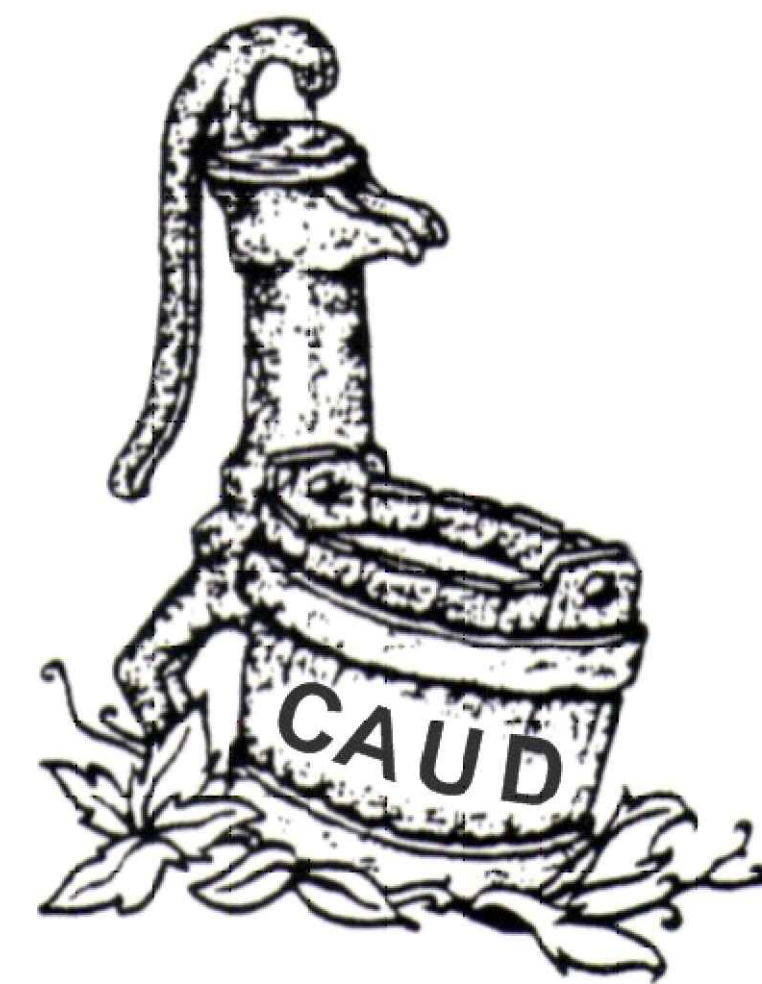


# Contract 2

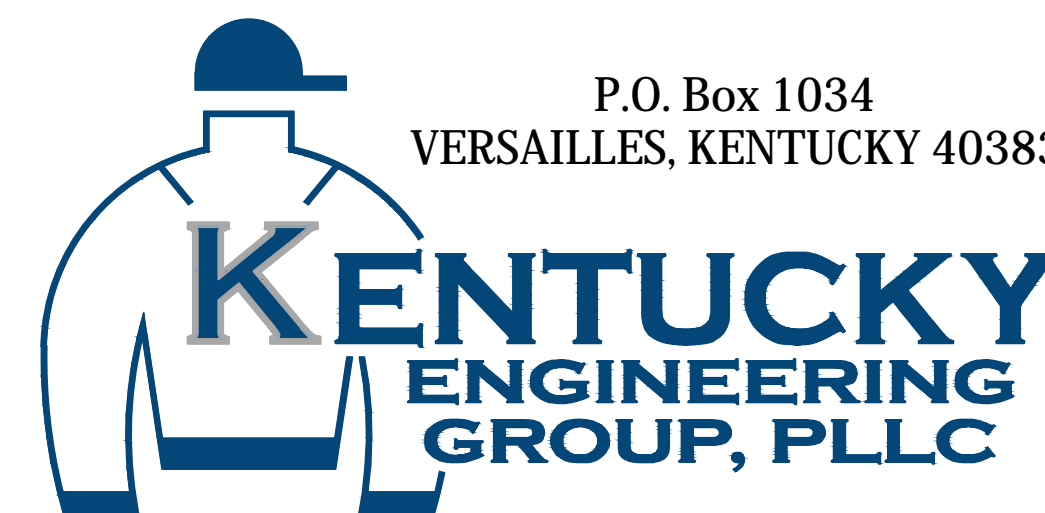
## 2019 Phase 18 Water and Sewer System Improvements

### WWTP Influent Lift Station Improvements

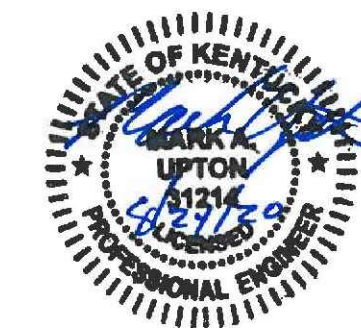


Columbia-Adair Utilities District  
Columbia, Adair County, Kentucky

JUNE , 2020

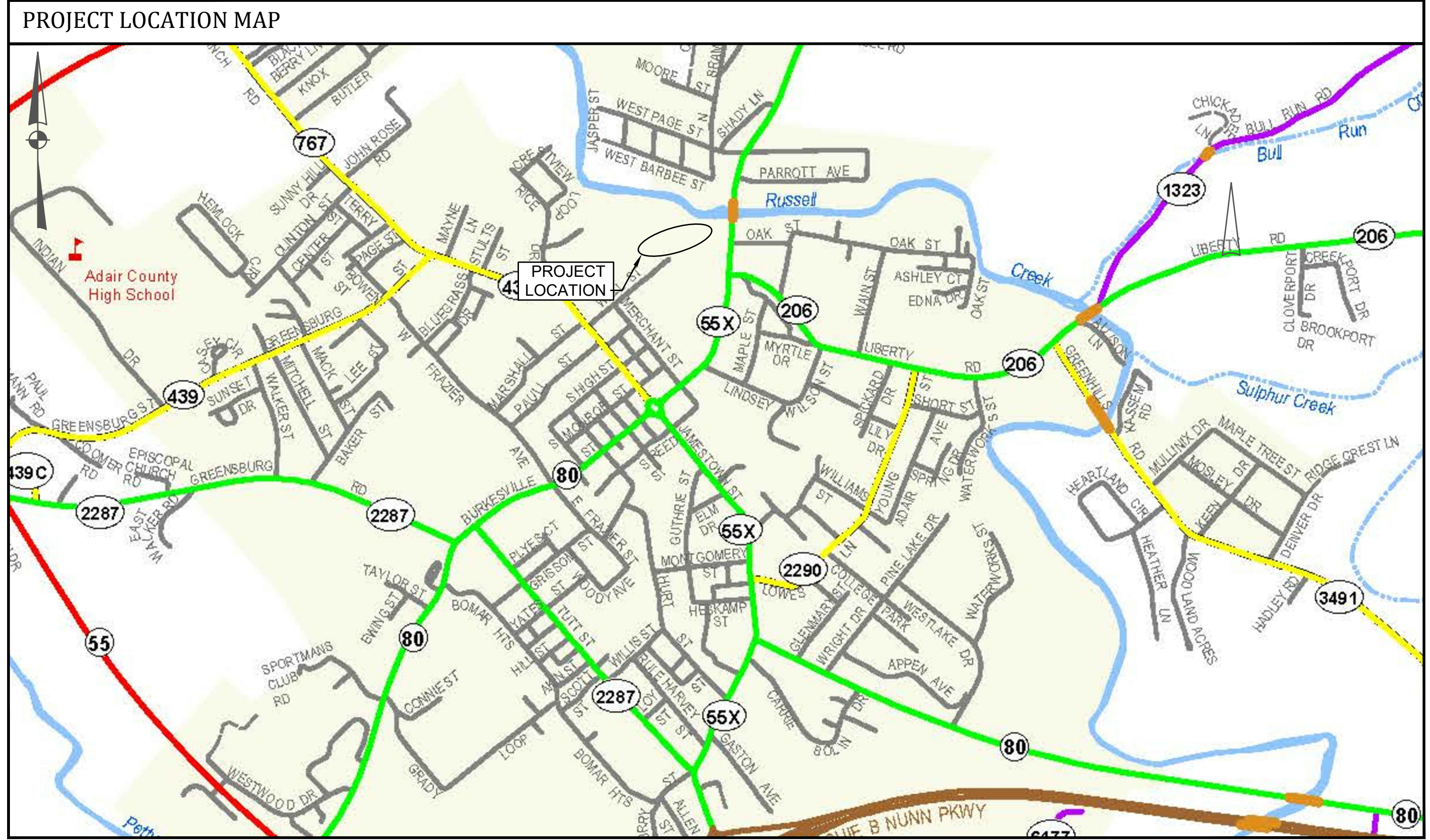


P.O. Box 1034  
VERSAILLES, KENTUCKY 40383



PROJECT NO. 19013

BID DOCUMENTS



**ADAIR COUNTY**  
NOT TO SCALE

DRAWING LEGEND	
—	PROPERTY LINE
—	EDGE OF PAVEMENT
—	INVERT
—	STATION
—	EXISTING
—	MANHOLE
—	WATER TIGHT
—	POWER POLE
—	COMBINATION AIR AND VACUUM RELEASE VALVE
⊕	GRINDER PUMP STATION
—	PROPOSED FORCE MAIN
—	PROPOSED SANITARY SEWER
—	PROPOSED COMBINATION AIR AND VACUUM RELEASE VALVE
—	EXISTING UTILITIES
●	PROPOSED CLEANOUT
○	EXISTING MANHOLE
■	PROPOSED PUMP STATION
→	DIRECTION OF FLOW
②	PLAN SHEET NUMBER
□	PLAN SHEET COVERAGE

UTILITIES	
<b>BUD - Be ore You Dig</b>	
1-800- 2- 00	
or DIAL 811	
<b>NOTE:</b>	IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

INDE OF DRAWINGS	
SHT. NO.	DESCRIPTION
G-00-00	COVER
G-00-01	LOCATION MAP, LEGEND, UTILITY OWNERS and INDE OF DRAWINGS
C-00-01	WWTP SITE PLAN
C-01-01	EXISTING INFLUENT LIFT STATION MODIFICATIONS
C-01-02	PROPOSED INFLUENT LIFT STATION
SD-00-01	STANDARD DETAILS
SD-00-02	EROSION CONTROL DETAILS
E-00-01	ELECTRICAL SITE PLAN
E-00-02	CONTROL CIRCUIT 1
E-00-03	CONTROL CIRCUIT 2
E-01-01	ELECTRICAL DEMOLITION PLAN
E-01-02	ELECTRICAL PLAN
E-01-03	ELECTRICAL DETAILS

- GENERAL NOTES**
- THE CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND PIPING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES ENCOUNTERED BEFORE BEGINNING CONSTRUCTION OPERATIONS. SITE YARD PIPING LAYOUT OR DIMENSIONS, WHERE GIVEN, ARE TO SHOW THE ENGINEER'S INTENT AND TO AID THE CONTRACTOR IN PIPE INSTALLATION.
  - DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. ALL NECESSARY DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES TOPOGRAPHY SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
  - GENERALLY, ALL EXISTING EQUIPMENT, PIPING VALVING, ETC., SHOWN TO BE REMOVED, SHALL, AFTER REMOVAL, BE DISPOSED OF BY THE CONTRACTOR UNLESS SHOWN OTHERWISE ON THESE DRAWINGS. CONTRACTOR SHALL CONSULT PLANT REPRESENTATIVE BEFORE DISPOSAL OF ANY ITEMS.
  - ALL WALL PENETRATIONS FOR PIPING SHALL CONFORM TO THE STANDARD DETAILS AS REQUIRED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
  - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS THAT APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.
  - PIPE AND CONDUIT SUPPORTS ARE TYPICALLY NOT SHOWN. HOWEVER ALL PIPING, INSIDE AND OUTSIDE, SHALL BE ADEQUATELY SUPPORTED AND BLOCKED SO AS NOT TO PRODUCE UNDUE STRAIN OR VIBRATION ON PIPE JOINTS OR EQUIPMENT, SEE SPECIFICATIONS.
  - ALL PIPING ABANDONED IN PLACE SHALL BE PROPERLY CAPPED OR PLUGGED AT EACH END AND RENDERED LEAKPROOF.
  - ELECT LOCATIONS OF DUCTS, CONDUITS, LIGHT FIXTURES AND PIPES SHALL BE FIELD LOCATED AND COORDINATED WITH THE WORK OF SUBCONTRACTORS FOR THE VARIOUS TRADES INVOLVED.
  - ELECTRICAL AND INSTRUMENTATION SUBCONTRACTORS SHALL NOTIFY THE CONTRACTOR AND COORDINATE THE SIZES AND LOCATIONS OF ALL OPENINGS AND RECESSES IN STRUCTURES REQUIRED FOR THEIR WORK.
  - CONTRACTOR SHALL FIELD LOCATE AND EXPOSE UTILITIES BEFORE INSTALLING PIPE OR CONDUITS.
  - THE CONTRACTOR SHALL SCHEDULE ALL WORK TO ALLOW PLANT OPERATION TO BE MAINTAINED THROUGHOUT CONSTRUCTION CONTRACT TIME PERIOD.
  - EXTREREME CARE SHALL BE TAKEN TO PROTECT UNDERGROUND PIPING AND UNDER SLAB PIPING FROM SURFACE LOADS EXERTED BY CONSTRUCTION EQUIPMENT TRUCKS, LOADERS, CRANES, ETC.
  - THE RENOVATION WILL BE ACCOMPLISHED IN PHASES. THEREFORE THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT COMPLETED WORK FROM ONGOING RENOVATION WORK.
  - THE CONTRACTOR SHALL CONFIRM THE CONTENTS OF ANY AND ALL PIPING INVOLVED IN DEMOLITION REQUIREMENTS AND PROVIDE AND WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE PROTECTION.

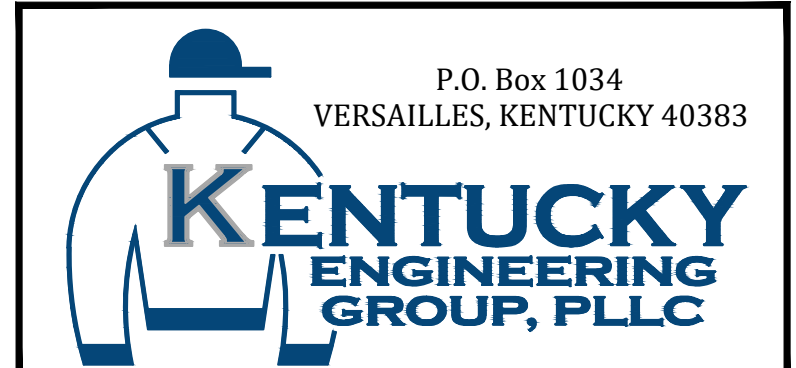
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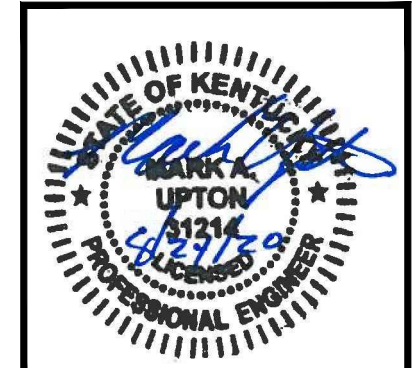
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PROJECT MGR:	MAU
DRAWN BY:	MAU
CHECKED BY:	RCC
SCALE:	AS NOTED
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CONTRACT No. 2  
2019 PHASE 18  
WATER AND SEWER SYSTEM IMPROVEMENTS  
WWTP INFLUENT LIFT STATION IMPROVEMENTS  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

LOCATION MAP, INDE OF DRAWINGS, LEGEND, UTILITIES



PROJECT NO.	19013
SHEET NO.	G-00-01



REFERENCE NOTES:

1. PROPOSED SUBMERSIBLE PUMPS
2. PROPOSED VALVE VAULT
3. EXISTING WASTE SLUDGE METER VAULT
4. EXISTING RETURN SLUDGE METER VAULT
5. EXISTING 12" FORCE MAIN
6. EXISTING 16" FORCE MAIN
7. EXISTING INFLUENT SCREW PUMPS
8. EXISTING VALVE VAULT
9. EXISTING STORM WATER PUMP STATION
10. EXISTING 8" RETURN ACTIVATED SLUDGE LINE
11. BYPASS PUMPING QUICK CONNECTION
12. EXISTING WASTE ACTIVATED SLUDGE LINE
13. EXISTING GRIT CHAMBER
14. NEW BOLLARD

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING STRUCTURES AND UTILITIES IN THE VICINITY OF THE NEW VALVE VAULT. IF ANY CONFLICTS ARE FOUND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY
2. EXISTING FORCE MAIN SHALL BE REMOVED TO ALLOW FOR THE INSTALLATION OF THE NEW VALVE VAULT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL OTHER UTILITIES IN THE AREA DURING CONSTRUCTION
3. CONTRACTOR SHALL COORDINATE WORK WITH OWNER IN ORDER TO HAVE SCREW PUMPS IN OPERATION FOR INSTALLATION OF THE NEW SUBMERSIBLE PUMPS.
4. COMPLETE SHUTDOWN OF INFLUENT LIFT STATION FOR THE INSTALLATION OF BASE ELBOWS SHALL BE COMPLETED DURING LOW FLOW PERIODS WHEN THE EXISTING INFLUENT SCREW PUMPS HAVE ADEQUATE CAPACITY.
5. THE CONTRACTOR SHALL HAVE ON SITE BYPASS PUMPING EQUIPMENT CAPABLE OF 3.0 MGD PUMPING FROM THE EXISTING SCREW PUMP WELL TO THE QUICK CONNECT IN CASE OF UNEXPECTED HIGH FLOWS.
6. ACTIVATED SLUDGE IS CURRENTLY RETURNED TO THE INFLUENT STATION. CONTRACTOR SHALL PROVIDE PUMPING EQUIPMENT OR MODIFY EXISTING YARD PIPING TO RETURN SLUDGE TO THE OXIDATION DITCH DURING PERIOD OF COMPLETE SHUTDOWN OF THE INFLUENT STATION.

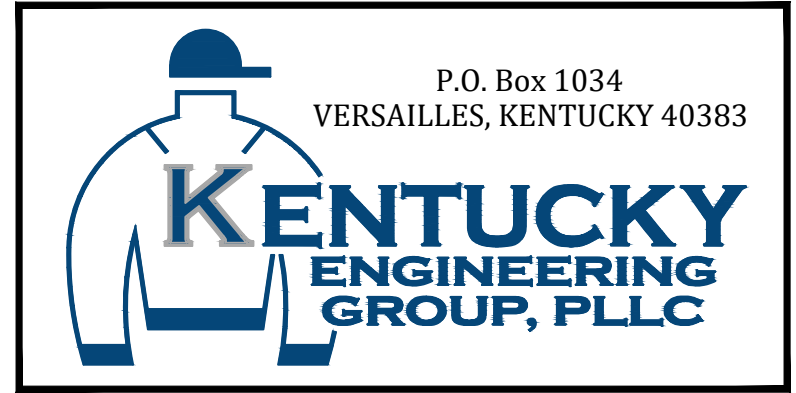
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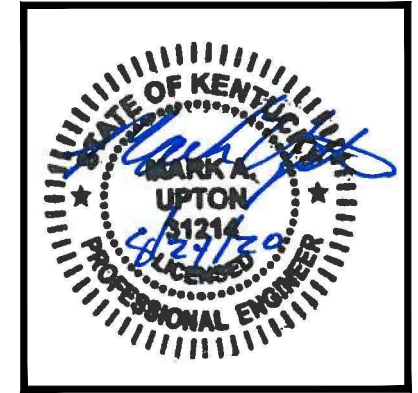
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WWTP INFLUENT LIFT STATION IMPROVEMENTS  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

WWTP SITE  
INFLUENT PUMP STATION  
MODIFICATIONS



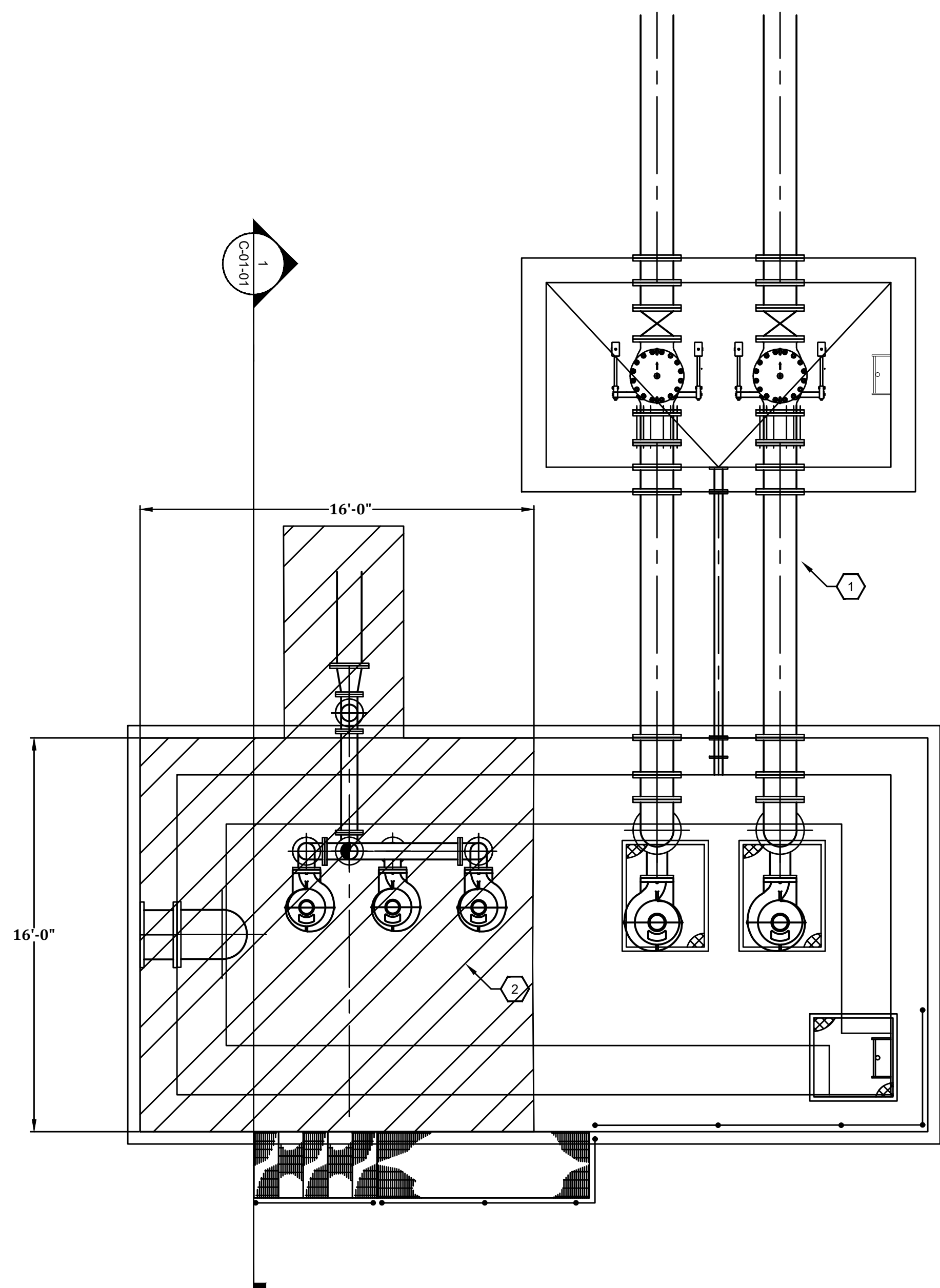
PROJECT NO. 19013
SHEET NO. C-00-01

**REFERENCE NOTES:**

1. EXISTING PUMPS AND PIPING TO REMAIN
2. EXISTING PUMPS, PIPING AND ENLCOSURE TO BE DEMOLISHED

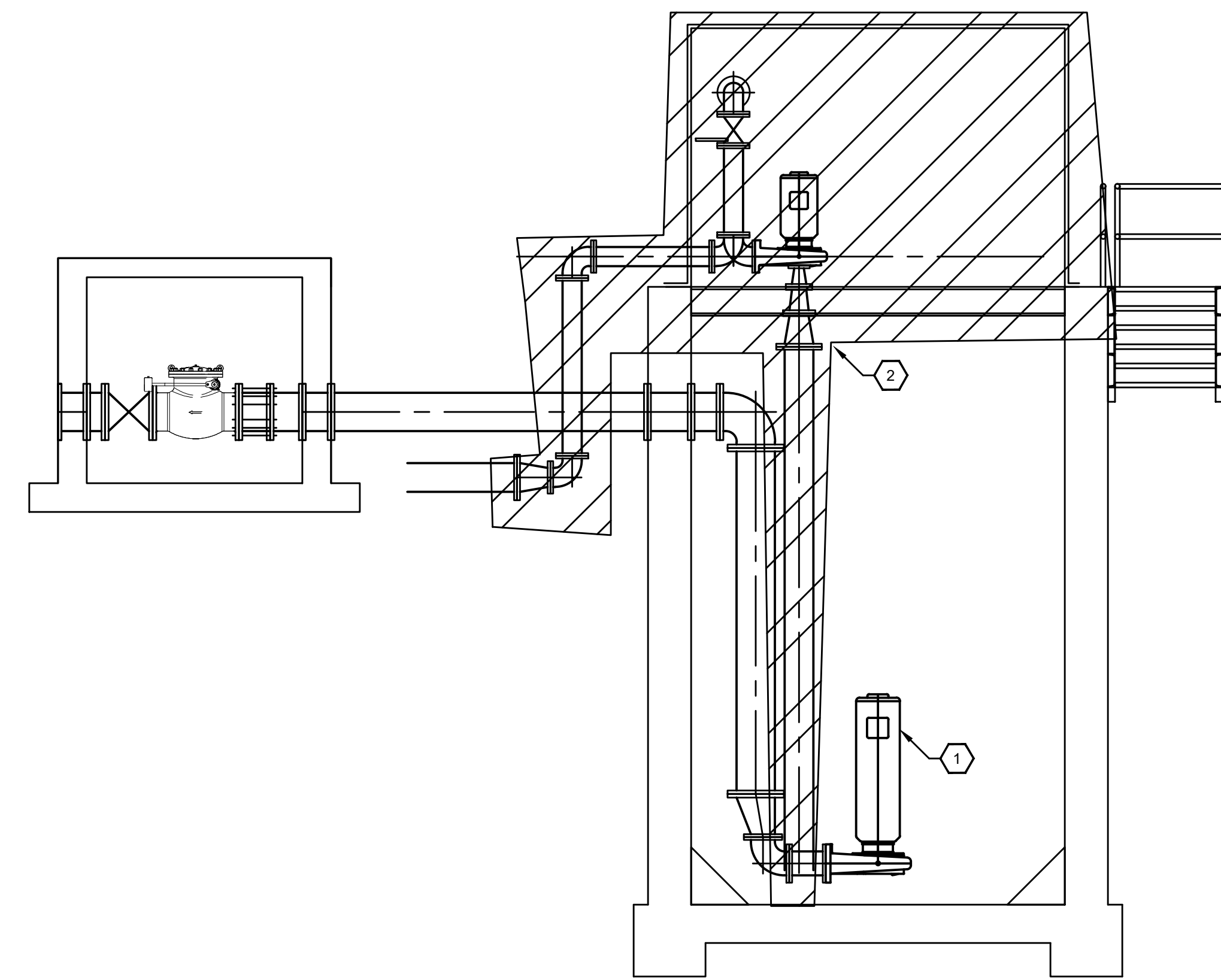
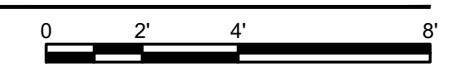
**GENERAL NOTES:**

1. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF ALL EQUIPMENT SHOWN.
2. YARD PIPING SHALL BE REMOVED TO ALLOW INSTALLATION OF A NEW VALVE VAULT.
3. CONTRACTOR SHALL COORDINATE WORK WITH OWNER IN ORDER TO PROVIDE ADEQUATE PUMPING. WHILE STATION IS OUT OF SERVICE
4. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EQUIPMENT TO REMAIN IN SERVICE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING THE INFLUENT AND ALL DEWATERING OF THE STATION NECESSARY FOR COMPLETION OF THE MODIFICATIONS.



**INFLUENT PUMP STATION PLAN**

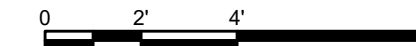
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**INFLUENT PUMP STATION SECTION**

1  
C-01-01

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



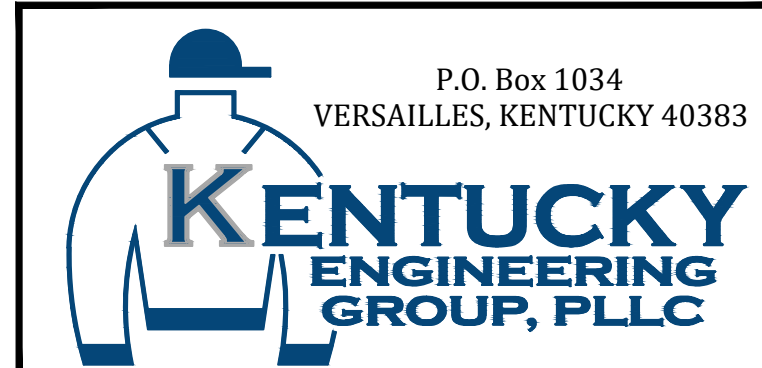
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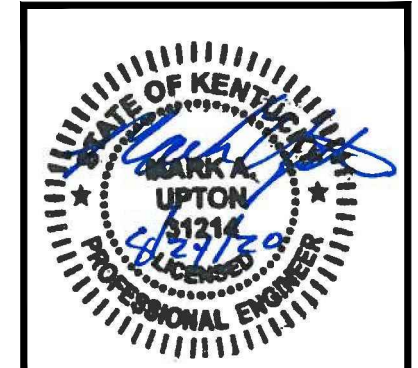
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CONTRACT No. 2  
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WATER AND SEWER SYSTEM IMPROVEMENTS  
WWTP INFLUENT LIFT STATION IMPROVEMENTS  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

EXISTING INFLUENT  
PUMP STATION  
MODIFICATIONS



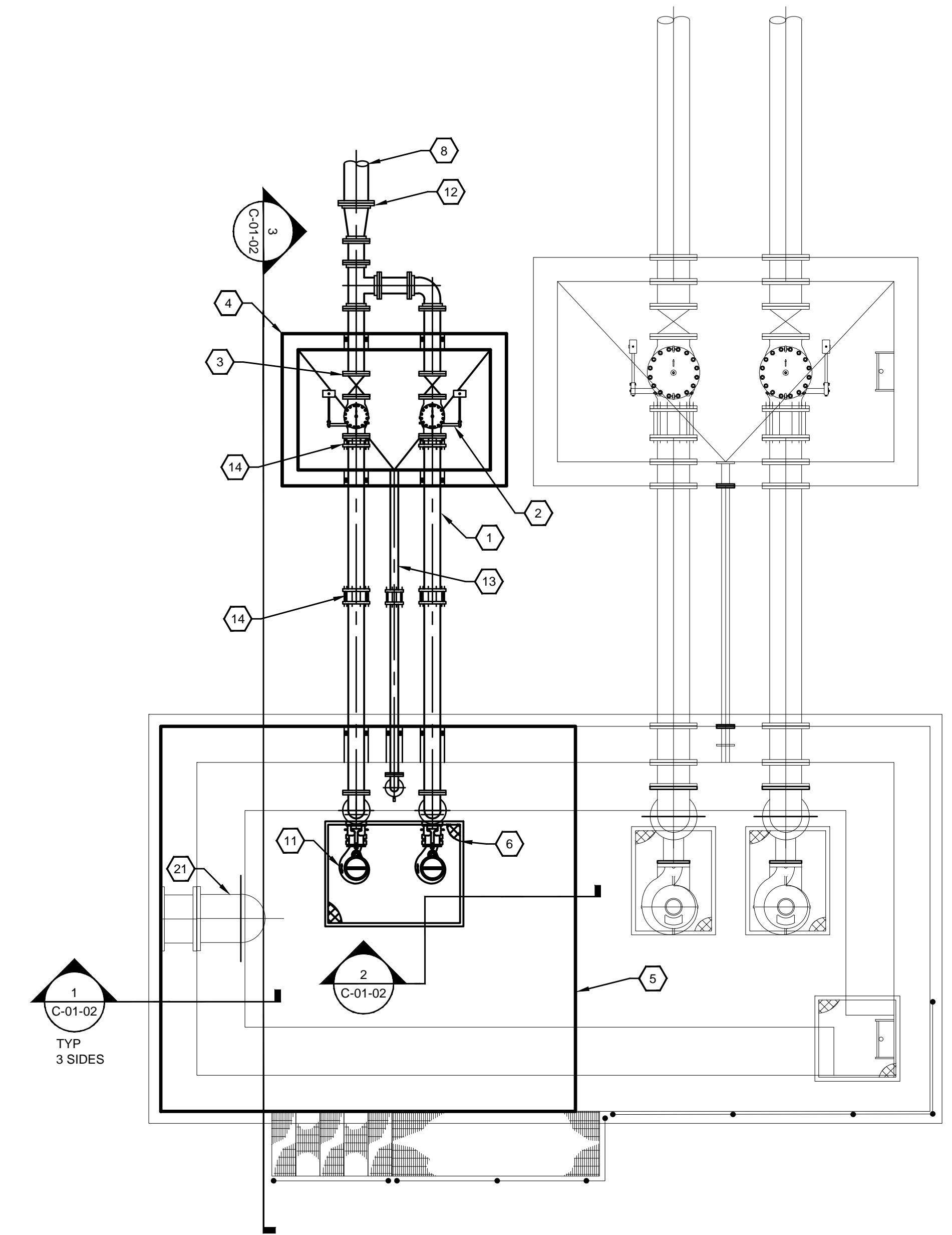
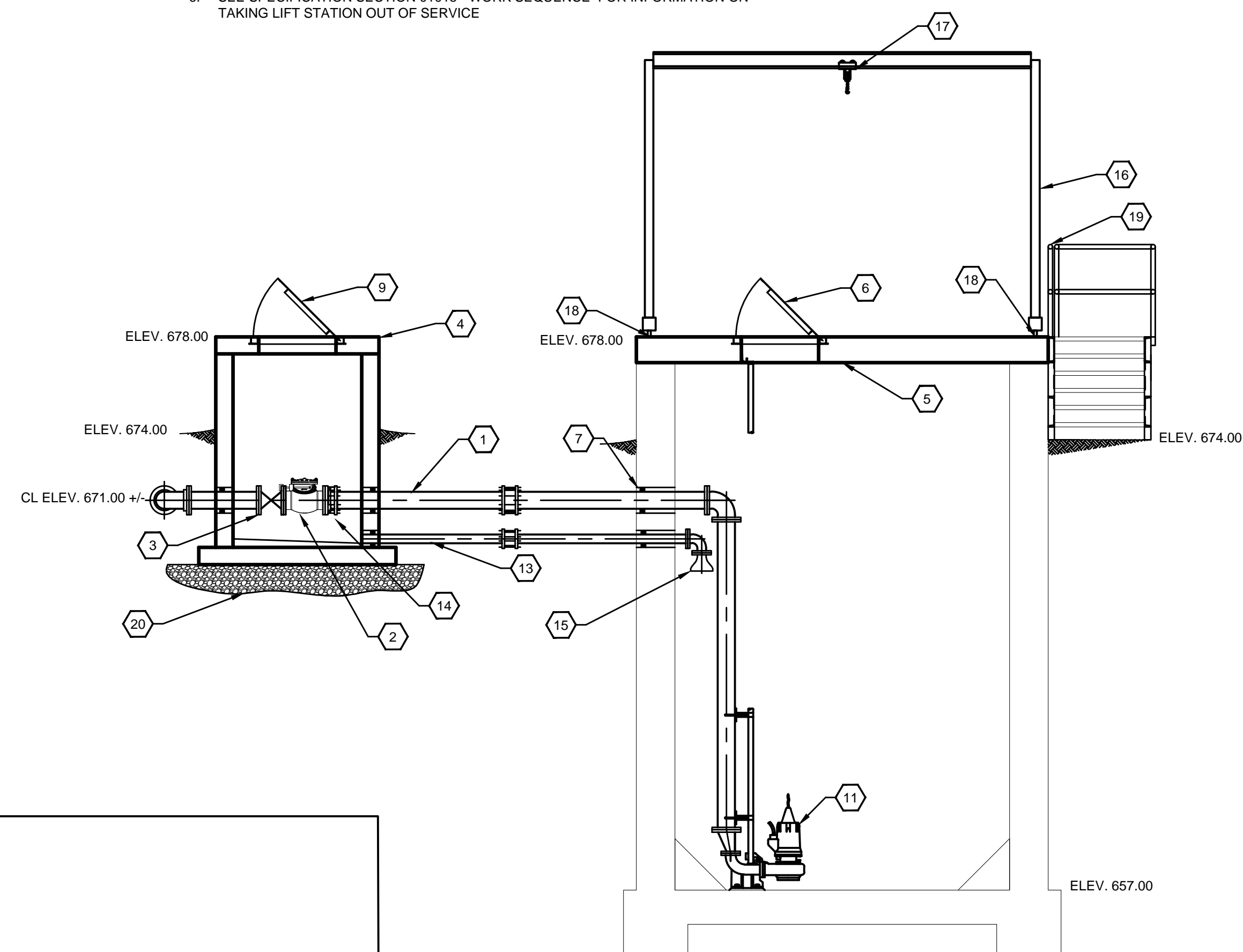
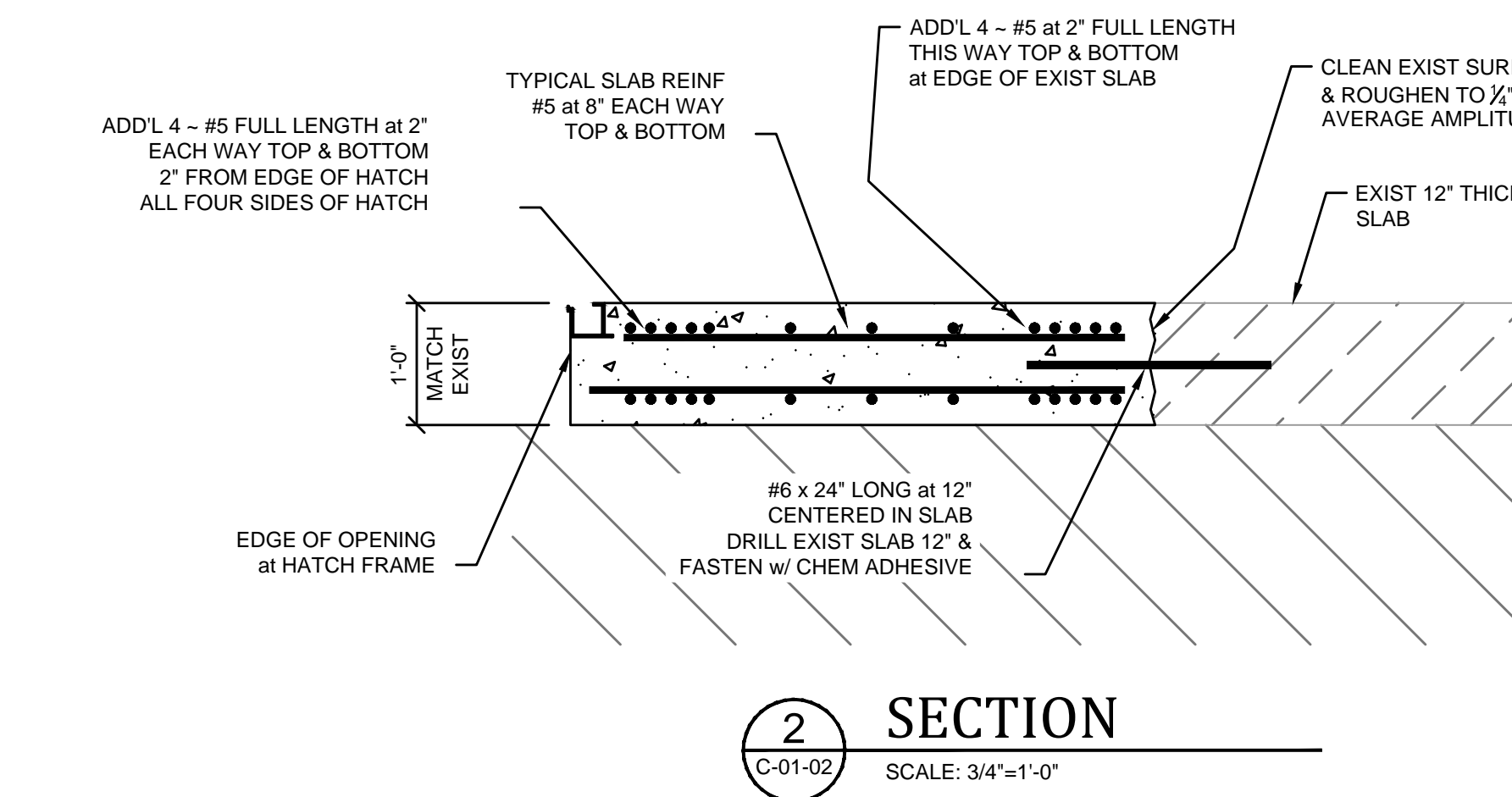
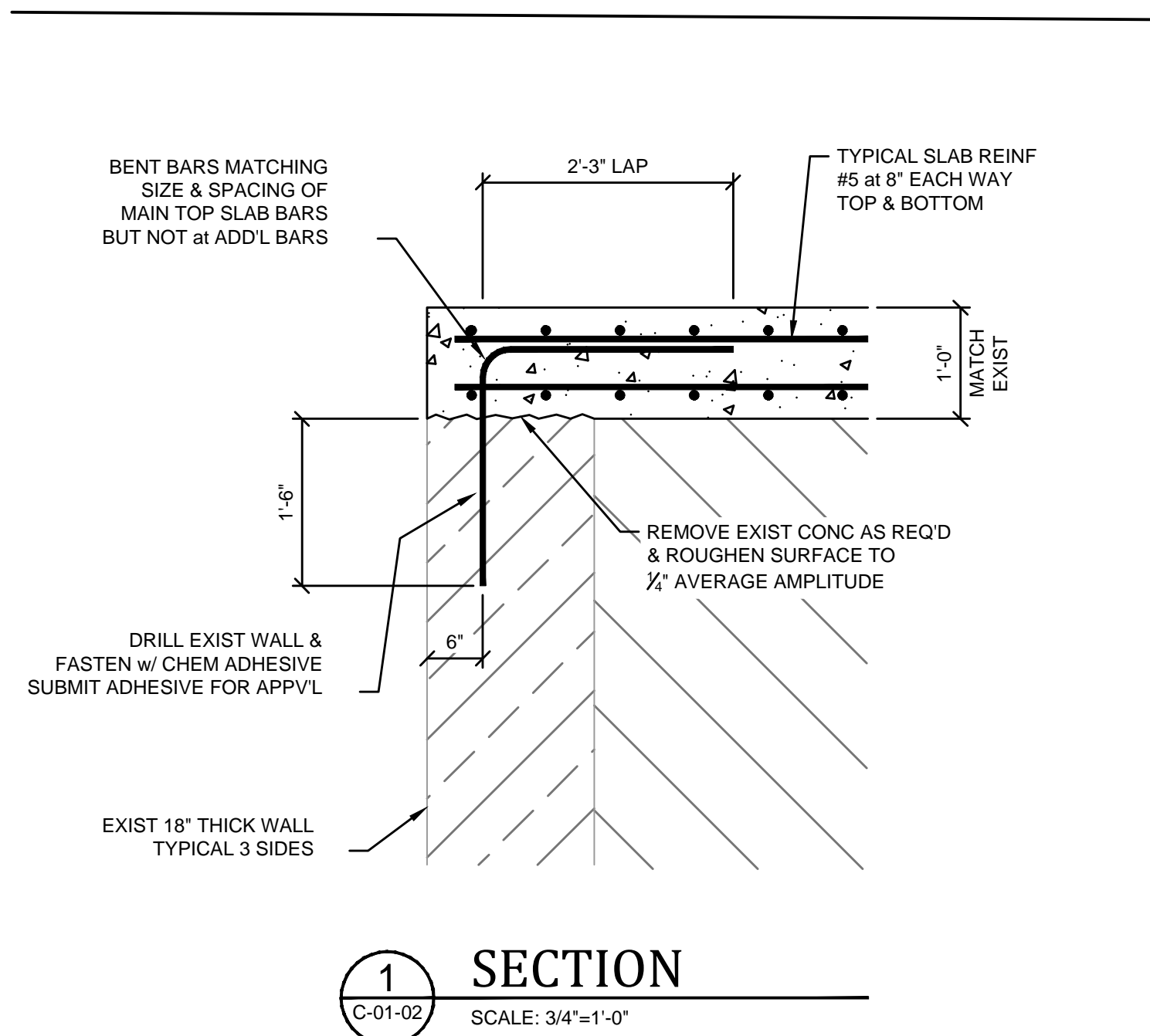
PROJECT NO.	19013
SHEET NO.	C-01-01

**REFERENCE NOTES:**

1. NEW 8" FORCE MAIN
2. 8" SWING CHECK VALVE (TYP/2)
3. 8" PLUG VALVE (TYP/2)
4. NEW 5' x 8' VALVE VAULT
5. NEW WET WELL TOP SLAB OVER VOID LEFT BY EXISTING TOP MOUNT STATION
6. NEW SS HATCH (TO BE SIZED AND PROVIDED BY PUMP MANUFACTURER)
7. CORE HOLE IN EXISTING WET WELL FOR NEW FORCE MAIN AND DRAIN LINE. (CONTRACTOR TO SEAL WITH LINK SEAL AND FILL ANNULAR SPACE WITH NON-SHRINK GROUT)
8. CONNECT TO EXISTING FORCE MAIN (SEE GENERAL NOTE 1)
9. NEW 30" X 30" VALVE VAULT HATCH (TO BE PLUMBED AND DRAINED TO DAYLIGHT)
10. NEW OVERHEAD CRANE SYSTEM
11. NEW SUBMERSIBLE PUMP (TYP/2)
12. 8"x12" REDUCER
13. 4" DRAIN LINE
14. FLANGED COUPLING ADAPTER (TYP/5)
15. BACKFLOW PREVENTER
16. 1 TON CAPACITY GANTRY CRANE (15' WIDE, 10' TALL)
17. 1 TON TROLLEY AND MOTOR OPERATED HOIST
18. GANTRY CRANE TRACKS (FULL LENGTH OF LIFT STATION)
19. RELOCATED HANDRAIL TO SIDE MOUNT
20. COMPACTED CRUSHED STONE AGGREGATE BASE (6" MINIMUM)
21. 24" INFLUENT PIPE

**GENERAL NOTES:**

1. CONTRACTOR SHALL VERIFY DEPTH OF EXISTING FORCE MAIN TO SET ELEVATION OF NEW PIPE LEAVING WET WELL AND VALVE VAULT DEPTH
2. CONTRACTOR SHALL COORDINATE WORK WITH OWNER IN ORDER TO HAVE ALTERNATE PUMPING FACILITIES IN OPERATION
3. VALVE VAULT STRUCTURE TO BE PROVIDED WITH ANTI FLOTATION COLLAR. SIZE OF COLLAR TO BE CALCULATED BY PRECAST MANUFACTURER AND SUBMITTED AS PART OF SHOP DRAWINGS
4. PUMP SUPPLIER SHALL PROVIDE LEVEL TRANSDUCER IN SDR 35 STILLING WELL TO OPERATE NEW PUMPS BY VFD WITH FLOAT BACKUPS. FLOAT ELEVATIONS TO MATCH EXISTING
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING THE INFLUENT AND ALL DEWATERING OF THE STATION NECESSARY FOR COMPLETION OF THE MODIFICATIONS.
6. SEE SPECIFICATION SECTION 01015 - WORK SEQUENCE FOR INFORMATION ON TAKING LIFT STATION OUT OF SERVICE



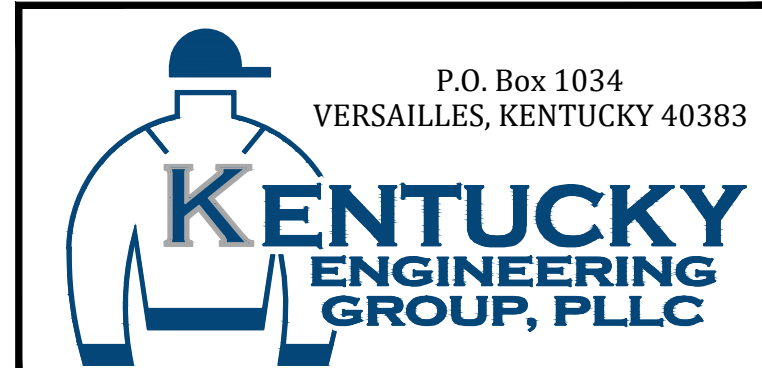
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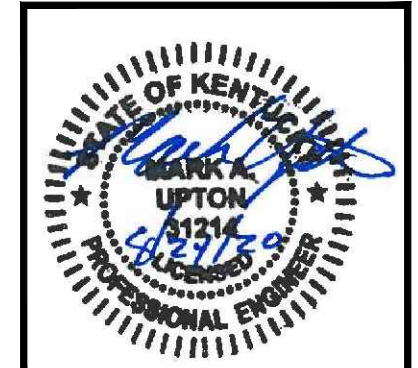
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DATE:	JUNE 2020
PROJECT MGR:	MAU
DRAWN BY:	MAU
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SCALE:	AS NOTED
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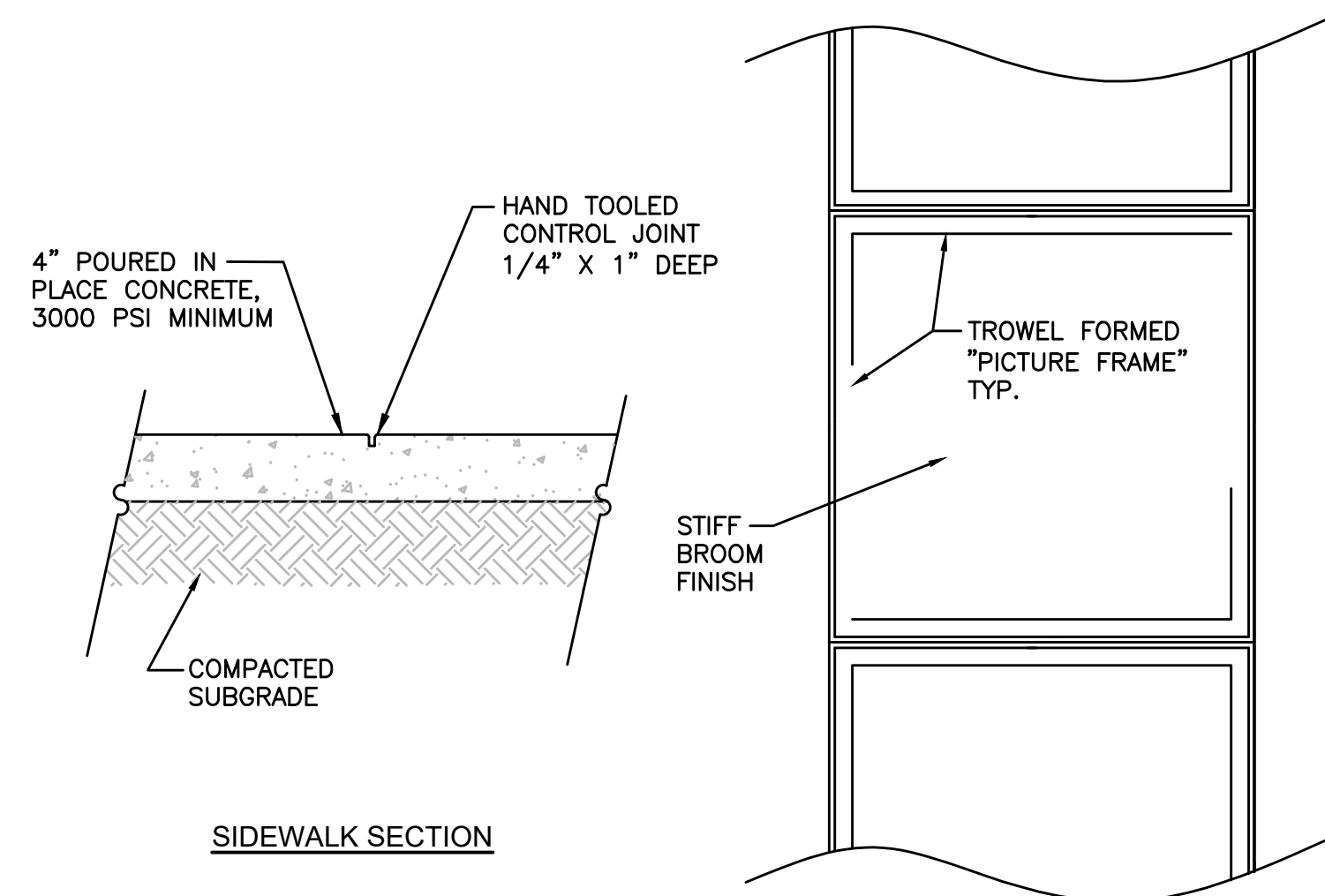


CONTRACT No. 2  
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WWTP INFLUENT LIFT STATION IMPROVEMENTS  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

PROPOSED INFLUENT PUMP STATION

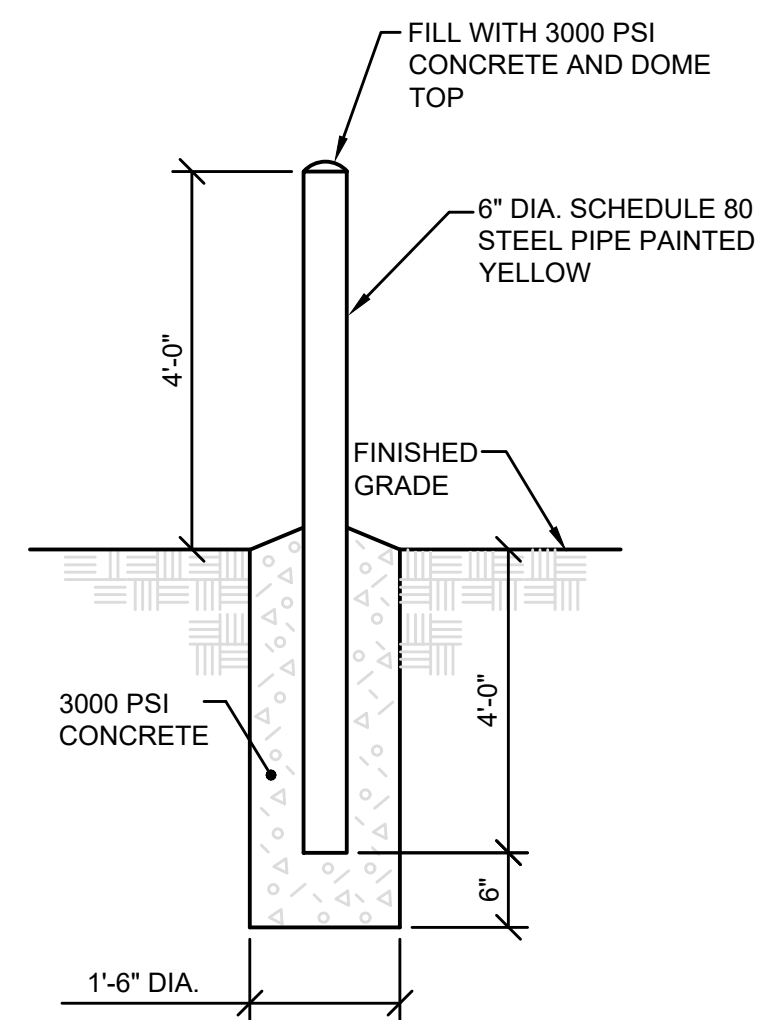


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SHEET NO.	C-01-02

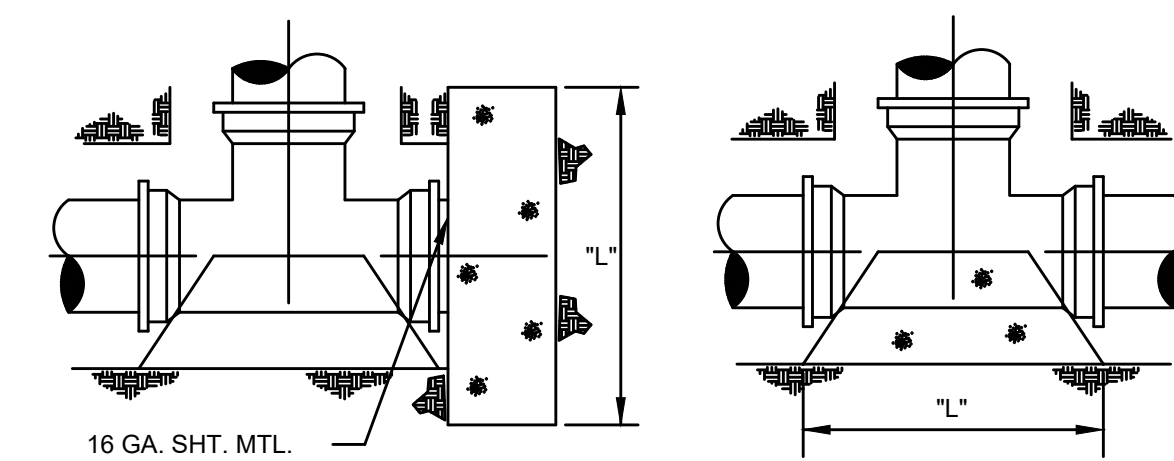


**NOTE:**  
1. SIDEWALK WIDTH AS SHOWN ON PLAN.

**CONCRETE SIDEWALK**  
NOT TO SCALE

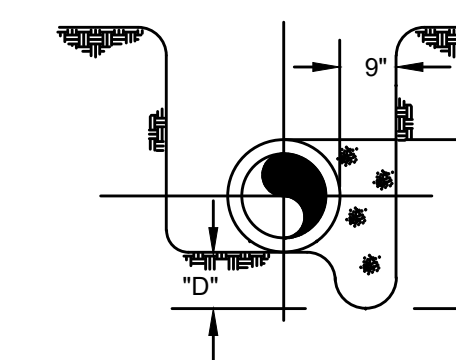


**BOLLARD**  
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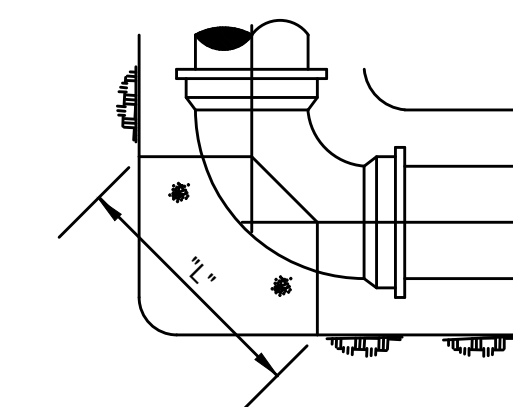
**PLUGGED TEE**

**TEE**

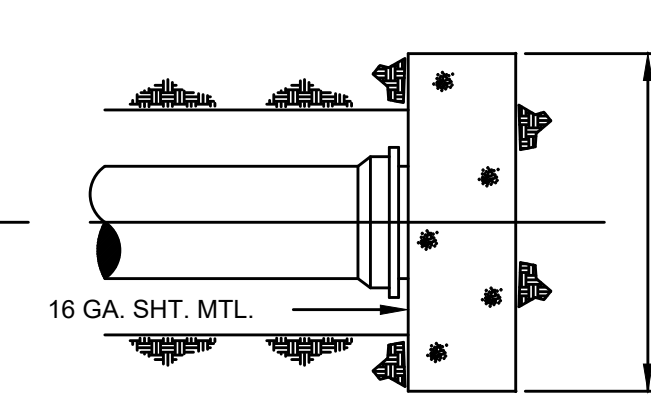


**SECTION - TYP.**

**11 1/4°, 22 1/2°, AND 45° BEND**



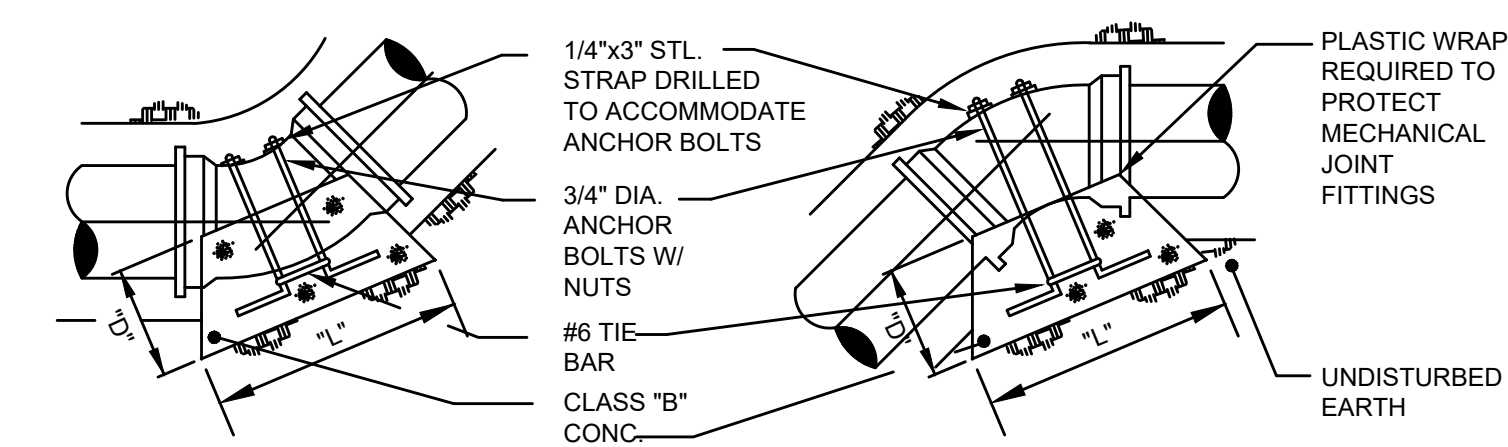
**90° BEND**



**END OF MAIN**

NOTE: MECHANICAL JOINT FITTINGS ARE REQUIRED.

W = WIDTH OF CONC. FROM UNDISTURBED TRENCH WALL TO UNDISTURBED TRENCH WALL

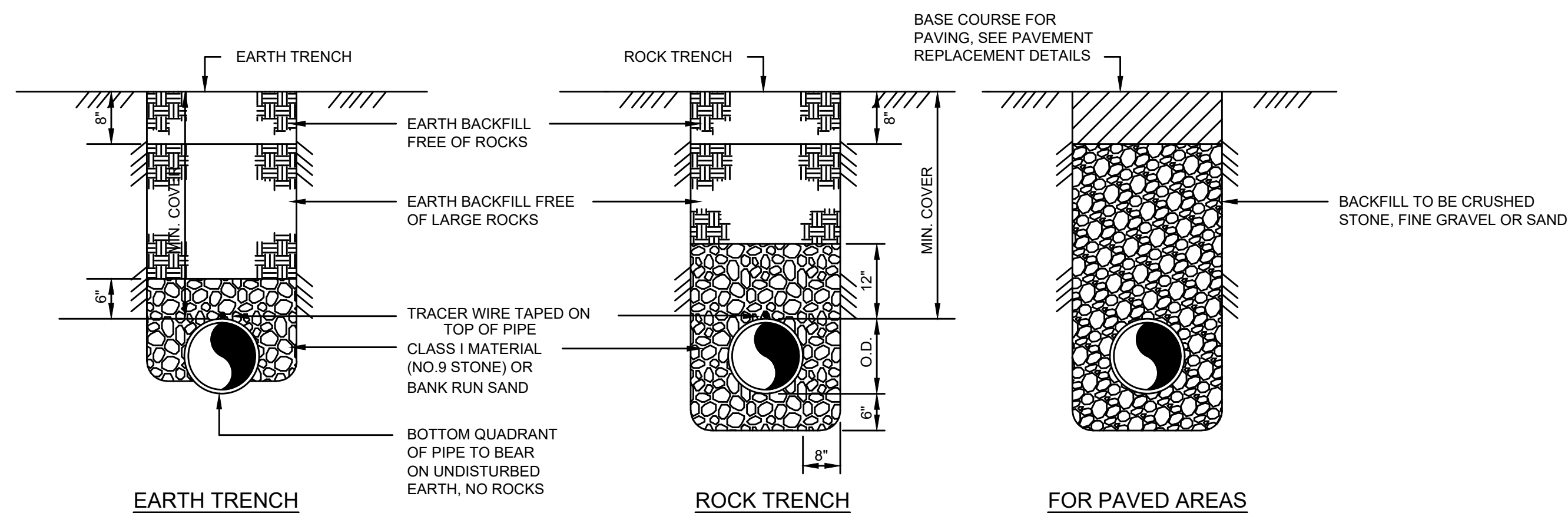


**VERTICAL BEND**

(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)

**VERTICAL BEND**

(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)



**TYPICAL - BEDDING AND BACKFILL**  
NOT TO SCALE

**NOTES:**

1. REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
2. IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO. 9 CRUSHED STONE MUST BE PLACED UNDER THE ENCASMENT PIPE.
3. X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (36" + PIPE O.D.)
4. FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST 6' OR MORE. IF LESS THAN 6' REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.
5. NO. 610 CRUSHED STONE MAY BE SUBSTITUTED FOR MECHANICALLY TAMPED EARTH BACKFILL WITH PRIOR APPROVAL OF THE ENGINEER.
6. 1' SAW CUT OUTSIDE OF TRENCH LINES, BITUMINOUS PATCH PLACED IN 2" LIFTS WITH TACK COAT ON EACH SIDE, EACH LIFT COMPACTED WITH SMALL ROLLER.

NOTE:  
ALL WATER LINES CONSTRUCTED WITHIN 3' OF A COUNTY ROAD SHALL BE BACKFILLED WITH DGA TO FULL DEPTH.

PIPE SIZE	45° BEND			22 1/2° BEND			11 1/4° BEND			
	D	W	L	D	W	L	D	W	L	
2"	6"	10"	4"	4"	7"	3"	4"	7"	3"	4"
3"	6"	10"	8"	4"	8"	6"	4"	8"	3"	6"
4"	6"	11"	9"	6"	11"	7"	4"	9"	3"	6"
6"	8"	15"	13"	6"	13"	12"	4"	11"	8"	4"
8"	10"	21"	19"	8"	17"	17"	6"	15"	10"	4"
10"	10"	23"	29"	8"	20"	22"	6"	17"	13"	6"
12"	12"	27"	31"	10"	24"	27"	10"	23"	14"	6"
14"	14"	31"	38"	13"	29"	31"	12"	27"	17"	6"
16"	15"	34"	44"	15"	33"	38"	14"	31"	19"	8"
18"	21"	42"	45"	18"	38"	39"	17"	36"	21"	10"
20"	22"	45"	53"	21"	43"	42"	18"	39"	24"	10"

\* TEE & END OF MAIN

(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)

**THRUST BLOCKS**

NOT TO SCALE

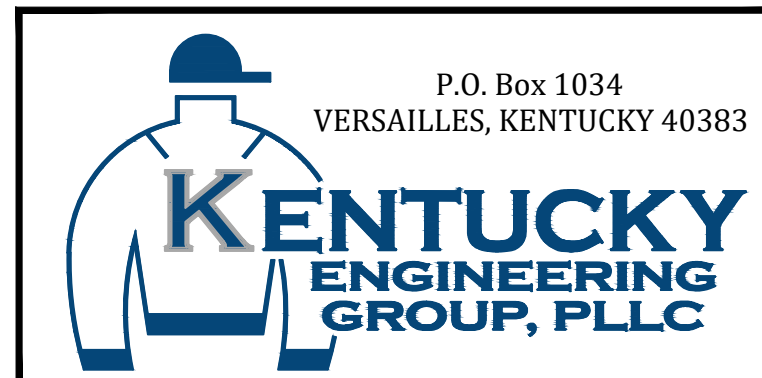
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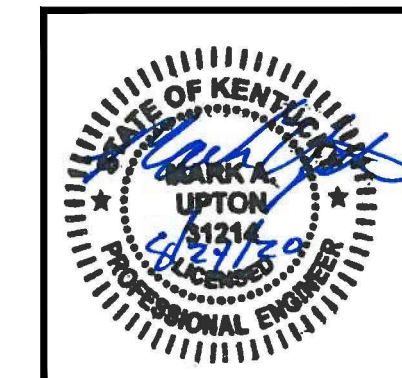
NO.	DATE	REVISIONS	BY

DATE:	JUNE 2020
PROJECT MGR:	MAU
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CHECKED BY:	RCC
SCALE:	AS NOTED
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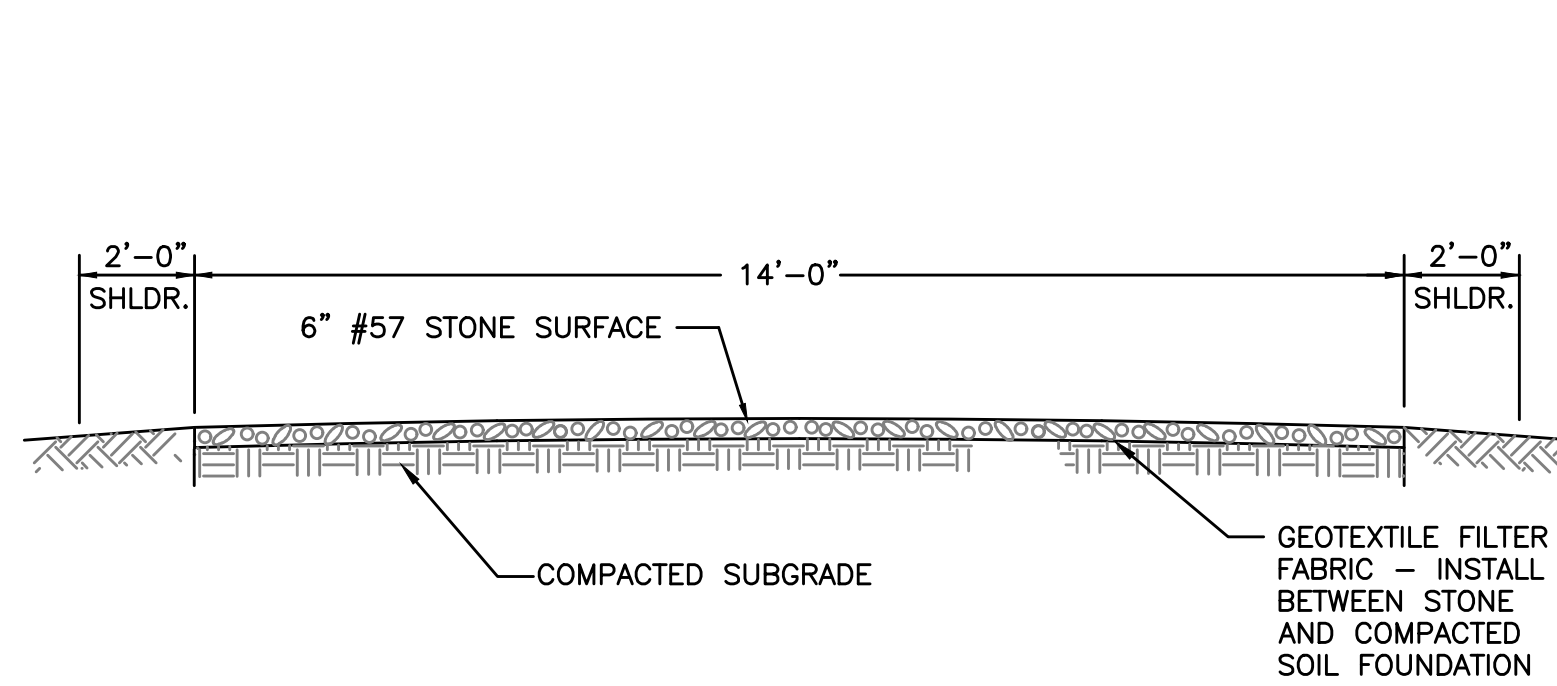


CONTRACT No. 2  
2019 PHASE 18  
WATER AND SEWER SYSTEM IMPROVEMENTS  
WWTP INFLUENT LIFT STATION IMPROVEMENTS  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

STANDARD  
DETAILS



PROJECT NO.	19013
SHEET NO.	SD-00-01

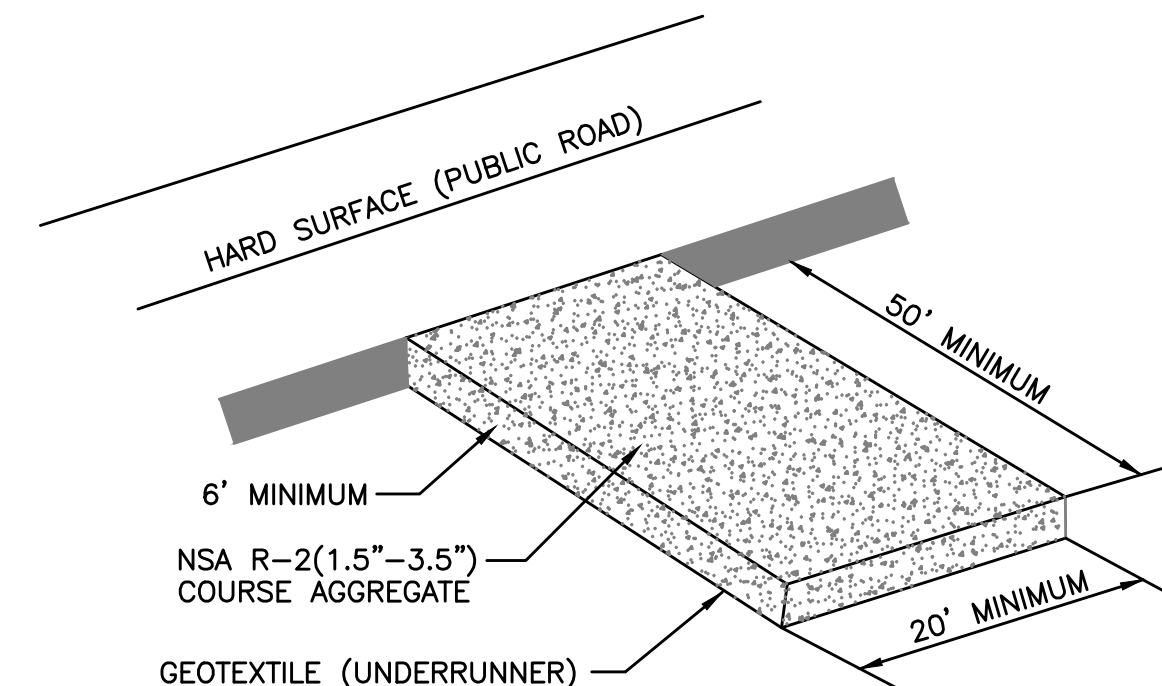


**CONSTRUCTION ROAD STABILIZATION**

NOT TO SCALE

**NOTES:**

1. TREES, STUMPS, ROOTS, BRUSH, WEEDS, AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED FROM THE WORK AREA.
2. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ROADBED AND PARKING AREAS.
3. GRADING, SUBGRADE PREPARATION, AND COMPACTION SHALL BE DONE AS NEEDED. FILL MATERIAL SHALL BE DEPOSITED IN LAYERS NOT TO EXCEED 9 INCHES AND COMPACTED WITH THE CONTROLLED MOVEMENT OF COMPACTING AND EARTH MOVING EQUIPMENT.
4. THE ROADBED SHALL BE GRADED TO THE REQUIRED ELEVATION. SUBGRADE PREPARATION AND PLACEMENT OF THE SURFACE COURSE SHALL BE IN ACCORDANCE WITH SOUND ROADWAY CONSTRUCTION.
5. ALL CUT AND FILLS SHALL BE 2:1 OR FLATTER TO THE EXTENT POSSIBLE.
6. WATER BREAKS OR BARS MAY BE USED TO CONTROL SURFACE RUNOFF.
7. ROADS SHALL BE LAID OUT ACCORDING TO GOOD LANDSCAPE MANAGEMENT PRINCIPLES.
8. ALL ROADSIDE DITCHES, CUTS, FILLS, AND DISTURBED AREAS ADJACENT TO ROADS SHALL BE STABILIZED WITH APPROPRIATE TEMPORARY OR PERMANENT VEGETATION.



**NOTES:**

1. A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. GEOTEXTILE (KYTC TYPE III) SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVED SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.

**STABILIZED CONSTRUCTION ENTRANCE**

NOT TO SCALE

**EROSION CONTROL NOTES**

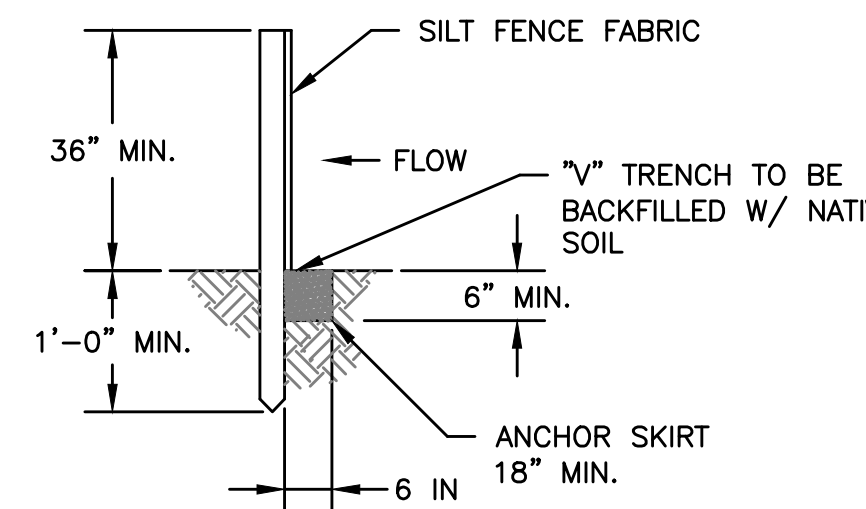
1. A KPDES STORMWATER PERMIT IS REQUIRED FOR THIS PROJECT. COVERAGE STARTS WHEN THE KY DIVISION OF WATER ACKNOWLEDGES RECEIPT OF A NOTICE OF INTENT FOR COVERAGE.
2. THE KPDES PERMIT REQUIRES THAT THE PERMITTEE SHALL MINIMIZE DISTURBANCE AND THE PERIOD OF TIME THAT THE DISTURBED AREA IS WITHOUT STABILIZATION PRACTICES.
3. FINAL STABILIZATION SHALL BEGIN WITHIN 14 DAYS ON AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR HAVE BEEN SUSPENDED FOR MORE THAN 180 DAYS. WHEN SNOW COVER CAUSES DELAYS, STABILIZATION SHALL BEGIN AS SOON AS POSSIBLE. STABILIZATION PRACTICES INCLUDE SEEDING, MULCHING, PLACING SOD, PLANTING TREES OR SHRUBS, AND USING GEOTEXTILE FABRICS AND OTHER APPROPRIATE MEASURES. SEEDING RATES, DATES, AND MATERIALS MAY BE OBTAINED FROM THE LOCAL NATURAL RESOURCES CONSERVATION SERVICE FIELD OFFICE.
4. FOR ALL CRITICAL AREAS (WITHIN 25' OF A STREAM), SOIL STABILIZATION TECHNIQUES SHALL BE IMPLEMENTED WITHIN 24 HOURS OR AS SOON AS PRACTICAL AFTER COMPLETION OF GRADING OR DISTURBANCE. TEMPORARY STABILIZATION PRACTICES SHALL BE INITIATED WITHIN 14 DAYS OF CESSATION OF CONSTRUCTION ACTIVITIES.
5. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE DEVELOPED AND IMPLEMENTED AS OUTLINED IN THE KPDES STORMWATER PERMIT KYR 10.
6. SEDIMENT BASINS (DEBRIS BASINS, DESILTING BASINS, OR SEDIMENT TRAPS) SHALL BE PROPERLY DESIGNED.
7. SEDIMENT BASINS (DEBRIS BASINS, DESILTING BASINS, OR SEDIMENT TRAPS) SHALL BE INSTALLED DURING THE INITIAL GRADING AT LOCATIONS THAT WILL PROVIDE THE BEST PROTECTION FROM OFF-SITE DAMAGES.
8. ALL SLOPES EXCEEDING 3:1 SHALL HAVE EXTRA SLOPE PROTECTION SUCH AS NETTING.
9. A MULTI-PURPOSE BASIN USED FOR A SEDIMENT TRAP THAT IS THEN CONVERTED TO A DETENTION/RETENTION BASIN SHALL BE DREDGED PERIODICALLY DURING CONSTRUCTION ACTIVITIES AND AFTER STABILIZATION IN ORDER TO PROVIDE ADEQUATE STORAGE.
10. INLET PROTECTION IS REQUIRED TO MINIMIZE DISCHARGE OF SEDIMENT LADEN WATER.
11. SITE PERIMETER CONTROLS ARE REQUIRED AND SHALL BE INSTALLED TO PREVENT THE DEPOSIT OF SOIL AND DEBRIS FROM GRADED SURFACES ONTO PUBLIC STREETS, INTO DRAINAGE CHANNELS OR SEWERS, OR ONTO ADJOINING LAND.
12. EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL AND REVISE THE CONTROLS AS NEEDED.

**INSPECTIONS AND MAINTENANCE**

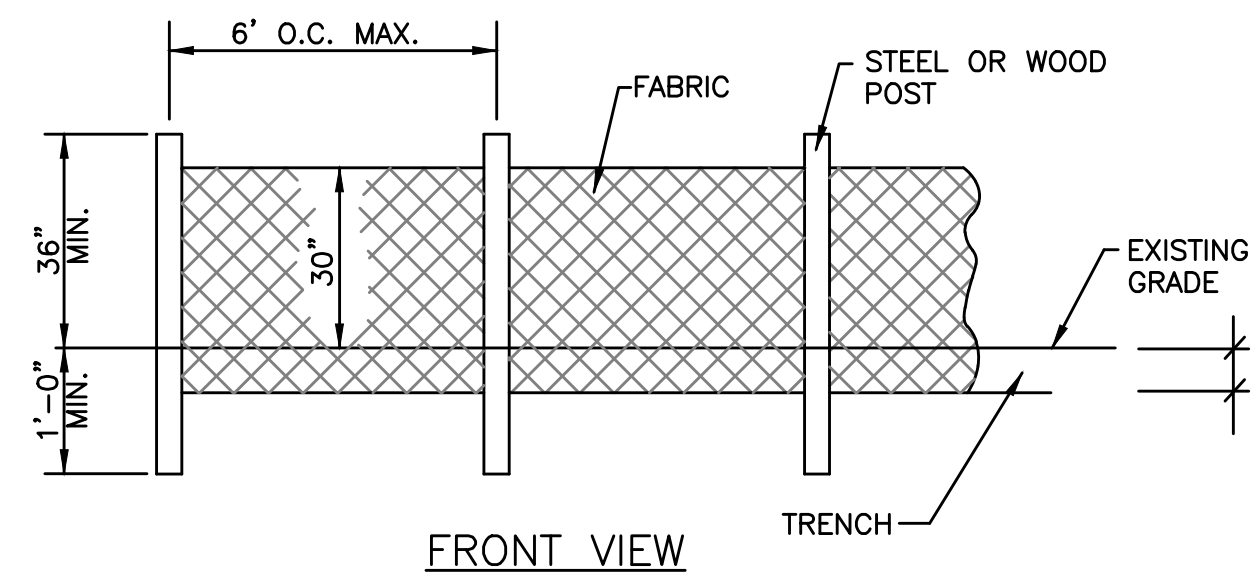
1. ALL EROSION CONTROL MEASURES, DISCHARGE LOCATIONS, VEHICLE EXITS, DISTURBED AREAS OF THE SITE, AND MATERIALS STORAGE AREAS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. EACH INSPECTION MUST BE DOCUMENTED IN ACCORDANCE WITH THE KPDES GENERAL PERMIT FOR STORMWATER POINT SOURCE DISCHARGES FROM CONSTRUCTION ACTIVITIES (KYR10).
2. SEDIMENT ACCUMULATED AT THE SILT FENCES, INLET PROTECTION AREAS, AND OTHER SILT CHECK DEVICES SHOULD BE REMOVED NO LATER THAN WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.
3. SEDIMENT MUST BE REMOVED FROM ANY SEDIMENT BASINS WHEN THE NO MORE THAN 1/3 VOLUME HAS BEEN FILLED WITH COLLECTED SEDIMENT.
4. ALL REQUIRED REPAIRS ARE TO BE MADE IMMEDIATELY.
5. REMOVED SEDIMENT MUST BE SPREAD AND VEGETATED OR OTHERWISE STABILIZED IN A MANNER THAT DOES NOT RESULT IN MUDDY RUNOFF TO NEARBY DITCHES AND WATERBODIES.
6. INSPECT THE CONSTRUCTION ENTRANCE DAILY TO ENSURE NO TRACKING OR DIRT ONTO LOCAL ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS MUST BE REMOVED IMMEDIATELY. SEE NOTE 3 FOR HANDLING OF REMOVED SEDIMENT.
7. MAINTAIN THE ENTRANCE AS NECESSARY TO PREVENT TRACKING OF DIRT.

**SEDIMENT BARRIER**

NOT TO SCALE

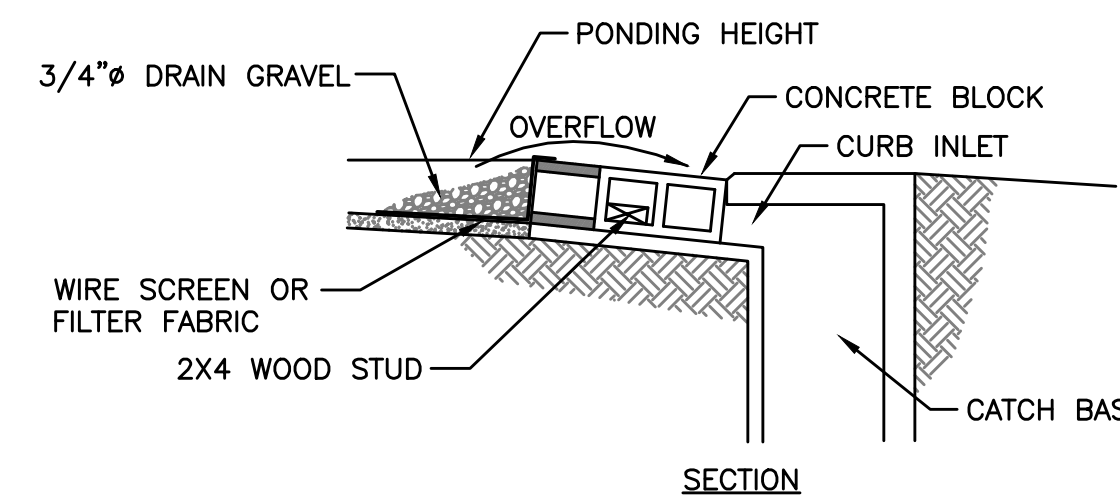
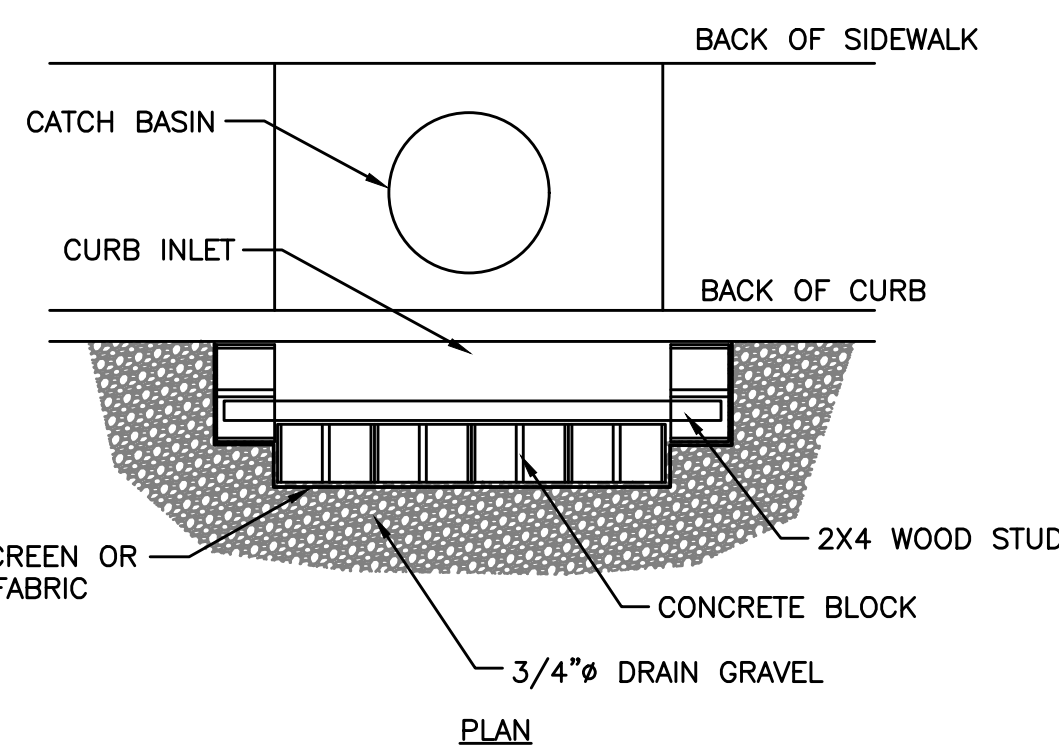


**TRENCH DETAIL FOR SEDIMENT FENCE**



**NOTES:**

1. GEOTEXTILE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE OF THE BARRIER. WHEN JOINTS CANNOT BE AVOID, GEOTEXTILE FABRIC SHALL BE SPICED TOGETHER ONLY AT A POST WITH 3 FOOT MIN. OVERLAP, AND SECURELY SEALED.
2. POSTED SHALL BE AT LEAST 5 FEET IN LENGTH
3. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE AND FABRIC.
4. WOOD POSTS SHALL BE 2 INCHES BY 2 INCHES OR EQUIVALENT. STEEL POSTS SHALL BE 1/33 LBS PER LINEAR FOOT.
5. IF REQUIRED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH IN LENGTH, WIRE TIES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE
6. TURN SILT FENCE UP SLOPE AT ENDS.

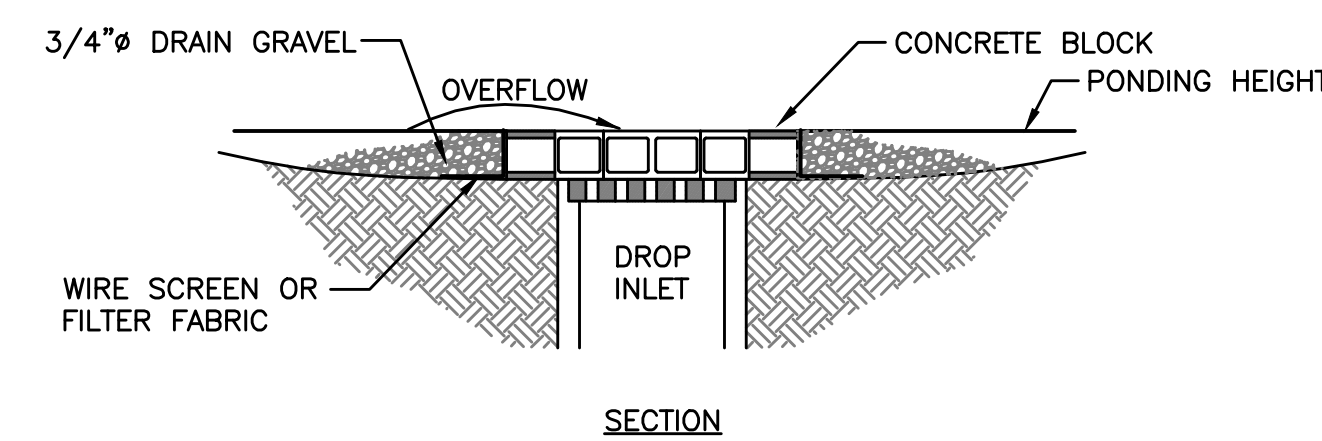
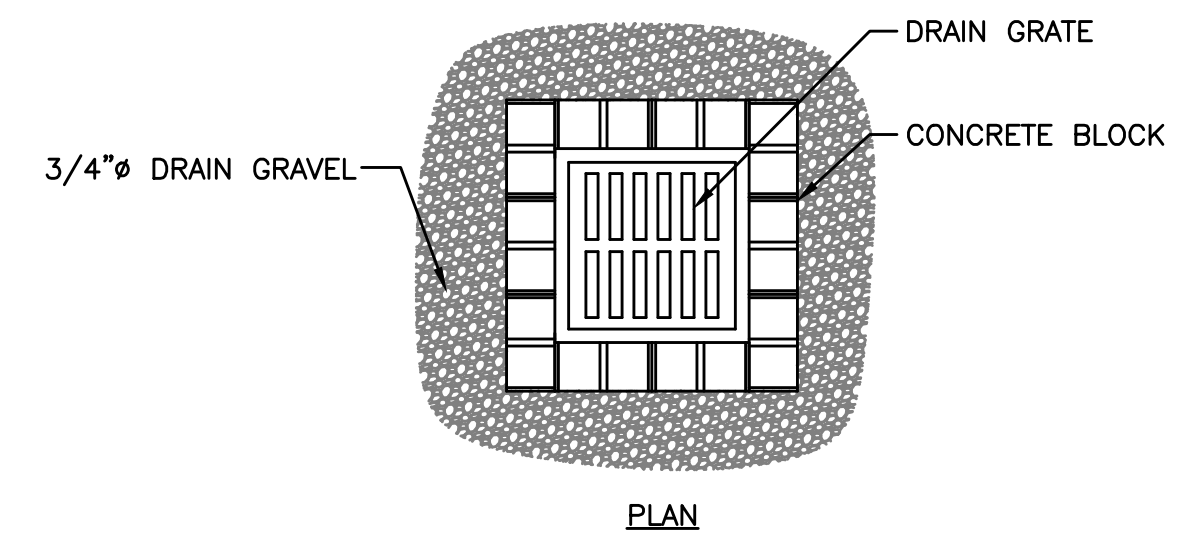


**NOTES:**

1. USE BLOCK AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**CURB INLET SEDIMENT BARRIER**

NOT TO SCALE

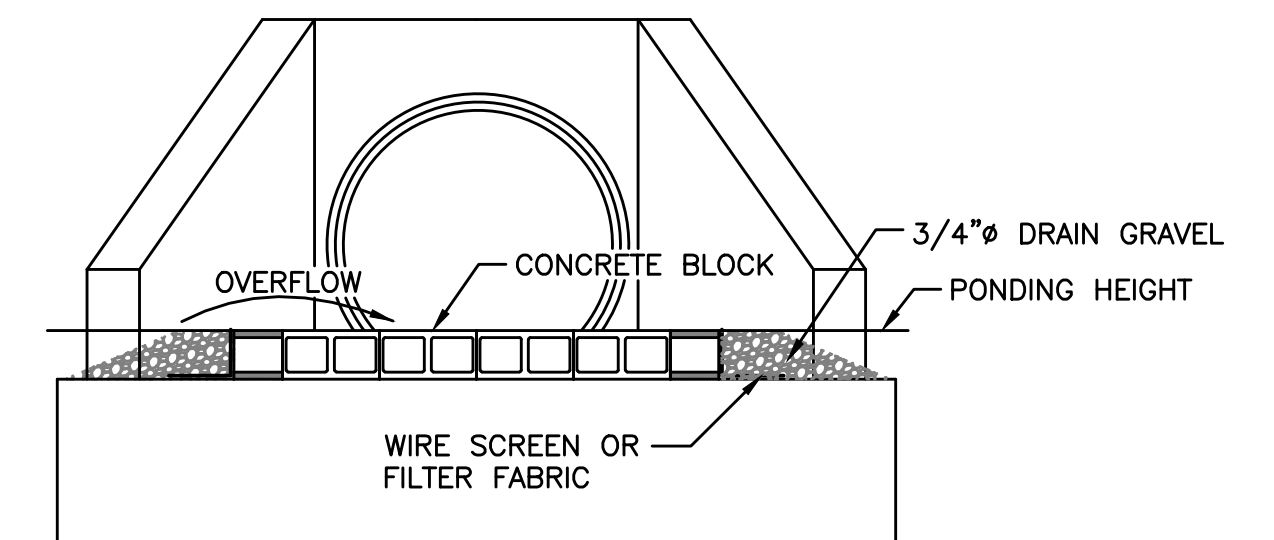
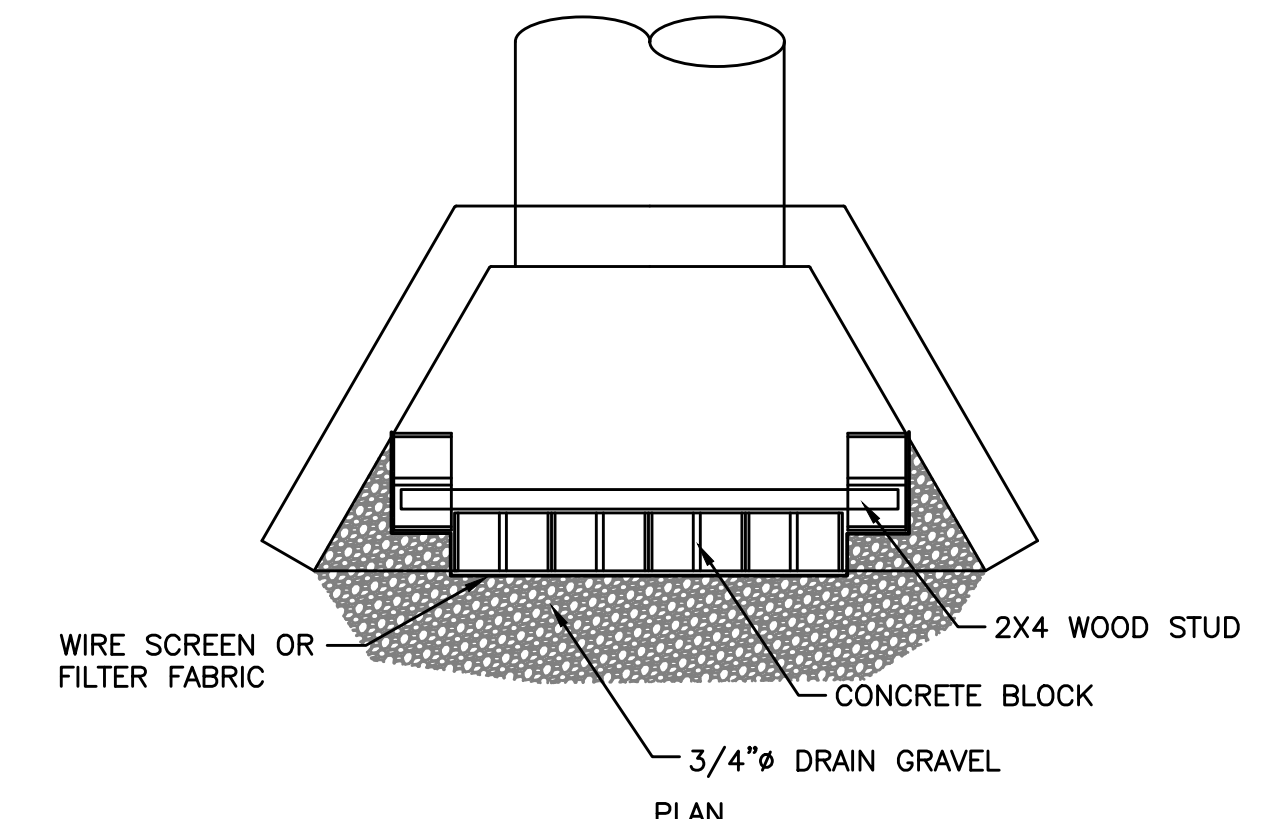


**NOTES:**

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5% SLOPE)
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

**DROP INLET SEDIMENT BARRIER**

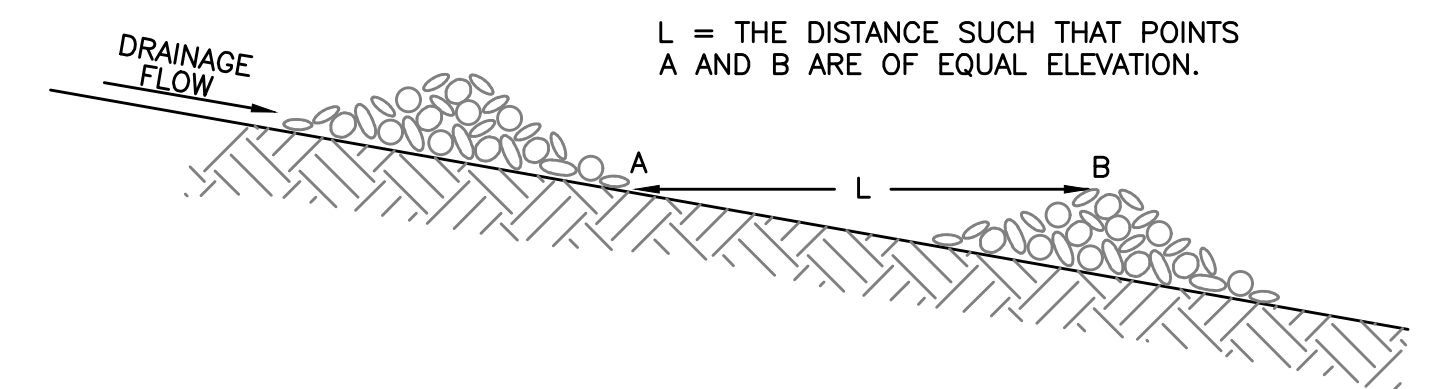
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**FRONT ELEVATION**

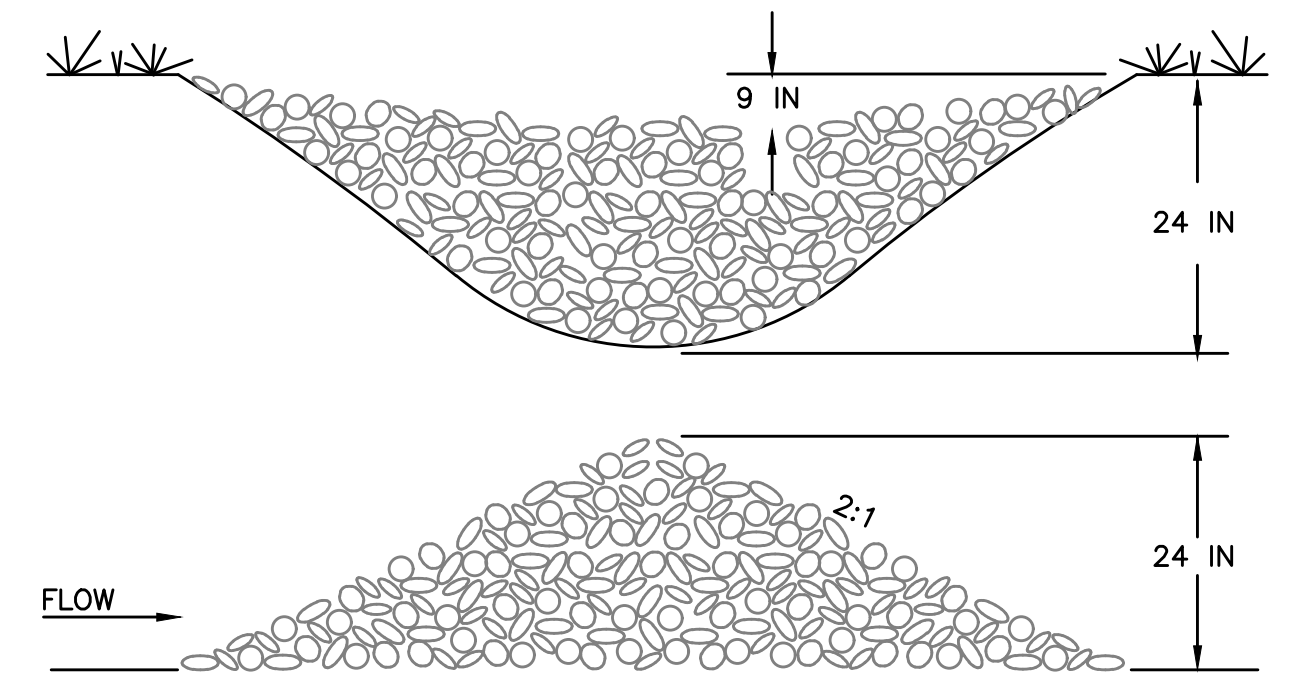
**CULVERT INLET SEDIMENT BARRIER**

NOT TO SCALE



**CHECKDAM SPACING**

N.T.S.



**NOTES:**

1. ROCK CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED 5 TO 10 INCH STONE. MECHANICAL OR HAND PLACEMENTS SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
2. INSPECT BEHIND RIPRAP CHECKDAM DAILY AND CLEAN WHEN COLLECTED DEBRIS EXCEEDS HALF OF ITS DEPTH.

**ROCK CHECK DAM**

NOT TO SCALE

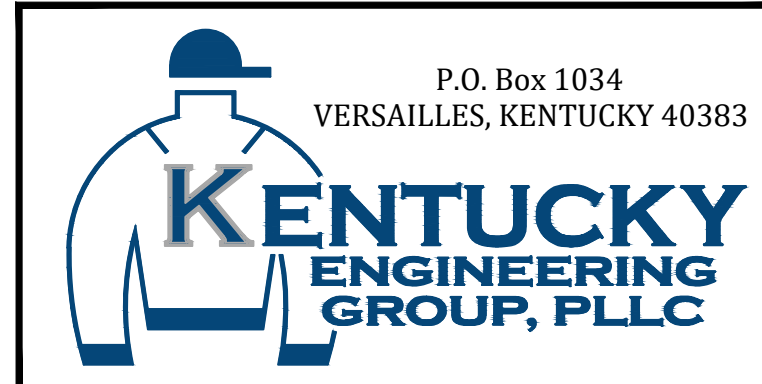
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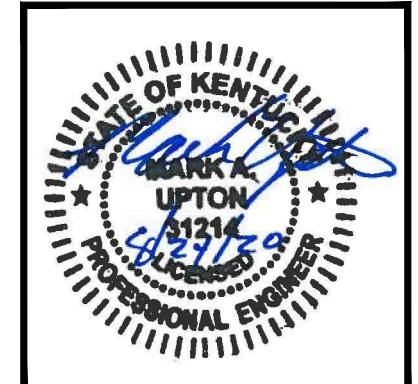
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2019 PHASE 18  
WATER AND SEWER SYSTEM IMPROVEMENTS  
WWTP INFLUENT LIFT STATION IMPROVEMENTS  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

EROSION CONTROL  
DETAILS

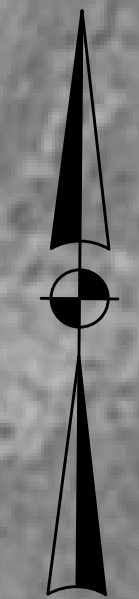


PROJECT NO.	19013
SHEET NO.	SD-00-02

**REFERENCE NOTES:**

1. MODIFY EXISTING TELEMETRY PANEL MCP LOCATED ON UPPER LEVEL INSIDE THE BUILDING FOR TWO NEW DRY WEATHER PUMPS REUSING AND RE-TERMINATING EXISTING CONTROL CONDUCTORS. CAP UNUSED HOLES UPON REMOVING UNUSED PILOT DEVICES AND TAGS ON ENCLOSURE DOOR.
2. EXISTING PUMP STATION. SEE SHEETS E-01-01 AND E-01-02 FOR REQUIRED WORK.

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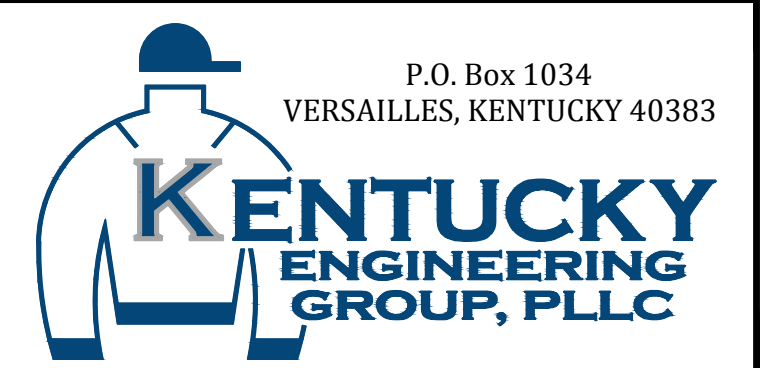


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**2019 PHASE 18**  
**WATER AND SEWER SYSTEM IMPROVEMENTS**  
 COLUMBIA ADAIR UTILITIES DISTRICT  
 COLUMBIA, ADAIR COUNTY, KENTUCKY

ELECTRICAL SITE PLAN

PROJECT NO.  
19013

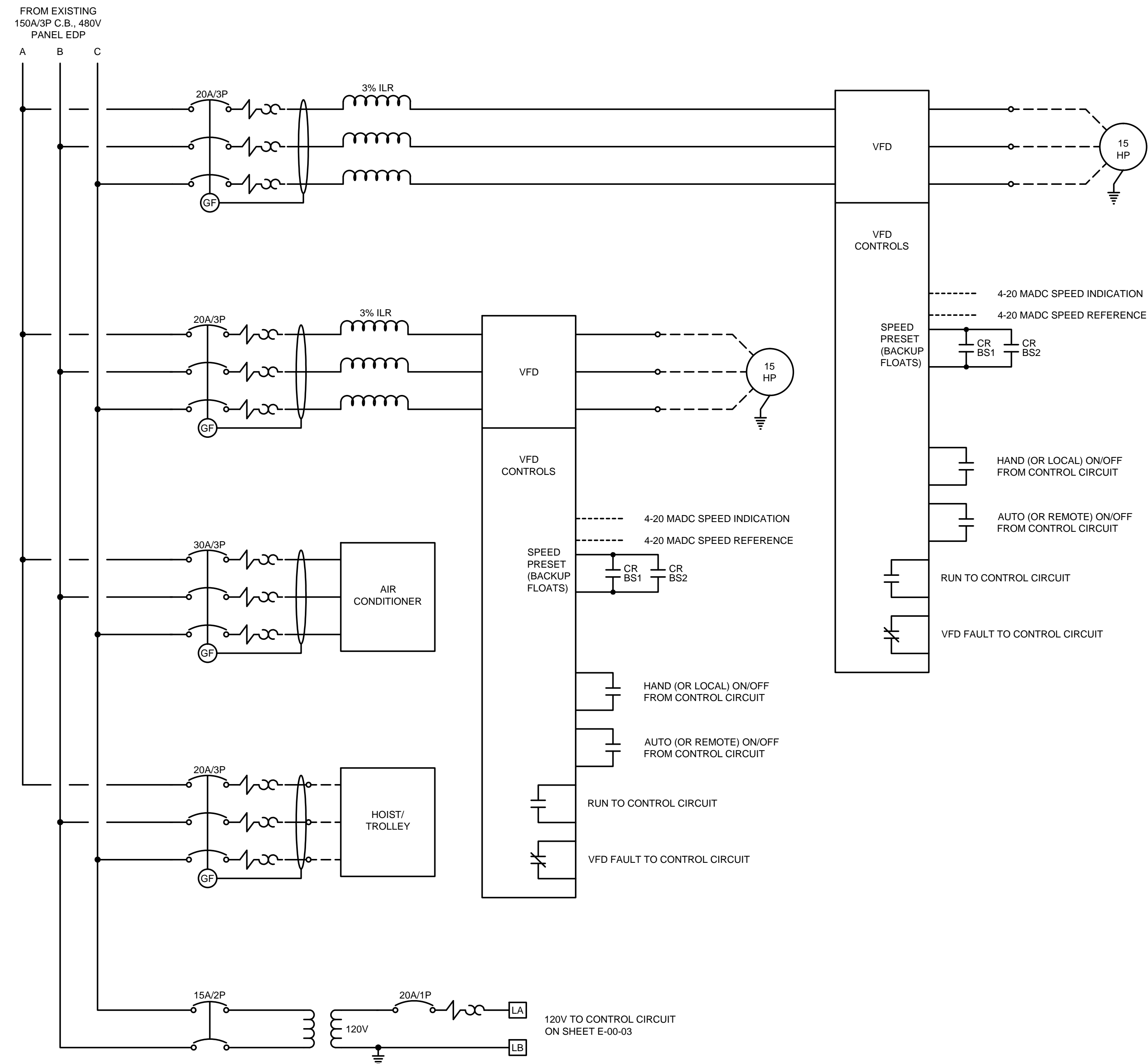
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PROJECT NO.  
19013

SHEET NO.  
E-00-01



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**TYPICAL TYPE A STARTER POWER WIRING**

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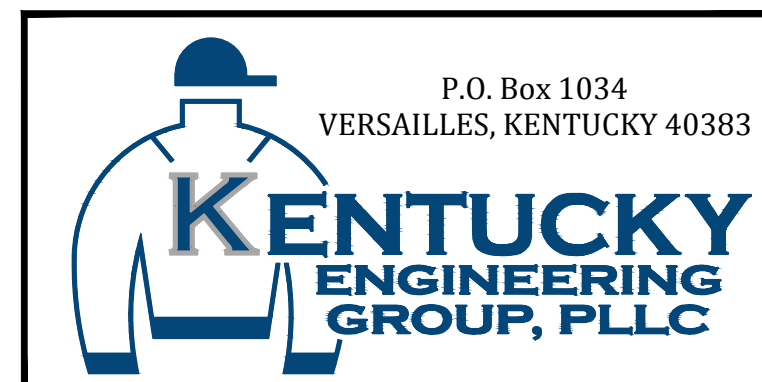


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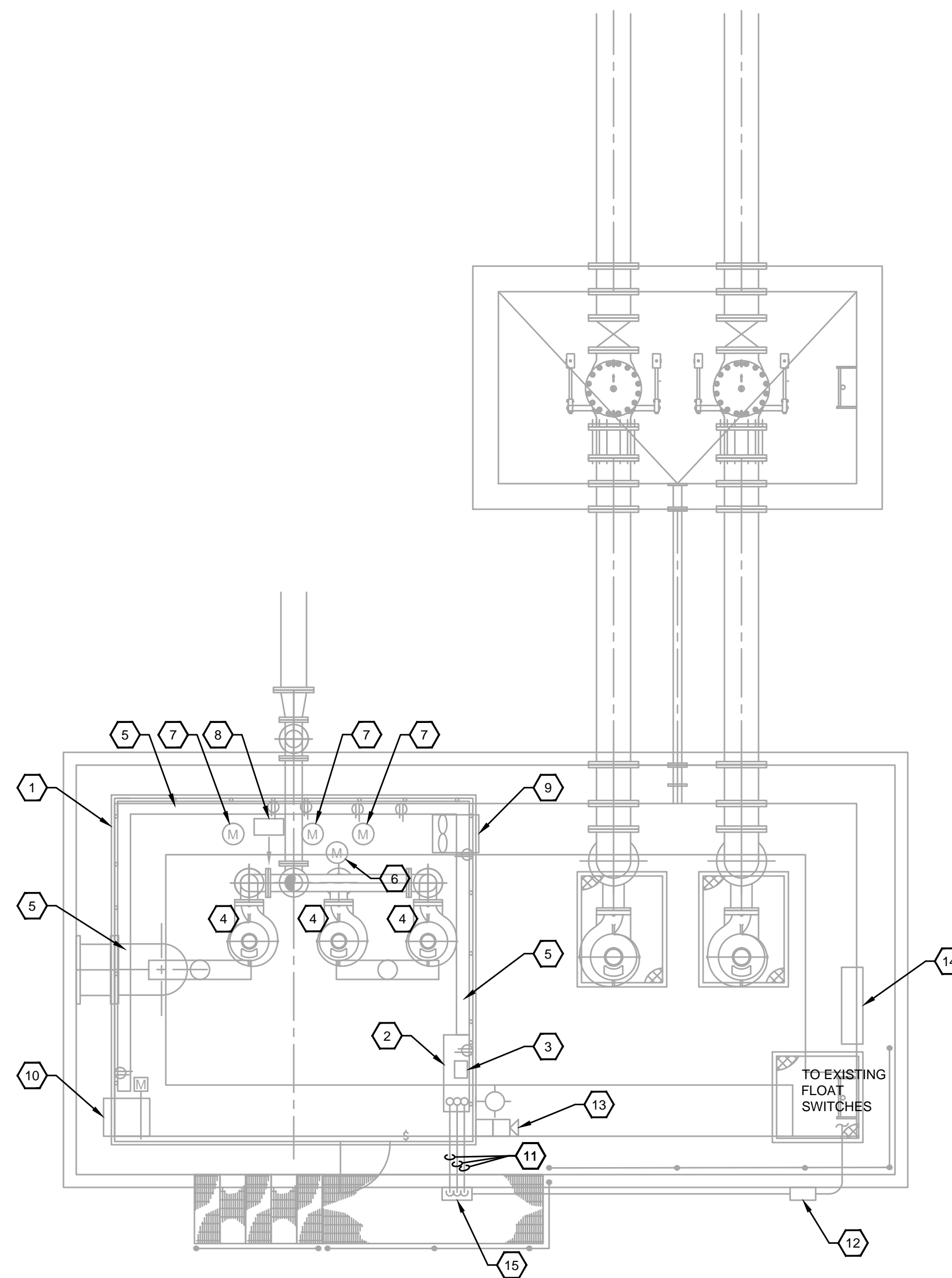
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**2019 PHASE 18**  
**WATER AND SEWER SYSTEM IMPROVEMENTS**  
COLUMBIA ADAIR UTILITIES DISTRICT  
COLUMBIA, ADAIR COUNTY, KENTUCKY

CONTROL CIRCUIT 1

PROJECT NO. 19013
SHEET NO. E-00-02



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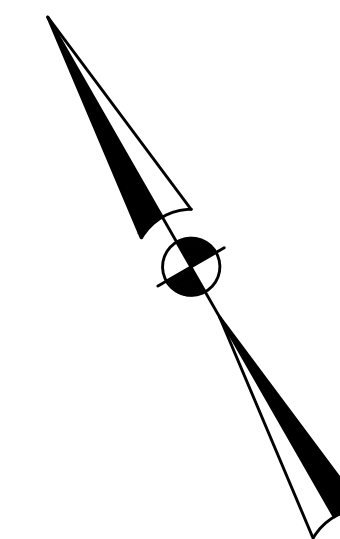


### ELECTRICAL DEMOLITION PLAN

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

### REFERENCE NOTES

1. DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT INSIDE FIBERGLASS PREFAB BUILDING FOR COMPLETE DEMOLITION, INCLUDING LIGHTS, SWITCHES, RECEPTACLES, CONDUCTORS/CONDUITS, ETC.
2. DISCONNECT AND REMOVE EXISTING PUMP CONTROL PANEL.
3. DISCONNECT AND REMOVE EXISTING 5 KVA TRANSFORMER AND ASSOCIATED CONDUCTORS/CONDUITS.
4. DISCONNECT AND REMOVE EXISTING 10 HP MOTORS ALONG WITH ASSOCIATED FEEDER/CONDUITS. (TYPICAL OF 3)
5. DISCONNECT AND REMOVE EXISTING WIREWAY.
6. DISCONNECT AND REMOVE EXISTING SUMP PUMP.
7. DISCONNECT AND REMOVE EXISTING VACUUM PUMPS. (TYPICAL OF 3)
8. DISCONNECT AND REMOVE EXISTING UNIT HEATER ALONG WITH ASSOCIATED BRANCH CIRCUIT CONDUCTORS/CONDUITS.
9. DISCONNECT AND REMOVE EXISTING EXHAUST FAN ALONG WITH ASSOCIATED BRANCH CIRCUIT CONDUCTORS/CONDUITS.
10. DISCONNECT AND REMOVE EXISTING MOTORIZED DAMPER ALONG WITH ASSOCIATED BRANCH CIRCUIT CONDUCTORS/CONDUITS.
11. DISCONNECT AND REMOVE EXISTING FEEDERS, CONTROL CONDUCTORS AND CONDUITS BETWEEN EXISTING JUNCTION BOX AND PUMP CONTROL PANEL.
12. DISCONNECT AND REMOVE EXISTING JUNCTION BOX, CONDUITS, FLOAT SWITCHES WITH CABLES.
13. DISCONNECT AND REMOVE EXISTING ALARM LIGHT/HORN, SWITCH AND ASSOCIATED CONDUCTORS/CONDUITS.
14. EXISTING CONTROL PANEL SHALL REMAIN.
15. EXISTING JUNCTION BOX, FEEDERS FROM PANEL EDP, AND CONTROL CONDUCTORS FROM CONTROL PANEL MCP TO BE REUSED.

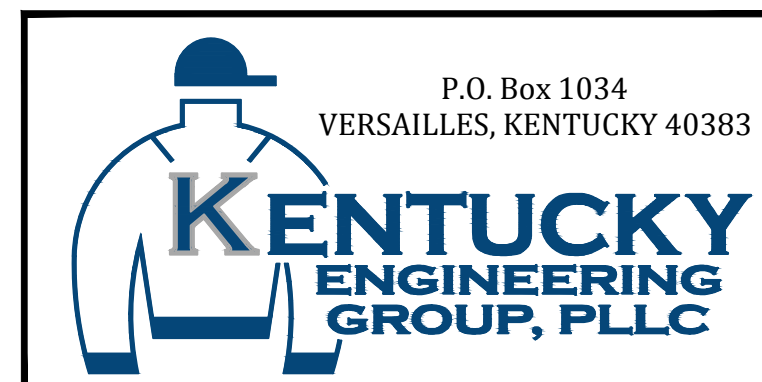


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**2019 PHASE 18**  
**WATER AND SEWER SYSTEM**  
**IMPROVEMENTS**  
 COLUMBIA ADAIR UTILITIES DISTRICT  
 COLUMBIA, ADAIR COUNTY, KENTUCKY

ELECTRICAL DEMOLITION PLAN

PROJECT NO.  
19013

SHEET NO.  
E-01-01

PROJECT NO.  
19013

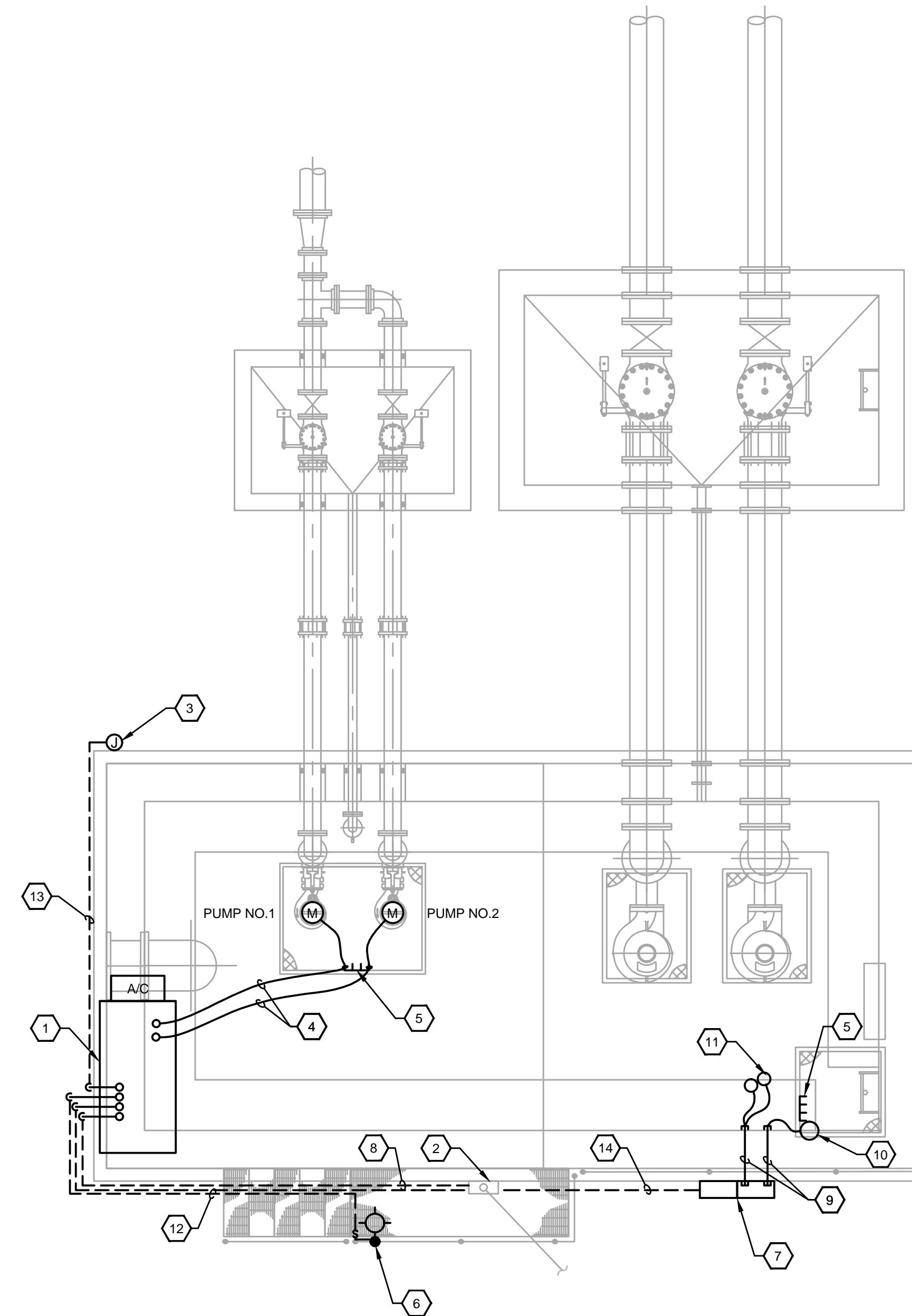
SHEET NO.  
E-01-01

**GENERAL NOTES:**

1. THE AREA INSIDE WETWELL IS CLASS 1, DIVISION 1, GROUP D. THE AREA 18" ABOVE HATCH AND 10' IN DIAMETER HORIZONTALLY IS CLASS 1, DIVISION 2, GROUP D. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC.

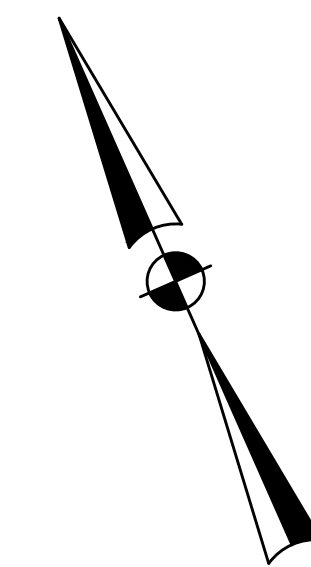
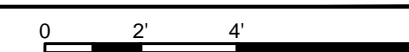
**REFERENCE NOTES**

1. PUMP CONTROL PANEL IN NEMA 4X ENCLOSURE FLOOR MOUNTED WITH LEGS MINIMUM 18" HIGH. SEE DETAIL 6 ON SHEET E-01-03. COORDINATE FINAL LOCATION WITH HOIST/TROLLEY.
2. SPLICE EXISTING FEEDERS 3#1/0, 1#6 GND FROM EXISTING PANEL EDP WITH NEW CONDUCTORS AT EXISTING JUNCTION BOX. SPLICE EXISTING CONTROL CONDUCTORS FROM TELEMETRY PANEL MCP WITH NEW CONDUCTORS. CAP UNUSED HOLES IN JUNCTION BOX.
3. HOIST/TROLLEY NEMA 4X CONTROL PANEL/JUNCTION BOX. SUPPORT USING STRUTS MINIMUM 18" TOP OF PUMP STATION SLAB. COORDINATE FINAL LOCATION WITH FURNISHED EQUIPMENT.
4. PUMP CABLES THROUGH 2-2" SLEEVES INTO CONTROL PANEL USING CROUSE HINDS CBGS CABLE GLAND CONNECTORS.
5. PUMP/FLOAT SWITCH CABLE SUPPORT BRACKET UNDER HATCH. SEE DETAIL 1 ON SHEET E-01-03.
6. LED CLASS 1, DIVISION 2 HAZARDOUS LOCATION RATED LIGHTING FIXTURE AND WEATHERPROOF SWITCH MOUNTED ON STANCHION USING SWIVEL BRACKET PER DETAIL 2 ON SHEET E-01-03. LIGHTING FIXTURE BY ARCUS LIGHT, MODEL PRO-HL-SB-PPC-RV-120'-5K-120W-S.
7. WALL MOUNTED STAINLESS STEEL NEMA 4X DOUBLE JUNCTION BOX. SEE DETAIL 4 ON SHEET E-01-03.
8. 3#1/0, 1#6 GND, 1 1/2".  
8#14, 1#14 GND, 3/4".  
SUPPORT CONDUIT ALONG OUTSIDE OF PUMP STATION WALL.
9. 2-2" CONDUIT SLEEVES WITH END BUSHING FOR LEVEL TRANSDUCER AND FLOAT SWITCH CABLES. CORE DRILL SIDE OF PUMP STATION WALL.
10. LEVEL TRANSDUCER STILLING WELL PER DETAIL 5 ON SHEET E-01-03.
11. FOUR FLOAT SWITCHES PER DETAIL 5 ON SHEET E-01-03.
12. 3#12, 3/4" TO FLOODLIGHT. SUPPORT CONDUIT ALONG OUTSIDE OF PUMP STATION WALL.
13. 3#12, 3/4" TO HOIST/TROLLEY CONTROL PANEL. SUPPORT CONDUIT AS REQUIRED.
14. 8#14, 1#14 GND IN 3/4".  
1#18 SHIELDED TWISTED PAIR CABLE IN 3/4".  
SUPPORT CONDUITS ALONG OUTSIDE OF PUMP STATION WALL.



**INFLUENT PUMP STATION PLAN**

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



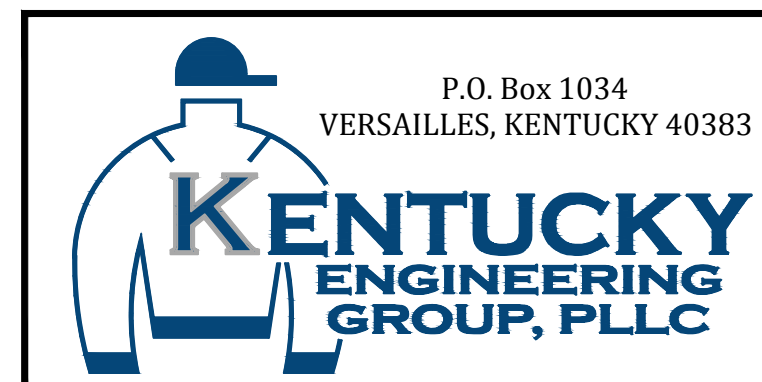
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NO.	DATE	REVISIONS	BY

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PROJECT MGR:	
DRAWN BY:	YNR
CHECKED BY:	
SCALE:	AS NOTED
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CONTRACT No. 2  
**2019 PHASE 18**  
**WATER AND SEWER SYSTEM IMPROVEMENTS**  
 COLUMBIA ADAIR UTILITIES DISTRICT  
 COLUMBIA, ADAIR COUNTY, KENTUCKY

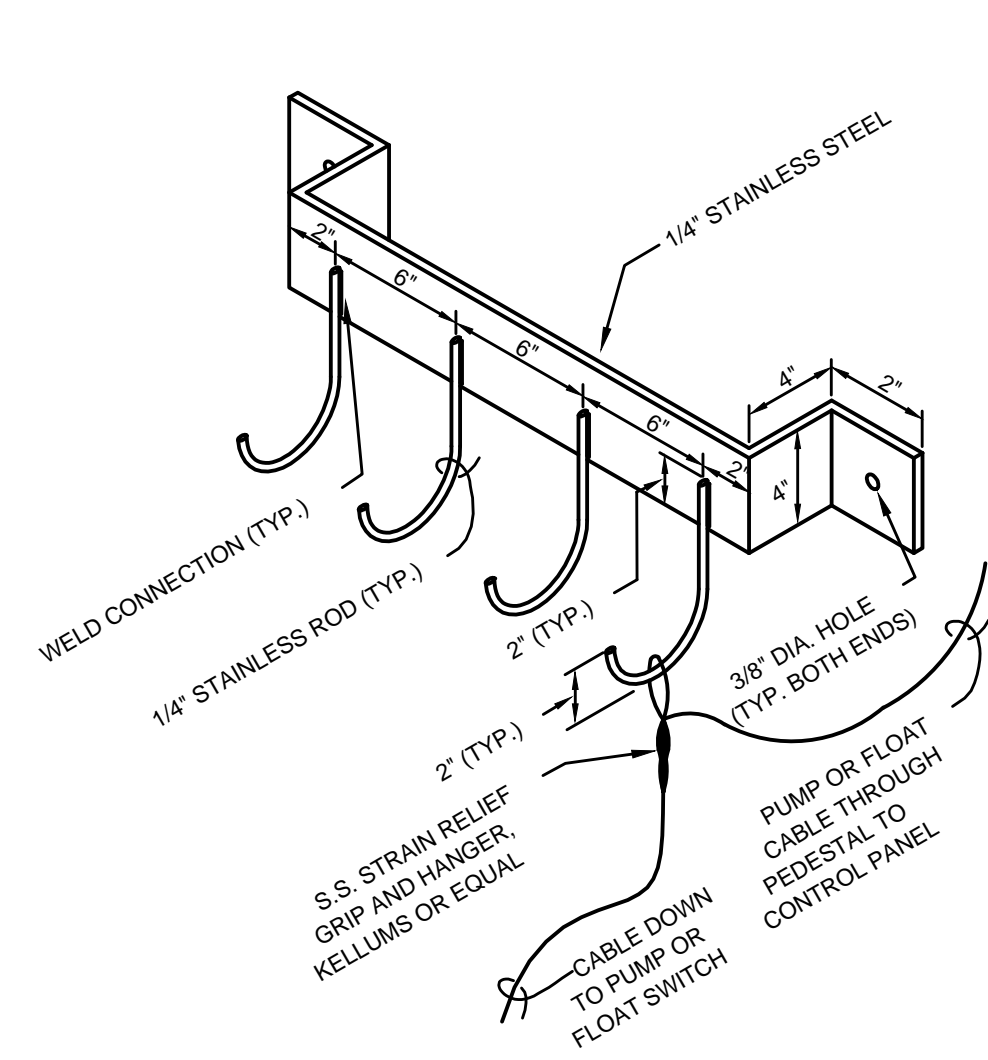
ELECTRICAL PLAN

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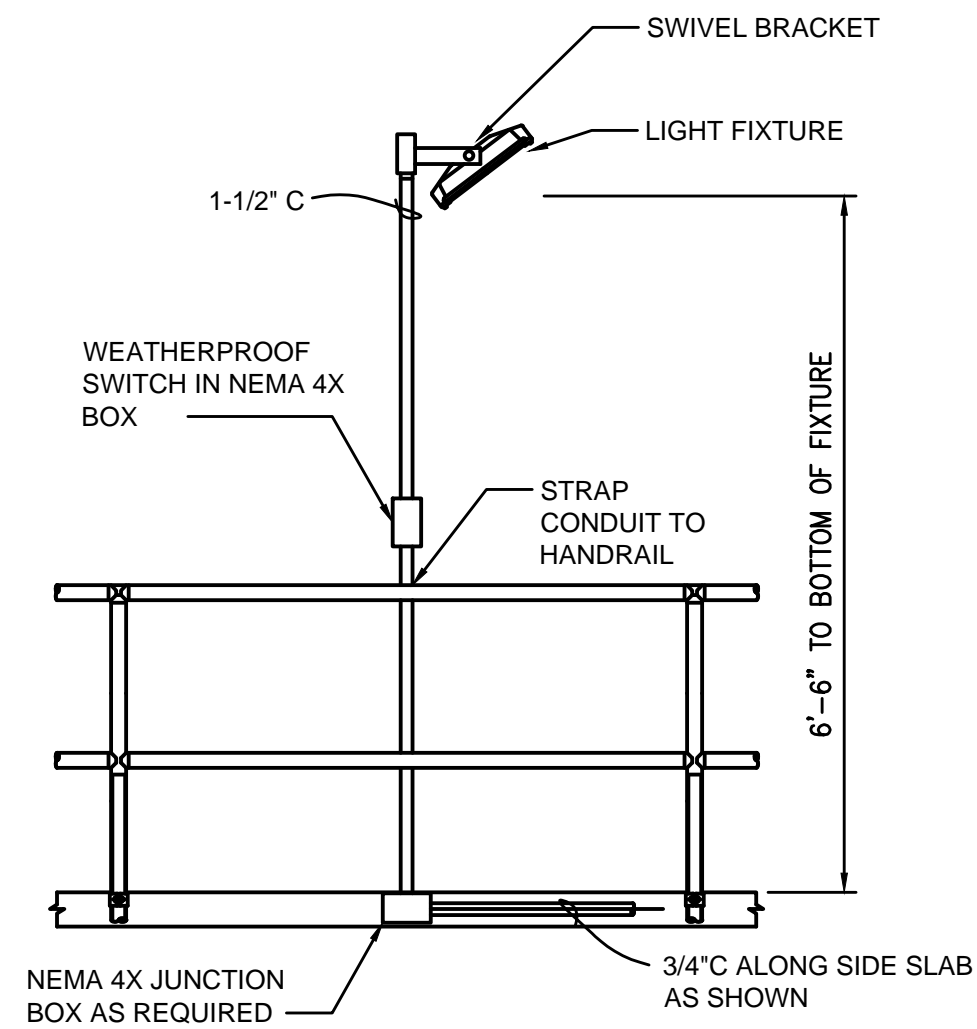
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E-01-02

PROJECT NO.  
19013

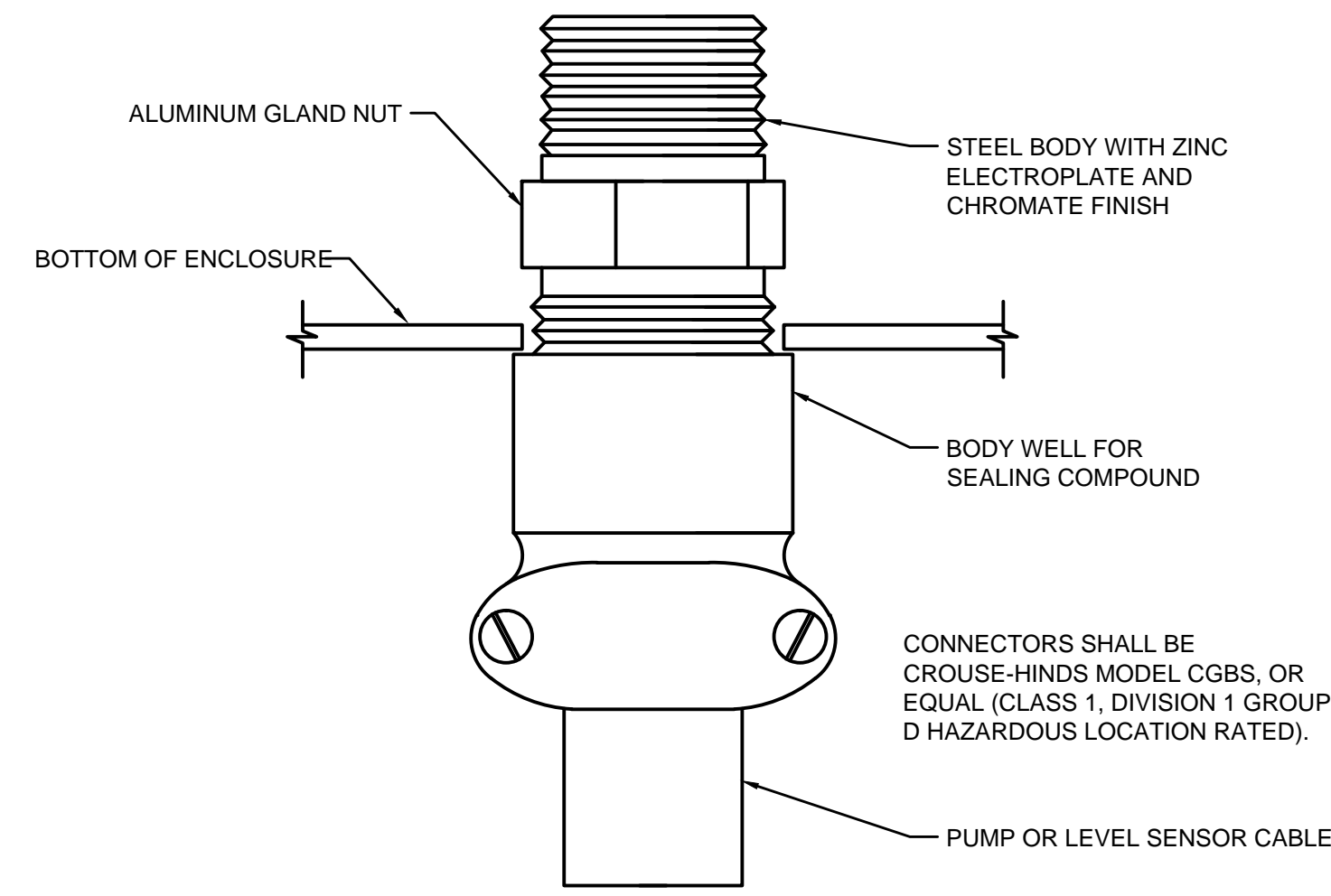
SHEET NO.  
E-01-02



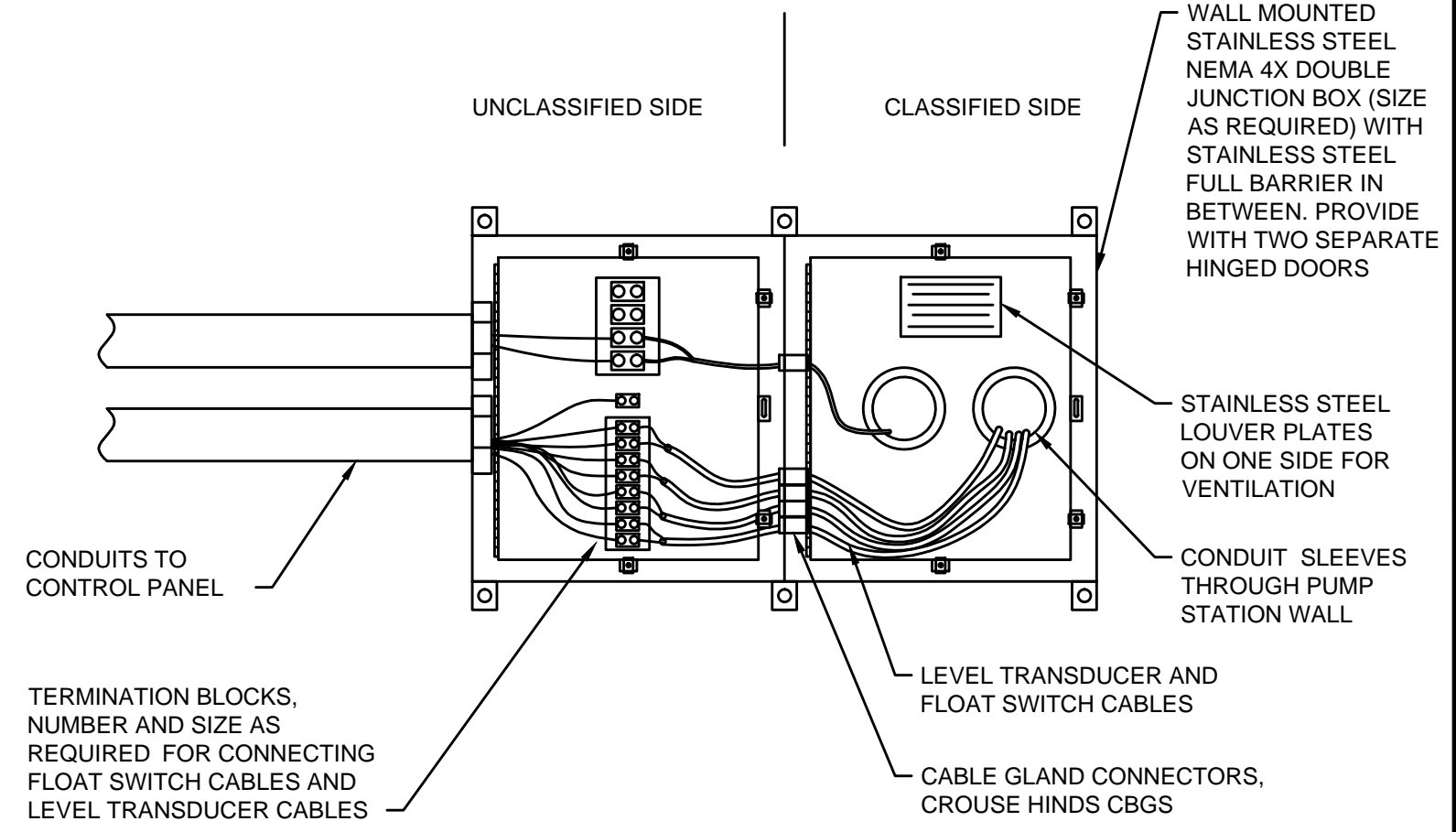
**1** PUMP CABLE/LEVEL SWITCH HOLDER  
NOT TO SCALE



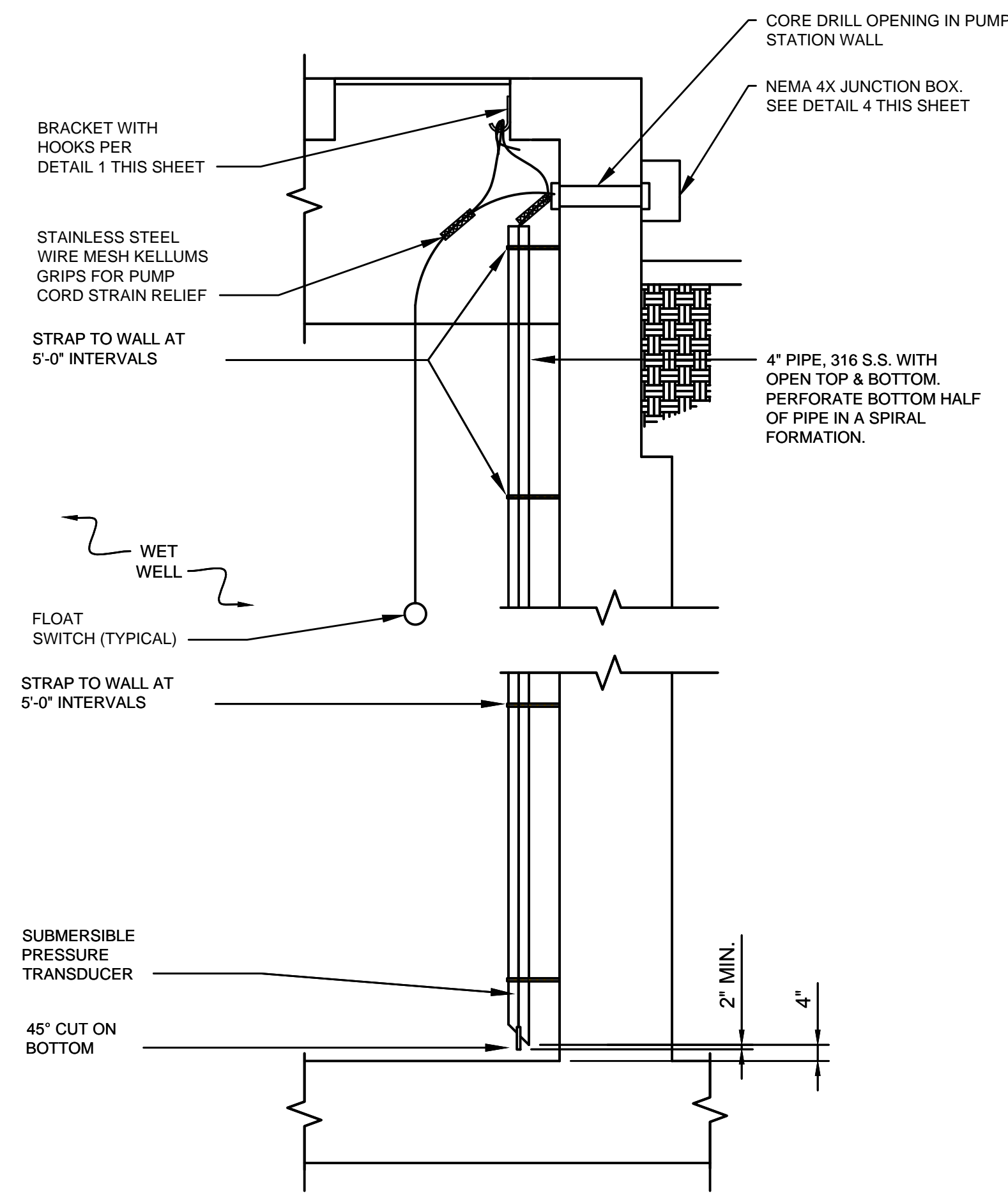
**2** FLOODLIGHT MOUNTING DETAIL  
NOT TO SCALE



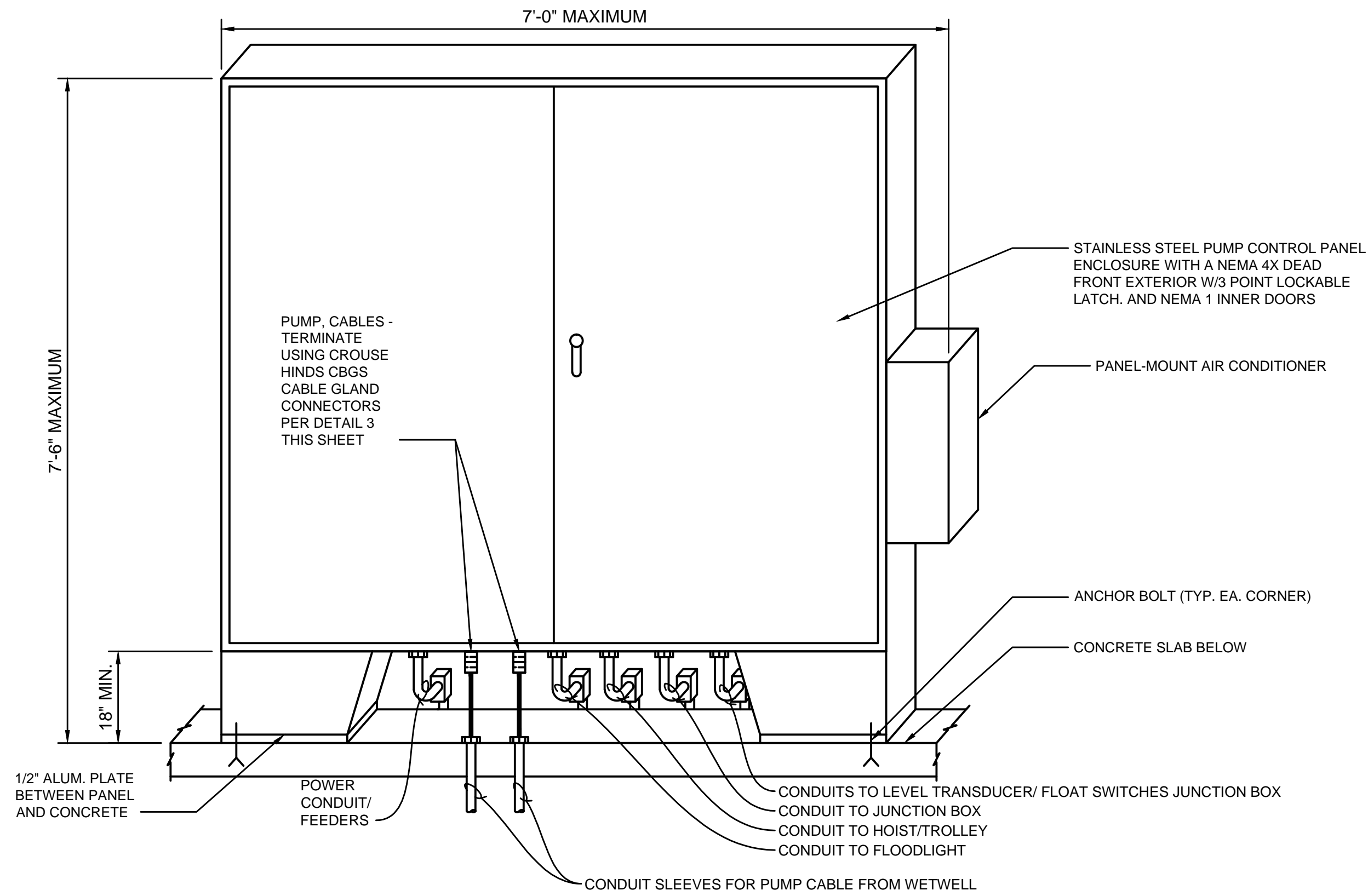
**3** PUMP & FLOAT SWITCH CABLE GLAND CONNECTION  
NOT TO SCALE



**4** WALL-MOUNT DOUBLE JUNCTION BOX  
NOT TO SCALE



**5** STILLING WELL INSTALLATION  
NOT TO SCALE



**6** FREE STANDING PUMP CONTROL PANEL  
NOT TO SCALE

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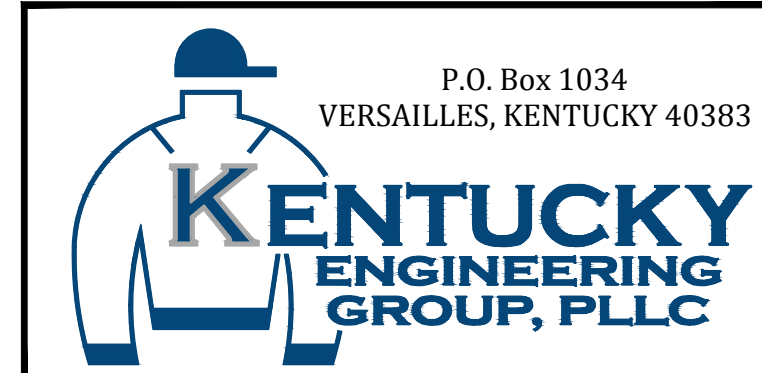


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SCALE:	AS NOTED
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**2019 PHASE 18**  
 WATER AND SEWER SYSTEM  
 IMPROVEMENTS  
 COLUMBIA ADAIR UTILITIES DISTRICT  
 COLUMBIA, ADAIR COUNTY, KENTUCKY

ELECTRICAL DETAILS

PROJECT NO.  
19013

SHEET NO.  
E-01-03

PROJECT NO.  
19013

SHEET NO.  
E-01-03