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SERVING DEVELOPERS, INDUSTRY, BUSINESS AND GOVERNMENT BY PROVIDING PROVEN SOLUTIONS SINCE 1976

MORGAN COUNTY WATER DISTRICT WATERLINE REPLACEMENT PROJECT PHASE 1

OLD KY 172

MORGAN COUNTY, KENTUCKY

JULY, 2020

FUNDED BY

APPALACHIAN REGIONAL COMMISSION

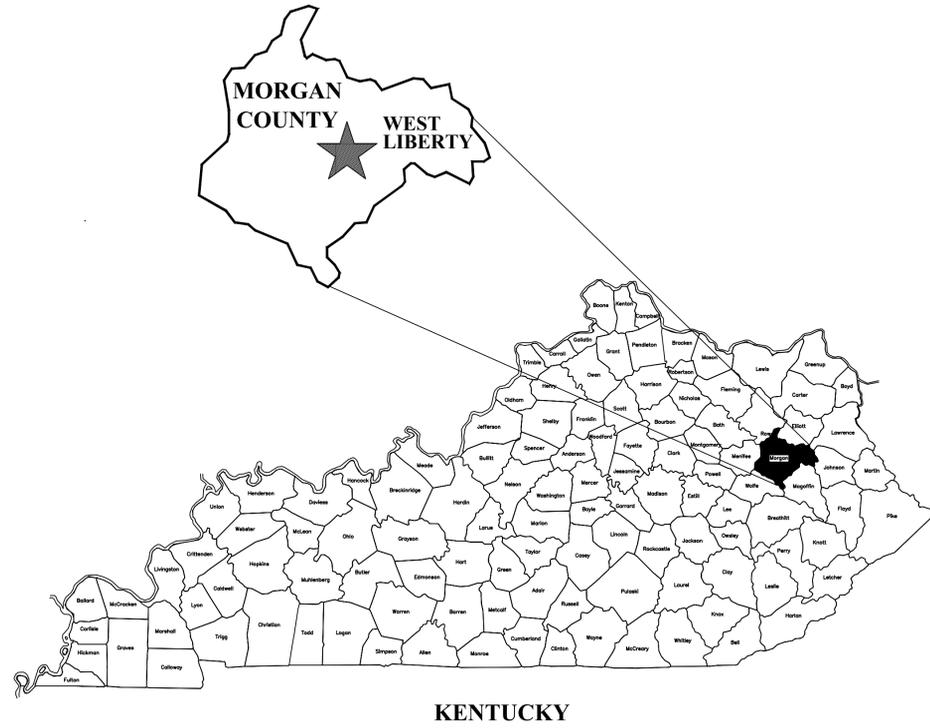
USDA - RURAL DEVELOPMENT

OFFICERS

SHANNON ELAM, CHAIRMAN



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ABBREVIATIONS

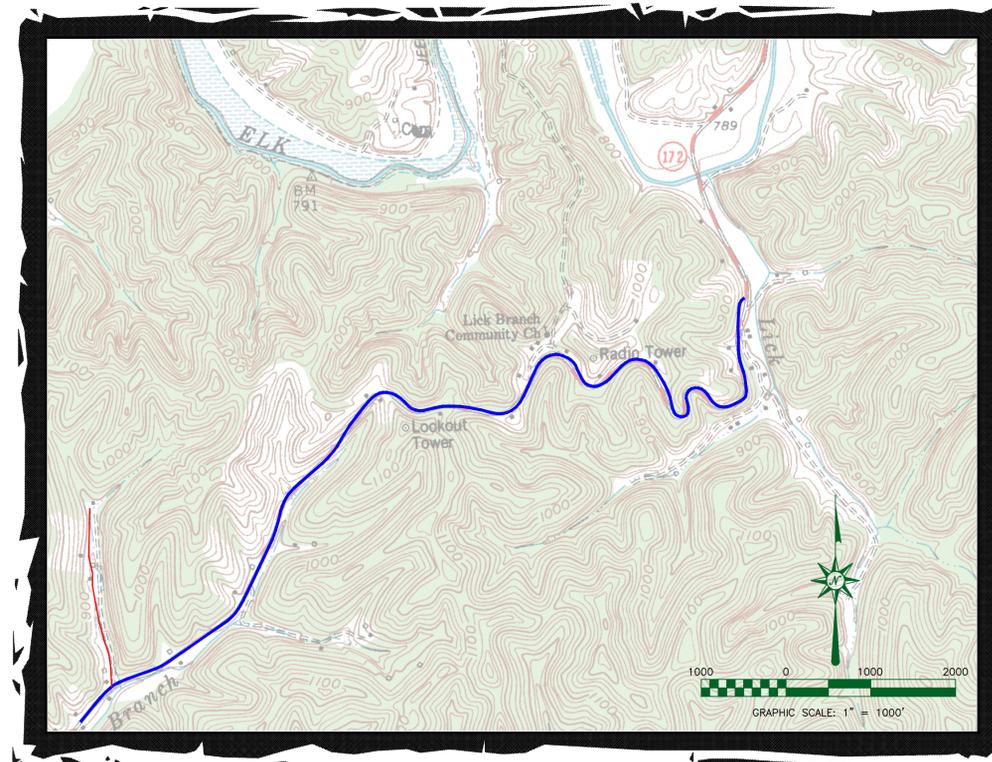
A.F.F.	ABOVE FINISHED FLOOR	EXT	EXTERIOR	PRV	PRESSURE RELIEF VALVE
ALUM	ALUMINUM	F.D	FLOOR DRAIN	PRESS	PRESSURE
APPROX.	APPROXIMATE	FL	FINISHED FLOOR	REDUC	REDUCING
BIT	BITUMINOUS	FLG	FLANGE	RED	REDUCER
BLDG	BUILDING	FL	FENCELINE	REINF.	REINFORCING
BLK	BLOCK	FLOC	FLOCCULATOR	REFRIG.	REFRIGERATOR
B.M.	BENCH MARK	GD	GRADE	RM	ROOM
B'FLY	BUTTERFLY	DIP	DUCTILE IRON PIPE	SAN	SANITARY
BOTT	BOTTOM	H.B.	HOSE BIBB	SCH.	SCHEDULE
CHEM	CHEMICAL	H	HEIGHT	SECT	SECTION
C.I.	CAST IRON	H.W.	HOT WATER	SED	SEDIMENTATION
C.I.S.P.	CAST IRON SOIL PIPE	INFL.	INFLUENT	SEW	SEWER
CL	CENTERLINE	INV.	INVERT	SHT	SHEET
CONC.	CONCRETE	LAV	LAVATORY	SOL	SOLUTION
CHLOR	CHLORINE	L	LENGTH	SPEC'S.	SPECIFICATION'S
CL	CLEARANCE	LOAD'G	LOADING	SQ.	SQUARE
C.W.	COLD WATER	LNG	LONG	S.S.	STAINLESS STEEL
CU	COPPER	MH	MANHOLE	ST	STEEL TUBE
C.O.	CLEANOUT	M.J.	MECHANICAL JOINT	STL	STEEL
CONT	CONTINUATION	MIN.	MINIMUM	STN.	STAINLESS
DGA	DENSE GRADED AGGREGATE	MTD.	MOUNTED	SURF	SURFACE
D.I.	DUCTILE IRON	MAX.	MAXIMUM	SVCS	SERVICES
DISCH	DISCHARGE	NO.	NUMBER	T	THICK
D.I.M.J.	DUCTILE IRON MECHANICAL JOINT	NRS	NONRISING STEM	T.O.C.	TOP OF CONCRETE
D.I.P.E.	DUCTILE IRON PLAIN END	N.T.S.	NOT TO SCALE	TYF.	TYPICAL
D.I.P.	DUCTILE IRON PIPE	O.C.	ON CENTER	TRANS	TRANSITION
DEMO	DEMOLITION	O.D.	OVERALL DIMENSION	VAC	VACUUM
DIAG	DIAGONAL	OPER	OPERATOR	VAL	VALVE
EFFL	EFFLUENT	OP'NG	OPENING	VTR	VENT THRU ROOF
E.F.F.	EACH FACE	PE	POLYETHYLENE	VERT	VERTICAL
ELC	ELECTRIC	P.E.	PLAIN END	WD	WOOD
EL	ELEVATION	PI	PLATE	W.C.	WATER CLOSET
EQUIP	EQUIPMENT	PROP	PROPOSED	W/	WITH
E.W.	EACH WAY	PVC	POLYVINYL CHLORIDE	W.L.	WATER LEVEL
EXIST	EXISTING	PRV	PRESSURE RELIEF VALVE	W.S.E.	WATER SURFACE ELEVATION
		PRESS	PRESSURE	WWF	WOVEN WIRE FENCE

GENERAL NOTES:

- DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF SOME EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF EXISTING UTILITY OWNERS 48 HOURS (MIN.) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF SAID UTILITY.
- UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 36" (MIN.) COVER AS MEASURED FROM FINISHED GRADE TO THE OUTSIDE SURFACE OF THE PIPE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.

CONSTRUCTION ON STATE RIGHT-OF-WAY NOTES:

- WATER MAIN/SEWER LINES TO BE CONSTRUCTED WITHIN THE KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY: TRENCHES SHALL BE OF A DEPTH SUFFICIENT TO PROVIDE A MINIMUM COVER OF 36" FROM THE EXISTING GROUND SURFACE TO THE TOP OF THE PIPE AND BE LOCATED APPROXIMATELY AS SHOWN UNLESS OTHERWISE NOTED. SEE INDIVIDUAL SHEETS FOR DETAILS.
- ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY: SHALL BE A MINIMUM OF 36" DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF THE PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY.
- ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
- PROTECTION OF EXISTING PAVING: CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING THE BITUMINOUS PAVING. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. PAVING PROTECTION SHALL BE ACCOMPLISHED BY THE USE OF RUBBER AND STREET PADDED MACHINERY OR OTHER APPROVED EQUIPMENT WELL SUITED FOR THIS TYPE OF CONSTRUCTION.
- BANK AND DITCH PROTECTION EXCAVATION: DURING CONSTRUCTION, ALL EMBANKMENTS, REFILLS AND EXCAVATIONS SHALL BE KEPT SHAPED AND DRAINED BY THE CONTRACTOR. DITCHES AND DRAINS ALONG THE HIGHWAYS SHALL BE MAINTAINED IN SUCH A MANNER AS TO DRAIN EFFECTIVELY AT ALL TIMES.
- PRIVATE ENTRANCE ROAD: ALL ROADWAYS AND DRIVEWAYS WITHIN THE WORK LIMITS OF STATE RIGHT-OF-WAYS SHALL BE REFILLED TO THE NATURAL SURFACE OF THE GROUND WITH APPROVED MATERIAL. THE MATERIAL SHALL BE PLACED AND COMPACTED TO A SMOOTHNESS SUITABLE FOR TRAFFIC. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR MAINTAINING THESE ROADWAYS UNTIL THE RESTORATION IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE THAT ALL PRIVATE BUSINESSES AND RESIDENCES ALONG THE ROUTE OF THE PROPOSED WATER MAIN/SEWER LINE CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- PROTECTION OF EXISTING DRAINAGE CULVERTS: ALL LOCATIONS WHERE THE PROPOSED WATER MAIN/SEWER LINE IS PARALLEL WITH OR CROSSING AN EXISTING STORM SEWER, THE COST OF RELAYING EXISTING CULVERT PIPES OR THE EXTRA DEPTH REQUIRED TO AVOID THE EXISTING CULVERT IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND IS NOT A PAY ITEM.
- SOME EXISTING UTILITIES HAVE NOT BEEN SHOWN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE REPRESENTATIVES OF THE VARIOUS UTILITIES WHEN WORKING NEAR ANY EXISTING UTILITY. NO ADDITIONAL PAYMENT TO THE CONTRACTOR WILL BE MADE FOR EXTRA DEPTH REQUIRED TO AVOID ANY EXISTING UTILITY.



VICINITY MAP
SCALE: 1" = 1,000'

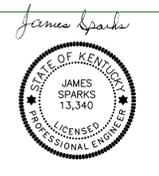
BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6077 TO REACH KY 811. THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHOM DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.



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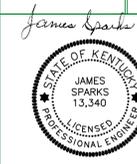
West Liberty Corporate Limits



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MORGAN COUNTY WATER DISTRICT
WATERLINE REPLACEMENT PROJECT PHASE 1

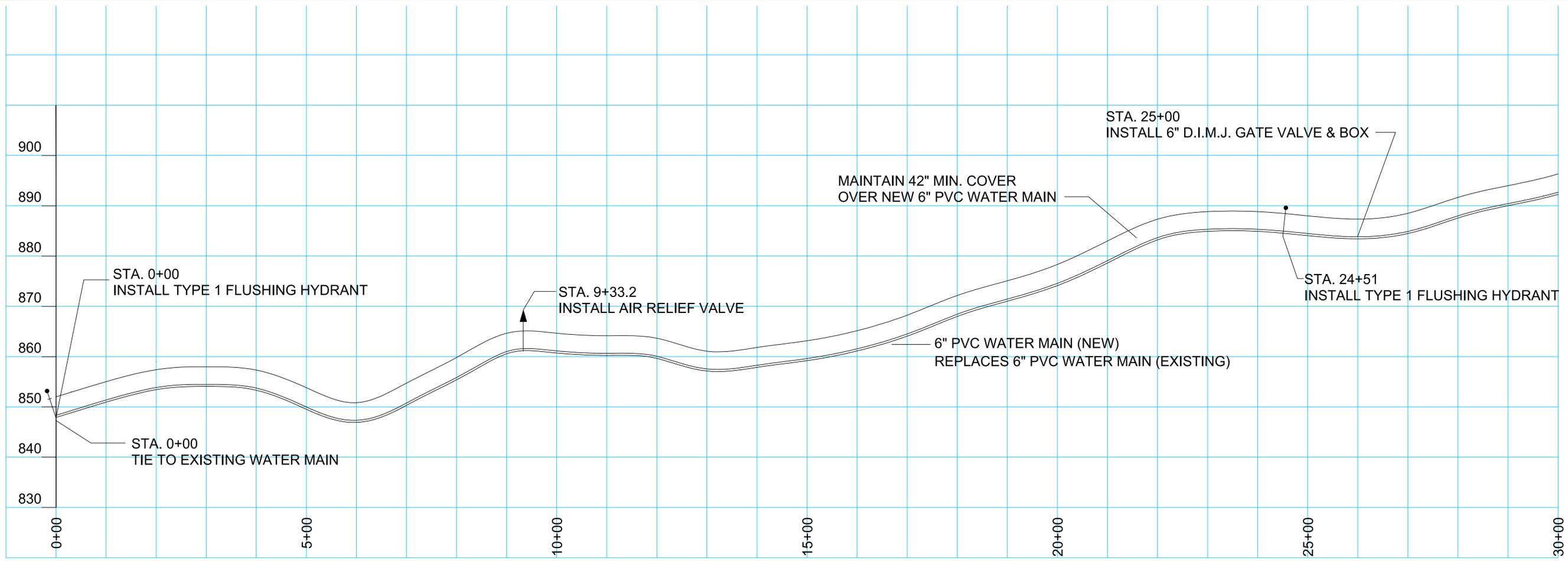
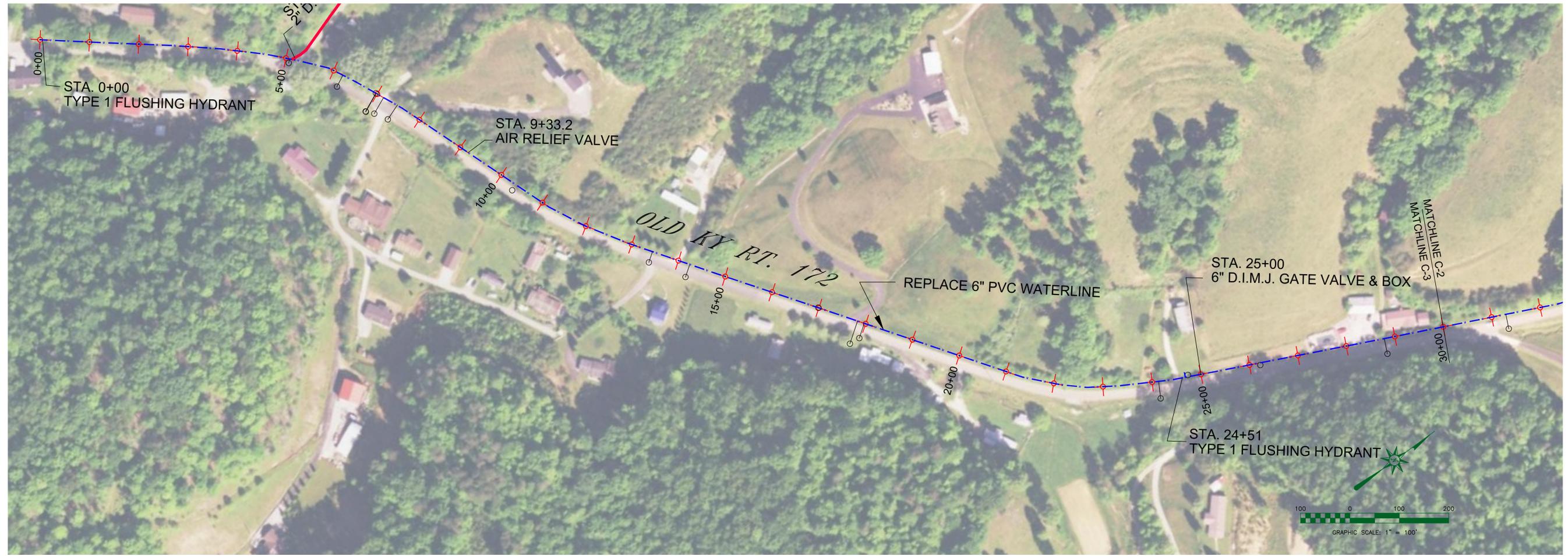
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date: 3-10-20
job no.: 1197.01.03
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MORGAN COUNTY WATER DISTRICT
408 PRESTONSBURG STREET
WEST LIBERTY, KENTUCKY 41472
MORGAN COUNTY

SHEET REFERENCE

C-1



LAST PRINTED ON: 07/12/2024 8:51:58AM JAMES H. SPARKS, JAMES H. SPARKS ENGINEERING, INC. DRAWING FILE LOCATION: C:\MORGAN COUNTY WATER DISTRICT\119-03 WATERLINE REPLACEMENT\03 DESIGN\DWG\02 WATERLINE REPLACEMENT.dwg

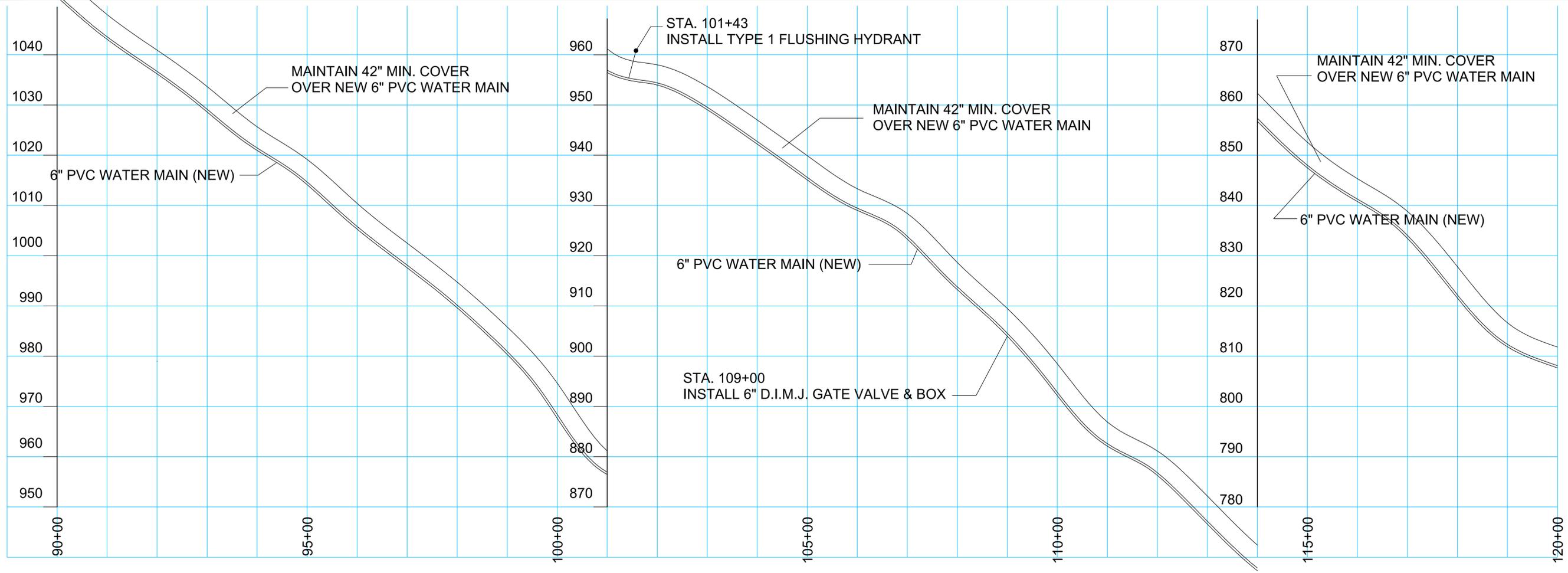
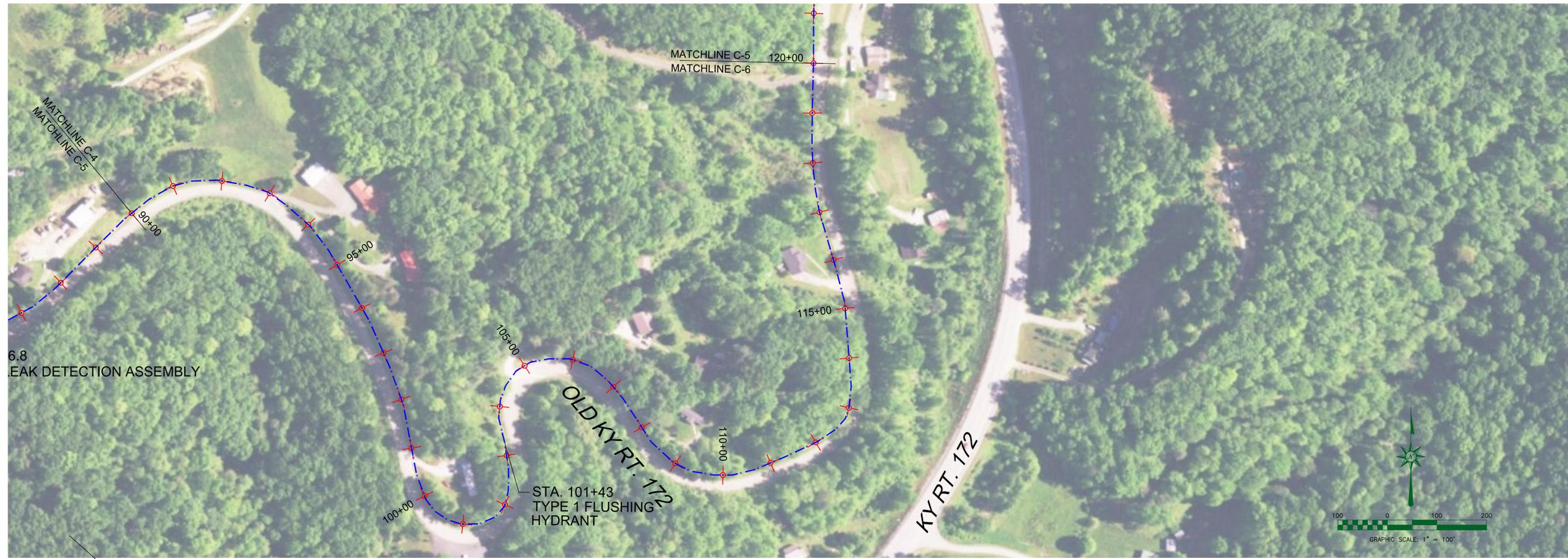
MORGAN COUNTY WATER DISTRICT
 408 PRESTONSBURG STREET
 WEST LIBERTY, KENTUCKY 41472
 MORGAN COUNTY

WATERLINE REPLACEMENT

James Sparks
 STATE OF KENTUCKY
 JAMES SPARKS
 13,340
 LICENSED PROFESSIONAL ENGINEER

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Sheet No. **C-2**



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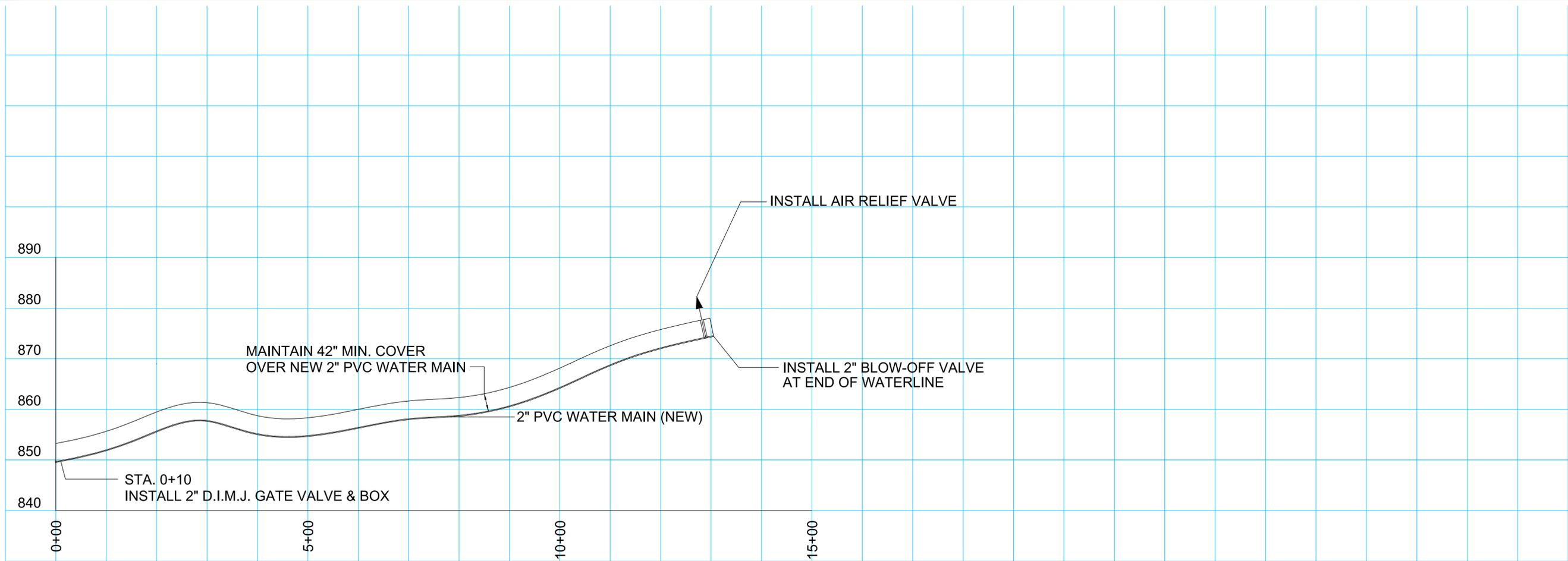
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408 PRESTONSBURG STREET
WEST LIBERTY, KENTUCKY 41472
MORGAN COUNTY

WATERLINE REPLACEMENT

James Sparks
STATE OF KENTUCKY
JAMES SPARKS
13,340
LICENSED PROFESSIONAL ENGINEER

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MORGAN COUNTY WATER DISTRICT WATERLINE REPLACEMENT PROJECT PHASE 1	DATE: 11/9/2023 AS SHOWN
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 MORGAN COUNTY

WATERLINE REPLACEMENT

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SHEET NO. **C-7**