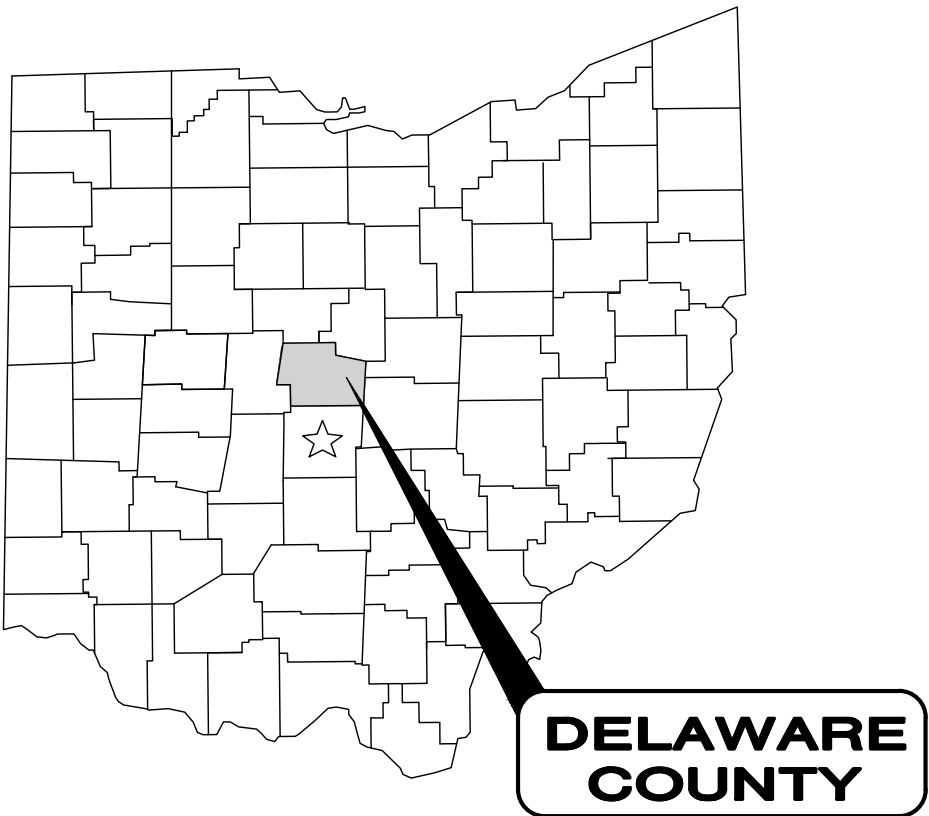


CITY OF SUNBURY
DELAWARE COUNTY, OHIO
**CHESHIRE ROAD
LIFT STATION UPGRADES**
FEBRUARY, 2025



OWNER

CITY OF SUNBURY
9 E. GRANVILLE STREET
SUNBURY, OH 43074
PHONE: 740-965-2684
CONTACT: DARYL HENNESSY
CITY ADMINISTRATOR
EMAIL: DHENNESSY@SUNBURYOHIO.ORG

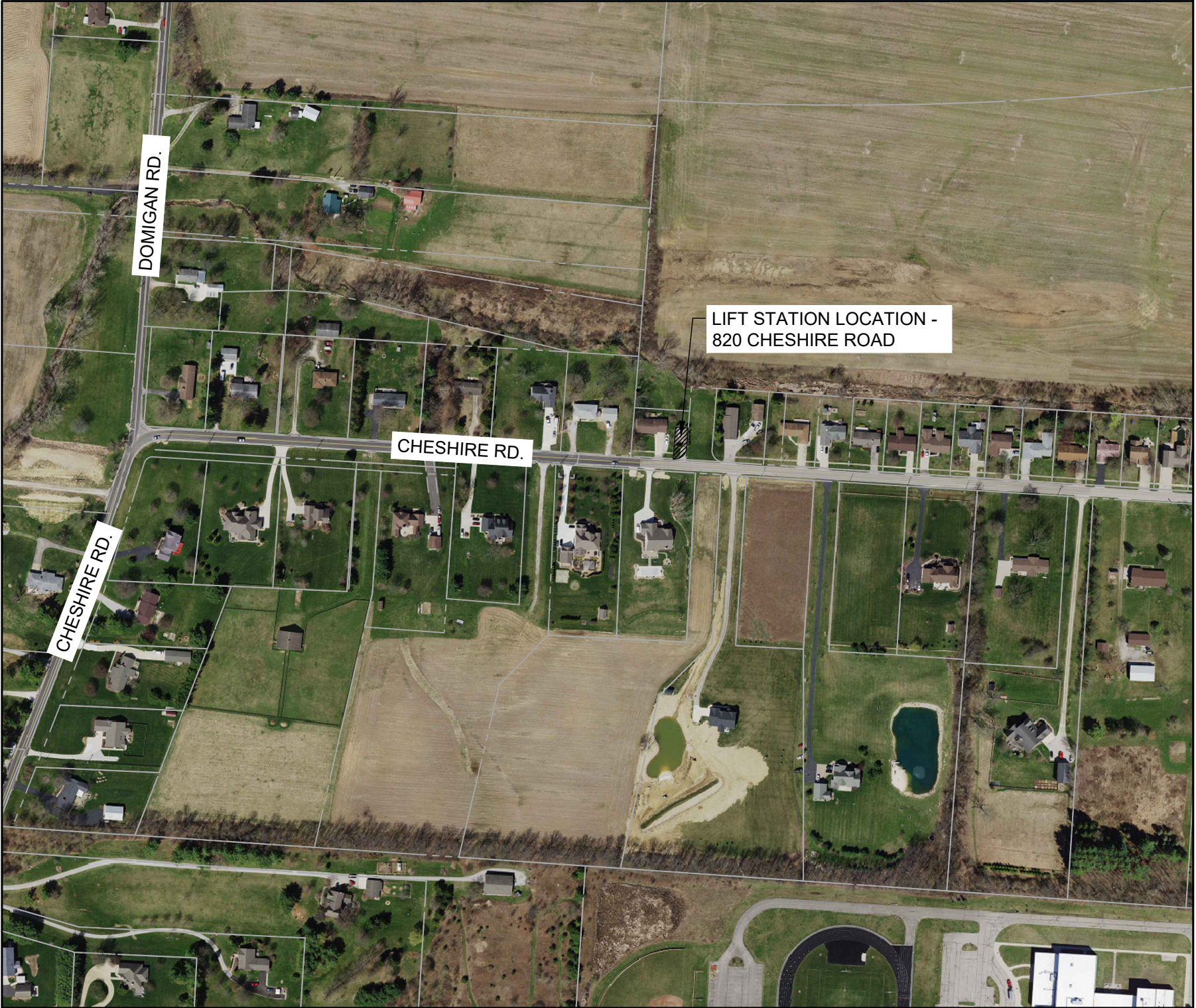
ENGINEER

VERDANTAS
6397 EMERALD PKWY, SUITE 200
DUBLIN, OH 43016
OFFICE: 614-793-8777
CONTACT: DAN BARR, PE
EMAIL: DBARR@VERDANTAS.COM

CITY OFFICIALS

ADMINISTRATION
JOE ST. JOHN.....MAYOR
DARYL HENNESSY.....CITY ADMINISTRATOR
DANA STEFFAN.....FISCAL OFFICER
ROBERT HOWARD.....POLICE CHIEF

COUNCIL
JOHN GRUMNEY.....PRESIDENT
MOLLY DRAYER.....COUNCIL MEMBER
DAVID MARTIN.....COUNCIL MEMBER
DAMIN CAPPEL.....COUNCIL MEMBER
CINDI COOPER.....COUNCIL MEMBER
TIM GOSE.....COUNCIL MEMBER



LOCATION MAP
SCALE: 1"=300'

INDEX OF SHEETS		
SHEET NUMBER	SHEET TITLE	SHEET NAME
1	COVER SHEET	G-01
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4	LIFT STATION SITE PLAN	C-01
5	LIFT STATION PUMP DETAILS	C-02
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CONSTRUCTION PLAN APPROVALS:

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. THE REVIEWER DOES NOT ACCEPT RESPONSIBILITY FOR THE INTEGRITY OF THE PLANS.

Daryl Hennessy 2-11-25
DARYL HENNESSY, CITY ADMINISTRATOR, CITY OF SUNBURY

Carla Odebralski 2/11/2025
CARLA ODEBRALSKI, P.E., CITY ENGINEER, CITY OF SUNBURY

DESIGN ENGINEER:

THIS IS TO CERTIFY THAT GOOD ENGINEERING PRACTICES HAVE BEEN UTILIZED IN THE DESIGN OF THIS PROJECT AND THAT ALL MINIMUM STANDARDS FOR FAIRFIELD COUNTY, INCLUDING THOSE STANDARDS GREATER THAN MINIMUM WHERE, IN OUR OPINION, THEY ARE NEEDED TO PROTECT THE SAFETY OF THE PUBLIC. ANY VARIANCES TO THE ABOVE STANDARDS ARE CONSISTENT WITH SOUND ENGINEERING PRACTICES AND ARE NOT DETRIMENTAL TO THE PUBLIC SAFETY AND CONVENIENCE.

Dan Barr
Dan Barr, PE
2/14/25
DATE



ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	2/3/25			
SCALE:	AS SHOWN			
DESIGNED BY:	MHA			
DRAWN BY:	MHA			
CHECKED BY:	DEB			

CHESHIRE ROAD
LIFT STATION UPGRADES
CITY OF SUNBURY, DELAWARE COUNTY, OHIO

COVER SHEET

PROJECT NO.	
22000715	
DISCIPLINE	
CIVIL	
SHEET NAME	
G-01	
SHEET	OF
1	8

DISCIPLINE INFORMATION:

IDENTIFIER:	DISCIPLINE:
G	GENERAL
C	CIVIL
E	ELECTRICAL

INDEX EXPLANATION:

INDEX OF SHEETS		
Sheet Number	Sheet Title	SheetName
1	TITLE	G-01
2	SHEET INDEX	G-02
3	GENERAL NOTES	G-03

SHEET NUMBER

SHEET TITLE

DISCIPLINE IDENTIFIER LETTER

SHEET NUMBER ORDER

GENERAL SYMBOLOGY NOTES:

- THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY.
- ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SYMBOLOGY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

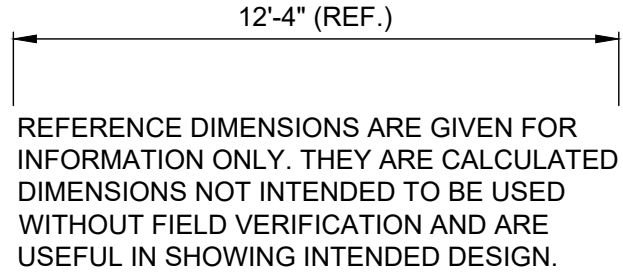
PLAN REVISIONS:

- A REVISION DESCRIPTION
- B REVISION DESCRIPTION

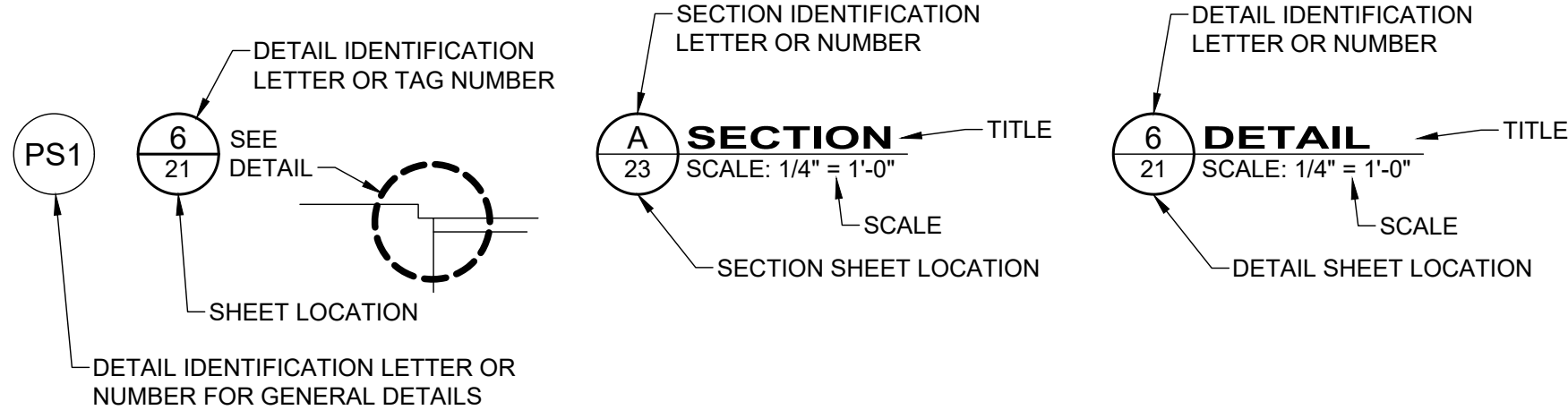
DRAWING CODED NOTE TYPES:

- CT CONTRACTUAL NOTES ARE DEPICTED WITH A HEXAGON, SQUARE, CIRCLE OR TRIANGLE. ALL OTHER EXISTING WRITTEN CALLOUTS SHOWN ON THE REUSED SCANNED PLANS, SECTIONS & DETAILS ARE FOR EXISTING CONDITIONS AND REFERENCE ONLY, MANY OF THOSE NOTES FROM THE SCANNED DRAWINGS PERTAIN TO PREVIOUS WORK DONE.

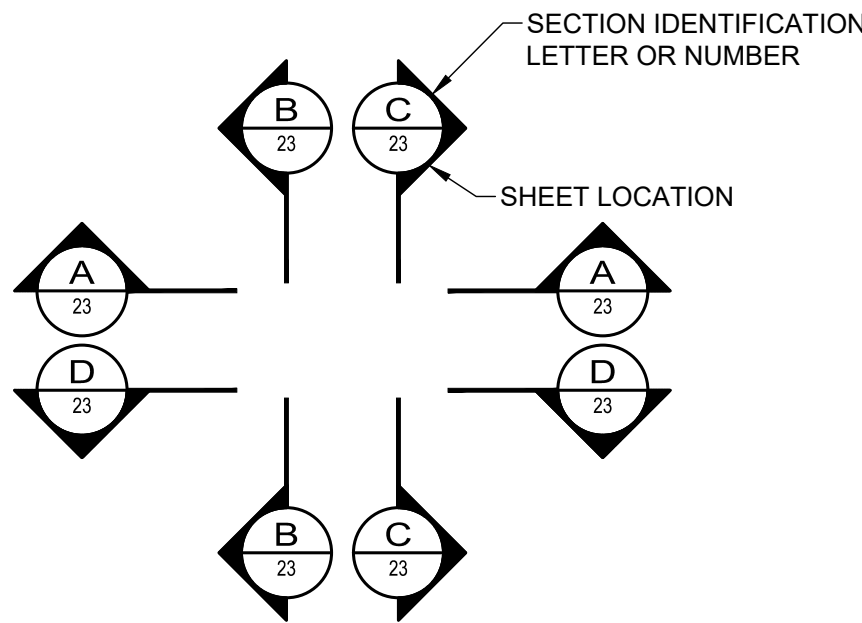
REFERENCE DIMENSION:



DETAIL REFERENCES:



MAJOR SECTION CUT CONVENTIONS:



SITE SYMBOL LEGEND:

EX:	PR:	
		POST, MAILBOX
		POST, SIGN
		POST, SIGN - DOUBLE
		POST, SIGN - DUAL
		GEOTECHNICAL - SOIL BORING
		BUSH
		TREE, DECIDUOUS
		TREE, EVERGREEN
		TREE, STUMP
		NAIL - MAG
		PIN - IRON
		PIPE - IRON
		SPIKE
		GAS METER
		GAS VALVE
		GAS VENT
		POLE - ELECTRIC (POWER)
		POLE - GENERAL
		POLE - GUY
		POLE - GUY ANCHOR
		POLE - LIGHT
		SANITARY CLEAN-OUT
		SANITARY MANHOLE - 48"
		SANITARY VENT
		CATCH BASIN - 2X2
		CURB INLET - 2X3
		STORM CLEAN-OUT
		STORM DRAIN
		STORM MANHOLE - 48"
		WATER HYDRANT, FDC
		WATER HYDRANT, FIRE
		WATER VALVE W/TEXT
		WATER METER
		WATER METER PIT

SITE LINE LEGEND:

EX:		
	RIGHT-OF-WAY (APPROXIMATE NOT SURVEYED)	
	PROPERTY LINE (APPROXIMATE NOT SURVEYED)	
	BUILDING OUTLINES	
	CONTOURS - MAJOR	
	CONTOURS - MINOR	
	DITCH CENTERLINE	
	SLOPE LINE	
	SLOPE - BREAKLINE	
	SLOPE - TOP	
	SLOPE - TOE	
	WATER CENTERLINE	
	WATER EDGE	
	EDGE OF ROAD	
	FENCE - GENERAL	
	FENCE - CHAIN LINK	
	GUIDE RAIL	
	TREE LINE	
	ELECTRIC LINE - OH	
	ELECTRIC LINE - UG	
	GAS LINE	
	GAS SERVICE	
	SANITARY LINE	
	STORM LINE	
	WATER LINE	
	WATER SERVICE	
	CENTERLINE	
	EASEMENT	

PR:

	EASEMENT
	PROPOSED UNDERGROUND ELECTRICAL CONDUIT

GENERAL ABBREVIATIONS:

AR	AIR RELEASE VALVE	KN	KNIFE VALVE
AV	AIR & VACUUM VALVE	MH	MANHOLE
BA	BALL VALVE	MIN	MINIMUM
BFV	BUTTERFLY VALVE	MJ	MECHANICAL JOINT
BK	BACKPRESSURE VALVE	MV	MUD VALVE
BM	BENCH MARK	N	NORTHING
BP	BACKFLOW PREVENTER	OH	OVERHEAD
CB	CATCH BASIN	PR	PROPOSED
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE PIPE
CPP	CORRUGATED PLASTIC PIPE	R/W	RIGHT OF WAY
CV	CHECK VALVE	SAN	SANITARY
DIP	DUCTILE IRON PIPE	SB	SOIL BORING
E	EASTING	SDR	STANDARD DIAMETER RATIO
EG	EXISTING GRADE	SS	STAINLESS STEEL
EL	ELEVATION	STA	STATION
EX	EXISTING	STM	STORM
FG	FINISHED GRADE	TYP	TYPICAL
GV	GATE VALVE	UG	UNDERGROUND
HDPE	HIGH-DENSITY POLYETHYLENE PIPE	VB	VALVE BOX
KG	KNIFE GATE VALVE	WAT	WATER

verdantas

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SCALE:	AS SHOWN			
DESIGNED BY:	MHA			
DRAWN BY:	MHA			
CHECKED BY:	DEB			

CHESHIRE ROAD
LIFT STATION UPGRADES
CITY OF SUNBURY, DELAWARE COUNTY, OHIO

LEGEND AND ABBREVIATIONS

PROJECT NO. 220000715	
DISCIPLINE CIVIL	
SHEET NAME G-02	
SHEET 2	OF 8

BASIS OF DESIGN:

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF THE DUAL SUBMERSIBLE PUMPS AT THE EXISTING CHESHIRE ROAD LIFT STATION (LS) AND CONTROL PANEL. THE EXISTING LIFT STATION IS LOCATED APPROXIMATELY 1,300-FT EAST OF THE INTERSECTION OF CHESHIRE ROAD AND DOMIGAN ROAD, ON THE NORTH SIDE OF CHESHIRE ROAD.

IMMEDIATE AND LONG-TERM SERVICE AREAS:

THE LIFT STATION CURRENTLY SERVICES 109 RESIDENTIAL UNITS, 20 INDUSTRIAL UNITS, 9 COMMERCIAL UNITS AND A MIDDLE SCHOOL LOCATED ALONG CHESHIRE ROAD, W. CHERRY ROAD, AND KINTNER PARKWAY. FUTURE EXPANSION OF THE SERVICE AREA TO THIS LIFT STATION IS PLANNED TO TAKE PLACE WITH THE DEVELOPMENT OF THE KINTNER DEVELOPMENT. THE PROPOSED DUPLEX SUBMERSIBLE PUMPS ARE DESIGNED TO ACCOMMODATE THE FUTURE FLOWS AS WELL AS THE IMMEDIATE FLOWS TO THE AREA.

IMMEDIATE AND FUTURE FLOW DATA:

THE FOLLOWING FLOW DATA IS FOR THE IMMEDIATE CONDITIONS, BASED ON A 350 GPM PEAK DESIGN FLOW :

ADF: 168,000 GPD
PHF: 21,000 GPH
UTILIZING PEAKING FACTOR OF 3.00

THE FOLLOWING FLOW DATA IS FOR THE FUTURE CONDITIONS, BASED ON A 600 GPM PEAK DESIGN FLOW:

ADF: 288,000 GPD
PHF: 36,000 GPH
UTILIZING PEAKING FACTOR OF 3.00.

PUMP DESIGN DATA:

PUMP TYPE:	SUBMERSIBLE EXPLOSION-PROOF
ARRANGEMENT:	DUPLEX
PUMPED FLUID:	RAW SEWAGE
DESIGN CAPACITY, EACH:	600 GPM
T.D.H.:	115 FEET
MAXIMUM NAMEPLATE H.P.:	40 H.P.
POWER REQUIREMENTS:	480 VOLT, 3 PHASE, 60 Hz
DISCHARGE SIZE:	4 INCH

CITY OF SUNBURY GENERAL NOTES:

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE CITY ADMINISTRATION BUILDING (9 E GRANVILLE ST) AT LEAST 15 CALENDAR DAYS BEFORE THE START OF CONSTRUCTION. REPRESENTATIVES OF THE OWNER, DESIGN ENGINEER, DELAWARE COUNTY ENGINEER'S OFFICE, AND THE CONTRACTOR SHALL BE IN ATTENDANCE. A SCHEDULE OF THE SEQUENCE OF EVENTS DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AT LEAST (7) SEVEN DAYS PRIOR TO THIS MEETING.
2. THE CITY OF SUNBURY DETAILED SPECIFICATIONS TOGETHER WITH THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), INCLUDING ALL SUPPLEMENTS THERETO, 2018 EDITION, SHALL GOVERN ALL MATERIAL AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN IN THE PLANS UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE COMPLETELY ACCEPTABLE TO THE CITY OF SUNBURY OFFICIALS. NO WORK SHALL COMMENCE UNTIL ARRANGEMENTS HAVE BEEN MADE WITH THE CITY OF SUNBURY ENGINEER FOR INSPECTION. NECESSARY LINE AND GRADE STAKING TO BE PROVIDED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE CITY OF SUNBURY ENGINEER AT LEAST (7) SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE A VIDEO RECORD OF THE SITE TO THE CITY ENGINEER PRIOR TO THE START OF CONSTRUCTION. EMPHASIS OF THE VIDEO SHOULD BE ON EXISTING DEVELOPED AREAS CONTIGUOUS WITH THE PROJECT WORK AREAS.
6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AN UP-TO-DATE COPY OF THE APPROVED PLANS. FOR ACCEPTANCE OF WORK, THE CITY REQUIRES A SIGNED COMPLETE SET OF ALL APPROVED PLANS.
7. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS FOR THE PROPER EXECUTION OF THE IMPROVEMENTS SHOWN ON THE PLANS.
8. ALL PERTINENT STANDARD CONSTRUCTION DRAWINGS ARE AVAILABLE UPON REQUEST AT THE OFFICE OF THE CITY ENGINEER.
9. APPROVAL OF THESE PLANS SHALL BE IN ACCORDANCE WITH THE CITY OF SUNBURY.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY THE EXTENT OF WORK TO BE PERFORMED PRIOR TO MAKING THEIR BID. THIS IS ESPECIALLY TRUE WITH REGARD TO ANY REMOVAL ITEMS.
11. THE CONTRACTOR AND SUBCONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE CITY OF SUNBURY.
12. THE CONTRACTOR ACKNOWLEDGES THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
13. ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO THE CURB SUBDRAIN OR TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER.
14. INGRESS AND EGRESS SHALL BE MAINTAINED TO PUBLIC AND PRIVATE PROPERTY.
15. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT AT THEIR OWN EXPENSE. SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S ENGINEER AND THE CITY OF SUNBURY.
16. ALL SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES THAT ARE TO REMAIN INTACT WHICH ARE DISTURBED OR DAMAGED DURING WORK UNDER THE CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SANITARY SEWER ITEMS.
17. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO ORIGINAL CONDITION AS NEAR AS PRACTICABLE UPON COMPLETION OF THIS WORK. ANY DAMAGE TO OTHER UTILITIES DURING THIS WORK BY THE SUBCONTRACTOR SHALL BE REPAIRED BY THE APPROPRIATE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
18. CARE SHALL BE EXERCISED WHEN WORKING THE AREA AROUND EXISTING TREES AND SHRUBS. TREES MAY BE REMOVED WITHIN THE PERMANENT AND TEMPORARY EASEMENTS ONLY WITH OWNER APPROVAL. EFFORTS SHALL BE MADE TO PRESERVE TREES 24-INCHES CALIPER OR LARGER. NO TREES SHALL BE DAMAGED OR DISTURBED OUTSIDE OF THE EASEMENTS OR WHERE MARKED ON THE PLANS AS "DO NOT DISTURB".
19. THE COST OF DEWATERING OR ROCK EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR SANITARY PIPE. THE BIDDER SHALL DETERMINE IF ANY DEWATERING OR ROCK EXCAVATION WILL BE REQUIRED AND ADJUST THEIR BIDS ACCORDINGLY.
20. PAVEMENT CUTS FOR UTILITY LINE INSTALLATIONS SHALL BE SUBJECT TO THE BACKFILL REQUIREMENTS OF COC CMS ITEM 912. PAVEMENT SHALL BE PLACED TO MATCH EXISTING SECTION. DEEP TRENCHES MAY NOT BE PARTIALLY FILLED WITH LARGE SIZE AGGREGATE.
21. THE FLOW IN ALL SEWERS, DRAINS, AND SANITARY SEWER ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
22. ALL EARTHWORK OPERATIONS, ESPECIALLY PAVEMENT SUBGRADE CONSTRUCTION, SHALL BE INSPECTED BY A REGISTERED SOILS ENGINEER. ADDITIONALLY ALL FINAL GRADES SHALL BE FIELD CHECKED BY THE CONSTRUCTION MANAGER UPON COMPLETION OF THE CONTRACTOR'S OPERATIONS TO DETERMINE IF THE SITE HAS BEEN CONSTRUCTED TO THE GRADES INDICATED.
23. ALL ITEMS CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME AND SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

CITY OF SUNBURY GENERAL NOTES CONTINUED:

24. EROSION CONTROL MEASURES ARE TO BE INSTALLED PER PLAN OR AS SUCH DIRECTED BY THE CITY AND ARE TO BE MAINTAINED UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED.
25. ALL AREAS IN THE RIGHT-OF-WAY ARE TO BE GRADED AND SEEDED AS SOON AS WORK IN THAT AREA IS COMPLETE.
26. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION AND MAINTENANCE OF A PORTABLE TOILET ON THE SITE DURING ALL PHASES OF CONSTRUCTION.
27. THE CONTRACTOR IS RESPONSIBLE FOR ALL COMPACTION AS WELL AS ASPHALT AND CONCRETE TESTING. TESTING IS TO BE PERFORMED BY A REGISTERED CONTRACTOR AS SPECIFIED BY THE CITY ENGINEER.
28. THE CITY ENGINEER RESERVES THE RIGHT TO DIRECT PROJECT SPECIFIC CHANGES TO ANY CITY CONSTRUCTION NOTE AND SPECIFICATION.
29. NO CONSTRUCTION TRAFFIC IS PERMITTED ON STREETS ACCESSING NEIGHBORHOOD SUBDIVISIONS. NO TRACKED EQUIPMENT IS PERMITTED ON EXISTING STREET PAVEMENT.
30. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL OTHER FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. THE CONTRACTOR AND SUBCONTRACTORS SHALL INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS ASSOCIATED WITH THIS WORK.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS NECESSARY TO PERFORM ALL WORK WITHIN AND/OR ADJACENT TO THE RIGHT-OF-WAY OF ALL ROADS AND HIGHWAYS. ALL FEES, BONDS, INSURANCE, AND OTHER COSTS REQUIRED BY THE OWNER OF SAID ROADS AND HIGHWAYS SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE PRICE BID FOR THE WORK.
32. THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER AND DELAWARE COUNTY ENGINEER WITH A 24 HOUR TELEPHONE NUMBER TO READILY CONTACT A RESPONSIBLE PARTY IN THE CASE OF AN EMERGENCY. THE COST AND/OR DAMAGES INCURRED RELATED TO WORK PERFORMED BY THE CONTRACTOR IN SUCH EMERGENCIES ARE THE CONTRACTORS RESPONSIBILITY AND NOT THE AFFECTED ENTITY.
33. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR BY REASON OF COMPLIANCE WITH ANY OF THE REQUIREMENTS INDICATED IN THE PLANS, BUT PAYMENT SHALL BE DEEMED TO BE INCLUDED AMONG THE SEVERAL ITEMS, AS BID UPON, UNLESS OTHERWISE SPECIFICALLY PROVIDED.
34. IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHT-OF-WAYS INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS OF ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE TOTAL CONTRACT PRICE BID.
35. THE DESIGN SHOWN ON THESE DRAWINGS IS BASED UPON A FIELD SURVEY AND EXISTING RECORDS.
36. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND VIDEO OF THE PROJECT SITE PER THE SPECIFICATIONS. A DIGITAL COPY OF ALL MEDIA SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL
37. ALL CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR. THIS WILL CONSIST OF ALIGNMENT AND GRADE STAKES SET AND MARKED IN THE FIELD. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY REPLACEMENT STAKES NECESSARY, REMOVED OR DESTROYED BY THEIR PERSONNEL OR EQUIPMENT.
38. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND SHALL BRING THE CURRENT SET OF AS-BUILT DRAWINGS TO EACH PROGRESS MEETING FOR REVIEW.
39. THE WORK OF THIS CONTRACT SHALL NOT INTERFERE WITH MAINTAINING CONTINUOUS FLOW IN THE EXISTING SANITARY SEWER, STORM SEWER, WATERLINES, POWER, TELEPHONE, CABLE TV, GAS, OR ANY OTHER SYSTEM THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL UTILITY POLES AND RELOCATE ANY UTILITY THAT IMPEDES CONSTRUCTION. NOTHING SHALL BE DONE BY ANY OTHER CONTRACTOR FOR THIS PROJECT WHICH WILL IN ANY WAY REDUCE THE QUALITY OR QUANTITY LEVEL OF SUCH OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER (1) ONE WEEK PRIOR TO MODIFYING ANY FACILITIES. NO PAYMENT WILL BE MADE FOR ANY UTILITY MAINTENANCE UNLESS SPECIFICALLY NOTED AS A BID ITEM IN THE PROPOSAL. FAILURE TO PROPERLY MAINTAIN UTILITIES WILL RESULT IN THE REDUCTION OF THE PROPOSAL ITEM FOR UTILITY MAINTENANCE.
40. AT ALL UTILITY CROSSINGS, THE BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE UNLESS CONTROLLED DENSITY FILL OR CONCRETE IS SPECIFIED OTHERWISE IN THE DRAWINGS.
41. MANHOLES SHALL BE INSTALLED WITH ADJUSTING RINGS SO THAT THE TOP OF THE CASTING IS AT EXISTING GRADE. THE CASTING SHALL NOT PROTRUDE SO AS TO INTERFERE WITH MOWING.
42. BACKFILL: EARTH WILL NOT BE MOUNDED OVER THE TRENCH IN ANTICIPATION OF SETTLEMENT. THE CONTRACTOR SHALL COMPACT THE TRENCH AND ESTABLISH THE ORIGINAL DITCH GRADE AS WORK PROGRESSES. DRAINAGE MUST BE RESTORED AS QUICKLY AS PRACTICAL. IF EROSION OF THE DITCH LINE CAUSES SILTING OF EXISTING DRAINAGE LINES, THE CONTRACTOR SHALL CLEAN AS NECESSARY. BACKFILL AND CLEANUP OPERATIONS SHALL BE KEPT WITHIN 300 FEET OF PIPE LAYING OPERATIONS DAILY. CARE SHALL BE TAKEN TO INSURE THAT NO DITCH LINE ELEVATIONS ARE RAISED DUE TO EXCESS BACKFILL. COMPACTION IS TO BE CARRIED OUT WITH THE NECESSARY EQUIPMENT TO ACHIEVE THE COMPACTION REQUIREMENT OF ODOT CMS ITEM 304.05. THE CONTRACTOR SHALL MAINTAIN DRIVEWAYS ACCESSIBLE AT ALL TIMES BY USING PLATES OR COMPACTED GRANULAR FILL.
43. ROAD MAINTENANCE AREA: UNLESS PREEEXISTING BEFORE CONSTRUCTION OPERATIONS, THE SURFACE WITHIN A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT SHALL BE MAINTAINED OBSTACLE FREE, BY THE CONTRACTOR, FOR POSITIVE DRAINAGE AND/OR SNOW PLOW/MAINTENANCE OF ROAD PAVEMENT.
44. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
45. DISTURBANCE TO THIS SITE IS COVERED BY OEPA GENERAL PERMIT OHC000006 AND THE NPDES PERMIT.

UTILITY PROVIDERS

WATER
DELCO WATER CO INC.
6658 OLENTANGY RIVER ROAD
DELAWARE, OHIO 43015
(740) 548-7746

SANITARY SEWER
CITY OF SUNBURY
WASTEWATER DEPARTMENT
127 MIDDLEVIEW DRIVE
SUNBURY, OHIO 43074
(740) 965-5380

GAS
COLUMBIA GAS OF OHIO
200 CIVIC CENTER DRIVE
COLUMBUS, OHIO 43215
(800) 440-6111

TELECOMMUNICATIONS
CENTURYLINK
441 WEST BROAD STREET
P.O. BOX 1031
PATASKALA, OHIO 43062
(800) 407-5411

ELECTRIC
AMERICAN ELECTRIC POWER COMPANY
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230
(614) 883-6871

ELECTRIC
CONSOLIDATED ELECTRIC
5255 STATE ROUTE 95
MOUNT GILEAD, OHIO 43338
(419) 947-3055

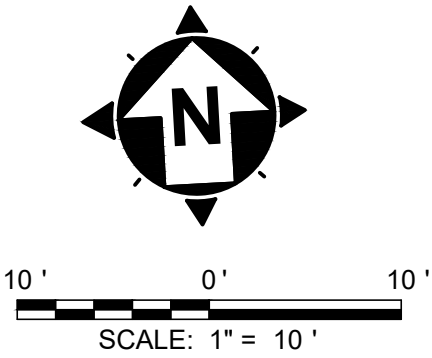
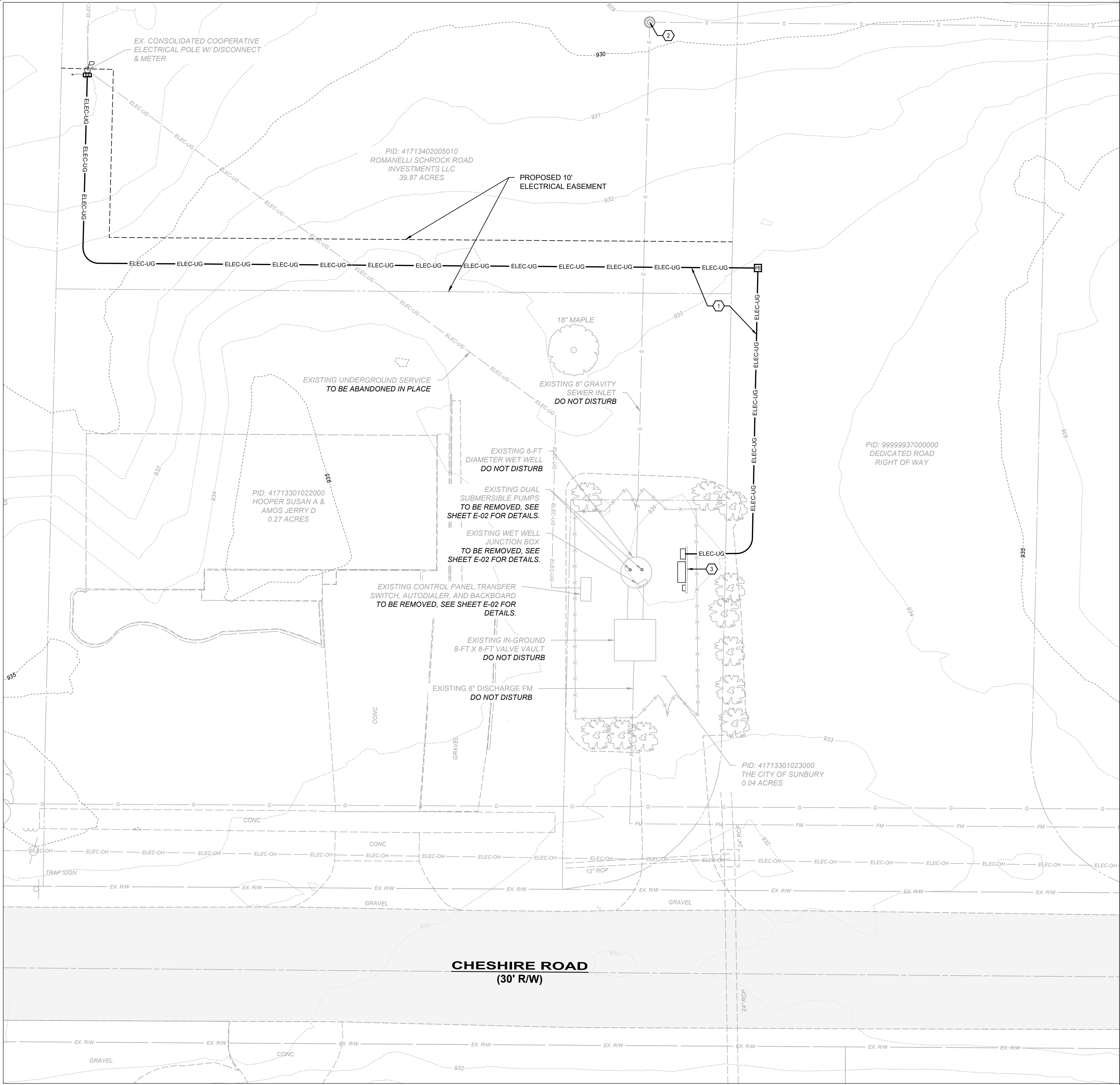


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CHESHIRE ROAD
LIFT STATION UPGRADES
CITY OF SUNBURY, DELAWARE COUNTY, OHIO

GENERAL NOTES

PROJECT NO.	
22000715	
DISCIPLINE	
CIVIL	
SHEET NAME	
G-03	
SHEET	OF
3	8



GENERAL NOTES:

- 1. THE EXISTING CONDITIONS IS BASED ON TOPOGRAPHICAL SURVEY CONDUCTED BY CT CONSULTANTS, INC. DATED APRIL 25, 2024 AND BEST AVAILABLE UTILITY RECORDS FROM THE COUNTY. UTILITIES SHOWN WITHIN ARE BASED ON BEST AVAILABLE RECORDS BUT EXACT LOCATION OF UNDERGROUND SERVICES HAVE NOT BEEN CONFIRMED. THE CONTRACTOR SHALL PERFORM FIELD INVESTIGATION TO CONFIRM THE PRESENCE, LOCATIONS AND DEPTHS OF EXISTING UTILITY SERVICES WITHIN THE WORK AREA PRIOR TO THE START OF CONSTRUCTION.

CODED NOTES:

- 1. PROPOSED UNDERGROUND ELECTRICAL SERVICE LINE TO EXISTING POLE. SEE SHEET E-02 FOR DETAILS.
- 2. BYPASS PUMP FROM UPSTREAM MANHOLE TO EXISTING QUICK-CONNECT HOSE IN VALVE VAULT. SEE PHOTO BELOW. THE EXISTING LIFT STATION CAPACITY IS 350 GPM. THE EXISTING 8" FORCE MAIN IS APPROXIMATELY 4,500 LINEAR FEET. THE APPROXIMATE STATIC HEAD IS 48'. BYPASS AS NEEDED TO COMPLETE THE WORK.
- 3. PROPOSED ELECTRICAL EQUIPMENT BACKBOARD. SEE SHEETS E-02 AND E-03 FOR DETAILS.



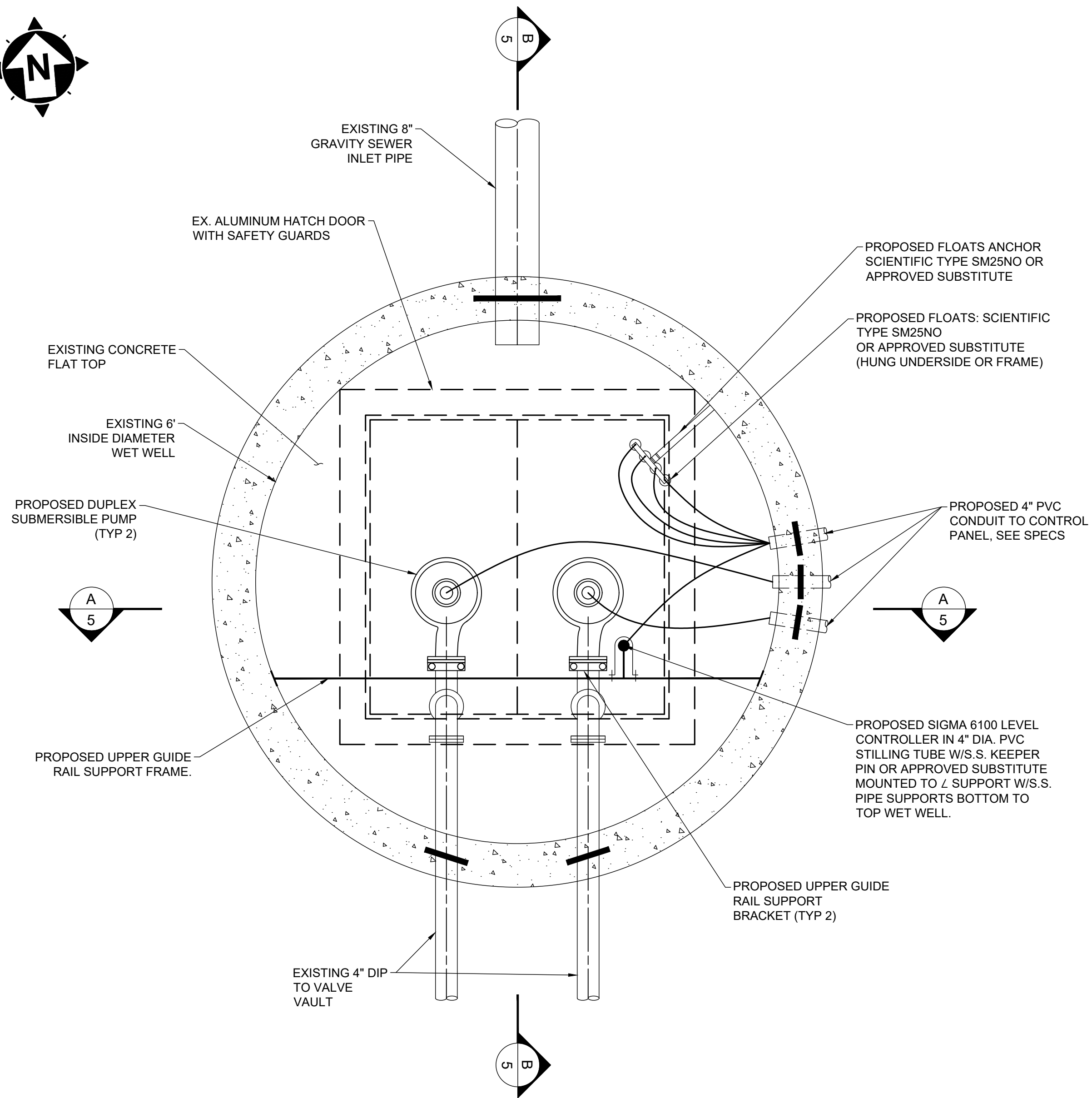
EXISTING 8-FT X 8-FT VALVE VAULT AND QUICK CONNECT HOSE



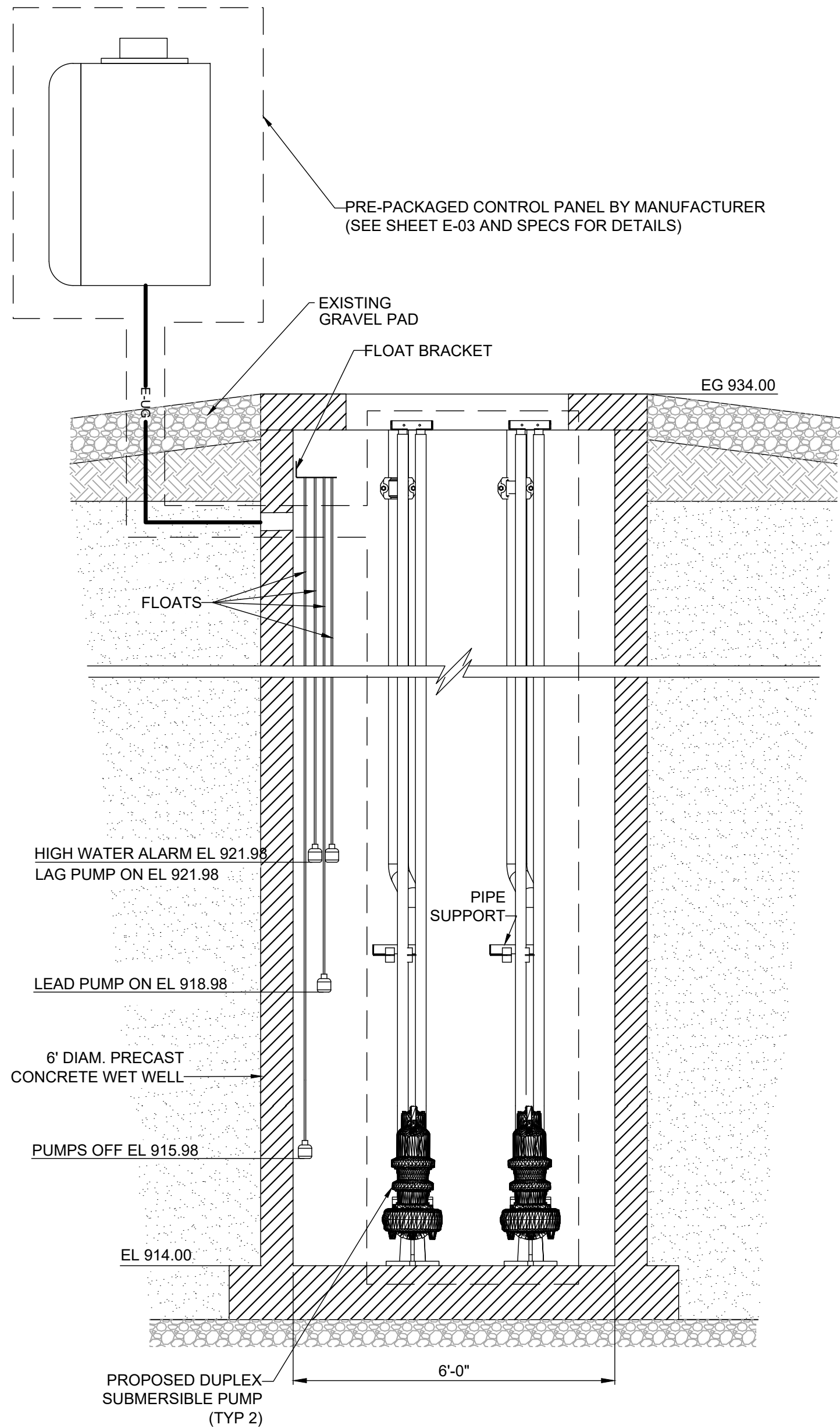
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CHESHIRE ROAD
LIFT STATION UPGRADES
CITY OF SUNBURY, DELAWARE COUNTY, OHIO
LIFT STATION SITE PLAN

PROJECT NO. 22000715	
DISCIPLINE CIVIL	
SHEET NAME C-01	
SHEET 4	OF 8



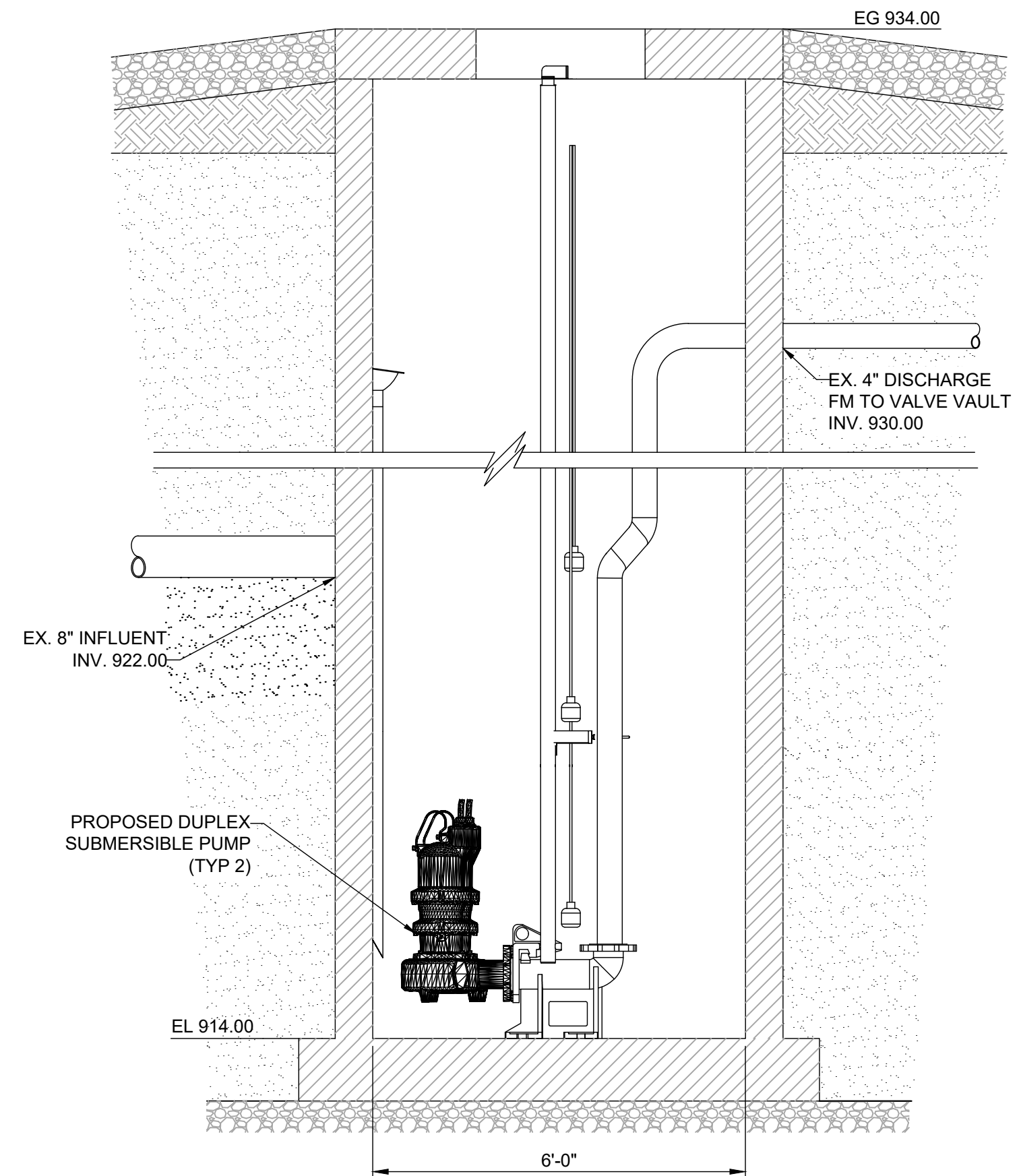
EXISTING LIFT STATION - PLAN VIEW
SCALE: 1" = 1'



SECTION A-A
NOT TO SCALE

NOTES:

1. ALL PIPING, PUMP RAILS, PUMP BASES AND FLOATS IN WET WELL SHALL BE REPLACED.
2. PUMPS ARE TO BE DUAL ALTERNATING WITH CYCLIC OPERATION WITH VARIABLE FREQUENCY DRIVES.



SECTION B-B
NOT TO SCALE

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PROJECT NO. 22000715	
DISCIPLINE CIVIL	
SHEET NAME C-02	
SHEET 5	OF 8

ELECTRICAL SYMBOLS - PLAN:

	HOME RUN TO PANEL
	MOTOR
	MOTOR CONTROLLER
	FUSIBLE SAFETY SWITCH
	NON-FUSIBLE DISCONNECT SWITCH
	SIMPLEX RECEPTACLE, EXPLOSION PROOF
	DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	DATA PORT, RJ45
	SPECIAL RECEPTACLE, NEMA TYPE NOTED
	SINGLE-POLE SWITCH, "3" INDICATES 3-WAY, "OS" INDICATES OCCUPANCY SENSING
	DRY-TYPE TRANSFORMER
	PUSHBUTTON STATION
	LOUVER OPERATOR
	JUNCTION BOX
	SOLENOID VALVE
	LIMIT SWITCH
	FLOW: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	LEVEL: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	PRESSURE: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	TEMPERATURE: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	OTHER SENSOR / INDICATING TRANSMITTER AS NOTED
	HAZARDOUS AREA LIGHT FIXTURE
	OUTDOOR CANOPY LIGHT FIXTURE
	EXTERIOR WALL-PACK LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE
	LINEAR LED LIGHT FIXTURE
	EXIT SIGN
	EMERGENCY REMOTE HEAD
	EMERGENCY WALL-PACK
	FIRE ALARM PULL STATION, STROBE, HORN-STROBE
	FIRE ALARM AREA SMOKE DETECTOR

ELECTRIC SYMBOLS - UTILITIES:

EX:	PR:
	AIR CONDITIONING UNIT
	ELECTRIC CONTROL BOX
	ELECTRIC JUNCTION BOX
	ELECTRIC PULL BOX
	ELECTRIC RISER BOX
	ELECTRIC VAULT BOX
	ELECTRIC LIGHT - GROUND
	ELECTRIC LIGHT - POST
	ELECTRIC MARKER POST
	ELECTRIC METER
	ELECTRIC MANHOLE - 48"
	ELECTRIC MANHOLE - 48" - ADJUST
	ELECTRIC MANHOLE - LID
	ELECTRIC PAINT MARK
	ELECTRIC PEDESTAL
	ELECTRIC TRANSFORMER

SINGLE LINE, ELEMENTARY, & INTERCONNECTION DIAGRAMS (ONLY) SYMBOLOGY:

	DISCONNECT SWITCH - AMP RATING		N.O. LIMIT SWITCH		CONTACT - NORMALLY OPEN
	FUSE - AMP RATING		N.O. FLOW SWITCH		CONTACT - NORMALLY CLOSED
	CIRCUIT BREAKER - AMP RATING		N.O. LEVEL SWITCH		SOLENOID COIL
	TRANSFORMER		N.O. PRESSURE SWITCH		PILOT LIGHT - PUSH TO TEST (COLOR)
	MOTOR W / HORSEPOWER INDICATED		N.O. TEMPERATURE SWITCH		GROUND
	AMMETER		N.O. TIME DELAY AFTER ENERGIZATION		CAPACITOR
	VOLT METER		N.C. TIME DELAY AFTER ENERGIZATION		2 POSITION SELECTOR SWITCH
	POWER FACTOR METER		N.C. TIME DELAY AFTER DE-ENERGIZATION		3 POSITION SELECTOR SWITCH
	GROUND FAULT RELAY		N.O. TIME DELAY AFTER DE-ENERGIZATION		EQUIPMENT FIELD TERMINAL
	RELAY COIL		N.O. SWITCH (GENERAL)		LOCAL PANEL / BLDG WIRING
	TIMING RELAY COIL		START PUSHBUTTON NORMALLY OPEN		EXTERNAL / FIELD WIRING
	MOTOR STARTER COIL		STOP PUSHBUTTON NORMALLY CLOSED		
	ELAPSED TIME TOTALIZER				
	GROUNDING BUS				
	TRANSIENT VOLTAGE SURGE SUPPRESSOR				

ABBREVIATIONS:

x-CSC	x-CONDUCTOR SHIELDED CABLE	IAW	IN ACCORDANCE WITH
A	AMPS	ICP	INSTRUMENTATION & CONTROL PANEL
AF	AMPERE FRAME	IPP	INSTRUMENT POWER PANEL
AI	ANALOG INPUT (PLC)	JB	JUNCTION BOX
AL	ALUMINUM	JBC	JUNCTION BOX-CONTROL
AM	AMMETER	JBM	JUNCTION BOX-METERING
AO	ANALOG OUTPUT (PLC)	JBP	JUNCTION BOX-POWER
AP	ALARM PANEL	KCM	KILO (1000) CIRCULAR MILL
AT	AMPERE TRIP	kVA	KILOVOLT AMPERES
AWG	AMERICAN WIRE GAUGE	KVAR	KILOVOLT AMPERES-REACTIVE
C	CONDUIT	kW	KILOWATT
CAP	CAPACITOR	LA	LIGHTING ARRESTOR
CB	CIRCUIT BREAKER	LGT	LIGHT
CJB	CONTROL JUNCTION BOX	LOR	LOCAL/OFF/REMOTE SELECTOR SWITCH
CJ	CONTROL PANEL	LP	LIGHTING PANEL
CPT	CONTROL POWER TRANSFORMER	LS	LEVEL SWITCH
CR	CORROSION RESISTANT	MCC	MOTOR CONTROL CENTER
CS	CONTROL STATION	MCP	MOTOR CIRCUIT PROTECTOR
CT	CURRENT TRANSFORMER	MDP	MAIN DISTRIBUTION PANEL
CU	COPPER	MJB	METERING JUNCTION BOX
DB	DUCT BANK	NEC	NATIONAL ELECTRICAL CODE
DI	DIGITAL INPUT (PLC)	NEMA	NATIONAL ELECTRICAL MFR ASSOC.
DO	DIGITAL OUTPUT (PLC)	NEU	NEUTRAL
EAG	ELECTRICALLY ACTIVATED GATE	NFDS	NON-FUSED DISCONNECT SWITCH
EAV	ELECTRICALLY ACTIVATED VALVE	OCSS	OPEN/CLOSE SELECTOR SWITCH
EF	EXHAUST FAN	OL	OVERLOAD
ESPB	EMERGENCY STOP PUSHBUTTON (MAINTAINED)	OOSS	ON/OFF SELECTOR SWITCH
ETT	ELAPSED TIME TOTALIZER	OS	OCCUPANCY SENSING
EWD	ELEMENTARY WIRING DIAGRAM	OT	OVER TORQUE SWITCH
FDS	FUSED DISCONNECT SWITCH	P	POLE
FLA	FULL LOAD AMPERES	PB	PUSHBUTTON
FS	FLOW SWITCH	PBC	PULLBOX-CONTROL
FVC	FULL VOLTAGE CONTACTOR	PBM	PULLBOX-METERING
FVNR-1	FULL VOLTAGE NON-REVERSING STARTER SIZE 1	PBP	PULLBOX-POWER
GFI	GROUND FAULT INTERRUPTER	PC	PHOTO CONTROL
GND	GROUND	PF	POWER FACTOR
GFR	GROUND FAULT RELAY	PH	PHASE
HOA	HAND/OFF/AUTO SELECTOR SWITCH	PLC	PROGRAMMABLE LOGIC CONTROLLER
HP	HORSEPOWER	PJB	POWER JUNCTION BOX
HT	HIGH TORQUE SWITCH	PP	POWER PANEL
HTR	HEATER	PRI	PRIMARY
HZ	HERTZ	PS	PRESSURE SWITCH
		PT	POTENTIAL TRANSFORMER

ELECTRICAL LINE SYMBOLOGY:

PROPOSED:

	CONDUIT AND WIRE RUN EXPOSED
	CONDUIT AND WIRE BELOW GRADE
	ELECTRIC LINE
	ELECTRIC LINE - OVERHEAD
	ELECTRIC LINE - UNDERGROUND
	ELEC SERVICE
	ELEC SERVICE - OVERHEAD
	ELEC SERVICE - UNDERGROUND
	ELEC LIGHTING - OVERHEAD
	ELEC LIGHTING - UNDERGROUND

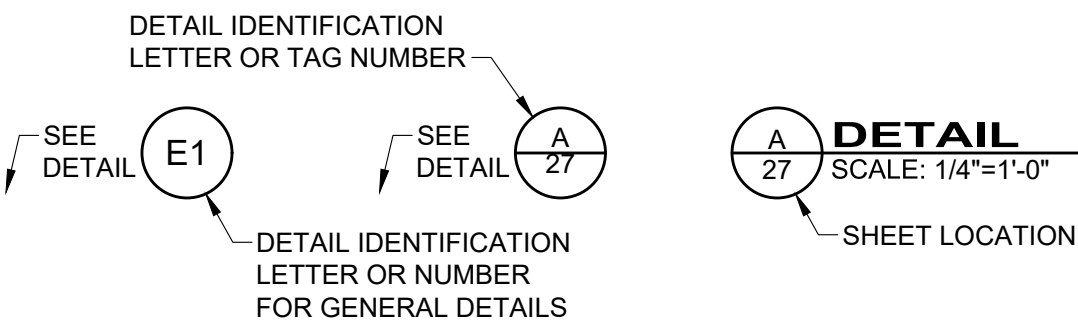
EXISTING:

	ELECTRIC LINE
	ELECTRIC LINE - ABANDONED
	ELECTRIC LINE - OVERHEAD
	ELECTRIC LINE - UNDERGROUND
	ELECTRIC SERVICE
	ELECTRIC SERVICE - OVERHEAD
	ELECTRIC SERVICE - UNDERGROUND
	ELECTRIC LIGHTING - OVERHEAD
	ELECTRIC LIGHTING - UNDERGROUND
	ELECTRIC DUCT

ELECTRICAL CODED NOTES:

	NEW WORK - NOTE 1		DEMOLITION - NOTE 1		REVISION - NOTE 1
	NEW WORK - NOTE 2		DEMOLITION - NOTE 2		REVISION - NOTE 2
	NEW WORK - NOTE 3		DEMOLITION - NOTE 3		REVISION - NOTE 3

ELECTRICAL DETAIL REFERENCE:



ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT AND MATERIALS WILL BE SELECTED AND INSTALLED IN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL FIRE CODES, INCLUDING BUT NOT LIMITED TO ALL PERTINENT NFPA REGULATIONS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH THESE CODES.
- DO NOT INSTALL DEVICES SCALED FROM THESE DRAWINGS. ALL DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE APPROVED CONDUIT/DEVICE LAYOUT DRAWINGS AND WITH DIMENSIONS TAKEN IN THE FIELD.
- ELECTRICIAN TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- NO DUCTWORK OR PIPING TO BE RUN ABOVE ELECTRICAL PANELS OR THROUGH ELECTRICAL EQUIPMENT ROOMS. ELECTRICIAN SHALL COORDINATE WITH ALL TRADES FOR EQUIPMENT LAYOUTS PRIOR TO ROUGH-IN OF ALL SYSTEMS.
- MANUFACTURERS AND CATALOG NUMBERS SHOWN IN THE LIGHT FIXTURE SCHEDULE ARE PROVIDED TO INDICATE DESIRED LIGHT FIXTURE CHARACTERISTICS. IT IS THE INTENT OF THE DOCUMENTS TO ALLOW ALTERNATE MANUFACTURERS TO PROVIDE LIGHTING PRODUCTS FOR THE PROJECT, AS LONG AS PROPOSED ALTERNATES PROVIDE THE SAME GENERAL DESIGN AND LIGHTING CHARACTERISTICS AS NOTED IN THE LIGHT FIXTURE DESCRIPTION.
- ELECTRICIAN TO CONFIRM LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CHARACTERISTICS OF PROCESS EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO INSTALLING ROUGH-INS AS SHOWN ON THE ELECTRICAL PLANS. ALL SHOP DRAWING REQUIREMENTS WILL BE CONSIDERED AS THE MEANS AND METHODS OF INSTALLATION.
- THIS PROJECT INVOLVES WORK AT AN INDUSTRIAL FACILITY AND THE CONTRACTOR IS EXPECTED TO PROVIDE CRAFTSMANSHIP REFLECTING THE NATURE OF THE FACILITY. CONDUITS IN PROCESS AREAS ARE TO BE SURFACE MOUNTED RIGID GALVANIZED STEEL (RGS), IN CLASSIFIED AREAS SEAL ALL CONDUITS TO RESTRICT THE PASSAGE OF GASSES AND VAPORS, AND ARRANGE SEALING FITTING DRAINS IN CONDUIT SYSTEMS TO PREVENT ACCUMULATION OF CONDENSATE ABOVE SEALS. ALL CONDUITS ENTERING OR LEAVING A MOTOR CONTROL CENTER, CONTROL PANEL, VALVE ACTUATOR, INSTRUMENT, A BUILDING, OR A PANELBOARD SHALL BE MADE WATERTIGHT USING AN INFLATABLE SEALED BLADDER DUCT SEALING SYSTEM, RAYCHEM 'RAYFLATE' DUCT SEALING SYSTEM RDSS OR APPROVED EQUAL. ALL HARDWARE IS TO BE STAINLESS STEEL UNLESS OTHERWISE DIRECTED.

ALL ENCLOSURES ARE TO BE RATED AS FOLLOWS (UON):

 - OUTDOORS: NEMA 4X (STAINLESS STEEL)
 - CLASSIFIED AREAS: NEMA 7
 - INDOORS (CORROSIVE AREAS): NEMA 4X (STAINLESS STEEL)
 - INDOORS (CONTROLLED ENVIRONMENT) NEMA 12
- ELECTRICIAN SHALL REVIEW ALL OTHER TRADES' CONSTRUCTION DOCUMENTS AND/OR COORDINATE WITH OTHER TRADES AND VERIFY IF THERE ARE ANY ADDITIONAL ELECTRICAL REQUIREMENTS NOT SHOWN ON ELECTRICAL DRAWINGS. COST FOR WORK SHOWN ON OTHER TRADES' DRAWINGS SHALL BE INCLUDED IN BASE BID. ALL FIELD WIRING AND TERMINATIONS OF PROCESS EQUIPMENT AND INSTRUMENTATION AND CONTROLS SHALL BE THE RESPONSIBILITY OF THE ELECTRICIAN. ALL CABLES AND WIRES PROVIDED BY VENDORS SHALL BE INSTALLED AND TERMINATED BY THE ELECTRICIAN. WIRE ALL MISCELLANEOUS POWER AND CONTROLS AS REQUIRED TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
- A 4-20mA SIGNAL IS AN ANALOG SIGNAL USED TO TRANSMIT DATA (LEVEL, FLOW, ETC.) FOR PROCESS CONTROLS. THE ELECTRICIAN SHALL PROVIDE, INSTALL, AND TERMINATE SHIELDED TWISTED PAIRS (STP) WIRING IN RIGID GALVANIZED STEEL CONDUIT (RGS). RGS IS USED IN AN ATTEMPT TO REDUCE THE DISTORTION AFFECT FROM EMI AND RFI. BELOW GRADE CONDUITS SHALL BE PVC SCHED-40. PARALLEL RUNS OF DATA CONDUITS AND POWER CONDUITS SHALL BE SEPARATED BY 2 FEET. THE STP SHIELD SHALL BE GROUNDED AT THE CONTROL PANEL ONLY (DO NOT GROUND AT BOTH ENDS).
- THE ELECTRICIAN SHALL BE RESPONSIBLE FOR LAYOUT AND COORDINATION OF OPENINGS AND CHASES AND SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL THEIR WORK. ALL CONCRETE HOUSE KEEPING PADS SHALL BE FRAMED AND POURED BY THE ELECTRICIAN. PADS SHALL HAVE A 45 DEGREE, 1" CHAMFER AROUND UPPER EDGE.
- THE ELECTRICIAN SHALL INSTALL & DISTRIBUTE TEMPORARY POWER SERVICE FOR THE DURATION OF THIS PROJECT AS DEFINED IN DIVISION 1 SPECIFICATIONS. ALL COSTS ASSOCIATED WITH THE INSTALLATION, DISTRIBUTION AND MAINTENANCE OF THE TEMPORARY POWER IS THE RESPONSIBILITY OF THE ELECTRICIAN. THERE SHALL BE 480/277V, 3PH, 4W; 208/120V, 3PH, 4W; AND 120/240V, 1PH, 3W POWER AVAILABLE AT ALL LOCATIONS OF CONSTRUCTION AS DIRECTED IN FIELD AND AS SPECIFIED. ALL TEMPORARY EQUIPMENT, CONDUITS & CONDUCTORS SHALL BE COMPLETELY REMOVED AT COMPLETION OF PROJECT.
- ALL ELECTRICAL EQUIPMENT, DEVICES, LIGHTING FIXTURES, CONDUIT, AND WIRING SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS CLEARLY CALLED OUT AS EXISTING. ALL EXISTING ELECTRICAL EQUIPMENT THAT IS CALLED OUT TO BE REUSED SHALL BE INSPECTED IN THE FIELD BY THE ELECTRICIAN AND THE CONSTRUCTION MANAGER TO DETERMINE ITS CONDITION PRIOR TO STARTING ANY WORK. PROVIDE DOCUMENTATION TO OWNER INDICATING CONDITION OF THE EXISTING EQUIPMENT, AND REUSE EXISTING EQUIPMENT ONLY IF ALL PARTIES AGREE THE CONDITION IS ACCEPTABLE. ALL EXISTING EQUIPMENT DETERMINED TO BE UNUSABLE SHALL BE REPLACED WITH LIKE KIND AS DIRECTED BY THE OWNER. ANY OF THE OWNERS EQUIPMENT DETERMINED TO BE REUSED THAT IS DAMAGED BY ANY CONTRACTOR DURING SWITCHOVER SHALL BE REPLACED BY THAT CONTRACTOR. ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER (NOT THE CONTRACTOR) AND SHALL BE TREATED ACCORDINGLY.
- THE ELECTRICIAN SHALL BE HELD RESPONSIBLE TO ENSURE ALL CONTROLLERS TO BE INSTALLED ARE CAPABLE OF LOCKOUT / TAGOUT PRIOR TO INSTALLATION.
- CONFORM TO THE NEC, OSHA, FIRE MARSHAL, BUILDING DEPARTMENT AND OTHER APPLICABLE CODES AND REGULATIONS. OBTAIN PERMITS, PAY ALL FEES, AND ARRANGE FOR REQUIRED INSPECTIONS.
- ALL LIGHTING AND RECEPTACLE WIRING TO BE #12 XHHW WITH EQUIPMENT GROUND IN 3/4" C UNLESS OTHERWISE NOTED.
- DO NOT MOUNT ANY LIGHT FIXTURE DIRECTLY OVER PIPING OR EQUIPMENT THAT WILL INTERFERE WITH NORMAL LIGHTING DISTRIBUTION.
- SIZE JUNCTION BOXES AS REQUIRED PER NEC. PROVIDE BARRIER TYPE TERMINAL STRIPS, AND ALL WIRING TO BE IN CONDUIT.
- SIZE PULL BOXES (PB) AS REQUIRED PER NEC.
- PROVIDE SEPARATE PB'S FOR CONTROL AND POWER.
- MOTOR OVERLOAD SETTING SHALL BE FIELD SELECTED PER MOTOR NAME PLATE CURRENT AND INSTALLED ACCORDINGLY.
- MOUNT LOCAL CONTROLS AND SERVICE DISCONNECTS ON WALL NEAREST EQUIPMENT WHERE POSSIBLE. (MAXIMUM 60" ABOVE FINISHED FLOOR OR FINAL GRADE, MAXIMUM LATERAL DISTANCE FROM WALL TO EQUIPMENT - 10 FEET).
- ALL FEEDERS RUN BELOW GRADE SHALL BE RUN IN PVC CONDUIT AT MINIMUM 3'-0" BELOW FINISHED GRADE. TRANSITION TO ABOVE GRADE SHALL BE MADE USING FACTORY PVC COATED RIGID STEEL CONDUIT SWEEPS.

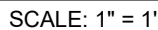


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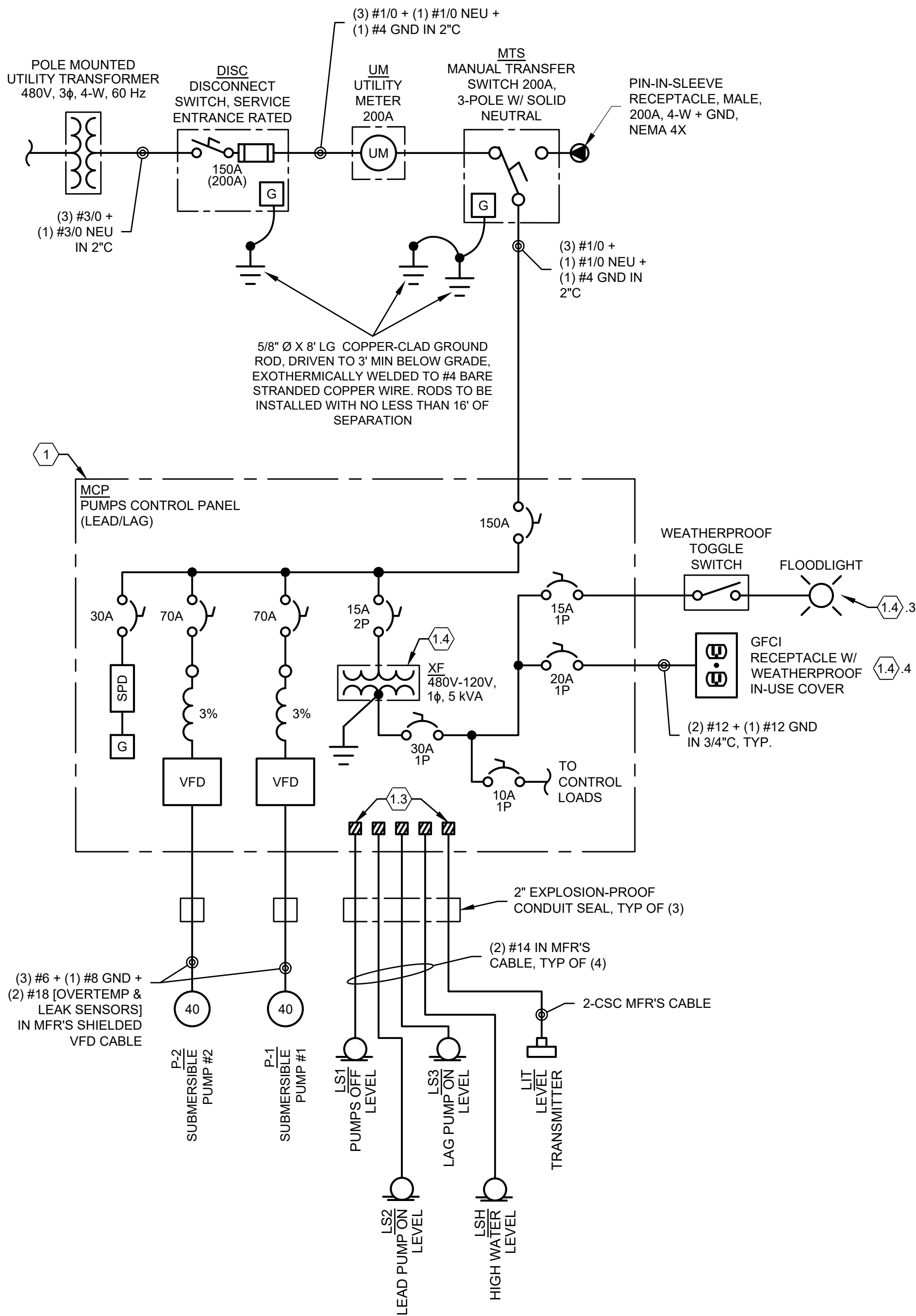
CHESHIRE ROAD
LIFT STATION UPGRADES
CITY OF SUNBURY, DELAWARE COUNTY, OHIO

ELECTRICAL LEGEND &
GENERAL NOTES

PROJECT NO.	22000715
DISCIPLINE	CIVIL
SHEET NAME	E-01
SHEET	OF
6	8



PROJECT NO.	
22000715	
DISCIPLINE	
CIVIL	
SHEET NAME	
E-02	
SHEET	OF
7	8



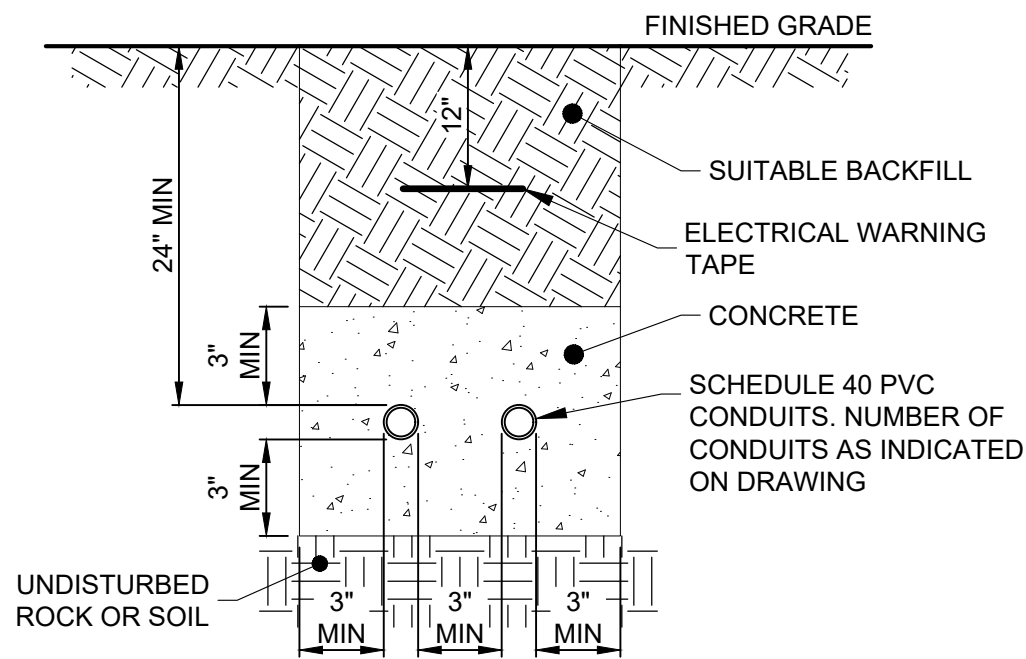
CODED NOTES:

- DUPLEX PUMP CONTROL PANEL SHALL BE PROVIDED BY THE PUMP SUPPLIER AND INSTALLED BY THE CONTRACTOR. PUMPS TO OPERATE IN A LEAD/LAG MODE WITH AUTOMATIC ALTERNATION FROM CONTROLLER. PANEL TO INCLUDE
 - PLC & TOUCHSCREEN HMI FOR LOCAL CONTROL
 - SENSAPHONE 1800, OR APPROVED EQUAL, FOR REMOTE MONITORING OF PUMP STATION STATUS INCLUDING:
 - PUMP 1 RUNNING
 - PUMP 2 RUNNING
 - WET WELL LEVEL
 - ALARMS:
 - HIGH WATER
 - ON GENERATOR POWER
 - GENERATOR FAULT
 - PUMP OVERTEMP
 - PUMP SEAL FAIL
 - INTRINSICALLY SAFE TERMINALS FOR LEVEL AND THERMAL SWITCHES AS WELL AS LEVEL TRANSMITTER.
 - CONTROL TRANSFORMER WITH PRIMARY & SECONDARY OVERCURRENT PROTECTION TO PROVIDE POWER FOR THE FOLLOWING CIRCUITS:
 - PLC
 - DC POWER SUPPLY
 - LED FLOOD LIGHT
 - GFCI RECEPTACLE
 - ALARM DIALER

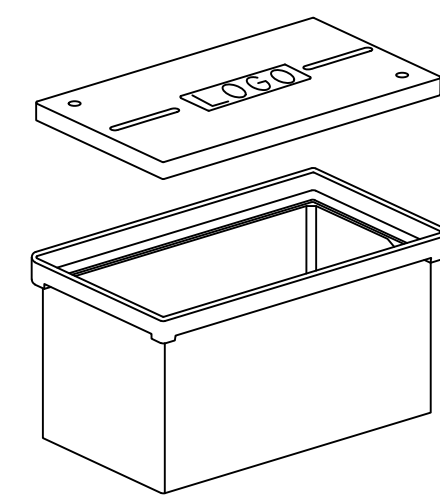
GENERAL NOTES:

- ALL REFERENCES TO "UTILITY" TO DESIGNATE CONSOLIDATED COOPERATIVE.
- ALL ENCLOSURES TO BE NEMA 4X SS, UNO.
- ALL OVERCURRENT PROTECTION DEVICES TO BE 3-POLE, UNO.

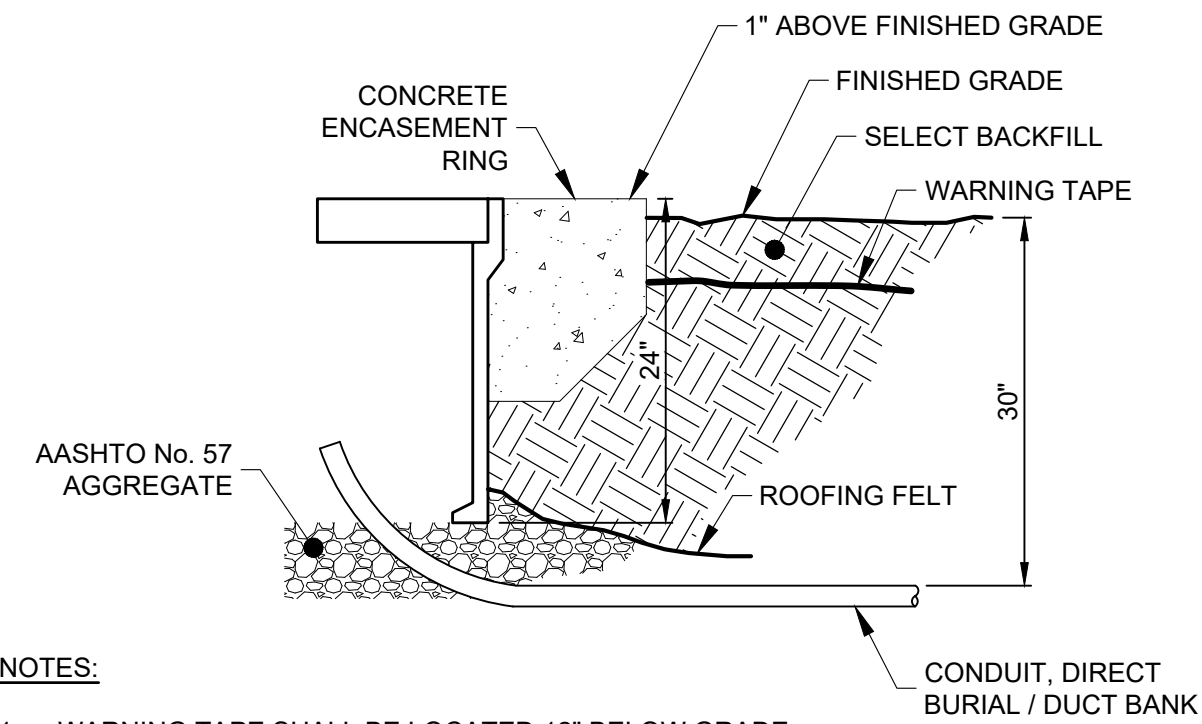
PR. CONNECTION DIAGRAM



ELECTRICAL TRENCH DETAIL
NOT TO SCALE



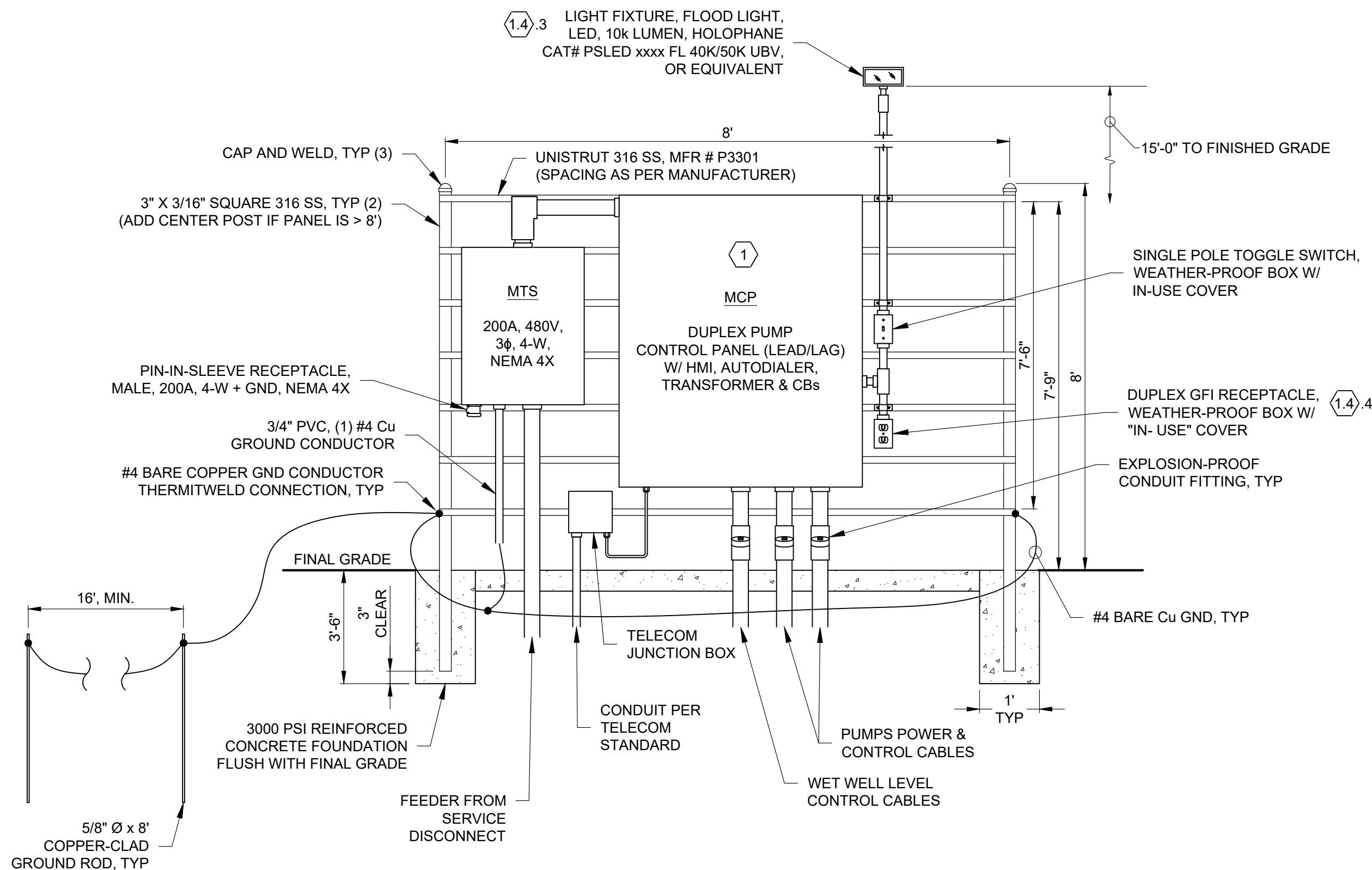
TYPICAL HANDHOLE
NOT TO SCALE



NOTES:

- WARNING TAPE SHALL BE LOCATED 12" BELOW GRADE.
- AN AASHTO No. 57 AGGREGATE DRAINAGE BED IS REQUIRED UNDER ALL ELECTRICAL HANDHOLES. THE DRAINAGE BED SHALL BE EQUAL TO THE HANDHOLE BASE DIMENSIONS PLUS 12" DEPTH.
- THE ENCASEMENT RING SHALL BE 1" ABOVE FINISHED GRADE.
- THE HANDHOLE COVER SHALL BE GRAY IN COLOR AND EMBOSSED WITH "ELECTRIC" OR "COMMUNICATIONS". THE COVER SHALL BE HEAVY DUTY TYPE WITH A DESIGN LOAD EQUAL OR EXCEEDING 15,000 LBS OVER A 10" SQUARE.

**HANDHOLE (TYP) FOR
NON-ROADWAY APPLICATIONS**
NOT TO SCALE



ELECTRICAL EQUIPMENT BACKBOARD DETAILS
NOT TO SCALE

NOTES:

- ADJUST EQUIPMENT PLACEMENT ON THE RACK TO MATCH CONDUIT STUB UPS AS SHOWN ON THE SITE PLAN.
- ALL DIMENSIONS SHOWN ARE APPROXIMATE. COORDINATE RACK DIMENSIONS AND LAYOUT WITH EQUIPMENT SHOP DRAWINGS. SUBMIT FINAL DIMENSIONED LAYOUT TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- SEAL ALL UNDERGROUND CONDUIT AT ENTRY INTO ENCLOSURES.

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