

CONTRACT NO. 37 - FIBROTEX SANITARY SEWER PUMP STATION AND FORCE MAIN

JULY 2022

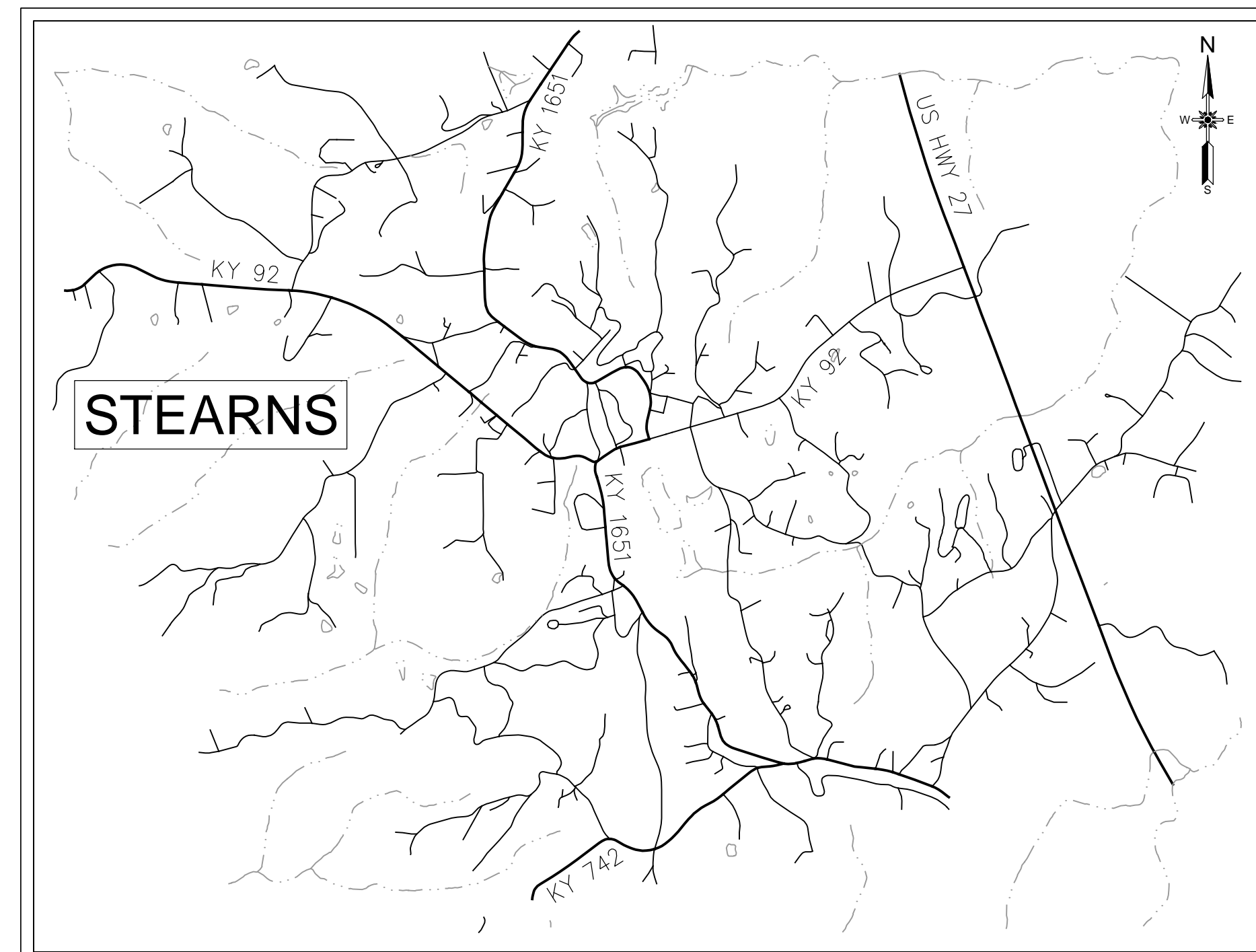
Prepared For:

McCREARY COUNTY WATER DISTRICT

456 N. HWY 27

WHITLEY CITY, KENTUCKY 42653

VICINITY



SCALE: 1"=2000'

LOCATION



SCALE: 1"=500'



INDEX OF DRAWINGS

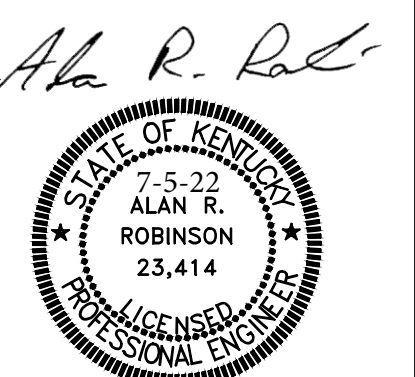
1	COVER - LOCATION & VICINITY MAPS, INDEX OF DRAWINGS
2	GENERAL NOTES, ABBREVIATIONS, LEGEND AND UTILITIES
3-8	PLAN VIEW
9-11	PROFILE LINE A
12	PROFILE LINE G
13	PUMP STATION SITE PLAN
14	PUMP STATION DETAILS AND SECTIONS
15-22	PUMP STATION ELECTRIC
23-24	STANDARD DETAILS
M-1	SCREEN DEMO PLAN AND SECTION
M-2	SCREEN IMPROVEMENTS PLAN AND SECTION
M-3	SCREEN SYSTEM DETAILS

BOARD OF COMMISSIONERS

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 MARK SUMNER
 DOUG SEXTON
 COY TAYLOR
 RAYMOND TAYLOR
 STEPHEN WHITAKER, SUPERINTENDENT

EDA INVESTMENT NUMBER:

04-79-07457



GENERAL NOTES

- MINIMUM COVER OVER PROPOSED WATER AND SANITARY SEWER LINES SHALL BE 42".
- MINIMUM COVER OVER VALVE NUT TO BE 12". MAXIMUM COVER OVER VALVE NUTS TO BE 48". WHERE VALVES ARE BURIED DEEPER THAN 48", A 3/4" OR 1" SOLID STEEL VALVE OPERATING NUT EXTENSION SHALL BE REQUIRED AND SECURED TO VALVE OPERATING NUT.
- CONTRACTOR SHALL HAVE THE OWNER'S PERSONNEL ON SITE WHEN DIGGING OVER OR AROUND THE OWNER'S UTILITY LINES. CONTRACTOR SHALL SCHEDULE EXCAVATION WITH RESIDENT OBSERVER.
- EXACT SIZES, DEPTHS, MATERIALS AND LOCATIONS OF EXISTING UTILITIES ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THESE FAR ENOUGH IN ADVANCE OF THE PIPELINE OPERATION SO AS NOT TO CAUSE ANY UNNECESSARY DELAYS. RELOCATION OF EXISTING UTILITIES FOUND TO BE IN DIRECT CONFLICT AND UNAVOIDABLE PER THE ENGINEER'S DISCRETION WITH THIS CONTRACT SHALL BE ACCOMPLISHED BY THE OWNER OF THE UTILITIES INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES HAVING UTILITIES IN THE AREA PRIOR TO EXCAVATION. CONTINUOUS COMMUNICATIONS ON A DAY TO DAY BASIS WILL BE REQUIRED. THE UTILITY COMPANIES ARE LISTED BELOW.
- KENTUCKY STATUTES (KRS 367.4901 THRU 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL CALL ALL UTILITY COMPANIES IN THE AREA AND AN UNDERGROUND PROTECTION SERVICE SUCH AS "BUD" (1-800-752-6007) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO NOTIFY UTILITY COMPANIES IN THE AREA WITH UNDERGROUND UTILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.
- FITTINGS SHALL BE RESTRAINED JOINT (R.J) WHERE NOTED ON PLANS.
- WHEREVER POSSIBLE, FIRE HYDRANTS SHALL BE LOCATED FOR MINIMUM DEPTH OF BURY. EXTENSIONS SHALL BE REQUIRED FOR DEEPER INSTALLATIONS.
- ALL TIE-IN LOCATIONS SHALL BE UNCOVERED PRIOR TO CONSTRUCTION TO MAINTAIN PROPER ALIGNMENT AND ELEVATION OF NEW CONNECTIONS.
- CONTRACTOR SHALL INVENTORY REQUIRED MATERIALS, TRENCH DEWATERING EQUIPMENT, AND ASSEMBLE IF NECESSARY ALL REQUIRED FITTINGS PRIOR TO CUT-INS SO TO ENSURE MINIMUM DOWN TIME FOR CONNECTION.
- SURFACE DRAINAGE SHALL BE MAINTAINED ON A DAY-BY-DAY BASIS.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF OR REGRADE ALL EXCESS EXCAVATED MATERIAL FROM WATER LINE AND SERVICE LINE CONSTRUCTION THAT IS NOT PERMITTED TO BE BACKFILLED OVER THE PIPE.
- EXCAVATION IN ALL STREETS, DRIVEWAYS AND PAVED PARKING AREAS SHALL BE BACKFILLED PER THE SPECIFIED TOP OF TRENCH SURFACE.
- ALL ROCKS, EARTH CLODS AND OTHER LARGE MATERIAL SHALL BE REMOVED FROM THE TRENCH BOTTOM PRIOR TO PLACEMENT OF THE BEDDING.
- ALL CULVERTS AND CROSS DRAINS AT STREETS, DRIVES AND ENTRANCES NEAR THE WORK AREA SHALL BE PROTECTED. IF IN THE PATH OF THE WORK, THE RESIDENT OBSERVER SHALL BE NOTIFIED, AND THE CONTRACTOR SHALL AVOID THESE UTILITIES WITH ADDITIONAL FITTINGS IF NECESSARY.
- MAPPING AND ELEVATION DATA IS BASED ON USGS CONTOURING AND/OR OBTAINED ELEVATIONS ON NAVD 88.
- PROPERTY LINE AND RIGHT-OF-WAY INFORMATION WAS TAKEN FROM THE COUNTY PVA.
- EXCAVATION IS UNCLASSIFIED; NO SEPARATE PAYMENT SHALL BE MADE FOR ROCK REMOVAL.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL COMMERCIAL ESTABLISHMENTS AND RESIDENTIAL DWELLINGS.
- BENCHMARKS/CONTROL POINTS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THESE POINTS FOR LAYOUT OF THE PROPOSED WORK IN COORDINATION WITH THE ENGINEER.
- NO SEPARATE PAY ITEM HAS BEEN ESTABLISHED FOR FITTINGS AND NO DETERMINATION OF THE NUMBER OF FITTINGS REQUIRED ON THE JOB HAS BEEN MADE. THE CONTRACTOR, DURING THE BIDDING PHASE, SHALL DETERMINE THE NUMBER OF FITTINGS REQUIRED ON THE JOB AND INCLUDE THE COST OF THE FITTINGS AND INSTALLATION IN THE CONTRACT UNIT PRICE PER LF OF PIPE.
- SILT CHECKS/FENCES SHALL BE PROVIDED TO PREVENT SEDIMENT RUNOFF FROM ENTERING DRAINAGE SYSTEMS. SILT CHECKS SHALL BE INSTALLED PER SPECS.
- CONTRACTOR SHALL REPAIR OR REPLACE AREAS OF ROADS AND DRIVEWAYS DAMAGED DURING CONSTRUCTION.
- ALL NON-PAVED DISTURBED AREAS SHALL BE REVEGETATED AFTER WORK IN THE IMMEDIATE VICINITY HAS BEEN COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS. REVEGETATION SHALL BE COMPLETED NO LATER THAN TWO (2) WEEKS FOLLOWING COMPLETION OF WORK IN THE IMMEDIATE VICINITY.
- ANY ADJUSTMENT OR RELOCATIONS OF EXISTING UTILITIES, OUTSIDE THE SCOPE OF THIS WORK SHALL BE PERFORMED BY OTHERS. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT EXISTING UTILITIES TO THE MAXIMUM EXTENT PRACTICABLE. THE CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER TO MINIMIZE DISRUPTION OF EXISTING SERVICES. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER 2 DAYS IN ADVANCE OF ANY WORK WHICH REQUIRES EXISTING UTILITIES TO BE TAKEN OUT OF SERVICE.
- MUD, SEDIMENT, AND OTHER CONSTRUCTION DEBRIS TRACKED FROM ACTIVE CONSTRUCTION AREAS ONTO ROADWAYS ARE TO BE SWEEPED FROM THE ROADWAY AT THE END OF EACH WORK DAY.
- FOR EROSION CONTROL PURPOSES THE CONTRACTOR SHALL STOCKPILE EXCAVATED TRENCH MATERIAL ON THE UPHILL SIDE (OPPOSITE OF STREAM) OF EXPOSED TRENCH.
- ALL MANHOLES 4' DIAMETER UNLESS OTHERWISE NOTED.
- NEW SANITARY SEWERS WILL NOT BE ACCEPTED UNTIL ALL TESTING REQUIRED BY THE CONTRACT DOCUMENTS ARE COMPLETE.
- CONTRACTOR SHALL ENSURE THAT ALL NEW AND REPAVED AREAS ALLOW THE FOLLOWING:
 - SLOPE DIRECTS RAINFALL TO CATCH BASINS OR GRASS AREAS.
 - SLOPE DIRECTS RAINFALL AWAY FROM ALL STRUCTURES.
 - PAVEMENT AND BACKFILL IS PLACED IN A MANNER WHICH PROHIBITS PONDING.
- ALL FORCE MAINS SHALL BE MARKED BY USING DETECTABLE MYLAR SEWER (GREEN) LINE TAPE APPROVED BY THE ENGINEER. (A MINIMUM OF 18" BELOW GRADE).
- SEPTIC TANK AND HOLDING TANK LOCATIONS (IF SHOWN) ARE APPROXIMATE. CONTRACTOR SHALL VERY LOCATION OF TANKS AND DEPTH OF LATERAL FROM HOUSE PRIOR TO THE DEVELOPEMENT OF MANHOLE SHOP DRAWINGS AND PRIOR TO ANY OTHER EXCAVATION. IF ANY LATERAL LINES ARE FOUND TO BE UNUSUALLY DEEP (MORE THAN 3 FEET OF COVER) THEN THE CONTRACTOR IS RESPONSIBLE TO BRING HIS/HER FINDINGS TO THE ENGINEER PRIOR TO BEGINNING THE WORK.

EDA SPECIAL NOTE

IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED DURING PROJECT ACTIVITIES, ALL WORK SHOULD BE IMMEDIATELY STOPPED IN THE AREA. THE AREA SHOULD BE CORDONED OFF, AND IN ACCORDANCE WITH KRS 72.020 THE COUNTY CORONER AND LOCAL LAW ENFORCEMENT MUST BE CONTACTED IMMEDIATELY. UPON CONFIRMATION THAT THE HUMAN REMAINS ARE NOT OF FORENSIC INTEREST, THE UNANTICIPATED DISCOVERY MUST BE REPORTED TO THE KENTUCKY HERITAGE COUNCIL.

ABBREVIATIONS

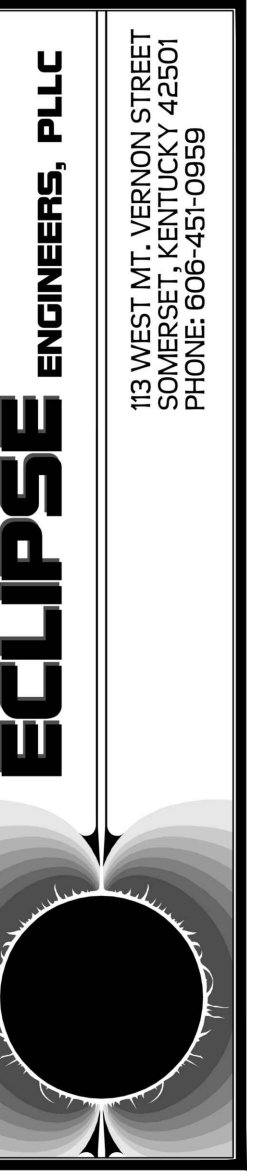
AV _____ AIR/VACUUM VALVE	MH _____ MANHOLE
B _____ BOTTOM	MAX. _____ MAXIMUM
C.I. _____ CAST IRON	M.J. _____ MECHANICAL JOINT
CL _____ CENTERLINE	MIN. _____ MINIMUM
CMP _____ CORRUGATED METAL PIPE	OC _____ OPEN CUT
CO _____ CLEAN OUT	O.D. _____ OUTSIDE DIAMETER
CONC. _____ CONCRETE	P.E. _____ POLYETHYLENE
CONST. _____ CONSTRUCT	PROP. _____ PROPOSED
CPP _____ CORRUGATED PLASTIC PIPE	PV _____ PLUG VALVE
D _____ DRAIN	PVC _____ POLYVINYL CHLORIDE
DB _____ DIRECTIONAL BORE	RCP _____ REINFORCED CONC. PIPE
DIA, Ø _____ DIAMETER	REINF. _____ REINFORCE(D)
D.I. _____ DUCTILE IRON	REQ. _____ REQUIRED
D.I.P. _____ DUCTILE IRON PIPE	R.J. _____ RESTRAINT JOINT
DIST. _____ DISTURBED	RW _____ RAW WATER
EL. , ELEV. _____ ELEVATION	SCHED. _____ SCHEDULE
EOP _____ EDGE OF PAVEMENT	S.S. _____ SANITARY SEWER
EX. , EXIST. _____ EXISTING	ST _____ SEPTIC TANK
FH _____ FIRE HYDRANT	STL. _____ STEEL
FLH _____ FLUSHING HYDRANT	T _____ TOP
FM _____ FORCE MAIN	T.B.A. _____ TO BE ABANDONED
F.V. _____ FIELD VERIFY	T.B.R. _____ TO BE REMOVED
FC _____ FLUSHING CONNECTION	T.R. _____ TO REMAIN
GAL. _____ GALLON	TS & V-TAPPING SLEEVE AND VALVE
GALV _____ GALVANIZED	TYP. _____ TYPICAL
GL _____ GAS LINE	U.N.O. _____ UNLESS NOTED OTHERWISE
GM _____ GAS METER	VCP _____ VITRIFIED CLAY PIPE
GS _____ GAS SERVICE LINE	VERT. _____ VERTICAL
GV _____ GATE VALVE	VV _____ VALVE VAULT
HDPE _____ HIGH-DENSITY POLYETHYLENE	W _____ WATER LINE
I.E. _____ INVERT ELEVATION	WLM _____ WATER LINE MARKER
INV. _____ INVERT	WM _____ WATER METER
KDOH _____ KENTUCKY DEPARTMENT OF HIGHWAYS	WS _____ WATER SERVICE LINE
LA _____ LATERAL ASSEMBLY	UE _____ UNDERGROUND ELECTRIC
	DB _____ DIRECTIONAL BORE

LEGEND

EXISTING FEATURES	PROPOSED FEATURES
----- EX. PROPERTY LINES	----- PROP. WATERLINE
--- UGE --- UGE --- UGE --- EX. UNDERGROUND ELECTRIC LINE	----- PROP. GRAVITY SEWER
--- UGT --- UGT --- UGT --- EX. UNDERGROUND TELEPHONE LINE	===== PROP. SANITARY SEWER FORCE MAIN
--- GAS --- GAS --- GAS --- EX. GAS LINE	===== PROP. STORM SEWER PIPE
--- W --- W --- W --- EX. WATERLINE	--- x --- x --- x --- PROP. FENCE
□ □ □ □ □ □ □ □ □ □ EX. GUARDRAIL	----- PROP. INTERMEDIATE CONTOUR
----- EX. ROAD	----- 500 --- PROP. INDEX CONTOUR
----- EX. GRAVITY SEWER	⊙ PROP. SANITARY SEWER MANHOLE
--- FM --- FM --- FM --- EX. SANITARY SEWER FORCE MAIN	○ PROP. WATER METER
----- EX. STORM SEWER PIPE	○ PROP. WATER VALVE
--- x --- x --- x --- EX. FENCE	⊠ PROP. FIRE HYDRANT
----- EX. INTERMEDIATE CONTOUR	--- PROP. LINE CAP
----- 500 --- EX. INDEX CONTOUR	
----- EX. STREAM	
⊕ ⊕ BENCHMARK/CONTROL POINT	
⊙ EX. SANITARY SEWER MANHOLE	
⊙ EX. SANITARY SEWER CLEANOUT	
⊠ EX. HEADWALL	
⊕ EX. TREES	
⊠ EX. POWER POLE	
→ EX. GUY WIRE	
⊙ EX. GAS METER	
⊕ Gv EX. GAS VALVE	
⊙ WM EX. WATER METER	
⊙ WV EX. WATER VALVE	
⊙ EX. FIRE HYDRANT	

UTILITIES

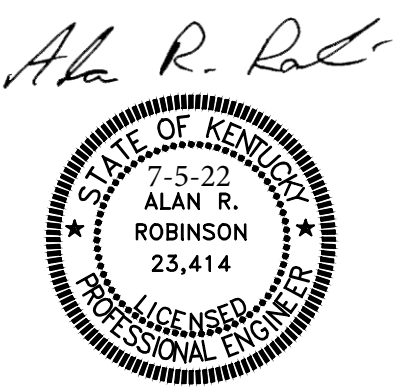
TELEPHONE : HIGHLAND TELEPHONE CO-OP 26 CRIT KING ROAD WHITLEY CITY, KENTUCKY 42653 PHONE (606) 376-5311	POWER : KENTUCKY UTILITIES 180 SUBSTATION STREET LONDON, KENTUCKY 40741 MR. DAVID OSBORNE PHONE (606) 864-2821 EXT. 13	GAS : DELTA NATURAL GAS 367 LEXINGTON ROAD WINCHESTER, KENTUCKY 40391 MR. STEVE LEWIS PHONE (859) 744-6171 EXT. 1167
FIBER OPTIC : AT&T 131 AMESBURY AVE. MIDDLESBORO, KENTUCKY 41965 MR. ODELL KEENE PHONE (606) 248-7243	WATER : McCREARY COUNTY WATER DISTRICT 456 N. HWY 27 WHITLEY CITY, KENTUCKY 42653 MR. STEPHEN WHITAKER PHONE: 606-376-2540	SANITARY SEWER : McCREARY COUNTY WATER DISTRICT 456 N. HWY 27 WHITLEY CITY, KENTUCKY 42653 MR. STEPHEN WHITAKER PHONE: 606-376-2540
CABLE : SPECTRUM 5026 SOUTH HIGHWAY 27 SOMERSET, KENTUCKY 42501 MR. DARRELL NAVE OFFICE (606) 678-9215, EXT. 404 CELL : (606) 271-2501		



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CHECKED BY:	WBD	WBD	REVISION:
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DATE:	19014	19014	
CAD DWG ID:	DECEMBER 2021	DECEMBER 2021	
	JOB: 1014 - FIBROTEX, PA & WWTP IMP		

McCREARY COUNTY
WATER DISTRICT
456 N. HWY 27
WHITLEY CITY, KENTUCKY 42653

GENERAL NOTES, ABBREVIATIONS,
LEGEND AND UTILITIES
CONTRACT No. 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN





SCALE:	DESIGNED BY:	REVISION:	BY:	DATE:
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McCREARY COUNTY
WATER DISTRICT
456 N. HWY 27
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PLAN - LINE A & G

CONTRACT No. 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN

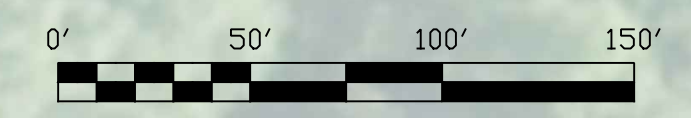
Alan R. Robinson





KEYNOTES

- ① CONTRACTOR SHALL CUT AND CAP EX. 4" FM NEAR THIS LOCATION.



Alan R. Robinson
 STATE OF KENTUCKY
 7-5-22
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER

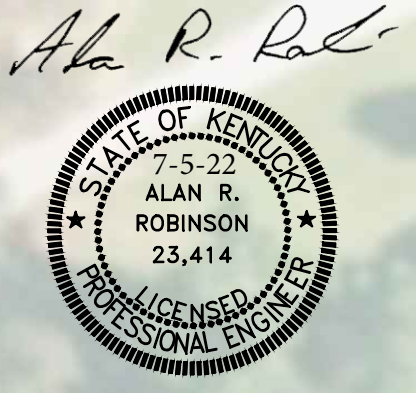
ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 BOWLING GREEN, KY 42301
 PHONE: 606-481-9589

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	CAD DWG ID: JOB 19014 FIBROTEX FM & WWTP MAP			

McCREARY COUNTY
WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PLAN - LINE A
CONTRACT No. 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN

SHEET NUMBER:
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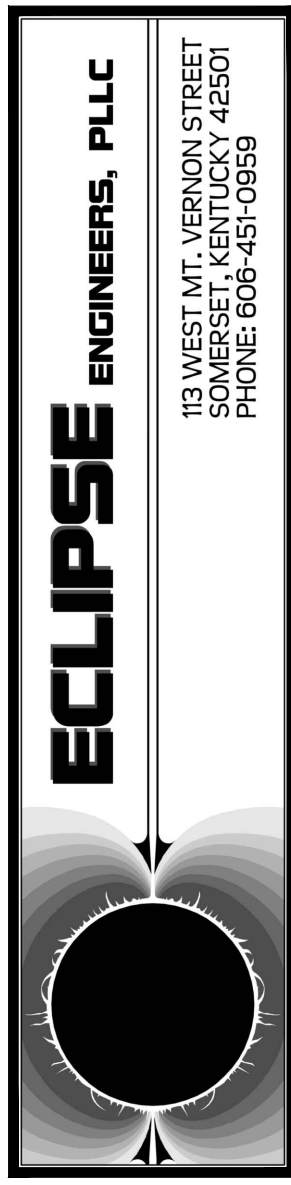
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 113 WEST MT. VERNON STREET
 SOMERSET, KENTUCKY 42501
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MCCREARY COUNTY
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 456 N. HWY 27
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PLAN - LINE A
CONTRACT No. 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN

SHEET NUMBER:
5



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MCCREARY COUNTY
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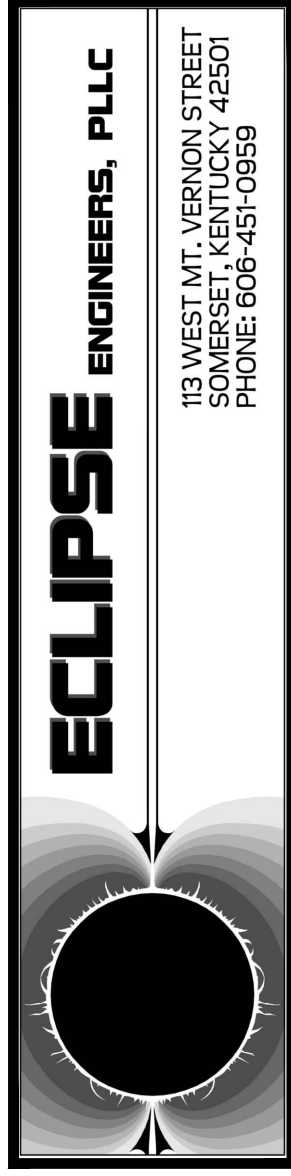
PLAN - LINE A
CONTRACT No. 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN

SHEET NUMBER:
6

Alan R. Robinson
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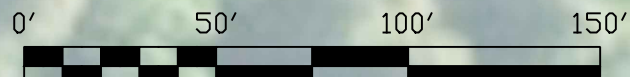
McCREARY COUNTY
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PLAN - LINE A
CONTRACT No. 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN

SHEET NUMBER:
7



Alan R. Robinson
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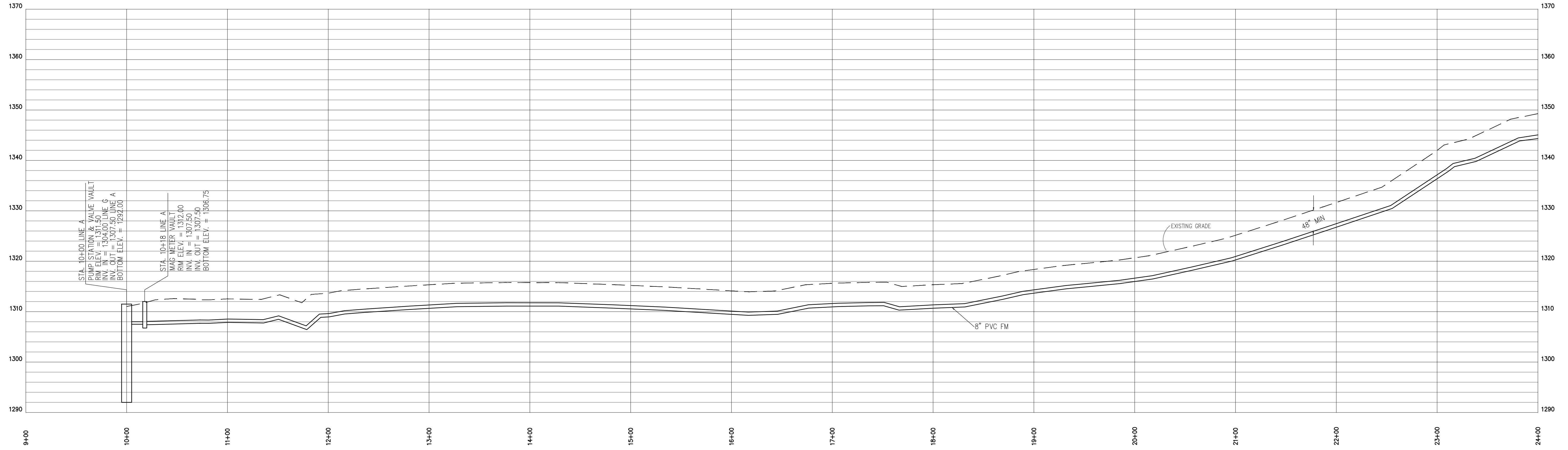
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PLAN - LINE A
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN

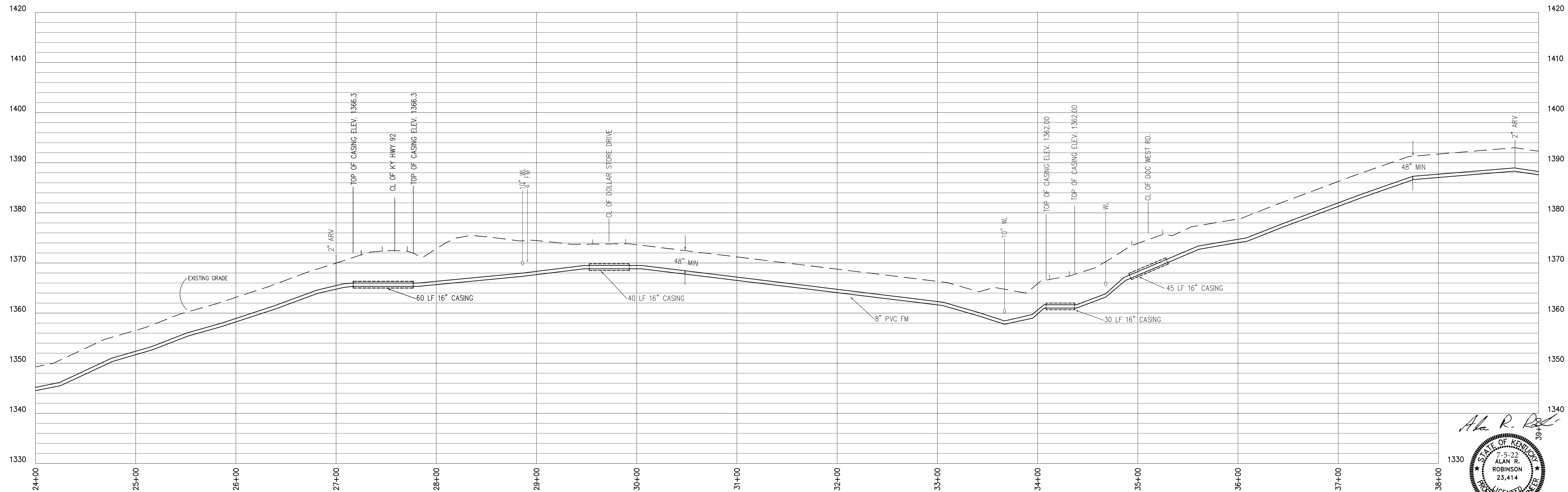
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SANITARY SEWER PROFILE - LINE A FORCE MAIN

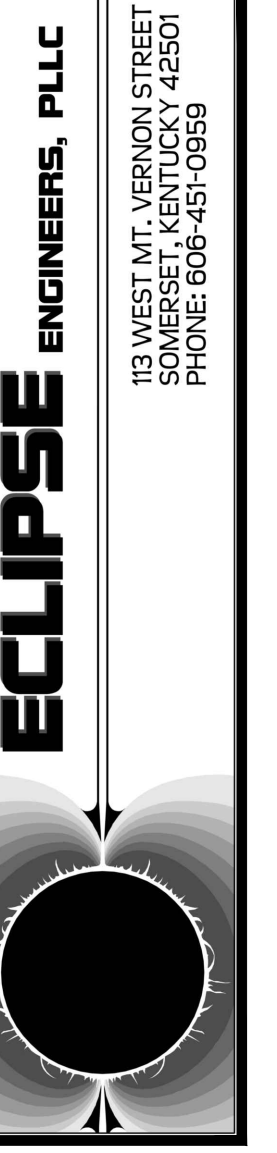


PROFILE SCALE
 VERTICAL: 1" = 10'
 HORIZONTAL: 1" = 50'

SANITARY SEWER PROFILE - LINE A FORCE MAIN



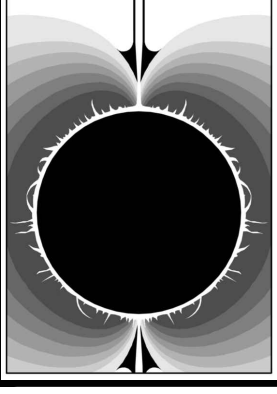
Alan R. Robinson
 STATE OF KENTUCKY
 7-5-22
 ALAN R. ROBINSON
 23,414
 PROFESSIONAL ENGINEER



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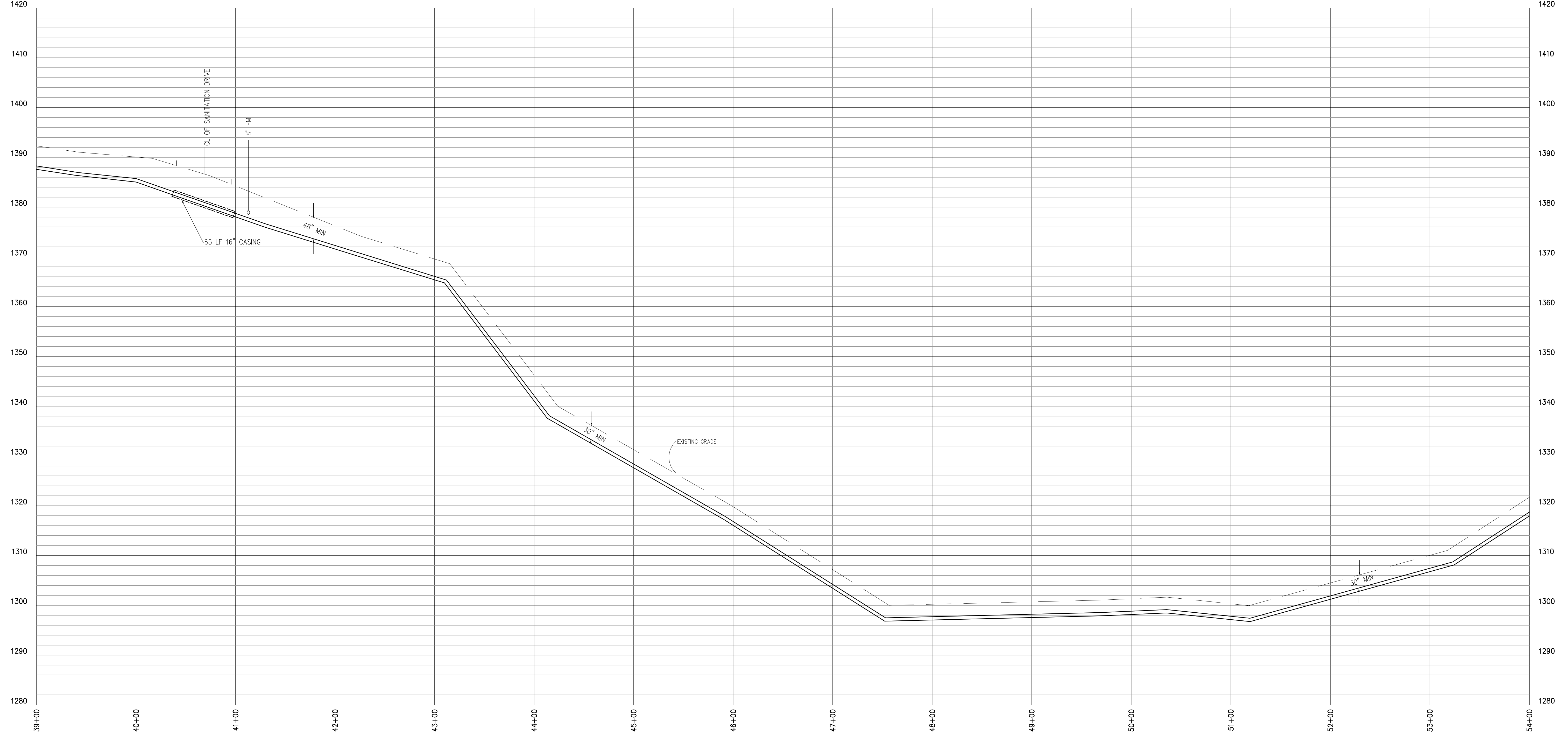
MCCREARY COUNTY
 WATER DISTRICT
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SANITARY SEWER PROFILE - LINE A
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN



PROFILE SCALE
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

SANITARY SEWER PROFILE - LINE A FORCE MAIN



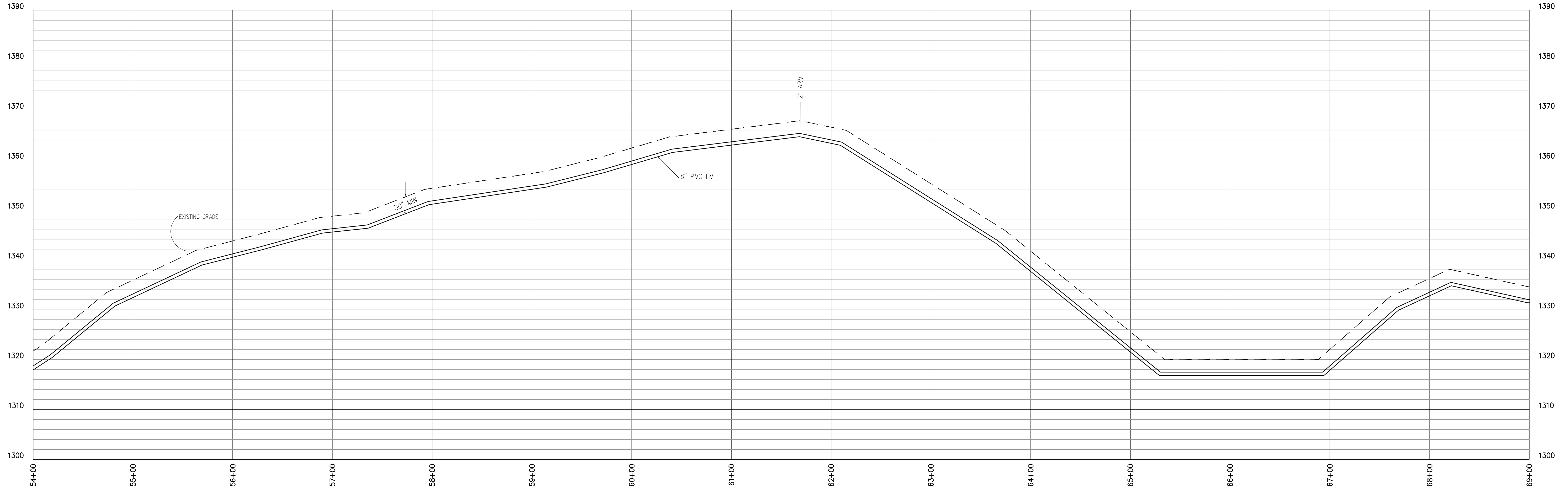
Alan R. Robison

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	19014	19014			
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	CAD DWG ID: JOB 19014 FIBROTEX FM & WWP MAP				

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SANITARY SEWER PROFILE - LINE A
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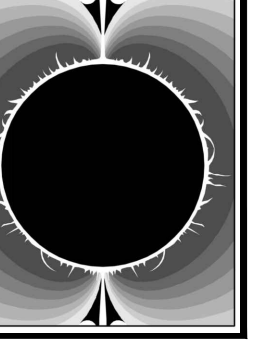


SANITARY SEWER PROFILE - LINE A FORCE MAIN



PROFILE SCALE
 VERTICAL: 1"=10'
 HORIZONTAL: 1"= 50'

Alan R. Robinson
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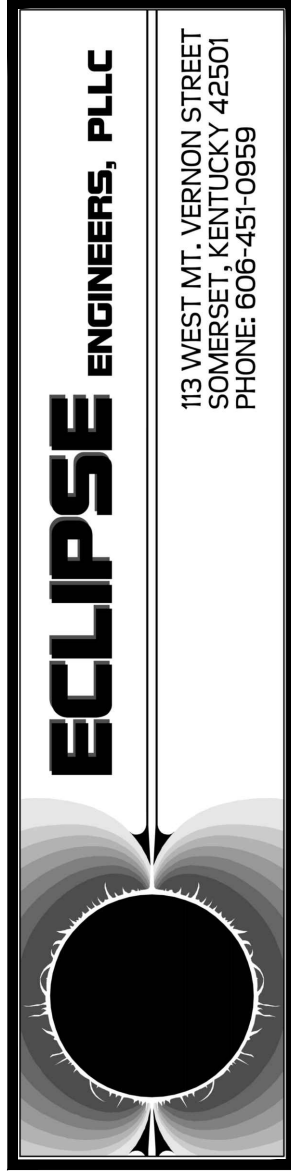
SANITARY SEWER PROFILE - LINE A
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 PUMP STATION AND FORCE MAIN

SANITARY SEWER PROFILE - LINE G



PROFILE SCALE
 VERTICAL: 1"=10'
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Alan R. Robison
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 7-5-22
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER



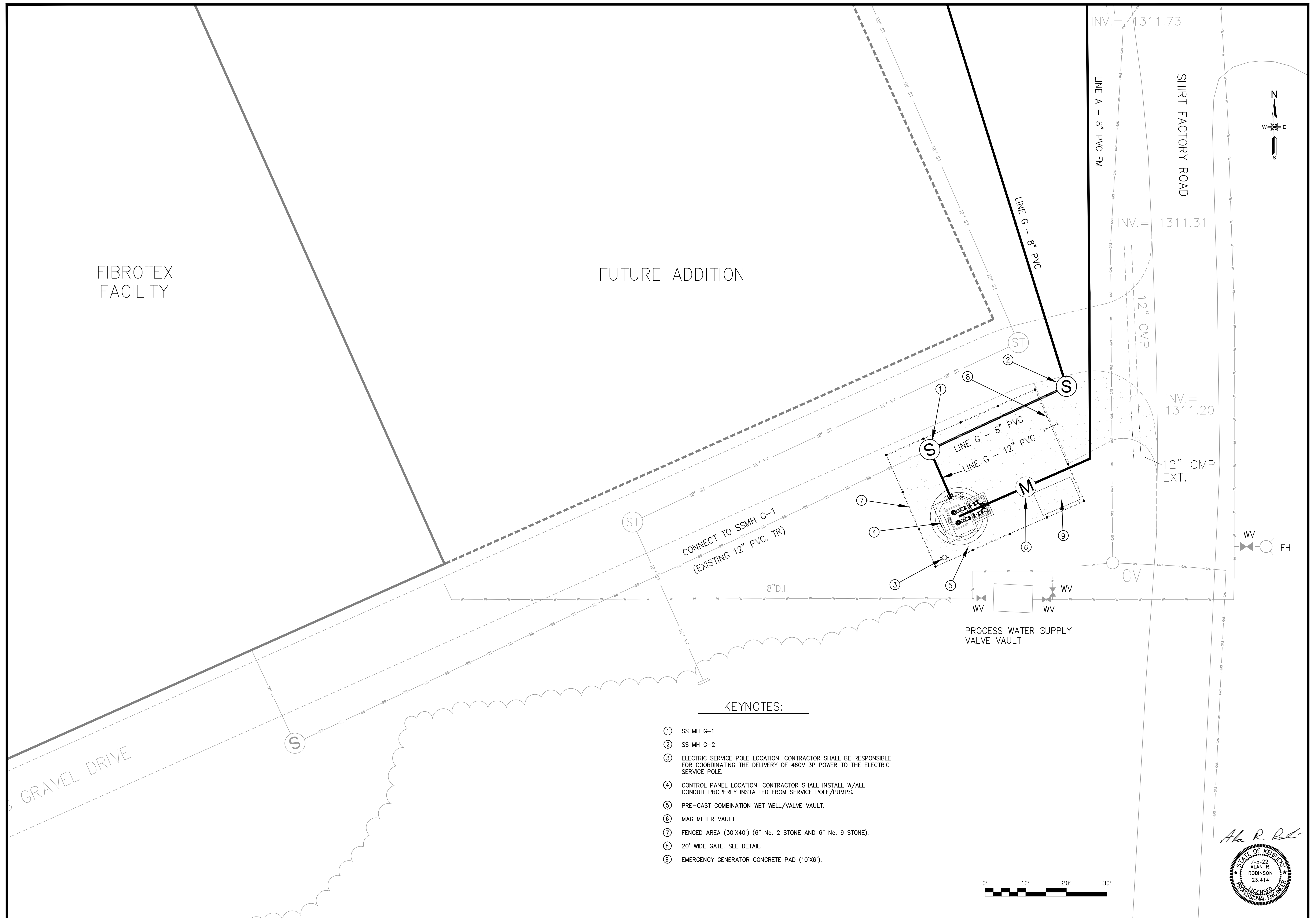
ECLIPSE ENGINEERS, PLLC
 113 WEST MT. VERNON STREET
 SOMERSET, KENTUCKY 40501
 PHONE: 606-481-1989

SCALE:	DESIGNED BY:	AS SHOWN	REVISION:	BY:	DATE:
DRAWN BY:	ARR	ARR			
CHECKED BY:	WBD	WBD			
PROJECT NO:	ARR	ARR			
DATE:	19014	19014			
CAD DWG ID:	JUNE 2021	JUNE 2021			

McCREARY COUNTY
 WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

SANITARY SEWER PROFILE - LINE G
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN

SHEET NUMBER:
 12



GRAVEL DRIVE

FIBROTEX FACILITY

FUTURE ADDITION

SHIRT FACTORY ROAD

CONNECT TO SSMH G-1
(EXISTING 12" PVC. TR)

PROCESS WATER SUPPLY VALVE VAULT

KEYNOTES:

- ① SS MH G-1
- ② SS MH G-2
- ③ ELECTRIC SERVICE POLE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DELIVERY OF 460V 3P POWER TO THE ELECTRIC SERVICE POLE.
- ④ CONTROL PANEL LOCATION. CONTRACTOR SHALL INSTALL W/ALL CONDUIT PROPERLY INSTALLED FROM SERVICE POLE/PUMPS.
- ⑤ PRE-CAST COMBINATION WET WELL/VALVE VAULT.
- ⑥ MAG METER VAULT
- ⑦ FENCED AREA (30'X40') (6" No. 2 STONE AND 6" No. 9 STONE).
- ⑧ 20' WIDE GATE. SEE DETAIL.
- ⑨ EMERGENCY GENERATOR CONCRETE PAD (10'X6').



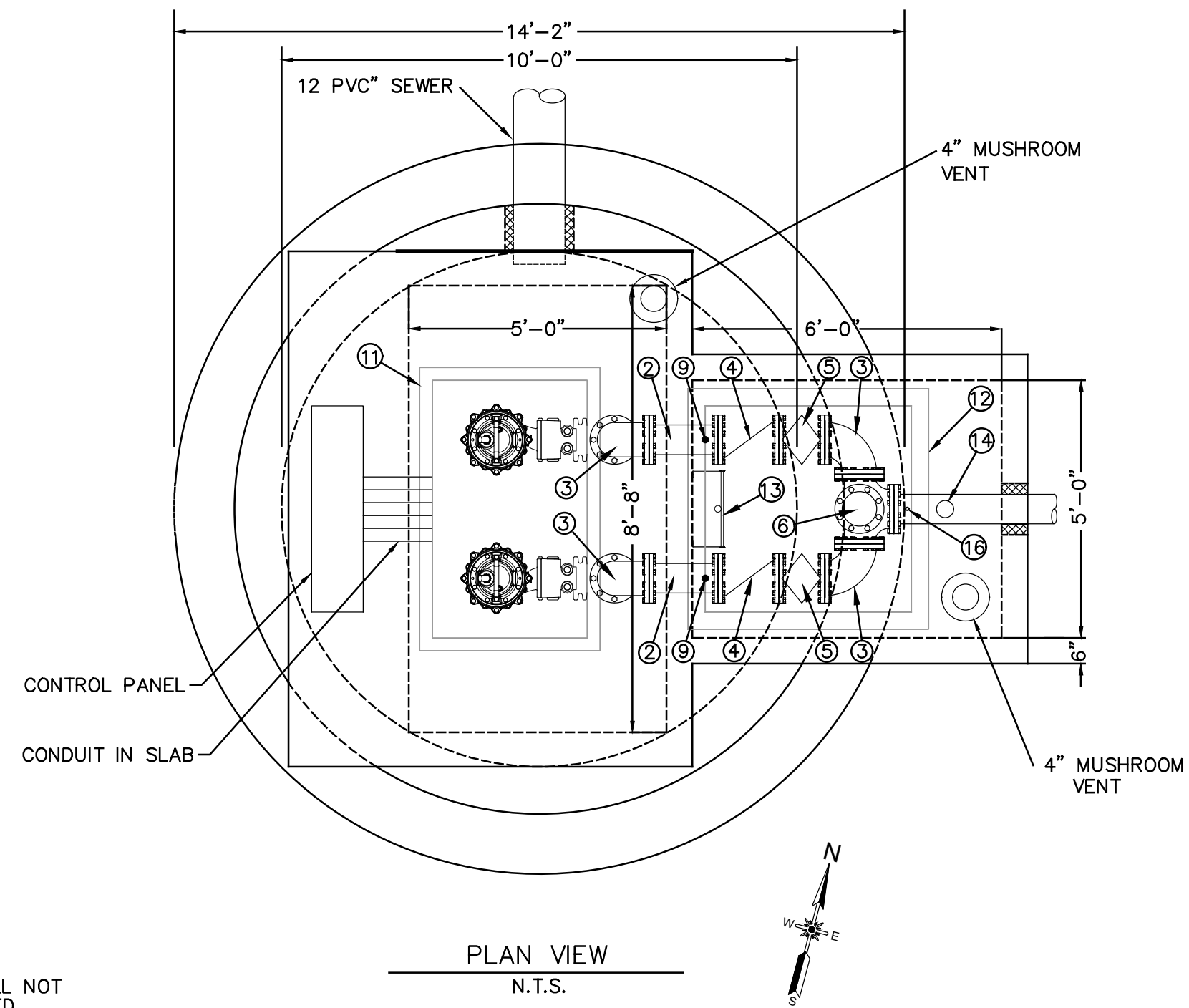
Alan R. Robinson
 STATE OF KENTUCKY
 7-5-22
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER

ECLIPSE ENGINEERS, PLLC
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 PHONE: 606-481-9888

SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DATE:
1" = 10'	ARR	WBD	ARR	19014	JUNE 2021
REVISION:	BY:	DATE:			
CAD DWG ID: JOB 18014 FIBROTEX PA & WWP MAP					

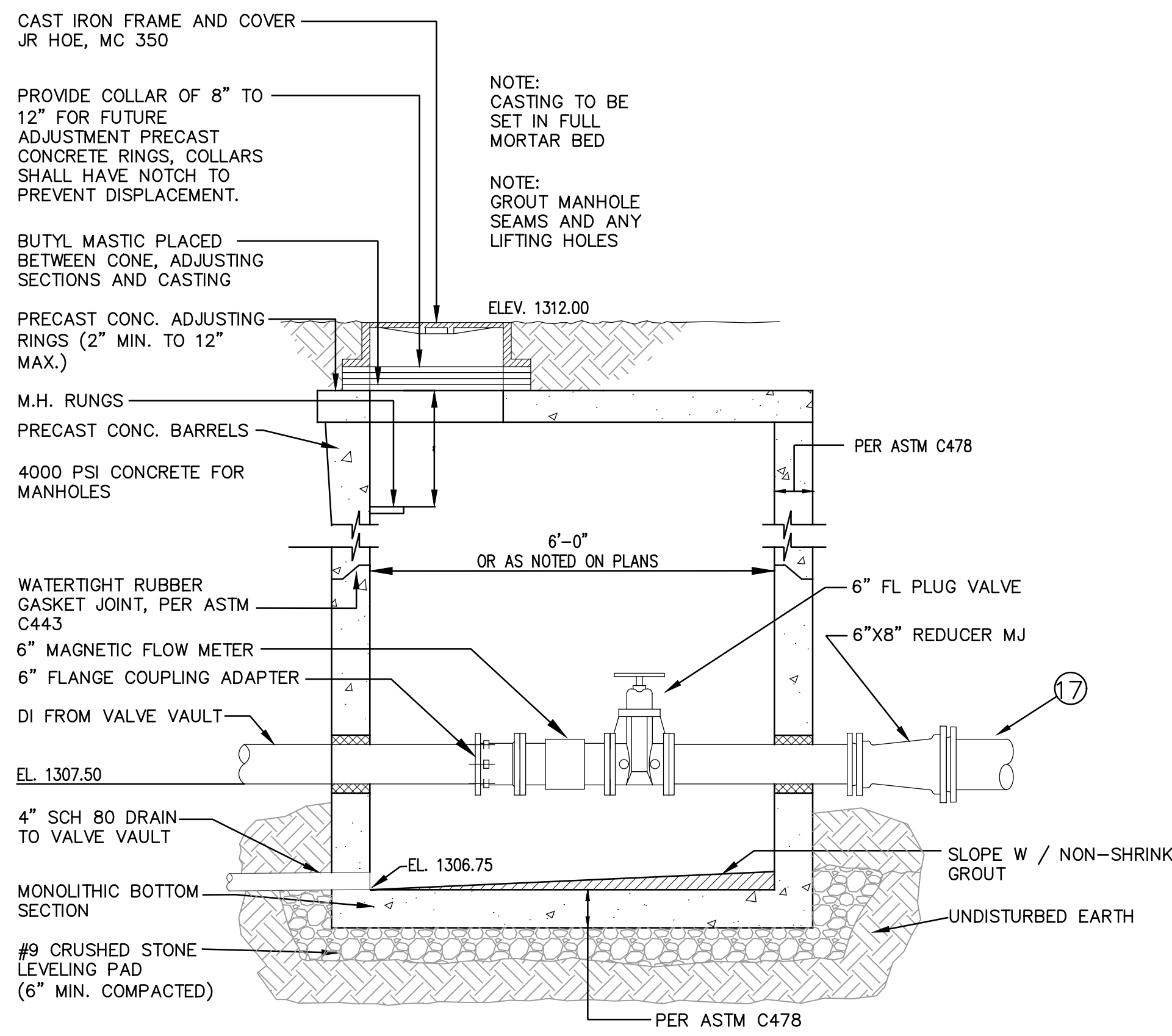
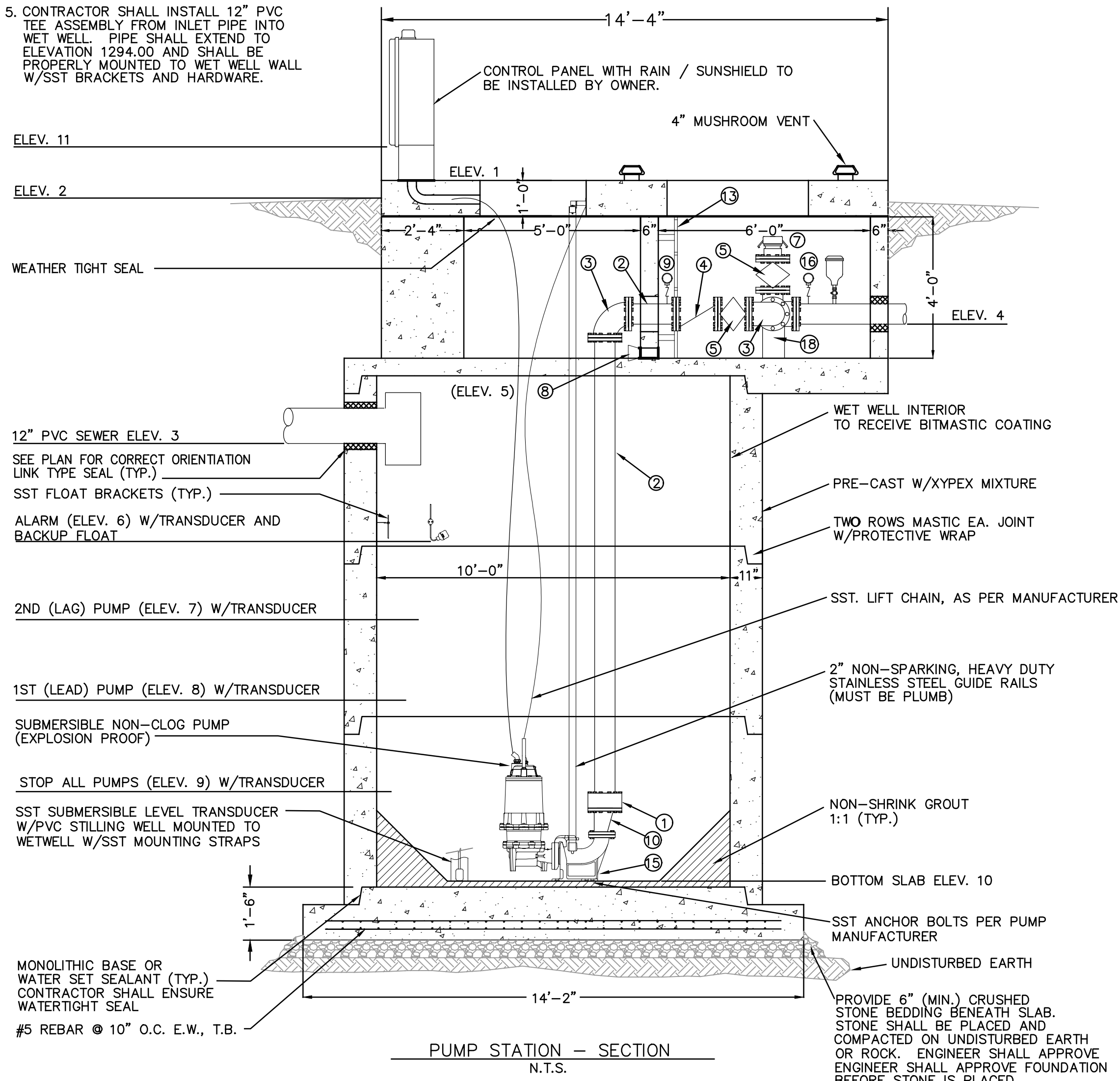
McCREARY COUNTY
 WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PUMP STATION SITE PLAN
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN

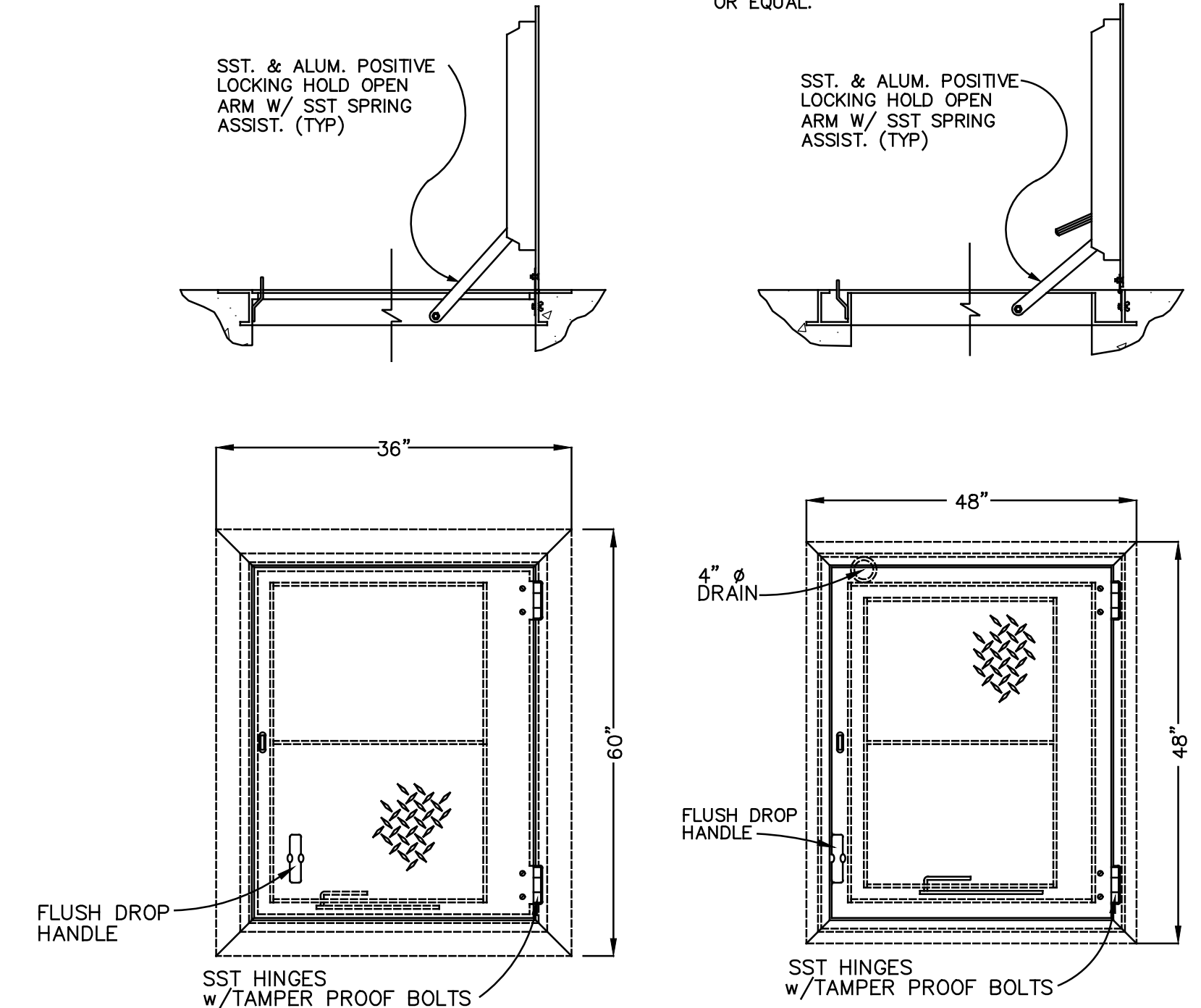


NOTES:

- MERCURY FLOATS SHALL NOT BE FIXED-PIPE MOUNTED.
- POWER CABLE CONT. TO CONTROL PANEL. 2 REQ'D PER PUMP WITH STAINLESS STEEL RELIEFS SECURED TO HATCH.
- BOTTOM OF BASIN MUST HAVE SMOOTH TROWELED SURFACE FOR MTG. SUPPORT CASTING IN ACCORDANCE WITH MFR. RECOMMENDATIONS.
- WETWELL IS A CLASS 1, DIVISION 1, GROUP D ATMOSPHERE.
- CONTRACTOR SHALL INSTALL 12" PVC TEE ASSEMBLY FROM INLET PIPE INTO WET WELL. PIPE SHALL EXTEND TO ELEVATION 1294.00 AND SHALL BE PROPERLY MOUNTED TO WET WELL WALL W/SST BRACKETS AND HARDWARE.

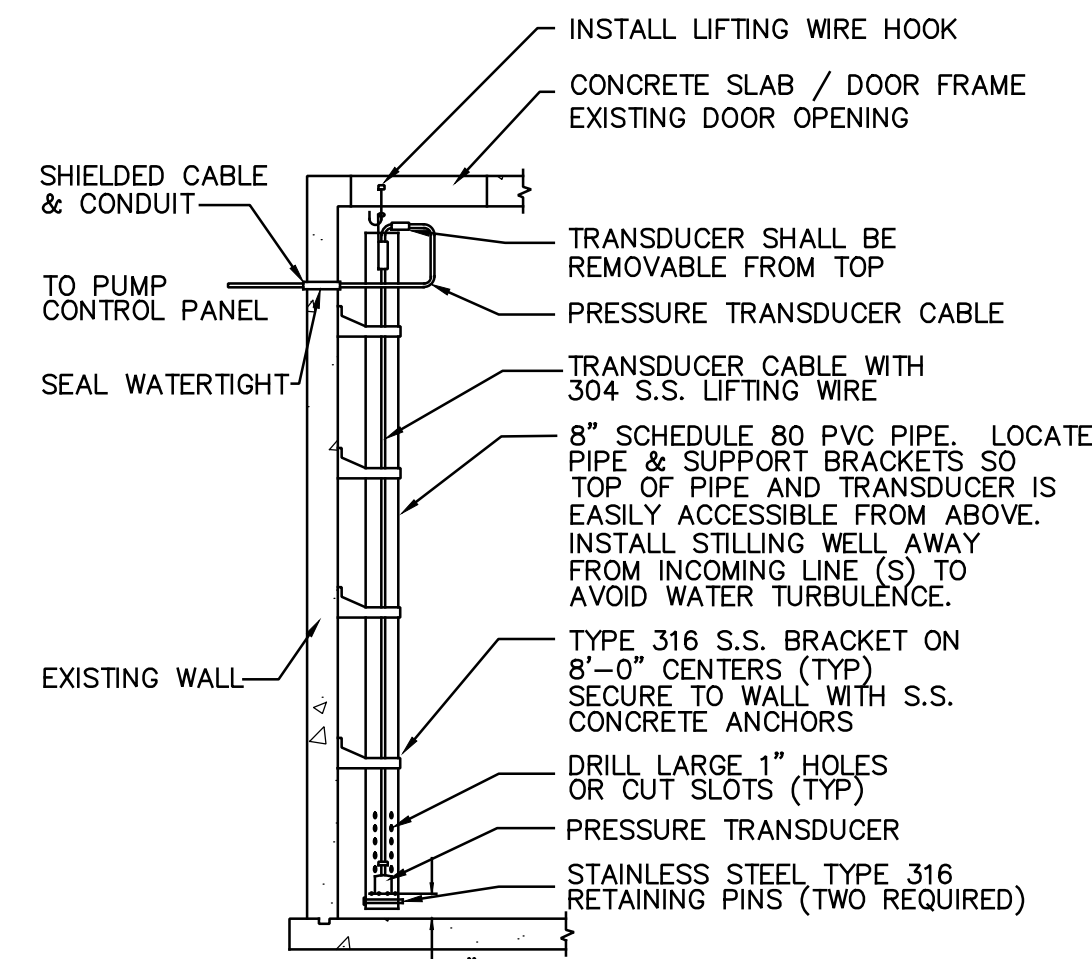


MAG METER VAULT
N.T.S.



PUMP STATION DOOR
N.T.S.

VALVE VAULT DOOR
N.T.S.

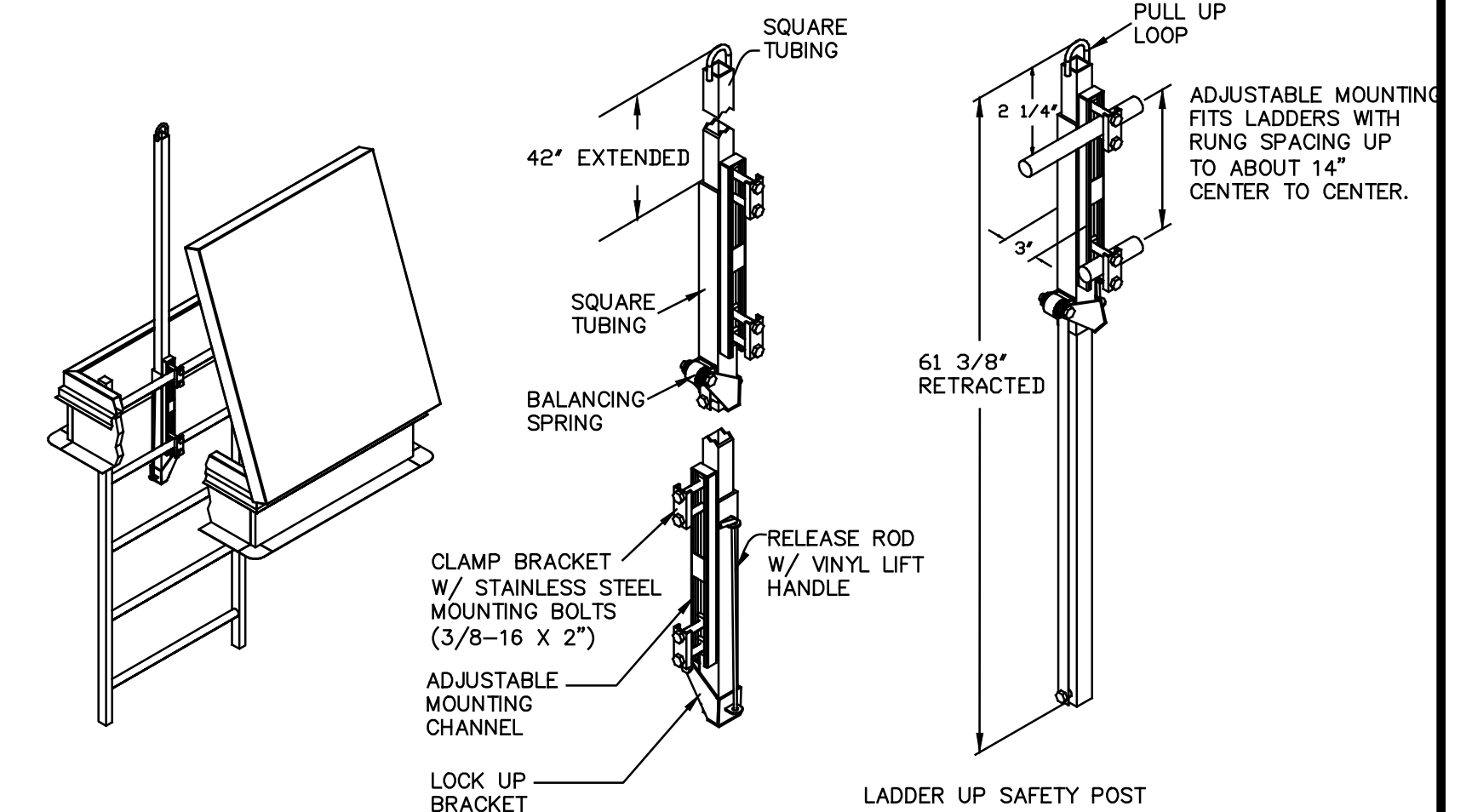


PRESSURE TRANSDUCER STILLING WELL
N.T.S.

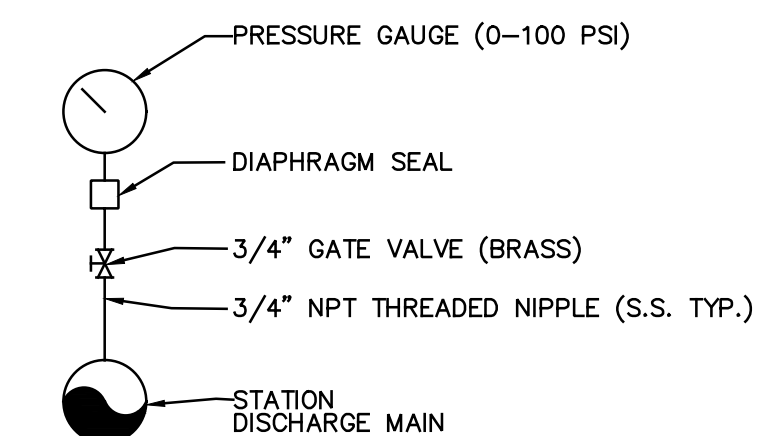
KEYNOTES

- (2) 6" RFCA
- (2) 6" DI PIPE SPOOLS W/ TNEMEC PERMA-SHIELD (INT.) AND BITMASTIC COATING (EXT.)
- (4) 6" 90 FLG ELBOW
- (2) 6" CHECK VALVE OL&W
- (5) 6" PLUG VALVE
- (1) 6" SIDE OUTLET TEE
- (1) 4" QUICK CONNECT
- (1) 4" TIDEFLEX RUBBER CHECK VALVE
- (3) PRESSURE GAUGE
- (2) 6"x4" ECC. REDUCER
- (1) 36"x60" WET WELL HATCH
- (1) 48"x48" VALVE VAULT HATCH
- (1) LADDER W/ SAFETY POST
- (1) 1" AIR RELEASE VALVE (ARI) W/ 1" BRASS ISOLATION VALVE
- (2) LIFT OUT ASSEMBLY
- PRESSURE TRANSDUCER (DIGITAL DISPLAY TO BE READABLE IN CONTROL PANEL)
- TRANSITION TO SDR 17 PVC
- CONNECT SUPPORT PIER UNDERNEATH DI TEE

ELEVATION KEY		
NO.	POSITION	ELEV.
1	PUMP STATION TOP SLAB/HATCH	1311.50
2	GROUND/REGRADE LINE	1310.50
3	INFLUENT INVERT	1304.00
4	EFFLUENT INVERT	1307.50
5	4" DRAIN EFFLUENT INVERT	1306.50
6	ALARM	1302.00
7	2ND (LAG) PUMP	1301.00
8	1ST (LEAD) PUMP	1300.00
9	STOP ALL PUMPS	1295.00
10	PUMP STATION BOTTOM SLAB	1292.00
11	BOTTOM OF CONTROL PANEL	1312.50



LADDER DETAIL
N.T.S.



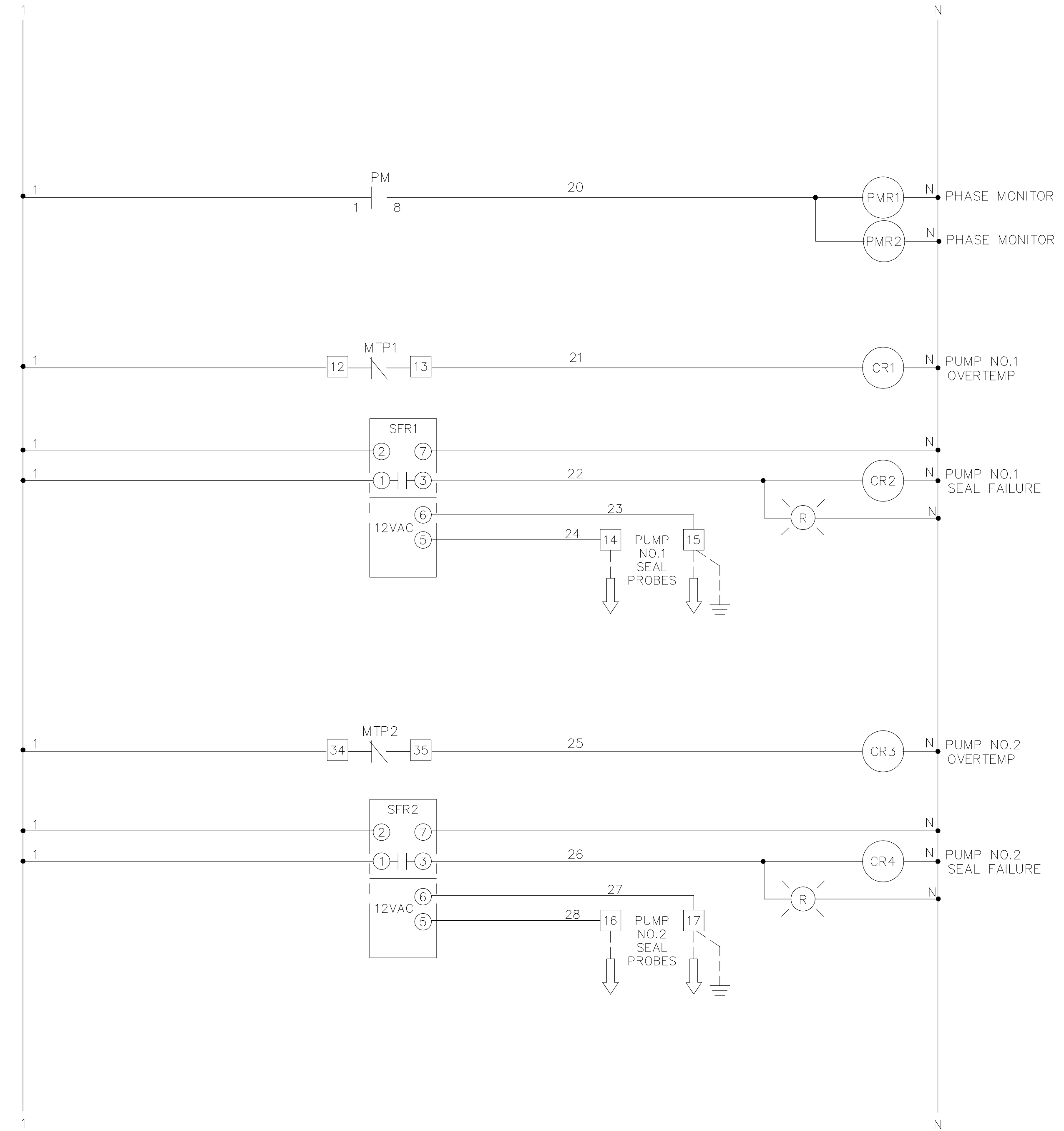
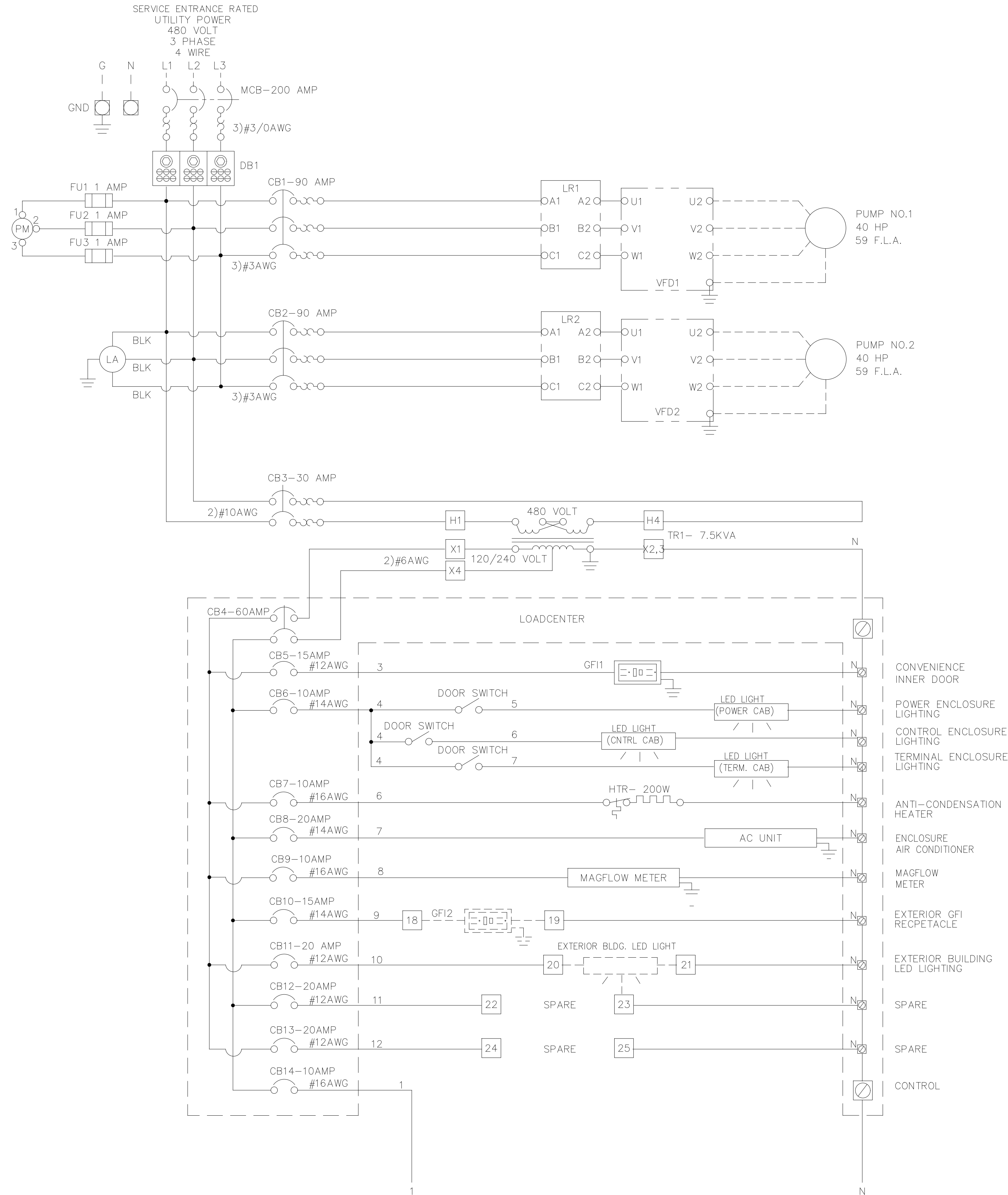
PRESSURE GAUGE
N.T.S.

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REGISTERED PROFESSIONAL ENGINEER

DATE:	
BY:	
REVISION:	
AS SHOWN	ARR
	WBD
	ARR
	19014
	JUNE 2021
	DATE:
	JOB 19014 PLUMBING
	CAD DWG ID:

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WATER DISTRICT
19 ORIT KING ROAD
WHITLEY CITY, KENTUCKY 42653

PUMP STATION DETAILS
CONTRACT 37 - FIBROTEX SANITARY SEWER
PUMP STATION AND FORCE MAIN



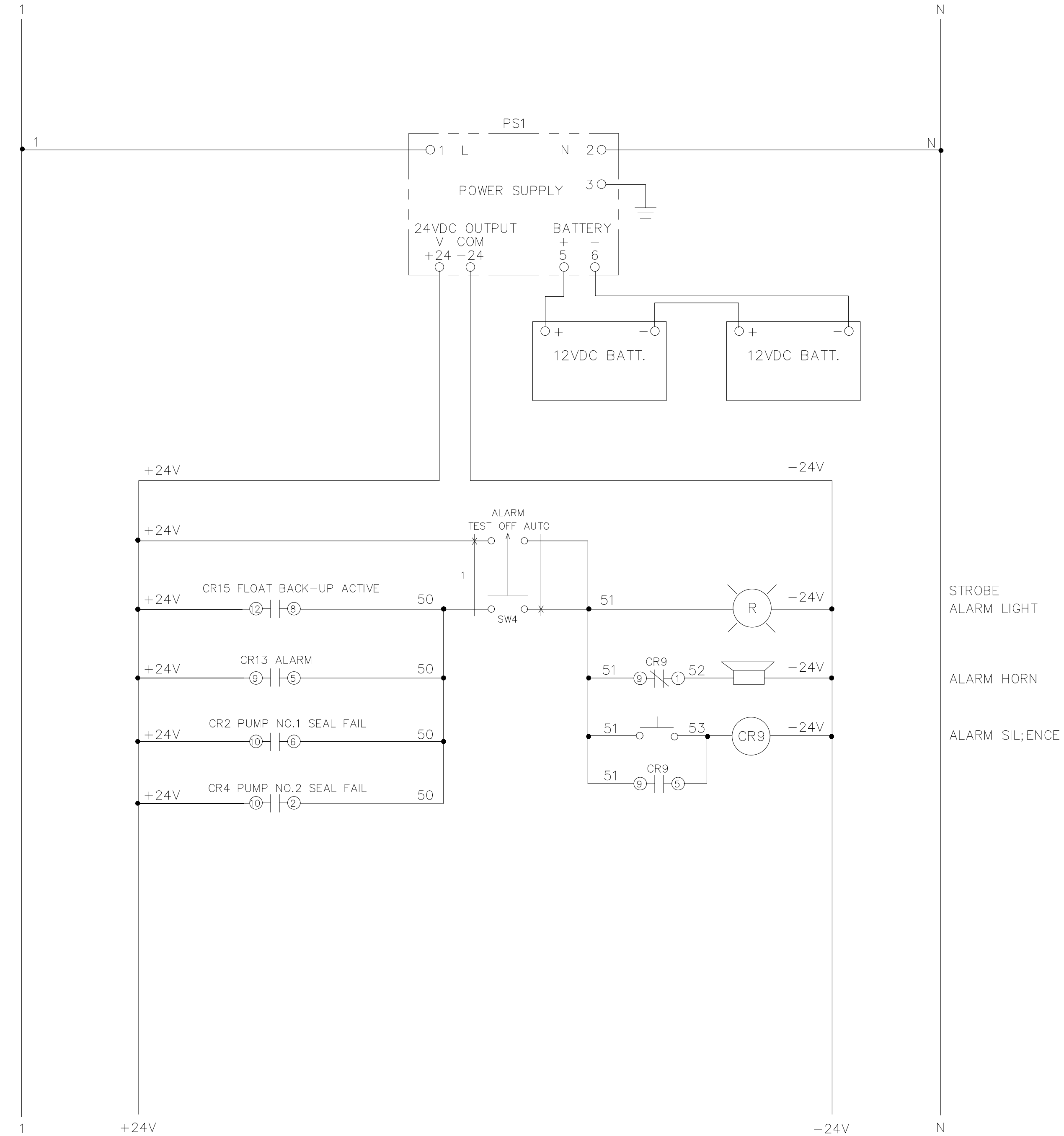
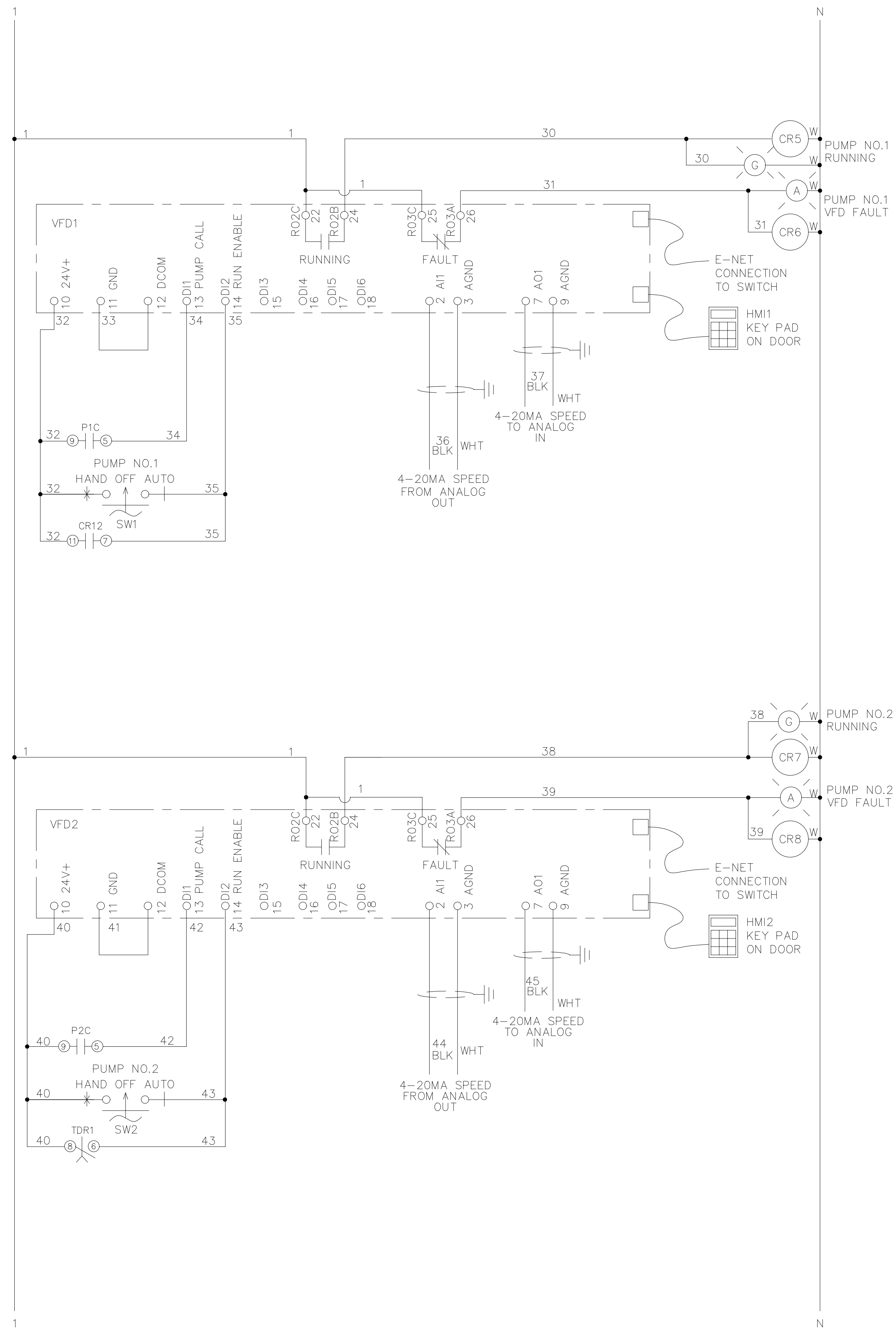
UL 698A LISTED CONTROL PANEL

WIRING CODE	SIZE	COLOR
POWERPOWER	#	BLACK
120V NEUTRAL	#	WHITE
120V CONTROL	#	RED
GROUND	#	GREEN
DRY CONTACTS	#	YELLOW

HP: 40 FLA: 59 VOLT: 480 PHASE: 3 HERTZ: 60

Alan R. Robinson
Professional Engineer
STATE OF KENTUCKY
7-5-22
ALAN R. ROBINSON
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LICENSED PROFESSIONAL ENGINEER

SCALE:	DESIGNED BY:	DATE:
N.T.S.	ARR	
WBD		
REVISION:	BY:	DATE:



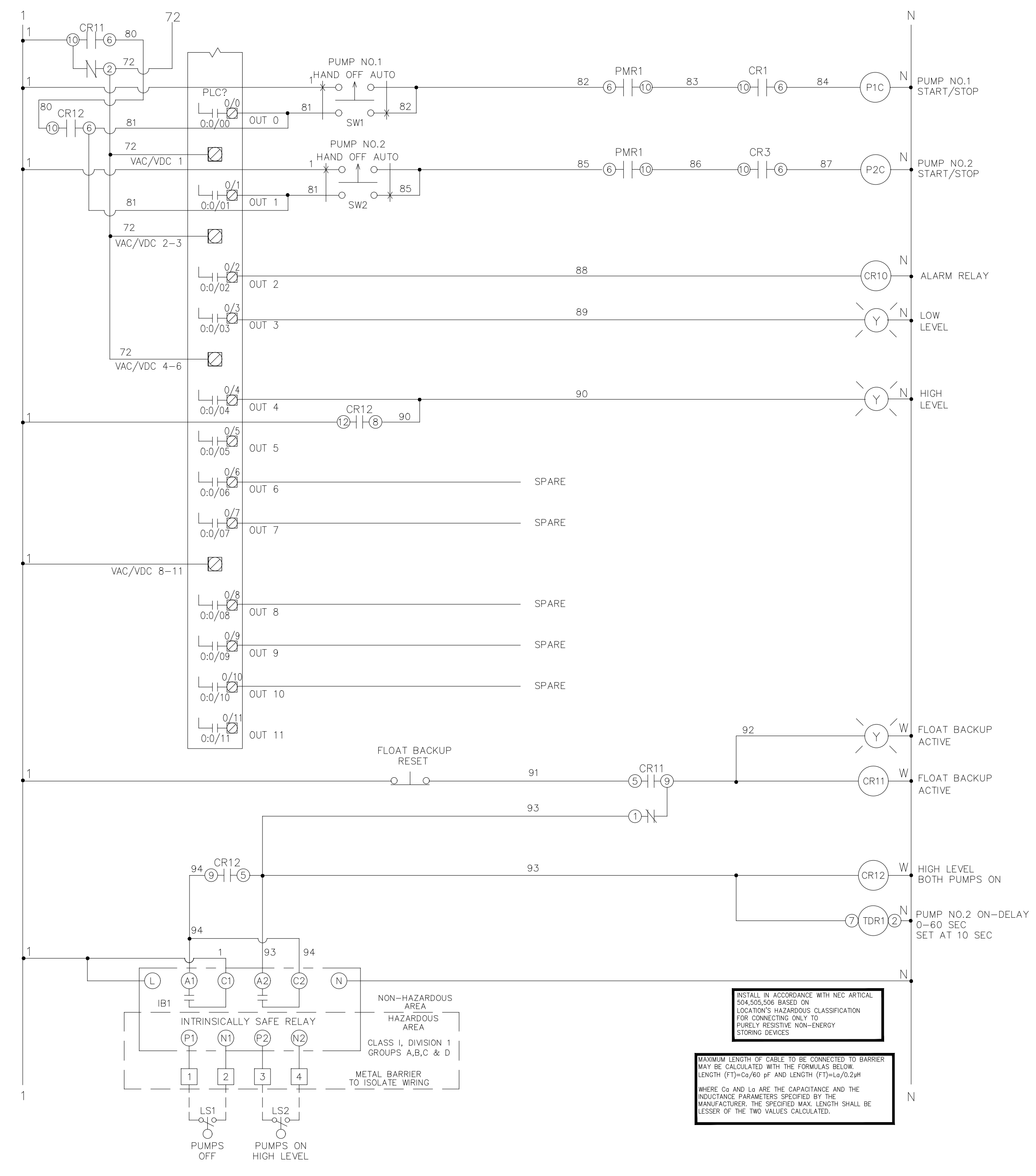
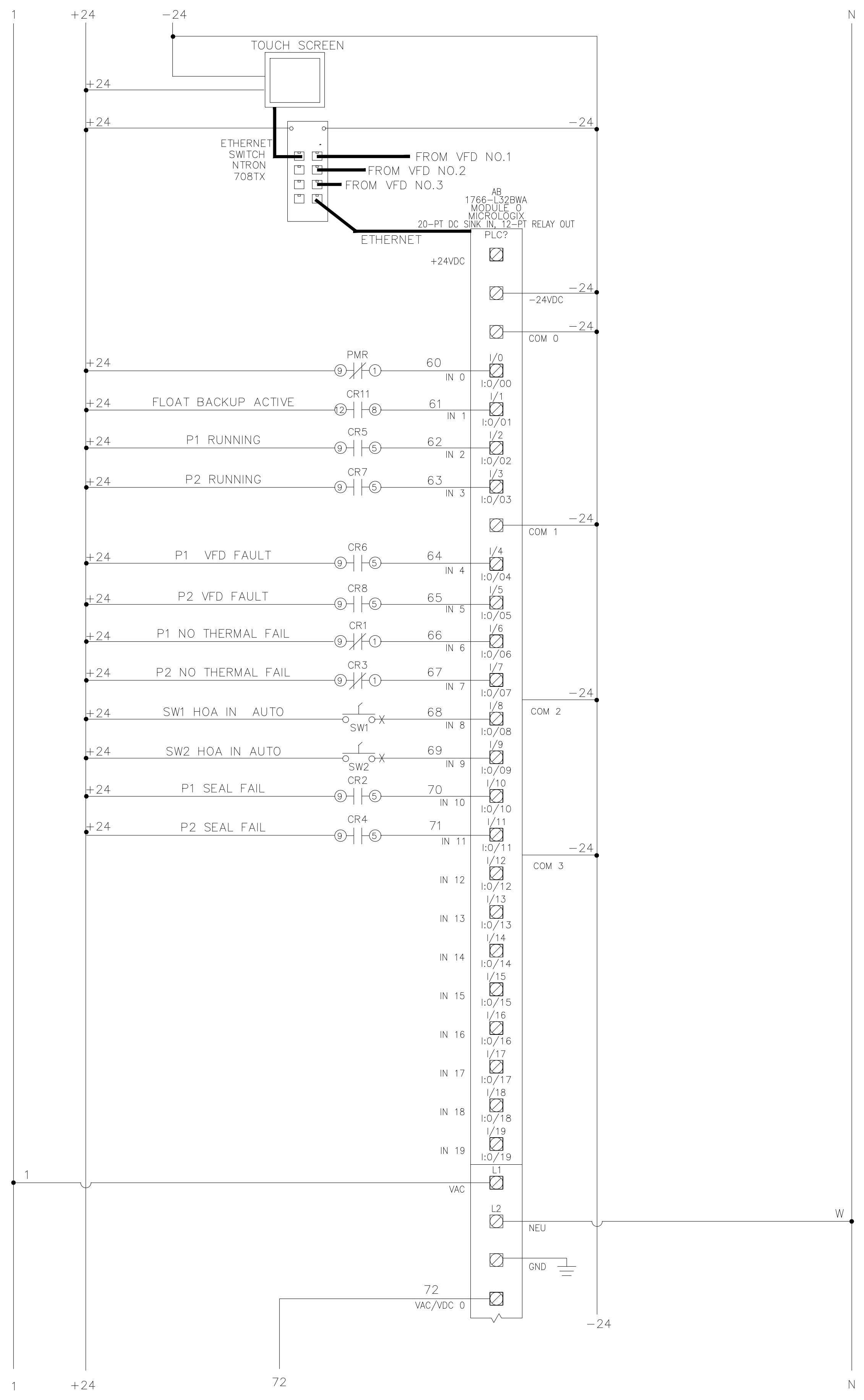
WIRING CODE	SIZE	COLOR
POWERPOWER	#	BLACK
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DRY CONTACTS	#	YELLOW

HP: 40 FLA: 59 VOLT: 480 PHASE: 3 HERTZ: 60

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N.T.S.	ARR	WBD	ARR	19014	JUNE 2021	
REVISION:	BY:	DATE:				
McCREARY COUNTY WATER DISTRICT 456 N. HWY 27 WHITLEY CITY, KENTUCKY 42653						
PUMP STATION ELECTRIC CONTRACT No. 37 - FIBROTEX SANITARY SEWER PUMP STATION AND FORCE MAIN						
SHEET NUMBER: 16						



UL 698A LISTED CONTROL PANEL

WIRING CODE	SIZE	COLOR
POWER	14	BLACK
120V NEUTRAL	14	WHITE
120V CONTROL	14	RED
GROUND	16	GREEN
DRY CONTACTS	14	YELLOW

HP: 40 FLA: 59 VOLT: 480 PHASE: 3 HERTZ: 60

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REVISION:	BY:	DATE:

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					19014	JUNE 2021

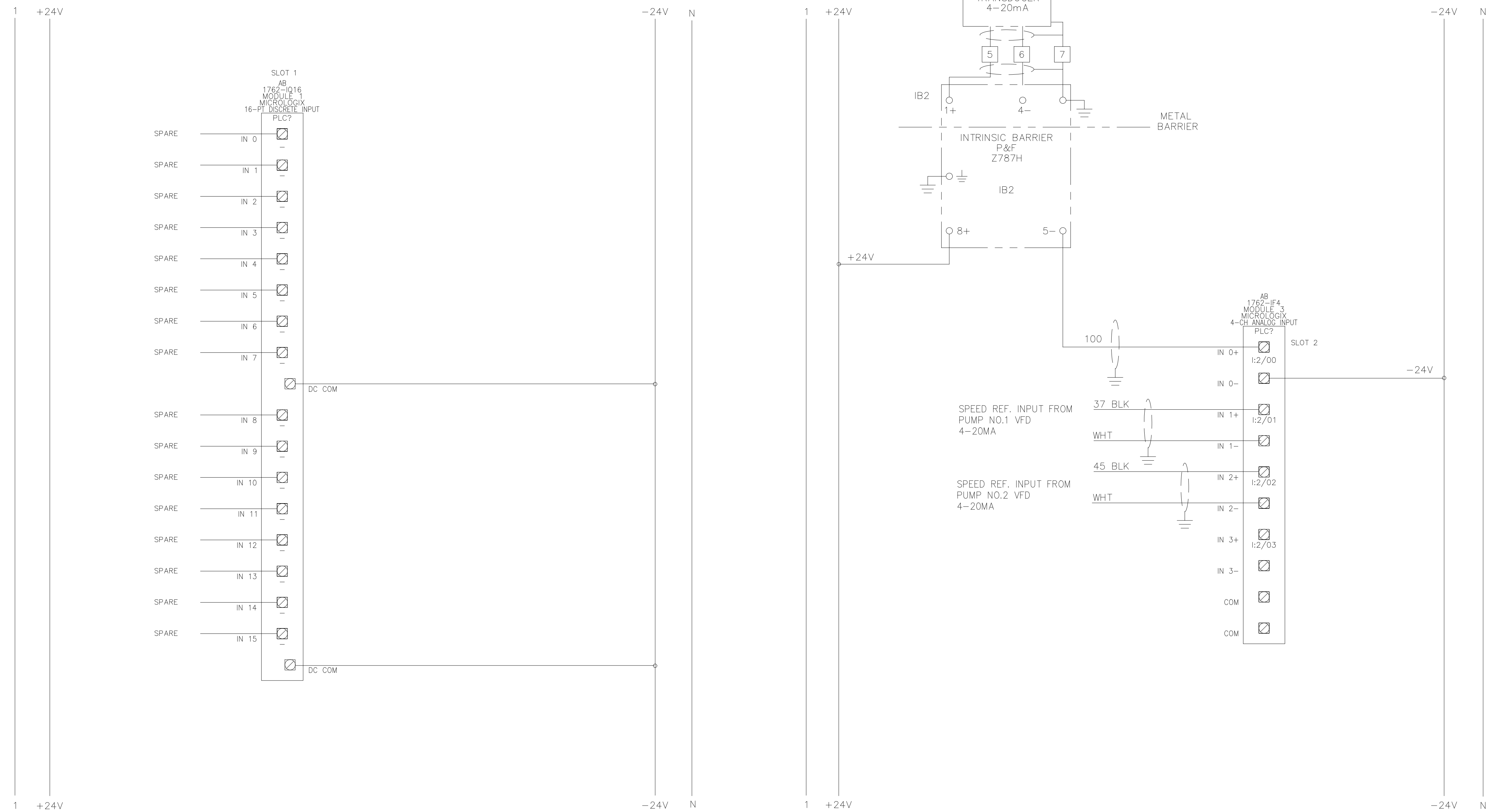
CAD DWG ID: JOB 19014 FIBROTEX PA & SWTP MAP

McCREARY COUNTY WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PUMP STATION ELECTRIC

CONTRACT No. 37 - FIBROTEX SANITARY SEWER PUMP STATION AND FORCE MAIN

SHEET NUMBER:
17



UL 698A LISTED CONTROL PANEL

WIRING CODE	SIZE	COLOR
POWER	14	BLACK
120V NEUTRAL	14	WHITE
120V CONTROL	14	RED
GROUND	16	GREEN
DRY CONTACTS	14	YELLOW

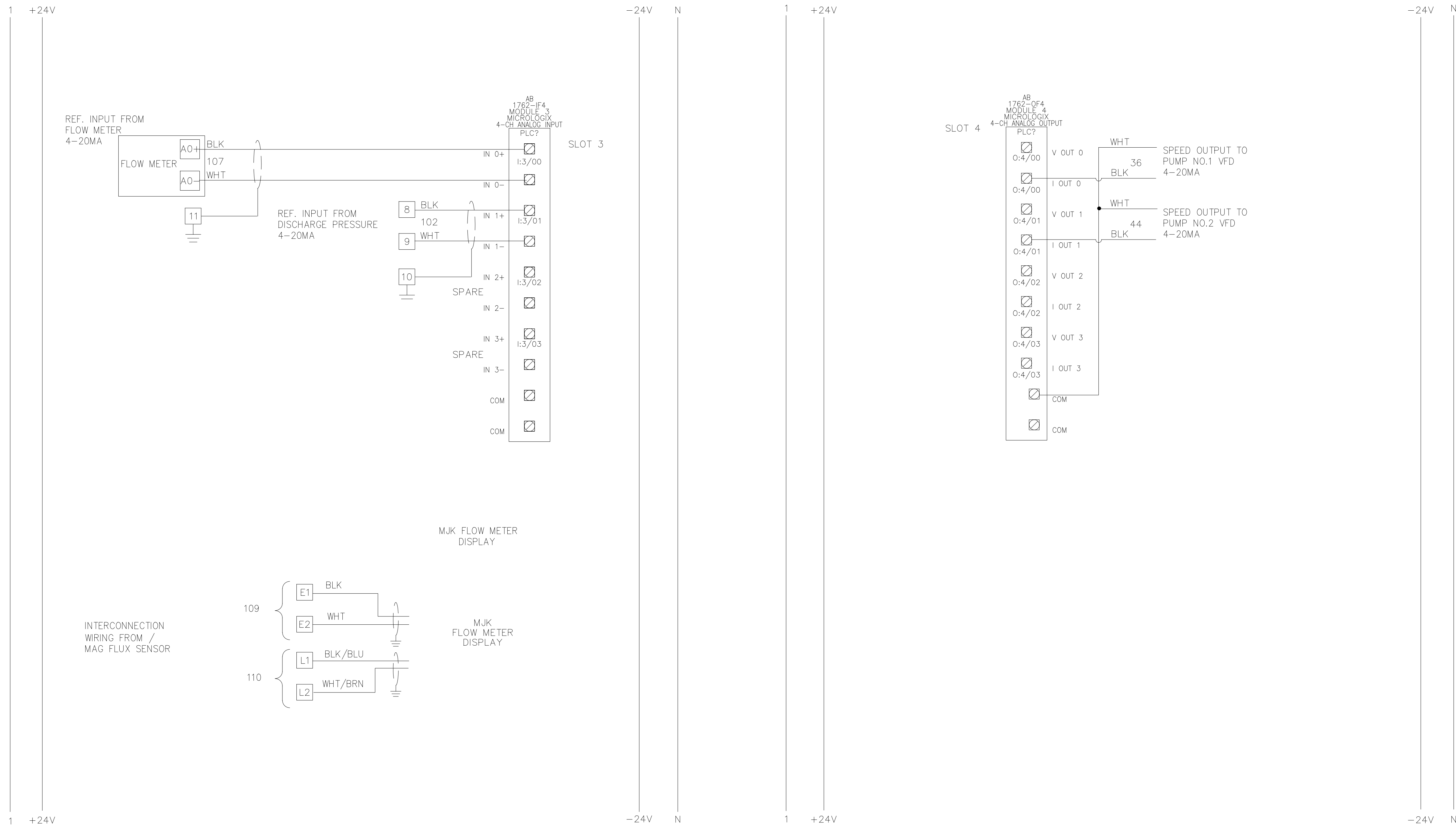
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REVISION:		BY:						
DATE:								

McCREARY COUNTY
 WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PUMP STATION ELECTRIC
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN



UL 698A LISTED CONTROL PANEL

WIRING CODE	SIZE	COLOR
POWER	14	BLACK
120V NEUTRAL	14	WHITE
120V CONTROL	14	RED
GROUND	16	GREEN
DRY CONTACTS	14	YELLOW

HP: 40 FLA: 59 VOLT: 480 PHASE: 3 HERTZ: 60

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 SUMMERSVILLE, KY 40389
 PHONE: 502-481-1989

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	ARR	WBD	ARR	19014	JUNE 2021

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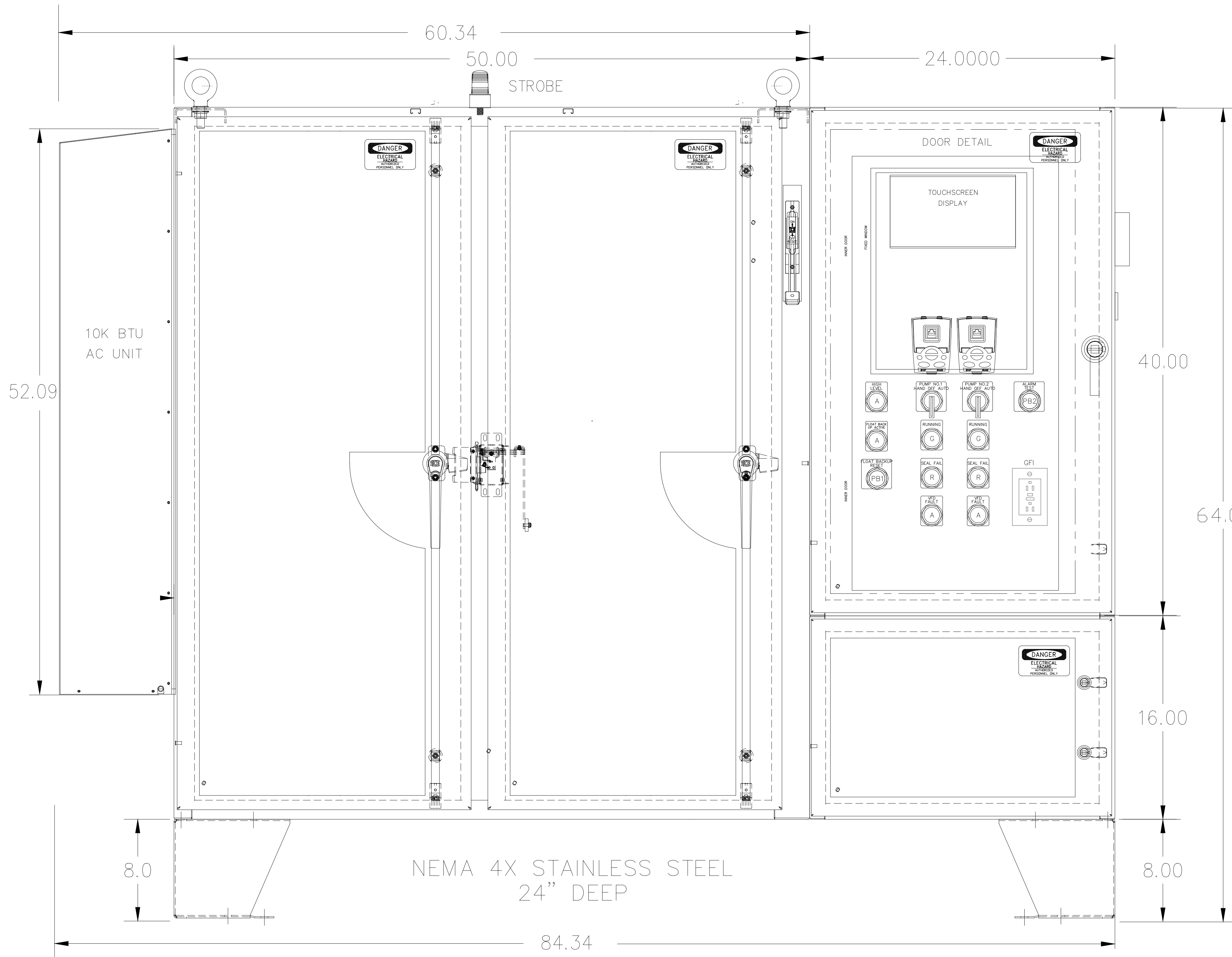
**McCREARY COUNTY
 WATER DISTRICT**
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PUMP STATION ELECTRIC

CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN

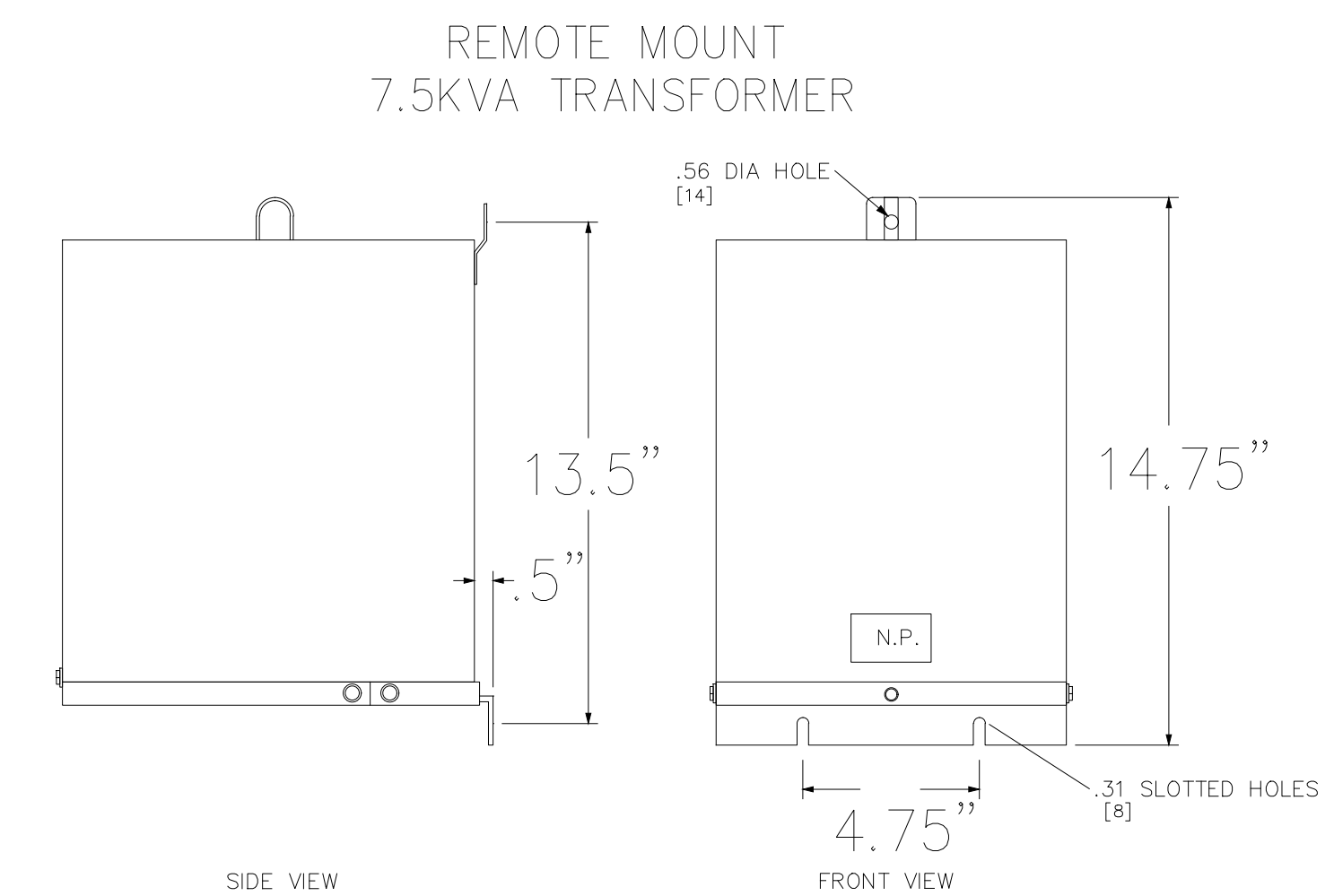
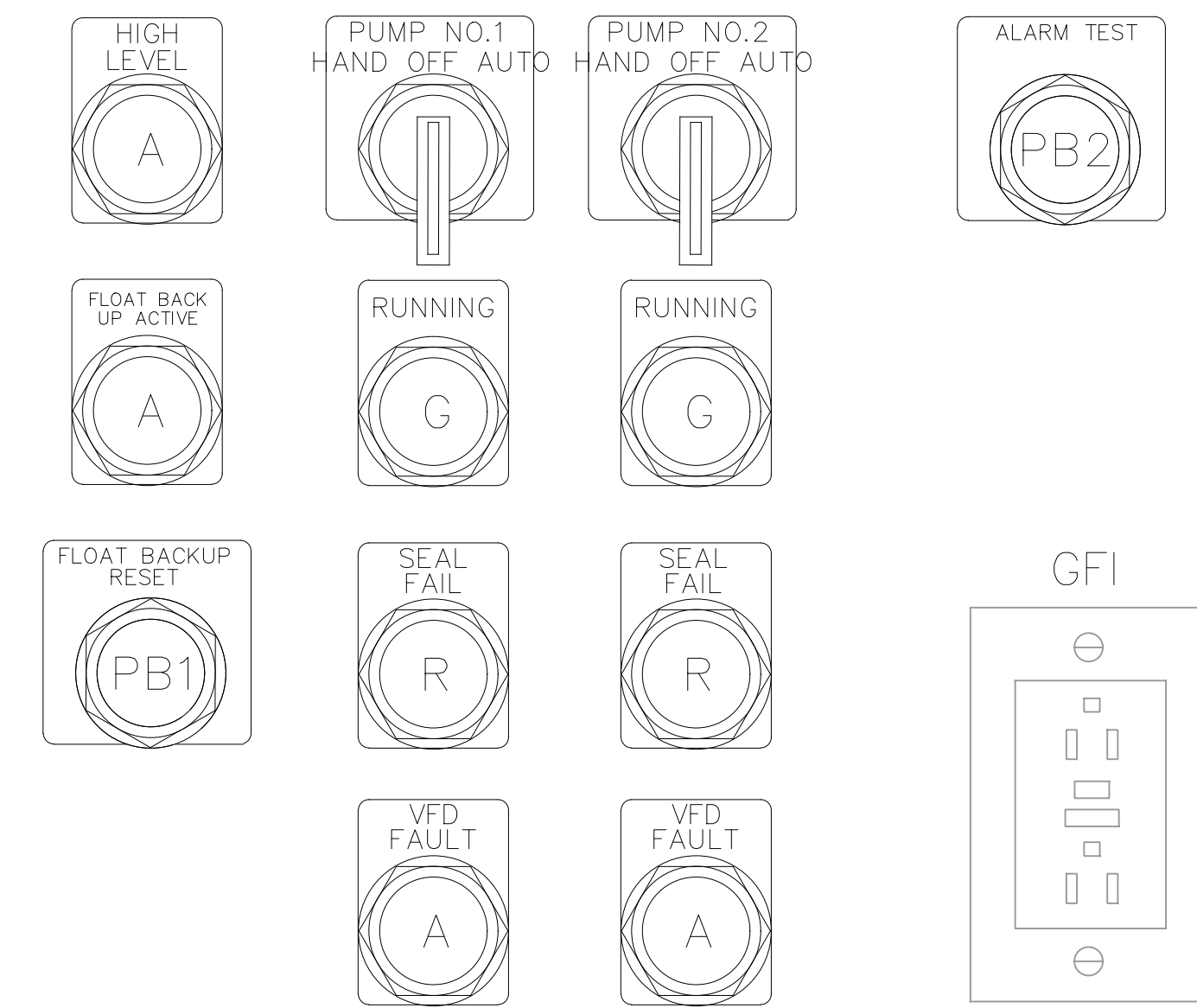
SHEET NUMBER:

19



UL 698A LISTED CONTROL PANEL

INNER DOOR DETAIL



WIRING CODE	SIZE	COLOR
POWER	14	BLACK
120V NEUTRAL	14	WHITE
120V CONTROL	14	RED
GROUND	16	GREEN
DRY CONTACTS	14	YELLOW

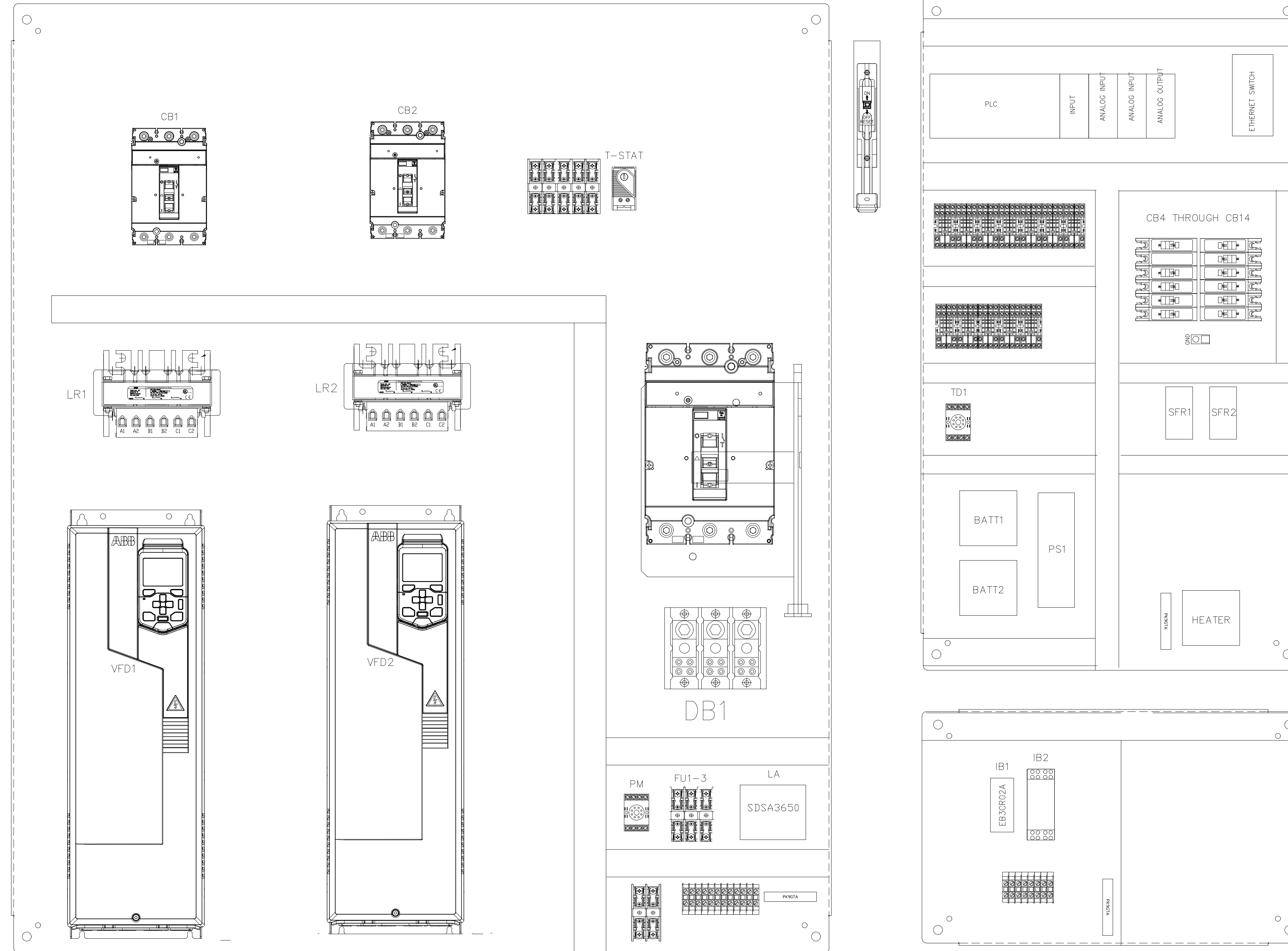
HP: 40 FLA: 59 VOLT: 480 PHASE: 3 HERTZ: 60

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N.T.S.	DATE:
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WBD	
ARR	
ARR	
19014	
JUNE 2021	
CAD DWG ID: JOB 19014 FIBROTEX PA & SWTP MAP	

McCREARY COUNTY
 WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PUMP STATION ELECTRIC
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN



UL 698A LISTED CONTROL PANEL

WIRING CODE	SIZE	COLOR
POWER	14	BLACK
120V NEUTRAL	14	WHITE
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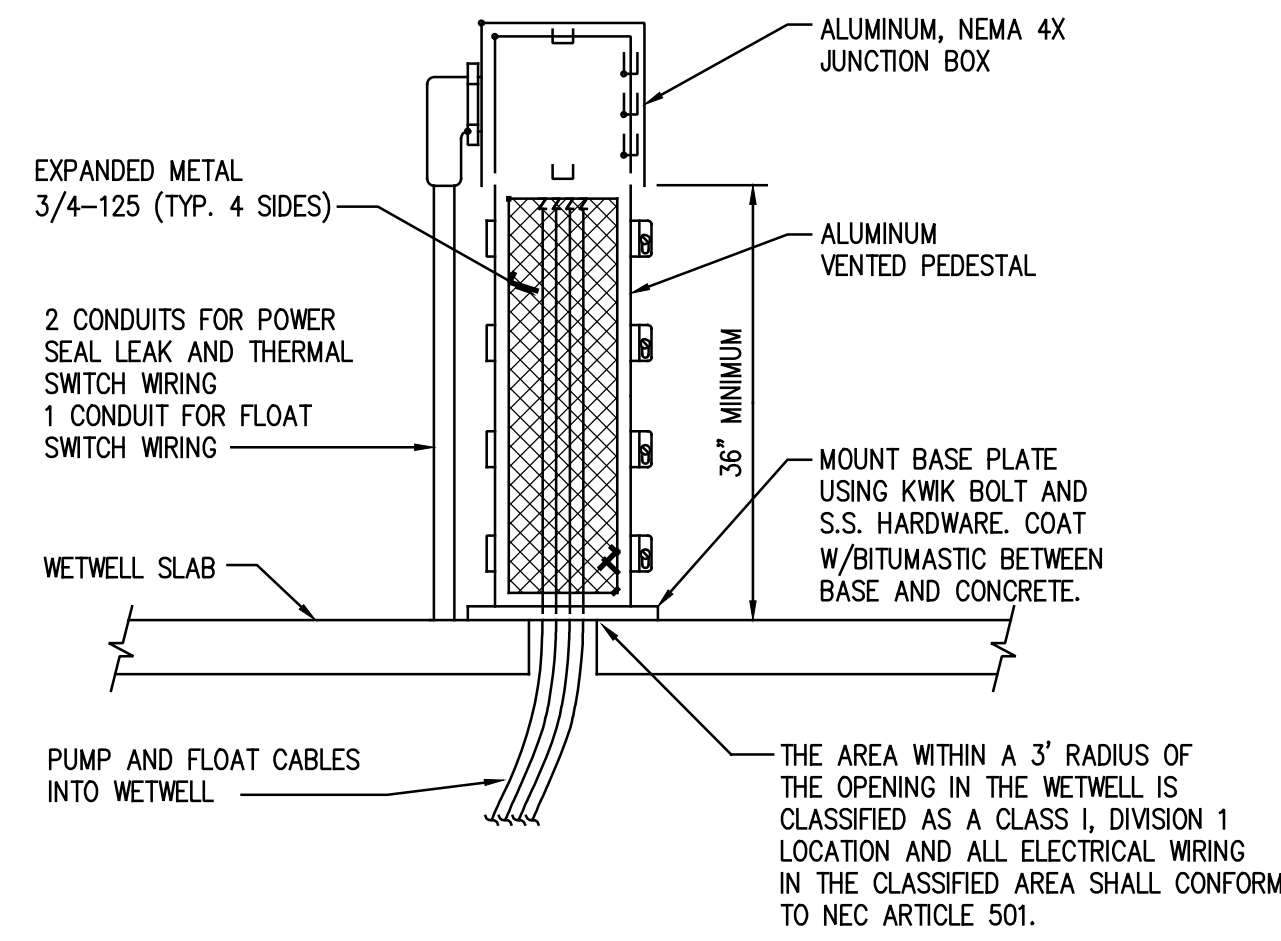
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		DRAWN BY:	WBD			
		CHECKED BY: <td>ARR</td> <td></td> <td></td> <td></td>	ARR			
		PROJECT NO.: <td>19014</td> <td></td> <td></td> <td></td>	19014			
		DATE: <td>JUNE 2021</td> <td></td> <td></td> <td></td>	JUNE 2021			
		CAD DWG ID.: <td>JOB 19014 FIBROTEX PA & WWP MAP</td> <td></td> <td></td> <td></td>	JOB 19014 FIBROTEX PA & WWP MAP			

McCreech County
 Water District
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PUMP STATION ELECTRIC
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN

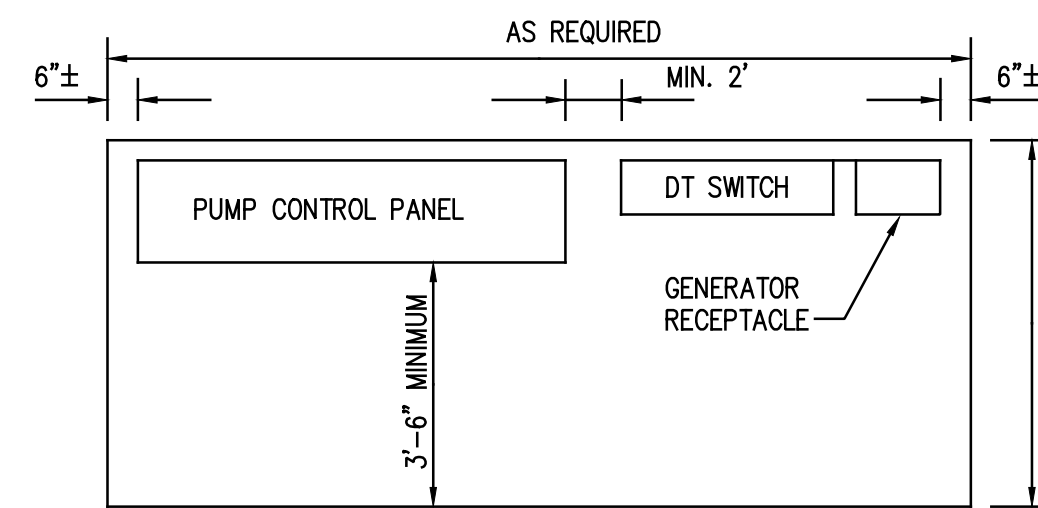


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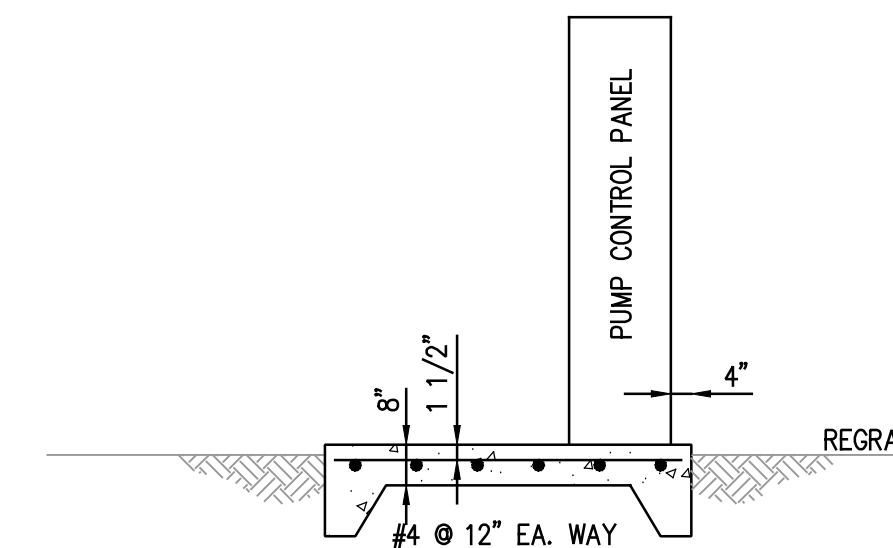
FLOAT AND PUMP CABLES FROM THE WETWELL SHALL BE RUN UP THROUGH THE PEDESTAL AND ATTACHED TO THE WETWELL JUNCTION BOX USING SEALING CONNECTORS HAVING A STEEL BODY AND NEOPRENE BUSHING. THE CONNECTOR SHALL BE RATED FOR USE IN CLASS I, DIVISION 1, GROUP D HAZARDOUS LOCATIONS. CONNECTORS SHALL BE CROUSE-HINDS CGBS OR EQUAL, AND SHALL BE SEALED PER MANUFACTURERS INSTRUCTIONS. THE SEALS CONNECTORS SHALL BE SCREWED INTO STEEL OR MALLEABLE IRON THREADED HUBS INSTALLED INSIDE THE PEDESTAL OR THE BOTTOM OF THE JUNCTION BOX. THE HUBS SHALL ALSO BE RATED FOR USE IN HAZARDOUS LOCATIONS AND SHALL BE APPLETON HUB OR EQUAL.

WETWELL JUNCTION BOX

NOT TO SCALE



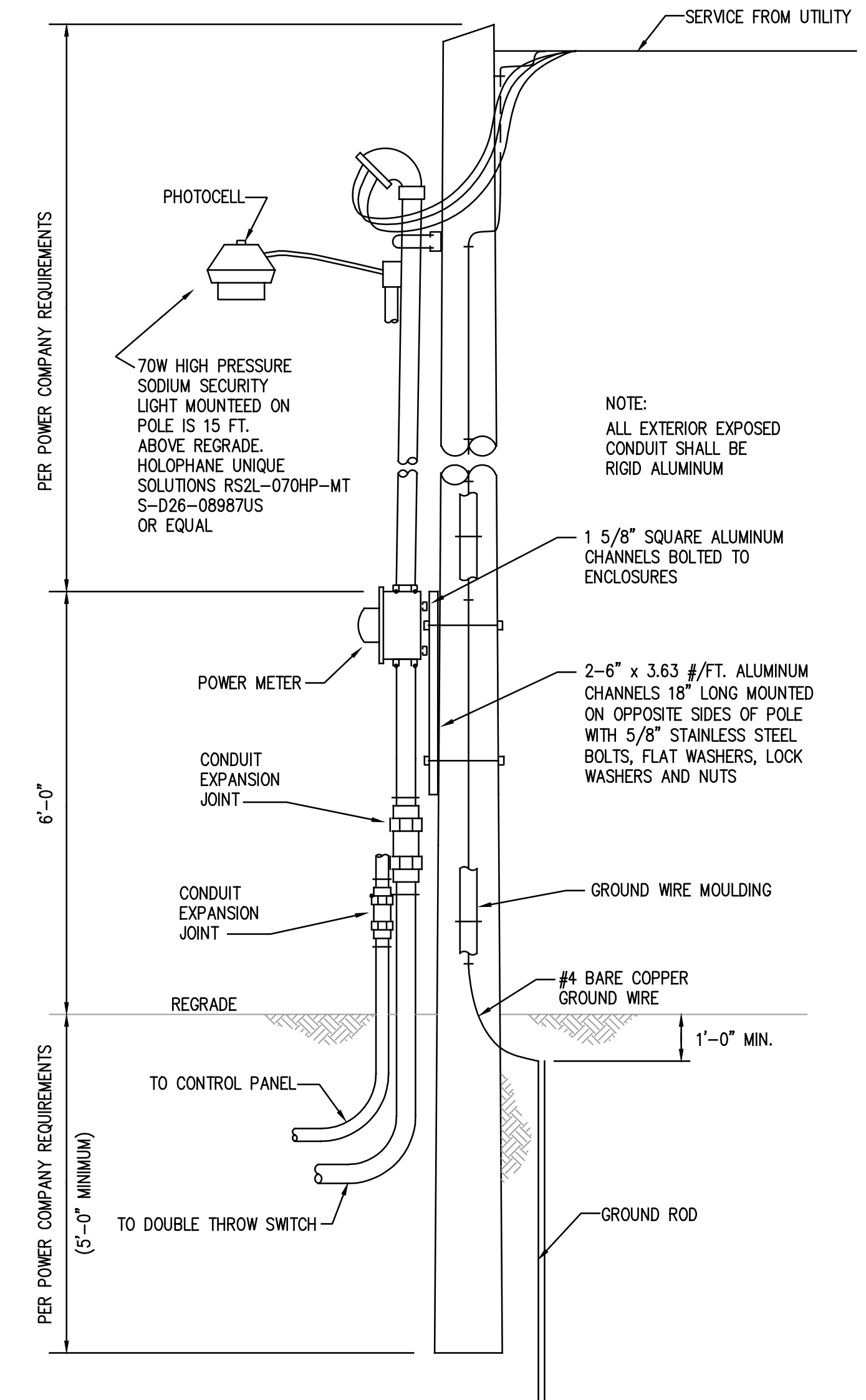
PLAN



SECTION

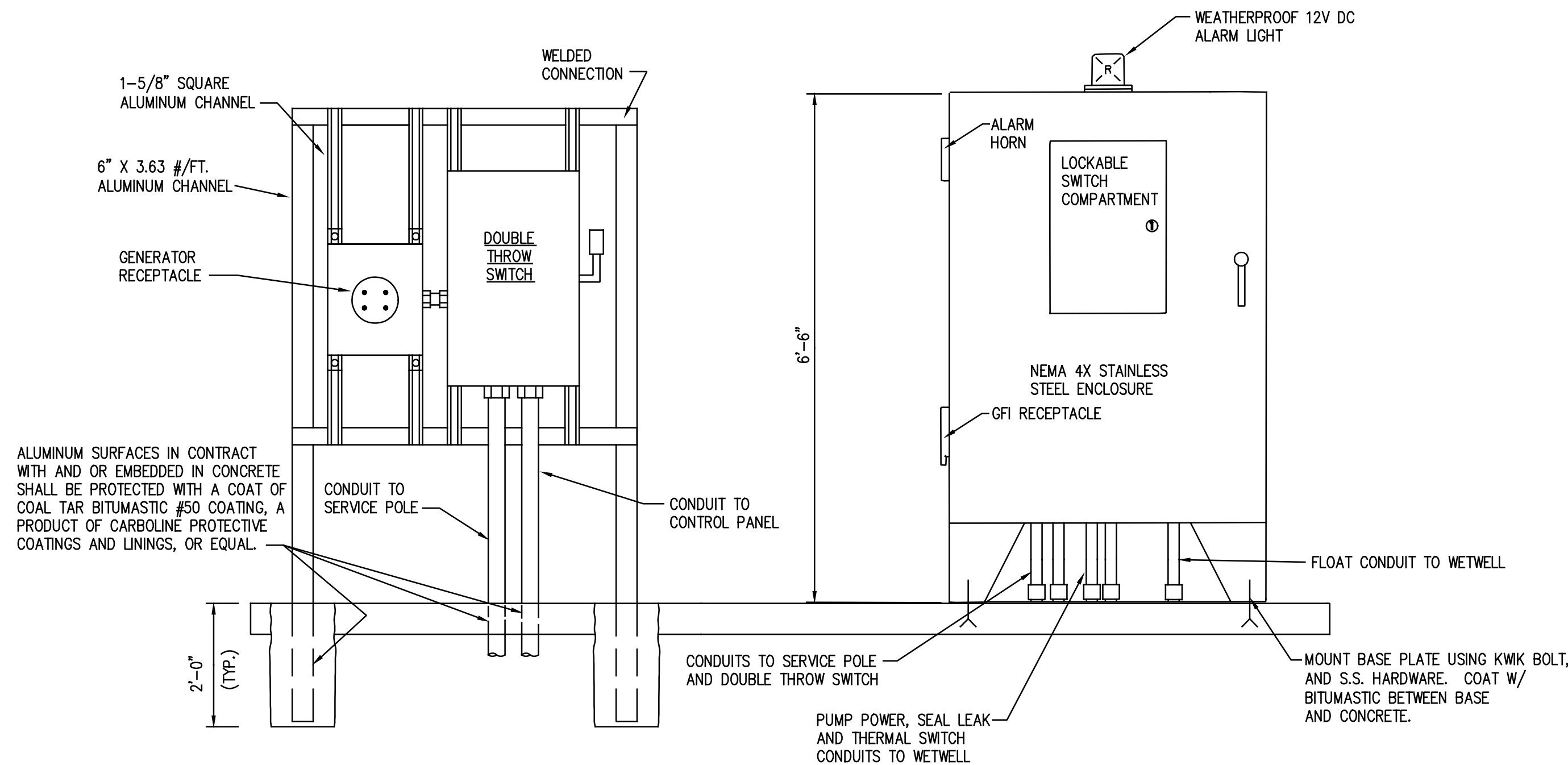
DETAIL - SLAB FOR RECEPTACLE, DT SWITCH, AND PUMP CONTROL PANEL

NOT TO SCALE



ELECTRIC SERVICE POLE DETAIL

NOT TO SCALE



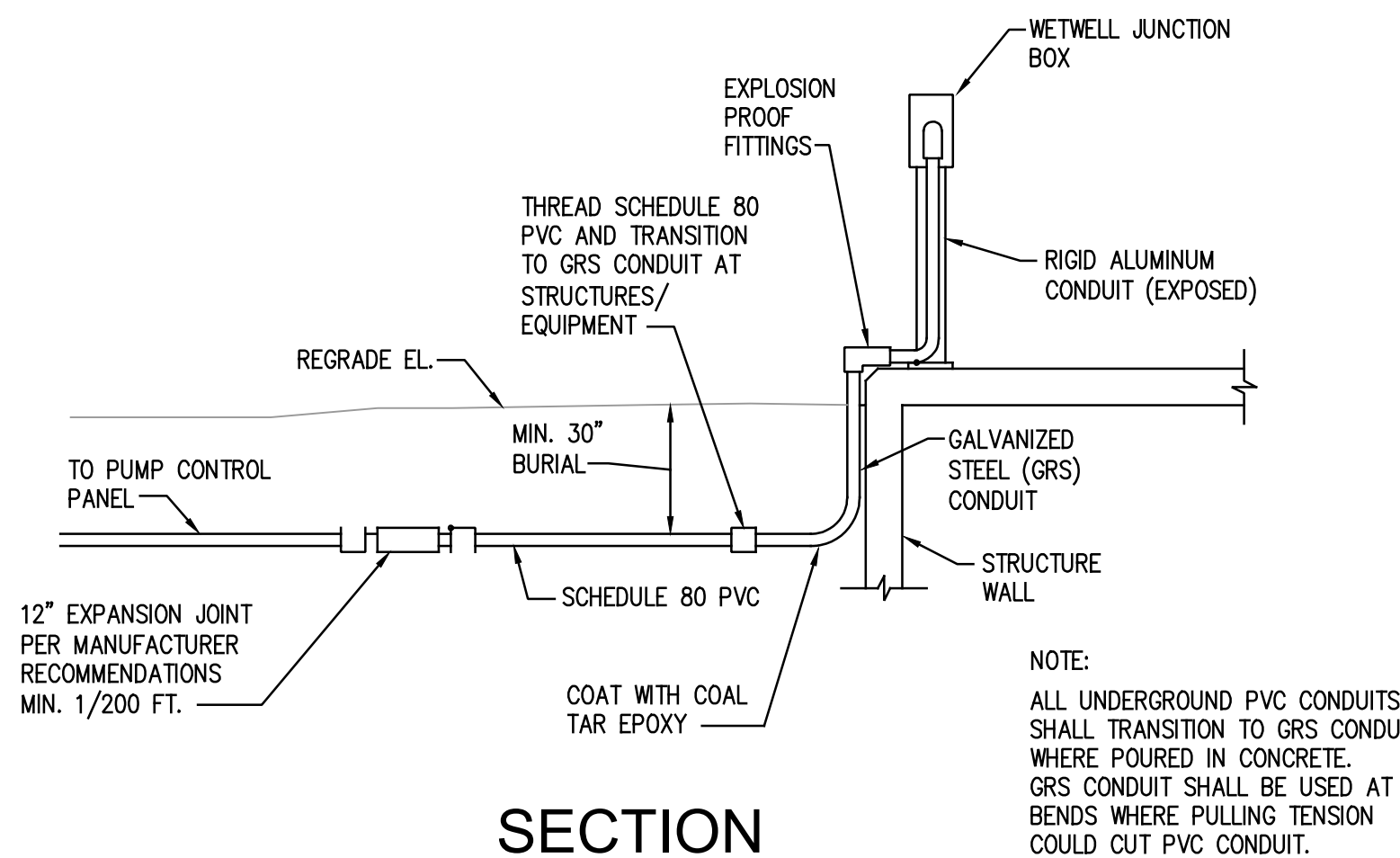
DOUBLE THROW SWITCH AND GENERATOR RECEPTACLE

NOT TO SCALE

ELEVATION PROPOSED PUMP CONTROL PANEL

NOT TO SCALE

(FOR PUMPING STATIONS WHERE DEDICATED STANDBY POWER IS NOT REQUIRED)



SECTION

TYPICAL UNDERGROUND PVC CONDUIT TRANSITION TO GRS CONDUIT

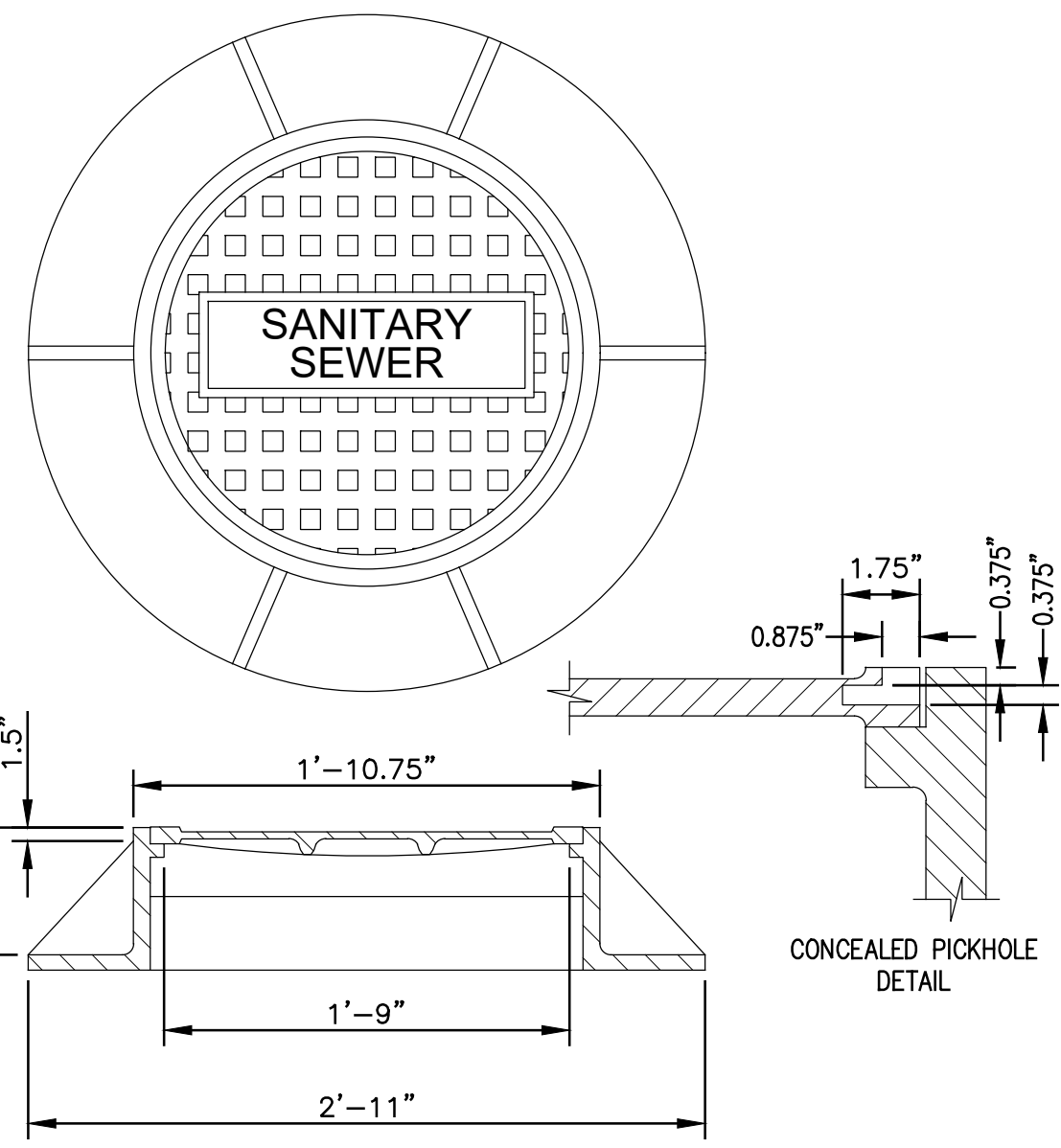
NOT TO SCALE

NOTE:

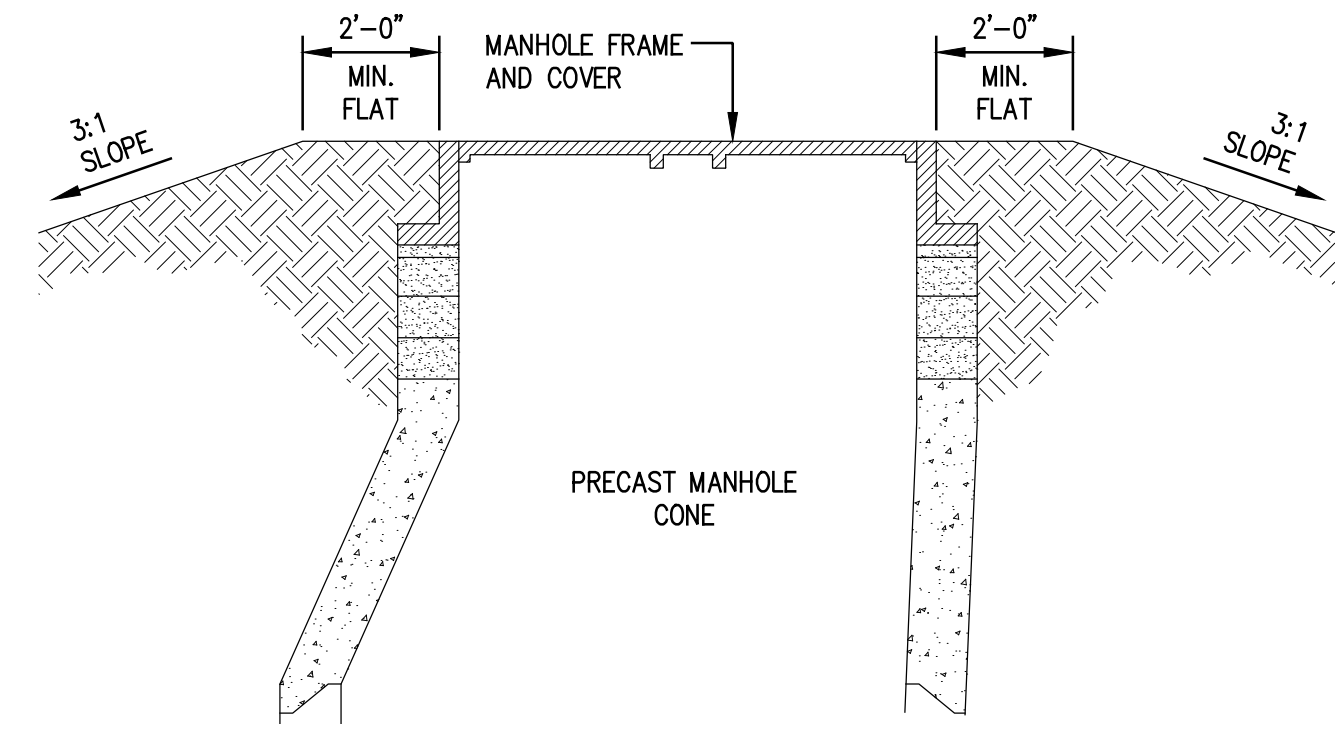
1. ELECTRICAL BOND BETWEEN CONDUIT AND PUMP SUPPORT COLUMN REQUIRED.
2. CONTRACTOR SHALL PROVIDE GUY WIRE AND ANCHOR FOR SERVICE POLE OPPOSITE SERVICE DROP IF REQUIRED BY POWER COMPANY.
3. DOUBLE THROW SAFETY SWITCHES IN STAINLESS STEEL ENCLOSURES ARE USUALLY AVAILABLE FROM ELECTRICAL EQUIPMENT MANUFACTURERS BY SPECIAL ORDER ONLY, AND SHOULD BE ORDERED AS SOON AS POSSIBLE BY THE CONTRACTOR.
4. EQUIPMENT AND WIRING INSIDE THE WETWELL SHALL CONFORM TO NEC 501 AND OTHER APPLICABLE REQUIREMENTS FOR A CLASS I, DIVISION 1, GROUP D HAZARDOUS LOCATION.
5. UNDERGROUND CONDUITS SHALL BE SEALED WITH SILICONE CAULK.
6. THE REQUIREMENT FOR A PUMPING STATION TO HAVE DEDICATED STANDBY POWER SHALL BE AT THE DISCRETION OF THE WASTEWATER DEPARTMENT MANAGER.
7. RTU/DIALER SHALL BE FURNISHED BY EAGLE RESEARCH CORP. AND INSTALLED BY PANEL BUILDER.

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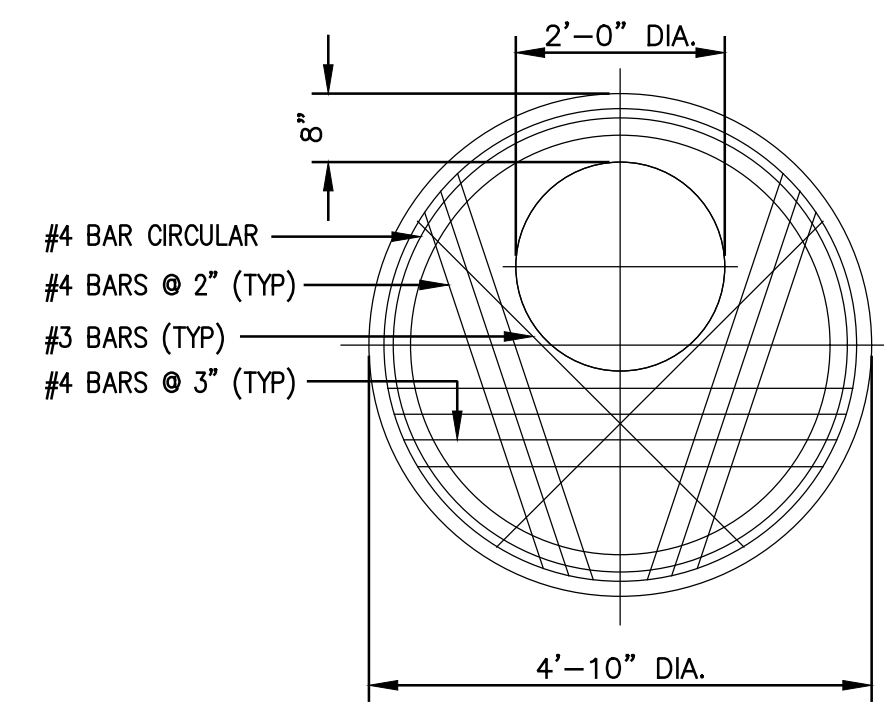
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DRAWN BY:	CMB	ARR	ARR
CHECKED BY:	ARR	19014	19014
PROJECT NO.:	JUNE 2021	JUNE 2021	JUNE 2021
DATE:	CAD DWG ID:	19014 CONTRACT 38 WWP/	19014 CONTRACT 38 WWP/



DETAIL - MANHOLE FRAME AND COVER
NOT TO SCALE



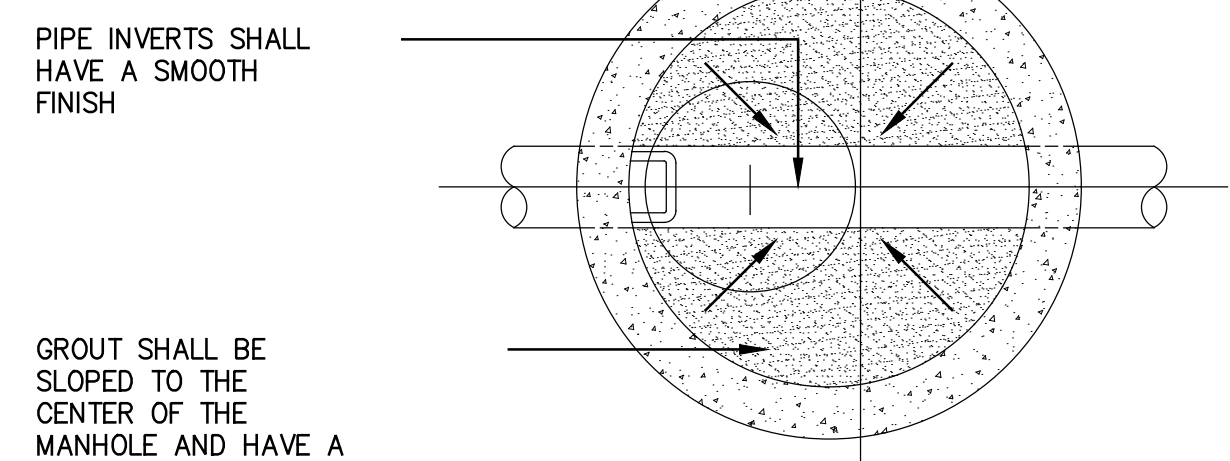
DETAIL - EARTH MOUND 3:1 SLOPE
NOT TO SCALE



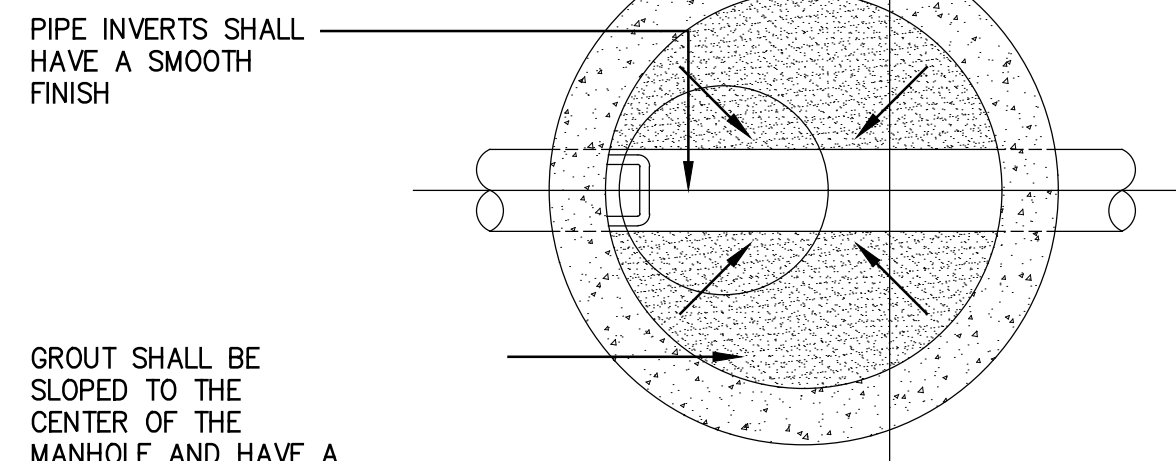
DETAIL - CONCRETE TOP SLAB
NOT TO SCALE

NOTES FOR ALL MANHOLE TYPES:

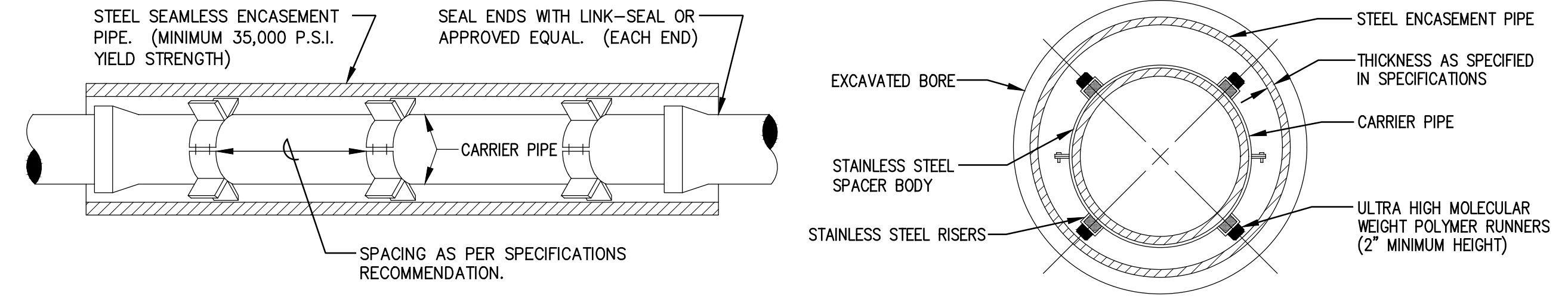
- MANHOLES 5 FEET OR LESS IN DEPTH (RIM TO INVERT) SHALL HAVE A FLAT TOP SLAB IN LIEU OF AN ECCENTRIC CONE SECTION (SEE SHALLOW MANHOLE DETAIL).
- COAT OUTSIDE OF ADJUSTING RINGS WITH ASPHALT DAMPROOFING COMPOUND APPLIED BY BRUSHING OR SPRAY.
- PROVIDE A MINIMUM FALL OF 0.1 FOOT FROM DROP INLET TO MANHOLE OUTLET.
- MANHOLE STEPS SHALL BE ALIGNED WITH STRAIGHT SIDE OF ECCENTRIC CONE SECTION, AND ALIGNED OVER THE OUTLET PIPE.
- MANHOLE STEPS SHALL BE POLYETHYLENE W/ REBAR REINFORCEMENT AND EMBEDDED MINIMUM 1-3/8" BEYOND STEEL MAT (MINIMUM DEPTH INTO CONCRETE SHALL BE 3-3/8").
- MANHOLE CASTING TO BE SET IN FULL MORTAR BED.
- ALL SEAMS AND ANY LIFTING HOLES SHALL BE GROUTED IN.



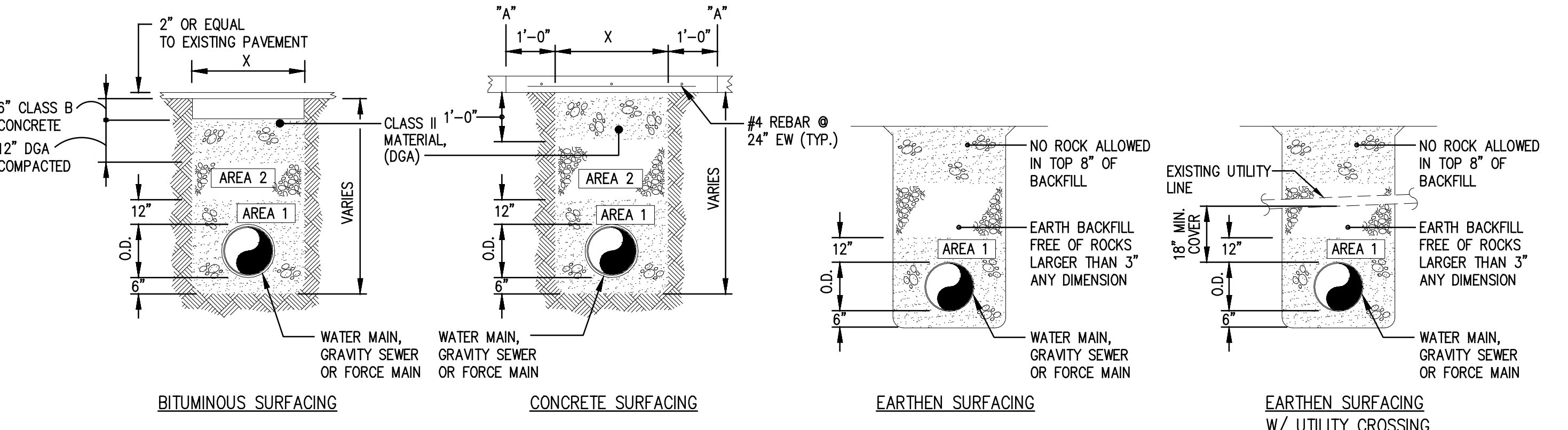
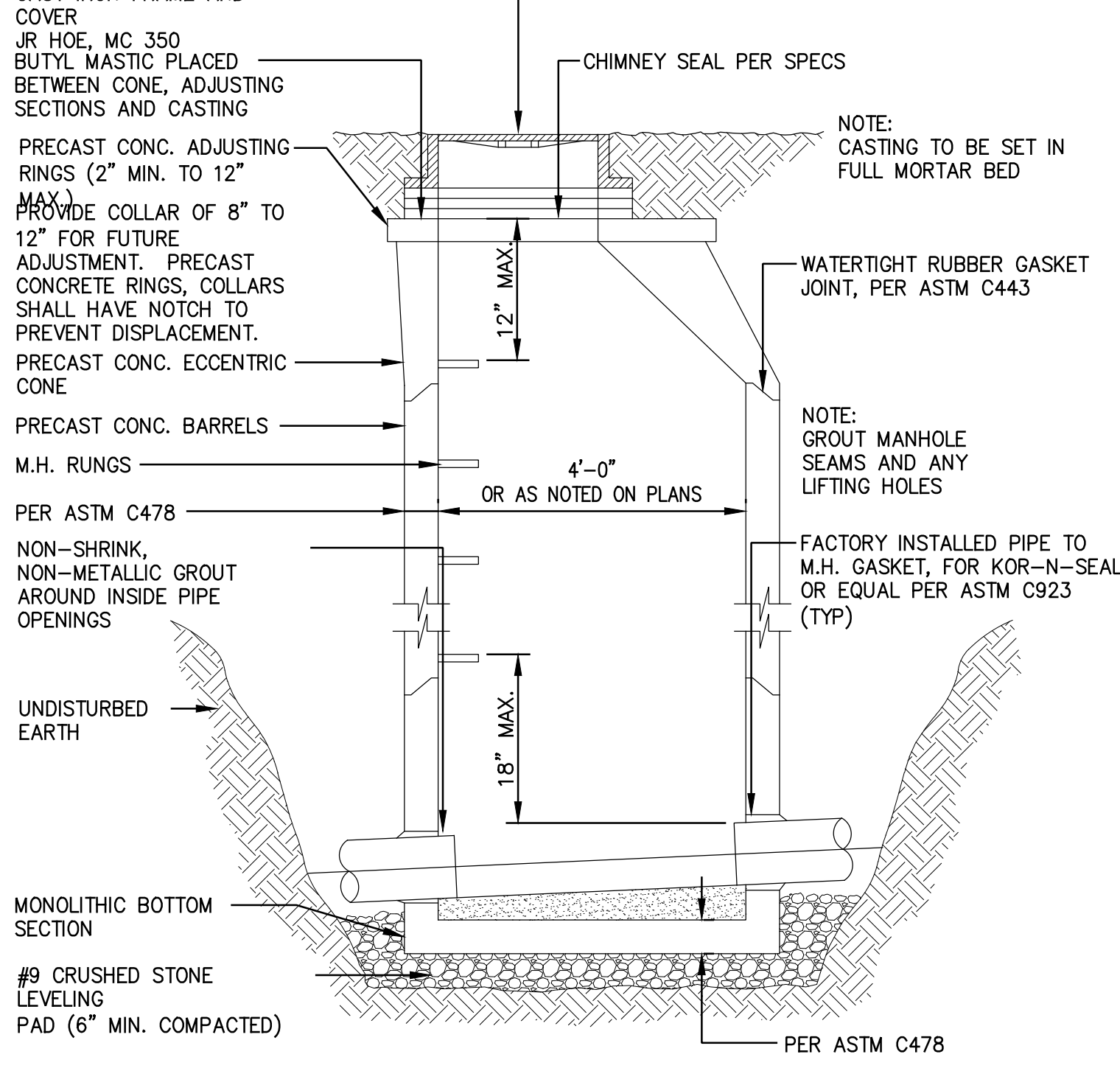
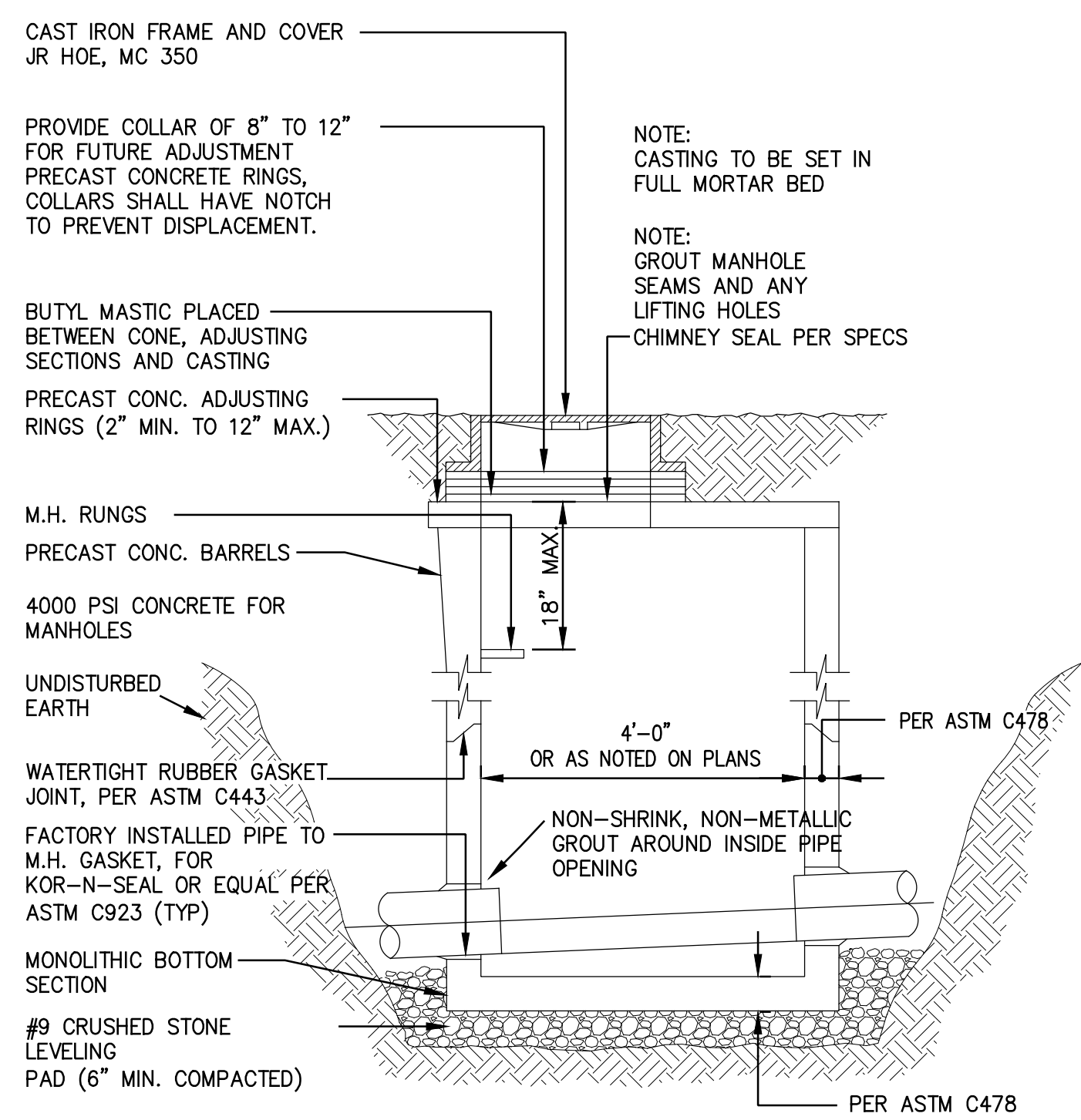
PLAN - SHALLOW MANHOLE
NOT TO SCALE



PLAN - STANDARD MANHOLE
NOT TO SCALE



STEEL ENCASEMENT AND ASSEMBLY
NOT TO SCALE



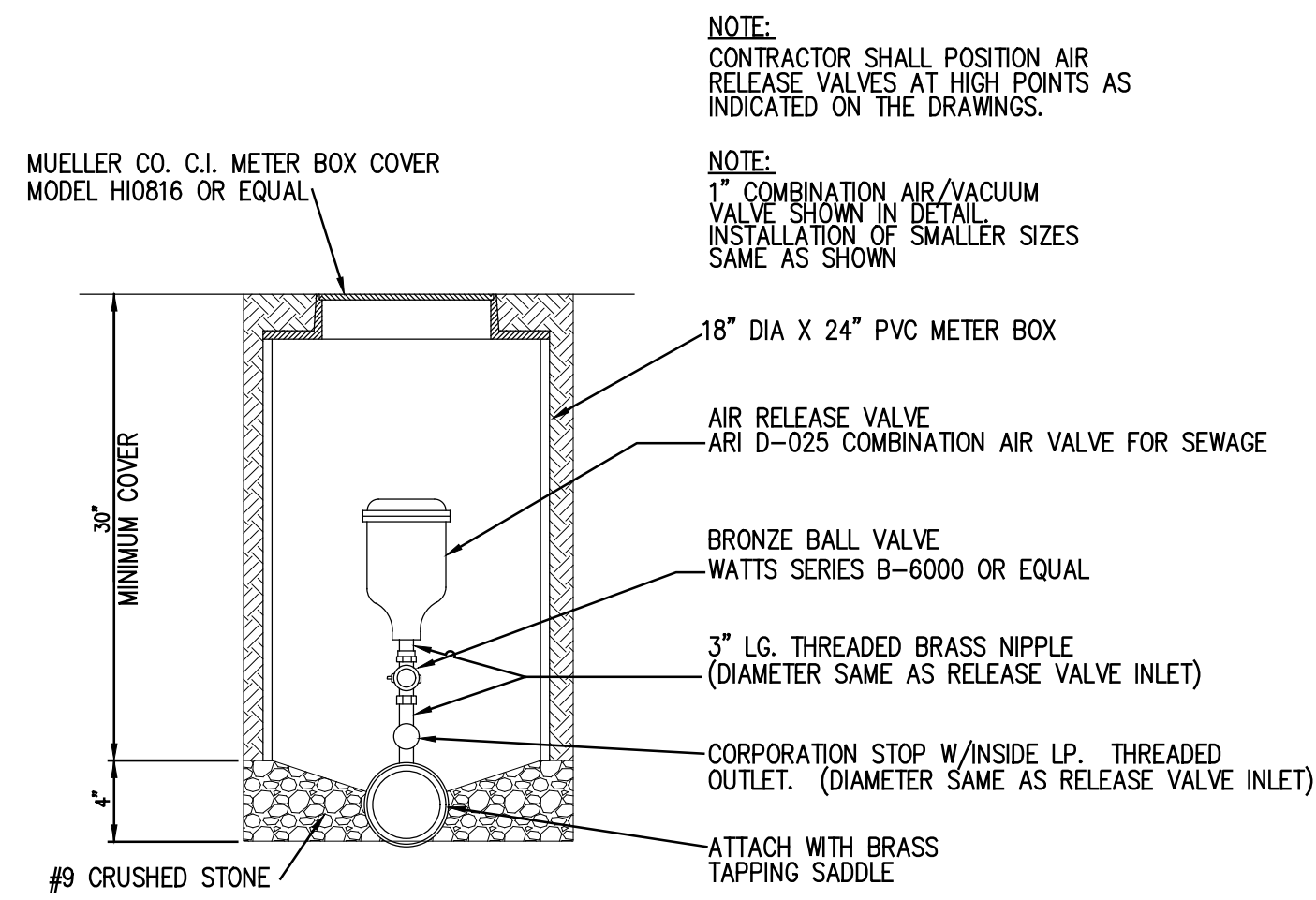
- NOTES:**
- AREA 1 MATERIAL: WATER MAIN, GRAVITY SEWER AND FORCE MAIN = NO. 9 CRUSHED STONE.
 - AREA 2 = NO. 9 CRUSHED STONE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRENCH SURFACE IN A CONDITION SUITABLE FOR VEHICULAR TRAFFIC.
 - REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
 - IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO. 9 CRUSHED STONE MUST BE PLACED UNDER THE ENCASEMENT PIPE (IF OPEN CUT).
 - X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (2' + PIPE O.D.).
 - FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST SIX (6) FEET OR MORE, IF LESS THAN SIX (6) FEET REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.

Alan R. Robinson
 7-5-22
 ALAN R. ROBINSON
 23,414
 LICENSED PROFESSIONAL ENGINEER

DATE:	
BY:	
REVISION:	
1"=10'	ARR
	WBD
DESIGNED BY:	ARR
DRAWN BY:	ARR
CHECKED BY:	ARR
PROJECT NO.:	19014
DATE:	JUNE 2021
CAD DWG ID.:	JOB 19014 FIBROTEX PA & MWTP MAP

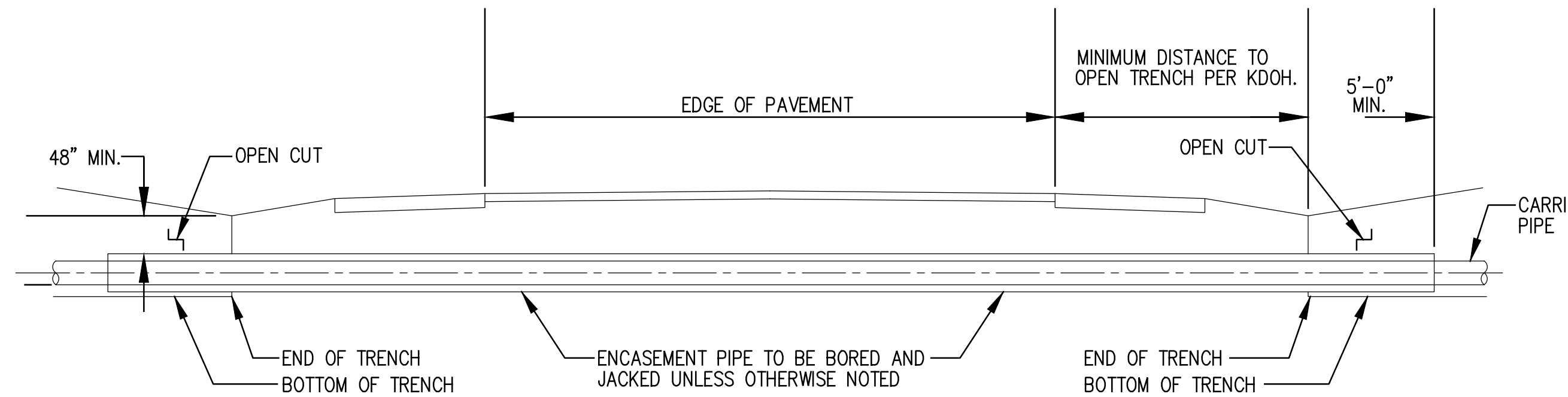
McCree County
Water District
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

STANDARD DETAILS
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN



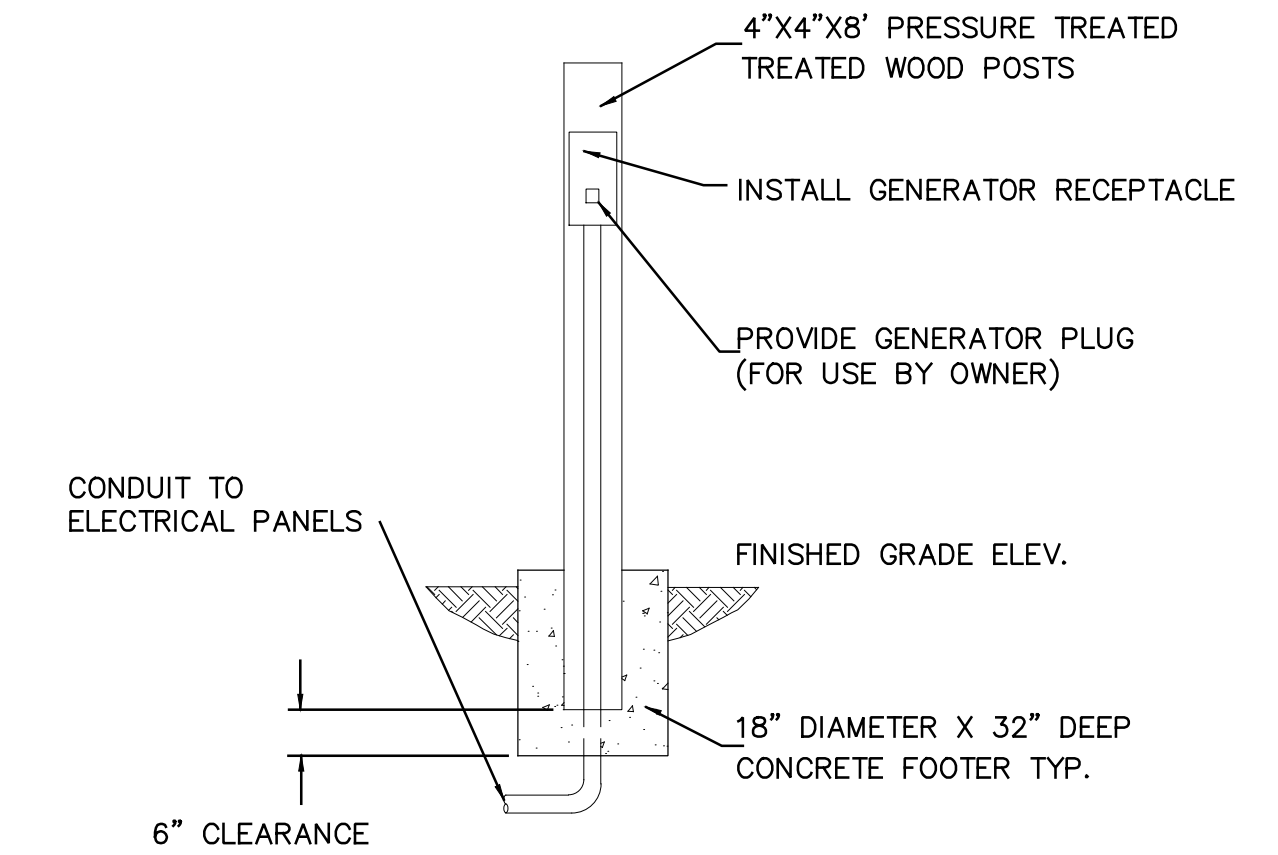
2" AIR RELEASE VALVE ASSEMBLY

NOT TO SCALE



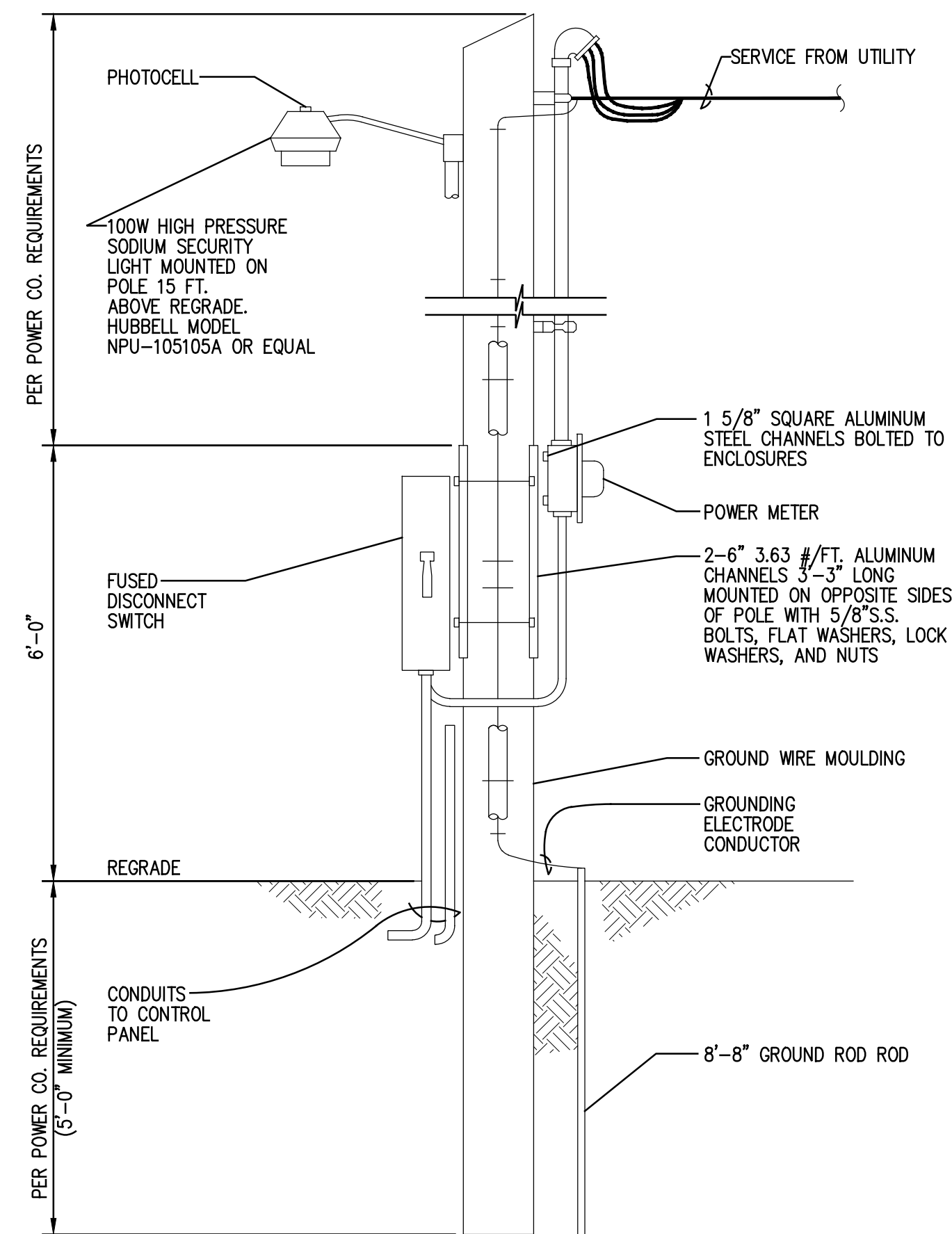
CROSS SECTION OF ENCASED ROAD CROSSING - (TYP.)

NOT TO SCALE



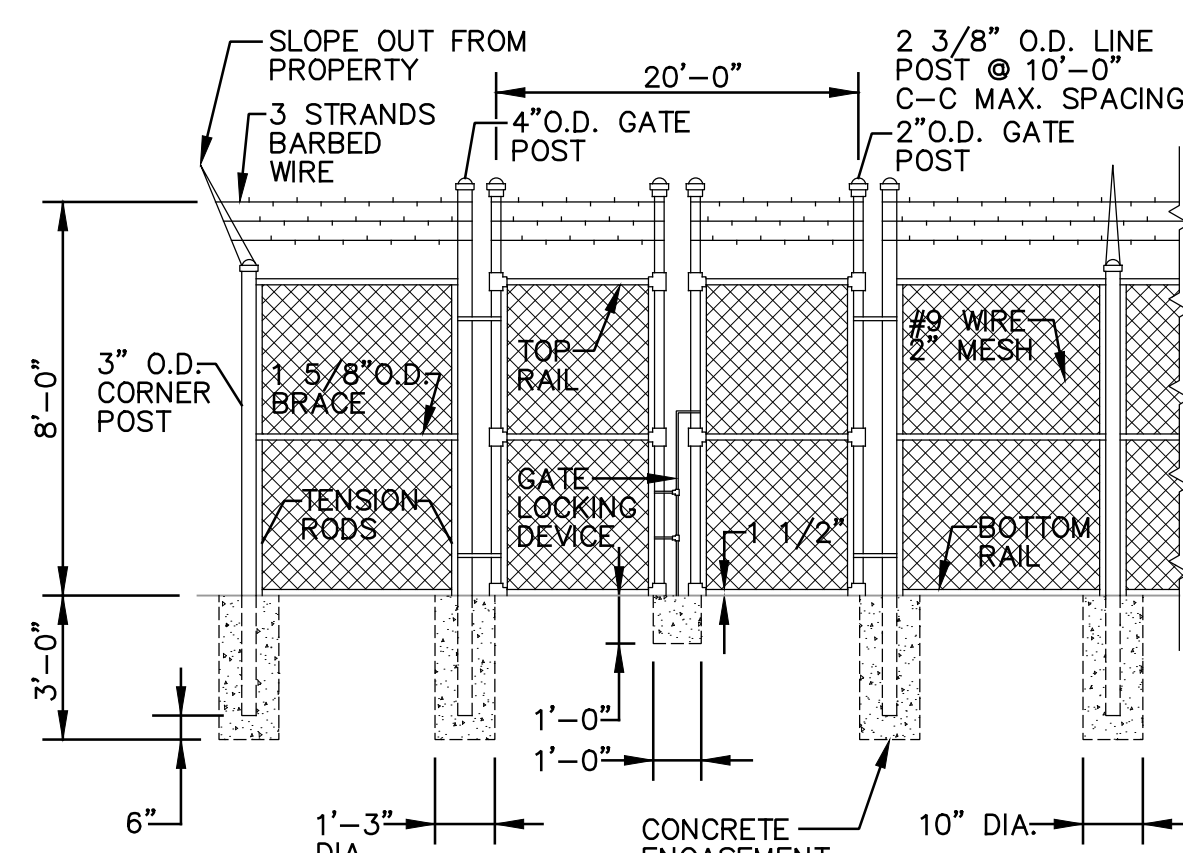
**GENERATOR RECEPTACLE
INSTALLATION DETAIL**

NOT TO SCALE



ELECTRIC SERVICE POLE DETAIL

NOT TO SCALE



DETAIL - SECURITY FENCE

NOT TO SCALE

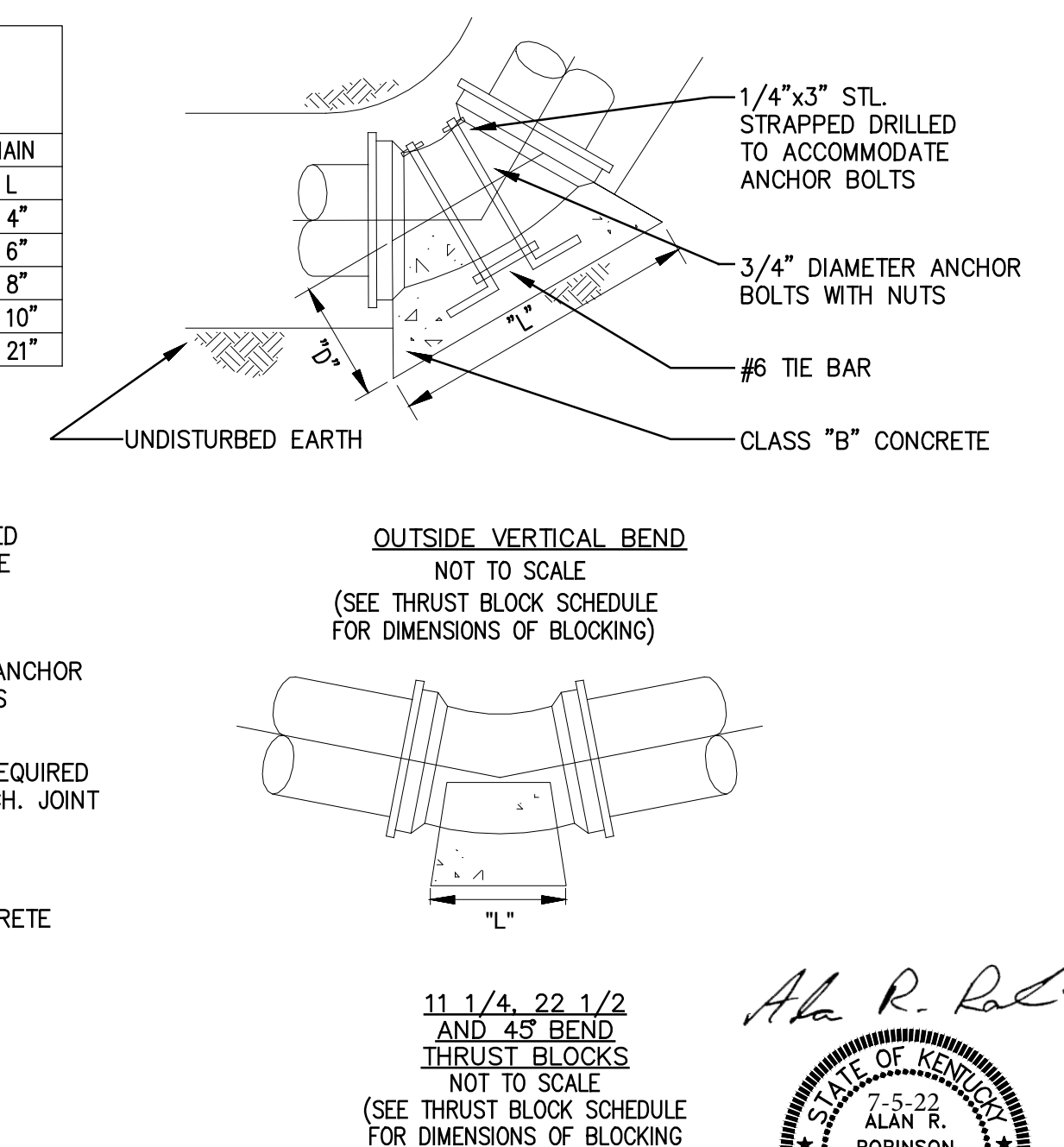
THRUST BLOCK SCHEDULE

SIZE	90° BEND			45° BEND			22 1/2° BEND			11 1/4° BEND			TEE & END MAIN		
	D	W	L	D	W	L	D	W	L	D	W	L	D	W	L
2"	6"	10"	4"	4"	7"	3"	4"	7"	3"	4"	7"	3"	6"	10"	4"
3"	6"	10"	8"	4"	8"	6"	4"	8"	3"	4"	8"	3"	6"	10"	6"
4"	6"	11"	9"	6"	11"	7"	4"	9"	5"	4"	9"	3"	6"	11"	8"
6"	8"	15"	13"	6"	13"	12"	4"	11"	8"	4"	11"	4"	8"	15"	10"
8"	10"	21"	19"	8"	17"	17"	6"	15"	10"	4"	13"	6"	10"	11"	21"

W = WIDTH OF CONCRETE FROM UNDISTURBED TRENCH WALL TO UNDISTURBED TRENCH WALL

THRUST BLOCKING

NOT TO SCALE



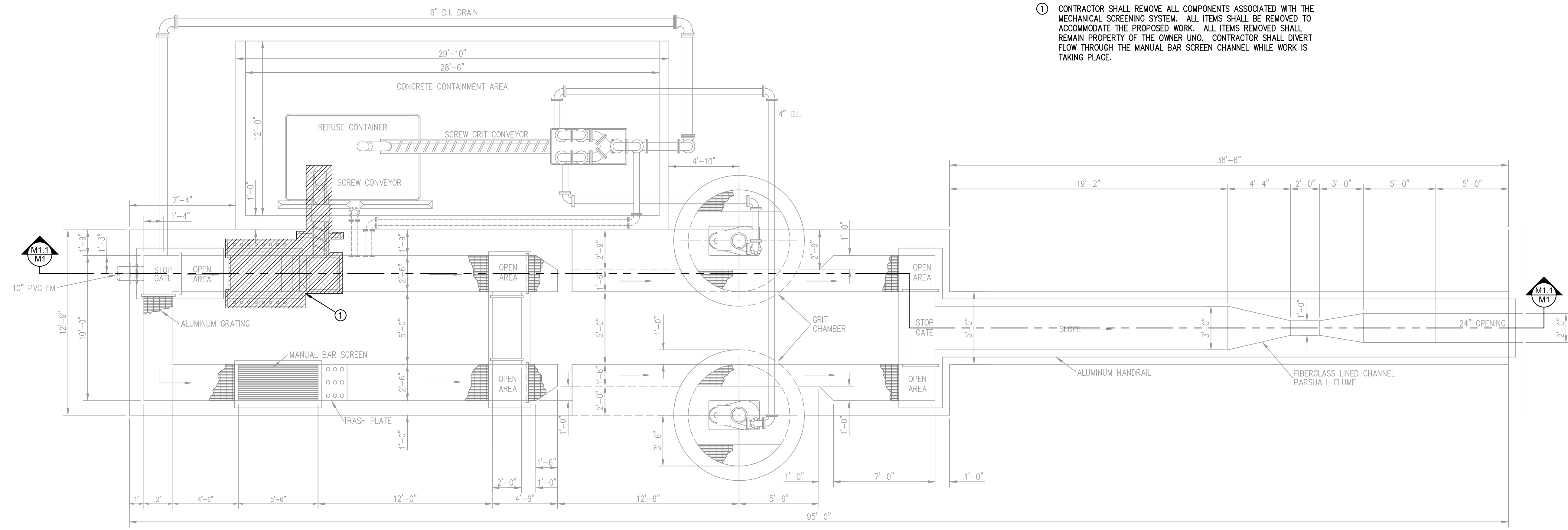
11 1/4, 22 1/2 AND 45° BEND THRUST BLOCKS
NOT TO SCALE
(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)

Alan R. Robinson

SCALE:	DESIGNED BY:	DATE:
AS SHOWN	ARR	
REVISION:	BY:	
ARR		
WBD		
ARR		
ARR		
19014		
JUNE 2021		
CAD DWG ID: JOB 18014 FIBROTEX PA & HWTP MAP		

**McCREARY COUNTY
WATER DISTRICT**
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

STANDARD DETAILS
 CONTRACT No. 37 - FIBROTEX SANITARY SEWER
 PUMP STATION AND FORCE MAIN

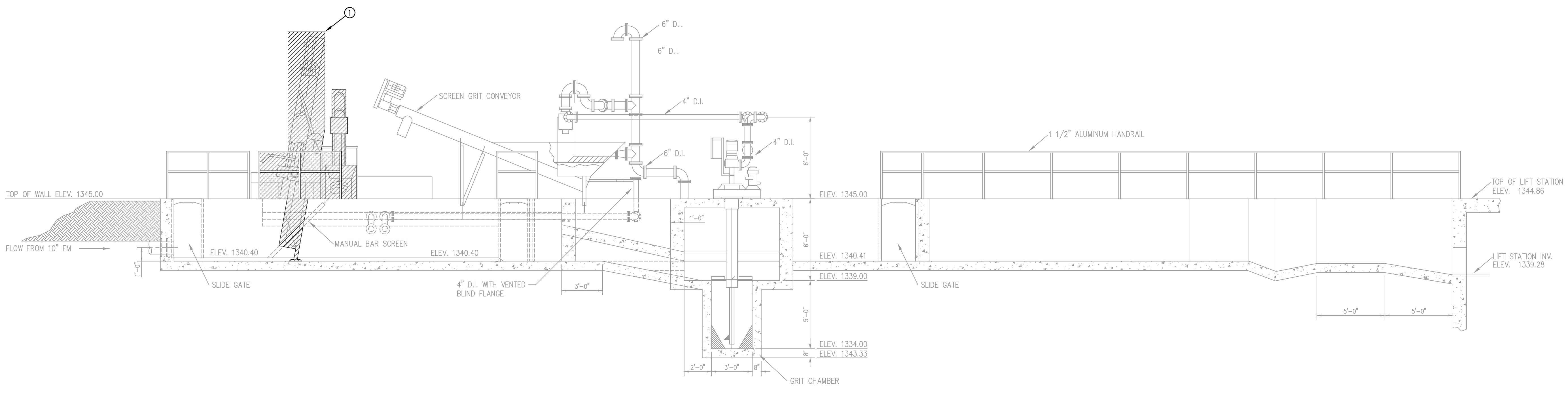
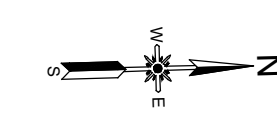


KEYNOTES

- ① CONTRACTOR SHALL REMOVE ALL COMPONENTS ASSOCIATED WITH THE MECHANICAL SCREENING SYSTEM. ALL ITEMS SHALL BE REMOVED TO ACCOMMODATE THE PROPOSED WORK. ALL ITEMS REMOVED SHALL REMAIN PROPERTY OF THE OWNER UNO. CONTRACTOR SHALL DIVERT FLOW THROUGH THE MANUAL BAR SCREEN CHANNEL WHILE WORK IS TAKING PLACE.

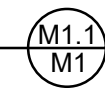
PLAN - DEMOLITION

SCALE 1/4" = 1'-0"

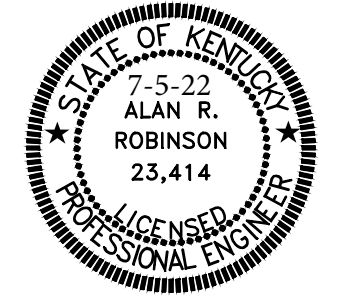


SECTION

SCALE 1/4" = 1'-0"



Alan R. Robinson



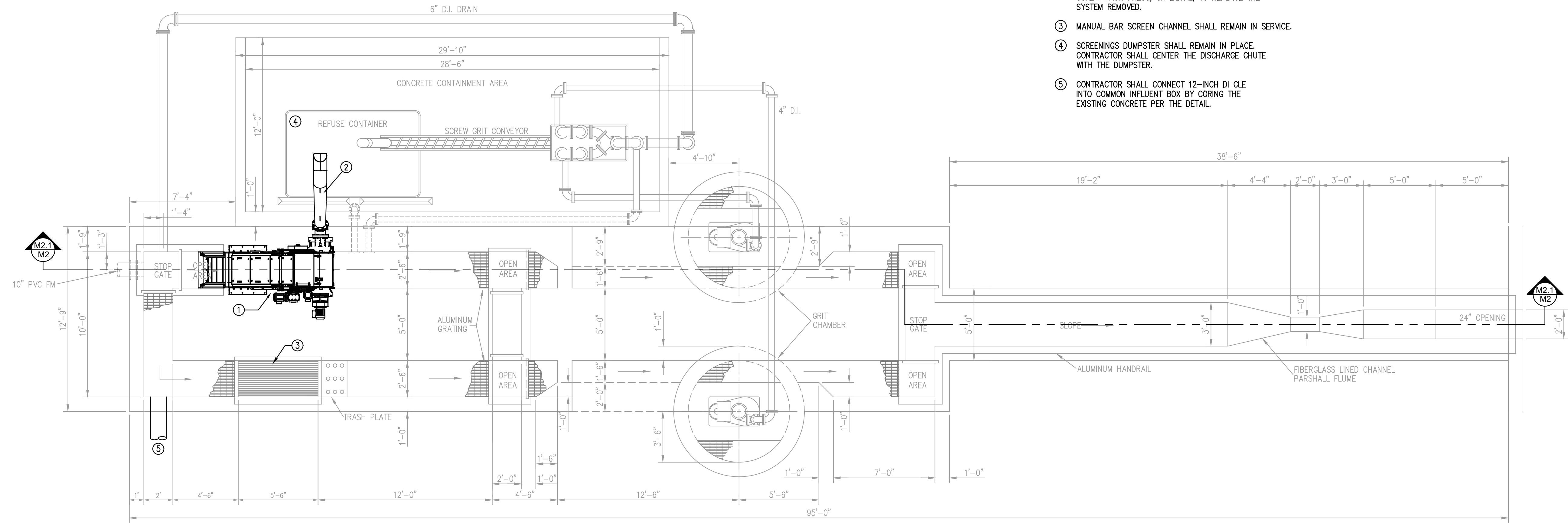
ECLIPSE ENGINEERS, PLLC
 115 WEST MT. VERNON STREET
 SUMMIT, KENTUCKY 40301
 PHONE: 606-451-0959

SCALE:	1/4" = 1'-0"
DESIGNED BY:	ARR
DRAWN BY:	CHB
CHECKED BY:	ARR
PROJECT NO.:	19074
DATE:	JUNE 2021
CADD DWG ID:	19014 CONTRACT 37 WWTTP

McCREARY COUNTY
 WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42683

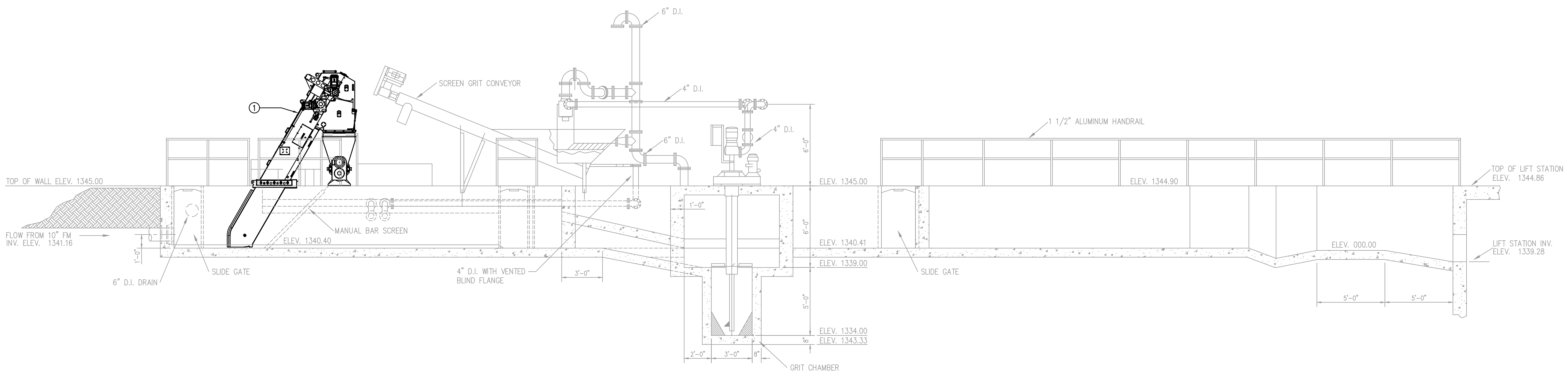
SCREENING SYSTEM DEMOLITION -
 PLAN AND SECTION
 CONTRACT NO. 37
 WASTEWATER TREATMENT PLANT IMPROVEMENTS

SHEET NUMBER:
M-1



- ### KEYNOTES
- CONTRACTOR SHALL INSTALL ONE (1) FRSH 550X60 FSM FILTER SYSTEM, OR EQUAL, TO REPLACE THE MECHANICAL SCREEN REMOVED.
 - CONTRACTOR SHALL INSTALL ONE (1) SPW 200-700 FSM SCREW WASH PRESS, OR EQUAL, TO REPLACE THE SYSTEM REMOVED.
 - MANUAL BAR SCREEN CHANNEL SHALL REMAIN IN SERVICE.
 - SCREENINGS DUMPSTER SHALL REMAIN IN PLACE. CONTRACTOR SHALL CENTER THE DISCHARGE CHUTE WITH THE DUMPSTER.
 - CONTRACTOR SHALL CONNECT 12-INCH DI CLE INTO COMMON INFLUENT BOX BY CORING THE EXISTING CONCRETE PER THE DETAIL.

PLAN - IMPROVEMENTS
SCALE 1/4" = 1'-0"



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

Alan R. Robinson

STATE OF KENTUCKY
7-5-22
ALAN R. ROBINSON
23,414
LICENSED PROFESSIONAL ENGINEER

ECLIPSE ENGINEERS, PLLC

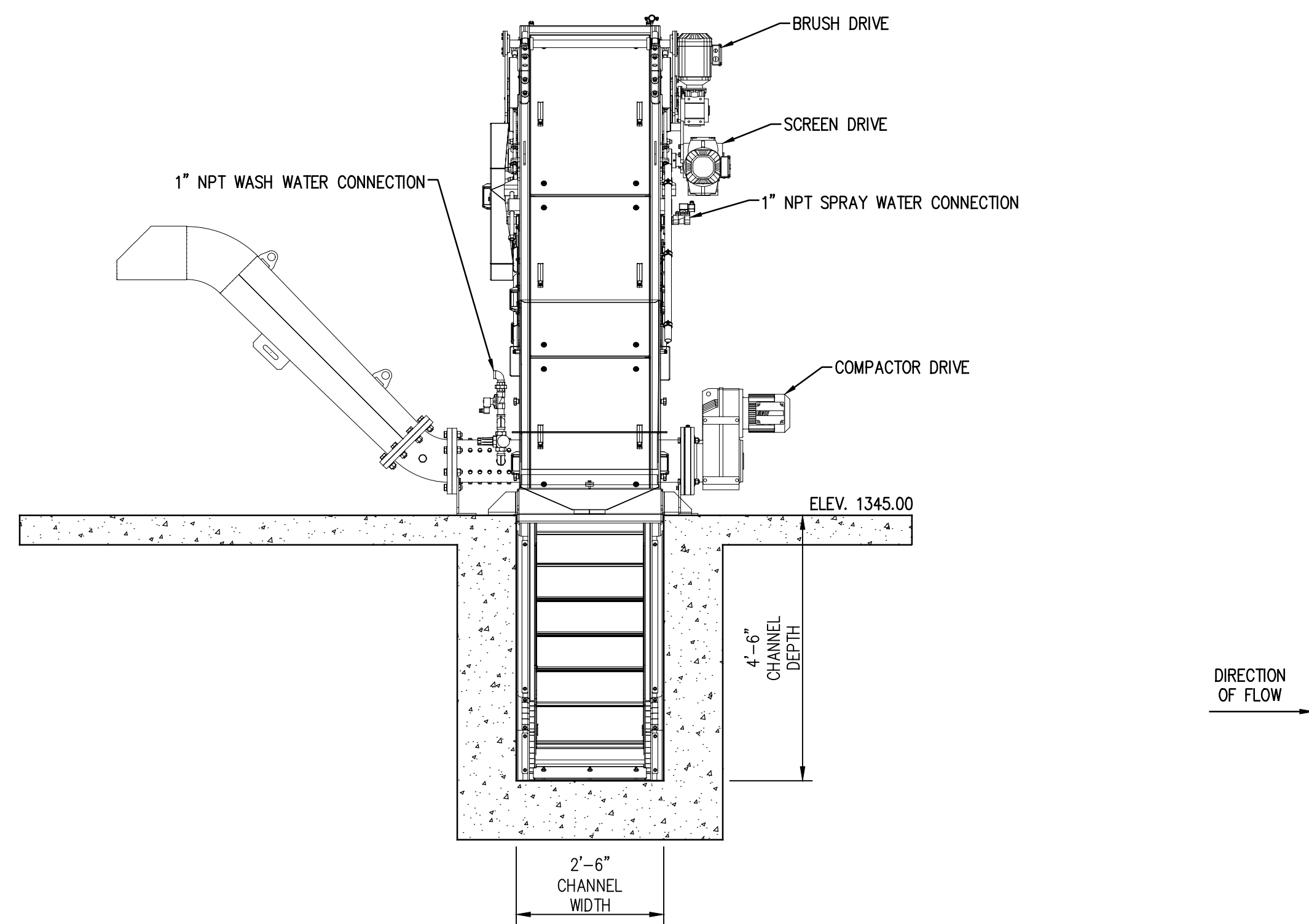
115 WEST MT. VERNON STREET
SOMERSET, KENTUCKY 40361
PHONE: 606-451-0959

SCALE:	1/4"=1'-0"
DESIGNED BY:	ARR
DRAWN BY:	CHR
CHECKED BY:	ARR
PROJECT NO.:	19074
DATE:	JUNE 2021
CADD DWG ID.:	19014 CONTRACT 37 WWTTP
REVISION:	
BY:	
DATE:	

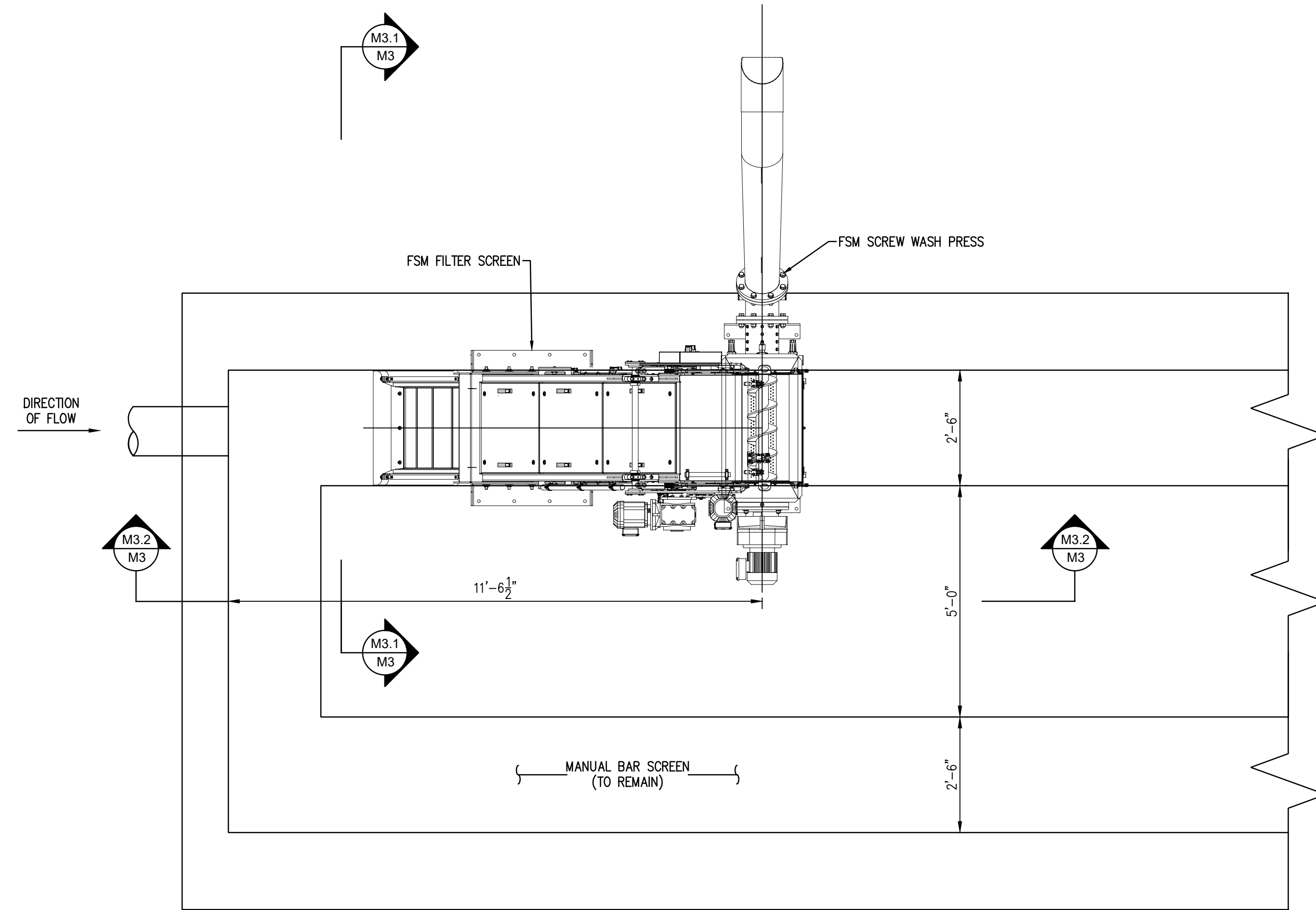
McCREARY COUNTY
WATER DISTRICT
456 N. HWY 27
WHITLEY CITY, KENTUCKY 42683

SCREENING SYSTEM IMPROVEMENTS -
PLAN AND SECTION
CONTRACT NO. 37
WASTEWATER TREATMENT PLANT IMPROVEMENTS

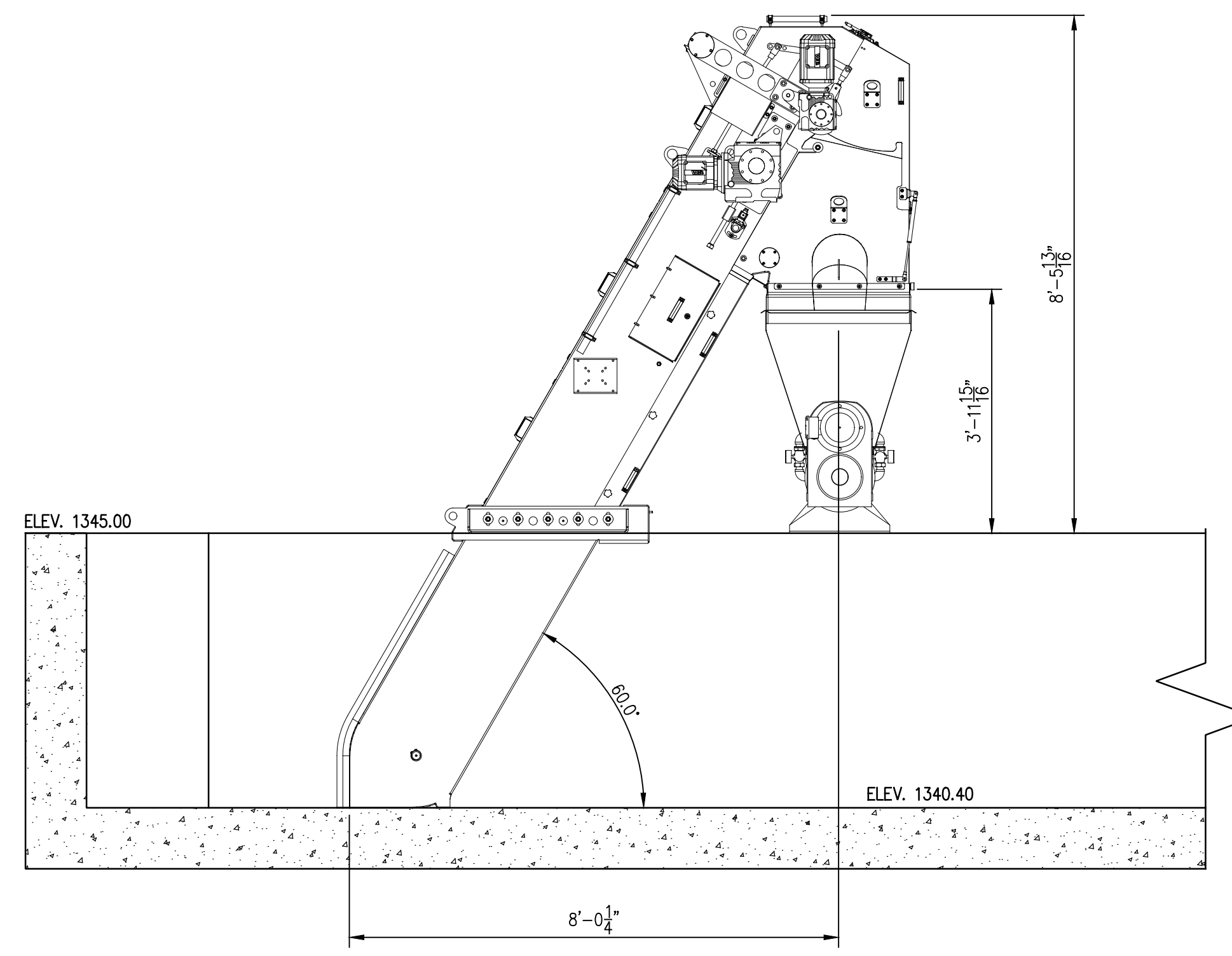
SHEET NUMBER:
M-2



SECTION
SCALE: 1/2"=1'-0"
M3.1
M3



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



SECTION
SCALE: 1/2"=1'-0"
M3.2
M3

Alan R. Robinson

ECLIPSE ENGINEERS, PLLC
 113 WEST AVE., VERONA STREET
 SPANGLER, KENTUCKY 40361
 PHONE: 606-451-0959

SCALE:	1/2" = 1'-0"
DESIGNED BY:	ARR
DRAWN BY:	CHB
CHECKED BY:	ARR
PROJECT NO.:	19074
DATE:	JUNE 2021
CADD DWG ID:	19014 CONTRACT 37 WWTTP

McCREARY COUNTY WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

SCREENING SYSTEM - DETAILS
CONTRACT NO. 37
WASTEWATER TREATMENT PLANT IMPROVEMENTS

SHEET NUMBER:
M-3