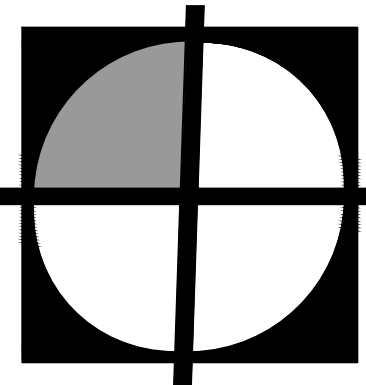
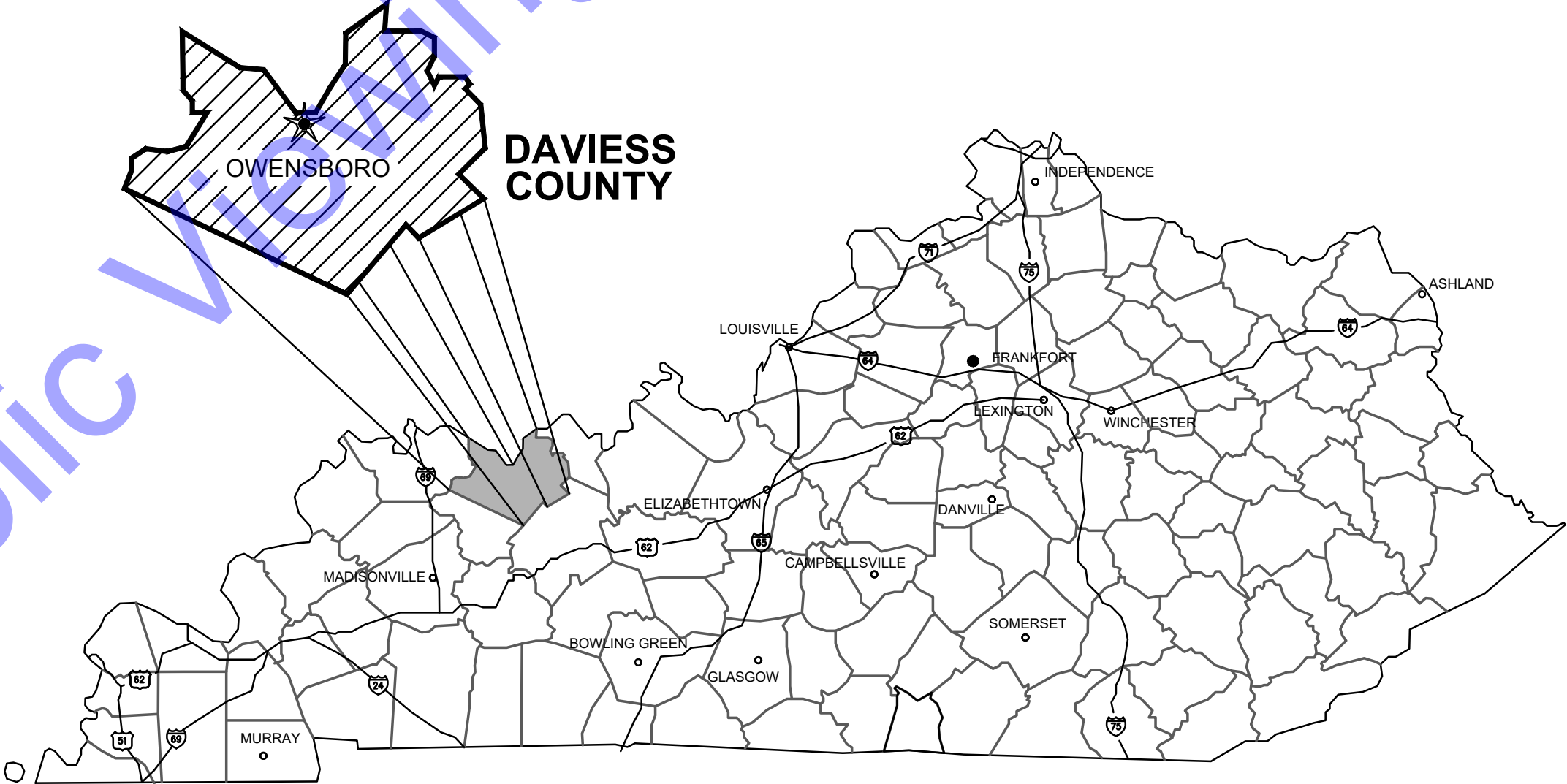


REGIONAL WATER RESOURCE AGENCY

MISCELLANEOUS PUMP STATION INSULATION REPAIRS - HAIL STORM 2025 CONTRACT #2025-32 MAY 2025


REGIONAL WATER RESOURCE AGENCY BOARD OF DIRECTORS

TIM ALLEN _____ BOARD CHAIRMAN
SHAWN PATTERSON _____ BOARD VICE-PRESIDENT
ED CECIL _____ BOARD SECRETARY
HARRY ROBERTS, JR. _____ BOARD MEMBER
TIM KLINE _____ BOARD MEMBER
BILL WEIKEL _____ BOARD MEMBER
JOHN CUMMINS _____ BOARD MEMBER
TERRA W. KNIGHT _____ BOARD ATTORNEY

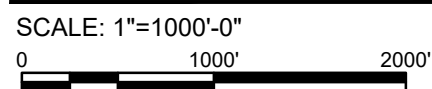


COMMONWEALTH
ENGINEERS, INC.
A wealth of resources to master a common goal.

QA/QC BY : TOBY CHURCH
DATE : 5/1/2025

CERTIFIED BY : 
DATE : 5/1/2025
TRAVIS S. HARPER, P.E.
KENTUCKY P.E. No. 37687





GENERAL ABBREVIATIONS

AB	AIR	ANCHOR BOLT	G	GAS	SAN	SANITARY
AFF	ABOVE FINISH FLOOR		GALV	GALVANIZED	SAS	SANITARY SEWER
ALT	ALTERNATE		GEN	GENERAL	SCH	SCHEDULE
ALUM	ALUMINUM		GRD	GROUND OR GRADE	SECT	SECTION
@	AT		HB	HOSE BIBB	SF	SQUARE FEET
APP.	APPARENT		HORIZ	HORIZONTAL	SHT	SHEET
ATT	AERATION TANK TRANSFER		HP	HORSEPOWER	SL	SAMPLE LINE
AUTO	AUTOMATIC		HW	HOT WATER	SOS	STORM SEWER
AVG	AVERAGE				SP	STOP PLATE
					SQ	SQUARE
B	BAFFLE		ID	INSIDE DIAMETER	STD	STANDARD
BLDG	BUILDING		IJ	ISOLATION JOINT	S STL, SS	STAINLESS STEEL
BM	BENCH MARK		INV	INVERT	STL	STEEL
BOT	BOTTOM		IP	IRON PIN	SUP	SUPERNATANT
BRG	BEARING				SY	SQUARE YARD
			LAV	LAVATORY		
CFM	CUBIC FEET PER MINUTE		LB	POUND	TOS	TOP OF SLAB
CL	CENTERLINE		LL	LIVE LOAD	TOW	TOP OF WALL
CO	CLEAN OUT		LLV	LONG LEG VERTICAL	TW	TERTIARY WATER
COL/C	COLUMN		LTG	LIGHTING	TYP	TYPICAL
CONC	CONCRETE					
COP	COPPER	MAX		MAXIMUM	V	VACUUM OR VALVE
CJ	CONSTRUCTION JOINT	MCC		MOTOR CONTROL CENTER	VAR	VARIES
CP	CONTROL POINT	MGD		MILLION GALLONS PER DAY	VERT	VERTICAL
CW	COLD WATER	MH		MANHOLE		
CY	CUBIC YARD	MIN		MINIMUM, MINUTE	W	WEIR
		MJ		MECHANICAL JOINT	W/	WITH
					W/O	WITHOUT
D	DRAIN	NC		NORMALLY CLOSED	WAS	WASTE ACTIVATED SLUDGE
DEC	DECANT	NG		NATURAL GAS	WC	WATER CLOSET
DIA	DIAMETER	NIC		NOT IN CONTRACT	WH	WATER HEATER
DIM	DIMENSION	NO		NORMALLY OPEN	WL	WATER LINE
DI	DUCTILE IRON PIPE	NPW		NON- POTABLE WATER	WWF	WELDED WIRE FABRIC
DL	DEAD LOAD					
DSPT	DOWN SPOUT				YH	YARD HYDRANT
DWG	DRAWING					
		OC		ON CENTER		
E	ELECTRICAL CONDUIT	OD		OUTSIDE DIAMETER		
EA	EACH	OPG		OPENING		
EF	EACH FACE	OPP		OPPOSITE		
EFFL	EFFLUENT	PB		PULL BOX		
EL	ELEVATION	PE		POLYETHYLENE EXP. JT. MATERIAL		
EW	EACH WAY	P/L		PROPERTY LINE		
EX	EXISTING	POJ		PUSH ON JOINT		
EXF	EXHAUST FAN	PSF		POUNDS PER SQUARE FOOT		
EXP JT	EXPANSION JOINT	PSI		POUNDS PER SQUARE INCH		
		PVC		POLYVINYL CHLORIDE		
F	FILTER	PW		POTABLE WATER		
FCAR	FLANGED COUPLING ADAPTER,					
	RESTRAINED	R		RECIRCULATION		
FD	FLOOR DRAIN	RAD		RADIUS		
FDN	FOUNDATION	RAS		RETURN ACTIVATED SLUDGE		
FFE	FINISHED FLOOR ELEVATION	RCP		REINFORCED CONCRETE PIPE		
FH	FIRE HYDRANT	RD		ROOF DRAIN		
FLD	FILTRATE DRAIN	REINF		REINFORCING		
FLG	FLANGE	REQ'D		REQUIRED		
FL	FLUSHING LINE	RW (ROW)		RIGHT-OF-WAY		
FLR	FLOOR					
FM	FORCE MAIN					
FRP	FIBER REINFORCED PLASTIC					
FT	FEET OR FOOT					
FTG	FOOTING					
FW	FINISHED WATER					

GENERAL NOTES

1. ALL PROPERTY AND RIGHT-OF-WAY LINES INFORMATION SHOWN IN DRAWING SET ARE APPARENT AND SHALL NOT BE DEEMED EXACT LOCATIONS, UNLESS OTHERWISE NOTED. INFORMATION WAS OBTAINED VIA "KENTUCKY ON-LINE" GIS WEBSITE AND RWRA'S EASEMENT AGREEMENT.
2. EXISTING UTILITY INFORMATION SHOWN IN DRAWING SET, MEETS "ASCE 36-02" QUALITY LEVEL "D", UNLESS OTHERWISE NOTED.

UTILITY COORDINATION AND PROJECT DEPICTION OF EXISTING SUBSURFACE UTILITY DATA:

UTILITY QUALITY LEVEL DESCRIPTIONS:

UTILITY QUALITY LEVEL A - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATIONS OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.

UTILITY QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

UTILITY QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL "D" INFORMATION.

UTILITY QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

3. NORTHING AND EASTING COORDINATES SHOWN ON ALL MANHOLE, INLETS, ETC. ARE SHOWN FROM CENTER OF STRUCTURE NOT CASTING, UNLESS OTHERWISE NOTED.
















































GENERAL SCHEMATIC LEGEND

	QUICK DISCONNECT		BOOSTER PUMP
	FLANGED SPOOL SECTION		AIR RELIEF VALVE
	PRESSURE REDUCER VALVE		FLOW METER
	FLANGED COUPLING ADAPTER		GATE VALVE
	BALL CHECK VALVE		FLOW CONTROL VALVE
	MOTOR ACTUATOR		VALVE
	FLEXIBLE CONNECTION		ECCENTRIC PLUG VALVE
	FLANGE FILLER & S.S. MESH SCREEN		CHECK VALVE
	90° V-NOTCH WEIR		INCREASER / REDUCER
	MAGNETIC FLOW METER		BUTTERFLY VALVE
	ULTRASONIC SENSOR		PIPE THROUGH FLOOR / WALL
	SUBMERSIBLE PUMP		BALL VALVE
	NEW PIPING AND EQUIPMENT		BLIND FLANGE OR PLUG
	EXISTING PIPING AND EQUIPMENT		HOSE BIBB
	FUTURE PIPING AND EQUIPMENT		STOP PLATE
			WEIR

HATCHING SYMBOLS

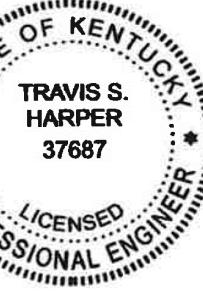
	-CMU WALL (PLAN VIEW)
	-GRANULAR BACKFILL (PROFILE VIEW)
	- DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
	- GROUT
	- CONCRETE
	- STEEL
	- COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION
	- ABANDONED IN PLACE

DRAWING SET LEGEND

	EXISTING OVERHEAD TELEPHONE LINE		AC UNIT		TELEPHONE MANHOLE
	EXISTING GAS LINE AND VALVE		BOLLARD		TELEPHONE LINE MARKER
	EXISTING WATER LINE AND VALVE		BOULDER / LARGE ROCK		TRAFFIC MANHOLE
	EXISTING FIBER OPTIC LINE		CENTER LINE MONUMENT		WATER LINE MARKER
	EXISTING OVERHEAD ELECTRIC LINE		CONTROL POINT / BENCH MARK		WATER METER
	EXISTING BURIED ELECTRIC		DRILL HOLE		VALVE
	EXISTING NON-POTABLE WATER LINE		MAIL BOX		IRRIGATION CONTROL VALVE
	EXISTING POTABLE WATER LINE		FLAG POLE		FIRE HYDRANT
	EXISTING BURIED TELEPHONE LINE		POST		FLUSH HYDRANT
	EXISTING FENCE		STUMP		YARD HYDRANT
	APPARENT RIGHT-OF-WAY		BUSH / HEDGE		WALL SPIGOT
	APPARENT PROPERTY LINE		DECIDUOUS TREE		EXISTING PIPE PLUG
	EDGE OF ROAD		CONIFEROUS TREE		STORM CATCH BASIN (SQUARE)
	EDGE OF ROAD WITH CURB		SIGN		STORM CATCH BASIN (ROUND)
	EXISTING MAJOR CONTOUR LINE		UTILITY LOCATE FLAG		STORM CURB INLET
	EXISTING MINOR CONTOUR LINE		GAS LINE MARKER		STORM MANHOLE
	NEW WATER LINE		GAS VALVE		SANITARY MANHOLE
	NEW SANITARY SEWER LINE		GAS METER		SANITARY VALVE
	NEW FORCE MAIN		GUY POLE		CLEANOUT
	PROPOSED MAJOR CONTOUR LINE		POWER POLE		VENT
	PROPOSED MINOR CONTOUR LINE		LIGHT POLE		NEW VALVE
			GUY WIRE		NEW FIRE HYDRANT
			ELECTRIC METER		NEW FLUSH HYDRANT
			ELECTRIC PANEL		NEW WET SADDLE AND VALVE BODY
			ELECTRIC TRANSFORMER		NEW PLUG
			HAND HOLE BOX		NEW LINE STOP
			FIBER OPTIC MARKER		
			TEL/TV PEDESTAL		NEW CUT AND CAP

DISCLAIMER NOTE:
THIS DRAWING REFLECTS TYPICAL INFORMATION,
SOME MAY NOT BE APPLICABLE TO THIS PROJECT.

DISCLAIMER NOTE:
THIS DRAWING REFLECTS TYPICAL INFORMATION,
SOME MAY NOT BE APPLICABLE TO THIS PROJECT.



Teri Harper 5/1/2025
Signature Date

**REGIONAL WATER
RESOURCE AGENCY**

**MISCELLANEOUS PUMP
STATION INSULATION
REPAIRS - HAIL STORM 2025
CONTRACT #2025-32**

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Designed By: TSH	Drawn By: ACF	Checked By: TLC
Issue Date: 1/28/2025	Project No: S25061	Scale: AS SHOWN

SYMBOLS AND ABBREVIATIONS

Drawing No:

G3

Sheet: 3 OF 11

1. CONTRACTOR SHALL NOT ACCESS ANY PUMP HOUSES, KEEPING THE DOORS AND HATCHES CLEAR AT ALL TIMES FOR RWRA'S ACCESS.
2. CONTRACTOR SHALL NOT STORE ANY MATERIAL IN THE PUMP HOUSES.
3. CONTRACTOR SHALL NOT ADJUST ANY VALVES OR METERS.
4. CONTRACTOR SHALL NOT PLACE HEAVY STORAGE BOXES OR ANY MATERIALS OF EXCESSIVE WEIGHT ON GRATES AT PUMP STATIONS.
5. CONTRACTOR SHALL NOT ALLOW DEBRIS TO FALL INTO OPEN OR GRATED PUMP STATION WELLS AND SHALL TAKE CARE TO ENSURE DEBRIS IS NOT INTRODUCED INTO RWRA'S SEWER SYSTEM.
6. CONTRACTOR SHALL CONTAIN ALL DEBRIS CONTINUOUSLY, DURING REMOVAL AND REPLACEMENT OF INSULATION.
7. CONTRACTOR SHALL LOCK THE GATE TO EACH PUMP STATION ANY TIME THE SITE IS LEFT.
8. CONTRACTOR SHALL BE RESPONSIBLE TO SECURE STORED MATERIALS AT ALL TIMES AND THROUGHOUT THE DURATION OF THE WORK AT NO EXPENSE OR INTERRUPTION TO THE OWNER OR NEIGHBORING FACILITY.
9. CONTRACTOR SHALL ONLY PARK ON PAVEMENT NEAR THE PUMP STATION.
10. CONTRACTOR SHALL CONFINED ALL WORK AND STORAGE TO THE PAVED AREA.

— BARRON DRIVE PUMP
STATION SITE

BARRON DRIVE

WENDELL FORD EXPRESSWAY

WENDELL FORD EXPRESSWAY

SCALE: 1"=50'-0"

SCALE: 1"=50'-0"

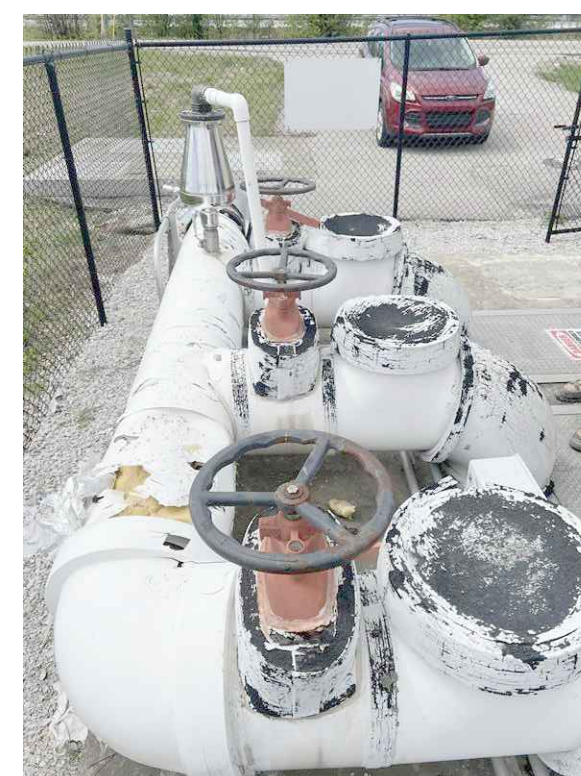


SCALE: 1"=20'-0"

0 20' 40'

A horizontal graphic scale bar with alternating black and white segments. It is marked with '0' at the left end, '20'' in the middle, and '40'' at the right end.

NOT TO SCALE



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INDICATES PHOTO NUMBER AND DIRECTION
(PHOTOS TAKEN BY COMMONWEALTH
ENGINEERS, INC. ON 04/9/25)



Signature

5/1/2025
Date

REGIONAL WATER
RESOURCE AGENCY

MISCELLANEOUS PUMP
STATION INSULATION
REPAIRS - HAIL STORM 2025
CONTRACT #2025-32

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Now what's below. 811 before you dig.
1-800-382-5544
(IT'S THE LAW)

[illegible]

Designed By: TSH	Drawn By: ACF	Checked By: TLC
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Issue Date: 4/28/2025	Project No: S25061	Scale: AS SHOWN
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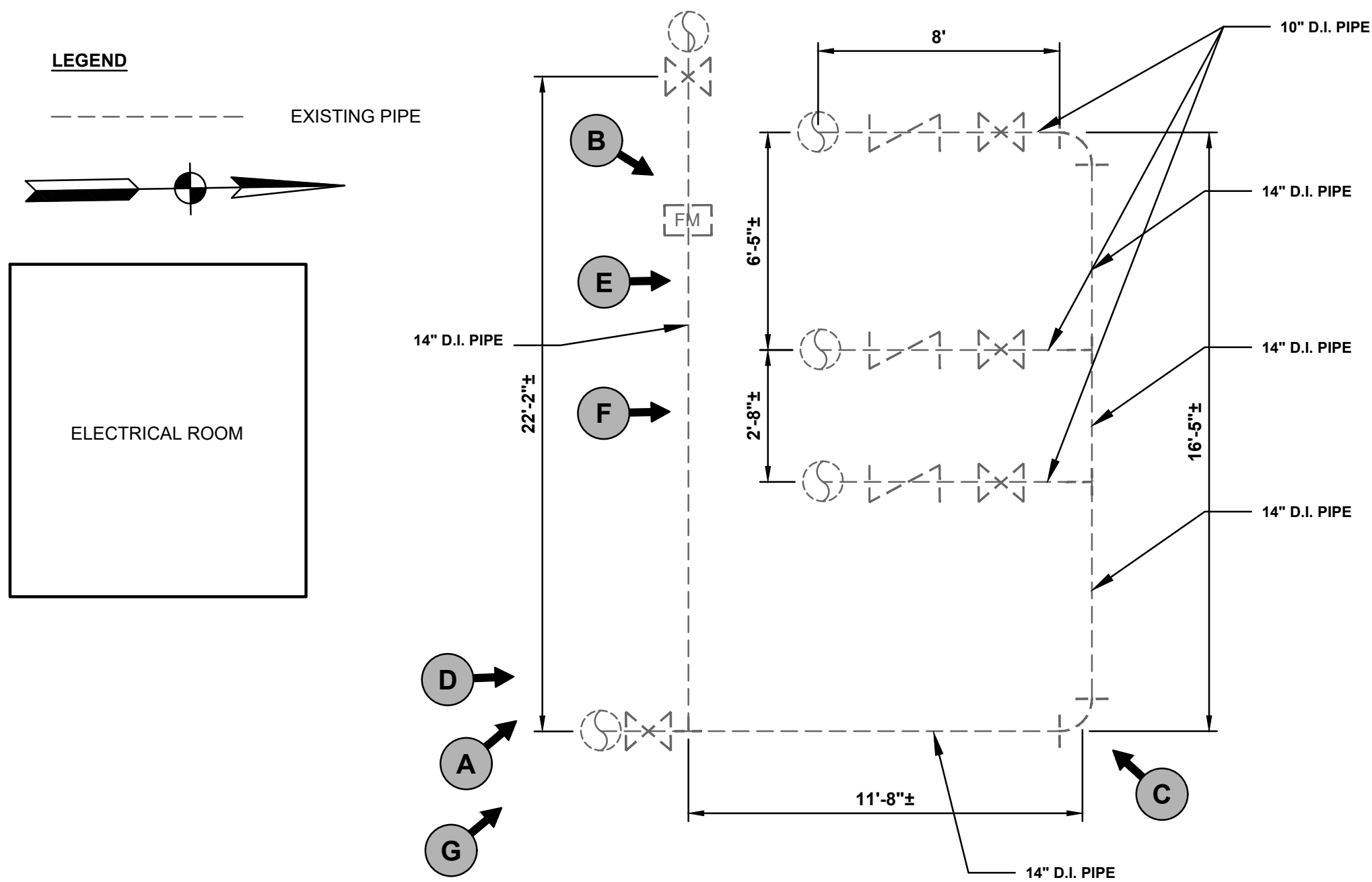
PUMP STATION - BARRON DR. PHOTO LOG

Drawing No:

G7

Sheet: 7 OF 11

FILE: Z:\BIDDER\CLIENTS\LA JENIRA\LA_OVENSENS\GOOD_C52681\MISC PUMP STATION INSUL REPAIRS-HAL STORM 202506 CADIA CURRENT FILES\DRAWINGS\LA DETAILS.DWG
Saved: 5/1/2025 11:54:42 AM
Plotted: 5/1/2025 11:55:40 AM
Current User: Andrew Farris
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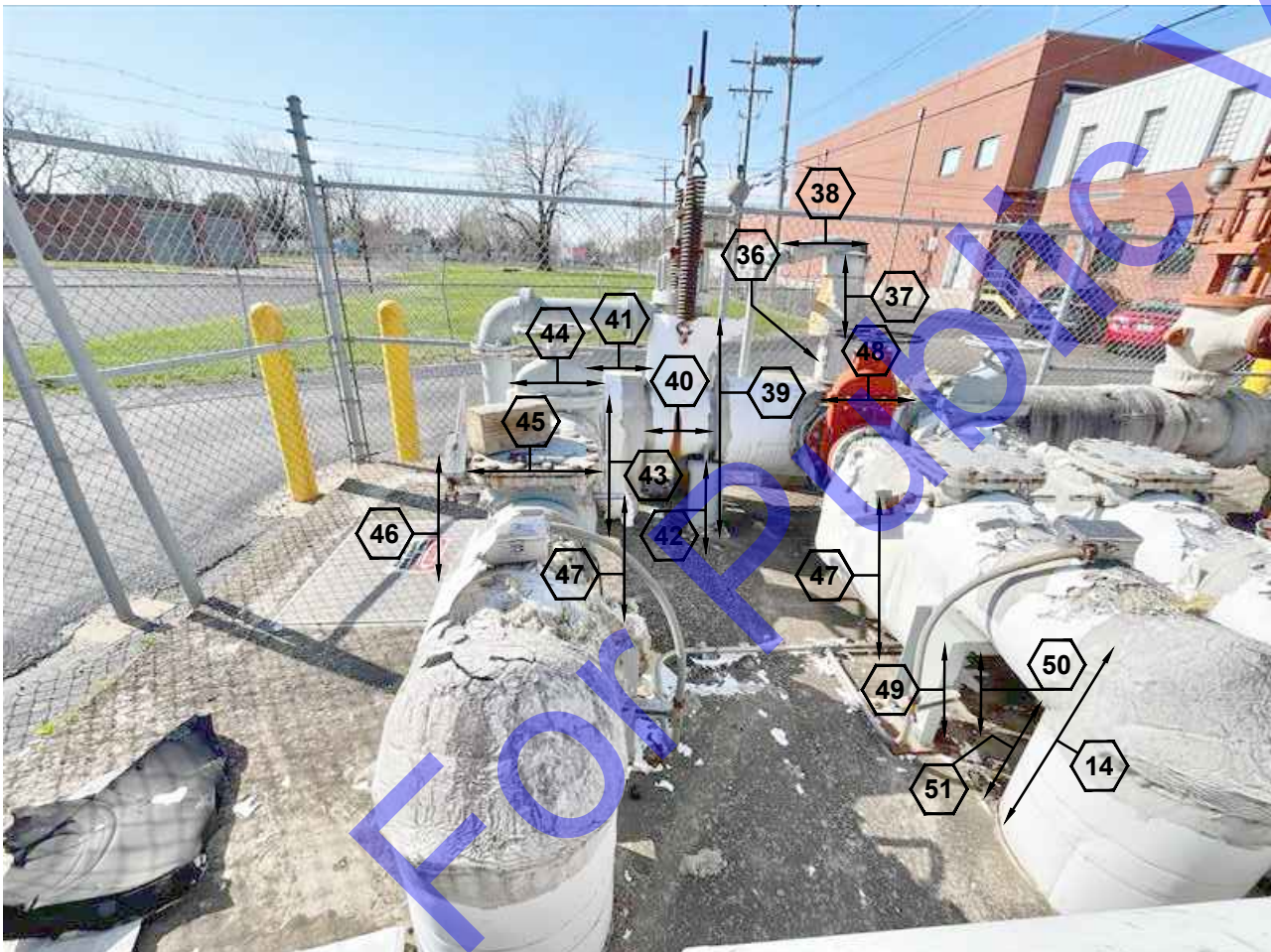


**DUBLIN LANE P.S.
UPPER PLAN DIAGRAM**

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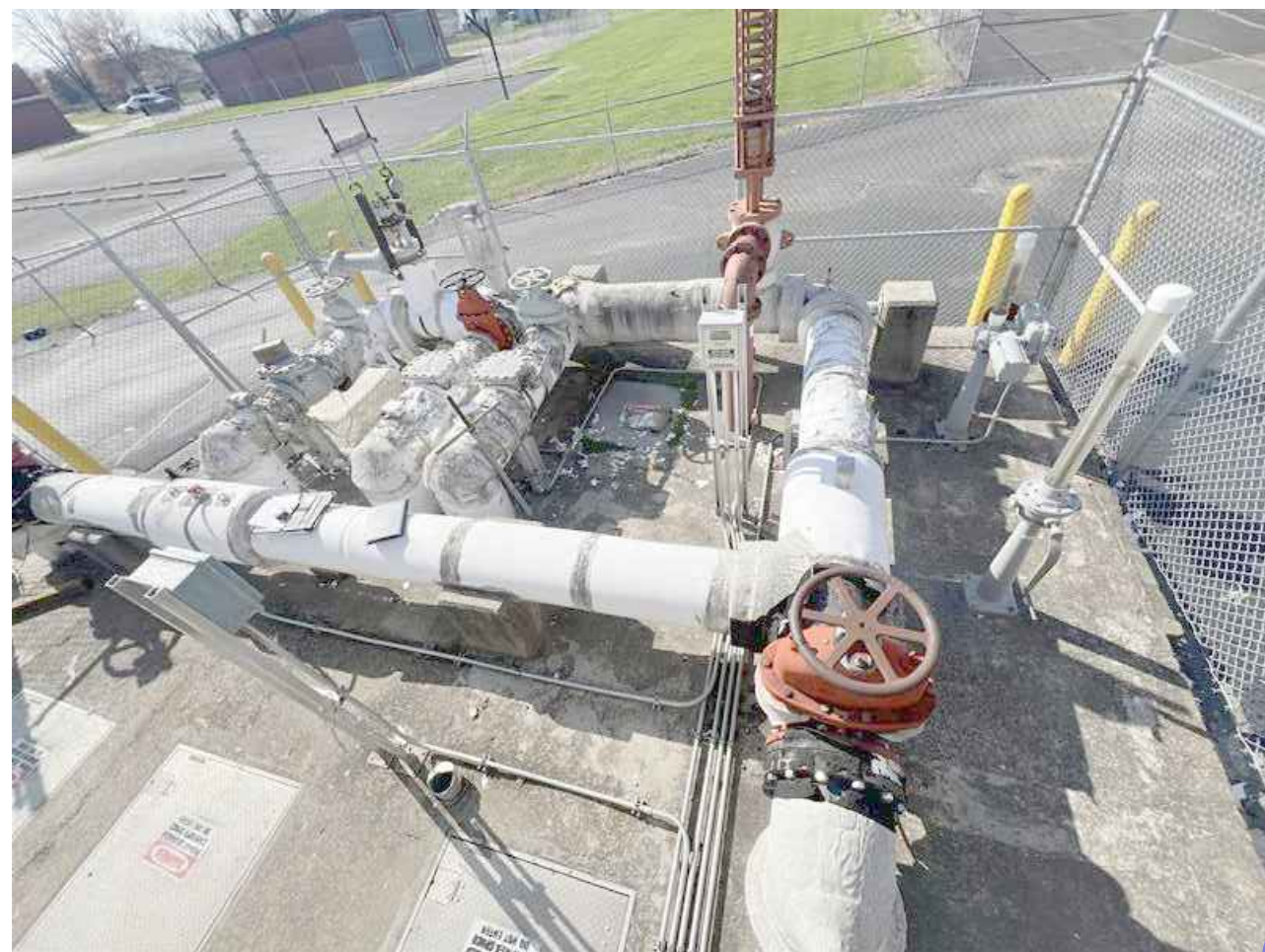
MEASUREMENT KEYNOTES:

1. APPROXIMATE DISTANCE FROM OUTSIDE OF INSULATION TO OUTSIDE OF INSULATION ON FLANGE IS 24".
2. APPROXIMATE HEIGHT FROM SLAB TO TOP OF INSULATION ON FLANGE IS 21"
3. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF INSULATION ON FLANGE IS 14.25"
4. APPROXIMATE DIAMETER OF INSULATION NEAR SLAB IS 20".
5. APPROXIMATE HEIGHT FROM SLAB TO TOP OF GATE VALVE FLANGE IS 50".
6. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF GATE VALVE IS 25".
7. APPROXIMATE HEIGHT FROM OTHER SLAB TO BOTTOM OF GATE VALVE IS 17".
8. APPROXIMATE LENGTH FROM OUTSIDE OF FLANGE TO OUTSIDE OF FLANGE ON GATE VALVE IS 18".
9. APPROXIMATE HEIGHT OF CONCRETE BLOCK IS 24".
10. APPROXIMATE DEPTH OF CONCRETE BLOCK IS 28".
11. APPROXIMATE WIDTH OF CONCRETE BLOCK IS 18.25".
12. APPROXIMATE LENGTH OF INSULATION ON MAG METER IS 36".
13. APPROXIMATE HEIGHT FROM BOTTOM OF INSULATION TO SLAB IS 14".
14. APPROXIMATE HEIGHT FROM APPARENT CENTER OF PIPE TO SLAB IS 25".
15. APPROXIMATE HEIGHT FROM SLAB TO TOP OF INSULATION ON FLANGE OF ELBOW IS 13".
16. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF INSULATION ON FLANGE OF ELBOW IS 6.5".
17. APPROXIMATE DIAMETER OF ELBOW IS 16" WITHOUT INSULATION. WILL REQUIRE INSULATION.
18. APPROXIMATE DIAMETER OF ELBOW WITH INSULATION IS 18".
19. APPROXIMATE LENGTH OF GATE VALVE IS 24.5".
20. APPROXIMATE HEIGHT FROM TOP OF GATE VALVE TO SLAB IS 41.25".
21. APPROXIMATE DISTANCE FROM OUTSIDE OF FLANGE ON GATE VALVE TO OUTSIDE OF HEAT TRACING INSULATION IS 20.75".
22. APPROXIMATE LENGTH OF INSULATION ON HEAT TRACING METER 36".
23. APPROXIMATE LENGTH OF CONCRETE BLOCK IS 24".
24. APPROXIMATE WIDTH OF CONCRETE BLOCK IS 20.25".
25. APPROXIMATE DISTANCE FROM FLANGE INSULATION TO FLANGE INSULATION IS 65".
26. APPROXIMATE DISTANCE OF INSULATION ON FLANGE OF ELBOW IS 7.25".
27. APPROXIMATE HEIGHT FROM SLAB TO TOP OF METAL BASE IS 19".
28. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF METAL BASE IS 16.75".
29. APPROXIMATE HEIGHT FROM TOP FLANGE TO INSULATED FLANGE AT BOTTOM OF THE VALVE IS 17".
30. APPROXIMATE DISTANCE FROM FLANGE TO APPARENT CENTER OF VALVE IS 13".
31. APPROXIMATE DISTANCE FROM FLANGE TO EDGE OF VALVE IS 19".
32. APPROXIMATE HEIGHT OF INSULATION ON FLANGE AT VALVE IS 5.5".
33. APPROXIMATE DISTANCE BETWEEN BOTTOM OF INSULATED FLANGE TO SLAB IS 37.5".
34. APPROXIMATE HEIGHT FROM SLAB TO TOP OF INSULATED PIPE IS 61".
35. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF INSULATED PIPE IS 49".
36. APPROXIMATE HEIGHT OF INSULATION IS 11".
37. APPROXIMATE HEIGHT OF INSULATION IS 18.5".
38. APPROXIMATE LENGTH OF INSULATION IS 18.8".
39. APPROXIMATE DISTANCE FROM SLAB TO TOP OF INSULATION IS 57.5".
40. APPROXIMATE DISTANCE BETWEEN FLANGE OF ELBOW AND FLANGE OF TEE IS 18".
41. APPROXIMATE WIDTH OF INSULATION ON ELBOW FLANGE IS 9".
42. APPROXIMATE HEIGHT FROM SLAB TO TOP OF METAL BASE IS 17".
43. APPROXIMATE HEIGHT FROM SLAB TO TOP OF GATE VALVE IS 37.25".
44. APPROXIMATE WIDTH OF GATE VALVE IS 20". WIDTH OF GATE VALVE INTO PAGE IS 10".
45. APPROXIMATE WIDTH OF CHECK VALVE IS 17". WIDTH OF GATE VALVE INTO PAGE IS 16".
46. APPROXIMATE DISTANCE FROM SLAB TO TOP OF CHECK VALVE IS 37".
47. APPROXIMATE DISTANCE FROM SLAB TO CENTER OF CHECK VALVE HANDLE IS 31.5".
48. APPROXIMATE WIDTH OF GATE VALVE IS 16". WIDTH OF GATE VALVE INTO PAGE IS 10".
49. APPROXIMATE HEIGHT FROM SLAB TO TOP OF METAL BASE IS 19".
50. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF METAL BASE IS 16.75".
51. APPROXIMATE HEIGHT FROM SLAB TO BOTTOM OF INSULATION IS 16".
52. APPROXIMATE DISTANCE FROM OUTSIDE OF FLANGES ON CHECK VALVE IS 24.75".
53. APPROXIMATE HEIGHT FROM SLAB TO TOP OF CHECK VALVE IS 37.5".
54. APPROXIMATE HEIGHT FROM SLAB TO TOP OF GATE VALVE IS 38.5".
55. APPROXIMATE HEIGHT FROM SLAB TO TOP OF GATE VALVE IS 37.5".
56. APPROXIMATE LENGTH OF INSULATION IS 20.5".
57. APPROXIMATE LENGTH OF INSULATION IS 64".
58. APPROXIMATE HEIGHT OF INSULATION FROM TOP OF PIPE INSULATION TO FLANGE IS 11".



DUBLIN LANE PUMP STATION

NOT TO SCALE



DUBLIN LANE PUMP STATION

NOT TO SCALE



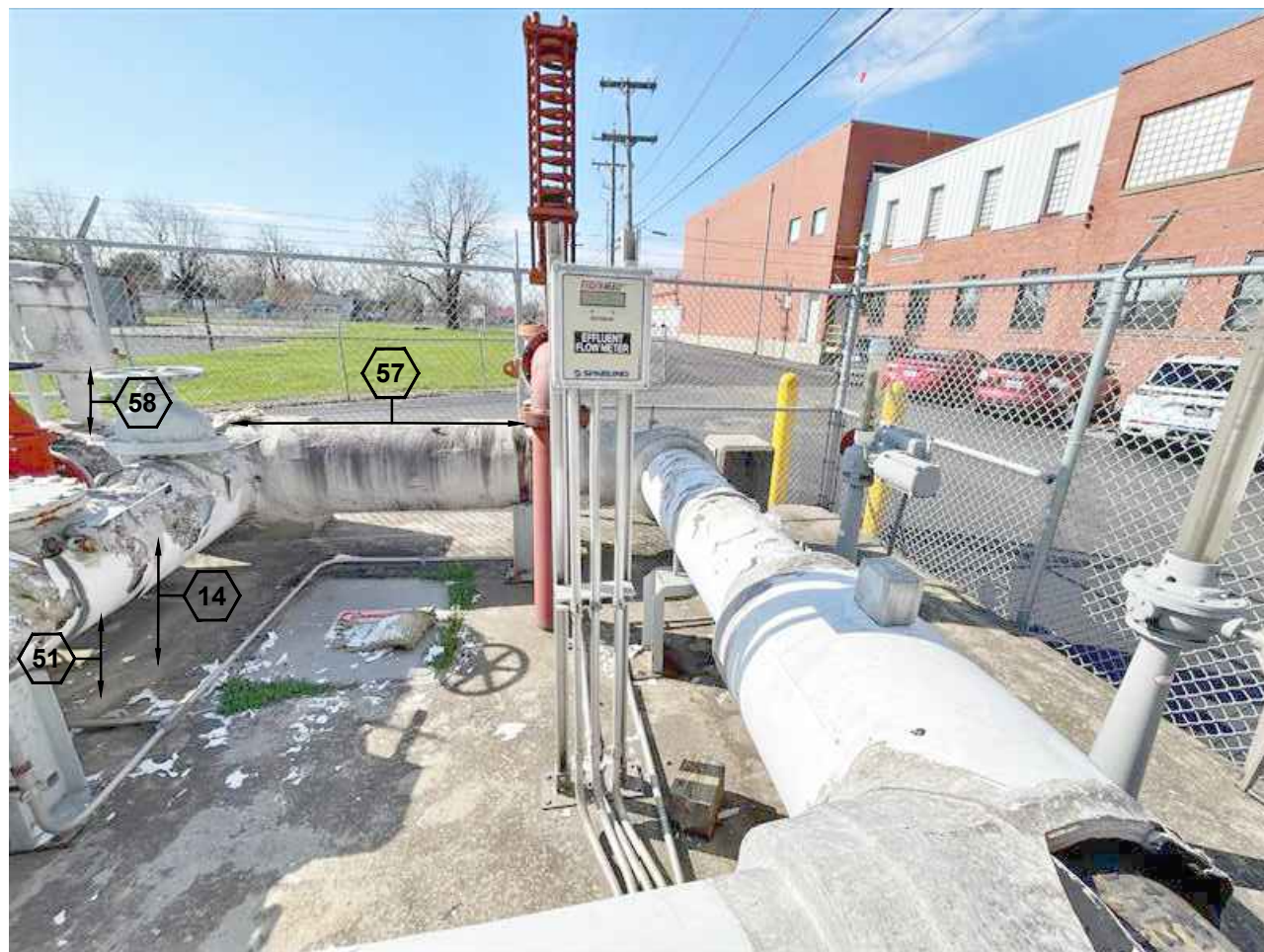
DUBLIN LANE PUMP STATION

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DUBLIN LANE PUMP STATION

NOT TO SCALE



DUBLIN LANE PUMP STATION

NOT TO SCALE



DUBLIN LANE PUMP STATION

NOT TO SCALE



DUBLIN LANE PUMP STATION

NOT TO SCALE

No.	Submittal / Revision	By	Date

Designed By: TSH	Drawn By: ACF	Checked By: TLC
Issue Date: 4/28/2025	Project No: S25061	Scale: AS SHOWN

PUMP STATION DUBLIN
LA. DETAILS

Drawing No:

D3

Sheet: 10 OF 11



1. APPROXIMATE WIDTH OF GATE VALVE INSULATION IS 8.5".
2. APPROXIMATE WIDTH OF GATE VALVE INSULATION IS 16".
3. APPROXIMATE HEIGHT OF GATE VALVE INSULATION IS 8".
4. APPROXIMATE HEIGHT OF GATE VALVE INSULATION IS 7.5".
5. TOP OF GATE VALVE INSULATION TO SLAB IS APPROXIMATELY 27".
6. TOP OF GATE VALVE INSULATION TO SLAB IS APPROXIMATELY 26.5".
7. CHECK VALVE INSULATION IS APPROXIMATELY 17" IN DIAMETER.
8. CHECK VALVE INSULATION HEIGHT IS APPROXIMATELY 4".
9. TOP OF CHECK VALVE INSULATION TO SLAB IS APPROXIMATELY 28".
10. TOP OF CHECK VALVE INSULATION TO SLAB IS APPROXIMATELY 28.5".
11. CENTER OF CHECK VALVE HANDLE TO SLAB IS APPROXIMATELY 20.75".
12. APPARENT CENTER OF PIPE TO SLAB IS 14".
13. APPARENT CENTER OF PIPE TO BASE OF JOINT IS 21".
14. TOP OF PIPE INSULATION TO SLAB IS APPROXIMATELY 23".
15. APPROXIMATE DISTANCE FROM CENTER OF GATE VALVE TO CENTER OF TEE IS 15".
16. APPROXIMATE HEIGHT FROM BASE OF JOINT TO APPARENT CENTER OF ELBOW IS 14".
17. BOTTOM OF PIPE INSULATION TO SLAB IS APPROXIMATELY 7".
18. CONCRETE SUPPORT BLOCK IS APPROXIMATELY 14"H x 14"W x 14"L.
19. CONCRETE SUPPORT BLOCK IS APPROXIMATELY 12.5"H x 14.5"W x 14.5"L.
20. CONCRETE SUPPORT BLOCK IS APPROXIMATELY 12.5"H x 14.5"W x 14.5"L.
21. APPROXIMATE DISTANCE BETWEEN CONCRETE SUPPORT BLOCK (18) AND (19) IS 41.5".
22. APPROXIMATE DISTANCE BETWEEN CONCRETE SUPPORT BLOCK (19) AND (20) IS 43".

