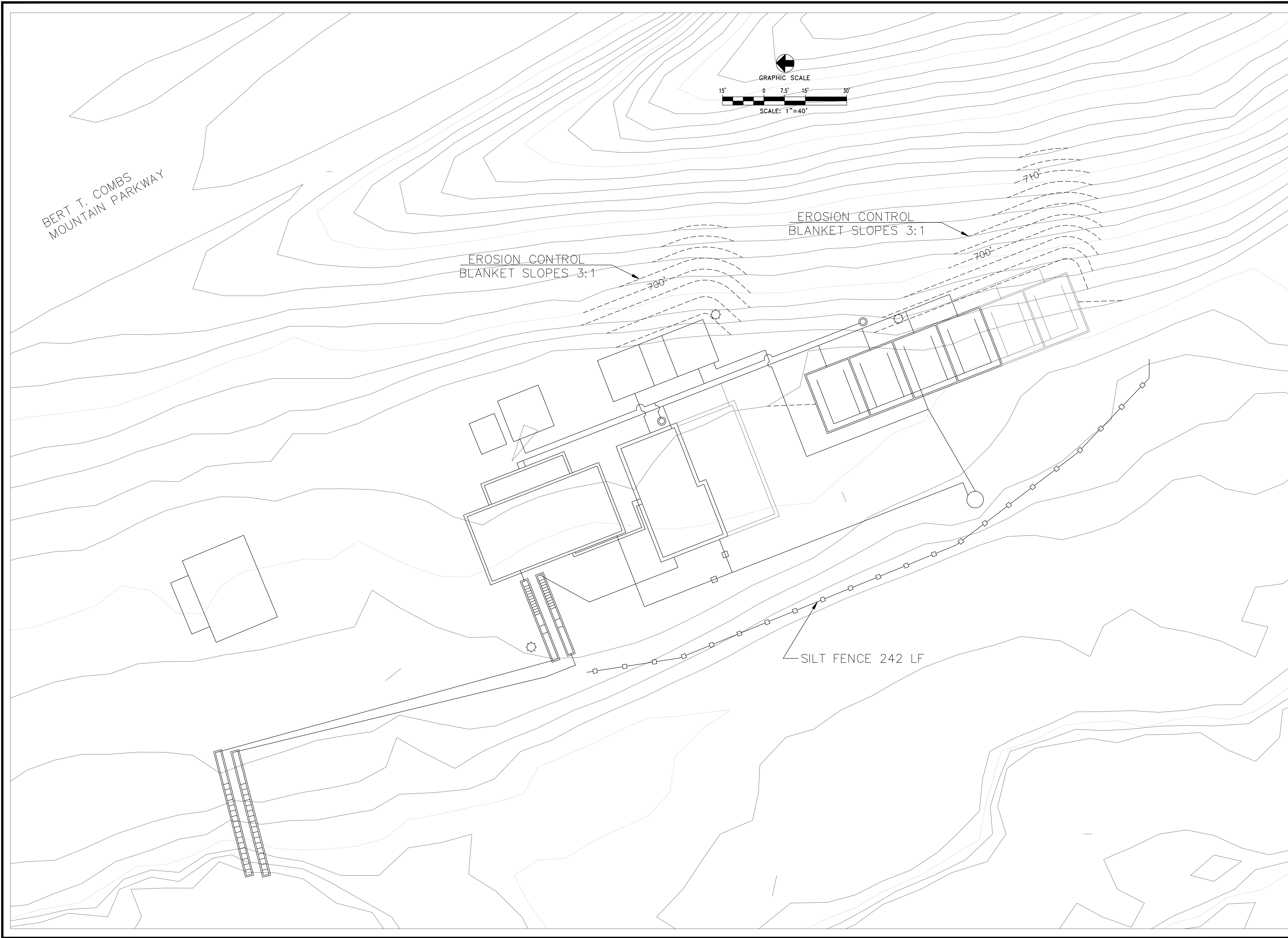
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C-2
SHEET OF



POWELLS VALLEY WATER DISTRICT

GRADING PLAN
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SCALE	AS NOTED				

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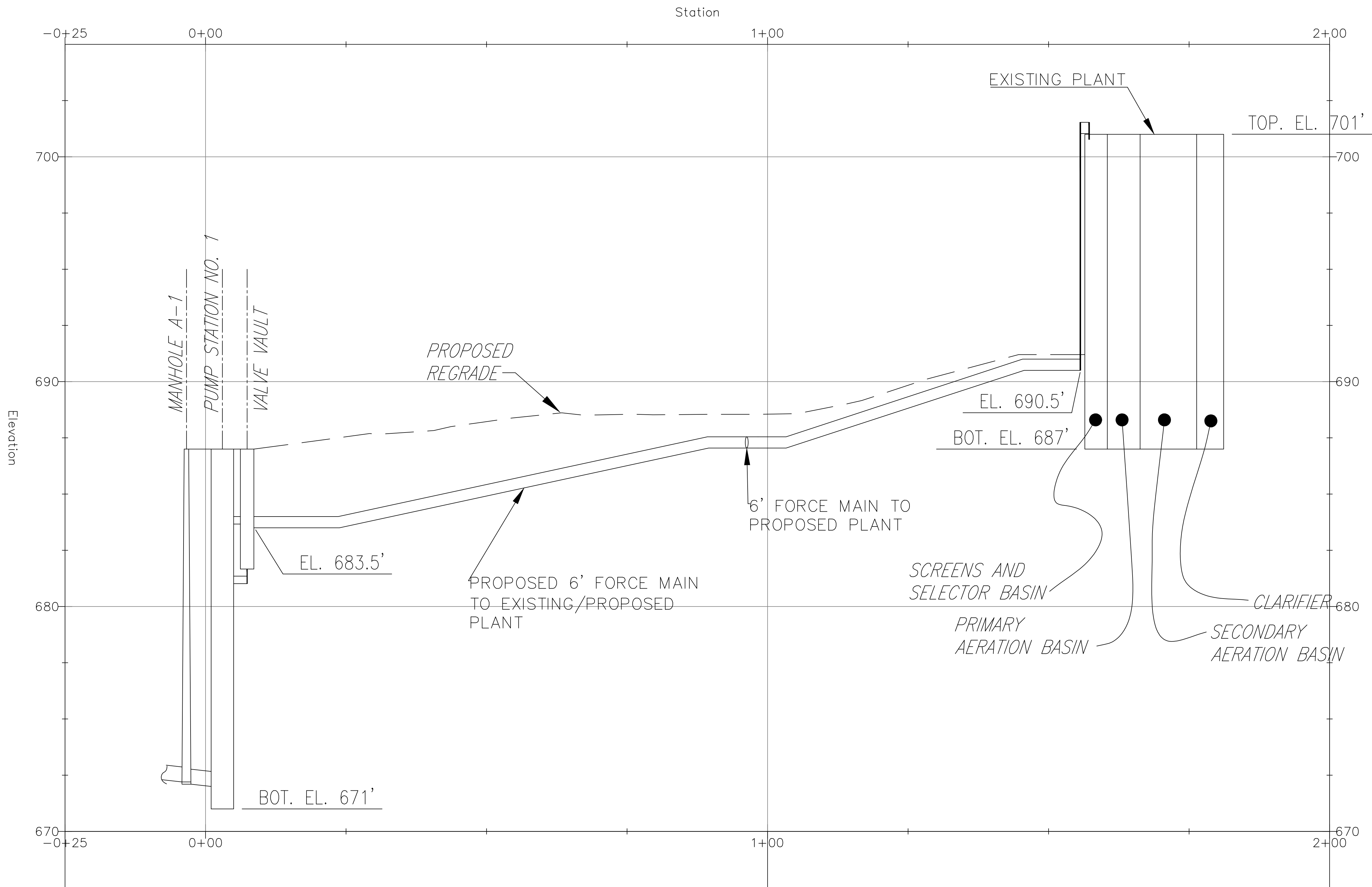
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DRAWING NO.
C-3
SHEET OF

SEWER PROFILE FROM EXISTING PUMP STATION TO EXISTING PLANT



VERTICAL SCALE: 1" = 2.5'
HORIZONTAL SCALE: 1" = 10'

POWELLS VALLEY WATER DISTRICT
SEWER PROFILES
SLADE/NADA
EQWWTP

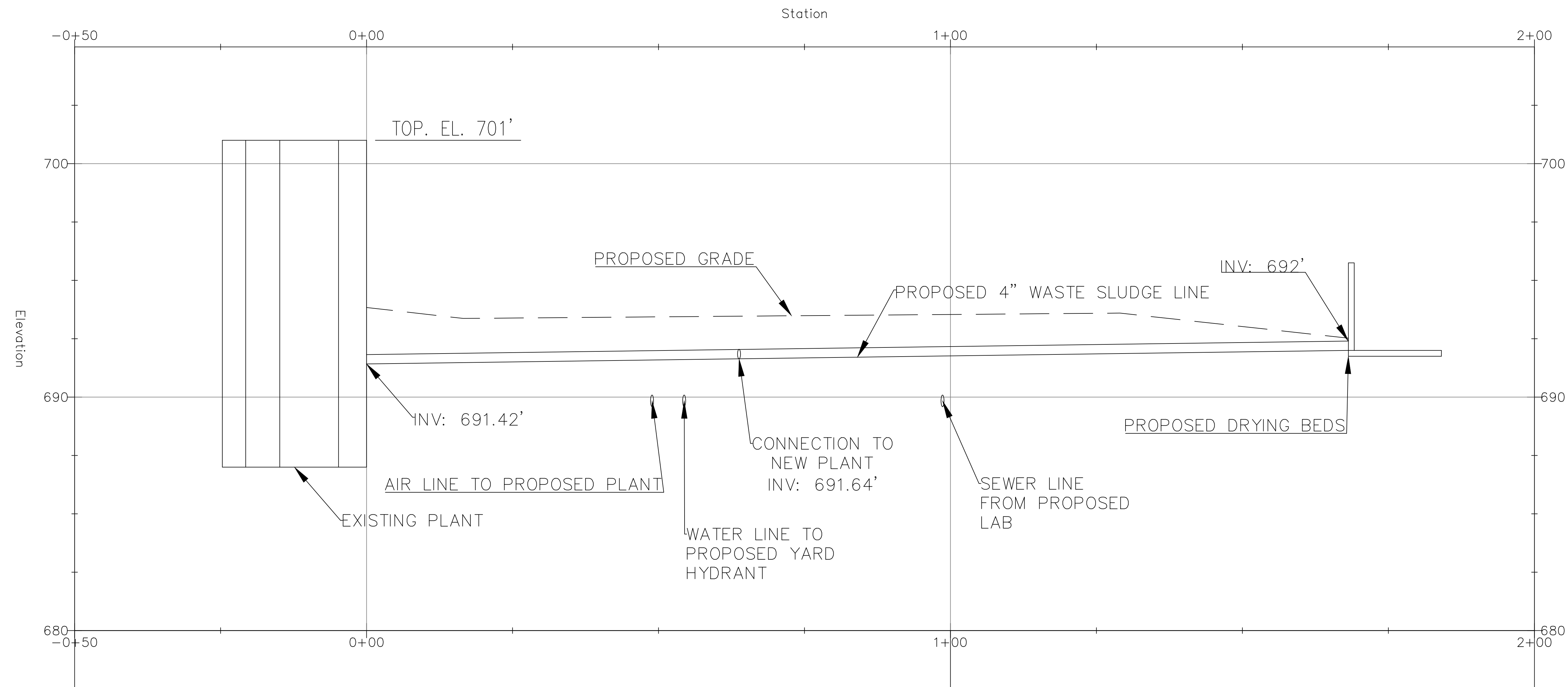
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SEWER PROFILE FROM EXISTING PLANT TO PROPOSED DRYING BEDS



VERTICAL SCALE: 1"= 2.5'
HORIZONTAL SCALE: 1"= 10'

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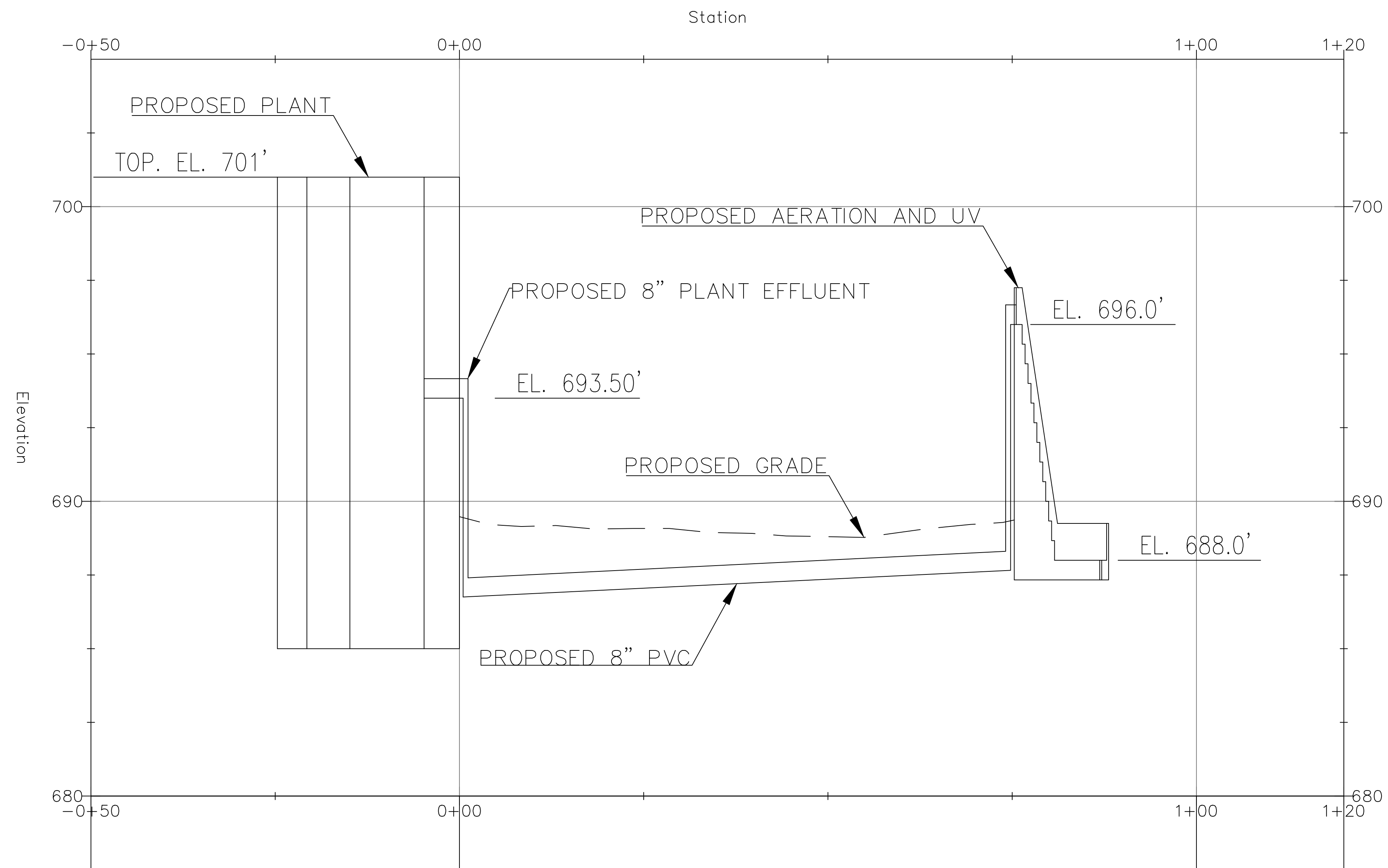
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SEWER PROFILE FROM PROPOSED PLANT TO PROPOSED AERATION AND UV



VERTICAL SCALE: 1"= 2.5'
HORIZONTAL SCALE: 1"= 10'

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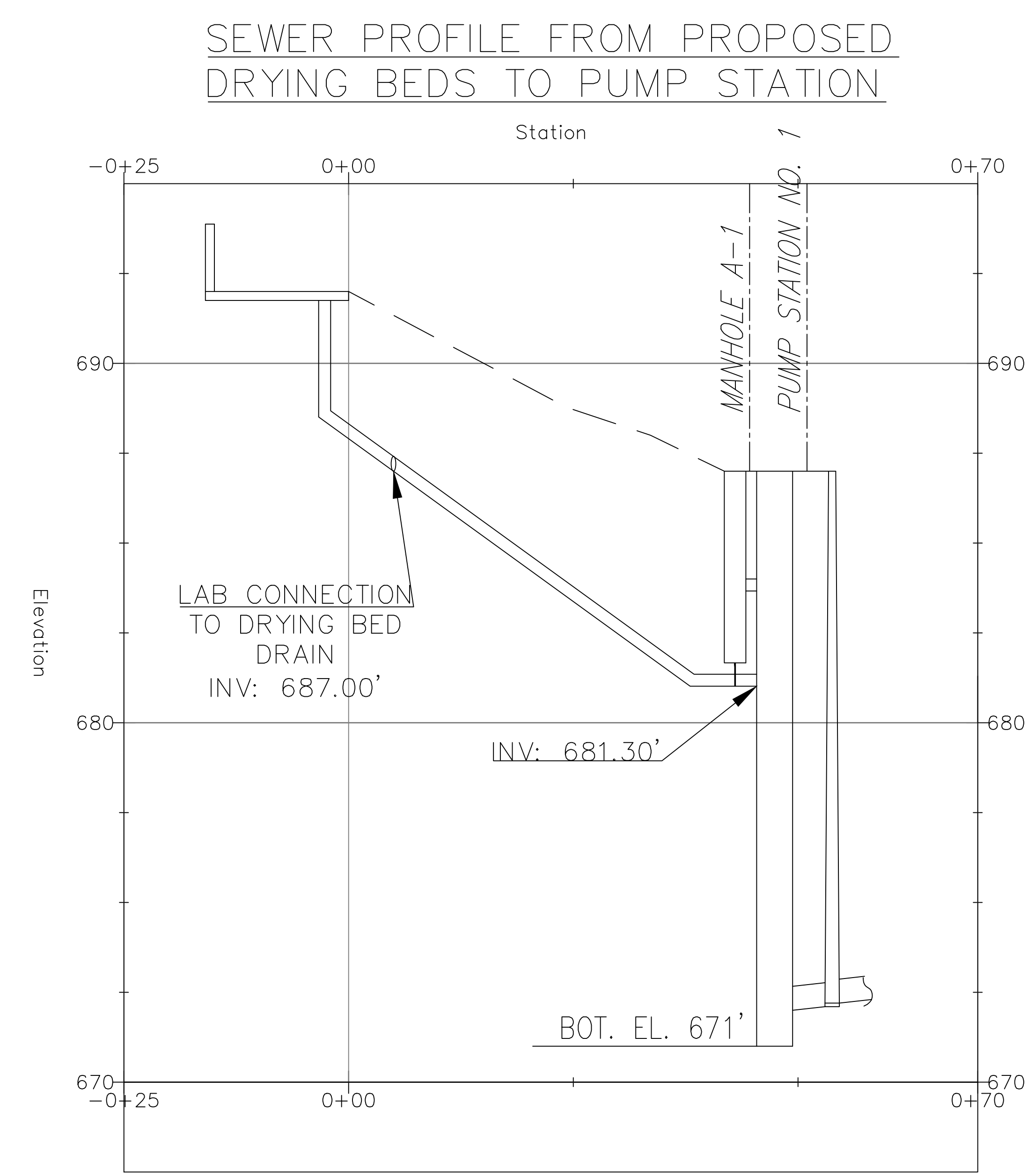
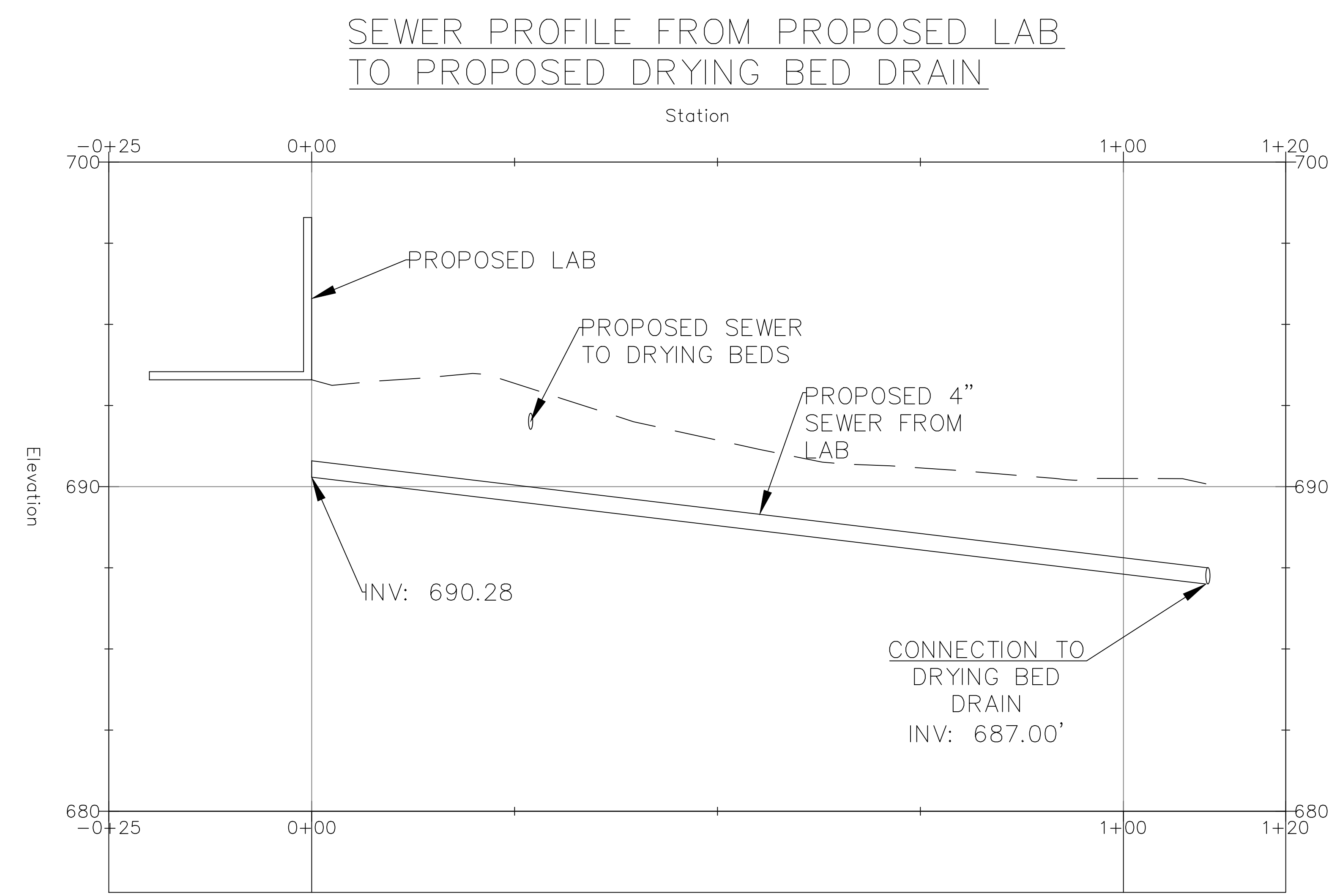
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VERTICAL SCALE: 1"= 2.5'
HORIZONTAL SCALE: 1"= 10'

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POWELLS VALLEY WATER DISTRICT
SEWER PROFILES
SLADE/NADA
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C-7

SHEET OF

THE EROSION CONTROL MEASURES NOTED BELOW ARE MINIMUMS AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA , KENTUCKY DIVISION OF WATER AND/OR LOCAL REQUIREMENTS.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT EROSION ONTO ADJACENT PROPERTY. ANY REMEDIAL MEASURES REQUIRED TO CORRECT DAMAGE CREATED BY EROSION SHALL BE AT THE CONTRACTOR'S EXPENSE.

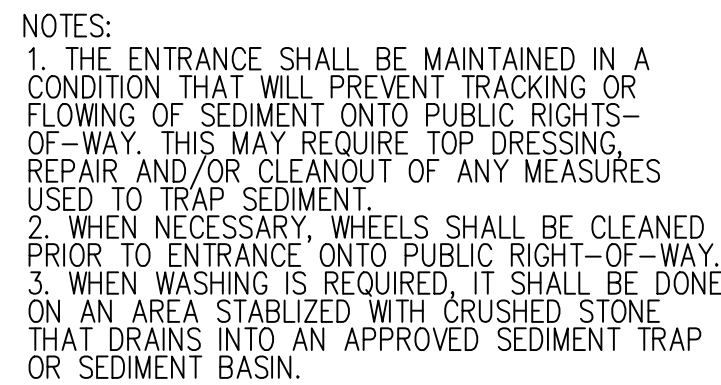
SILT FENCES TO BE CLEANED OUT WHEN THEY BECOME ONE-THIRD FULL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STORM SEWERS CLEANED OF SILT AND DEBRIS AND FUNCTIONING PROPERLY.

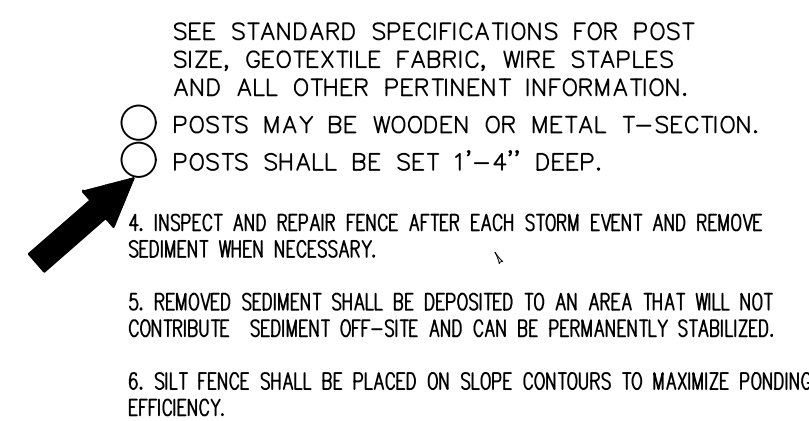
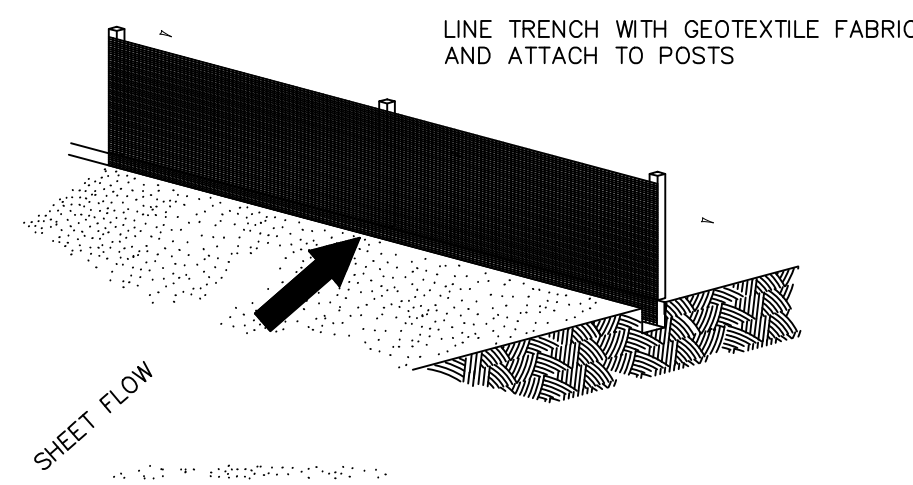
ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL SOIL STABILIZATION HAS BEEN OBTAINED.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT NO MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PART OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED UNLESS THAT ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 21 DAYS.

THE CONTRACTOR SHALL LIMIT ACCESS TO THE SITE TO THE CONSTRUCTION ENTRANCES. THE LOCATION OF THE CONSTRUCTION ENTRANCES SHALL BE APPROVED BY THE ENGINEER AND DESIGNATED ON THE SWPPP. THE CONTRACTOR SHALL INSTALL STONE SURFACE AT THE LOCATION OF THE CONSTRUCTION ENTRANCES. THE ENTRANCES SHALL BE 10 FEET WIDE, 10 FEET HIGH, 10 FEET MIN. 20" WIDE, 50' LONG, 0.5' DEEP AND USE NO 7 STONE OVER GEOTEXTILE FABRIC (SEE DETAILS SHEET). THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND PARKING AREAS FREE FROM MUD, DIRT, DEBRIS, AND ROCK. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING WATER, LIME, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS. THE ENTRANCE SHALL BE MAINTAINED UNTIL THE PERMENT ENTRANCE HAS BEEN CONSTRUCTED.



NTS



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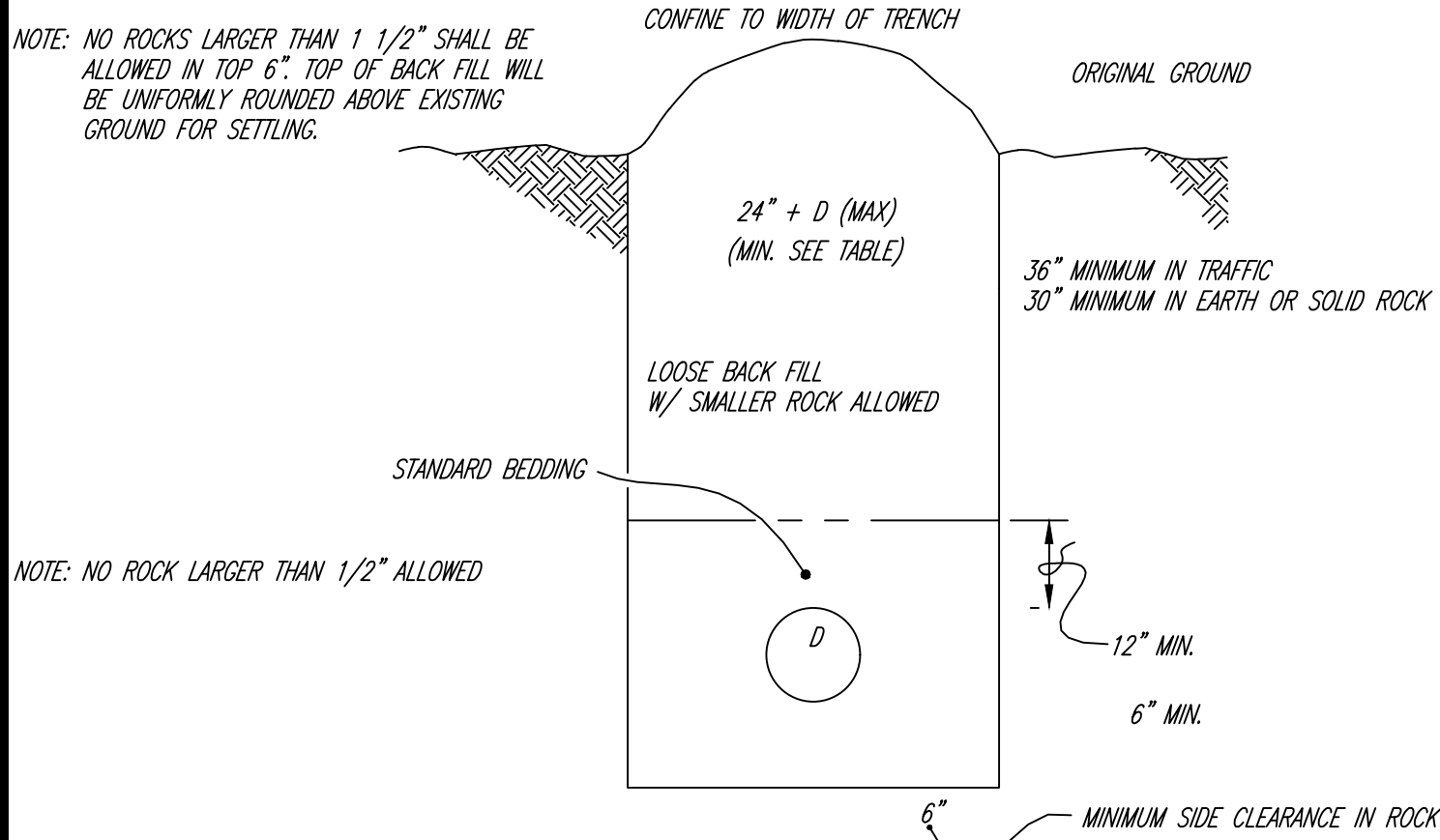
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EC-1

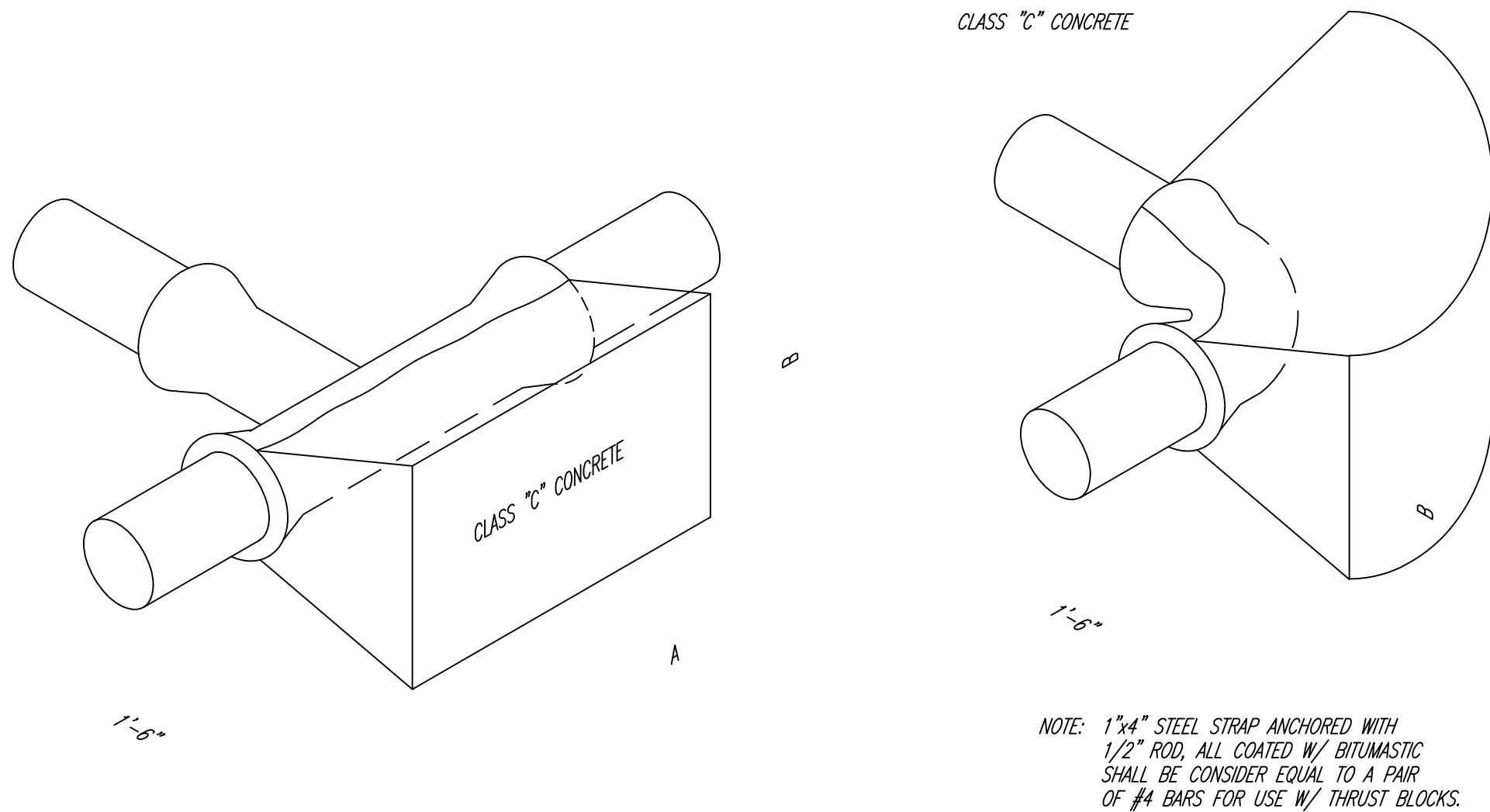
SHEET OF

SOFT-SANDY CLAY SOIL (BEARING STRENGTH = 2,000#/FT. ²)									
PIPE SIZE	BEARING AREA 90° BEND	"B"	"A"	BEARING AREA 45° BEND	"B"	"A"	BEARING AREA TEE, GATE VALVE & DEAD END	"B"	"A"
1 1/2"	0.33 FT ²	12"	4"	0.18 FT ²	8"	4"	0.24 FT ²	9"	4"
2"	0.52 FT ²	12"	7"	0.28 FT ²	12"	4"	0.37 FT ²	12"	5"
2 1/2"	0.75 FT ²	12"	9"	0.41 FT ²	12"	5"	0.53 FT ²	12"	7"
3"	1.12 FT ²	18"	9"	0.61 FT ²	12"	8"	0.79 FT ²	18"	7"
4"	1.84 FT ²	24"	12"	1.00 FT ²	18"	8"	1.30 FT ²	24"	8"
6"	3.96 FT ²	36"	16"	2.14 FT ²	26"	12"	2.80 FT ²	30"	14"
8"	6.70 FT ²	54"	18"	3.63 FT ²	30"	18"	4.74 FT ²	36"	19"
10"	10.00 FT ²	60"	24"	5.41 FT ²	44"	18"	7.07 FT ²	43"	24"
12"	13.69 FT ²	60"	33"	7.41 FT ²	36"	30"	9.68 FT ²	47"	30"
14"	16.35 FT ²	66"	36"	9.35 FT ²	40"	34"	12.20 FT ²	60"	30"
16"	19.55 FT ²	72"	40"	11.35 FT ²	60"	28"	14.77 FT ²	60"	36"

THRUST BLOCKS
(160 P.S.I. DESIGNED)

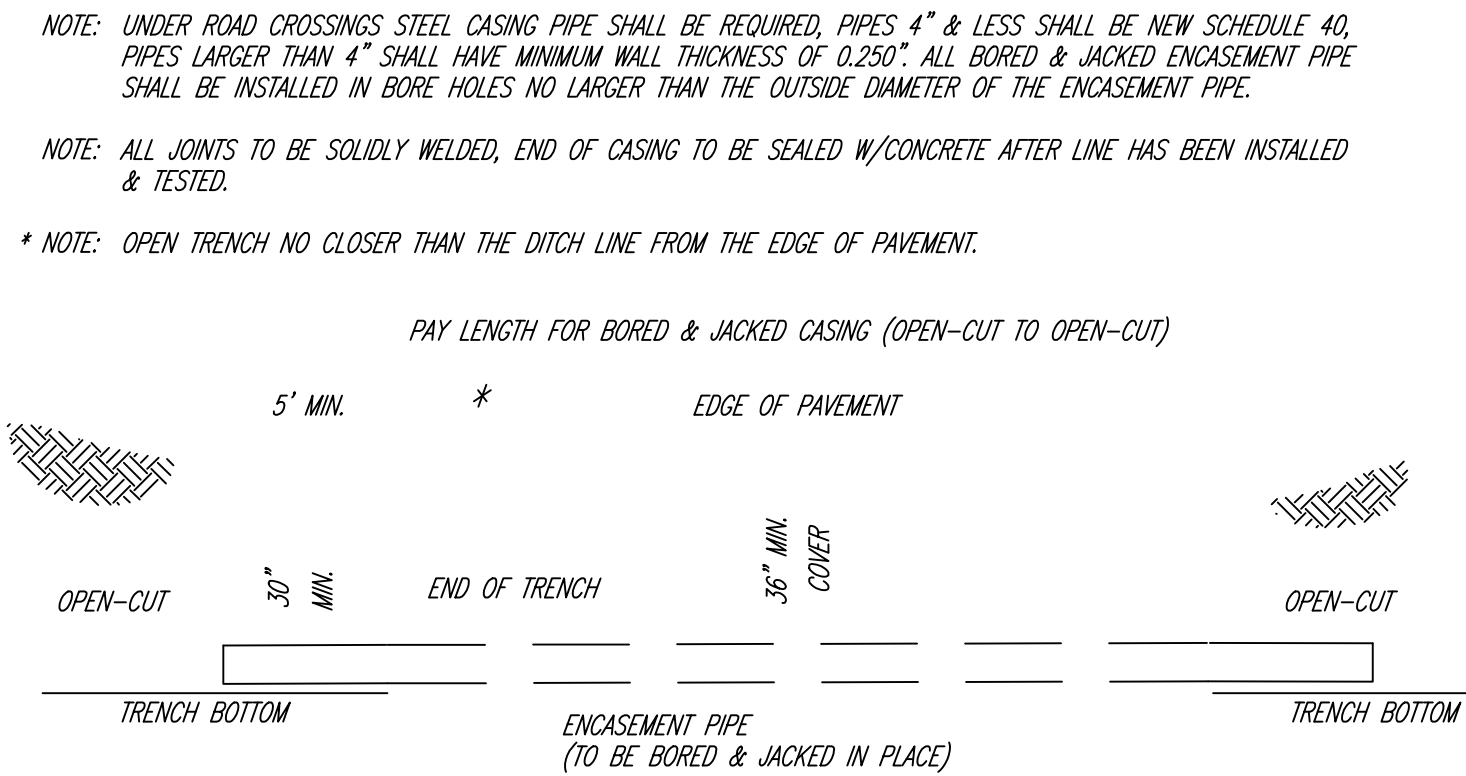


TRENCH WIDTH & DEPTH
N.T.S. (P81-04)

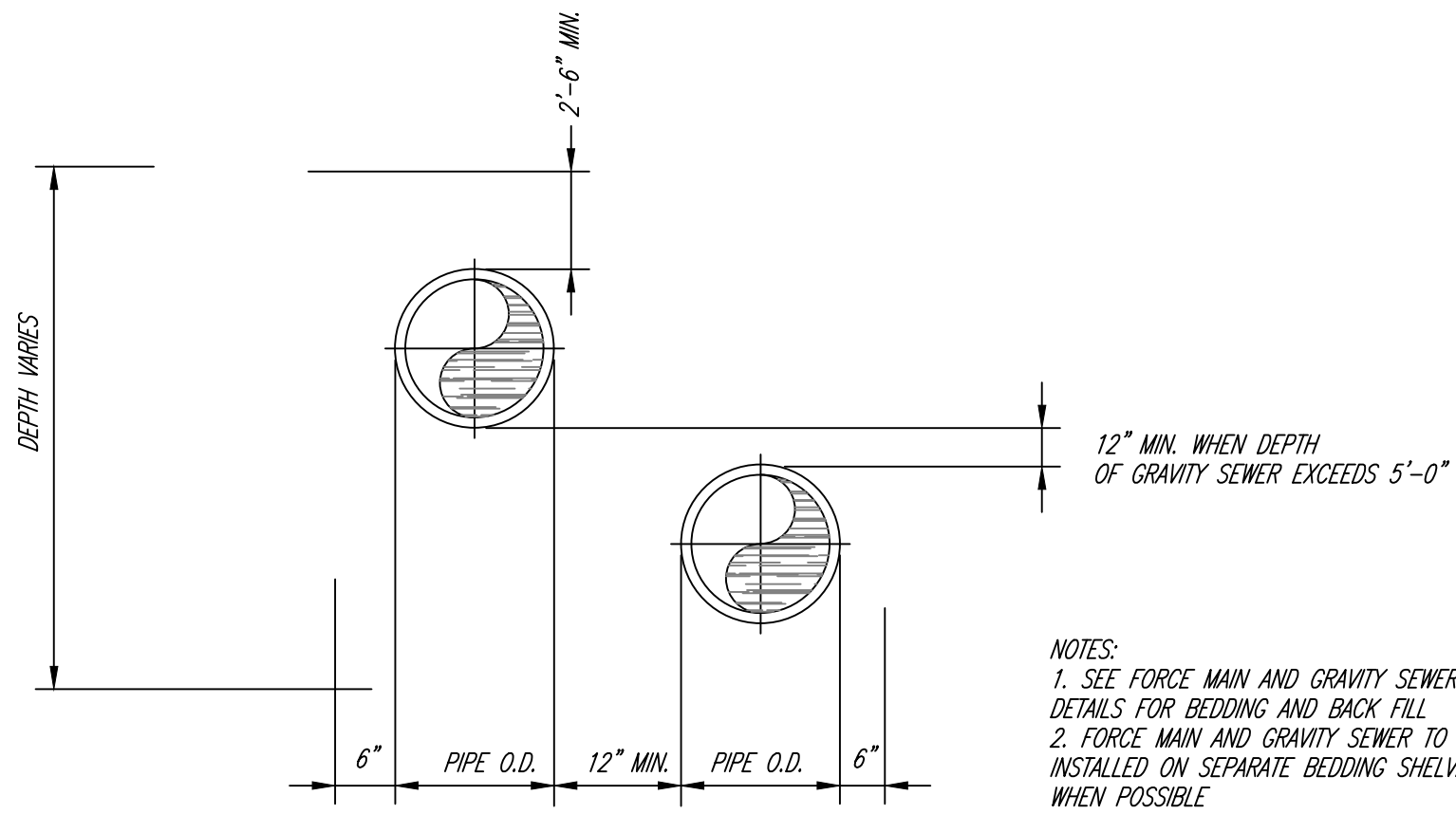
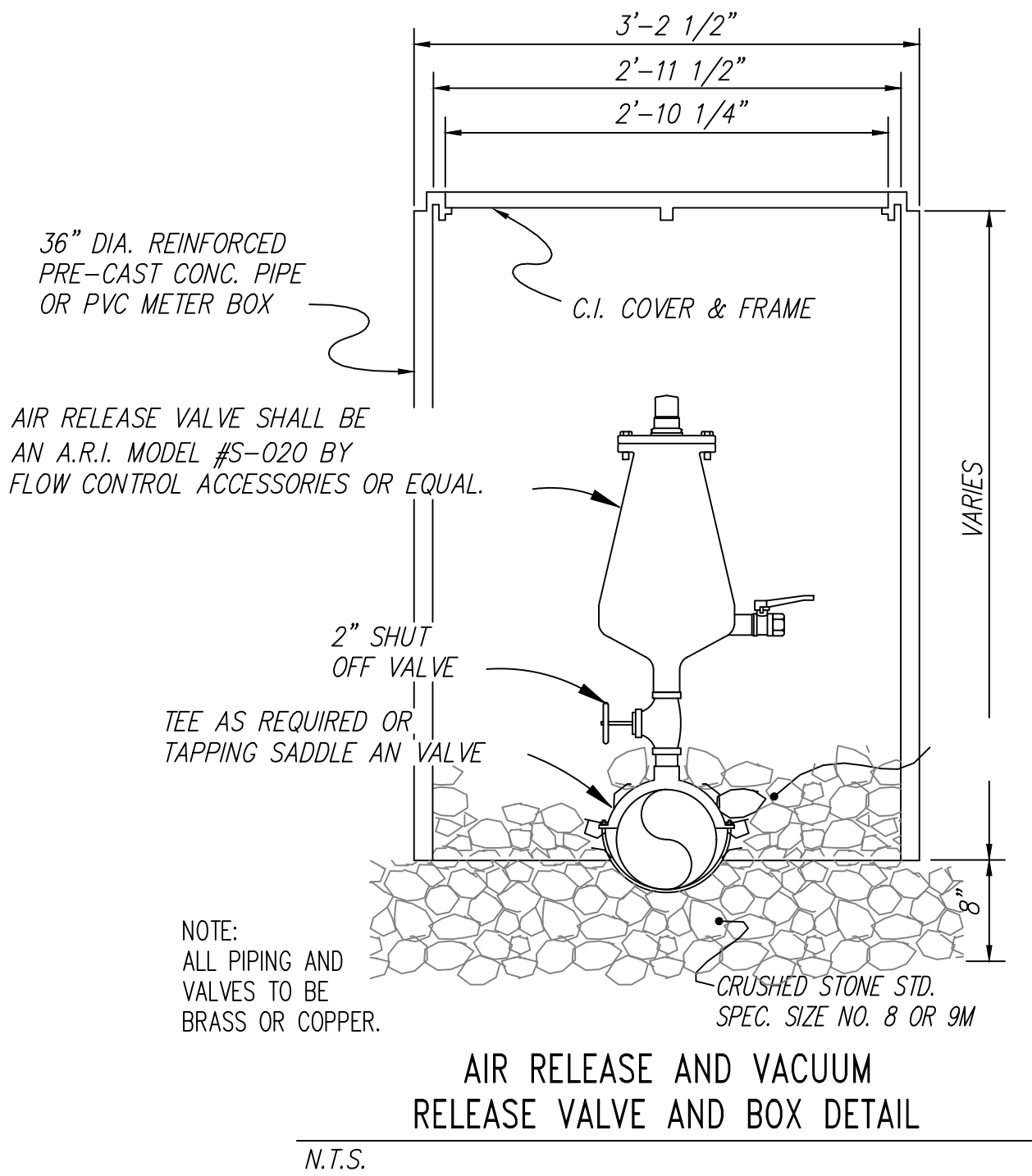
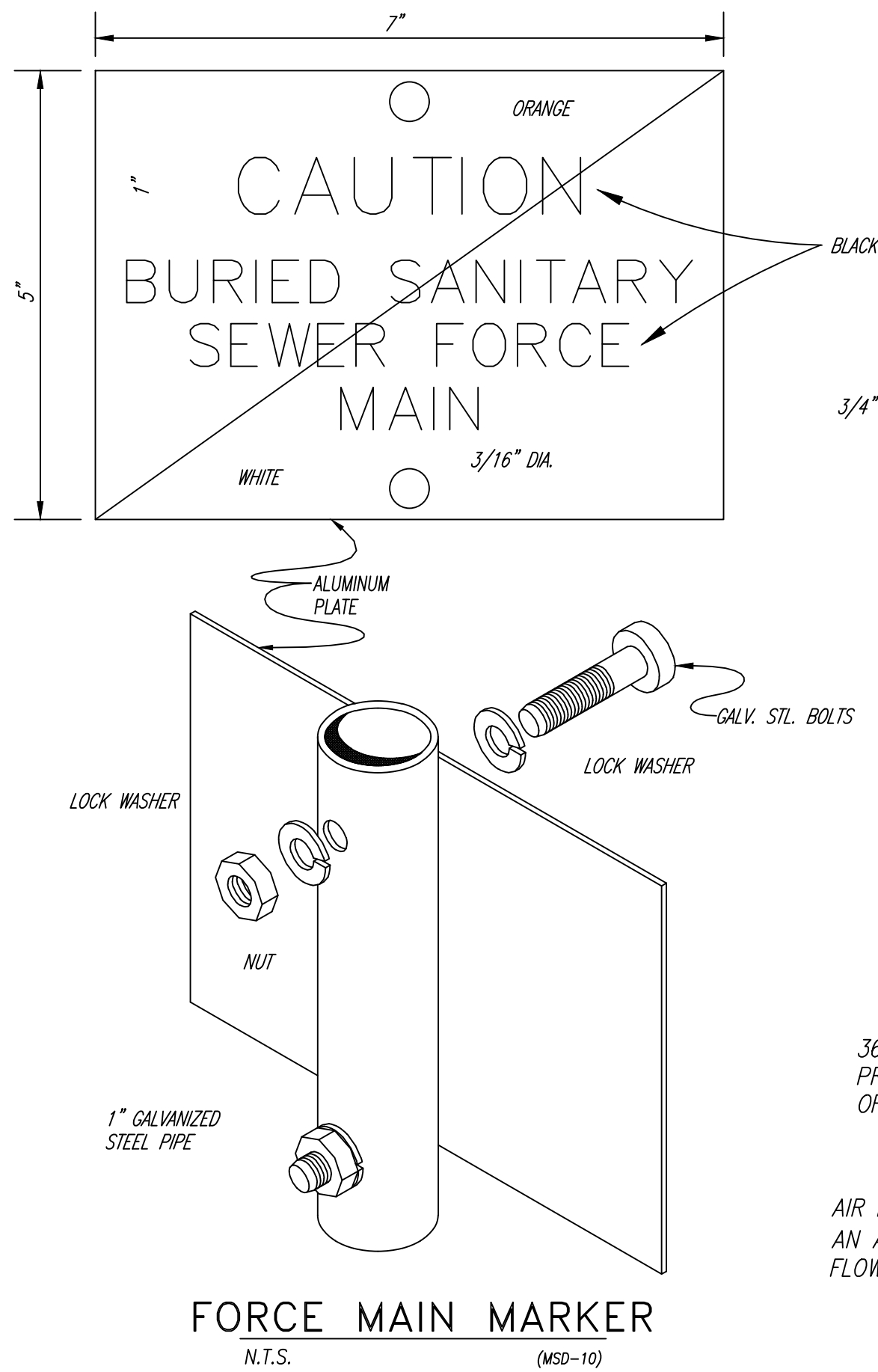


THRUST BLOCK FOR TEE
N.T.S.

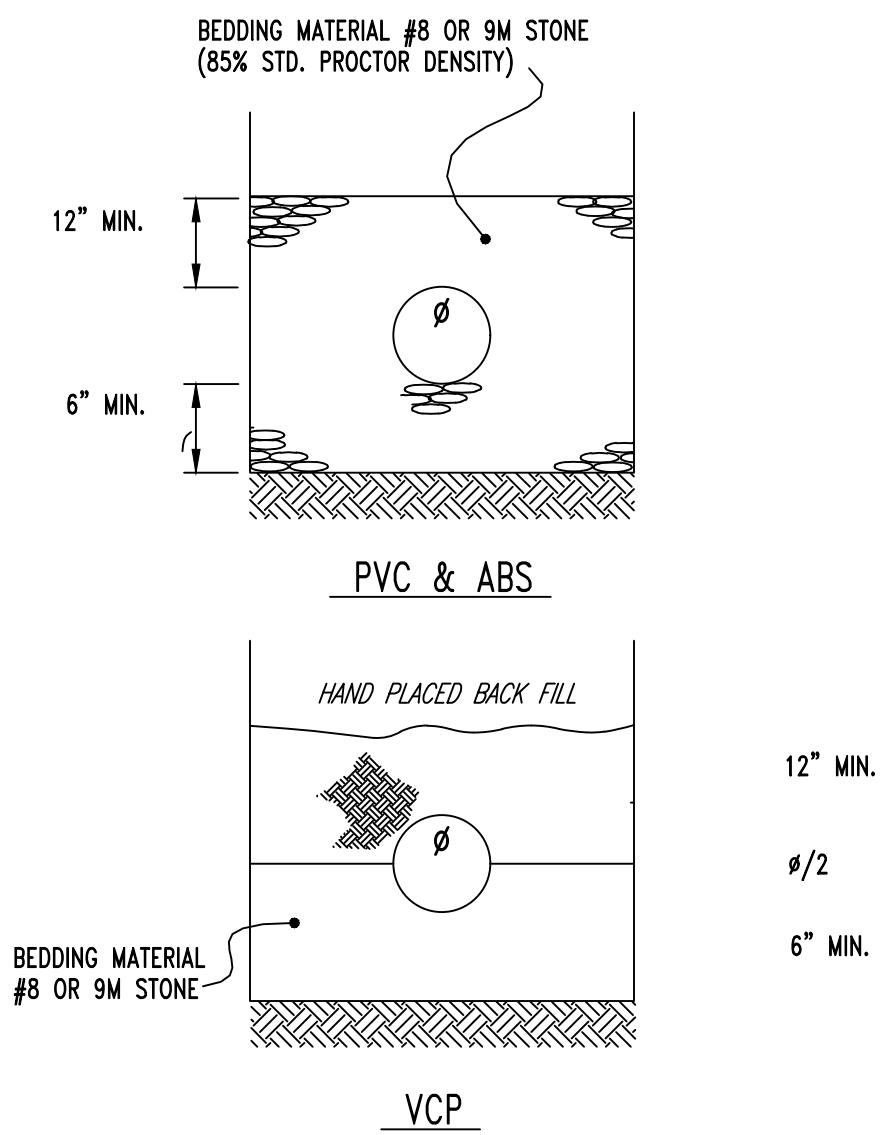
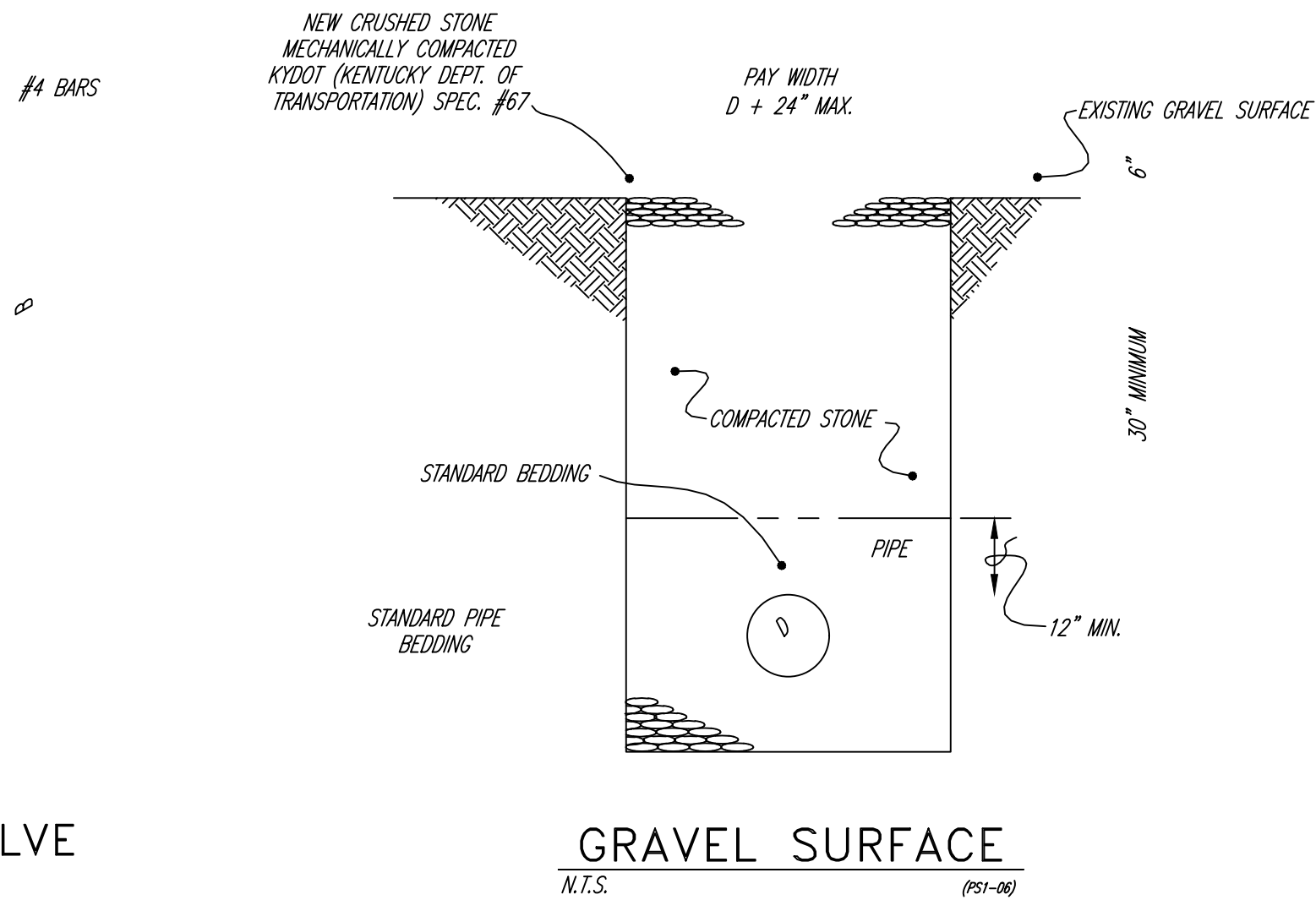
THRUST BLOCK FOR HORIZONTAL 90° BEND
N.T.S.



SECTION VIEW OF ROAD CROSSING
N.T.S.



COMBINED TRENCH
N.T.S.



POWELLS VALLEY WATER DISTRICT
SANITARY SEWER DETAILS
SLADE/NADA
EQ/WWTP

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SIZE	WIDTH	SIZE	WIDTH	SIZE	WIDTH
UP TO 4" PIPE	1'-6"	12" PIPE	2'-6"	18" PIPE	3'-0"
6"	2'-0"	16"	2'-6"	24"	3'-2"
8"	2'-4"	20"	2'-8"	30"	3'-8"

NOTE: NO ROCKS LARGER THAN 1 1/2" SHALL BE ALLOWED IN TOP 6" - TOP OF BACKFILL WILL BE UNIFORMLY ROUNDED ABOVE EXISTING GROUND FOR SETTLING.

NOTE: BACKFILL SHALL BE HAND PLACED BUT MAY BE MECHANICALLY PLACED IF APPROVED BY ENGINEER & SOLIDLY TAMPED BY HAND OR APPROVED MECHANICAL METHODS (MAY BE "WELDED-IN" WITH PVC PIPE) AROUND THE PIPE & TO A POINT 6" HIGHER THAN TOP OF THE PIPE & 12" HIGHER FOR A.C. PIPE. THE REMAINDER OF BACKFILL SHALL CONTAIN NO ROCKS LARGER THAN 18".

COMMUNICATION CONDUIT BY O.C.C.
NOTE: NO ROCK LARGER THAN 1/2" ALLOWED

STANDARD BEDDING (SEE STANDARD BEDDING TABLE) FOR PVC PIPE MAY BE COMPACTED IN PLACE BY "WALKING-IN" TIRELY GRADED SELECT MATERIAL WHERE TRENCHING EQUIPMENT LEAVES SUITABLE BEDDING. SHOVELING OF ADDITIONAL BEDDING SHALL NOT BE REQUIRED. THE PIPE BARREL SHALL BE UNIFORMLY SUPPORTED FOR ITS FULL LENGTH.

STANDARD TRENCH DETAIL

N.T.S. (N61-01)

NOTE: AC PIPE CROSSINGS SUBSTITUTE BANK RUN SAND, IF NOT ENCASED, FOR SPEC. #78 STONE. ALL OTHER PIPE MATERIALS USE STONE.

NEW CRUSHED STONE MECHANICALLY COMPACTED K'YDOT (ASTM D1557) SPEC. #78

MECHANICALLY TAMPED EARTH BACKFILL IN LAYERS NOT TO EXCEED 4". IF REFILL MATERIAL CANNOT BE CONSOLIDATED WITHOUT KIDS, THEN CRUSHED STONE SHALL BE USED UP TO SURFACE AT NO EXTRA COST.

STANDARD PIPE BEDDING

GRAVEL SURFACE

N.T.S. (N61-01)

NOTE: FOR BOTH OPPOSITE SIDE & SAME SIDE SERVICES IN HIGH PRESSURE AREA WHERE MAINLINE PIPE EXCEEDS CLASS 180, THE SERVICE LINE SHALL BE CONSTRUCTED OF PIPE OF THE SAME CLASS AS THE MAINLINE FROM THE MAINLINE TAP TO THE PRESSURE REGULATOR.

NOTE: ENGINEER SHALL VERIFY ALL BORING LENGTHS & LOCATIONS IN FIELD BEFORE BORING BEGINS. PAYMENT LENGTHS FOR BORINGS W/O CUT CASING TO BE FROM 6' OF DITCH TO Q. OF DITCH

NOTE: OPEN TRENCH NO CLOSER THAN DITCH LINE FROM THE EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER

NOTE: METER BOXES SHALL BE A MIN. OF 36" DEEP & 15" # & SHALL BE EITHER CAST IRON/CONCRETE, CONCRETE PIPE, OR VITRIFIED CLAY PIPE. THE COVERS FOR 15" # PIPE SHALL BE CAST IRON 11 1/2" # & 4" DEEP, STAMPED WITH THE WORD "WATER METER" FORD NO. 31 OR EQUAL.

NOTE: 2" MAX OUTLET PIPE UNLESS APPROVED BY ENGINEER OR ON PLANS. ALL INLET SERVICE LINE OVER 4" OS ADDITIONAL PAY ITEM FOR SAME SIDE SETTINGS.

SERVICE LINE CONNECTORS ARE TO BE MADE W/COMPRESSION FITTINGS ONLY.

SERVICE CLAMPS TO BE MUELLER BRONZE SERVICE CLAMPS FOR PLASTIC PIPE W/SLIDON BRONZE TIGHTING SCREWS OR APPROVED EQUAL.

NOTE: METER BOXES TO BE OVAL TYPE W/REINFORCED CONCRETE LID & METAL DOOR

MIN. DEPTH OF 36" IN EARTH, 30" IN ROCK

MINIMUM DEPTHS WHEN 5" OR MORE FROM BOX 30" IN EARTH OR ROCK 36" IN TRAFFIC AREAS

MAINLINE MAY BE TAPPED WITHIN 45° ARC TO FACILITATE CONSTRUCTION

3/4" POLYETHYLENE PVC OR TYPE "K" COPPER WATER SERVICE PIPE

FILL AROUND BOXES TO BE WELL COMPACTED

5/8" POLYETHYLENE OR TYPE "K" COPPER WATER SERVICE PIPE

PLUG & ADAPTER

2" OUTLET LINE

STANDARD METER SETTING

N.T.S. (N61-01)

SURFACE RESTORATION

(N61-10)

NOTE: WHERE SEPARATE BID ITEMS ARE ESTABLISHED FOR PAVING REPLACEMENT, QUANTITIES SHALL BE DETERMINED AS FOLLOWS: STONE USED FOR PAVEMENT REPLACEMENT TO BE PAID FOR BY TON FOR WEIGHT OF MATERIAL REQUIRED TO FIT THE DIMENSIONS SHOWN IN THESE DETAILS. UNIT WEIGHT = 110#/SQ.YD. PER INCH OF DEPTH.

BITUMINOUS SURFACING OF ALL TYPES PAID FOR ON THE BASIS OF SQUARE YARDAGE OF 2" THICK PAVING REQUIRED TO FIT DIMENSIONS SHOWN IN THE DETAILS. ADJUST THE ACTUAL DEPTH REQUIRED TO MATCH EXISTING PAVING. CONCRETE SURFACING EXCEPT DRIVEWAYS & SIDEWALKS, PAID FOR ON BASIS OF SQUARE YARDAGE OF 6" THICK PAVING REQUIRED TO FIT DIMENSIONS SHOWN IN DETAILS. ADJUST TO ACTUAL DEPTH REQUIRED.

BITUMINOUS SURFACE TO MATCH EXISTING SURFACE

MECHANICALLY TAMPED K'YDOT SPEC. #78 IN 4" LAYERS

NOTE: PRICE FOR STONE SHALL BE INCLUDED IN THE PRICE FOR PAVEMENT REPLACEMENT.

BEDDING SHALL BE K'YDOT SPEC. #78 EXTEND 3" BEYOND EACH SHOULDER

MECHANICALLY TAMPED CRUSHED STONE IN LAYERS NOT TO EXCEED 4". CRUSHED STONE SHALL BE USED UP TO SHOULDER

BITUMINOUS LIGHT-DUTY SURFACE 2" OR LESS

N.T.S. (N61-01)

PIPE	BEDDING (REQ'D NO EXTRA PAYMENT)
PVC (4" AND SMALLER), COPPER, GALVANIZED	EARTH TRENCH BOTTOM (LEVELLED)
PVC (ABOVE 4"), ALL MUNICIPAL PVY	COMPACTED EARTH BACKFILL
C.I. AND D.I. (LESS THAN 4")	COMPACTED EARTH BACKFILL
C.I. AND D.I. (4" DIA. AND ABOVE)	COMPACTED CRUSHED STONE BACKFILL
ASBESTOS-CEMENT (ABOVE 4")	COMPACTED BANK RUN SAND

STANDARD BEDDING TABLE

(N61-01)

NOTE: BOXES IN GRASS AREAS SHALL BE NO HIGHER THAN 1/2" ABOVE GROUND & NO LONGER THAN FLUSH. BOXES IN CONCRETE OR PAVED AREAS SHALL BE FLUSH. IN AREAS TO BE SODDED, THE TOP OF BOX SHALL BE 2" ABOVE GRADE.

NOTE: CHECK VALVES TO BE INSTALLED IN METER BOX WITH A SUITABLE METER BOX COVER TO ACCOMMODATE VALVE & ACCESSORIES.

HAND TAMP BACKFILL COVER

CAST IRON COVER MARKED "WATER" FORD NO. 36 MONITOR OR EQUAL

FILL AROUND BOX TO BE WELL COMPACTED

NOTE: COVER TO BE WITH THE WORD "WATER" & BE A LOCKING TYPE COVER.

* 36"

NOTE: BOX IS TO REST ON COMPACTED BACKFILL

NOTE: 2" x 6" SOLID CONCRETE BLOCKS 4" - REQ'D TO SUPPORT BOX OFF MAINLINE

CHECK VALVE SETTING

N.T.S.

NOTE: THIS TYPE OF SETTING REQUIRED FOR INSTALLATION OF NEW PRESSURE REDUCING VALVES AT EXISTING METERS.

NOTE: BOXES TO BE OVAL TYPE W/REINFORCED CONCRETE LID & METAL DOOR

1-1/2" MIN. CLEARANCE

REGULATOR SET AT 80 P.S.I. (UNLESS OTHERWISE DIRECTED)

NOTE: CAST IRON COVER MARKED "WATER", FORD NO. C32 OR EQUAL

FORD - 7" HIGH SINGLE VALVE TANDEN COPPER SETTER OR EQUIVALENT.

PLAN VIEW OF TANDEN COPPER SETTER WITH PRESSURE REGULATOR ON INLET SIDE OF METER

N.T.S.

BITUMINOUS HEAVY-DUTY SURFACE MORE THAN 2"

N.T.S. (N61-01)

DEPTHS MEASURED TO TOP OF CASING PIPE OR PIPE WALL IF NO CASING USED

BEDDING SHALL BE K'YDOT SPEC. #78 EXTEND 3" BEYOND EACH SHOULDER

MECHANICALLY TAMPED CRUSHED STONE IN LAYERS NOT TO EXCEED 4". CRUSHED STONE SHALL BE USED UP TO SHOULDER

PRICE FOR STONE SHALL BE INCLUDED IN THE PRICE BID FOR PAVING REPLACEMENT

6" x 6" - 6/6 WELD WIRE FABRIC

CLASS "A" CONCRETE

MECHANICALLY STAMPED CRUSHED STONE IN LAYERS NOT TO EXCEED 4"

TRACER WIRE (12 GA.)

PRICE FOR STONE SHALL BE INCLUDED IN THE PRICE BID FOR PAVEMENT REPLACEMENT

BEDDING SHALL BE K'YDOT SPEC. #78 EXTEND 3" BEYOND EACH SHOULDER

CONCRETE SURFACE

N.T.S.

18" DIA. x 4" THICK CONCRETE COLLAR W/ 4"x4" TOLA W/M

TYPICAL GATE VALVE ASSEMBLY, SEE STANDARD DETAIL

6" PVC PIPE

6" PVC PIPE AS MAINLINE

6" PVC 16" x 6" MECHANICAL JOINT TEE

TYPICAL THRUST BLOCK, SEE STANDARD DETAILS

6" GATE VALVE

TYPE "C" BLOW-OFF/FLUSH HYDRANT

N.T.S.

PLUG AND ADAPTER

2' OF 5/8" PIPE

SLOTTED BOX

NOTE: THIS DOUBLE METER SETTING CANNOT BE USED WHEN PRESSURE REDUCER IS REQUIRED.

NOTE: 15" MIN. LD. OF BOX 5/8" x 3/4" SETTING

STANDARD METER BOX COVER

3/4" TYPE "K" COPPER OR POLYETHYLENE TUBING

OPTIONAL DOUBLE METER SETTING

N.T.S.

PLUG AND ADAPTER

SLOTTED BOX

1-1/2" MIN. LD.

5/8" x 3/4" SETTING

3/4" TYPE "K" COPPER OR POLYETHYLENE TUBING

NOTE: WHEN DOUBLE SETTING REQUIRES PRESSURE REDUCER, INSTALL A 1" REDUCER ON INLET SIDE OF TEE. A LARGER BOX MAY ALSO BE REQUIRED.

NOTE: BOXES TO BE OVAL TYPE W/REINFORCED CONCRETE LID & METAL DOOR

DOUBLE METER SETTING

N.T.S.

*NOTE: ALL INSTALLATION IN ROCK WILL UTILIZE THE UNDERCUTTING METHOD W/6" CRUSHED STONE BEDDING (SAND FOR A.C.)

PVC, COPPER, OR GALVANIZED IN ROCK ON 6" EARTH & PIPE IS 4" DIA. OR LESS

NOTE: UNDERCUTTING METHOD REQUIRED FOR ALL PVC, CAST IRON & DUCTILE IRON PIPE 4" & ABOVE, OPTIMAL ON ALL OTHER SIZES - A.C. PIPE OF ALL SIZES SHALL USE UNDERCUTTING METHODS, SEE SPECIFICATIONS. (SEE NOTE ELSEWHERE ON THIS SHEET FOR EXCEPTIONS FOR PVC PIPE)

HAND COMPACTED BACKFILL

4" UNDERCUT IN EARTH 4" IN ROCK - (SEE NOTE ABOVE)

UNDERCUTTING METHOD

N.T.S.

(N61-01)

NOTE: AC PIPE CROSSINGS SUBSTITUTE BANK RUN SAND, IF NOT ENCASED, FOR SPEC. #78 STONE. ALL OTHER PIPE MATERIALS USE STONE.

NOTE: EXISTING JOINTS OR BREAKS IN PAVEMENT TO BE USED FOR SAW JOINTS IF POSSIBLE. IF DISTANCE FROM SAWED JOINT TO NEAREST EXISTING JOINT IS LESS THAN 6' REMOVE PAVEMENT TO EXISTING JOINT & REPLACE SLAB.

6" x 6" - 6/6 WELD WIRE FABRIC

CLASS "A" CONCRETE

MECHANICALLY STAMPED CRUSHED STONE IN LAYERS NOT TO EXCEED 4"

TRACER WIRE (12 GA.)

PRICE FOR STONE SHALL BE INCLUDED IN THE PRICE BID FOR PAVEMENT REPLACEMENT

BEDDING SHALL BE K'YDOT SPEC. #78 EXTEND 3" BEYOND EACH SHOULDER

CONCRETE SURFACE

N.T.S.

*NOTE: ALL INSTALLATION IN ROCK WILL UTILIZE THE UNDERCUTTING METHOD W/6" CRUSHED STONE BEDDING (SAND FOR A.C.)

PVC, COPPER, OR GALVANIZED IN ROCK ON 6" EARTH & PIPE IS 4" DIA. OR LESS

NOTE: UNDERCUTTING METHOD REQUIRED FOR ALL PVC, CAST IRON & DUCTILE IRON PIPE 4" & ABOVE, OPTIMAL ON ALL OTHER SIZES - A.C. PIPE OF ALL SIZES SHALL USE UNDERCUTTING METHODS, SEE SPECIFICATIONS. (SEE NOTE ELSEWHERE ON THIS SHEET FOR EXCEPTIONS FOR PVC PIPE)

HAND COMPACTED BACKFILL

4" UNDERCUT IN EARTH 4" IN ROCK - (SEE NOTE ABOVE)

SOLID TRENCH BOTTOM METHOD

N.T.S.

(N61-01)

NOTE: AC PIPE CROSSINGS SUBSTITUTE BANK RUN SAND, IF NOT ENCASED, FOR SPEC. #78 STONE. ALL OTHER PIPE MATERIALS USE STONE.

NOTE: EXISTING JOINTS OR BREAKS IN PAVEMENT TO BE USED FOR SAW JOINTS IF POSSIBLE. IF DISTANCE FROM SAWED JOINT TO NEAREST EXISTING JOINT IS LESS THAN 6' REMOVE PAVEMENT TO EXISTING JOINT & REPLACE SLAB.

6" x 6" - 6/6 WELD WIRE FABRIC

CLASS "A" CONCRETE

MECHANICALLY STAMPED CRUSHED STONE IN LAYERS NOT TO EXCEED 4"

TRACER WIRE (12 GA.)

PRICE FOR STONE SHALL BE INCLUDED IN THE PRICE BID FOR PAVEMENT REPLACEMENT

BEDDING SHALL BE K'YDOT SPEC. #78 EXTEND 3" BEYOND EACH SHOULDER

CONCRETE SURFACE

N.T.S.

18" DIA. x 4" THICK CONCRETE COLLAR W/ 4"x4" TOLA W/M

TYPICAL GATE VALVE ASSEMBLY, SEE STANDARD DETAIL

6" PVC PIPE

6" PVC PIPE AS MAINLINE

6" PVC 16" x 6" MECHANICAL JOINT TEE

TYPICAL THRUST BLOCK, SEE STANDARD DETAILS

6" GATE VALVE

TYPE "C" BLOW-OFF/FLUSH HYDRANT

N.T.S.

PLUG AND ADAPTER

2' OF 5/8" PIPE

SLOTTED BOX

NOTE: THIS DOUBLE METER SETTING CANNOT BE USED WHEN PRESSURE REDUCER IS REQUIRED.

NOTE: 15" MIN. LD. OF BOX 5/8" x 3/4" SETTING

STANDARD METER BOX COVER

3/4" TYPE "K" COPPER OR POLYETHYLENE TUBING

NOTE: WHEN DOUBLE SETTING REQUIRES PRESSURE REDUCER, INSTALL A 1" REDUCER ON INLET SIDE OF TEE. A LARGER BOX MAY ALSO BE REQUIRED.

NOTE: BOXES TO BE OVAL TYPE W/REINFORCED CONCRETE LID & METAL DOOR

DOUBLE METER SETTING

N.T.S.

18" DIA. x 4" THICK CONCRETE COLLAR W/ 4"x4" TOLA W/M

TYPICAL GATE VALVE ASSEMBLY, SEE STANDARD DETAIL

6" PVC PIPE

6" PVC PIPE AS MAINLINE

6" PVC 16" x 6" MECHANICAL JOINT TEE

TYPICAL THRUST BLOCK, SEE STANDARD DETAILS

6" GATE VALVE

TYPE "C" BLOW-OFF/FLUSH HYDRANT

N.T.S.

PLUG AND ADAPTER

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TYPICAL GATE VALVE ASSEMBLY, SEE STANDARD DETAIL

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6" PVC 16" x 6" MECHANICAL JOINT TEE

TYPICAL THRUST BLOCK, SEE STANDARD DETAILS

6" GATE VALVE

TYPE "C" BLOW-OFF/FLUSH HYDRANT

N.T.S.

PLUG AND ADAPTER

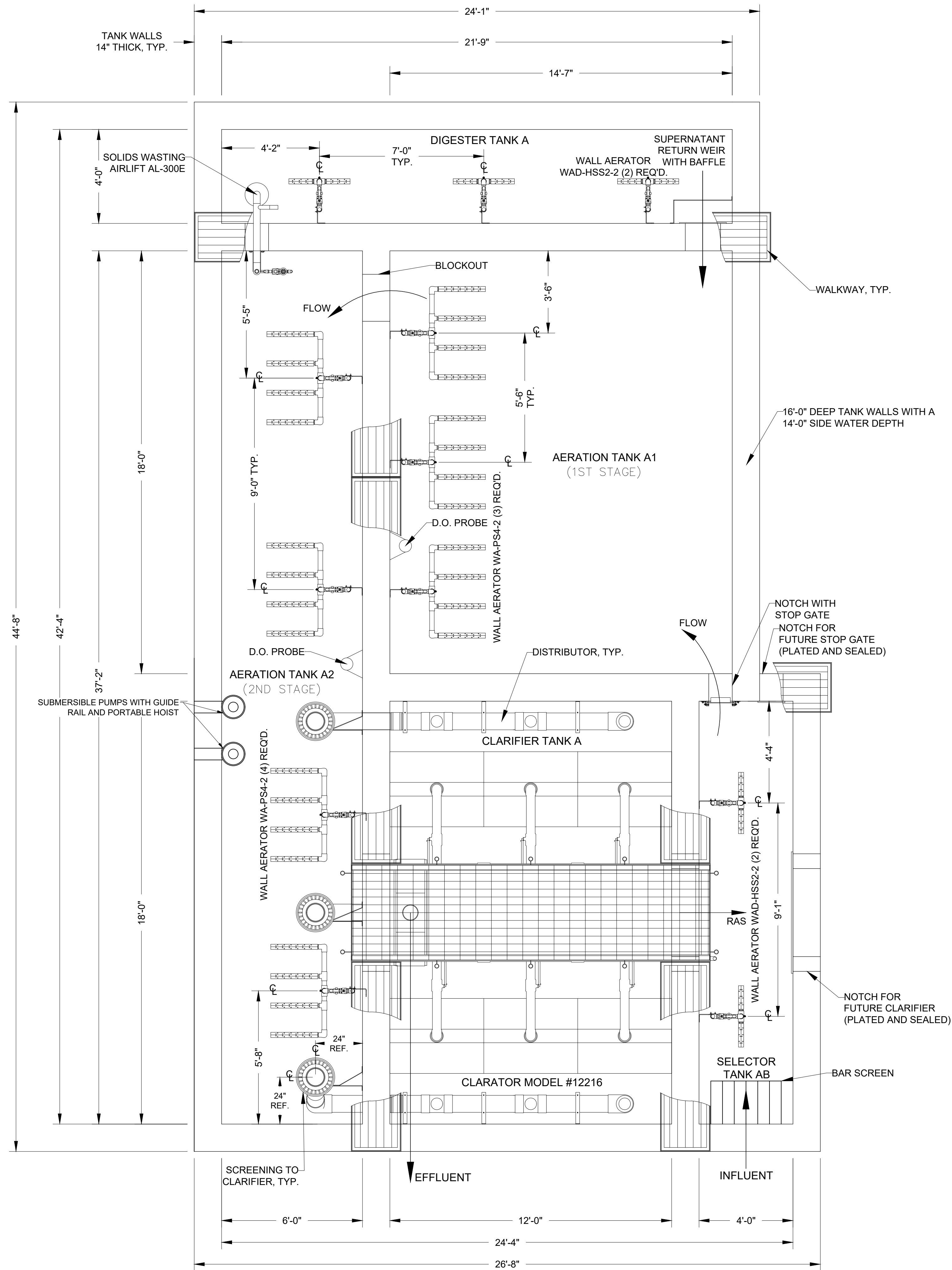
2' OF 5/8" PIPE

SLOTTED BOX

NOTE: THIS DOUBLE METER SETTING CANNOT BE USED WHEN PRESSURE REDUCER IS REQUIRED.

NOTE: 15" MIN. LD. OF BOX 5/8" x 3/4" SETTING

STANDARD METER BOX COVER</

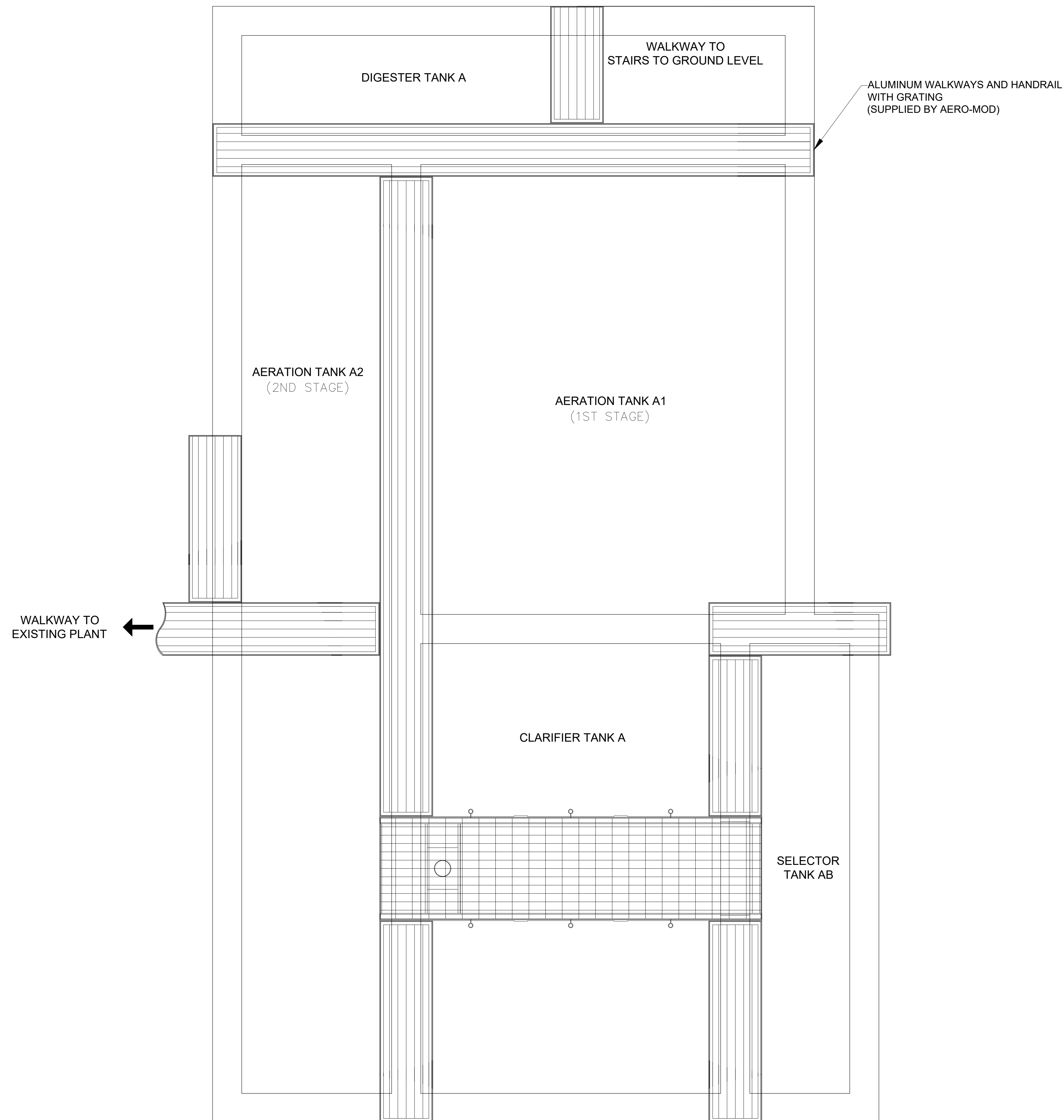


POWELLS VALLEY WATER DISTRICT
EQUIPMENT PLANVIEW
SLADE/NADA
EQWWTP

PROJECT NO.	DESIGNED BY	DATE	REVISION	BY
BY AERO-MOD	BY AERO-MOD			
DRAWN BY	CHECKED BY	DATE		
REVIEWED BY	DATE	AUGUST 2026		
SCALE				

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Phone: (859)223-5694
Fax: (859)223-2607



POWELLS VALLEY WATER DISTRICT
WALKWAY PLANVIEW
SLADE/NADA
EQ/WWTP

[illegible]

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DRAWING NO.

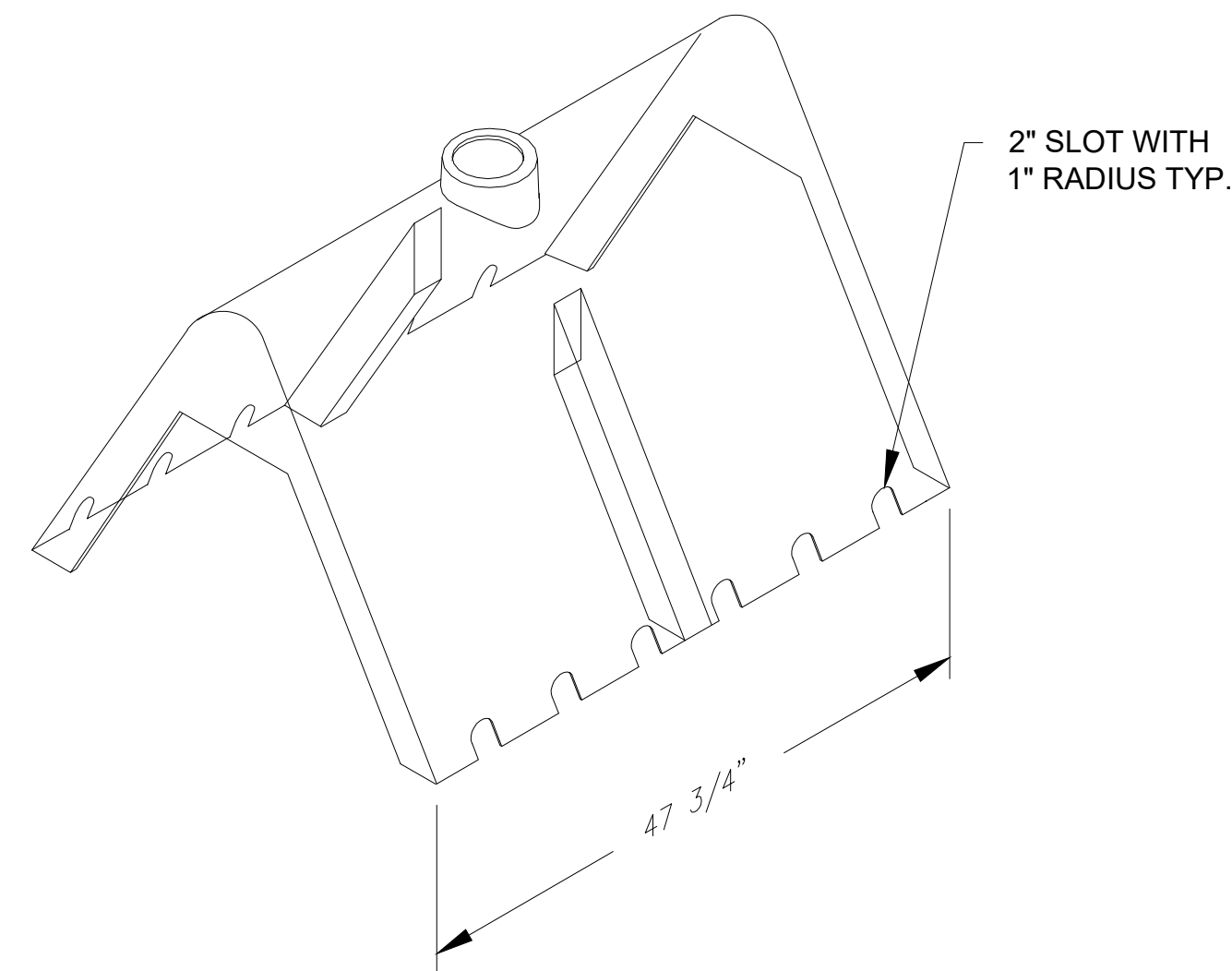
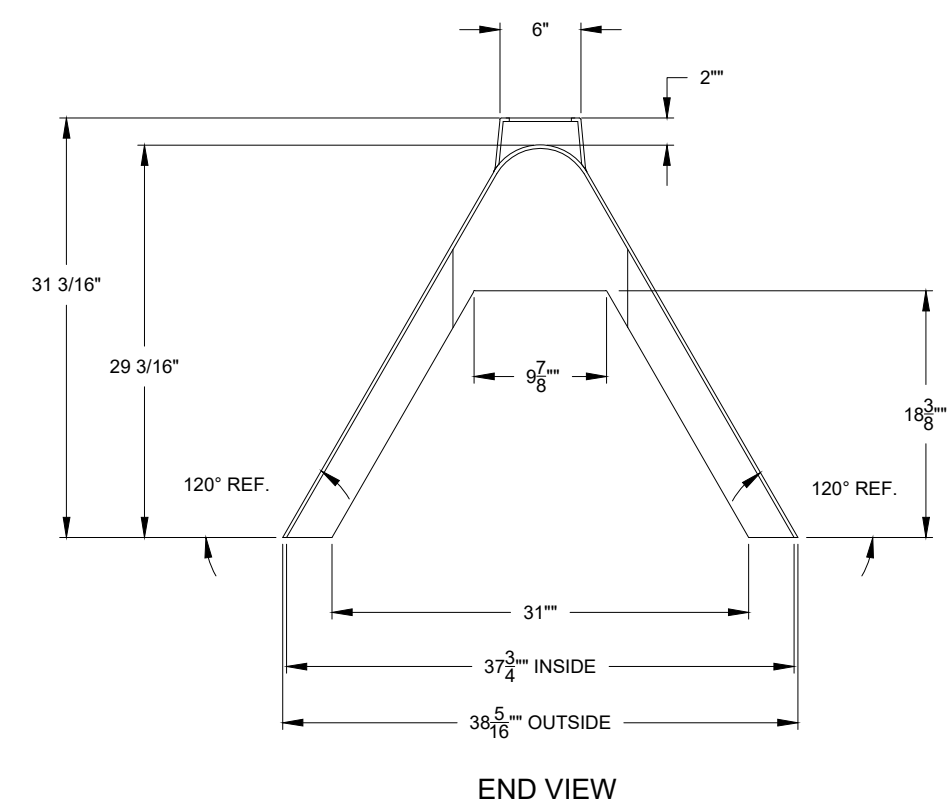
D-1.1

SHEET OF

SUCTION HOOD

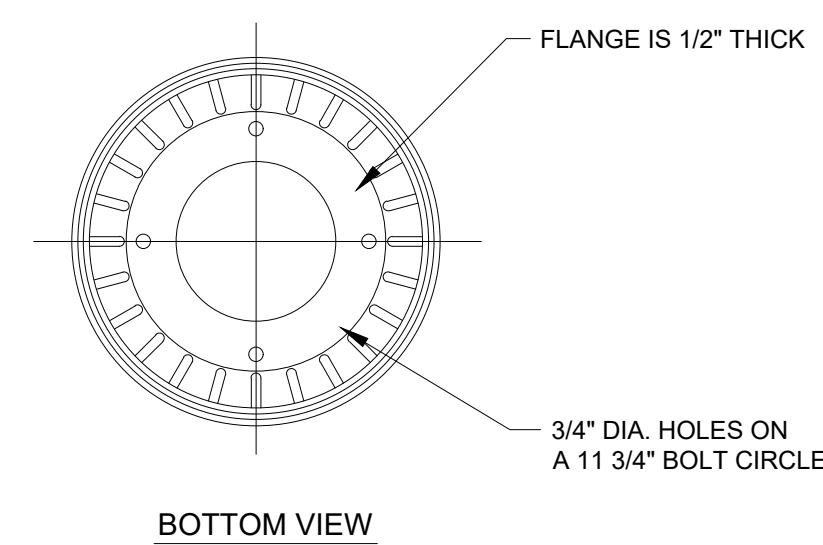
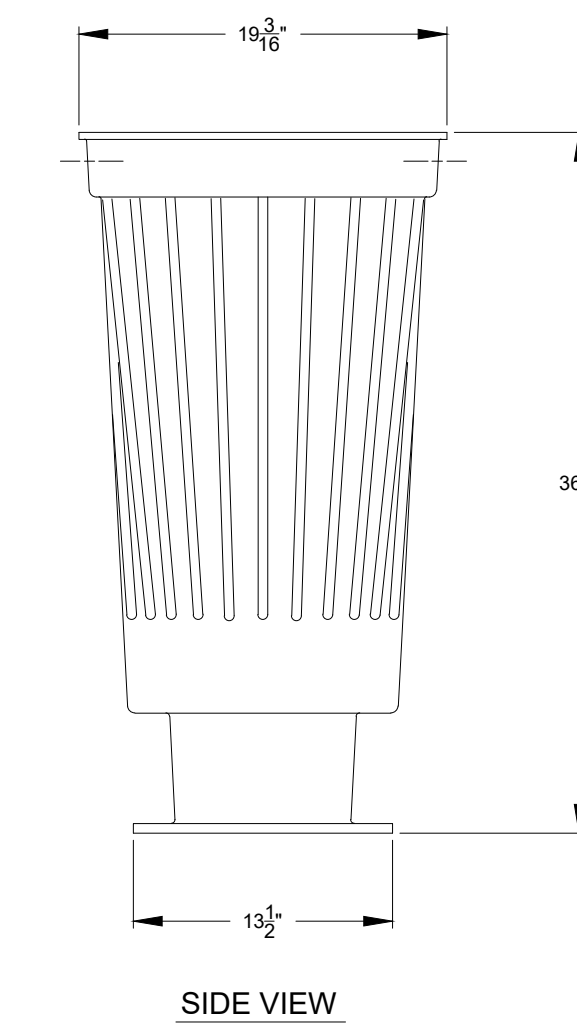
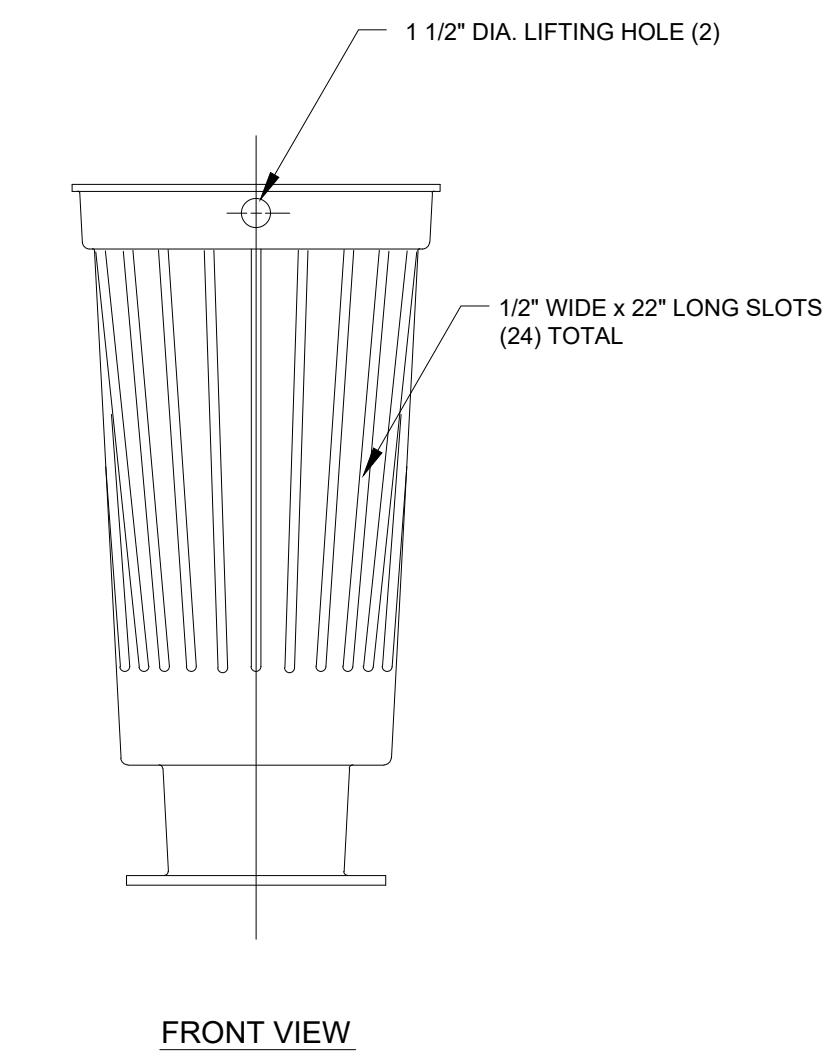
NOTE:

1. MATERIAL 1/4" NOMINAL THICKNESS
MOLDED RTM WITH REINFORCED
POLYESTER RESIN.



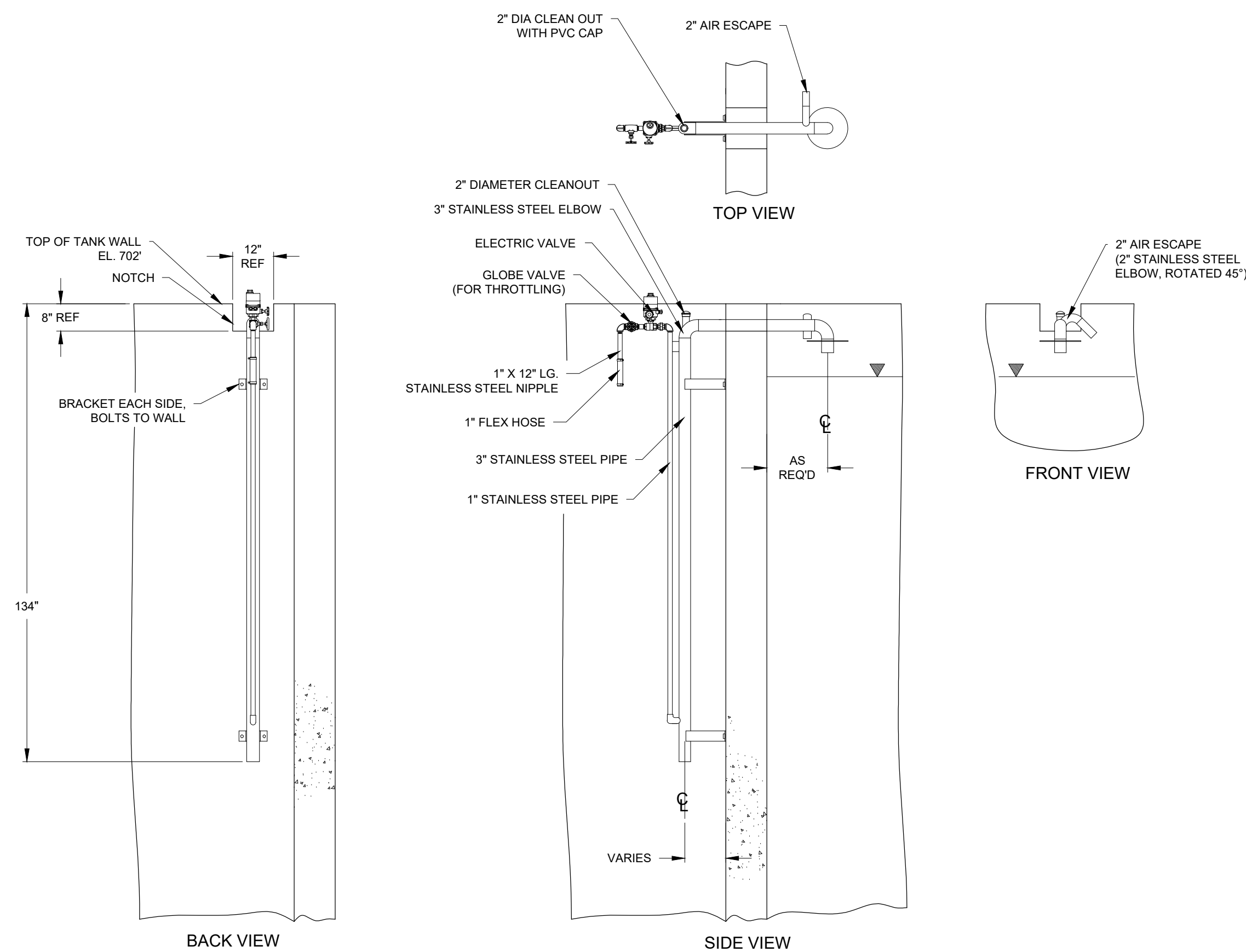
TYPICAL SUCTION HOOD

SCREEN

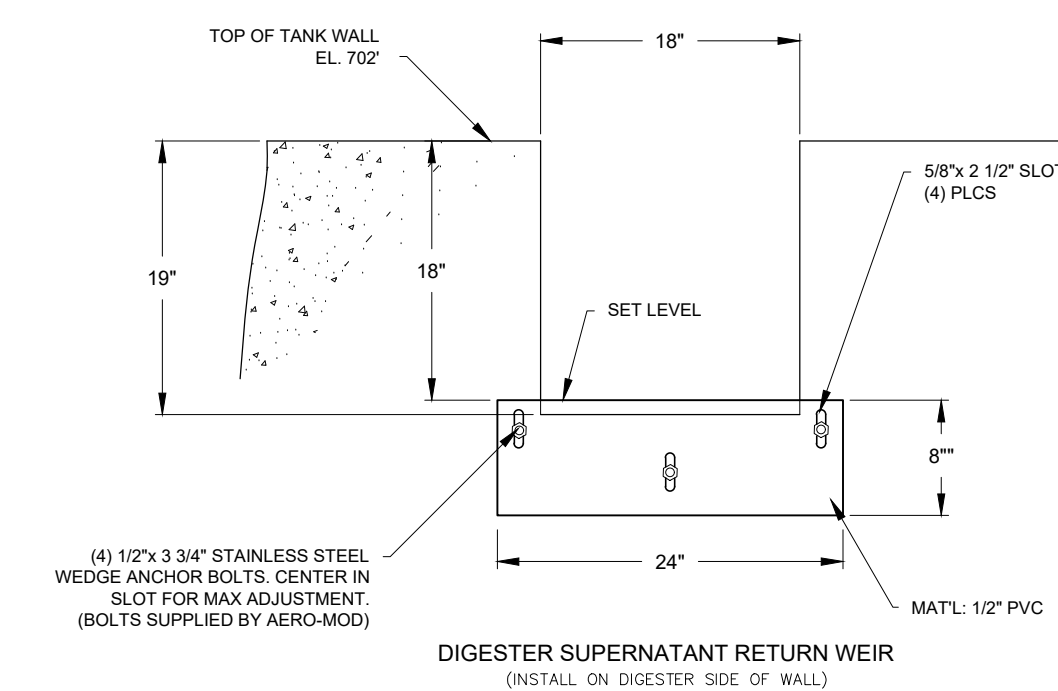
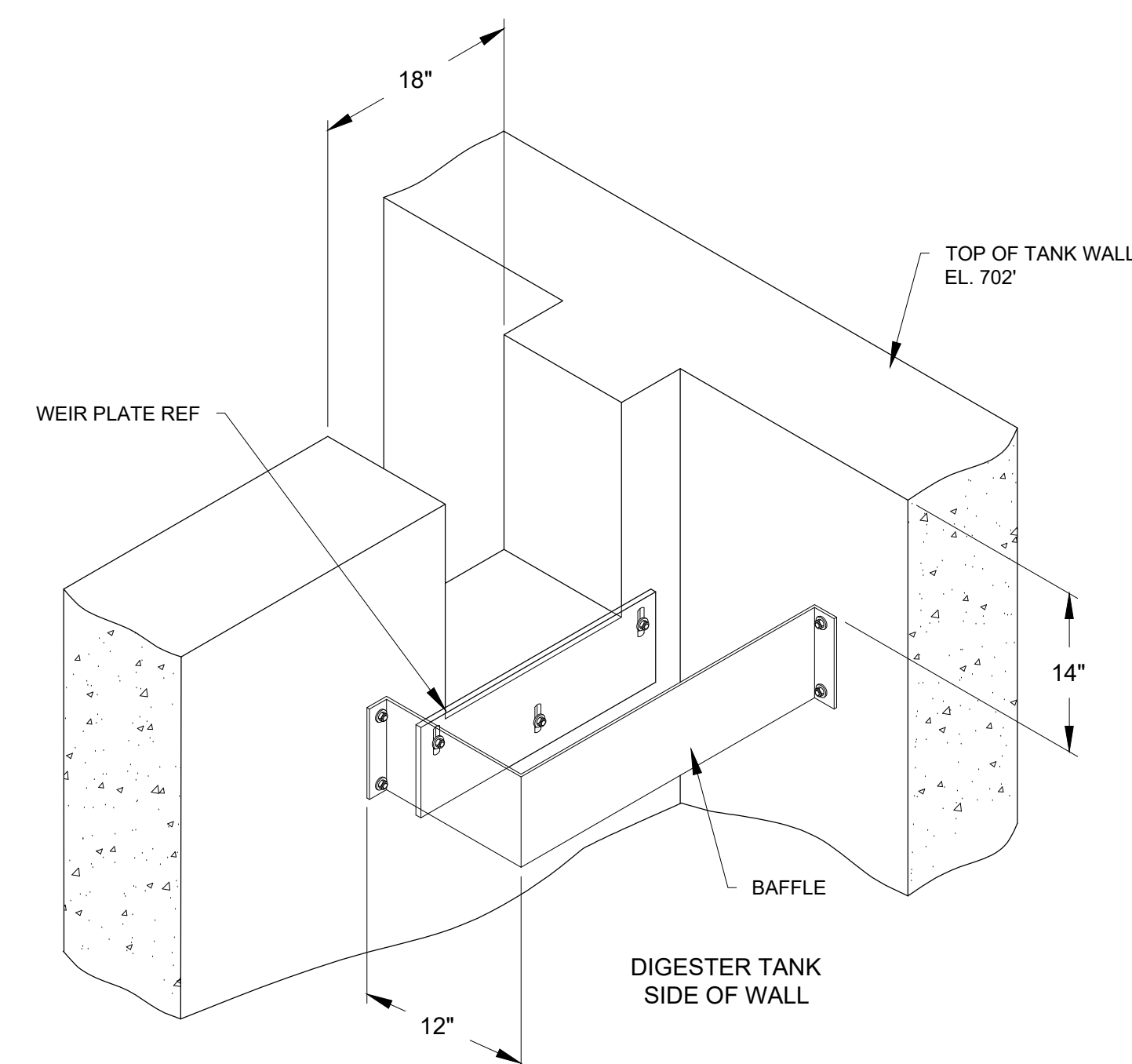


NOTE:

1. MATERIAL IS .038 NOMINAL THICKNESS, PRESSURE MOLDED TELENE.



MODEL AL-300E
SOLIDS WASTING AIRLIFT



DIGESTER SUPERNATANT WEIR (CORNER)

POWELLS VALLEY WATER DISTRICT
EQUIPMENT DETAILS
SLADE/NADA
EQ\WWTP

PROJECT NO.		DESIGNED BY AERO-MOD		DATE		REVISION		BY	
DRAWN BY AERO-MOD		CHECKED BY		DATE		REVISION		BY	
REVIEWED BY		DATE		AUGUST 2006		SCALE			

DESIGN DOCUMENTS:

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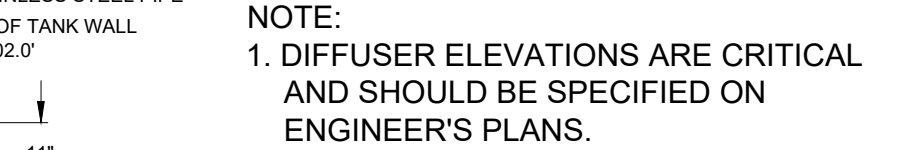
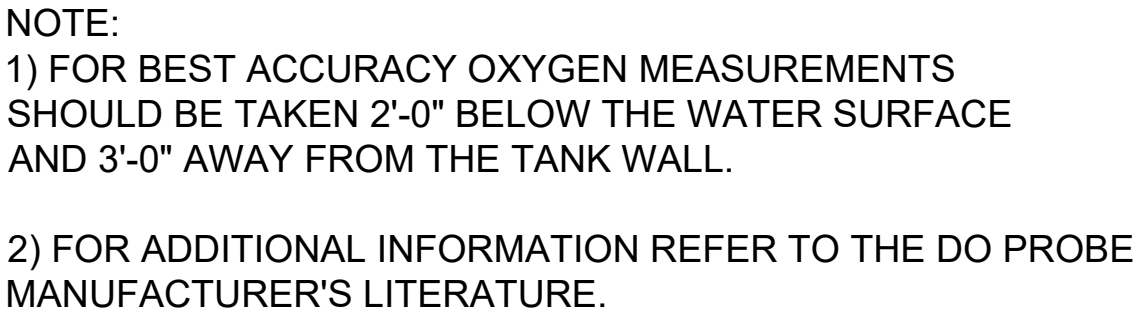
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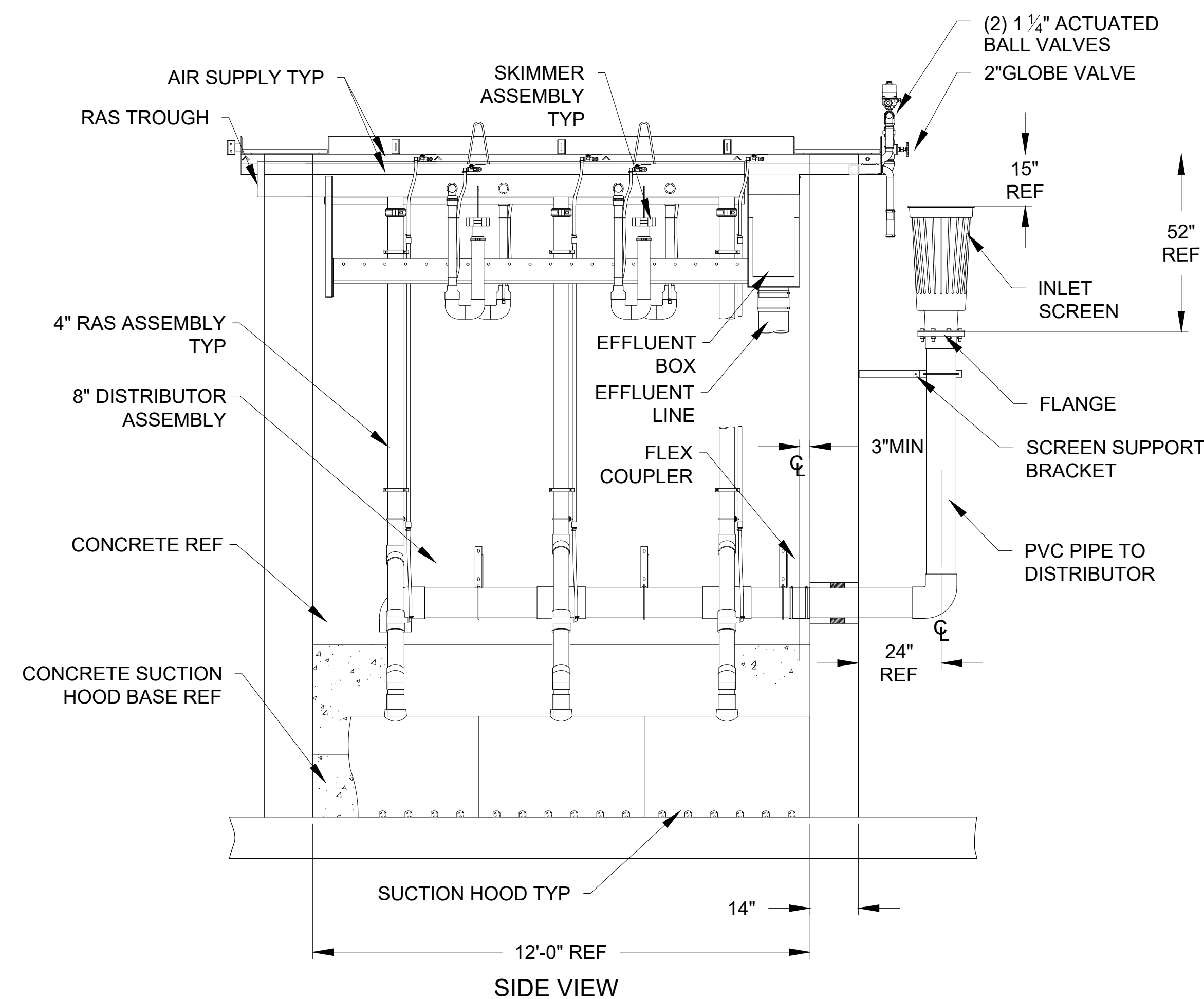
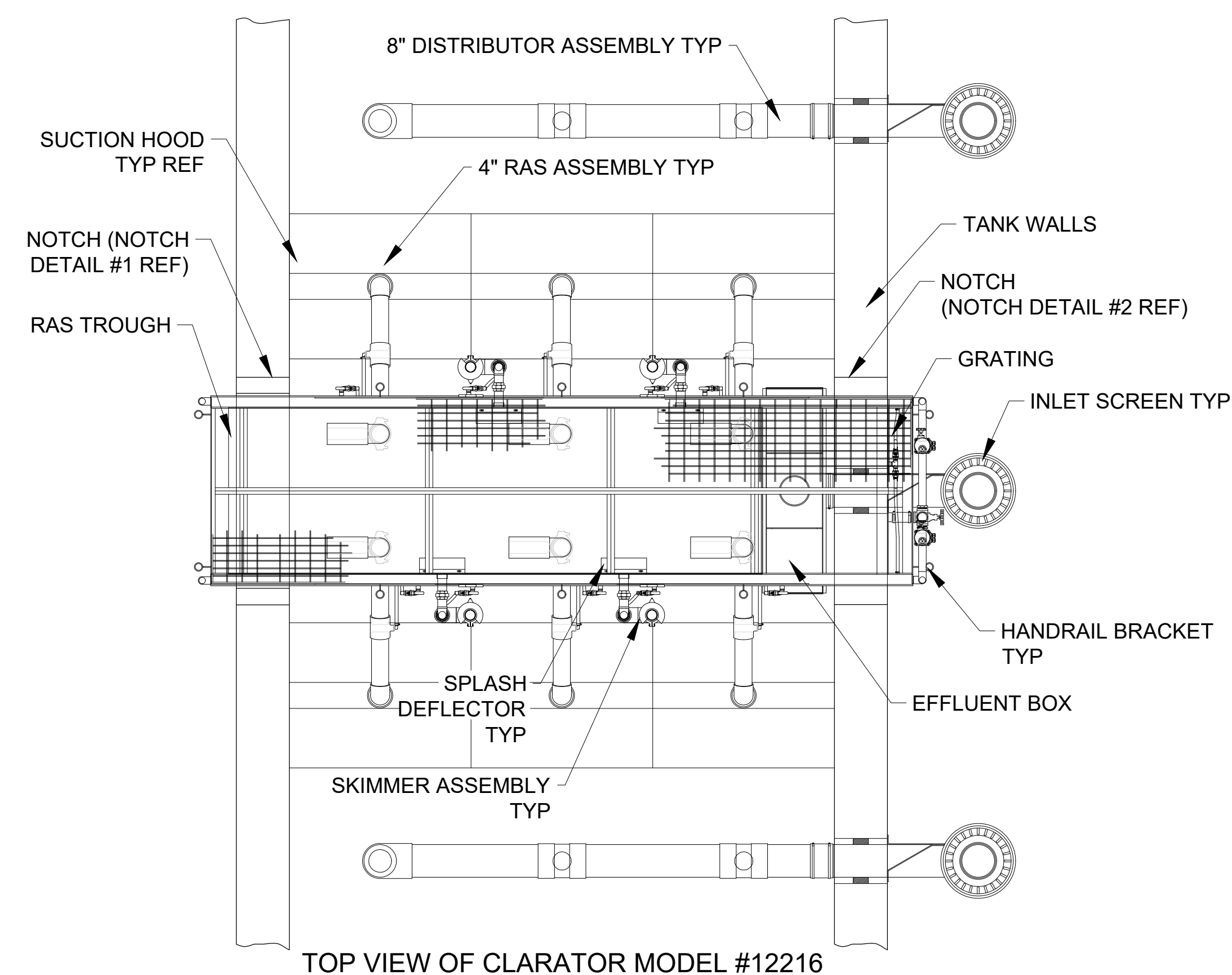
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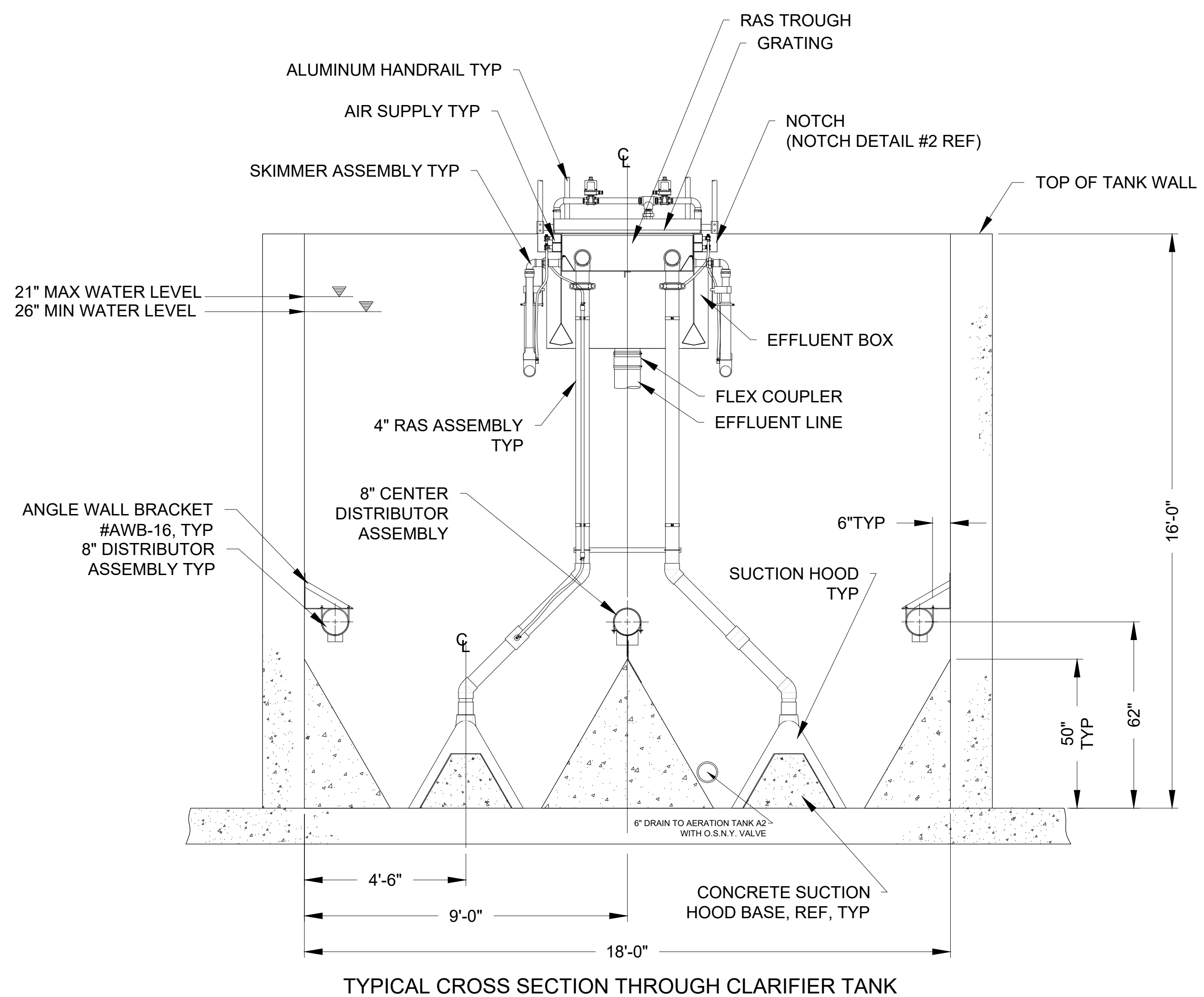
SHEET OF

STOP GATE
(24" FREEBOARD)





CLARATOR
MODEL #12216



POWELLS VALLEY WATER DISTRICT
EQUIPMENT DETAILS
SLADE/NADA
EQ/WWTP

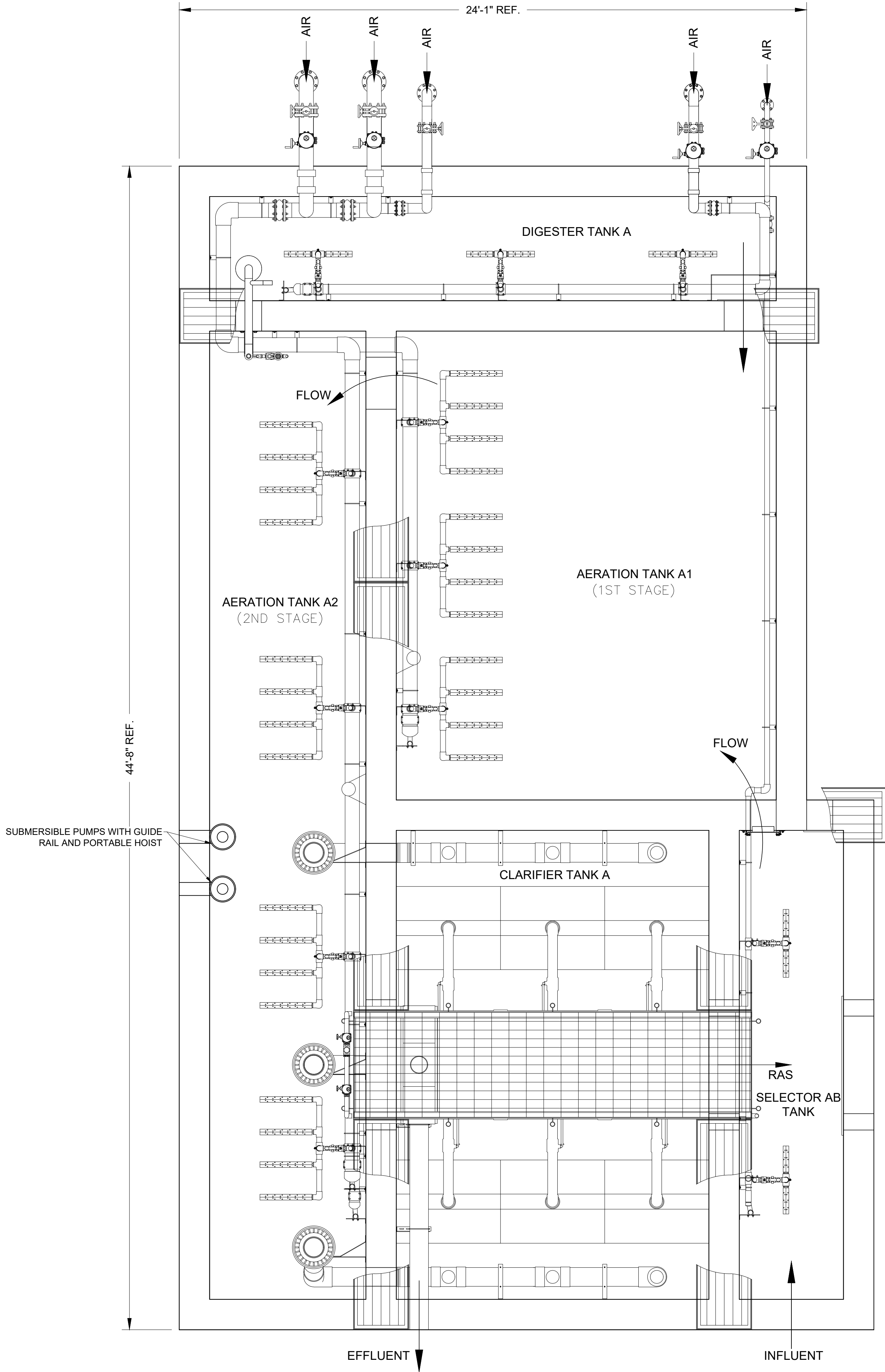
PROJECT NO.		DESIGNED BY		DRAWN BY		CHECKED BY		REVIEWED BY		DATE		REVISION		BY																																																																																																																																																																																																																																																																																																																																					
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It is to be controlled, stored, handled, and disposed of in accordance with the Lockheed Martin Corporation's security policy. 5. Revision History <table><tr><th>Revision</th><th>Description</th><th>By</th><th>Date</th></tr><tr><td>1</td><td>Initial Design</td><td>J. Smith</td><td>10/10/06</td></tr><tr><td>2</td><td>Design Change</td><td>J. Smith</td><td>10/15/06</td></tr><tr><td>3</td><td>Design Change</td><td>J. Smith</td><td>10/20/06</td></tr><tr><td>4</td><td>Design Change</td><td>J. Smith</td><td>10/25/06</td></tr><tr><td>5</td><td>Design Change</td><td>J. Smith</td><td>10/30/06</td></tr><tr><td>6</td><td>Design Change</td><td>J. Smith</td><td>11/05/06</td></tr><tr><td>7</td><td>Design Change</td><td>J. Smith</td><td>11/10/06</td></tr><tr><td>8</td><td>Design Change</td><td>J. Smith</td><td>11/15/06</td></tr><tr><td>9</td><td>Design Change</td><td>J. Smith</td><td>11/20/06</td></tr><tr><td>10</td><td>Design Change</td><td>J. Smith</td><td>11/25/06</td></tr><tr><td>11</td><td>Design Change</td><td>J. Smith</td><td>12/01/06</td></tr><tr><td>12</td><td>Design Change</td><td>J. Smith</td><td>12/05/06</td></tr><tr><td>13</td><td>Design Change</td><td>J. Smith</td><td>12/10/06</td></tr><tr><td>14</td><td>Design Change</td><td>J. Smith</td><td>12/15/06</td></tr><tr><td>15</td><td>Design Change</td><td>J. Smith</td><td>12/20/06</td></tr><tr><td>16</td><td>Design Change</td><td>J. Smith</td><td>12/25/06</td></tr><tr><td>17</td><td>Design Change</td><td>J. Smith</td><td>12/30/06</td></tr><tr><td>18</td><td>Design Change</td><td>J. Smith</td><td>1/05/07</td></tr><tr><td>19</td><td>Design Change</td><td>J. Smith</td><td>1/10/07</td></tr><tr><td>20</td><td>Design Change</td><td>J. Smith</td><td>1/15/07</td></tr><tr><td>21</td><td>Design Change</td><td>J. Smith</td><td>1/20/07</td></tr><tr><td>22</td><td>Design Change</td><td>J. Smith</td><td>1/25/07</td></tr><tr><td>23</td><td>Design Change</td><td>J. Smith</td><td>1/30/07</td></tr><tr><td>24</td><td>Design Change</td><td>J. Smith</td><td>2/05/07</td></tr><tr><td>25</td><td>Design Change</td><td>J. Smith</td><td>2/10/07</td></tr><tr><td>26</td><td>Design Change</td><td>J. Smith</td><td>2/15/07</td></tr><tr><td>27</td><td>Design Change</td><td>J. Smith</td><td>2/20/07</td></tr><tr><td>28</td><td>Design Change</td><td>J. Smith</td><td>2/25/07</td></tr><tr><td>29</td><td>Design Change</td><td>J. Smith</td><td>2/28/07</td></tr><tr><td>30</td><td>Design Change</td><td>J. Smith</td><td>3/05/07</td></tr><tr><td>31</td><td>Design Change</td><td>J. Smith</td><td>3/10/07</td></tr><tr><td>32</td><td>Design Change</td><td>J. Smith</td><td>3/15/07</td></tr><tr><td>33</td><td>Design Change</td><td>J. Smith</td><td>3/20/07</td></tr><tr><td>34</td><td>Design Change</td><td>J. Smith</td><td>3/25/07</td></tr><tr><td>35</td><td>Design Change</td><td>J. Smith</td><td>3/30/07</td></tr><tr><td>36</td><td>Design Change</td><td>J. 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Smith	12/20/06	16	Design Change	J. Smith	12/25/06	17	Design Change	J. Smith	12/30/06	18	Design Change	J. Smith	1/05/07	19	Design Change	J. Smith	1/10/07	20	Design Change	J. Smith	1/15/07	21	Design Change	J. Smith	1/20/07	22	Design Change	J. Smith	1/25/07	23	Design Change	J. Smith	1/30/07	24	Design Change	J. Smith	2/05/07	25	Design Change	J. Smith	2/10/07	26	Design Change	J. Smith	2/15/07	27	Design Change	J. Smith	2/20/07	28	Design Change	J. Smith	2/25/07	29	Design Change	J. Smith	2/28/07	30	Design Change	J. Smith	3/05/07	31	Design Change	J. Smith	3/10/07	32	Design Change	J. Smith	3/15/07	33	Design Change	J. Smith	3/20/07	34	Design Change	J. Smith	3/25/07	35	Design Change	J. Smith	3/30/07	36	Design Change	J. Smith	4/05/07	37	Design Change	J. Smith	4/10/07	38	Design Change	J. Smith	4/15/07	39	Design Change	J. Smith	4/20/07	40	Design Change	J. Smith	4/25/07	41	Design Change	J. Smith	4/30/07	42	Design Change	J. Smith	5/05/07	43	Design Change	J. Smith	5/10/07	44	Design Change	J. 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POWELLS VALLEY WATER DISTRICT
COMBINATION PLANVIEW
SLADE/NADA
EQWWTP

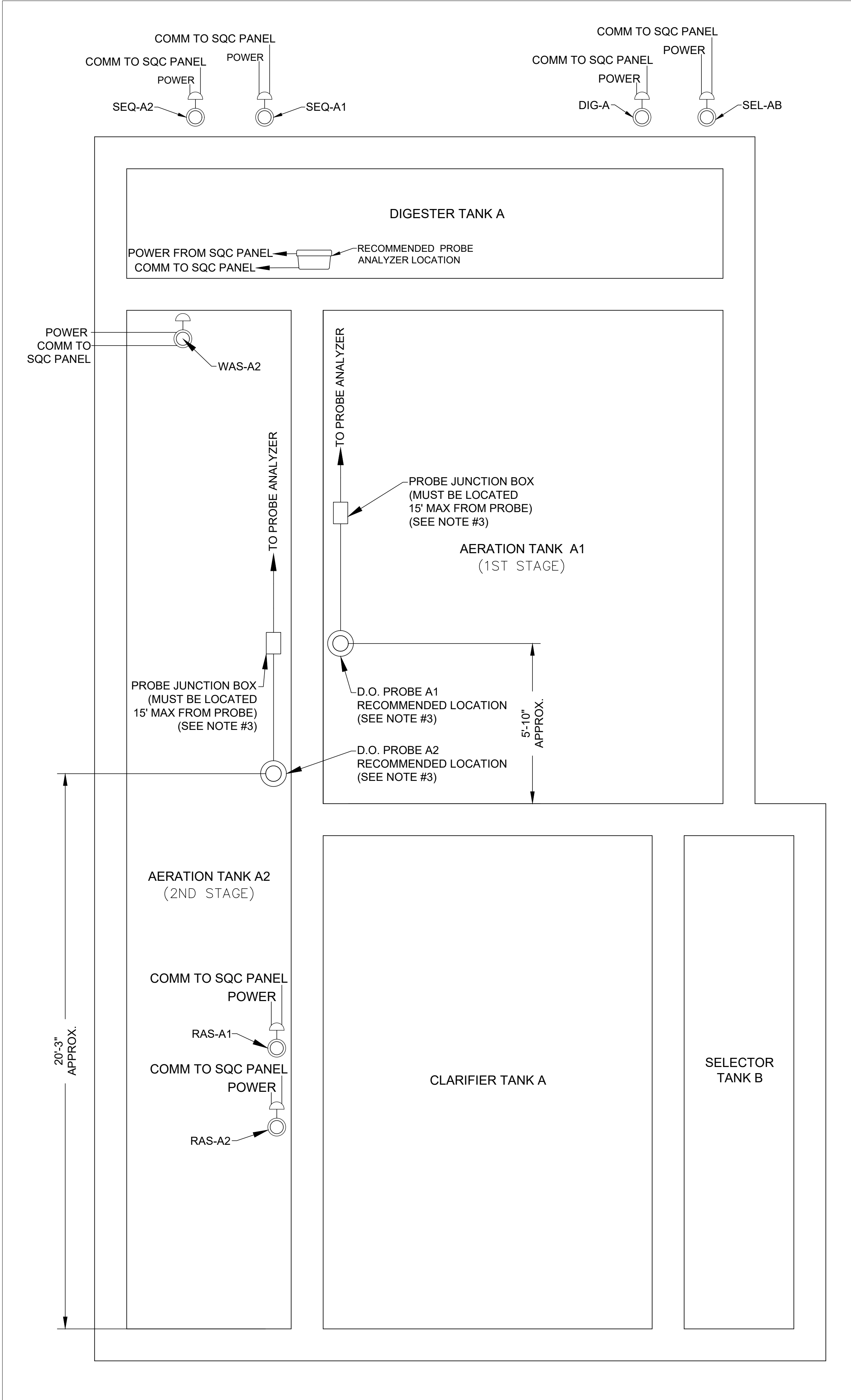
PROJECT NO.	DESIGNED BY	DATE	REVISION	BY
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REVIEWED BY	REVIEWED BY			
DATE	DATE	AUGUST 2026		
SCALE	SCALE			

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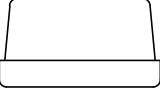
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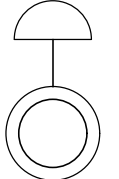


SYMBOL KEY

**PROBE**

**CONTROLLER PANEL**

**JUNCTION BOX**

**ELECTRIC VALVE**

NOTE:

1. ALL NYLON TUBE CONNECTIONS MUST BE MADE OUTSIDE OF PVC CONDUIT LINES AND ABOVE WATER LEVEL.

2. THE PNEUMATIC SCHEMATIC DRAWING IS FOR CONTRACTOR USE ONLY (TO AID IN INSTALLATION).

NOTE:

1. ALL POWER FROM DISTRIBUTION PANEL UNLESS OTHERWISE NOTED

2. EXTENSION CABLES WILL REQUIRE ADDITIONAL CONDUIT (1") TO D.O. PROBE CONTROLLER VIA THE JUNCTION BOX. (GENERAL CONTRACTOR)

3. HEIGHT AND LOCATION OF PANEL/JUNCTION BOX TO BE DETERMINED BY ELECTRICAL ENGINEER

VALVE ABBREVIATION GUIDE

XXX - X(X)# - #

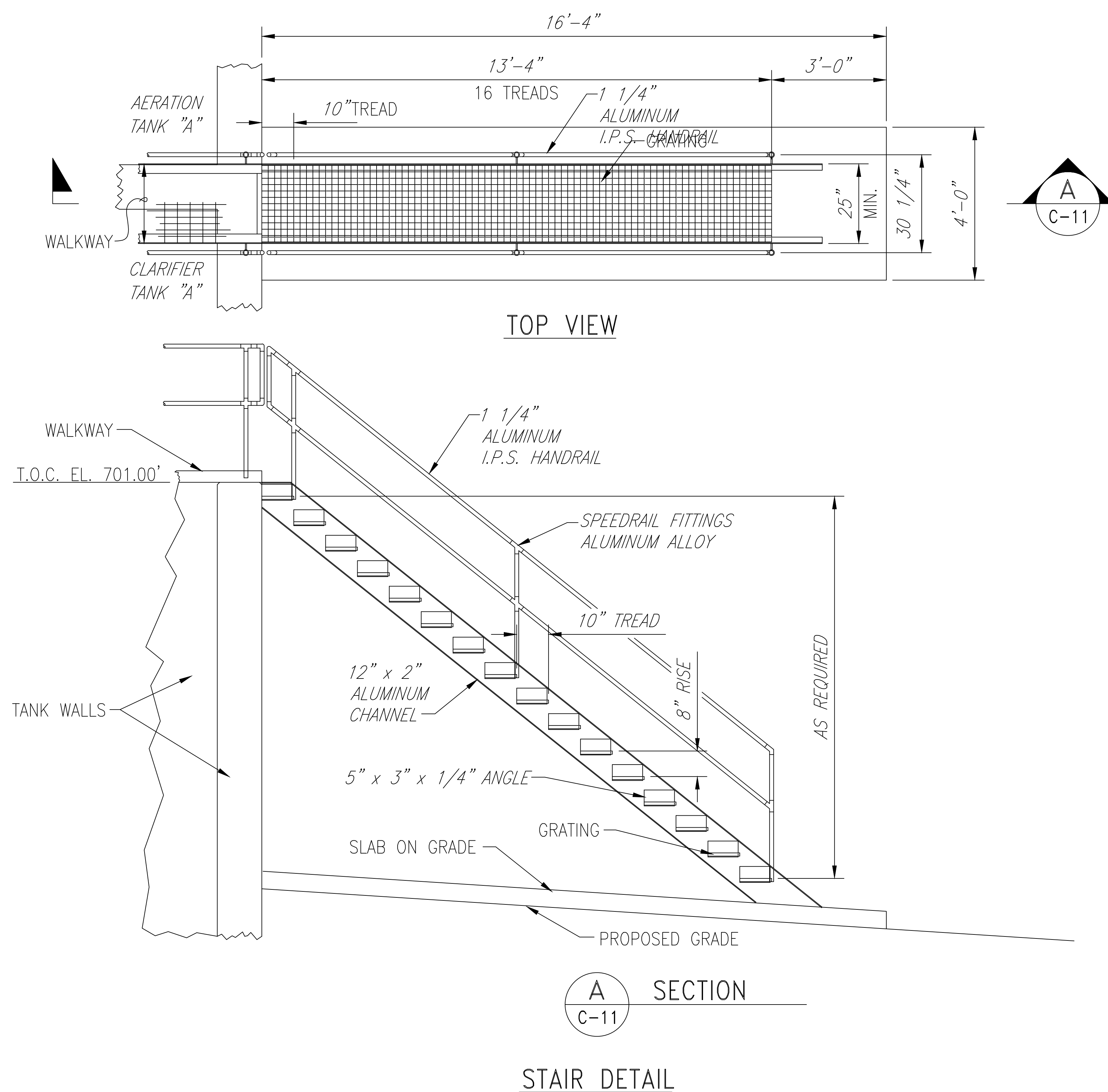
INDICATES TYPE/FUNCTION FOR VALVE OR EQUIPMENT

INDICATES TRAIN(S)/LOCATION

INDICATES CYCLE/STAGE

INDICATES CYCLE/STAGE/ VALVE OR EQUIPMENT NUMBER

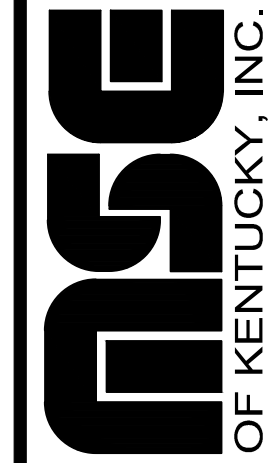
RAS = RETURN ACTIVATED SLUDGE
SEQ = SEQUOX VALVE
DIG = DIGESTER
WAS = WASTE ACTIVATED SLUDGE
SEL = SELECTOR TANK (MAY HAVE BIO-P AS A PREFIX)



POWELLS VALLEY WATER DISTRICT
EQUIPMENT DETAILS
SLADE/NADA
EQWWTTP

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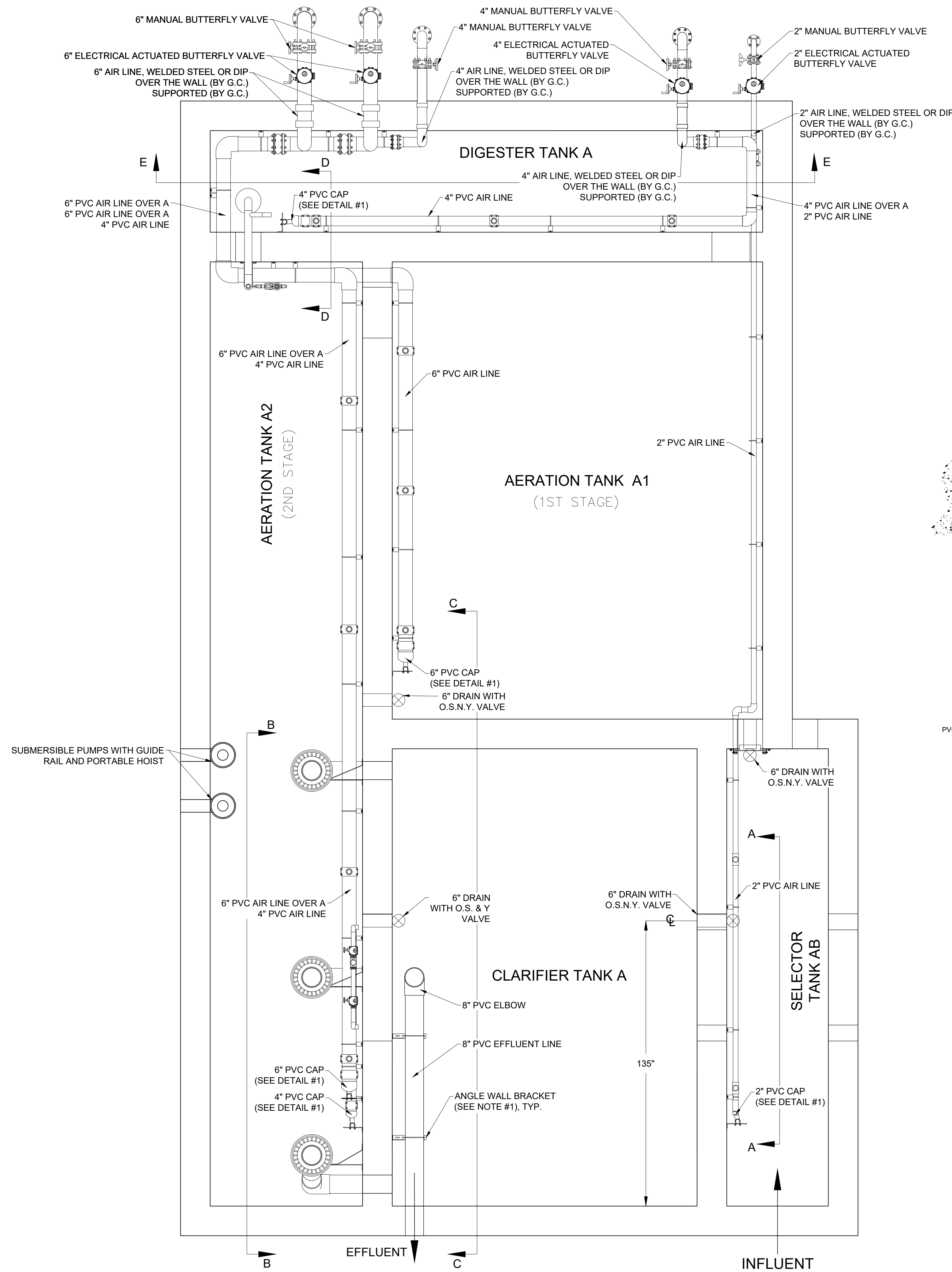


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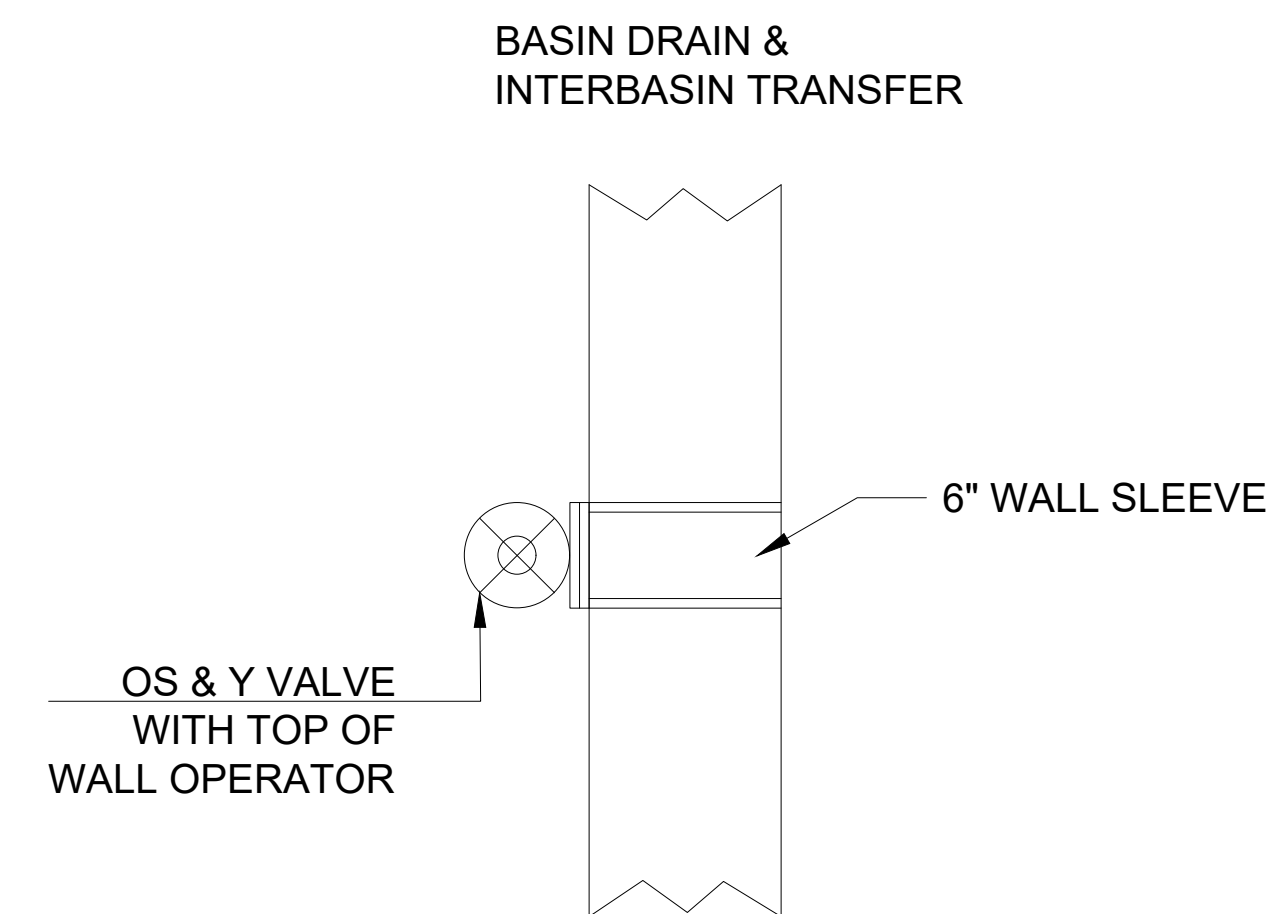
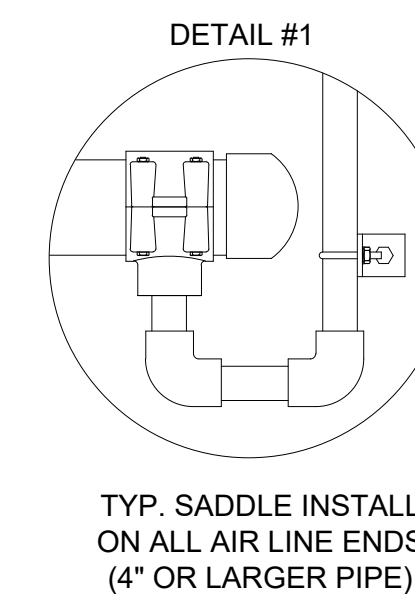
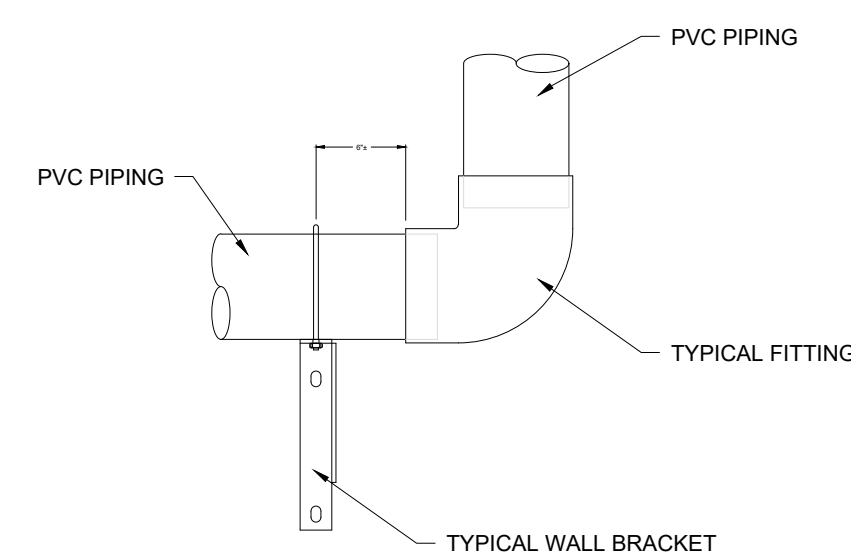
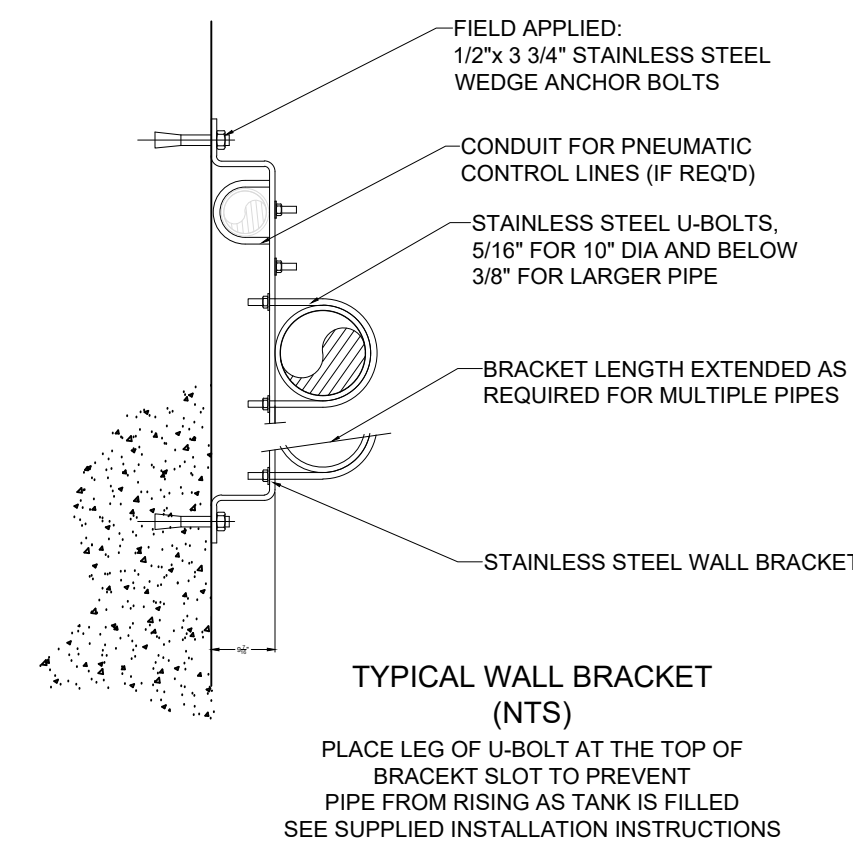
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- NOTE:
1. STAINLESS STEEL WALL BRACKETS AND ANGLE WALL BRACKETS ARE TYPICALLY SPACED 5'-0" APART. (SUPPLIED BY AERO-MOD) UNLESS NOTED PIPE IS SECURED TO WALL BRACKETS WITH A STAINLESS STEEL U-BOLT.
 2. EXPANSION JOINTS ARE REQUIRED AT 40' INTERVALS ON 6" DIA. AND LARGER STRAIGHT PVC PIPING RUNS. SUPPLIED (BY G.C.), UNLESS OTHERWISE NOTED
 3. PLACE WALL BRACKETS IN PROPER LOCATIONS TO SUPPORT PIPE WITHOUT PUTTING UNNECESSARY STRESS ON PIPE FITTINGS & EXPANSION JOINTS



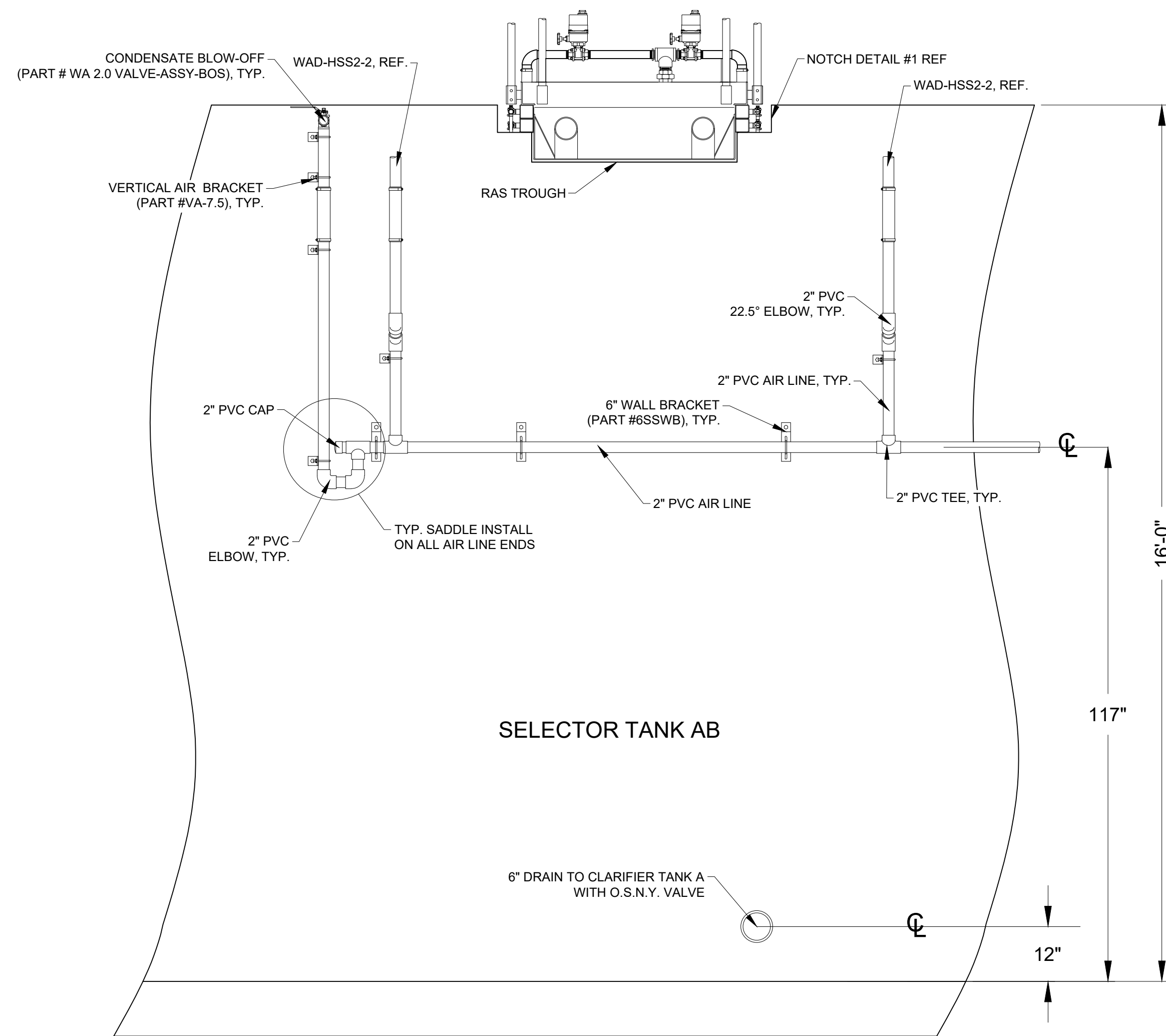
POWELLS VALLEY WATER DISTRICT
PIPING PLANVIEW
SLADE/NADA
EQ/WWTP

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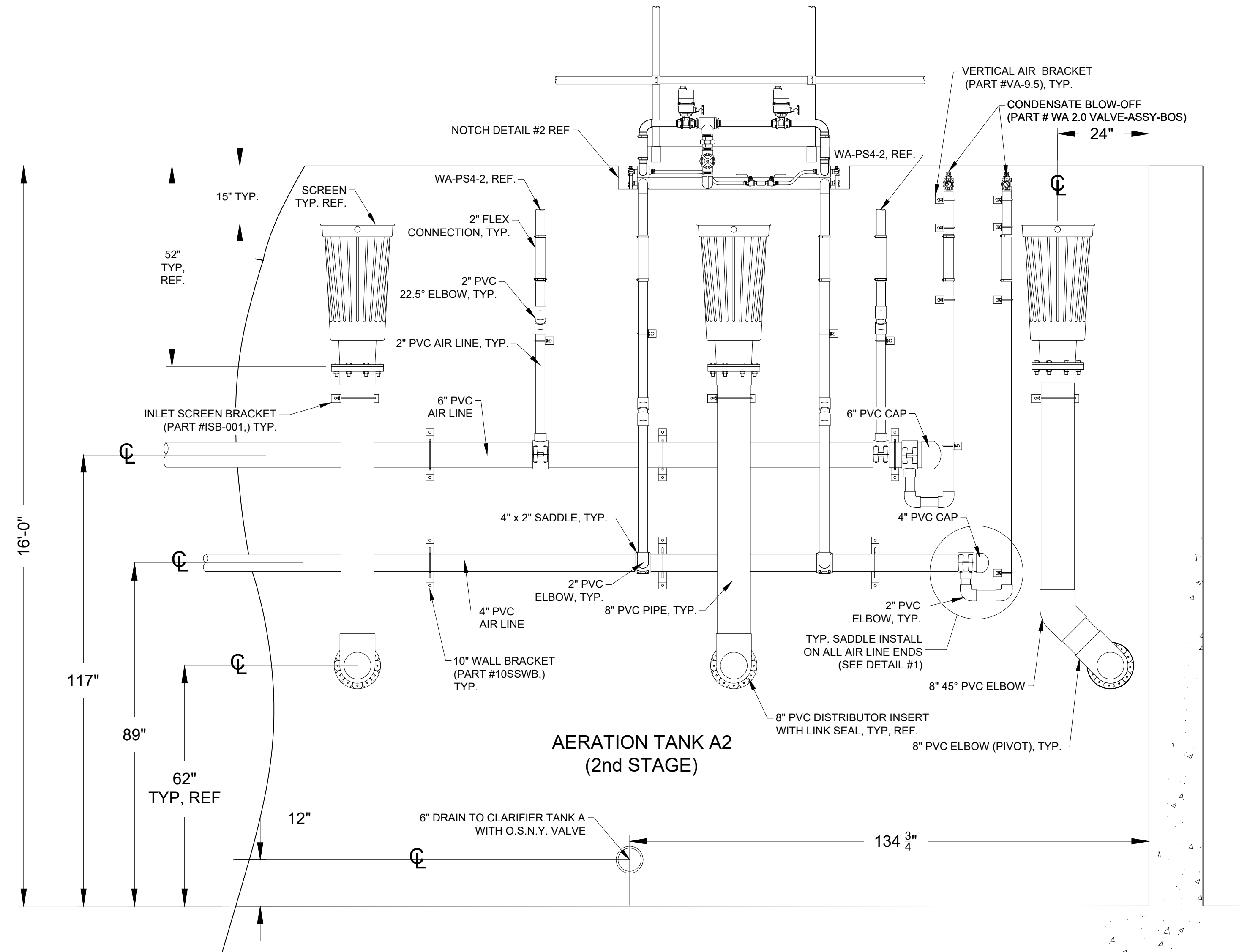
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SECTION A-A



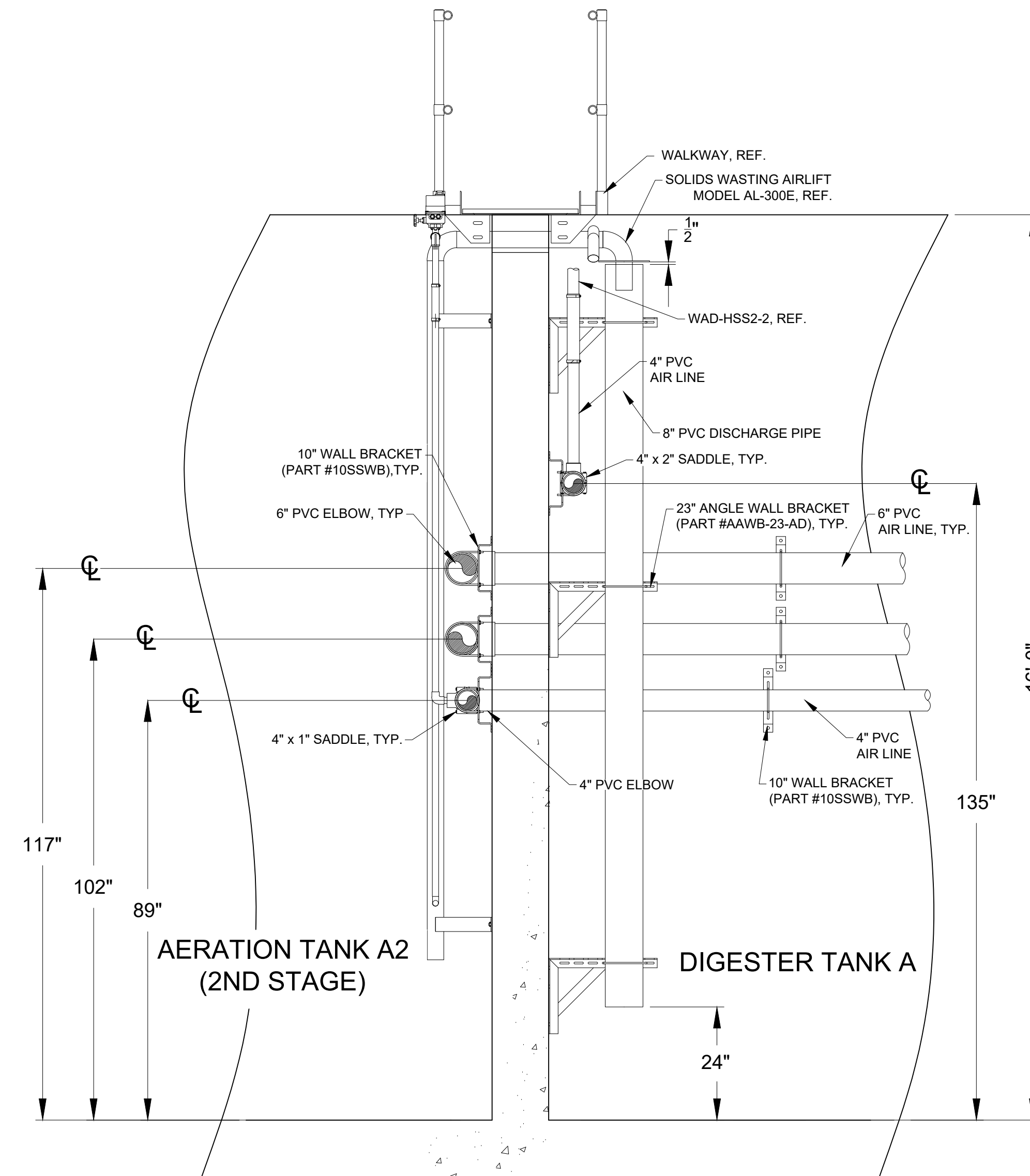
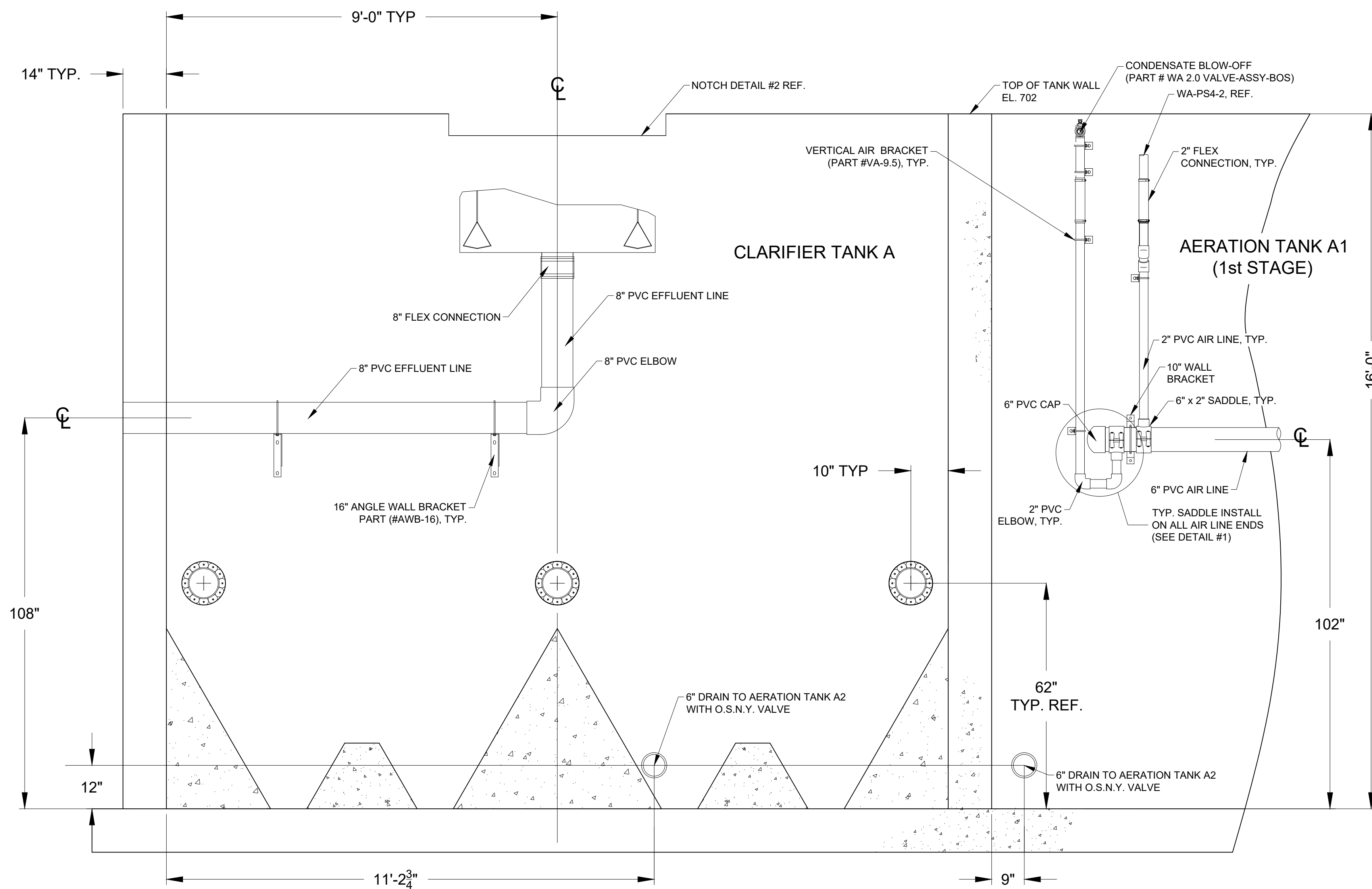
SECTION VIEW B-B

POWELLS VALLEY WATER DISTRICT
PIPING SECTION VIEW A-A AND B-B
SLADE/NADA
EQMWTP

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DRAWING NO.
D-2.1
SHEET OF



POWELLS VALLEY WATER DISTRICT
PIPING SECTION VIEW C-C AND D-D

SLADE/NADA

EQWWTP

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1. DUE TO MOVEMENT, WEIGHT AND VIBRATION OF PIPING THROUGH THE WALL AND THE PIPING OUTSIDE OF THE TANK WALLS, PIPING MUST BE RIGIDLY SUPPORTED TO PREVENT INTERIOR PVC PIPE DAMAGE.
AN EXPANSION JOINT IS REQUIRED TO ISOLATE THE MOVEMENT OF THE PVC PIPING, D.I.P. PIPING OR WELDED STEEL PIPING AT THE POINT OF CONNECTION INSIDE OF TANKS.
(THIS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.)



SECTION VIEW
E-E

POWELLS VALLEY WATER DISTRICT
PIPING SECTION VIEW E-E

SLADE/NADA
EQ/WWTP

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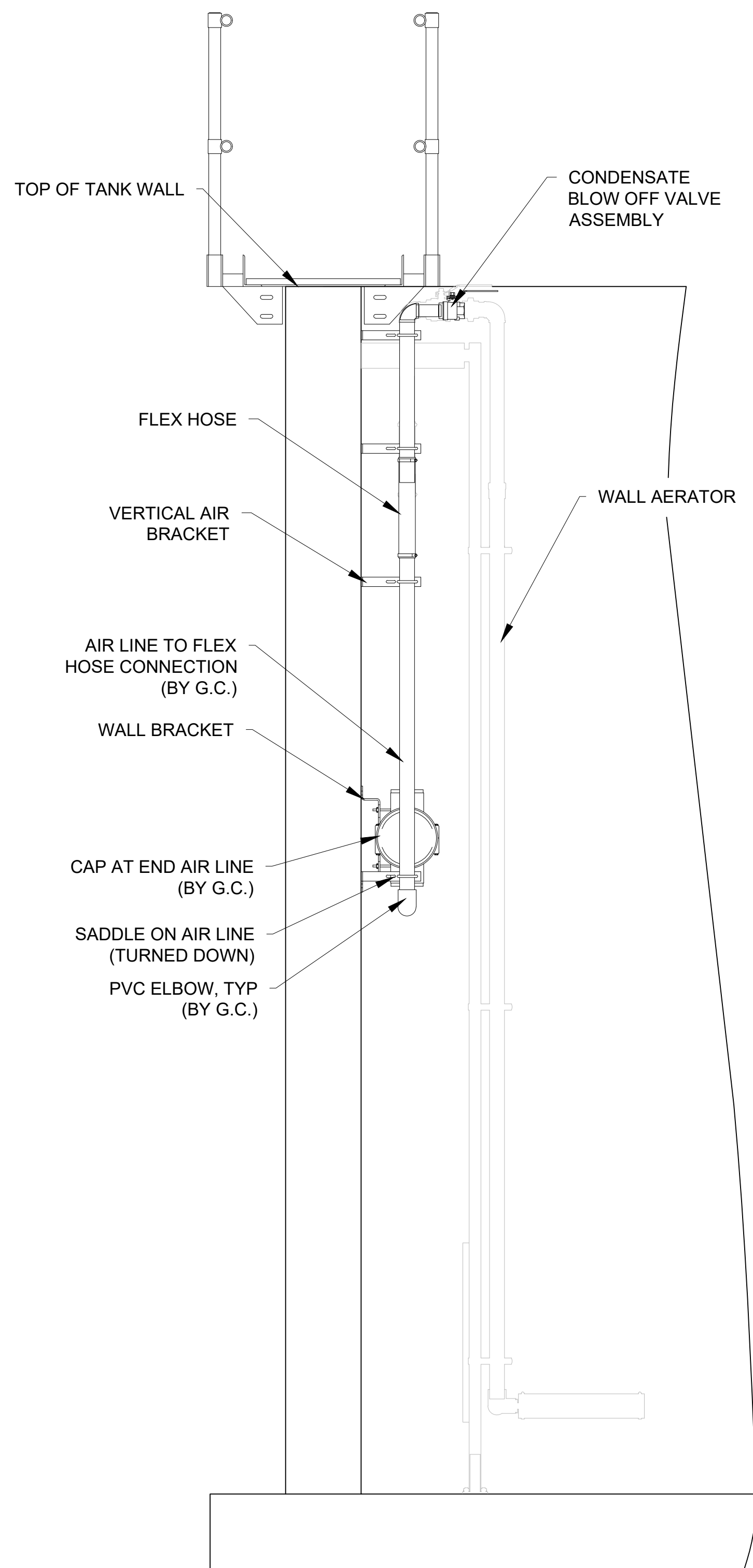
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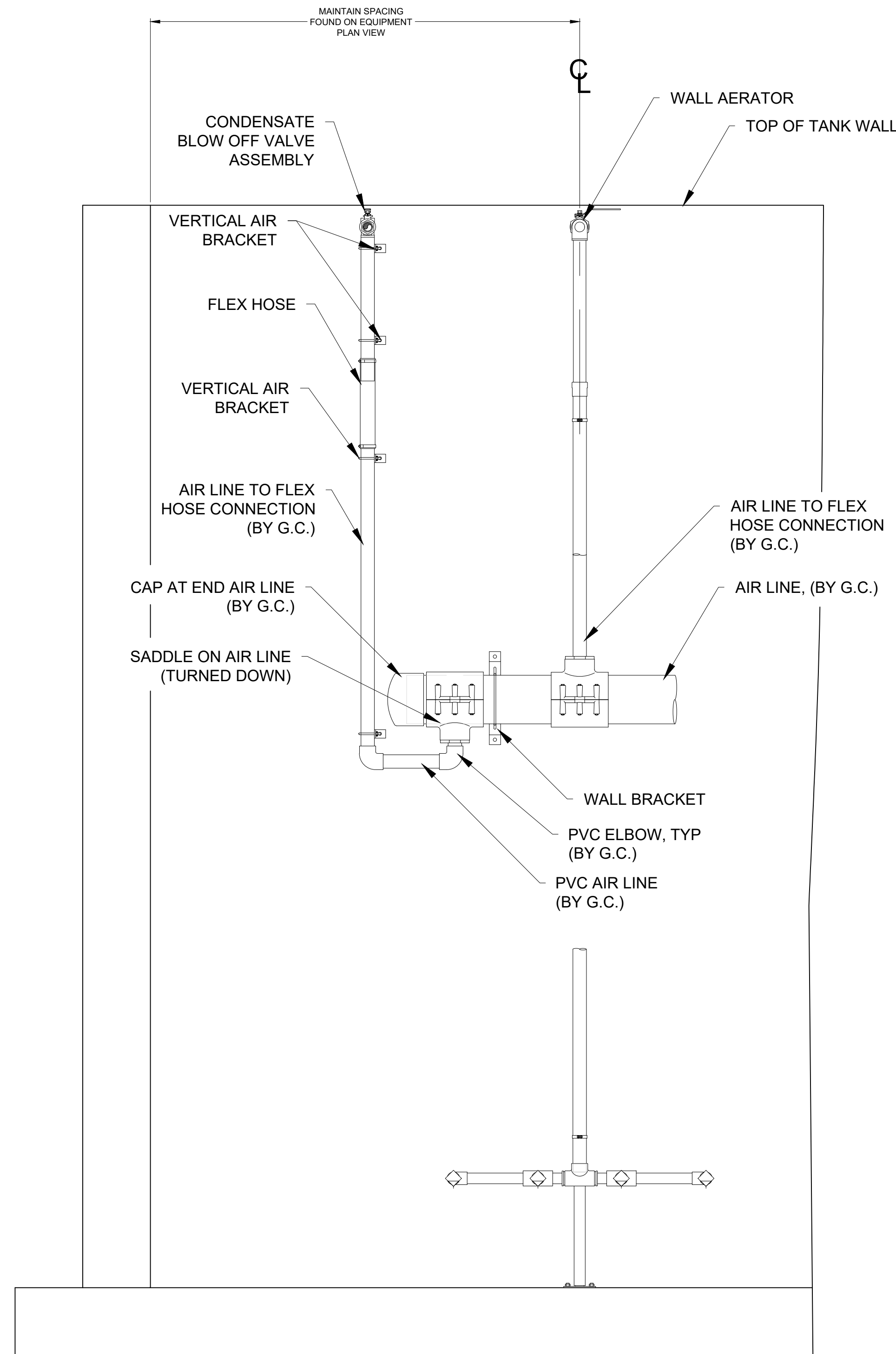
DRAWING NO.

D-2.3

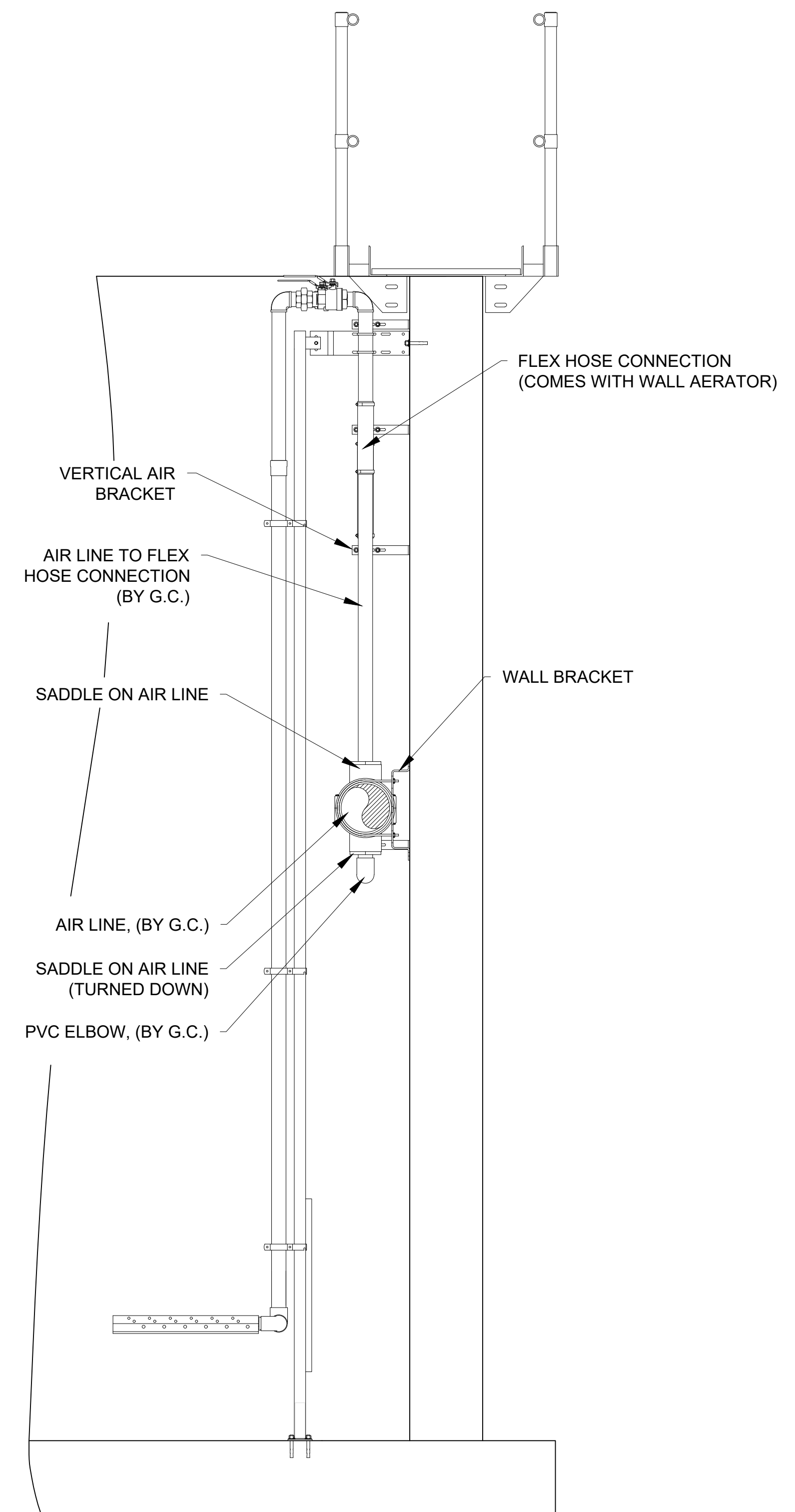
SHEET OF



SIDE VIEW



FRONT VIEW



SIDE VIEW

TYPICAL END OF AIR LINE RUN AND WALL AERATOR CONNECTION

POWELLS VALLEY WATER DISTRICT
TYPICAL END OF AIR LINE RUN
SLADE/NADA
EQ/WWTP

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DRAWING NO.
D-2.4
SHEET OF

[illegible]

POWELLS VALLEY WATER DISTRICT
SECTION VIEW F-F
SLADE/NADA
EQ/WWTP

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DRAWING NO.

D-3.1

SHEET OF

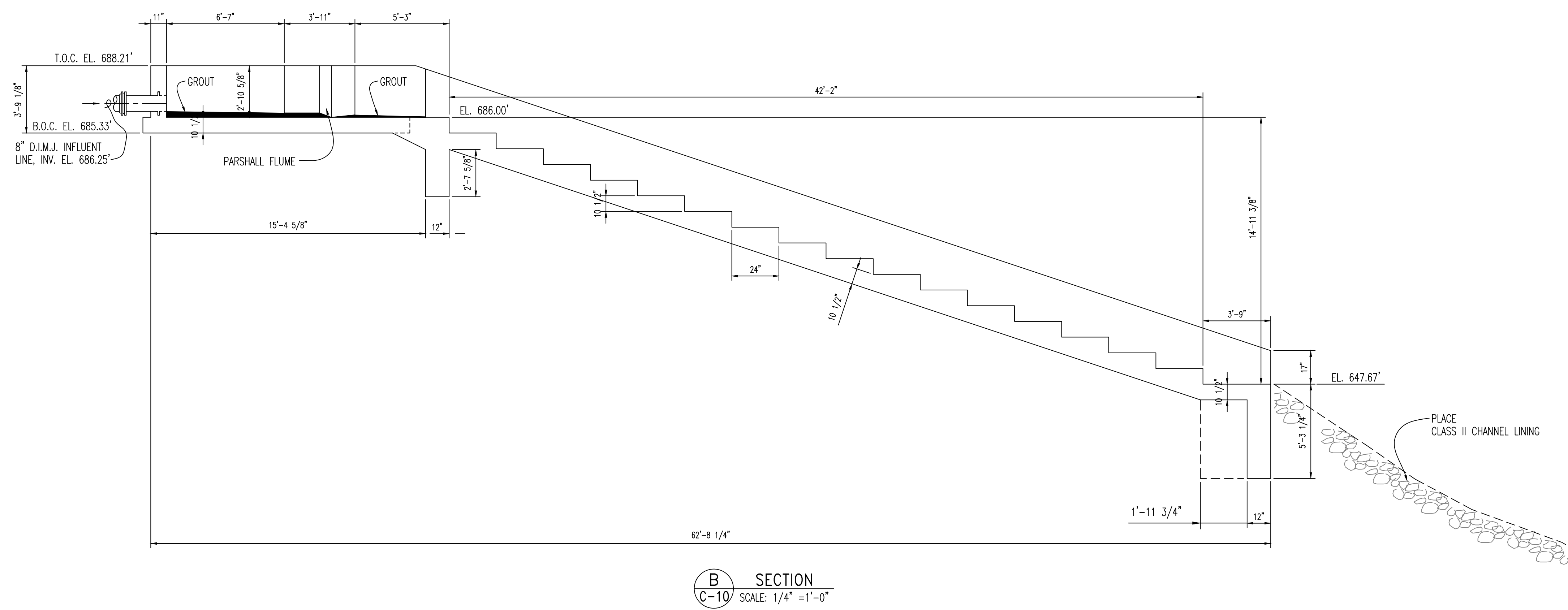
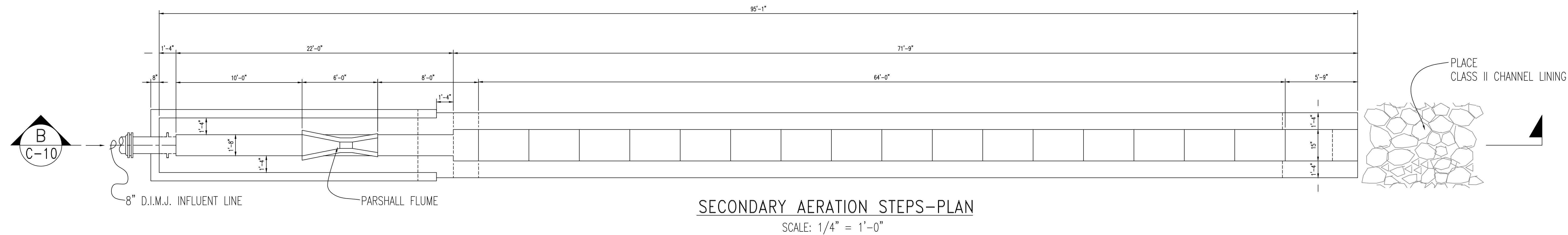
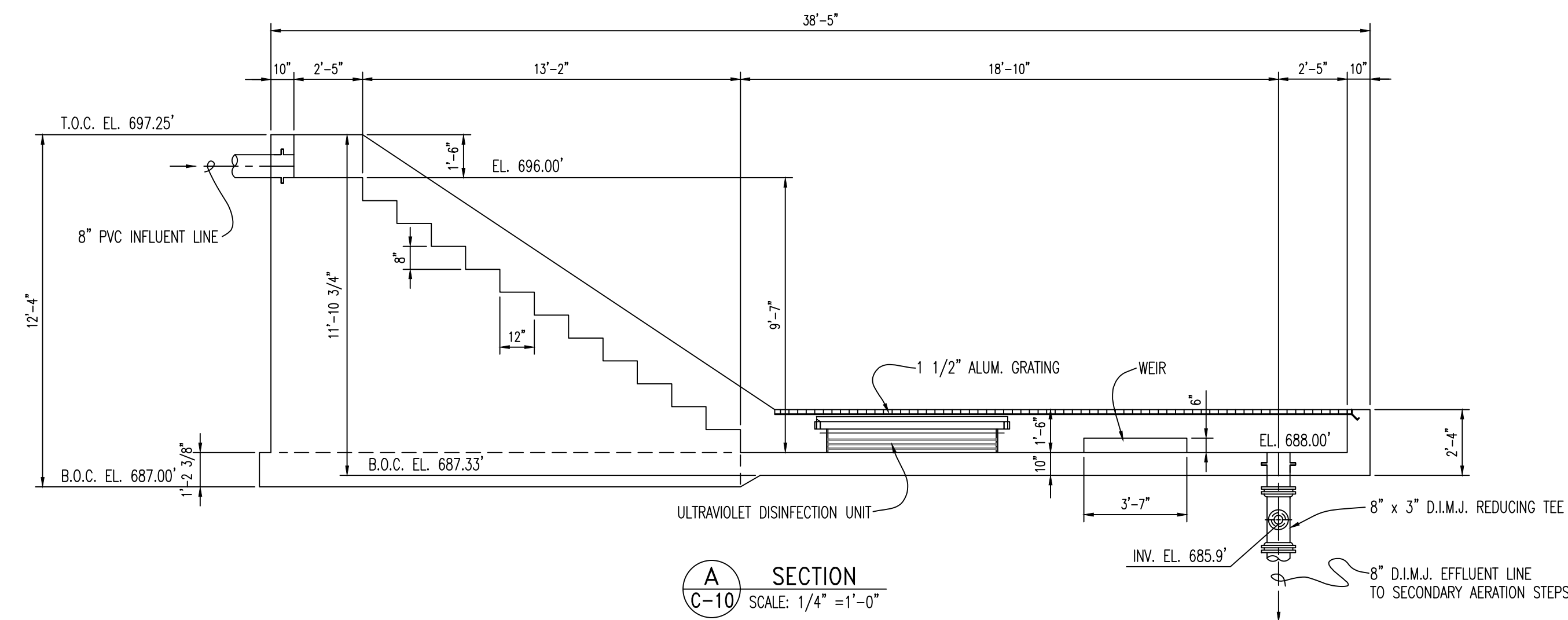
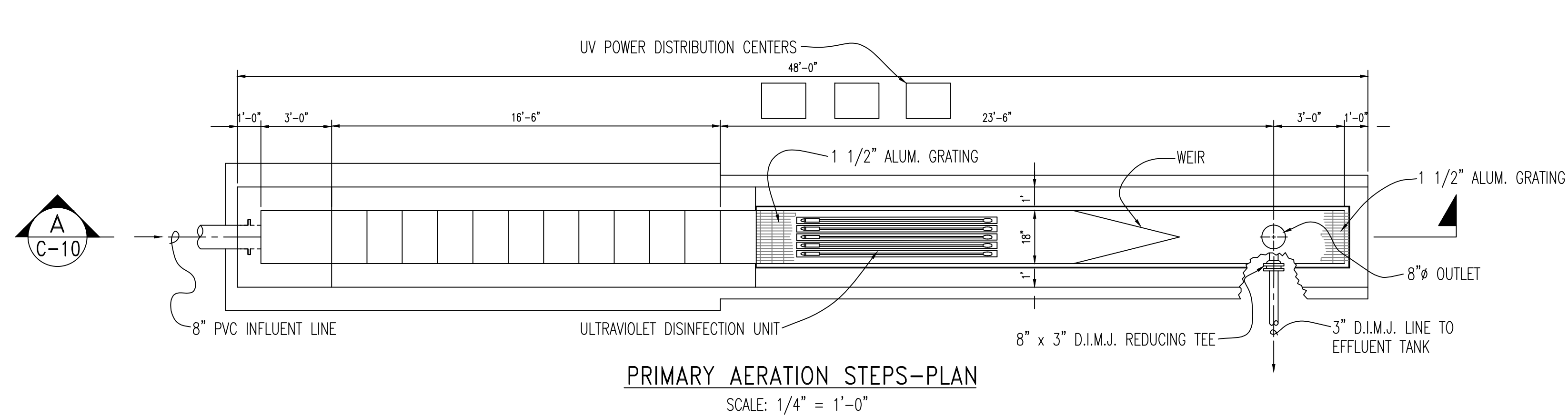
NOTE:

1. IT IS IMPORTANT THAT CONCRETE BASE DIMENSIONS ARE WITHIN $\pm 1/4$ " TOLERANCE.
FOR A CONTRACTOR TO MEET THIS TOLERANCE AERO-MOD WILL SUPPLY FORM ANCHOR BRACKETS AS PER SCOPE OF SERVICES.



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POWELLS VALLEY WATER DISTRICT
SLADE/NADA
EQWWTP
DISINFECTION & AERATION

PROJECT NO.	9524-06	DATE	BY
FILE NAME	SLADEUV.DWG	REVISION	
DESIGNED BY	M.S.E.		
DRAWN BY	G.A.C.		
CHECKED BY	S.T.		
REVIEWED BY			
DATE	AUGUST 2026		
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DRAWING NO.
D-5
SHEET OF

GENERAL NOTES

1. COORDINATE WITH CIVIL SITE PLAN.

SHEET NOTES

1. EXISTING PUMP STATION NO. 1 WITH CONTROL PANEL.

2. EXISTING YARD HYDRANT.

3. SANITARY SEWER FROM LAB TO EXIT BUILDING AT APPROXIMATELY THIS LOCATION. REFER TO FLOOR PLAN VIEW FOR EXACT LOCATION.

4. SANITARY SEWER FROM LAB BUILDING TO TIE INTO LINE TO INFLUENT WET WELL AT APPROXIMATELY THIS LOCATION.

5. PROVIDE 3/4" FROST PROOF YARD HYDRANT 'YH1'
- SUITABLE FOR POTABLE WATER (LEAD FREE). PROVIDE ADJACENT IN-GRADE DRIVE OVER RATED VALVE BOX WITH SHUT-OFF VALVE. REFER TO DETAIL.

6. EXTEND A 1" EFFLUENT COLD WATER LINE FROM EXISTING BLOWER BUILDING SERVICE LINE TO SITE AS SHOWN.

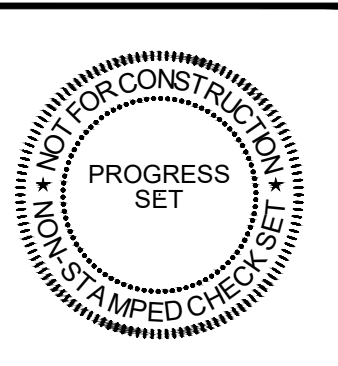
7. PROVIDE 1" EFFLUENT COLD WATER LINE TO NEW BLOWER BUILDING.

8. PROVIDE 1" EFFLUENT COLD WATER LINE TO NEW LAB BUILDING.



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Powell's Valley Water District

Slade/Nada Waste Water EQ Basin

Blower Building
Slade/Nada Interchange
Powell County, Kentucky



1 SITE PLAN - PLUMBING
1" = 15'-0"

PROJECT NO.	952414	DATE	REVISION	BY
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DRAWING NO.

SU-1

1. COORDINATE WITH CIVIL SITE PLAN.

1. COORDINATE WITH CIVIL SITE PLAN.

1. EXISTING UTILITY POLE.

- | | | | |
|--|---|---|---|
| 1. EXISTING UTILITY POLE. | 7. EXISTING PUMP STATION NO. 1. | FOOTPRINT. MODIFY/EXTEND EXISTING CIRCUITS AS NECESSARY. | DEDICATED 20A, 120V CIRCUIT FOR CONVENIENCE RECEPTACLE MOUNTED AT BASE OF POLE. |
| 2. EXISTING UNDERGROUND UTILITY PRIMARY. | 8. NEW UNDERGROUND UTILITY PRIMARY. | 14. PROVIDE CONDUIT PATHWAY AND CIRCUIT AS REQUIRED BETWEEN ELECTRONIC CONTROL VALVE AND WWTP BUILDING. | 18. NEW UNDERGROUND ELECTRICAL CIRCUIT TO U.V. DISINFECTION. |
| 3. EXISTING UTILITY TRANSFORMER ON CONCRETE PAD. | 9. NEW UTILITY TRANSFORMER ON CONCRETE PAD. | 15. EXISTING ELECTRICAL CONNECTION TO CHART RECORDER IN BLOWER BUILDING. | |
| 4. EXISTING UNDERGROUND UTILITY SECONDARY. | 10. NEW UNDERGROUND UTILITY SECONDARY. | 16. EXISTING ELECTRICAL OUTLET. | |
| 5. EXISTING EMERGENCY GENERATOR ON CONCRETE PAD. | 11. NEW EMERGENCY GENERATOR ON CONCRETE PAD. | 17. NEW UNDERGROUND ELECTRICAL CIRCUIT TO LIGHT FIXTURE SL1. ALL NEW LIGHT POLES SHALL HAVE | |
| 6. EXISTING BLOWER BUILDING. | 12. NEW BLOWER BUILDING. REFER TO SHEET E-1. | | |
| | 13. INTERCEPT EXISTING UNDERGROUND ELECTRIC CIRCUIT(S) AND RE-ROUTE AROUND NEW BUILDING | | |



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DRAWING NO.

SU-2



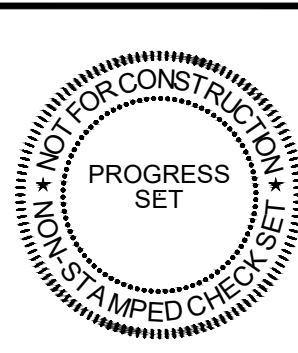
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1 SITE PLAN - ELECTRICAL
1" = 15'-0"



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Powell County, Kentucky

GENERAL NOTES

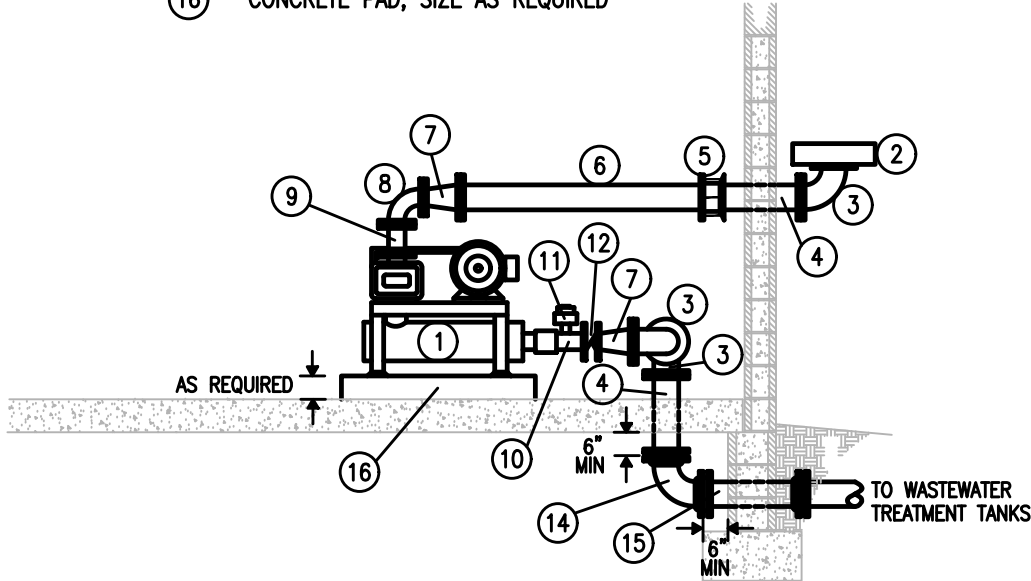
1. REFER TO SHEET P-0.
2. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P-0 FOR PIPE SIZES NOT SHOWN.
3. EACH PLUMBING FIXTURE SHALL HAVE ACCESSIBLE STOPS FOR EACH HOT/COLD WATER CONNECTION.
4. ALL WATER PIPING SHALL BE INSULATED WITH MINIMUM 1" INSULATION.
5. ENSURE DOMESTIC WATER PIPING IS MINIMUM 5' HORIZONTALLY FROM BUILDING SANITARY SEWER EXIT.

SHEET NOTES

1. REFER TO SITE PLAN ON SHEET SU-1 FOR CONTINUATION.
2. PROVIDE 16"x24" FLUSH METAL DOOR (ACUDOR DW-5040 OR EQUIVALENT) 48" AFF IN RESTROOM FOR ACCESS TO WATER SERVICE ENTRANCE DEVICES (PRESSURE REGULATOR, MAIN WATER SHUT OFF VALVE, ETC.). CONTRACTOR SHALL PROVIDE LAMACOID LABEL ON DOOR PANEL READING "WATER SERVICE ENTRANCE".
3. PROVIDE POINT OF USE WATER HEATER WALL MOUNTED ABOVE RESTROOM CEILING FOR FIXTURE HOT WATER SUPPLY. CONTRACTOR SHALL INSTALL WATER HEATER PER MANUFACTURERS INSTRUCTIONS AND LOCAL CODES. REFER TO WATER HEATER SCHEDULE ON SHEET P-0 FOR ADDITIONAL INFORMATION. IF SPACE ABOVE CEILING IS INACCESSIBLE, INSTALL MINIMUM 24"x24" ACCESS PANEL IN FRONT OF WATER HEATER.
4. PROVIDE 1/2"CW FROM TRAP PRIMER "TP-1" AT NEARBY SINK TO FLOOR DRAIN.
5. STUB UP COLD WATER INSIDE BUILDING ENVELOPE AND PROVIDE CONNECTION TO POLYMER FEEDER EQUIPMENT. INCLUDE GATE SHUT OFF VALVE AT INLET.
6. PROVIDE POLYMER SOLUTION DISCHARGE PIPING FROM POLYMER FEEDER EQUIPMENT, TURN DOWN INSIDE BUILDING ENVELOPE, AND ROUTE TO WASTE SLUDGE LINE.

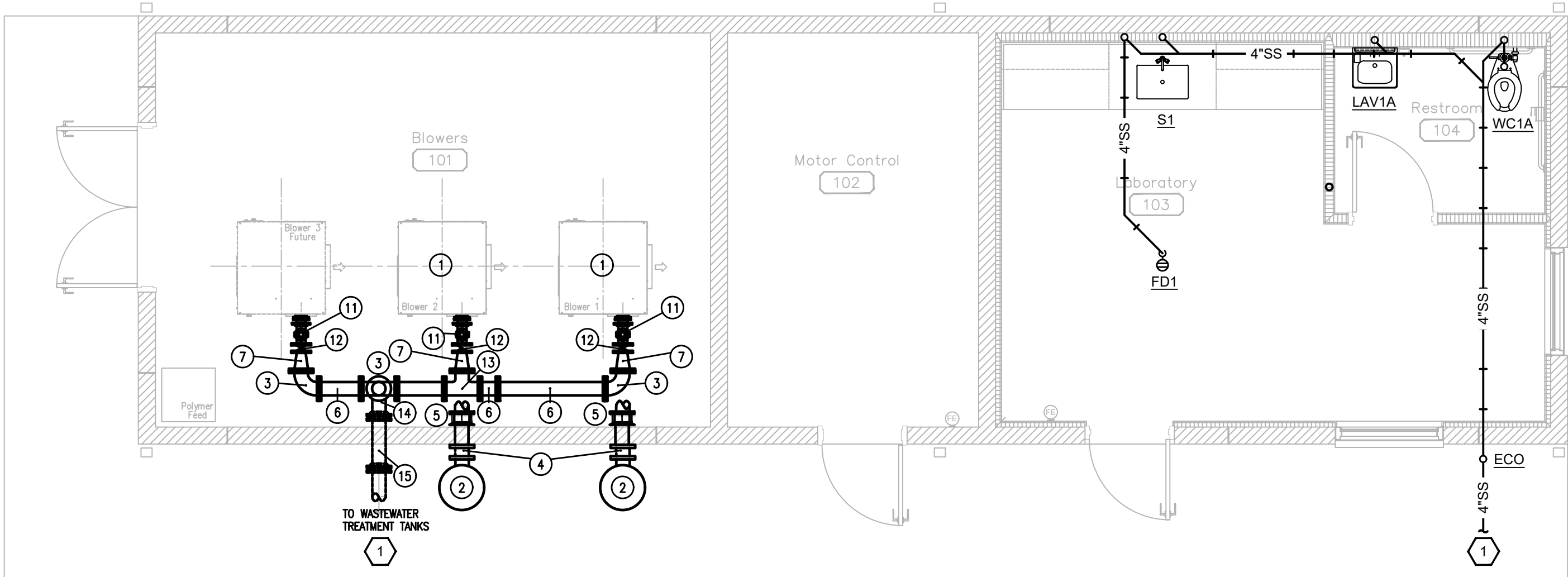
BLOWER EQUIPMENT & PIPING

- 1 BLOWER
- 2 AIR INTAKE FILTER AND FILTER SILENCER
- 3 6" D.I. FLG. 90° ELL
- 4 6" D.I. FLG. & P.E. SPOOL
- 5 6" FLG. COUPLING ADAPTER
- 6 6" D.I. FLG. SPOOL
- 7 6"x4" D.I. FLG. REDUCER
- 8 4" D.I. FLG. 90 ELL
- 9 4" D.I. FLG. SPOOL
- 10 4" D.I. FLG. & P.E. SPOOL, W/ 2" TAPPED HOLE
- 11 2" PRESSURE RELIEF VALVE
- 12 4" WAFER CHECK VALVE
- 13 6" D.I. FLG. TEE
- 14 6" D.I.M.J. 90° ELL
- 15 6" D.I.M.J. & P.E. SPOOL
- 16 CONCRETE PAD, SIZE AS REQUIRED



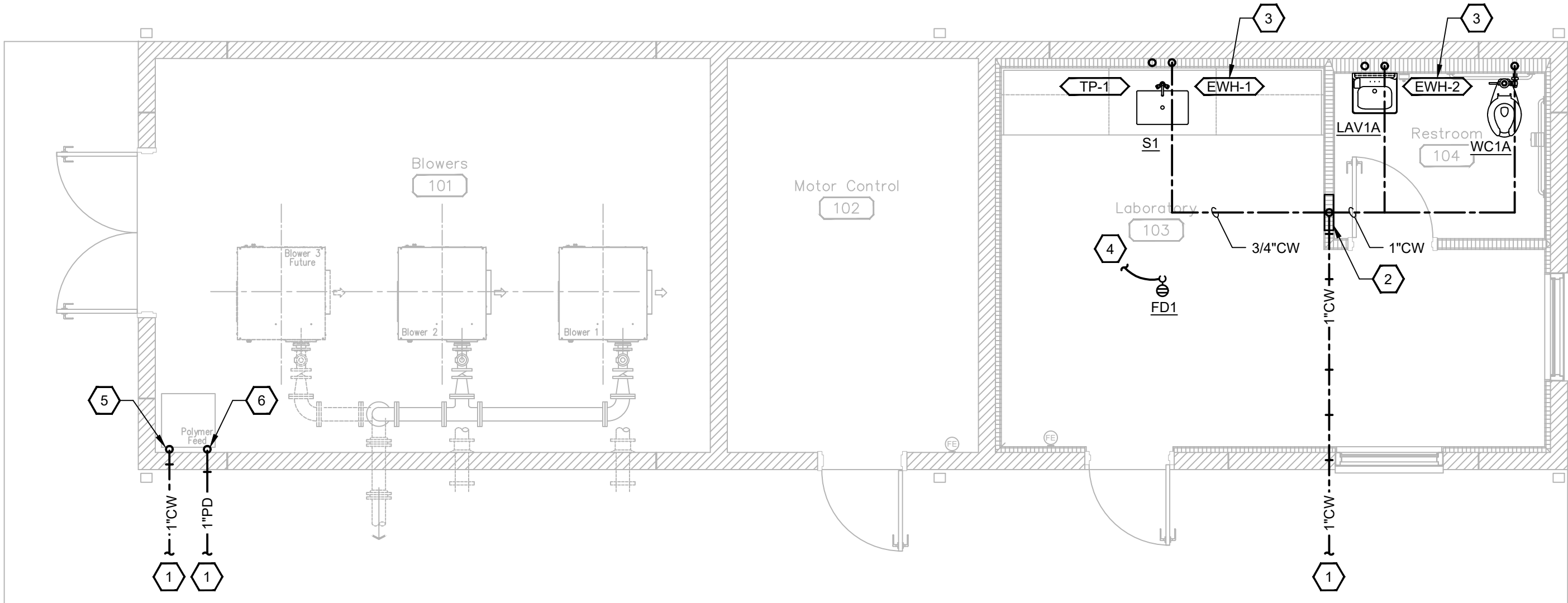
TYPICAL BLOWER DETAIL - ELEVATION

NTS



1 FLOOR PLAN - SANITARY SEWER

1/4" = 1'-0"



2 FLOOR PLAN - DOMESTIC WATER

1/4" = 1'-0"

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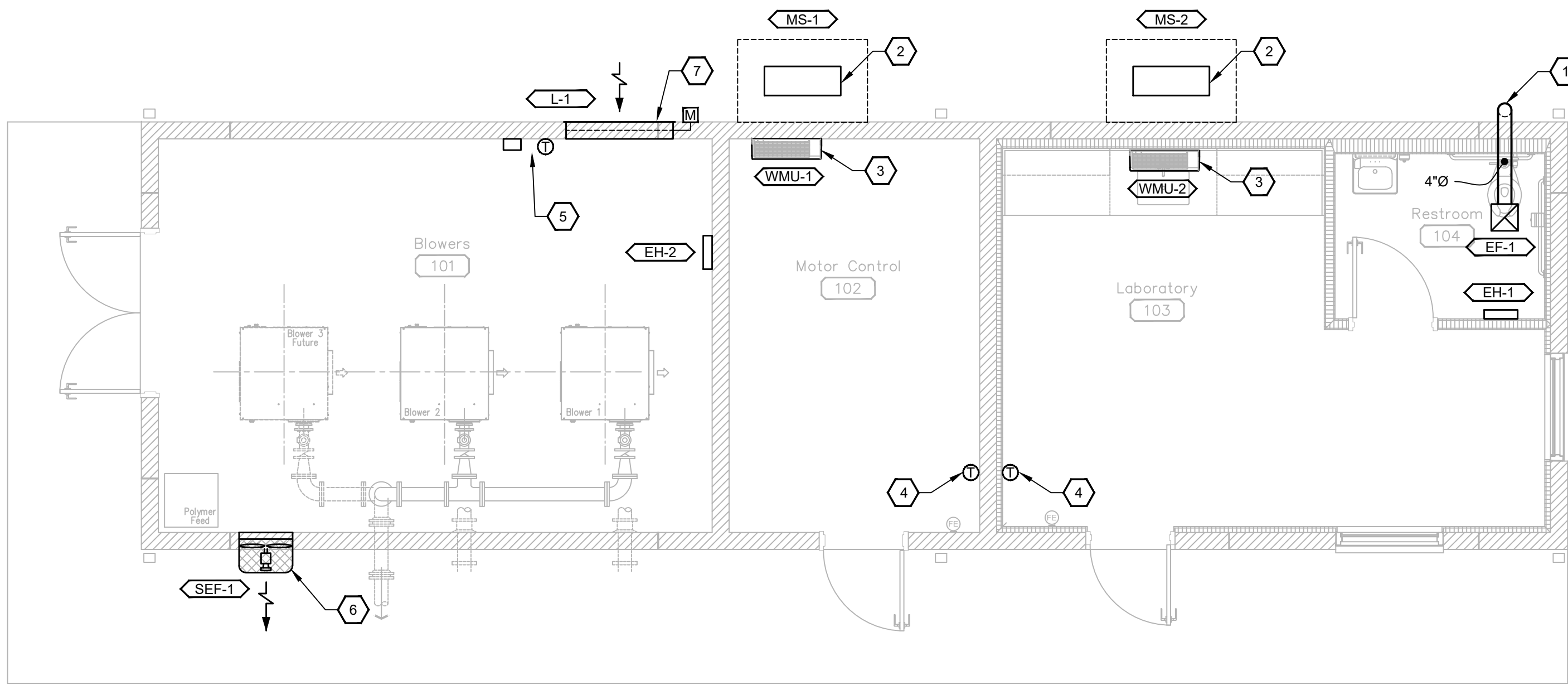
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P-1



1 FLOOR PLAN - HVAC
1/4" = 1'-0"



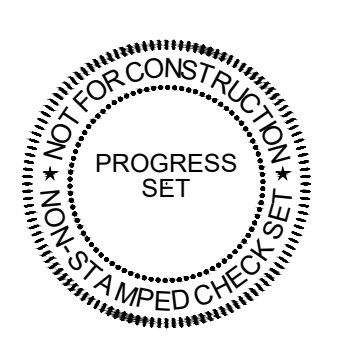
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GENERAL NOTES

- REFER TO SHEET M-0.
- EXTERIOR HVAC EQUIPMENT SHOWN SHALL BE LOCATED ON POURED CONCRETE PAD.
- COORDINATE ALL THERMOSTAT SET POINTS WITH OWNER.

SHEET NOTES

- PROVIDE 4" SOFFIT CAP WITH INSECT SCREEN, VERIFY COLOR TO MATCH BUILDING SOFFIT.
- INSTALL HEAT PUMP WITH MOUNTING BLOCKS ON POURED CONCRETE PAD.
- INSTALL WALL MOUNT UNIT AS HIGH AS POSSIBLE IN SPACE WHILE MAINTAINING MANUFACTURER'S REQUIRED CLEARANCES. ROUTE REFRIGERANT PIPING AND GRAVITY CONDENSATE PIPING ASSOCIATED WITH UNIT ON BUILDING FACADE IN CONCEALED CHASE/LINEHIDE COVERING. PAINT COVERING TO MATCH BUILDING.
- PROVIDE WALL MOUNTED THERMOSTAT 48" AFF. ROUTE CONTROL WIRING CONCEALED BACK TO UNIT.
- WALL MOUNTED HOA SWITCH SERVING SIDEWALL EXHAUST FAN AND ASSOCIATED INTAKE LOUVER BY ELECTRICAL CONTRACTOR. PROVIDE LINE VOLTAGE THERMOSTAT FOR AUTOMATIC OPERATION.
- PROVIDE SIDEWALL EXHAUST FAN MOUNTED 3' ABOVE FINISHED FLOOR TO BOTTOM OF UNIT. UNIT OPERATION SHALL BE INTERLOCKED WITH ASSOCIATED LOUVER IN SPACE AND SHALL BE CONTROLLED VIA WALL MOUNTED HOA SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR. REFER TO SCHEDULE ON SHEET M-0 FOR ADDITIONAL INFORMATION.
- PROVIDE INTAKE LOUVER WITH ELECTRONIC ACTUATOR MOUNTED 4' ABOVE FINISHED FLOOR TO BOTTOM OF UNIT. REFER TO SCHEDULE ON SHEET M-0 FOR ADDITIONAL INFORMATION.



Powell's Valley Water District

Slade/Nada Waste Water EQ Basin

Blower Building

Slade/Nada Interchange
Powell County, Kentucky

PROJECT NO.	952414
DESIGNED BY	CE
DRAWN BY	CE
CHECKED BY	CE
REVIEWED BY	CE
DATE	June 2026
SCALE	AS NOTED

mse
OF KENTUCKY, INC.
Engineers
Architects
Planners

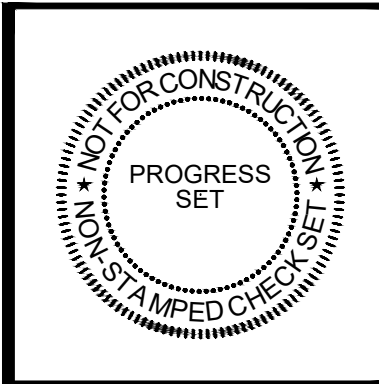
624 Wallington Way
Lexington, KY 40503
www.mselex.com
Phone: (859)223-5694
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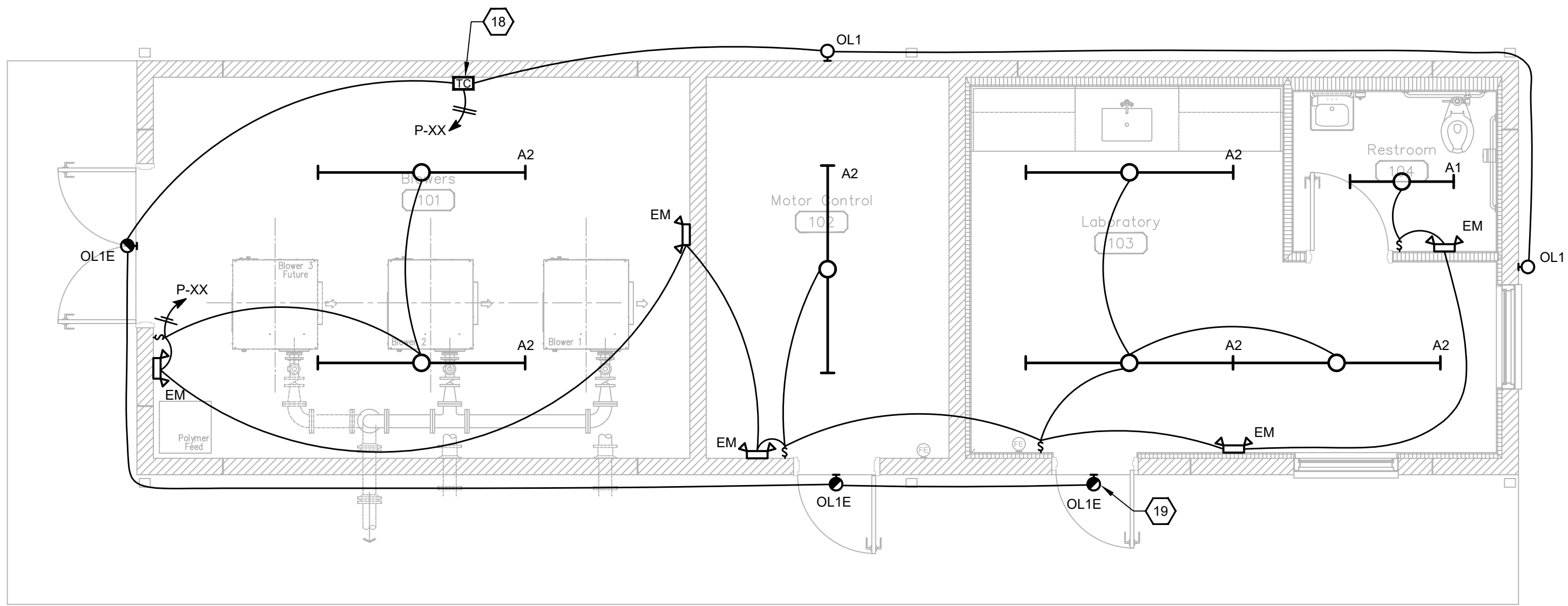
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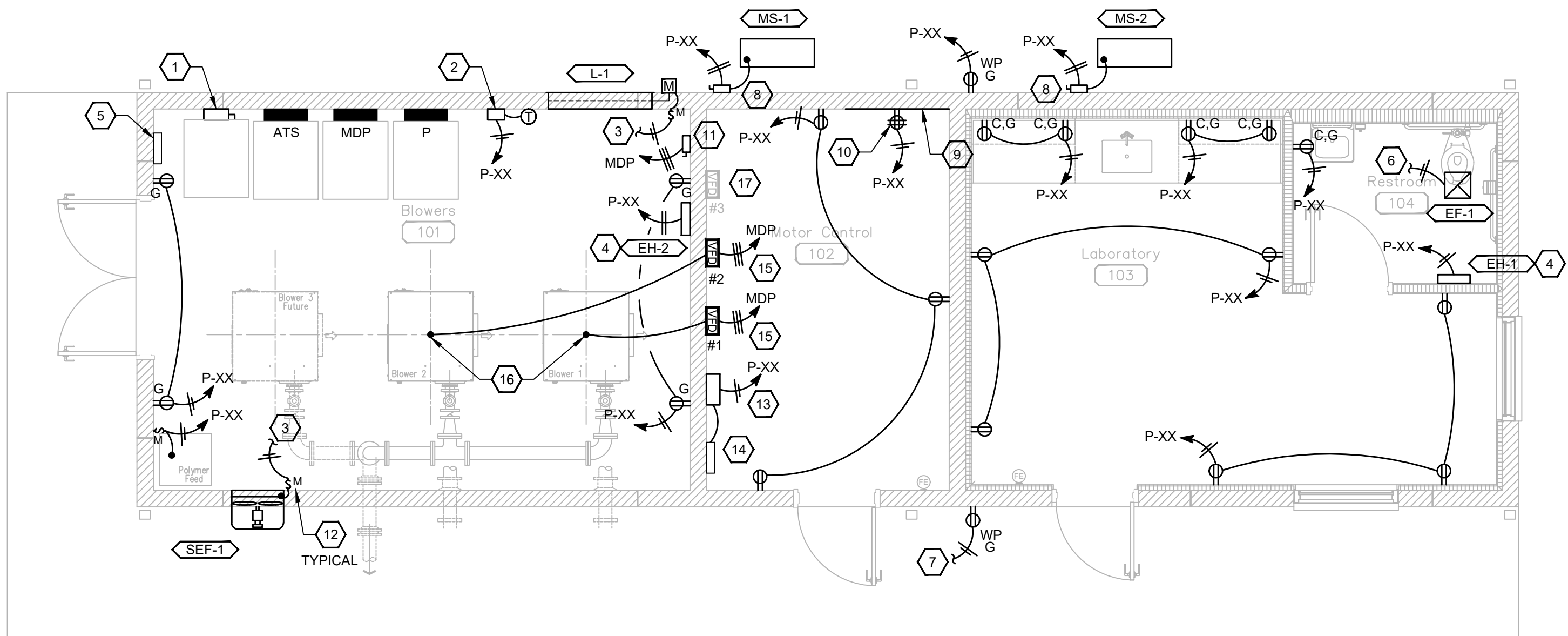
EPPERSON ENGINEERING
112 W. UNIVERSITY DR.
SOMERSET, KY 42503
EPPERSONENG.COM
1-800-802-7885



Powell's Valley Water District
Slade/Nada Waste Water EQ Basin
Blower Building
Slade/Nada Interchange
Powell County, Kentucky



1 FLOOR PLAN - LIGHTING
1/4" = 1'-0"



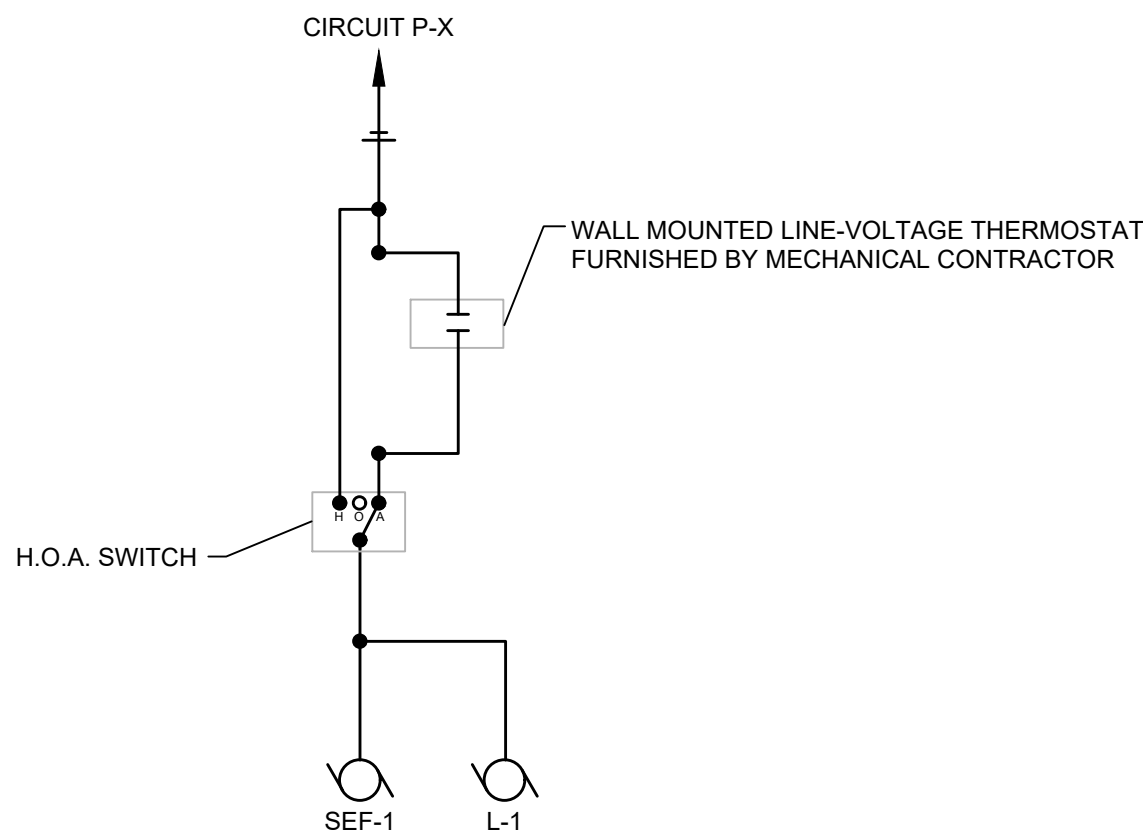
2 FLOOR PLAN - POWER & SYSTEMS
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET E-0.

SHEET NOTES

1. PROVIDE 400A/3P, NON-FUSED, SERVICE ENTRANCE RATED DISCONNECT SWITCH IN STAINLESS STEEL ENCLOSURE.
2. PROVIDE WALL MOUNTED HOA SWITCH IN STAINLESS STEEL ENCLOSURE FOR SIDEWALL EXHAUST FAN AND ASSOCIATED LOUVER CONTROL. REFER TO DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.
3. ROUTE CIRCUIT THROUGH HOA SWITCH, SEE NOTE 2.
4. PROVIDE CONNECTION TO SURFACE MOUNT ELECTRIC WALL HEATER, DISCONNECT SWITCH FURNISHED INTEGRAL TO UNIT.
5. PROVIDE CONNECTION TO CHART RECORDER, COORDINATE ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT INSTALLER.
6. PROVIDE CONNECTION TO CEILING MOUNTED EXHAUST FAN, DISCONNECT SWITCH FURNISHED INTEGRAL TO UNIT. FAN SHALL OPERATE WITH LIGHTS IN ROOM.
7. CONNECT TO EXTERIOR RECEPTACLE CIRCUIT P-XX.
8. PROVIDE 30A/2P, 240V NON-FUSED DISCONNECT SWITCH AND CONNECTION TO HEAT PUMP.
9. PROVIDE 4"x4" FIRE RATED MOUNTING PLYWOOD BACKBOARD FOR SERVICE ENTRANCE COMMUNICATION EQUIPMENT MOUNTED 3' ABOVE FINISHED FLOOR. TYPICAL.
10. PROVIDE DEDICATED CIRCUIT AND QUADRUPLEX RECEPTACLE FOR COMMUNICATION EQUIPMENT. TYPICAL.
11. PROVIDE DISCONNECT SWITCH AND CONNECTION TO AIR COMPRESSOR, FIELD VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER.
12. PROVIDE 20A/1P MOTOR RATED TOGGLE SWITCH AND CONNECTION TO EQUIPMENT. SWITCH SHALL BE MOUNTED WITHIN 5' OF UNIT POWER CONNECTION. TYPICAL.
13. PROVIDE DEDICATED CIRCUIT AND CONNECTION TO SQC PANEL.
14. PROVIDE CONNECTION TO DO ANALYZER FROM ADJACENT SQC PANEL. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONNECTIONS.
15. PROVIDE CONNECTION TO BLOWER VARIABLE VFD WITH 3ØX,1ØXG,X'C.
16. ROUTE POWER AND CONTROL WIRING FROM VFD TO BLOWER UNIT. COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT INSTALLER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONNECTIONS.
17. FUTURE VFD LOCATION FOR FUTURE BLOWER UNIT, SHOWN FOR REFERENCE ONLY.
18. PROVIDE TIME CLOCK ADJACENT TO PANEL "P" FOR CONTROL OF EXTERIOR LIGHT FIXTURES.
19. MOUNT EXTERIOR LIGHT FIXTURE ABOVE DOOR, REFER TO ARCHITCTURAL ELEVATIONS. ALL EXTERIOR LIGHT FIXTURES ON BUILDING SHALL BE MOUNTED AT SAME HEIGHT ABOVE FINISHED FLOOR.



SEF-1/L-1 CONTROL DETAIL
NOT TO SCALE

DATE	REVISION	BY

PROJECT NO. 952414

DESIGNED BY JE

DRAWN BY JE

CHECKED BY JE

REVIEWED BY JE

DATE June 2026

SCALE AS NOTED

DESIGN DOCUMENTS:

The design professional warrants any and all responsibility and liability for problems which arise from failure to follow these plans, specifications and the design intent they convey.

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BY	DATE	REVISION				

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PROJECT NO.	952414
DESIGNED BY	UNB
DRAWN BY	UNB
CHECKED BY	UNB
REVIEWED BY	Initials
DATE	June 2026
SCALE	AS NOTED

**Engineers
Architects
Planners**

OF KENTUCKY, INC.

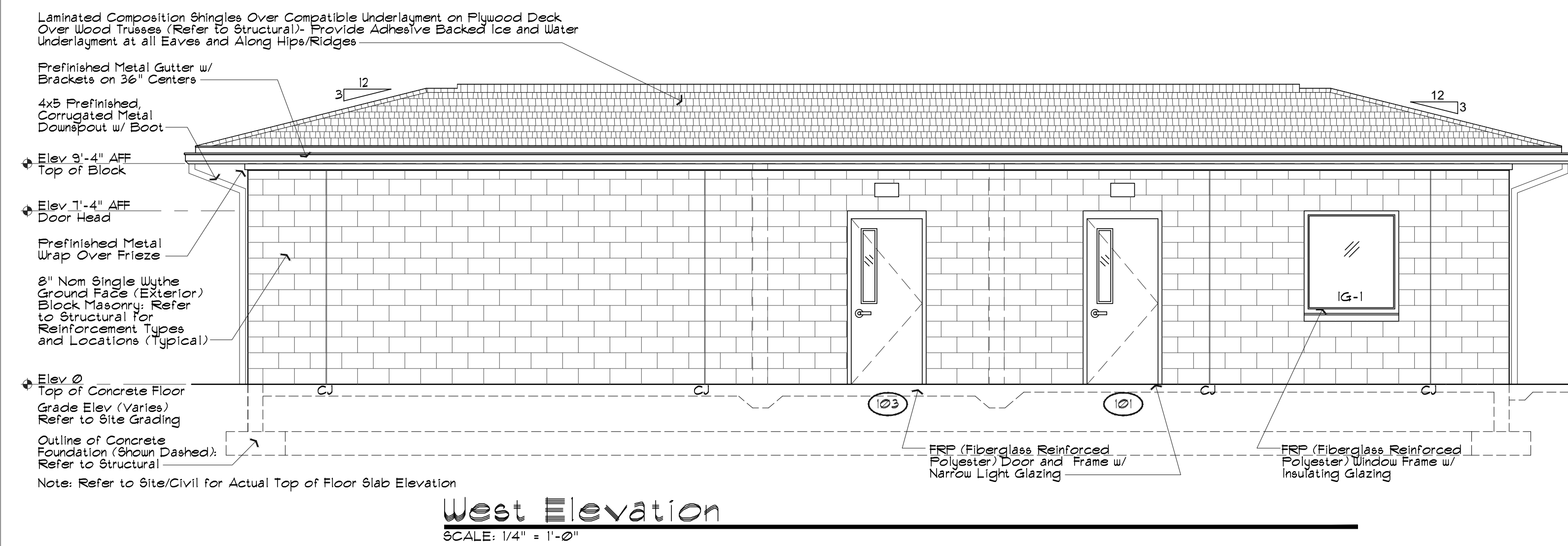
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DRAWING NO.

A-1

SHEET OF



STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL THE NEW STRUCTURE TO BE CONSTRUCTED IS ASSIGNED BY THE KENTUCKY BUILDING CODE, 2018 EDITION, TO SEISMIC USE GROUP AND SEISMIC DESIGN AS SPECIFIED AS SUCH, THE BUILDING CODE MANDATES SPECIAL INSPECTION (SECTION 1704.4, SPECIAL INSPECTIONS FOR SEISMIC DESIGN), SPECIAL INSPECTION FOR WIND RESISTANCE (SECTION 1705.12), STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE (SECTION 1704.6.1) AND STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS (SECTION 1704.6.2). STRUCTURAL QUALITY ASSURANCE PLAN SPECIFICALLY IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND SPECIAL INSPECTOR IN PERFORMING THE REQUIRED TESTING AND INSPECTION OF THE STRUCTURAL WORK. CONTRACTOR RESPONSIBILITIES In accordance with Section 1704.4 of the Building Code, the Contractor shall submit to the Architect a written statement of responsibility that contains the following: 1) Acknowledgment of awareness of the special requirements contained within this Structural Quality Assurance Plan. 2) Acknowledgment that control shall be exercised to obtain conformance with the construction documents approved by the Building Official. 3) Procedures for exercising control with the Contractor's organization, the method and frequency of reporting, and the distribution of reports. 4) Identification and qualifications of the person(s) exercising such control and their position(s) in the organization. The Structural Testing / Inspection Agency that is to act as the Special Inspector will be hired by the Owner. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents, and any additional or nonconformance and shall pay for any additional structural testing/inspection required for his convenience. The Contractor is responsible to ensure that the Special Inspector is present for all work and materials that are subject to inspection and testing. The Contractor shall be responsible without the Special Inspector being present is subject to being demolished and reconstructed. The Contractor has the following responsibilities to the Special Inspector: 1) Provide copy of Construction Documents to the Special Inspector. 2) Notify the Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests. 3) Cooperate with Special Inspector and provide access to work. 4) Provide samples of materials to be tested in required quantities. 5) Provide storage space for the Special Inspector's exclusive use, such as for storing and curing concrete testing samples. 6) Provide labor to assist the Special Inspector in performing tests/inspections. SOILS The Special Inspector shall perform the following: 1) Verify structural fill complies with specifications and the geotechnical report. 2) Observe proofrolling. 3) Perform field density tests to verify composition of structural fill. As a minimum, perform one test per fill for every 2500 square feet of fill placed. 4) Inspect footing trenches & ensure proper bearing conditions per geotechnical report and specifications. CAST-IN-PLACE CONCRETE The Contractor shall perform the following: 1. Establish concrete mix design proportions per ACI 318, Chapter 5, Submitt 5 copies (minimum) of the concrete mix designs. Include the following: a. Type and quantities of materials b. Temperature c. Air content d. Fresh unit weight e. Aggregate sieve analysis f. Design compressive strength g. Method of placement in structure h. Method of curing i. Seven-day and 28-day compressive strengths							
GENERAL NOTES: CONCRETE 1. All concrete shall conform and be designed, mixed, placed, tested, and cured in accordance with the provisions of the ACI Manual of Concrete Practice (current edition). Special care shall be taken in curing hours, stairs, walls, and other exposed surfaces in accordance with the specifications. 2. All concrete shall develop 3500 PSI compressive strength in 28 days. 3. Dropping the concrete in excess of 10 feet, depositing in a large quantity at any point during placement, or separation of the aggregates will not be permitted. REINFORCEMENT STEEL 4. Reinforcement steel shall have a minimum yield strength of 60,000 PSI and conform with standard practice, Concrete Reinforcing Steel Institute. 5. Welded wire fabric shall conform to ASTM A193. 6. All rebar shall be specially tied and held in place with a minimum concrete protection cover of 2" of steel as follows:<table><tr><td>Walls, Columns, Beams, and Pilasters</td><td>1 1/2"</td></tr><tr><td>Slabs</td><td>3/4"</td></tr><tr><td>Footings</td><td>3"</td></tr></table> 7. Reinforcing steel bars shall be made as per diagram, and/or in accordance with A.C.I. Code. 8. Lap all splices as specifically called for, but at least 38 bar diameters for bars less than or equal to #6, and 48 bar diameters, for bars greater than #6. (Always 12 in. of 48 bar diameters. Lap all splices in masonry reinforcement a minimum of 48 bar diameters.		Walls, Columns, Beams, and Pilasters	1 1/2"	Slabs	3/4"	Footings	3"
Walls, Columns, Beams, and Pilasters	1 1/2"						
Slabs	3/4"						
Footings	3"						
2. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the specified ASTM and ACI standards. 3. Submit certification that the ready-mixed concrete plant complies with the requirements of the National Ready Mix Concrete Association. The Special Inspector shall perform the following: 1. Verify quantity, location, and placement of reinforcing steel prior to concrete placement. 2. Examine concrete in truck to verify that concrete appears properly mixed. 3. Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after 90 min. of placement. 4. Mold four specimens per set for compressive strength testing: one set for each 50 cubic yards (or portion thereof) of each mix design in any one day. For each set of molds, record: a. Slump b. Air content c. Temperature, ambient and concrete d. Location of placement e. Location of placement 5. If any pertinent information, such as addition of water, addition of admixtures, etc., perform one 7-day and two 28-day compressive strength tests. (Use one set a spare to be broken as directed by the Structural Engineer if compressive strengths do not appear adequate). 6. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, concrete design compressive strength, location of test, and date of test. Reports shall also include mix proportions and materials, compressive breaking strength and type of break. WOOD CONSTRUCTION Special Inspector shall perform the following: 1) Check all wood framing layout and confirm compliance with plans, specs, and shop drawings. 2) Inspect layout, truss layout and anchorage and confirm compliance with plans, specs, and shop drawings. 3) Inspect layout of roof sheathing attachments and confirm compliance with plans, specs, and shop drawings. CONCRETE MASONRY Contractor shall perform the following: 1. Submit a certification from each manufacturer or supplier stating that the following materials comply with the specified ASTM or ACI Standards: a. Concrete masonry units b. Mortar materials: Portland cement, hydrated lime, and aggregates. c. Grout materials: Portland cement and aggregates. d. Joint reinforcing steel. 2. For reinforcing steel used in concrete masonry walls, submit certified mill test reports. Special Inspector shall perform the following: 1. Verify compressive strength of concrete masonry units, mortar, and coarse grout for every 5,000 sq. ft. of surface area (or portion thereof) as follows: a. Proportions of site-prepared mortar or grout. b. Construction of mortar joints. c. Quantity, size, location, and support of reinforcing steel. d. Quantity, size, location, and support of horizontal joint reinforcement. e. Type, size and location of anchors. f. Protection of masonry during cold or hot weather. 2. Provide continuous inspection to verify compliance of the following: a. Placement of grout in reinforced cells. b. Preparation of required grout and mortar specimens. c. Welding of reinforcing bars. d. Provide periodic inspection to verify compliance of the following: a. Proportions of site-prepared mortar or grout. b. Construction of mortar joints. c. Quantity, size, location, and support of reinforcing steel. d. Quantity, size, location, and support of horizontal joint reinforcement. e. Type, size and location of anchors. f. Protection of masonry during cold or hot weather.							
FOUNDATION DESIGN 12. Foundations were designed using a maximum earth bearing pressure of 1,500 PSF. This value shall be field verified by the Special Inspector. SHALLOW FOUNDATIONS ON SOIL 13. Any soils can lose strength if they become wet, so the foundation sub grades must be protected from exposure to weather conditions. Construction shall follow procedures, a. "Lean" concrete must not cover the bearing areas. The concrete should be at least 4 inches thick. Fragible fill concrete or low-strength concrete is suitable for this cover, as conditions allow. b. Disturbed soil must be removed prior to foundation concrete placement. c. Foundation bearing conditions must be verified field. d. Foundation must be constructed by excavation operations must be rescheduled prior to reinforcing. e. Loose soil, debris, and excess surface water must be removed from the bearing surface prior to concrete placement. f. The Special Inspector shall observe all foundation excavations and provide protection to prevent any unauthorized access to the excavation. g. The relations of foundation to existing utilities (left or right of center) shall be checked by means of portable dynamic cone penetration (DCP) testing at the direction of the special inspector. GRADE SUPPORTED FLOOR SLABS 14. The following features are required as part of grade support slab construction: A. Keep the finished stone moist, but not wet, immediately prior to slab concrete placement to minimize curing of the slab due to differential curing conditions between the top and bottom of the slab. B. The Special Inspector shall review the actual subgrade conditions prior to slab construction and to make recommendations for any unsuitable conditions encountered. C. Sub subgrade conditions are also considered earthwork areas; thus, the recommendations contained in the Earthwork section of the report apply.							
TRUSS NOTES: 1. Lumber Specifications: Top and bottom chords to be No. 2 (2x4 minimum) Web members to be No. 2 Southern Pine minimum. (2x4 minimum) 2. Provide 2x4 cross bracing or bridging at all 1/3 points of the truss span for the bottom chord and 1/3 points for the top chord. All shall conform to the Truss Plate Institute HIB-(latest edition). 3. The erection and handling of the wood trusses must follow the Truss Plate Institute HIB-(latest edition). 4. Truss gusset plates shall be steel, either rolled or press-fit, complying with the standards of the Truss Plate Institute HIB-(latest edition). 5. The structural design of the wood trusses shall be based on the design loads shown. Should truss design or design loads vary from that shown, comply with local design loads. The Contractor shall submit truss shop drawings, including a detailed truss layout, to the Structural Engineer, for review. SPECIAL INSPECTOR RESPONSIBILITIES The Special Inspector shall maintain records of inspections in accordance with Section 1704.4.2 and shall distribute these records to the Architect and Structural Engineer on a weekly basis. At the conclusion of the project, the Special Inspector shall submit a final report, including a written statement that the special inspections during construction have complied with this Structural Quality Assurance Plan and that any discrepancies noted during construction have been corrected.							

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KENTUCKY BUILDING CODE

SECTION	ITEM	REQUIRED?	REMARKS
1704.2.5	FABRICATIONS	YES, NO	
1704.6.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	X	FABRICATION OF WOOD TRUSSES PER SECTION 1704.2.5 SEISMIC DESIGN CATEGORY "B"
1704.6.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	X	V _{max} = 89mph. PER ASC 360 & TABLE 1705.2.2
1705.2	STEEL	X	
1705.3	CONCRETE	X	
1705.4	MASONRY	X	
1705.5	WOOD	X	PER SECTION 1704.2.5 PER TABLE 1705.6
1705.6	SOILS	X	
1705.7	DAMEN DEEP FOUNDATIONS	X	
1705.8	CAST IN PLACE DEEP FOUNDATIONS	X	
1705.9	HELICAL PILE FOUNDATIONS	X	NONE
1705.11.1	WIND - STRUCTURAL WOOD	X	V _{max} = 89mph.
1705.11.2	WIND - COLD FORMED STEEL FRAMING	X	
1705.11.3	WIND - WIND RESISTING COMPONENTS	X	NONE
1705.12.1	SEISMIC - STRUCTURAL STEEL	X	SEISMIC DESIGN CATEGORY "B"
1705.12.2	SEISMIC - STRUCTURAL WOOD	X	PER SECTION 1705.11.2
1705.12.3	SEISMIC - COLD FORMED STEEL FRAMING	X	NONE
1705.12.4	DESIGNATED SEISMIC SYSTEMS	X	NONE
1705.12.5	SEISMIC - ARCHITECTURAL COMPONENTS - INTERIOR/EXTERIOR NON-LOAD BEARING WALLS AND VENEER IN STRUCTURES	X	SEISMIC DESIGN CATEGORY "B"
1705.12.6	SEISMIC - MECHANICAL AND ELECTRICAL COMPONENTS	X	SEISMIC DESIGN CATEGORY "B"
1705.12.7	SEISMIC - STORAGE RACKS AND ACCESS FLOORS	X	NONE
1705.14	SPRAYED FIREPROOFING	X	NONE
1705.15	FIREPROOFING	X	NONE
1705.16	E.L.F.S.	X	NONE
1705.17	FIRE RESISTANT PENETRATIONS & JOINTS	X	NONE
1705.18	SMOKE CONTROL	X	NONE

EARTHQUAKE DESIGN DATA

RISK CATEGORY	II
IMPORTANCE FACTOR	1.00
S _s	0.25
S ₁	0.02
SITE CLASS	C
S _a	0.17
S _{1a}	0.081
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC-FORCE RESISTING SYSTEM	GRANULAR REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR	0.0784W
SEISMIC RESPONSE COEFFICIENT (C _s)	0.0784
RESPONSE MODIFICATION FACTOR	2
ANALYSIS PROCEDURE	ELP

SNOW DESIGN DATA

GROUND SNOW LOAD (P _g)	15 PSF
ROOF SNOW LOAD (P _s)	15 PSF
IMPORTANCE FACTOR (I _s)	1.0
THERMAL FACTOR (C _t)	1.1
SNOW EXPOSURE FACTOR (C _e)	0.9

DESIGN LIVE LOADS

ROOF	20 PSF
------	--------

WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (V _{ult})	115 MPH	
NOMINAL DESIGN WIND SPEED (V _{ref})	89 MPH	
RISK CATEGORY	II	
WIND EXPOSURE CATEGORY	B	
INTERNAL PRESSURE COEFFICIENT	+/- 0.18	
COMPONENTS AND CLADDING [H=30 FT]		
ROOF 0 TO 7 DEGREES	EXPOSURE B (PSF)	EXPOSURE C (PSF)
INTERIOR ZONE	9.7 -23.8	13.5 -33.3
END ZONE	9.7 -39.9	13.5 -55.8
CORNER ZONE	9.7 -60.1	13.5 -64.1
ROOF 37 TO 27 DEGREES		
INTERIOR ZONE	13.7 -21.8	19.1 -30.5
END ZONE	13.7 -37.9	19.1 -50.0
CORNER ZONE	13.7 -56.0	19.1 -78.4
INTERIOR ZONE	21.8 -23.8	30.5 -33.3
END ZONE	21.8 -27.8	30.5 -38.9
CORNER ZONE	21.8 -27.8	30.5 -38.9
WALLS		
INTERIOR ZONE	23.8 -25.8	33.3 -36.1
END ZONE	23.8 -31.9	33.3 -44.6

- 4.3 Roof Details: APA rated sheathing, Plywood or OSB
- a. Roofs shall have a Slope Rating of 24 and Exposure 1.
 - b. Poles shall be placed with the Strength Axis perpendicular to the supports and shall be a minimum of 24" wide and continuous over at least 2 supports.
 - c. Roof poles shall be both gird (exterior girts) and nailed.
 - d. Long panel edges shall be supported with Edge Clips, one located 1/8" gip at panel midline between each support. There shall be an edges and ends.
 - e. OSB panels shall be installed with textured side up.
5. Wood Shear walls
- 5.1 Shear walls shall be constructed with APA 7/16" Douglas Fir-Larch or Southern Pine structural panels. Poles shall be oriented with the long dimension in the vertical direction. Oriented strand board (OSB) may be used in lieu of plywood. OSB panels shall be APA rated and shall comply with Product Standard PS-2.
 - 5.2 Solid 2x blocking shall be provided at unsupported, horizontal panel edges.
 - 5.3 See shear wall schedule for nailing requirements.
 - 5.4 Double 2x framing studs shall be used at the ends of each shear wall, UNO.
- 5.4 Double 2x framing studs shall be used at the ends of each shear wall, UNO.

SHOP-FABRICATED WOOD TRUSSES

 1. Design of wood trusses and their connections shall be the sole responsibility of the Contractor. Design and shop drawings submitted shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the project state.
 2. Wood trusses shall be designed for the following superimposed loads:

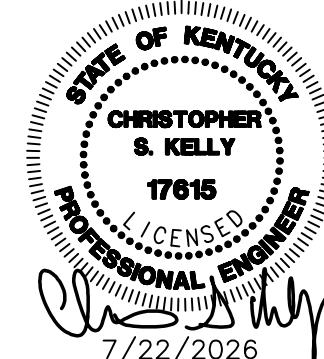
Roof Trusses:	Dead 10 psf	Wind Load: per ABC
Top Chord:	Live 20 psf	Wind Load: per KBC
Bottom Chord:	Dead 5 psf	
	Live 5 psf	

MASONRY CONSTRUCTION

 1. No chases, recess, conduits, or tooling of masonry shall occur in masonry walls within 18 inch lap splices in reinforcing to be 48 bar diameters.
 2. Lap splices in reinforcing to be 48 bar diameters.

POAGE ENGINEERS & ASSOCIATES

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Powell's Valley Water District

Slade/Nada Waste Water Treament Facility

Blower Building
Slade/Nada Interchange
Powell County, Kentucky

PROJECT NO.	452414
DESIGNED BY	
DRAWN BY	SRF(p26043)
CHECKED BY	CSK
REVIEWED BY	
DATE	July 22, 2026
SCALE	AS NOTED

DESIGN DOCUMENTS

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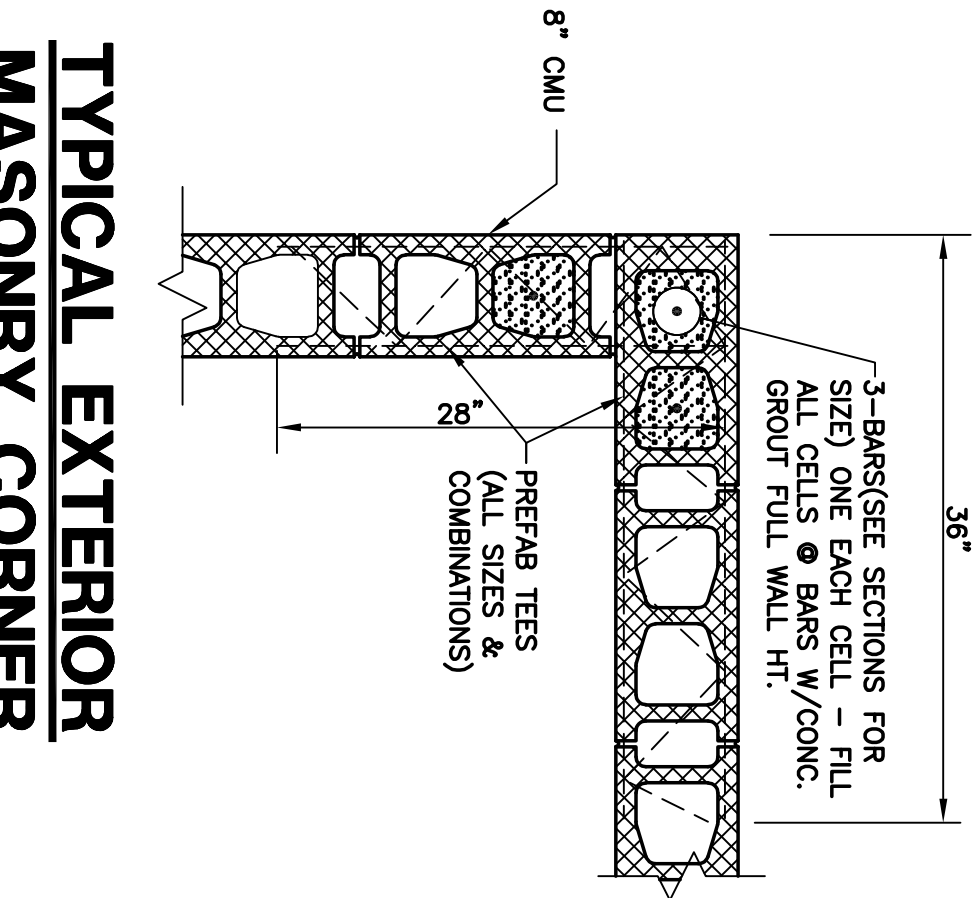
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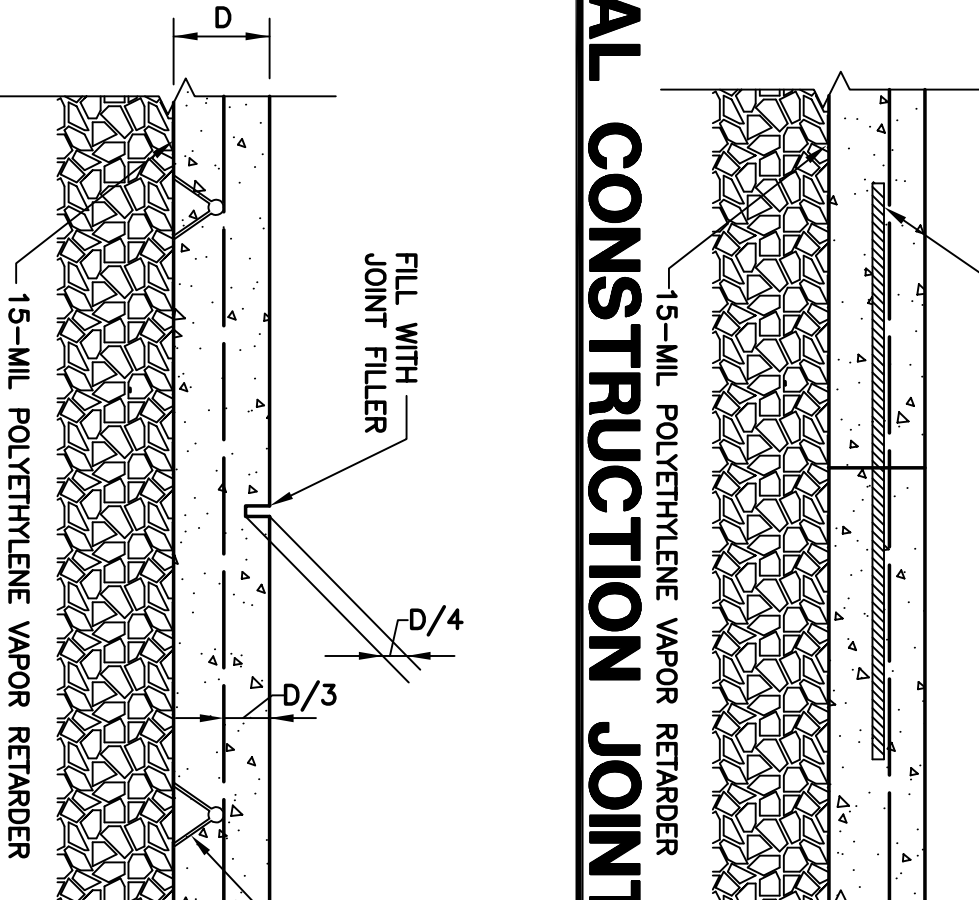
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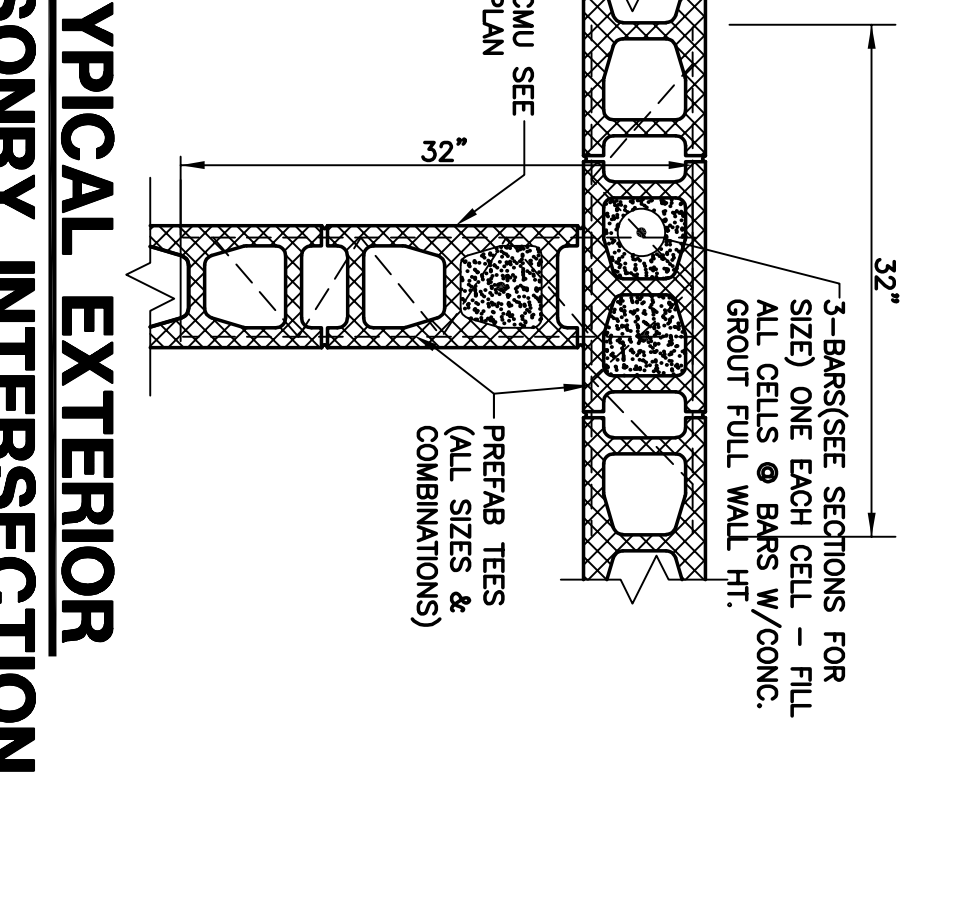
TYPICAL EXTERIOR
MASONRY CORNER
REINFORCEMENT DETAIL



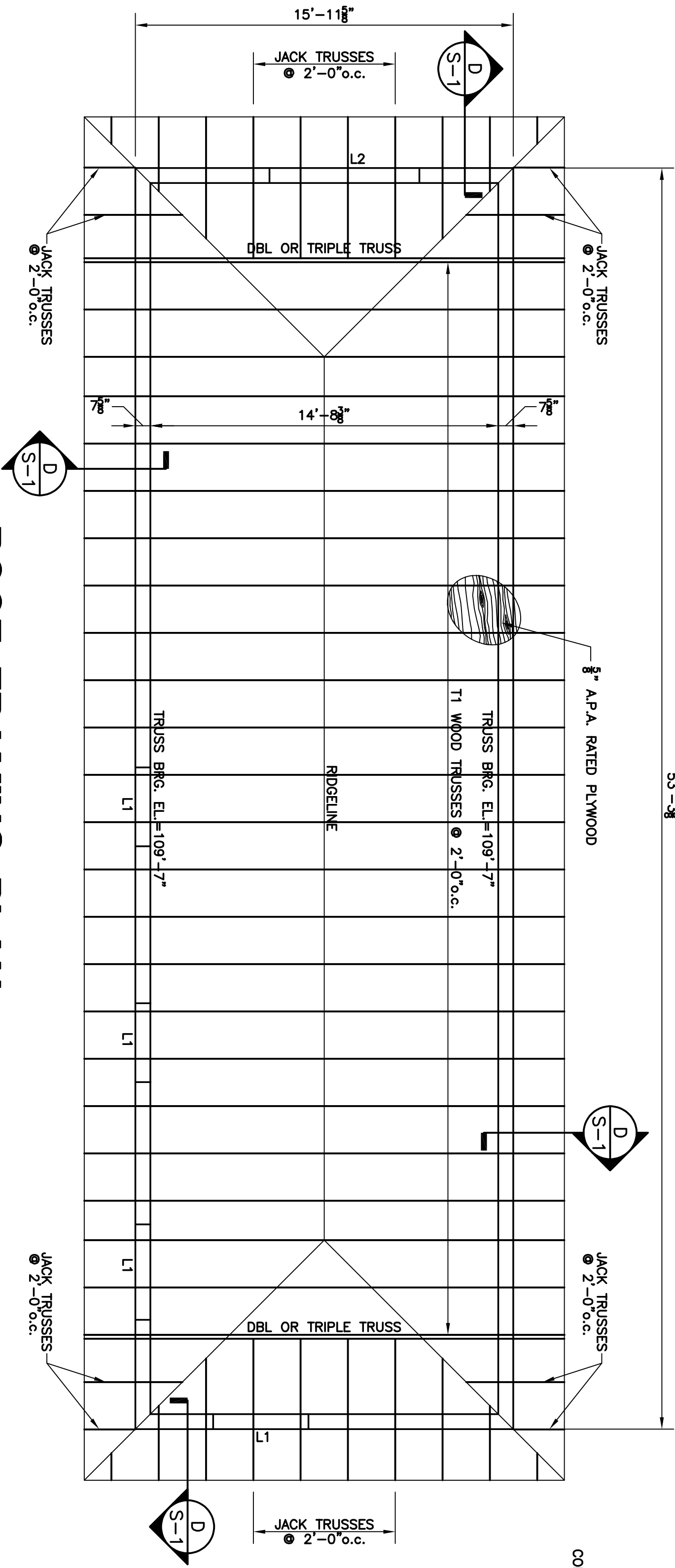
TYPICAL CONTROL JOINT DETAIL



TYPICAL EXTERIOR
MASONRY INTERSECTION
REINFORCEMENT DETAIL

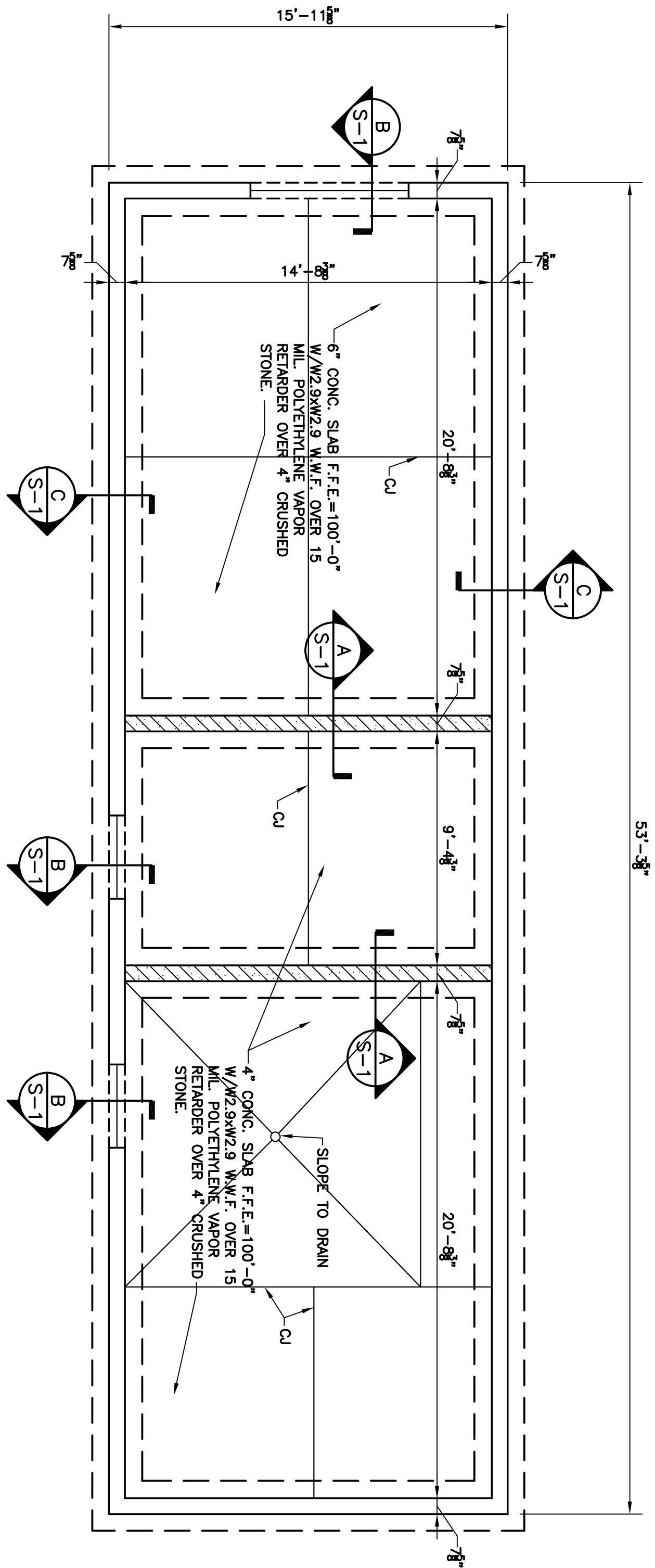


ROOF FRAMING PLAN

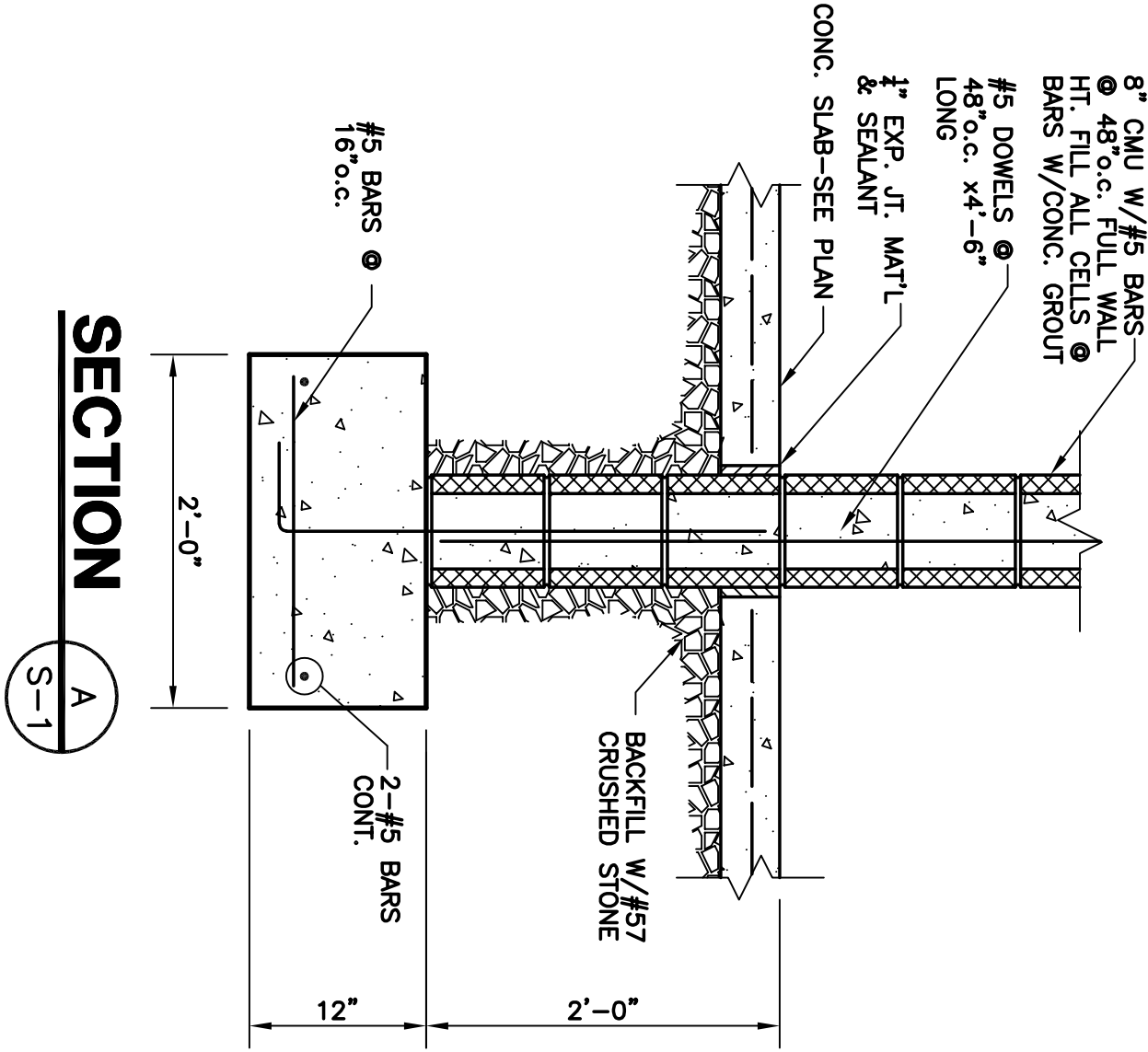


- NOTES:
- 1) ALL ROOF SHEATHING SHALL BE 8" SQUARE EDGE W/H-CLIPS. EXTERIOR SHEATHING ATTACHED W/8d NAILS @ 6"o.c. ALL EDGES AND 12" (MAX.) AT INTERMEDIATE SUPPORTS

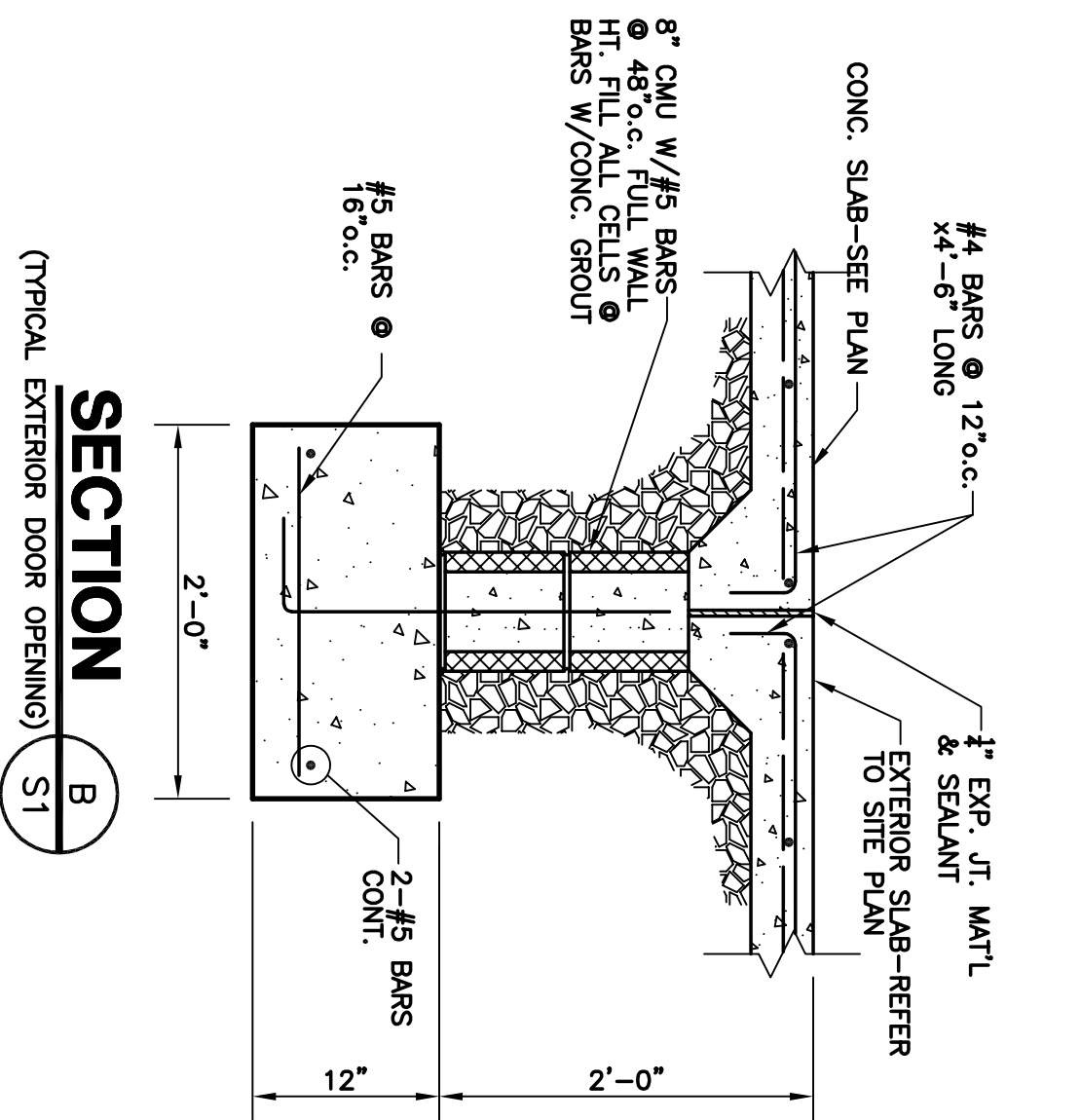
FOUNDATION PLAN



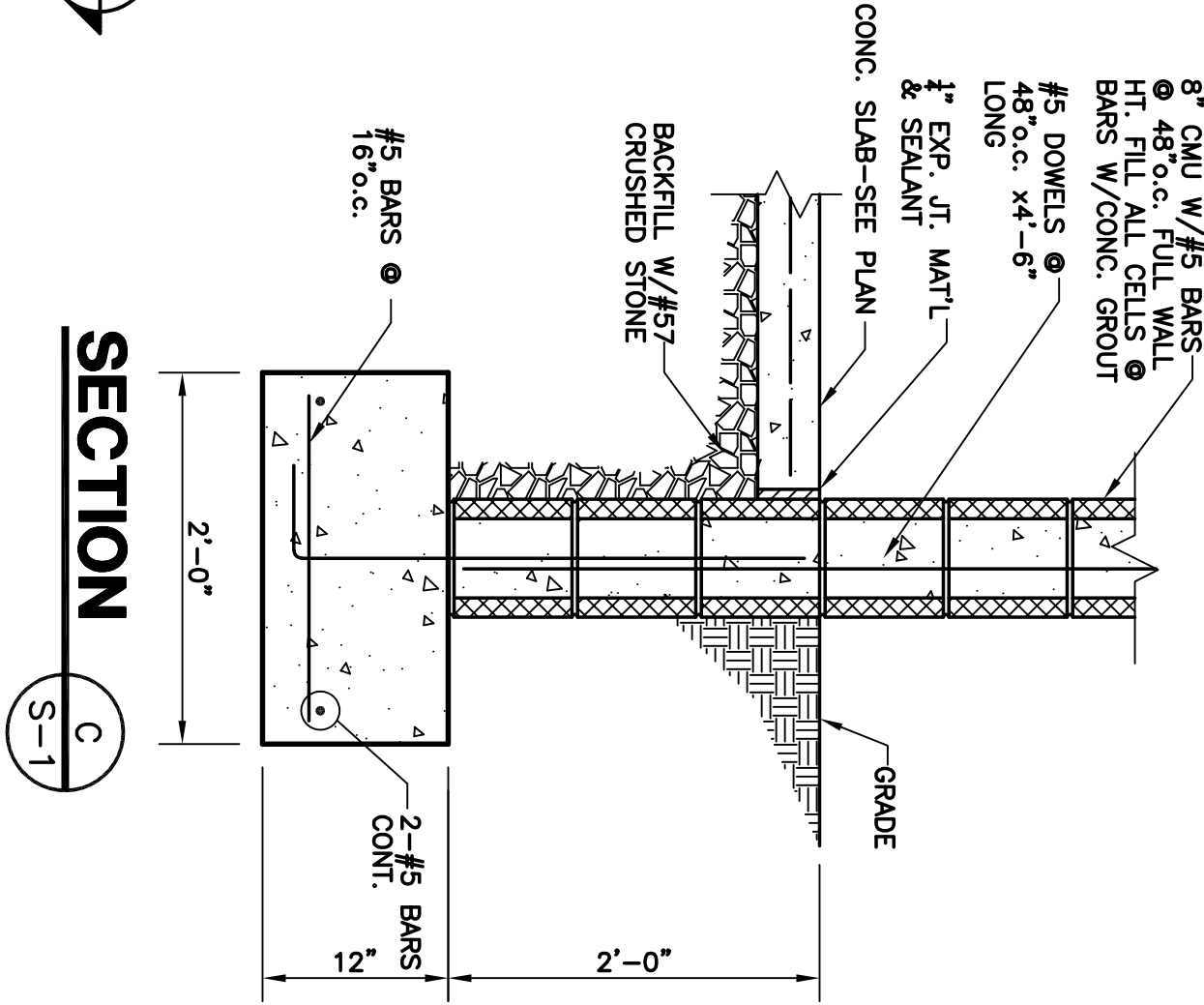
SECTION



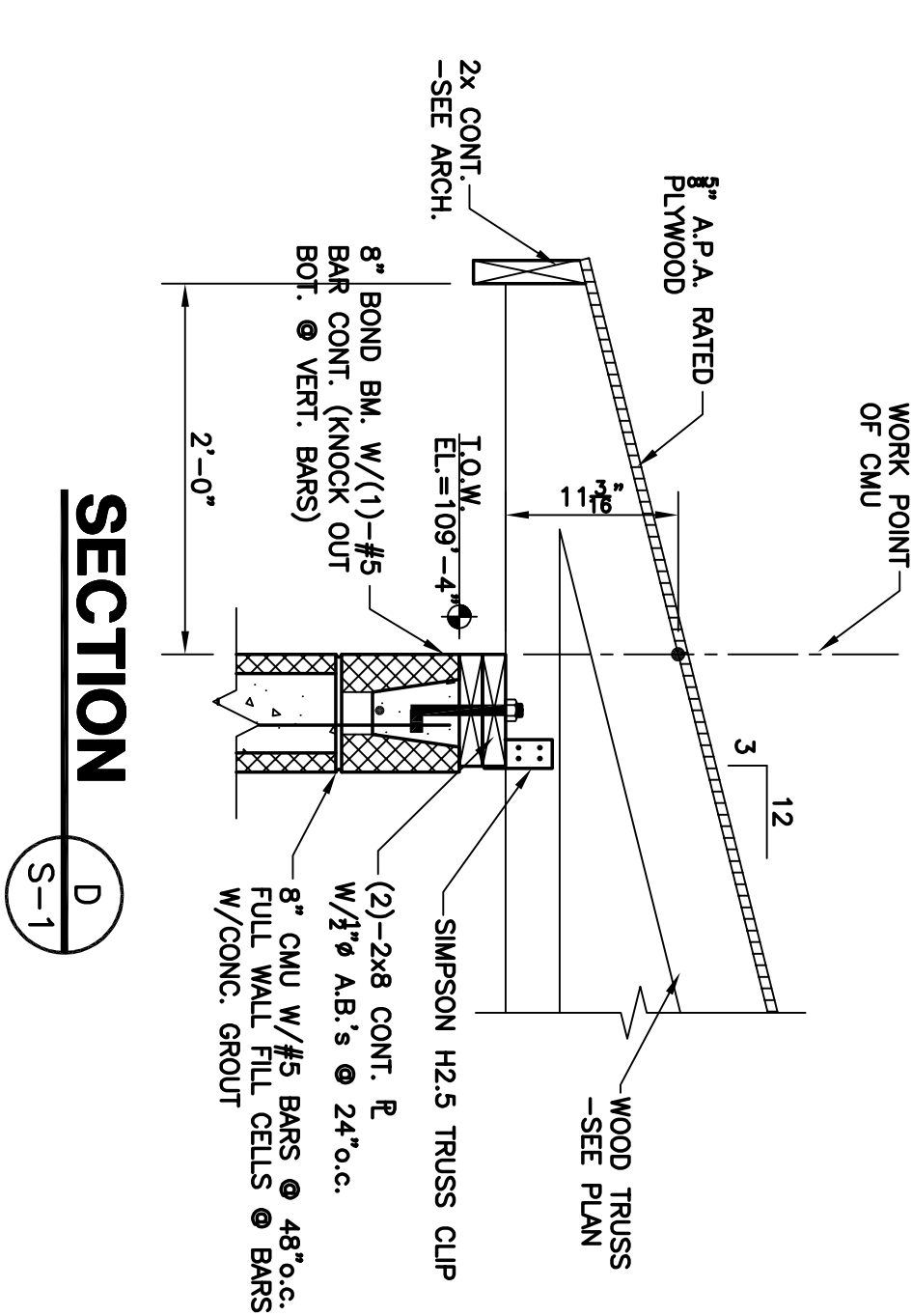
SECTION



SECTION



SECTION

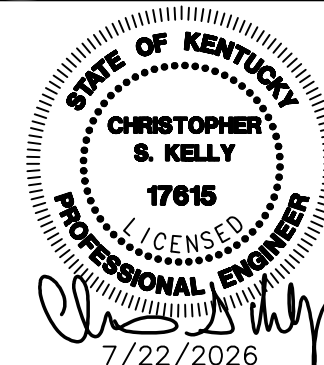


- NOTES:
- 1) DATUM ELEVATION = 100'-0" ASSUMED.
 - 2) FILL ALL CMU CELLS & VOIDS BELOW FINISHED FLOOR OR GRADE W/CONCRETE GROUT.
 - 3) SAW CONTROL JOINTS IN THE CONCRETE SLAB IMMEDIATELY AFTER SET UP. REFER TO DRAWINGS, BUT MAXIMUM SPACING SHALL BE 16'-0" IN EITHER DIRECTION (TYPICAL UNLESS NOTED OTHERWISE).
 - 4) CONTRACTOR SHALL COORDINATE FLOOR DRAINS, AND DEPTHS WITH MECHANICAL. REFER TO ARCH. FOR RECD FLOOR SLOPE.

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Powell's Valley Water District
Slade/Nada Waste Water Treament Facility
Blower Building
Slade/Nada Interchange
Powell County, Kentucky



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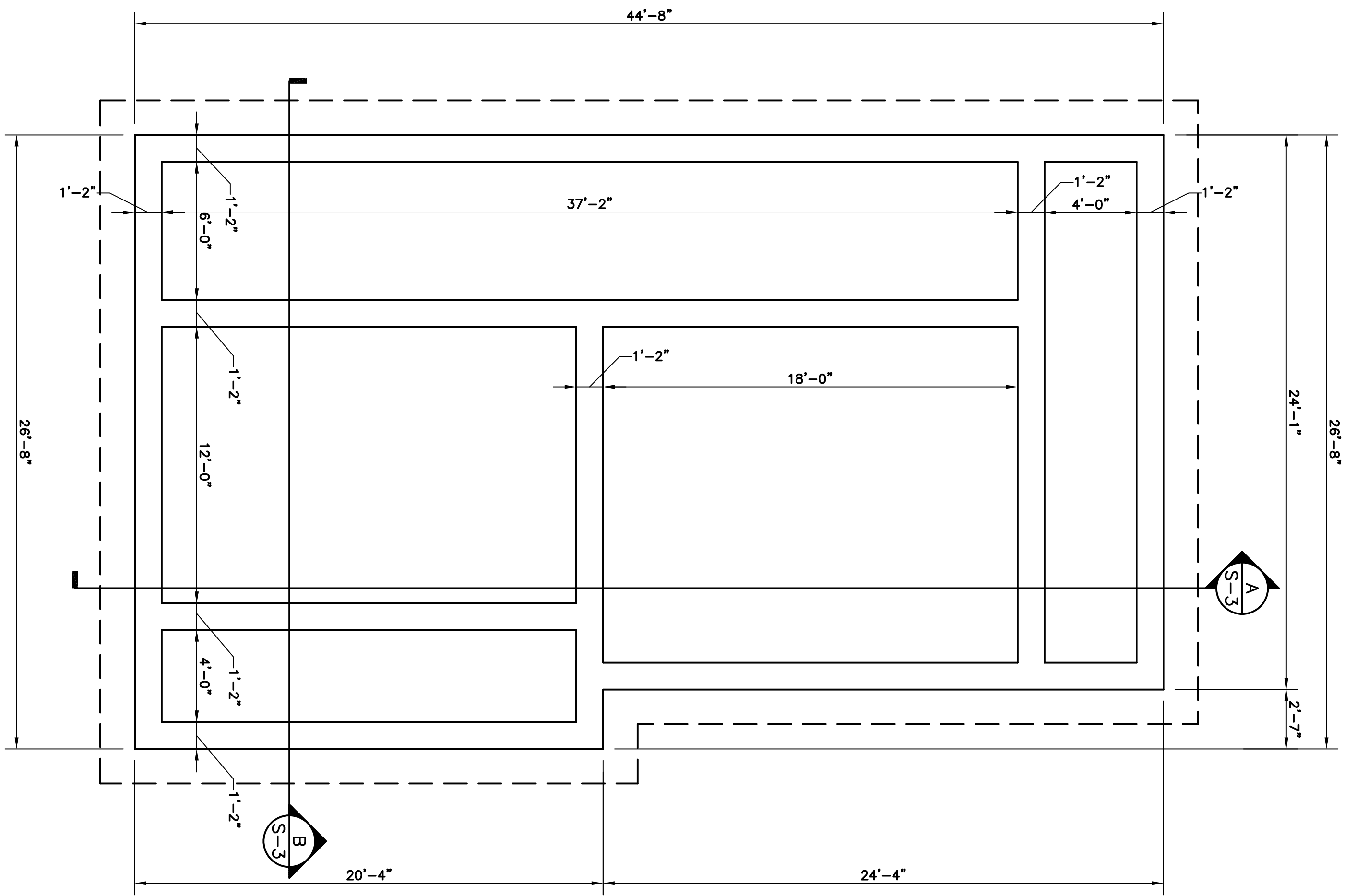
624 Wellington Way
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PROJECT NO.	452414
DESIGNED BY	
DRAWN BY	SRF(p26043)
CHECKED BY	CSK
REVIEWED BY	
DATE	July 22, 2026
SCALE	AS NOTED

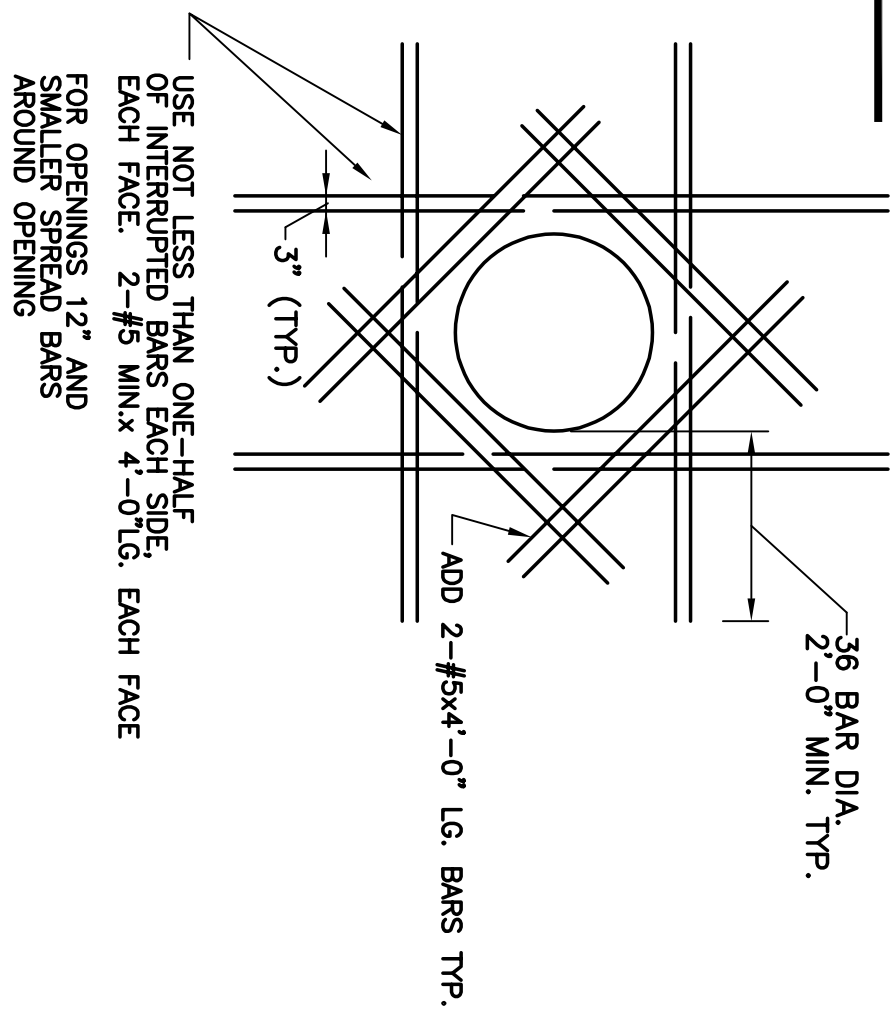
DESIGN DOCUMENTS
The design professional waves any and all responsibility and liability for problems which arise from failure to follow these plans, specifications and the design intent they convey.

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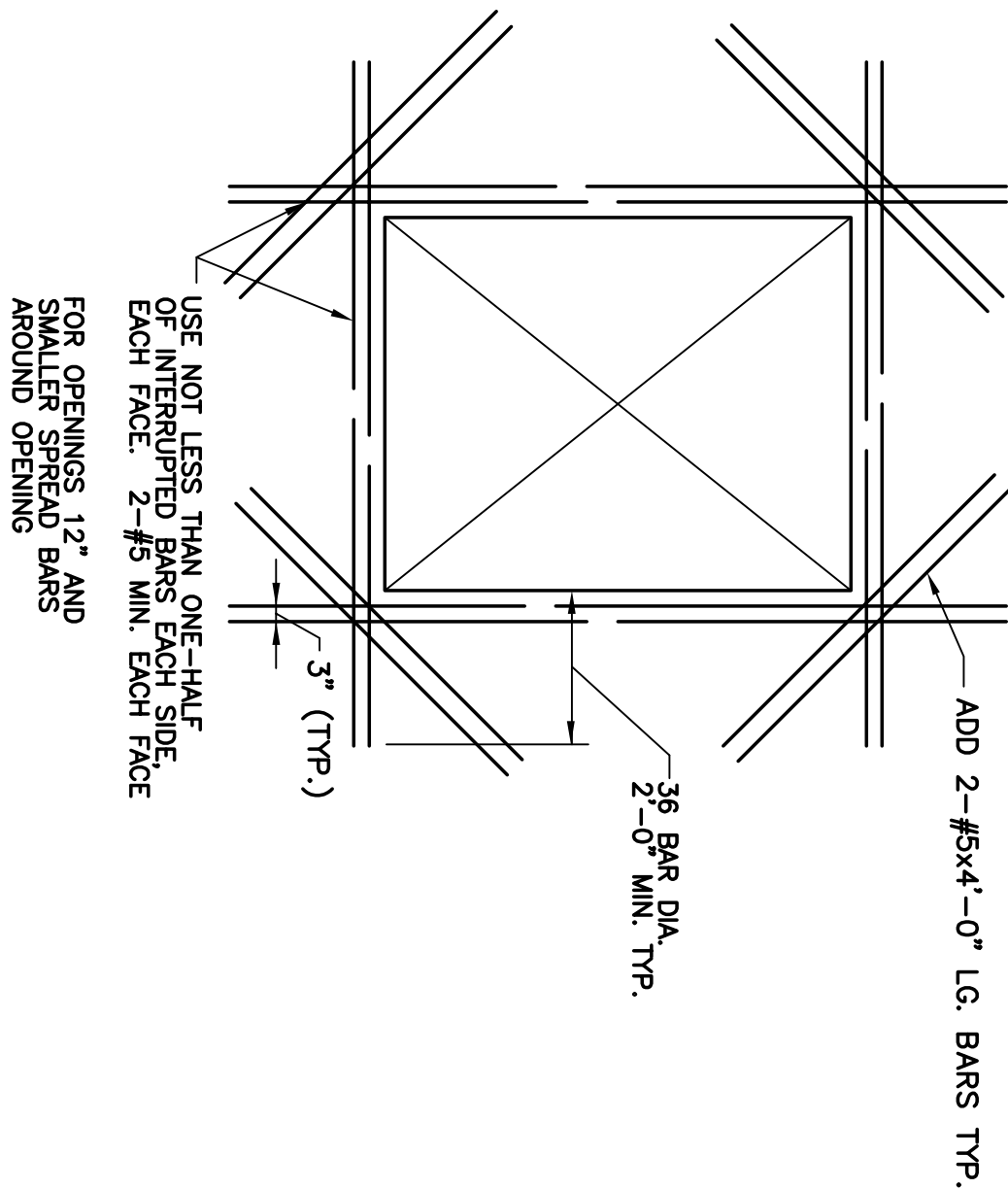
EQ BASIN FOUNDATION PLAN

REFER TO CIVIL & EQUIPMENT DRAWINGS FOR ALL SLEEVE/NOTCHES, PRESSURE RELIEF VALVES, ETC..



ADDITIONAL REINFORCEMENT
ROUND OPENINGS
LARGER THAN 12"

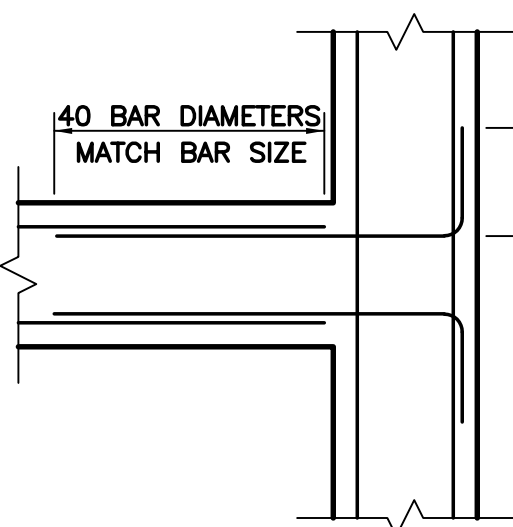
NOTE: ADDITIONAL BARS SHOWN APPLY TO EA. MAT.-BAR LENGTH SHALL BE A MINIMUM OF 4'-0" LONG AND SHALL ALSO EXTEND A MINIMUM OF 38 BAR DIAMETER BEYOND OPENINGS.



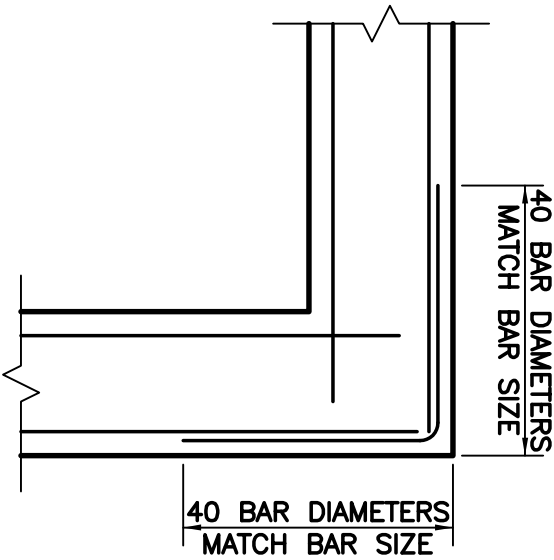
**ADDITIONAL REINFORCEMENT
RECTANGULAR OPENINGS
LARGER THAN 12"**

NOTE: ADDITIONAL BARS SHOWN APPLY TO EA. MAT.-BAR LENGTH SHALL BE A MINIMUM OF 4'-0" LONG AND SHALL ALSO EXTEND A MINIMUM OF 38 BAR DIAMETER BEYOND OPENINGS.

TYPICAL WALL INTERSECTION REINFORCING DETAIL

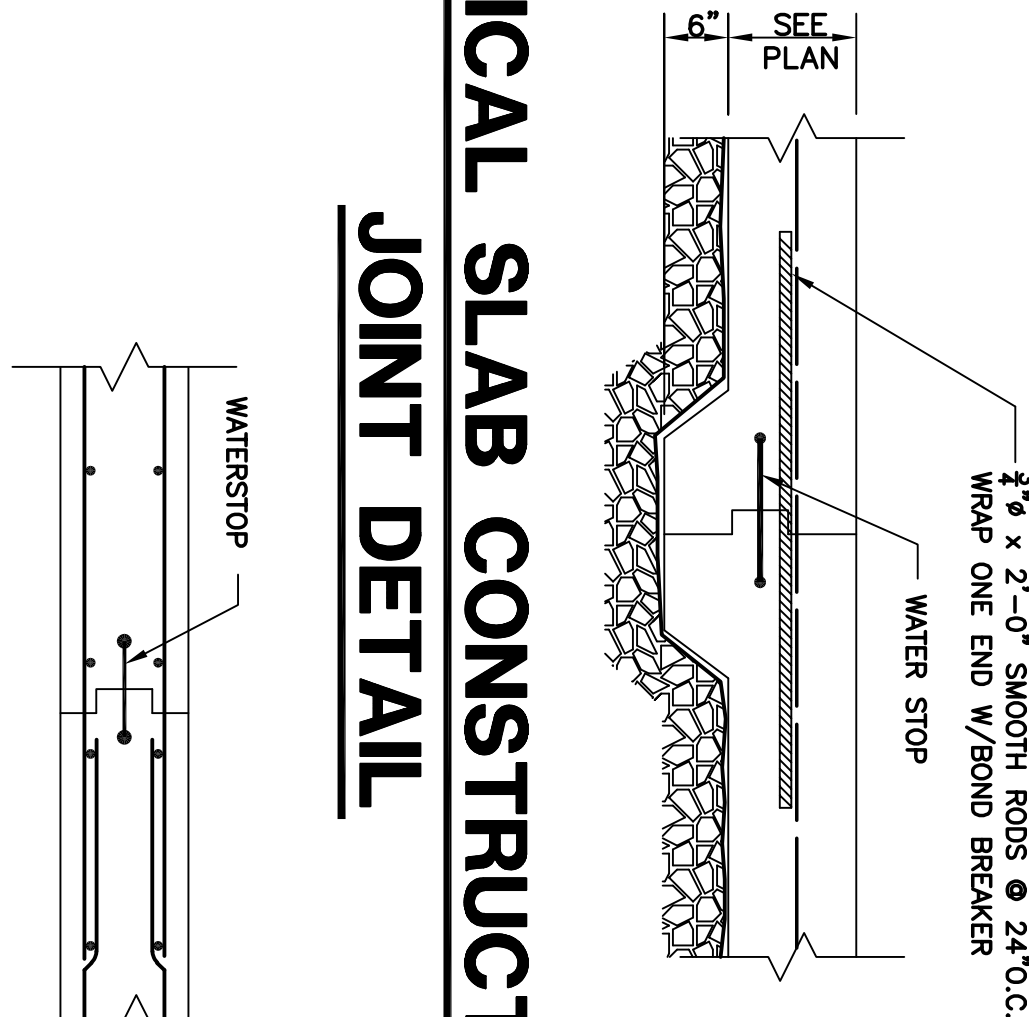


TYPICAL CORNER **REINFORCING DETAIL**

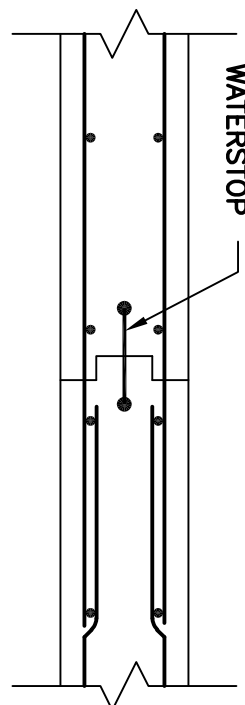


TYPICAL SLAB CONSTRUCTION

JOINT DETAIL



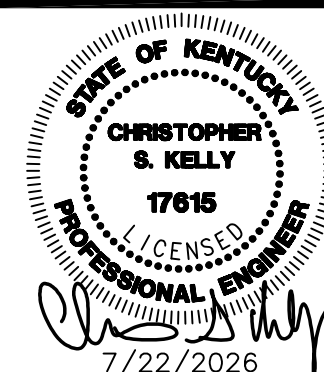
TYPICAL WALL CONST. JT.



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Powell's Valley Water District
Slade/Nada Waste Water Treatment Facility
EQ Basin
Slade/Nada Interchange
Powell County, Kentucky

PROJECT NO.	952414				
SIGNED BY					
DRAWN BY	SRF(p26043)				
CHECKED BY	CSK				
REVIEWED BY					
DATE	July 22, 2026	DESIGN DOCUMENTS:			
SCALE	AS NOTED	The design professional waives any and all responsibility and liability for problems which arise from failure to follow these plans, specifications and the design intent they convey.			
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DRAWING NO.

S-2

SHEET OF

