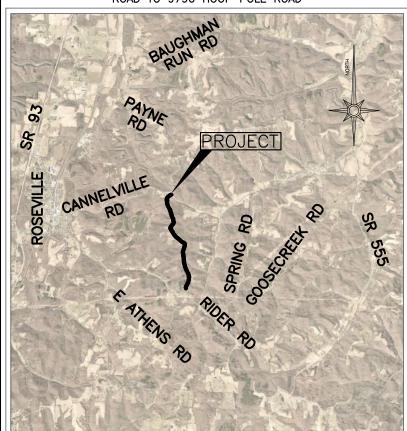


HOOP POLE ROAD WATERLINE EXTENSION

CLAY TOWNSHIP MUSKINGUM COUNTY, OHIO

HOOP POLE ROAD

THE DESIGN OF A WATERLINE EXTENSION FROM CANNELVILLE ROAD TO 9790 HOOP POLE ROAD



UNDERGROUND UTILITIES TWO WORKING DAYS

BEFORE YOU DIG CALL 1-800-362-2764 OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

NDEX OF	SHEETS	•	
TILE SHE	ET		
YMBOLS	& LINE	STYLES	LEGEND
ENEDAL	MOTES		

CINDY S. CAMERON, PRESIDENT MUSKINGUM COUNTY COMMISSIONER

INDEX OF CHEETS.

MOLLIE S. CROOKS MUSKINGUM COUNTY COMMISSIONER

MELISSA J. BELL MUSKINGUM COUNTY COMMISSIONER

PROPERTY OWNER: MUSKINGUM COUNTY COMMISSIONNER 401 MAIN STREET ZANESVILLE, OHIO 43701

CONTACT PERSON: DON MADDEN, PROJECTS DIRECTOR 401 MAIN STREET ZANESVILLE, OHIO 43701

11.30.23

Ohio Environmental Protection Agency

NOTE TO CONTRACTOR:
ANY MODIFICATIONS TO THE WATERLINE IMPROVEMENTS SHOWN ARE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. THIS POLICY SHALL BE ADHERED TO THROUGHOUT THE LIFE OF THIS PROJECT. ANY MODIFICATIONS MADE THAT THAT HAVE NOT BEEN APPROVED BY THE PROJECT ENGINEER MAY BE SUBJECT TO REMOVAL, AT THE DISCRETION OF THE PROJECT ENGINEER. THE COST TO REMOVE UNAPPROVED WORK SHALL BE BURDENED BY THE CONTRACTOR WHO PERFORMED SAID WORK. NOT THE OWNERS OR THE PROJECT ENGINEER.

ENGINEER'S SEAL:

03/25/2024

MJE GJW03/12/2024 11" x 17" TITLE

HOOP POLE ROAD ROSEVILLE, OHIO 437

POLE ROAD WATERLINE

LIGHT POLE	EXISTING FIRE HYDRANT	© PROPOSED GAS MANHOLE	© CLEAN OUT	≫ - PLUG VALVE		Mark I Eicher DE DC
LIGHT/POWER POLE	PROPOSED FIRE HYDRANT	© EXISTING GAS VALVE	EXISTING ELECTRIC RISER/PULL BOX			
POWER POLE	EXISTING WATER GATE VALVE	PROPOSED GAS VALVE	PROPOSED ELECTRIC RISER/PULL	EXISTING MAILBOX		1
PP POWER POLE	PROPOSED WATER GATE VALVE	EXISTING GAS SERVICE STOP	BÓX EXISTING ELECTRIC METER	MB PROPOSED MAILBOX		, A9
TELECOM POLE	EXISTING WATER METER	PROPOSED GAS SERVICE STOP	PROPOSED ELECTRIC METER	F MAILBOX		PREPARED
LIGHT/TELECOM POLE	PROPOSED WATER METER	□G EXISTING GAS LINE VENT	(Ē) EXISTING ELECTRIC MANHOLE	EXISTING TREE		
TELECOM/LIGHT/POWER POLE	PROPOSED AIR RELEASE VALVE	(s) EXISTING SANITARY SEWER MANHOLE	E PROPOSED ELECTRIC MANHOLE	EXISTING EVERGREEN TREE		
/) UNKNOWN POLE	(EXISTING WATER MANHOLE	S PROPOSED SANITARY SEWER	(T) EXISTING TELECOM MANHOLE	EXISTING SHRUB		
SIGN POLE	W PROPOSED WATER MANHOLE	MANHOLE (**) EXISTING SEPTIC TANK	PROPOSED TELECOM MANHOLE	EXISTING STONE FOUND	LINE TYPES W PROPOSED WATER	
GUY WIRE ANCHOR	EXISTING CATCH BASIN DOME SHAPED	PROPOSED SEPTIC	EXISTING TELEPHONE	EXISTING LARGE ROCK	— UGE — UGE — UNDERGROUND ELECTRIC — UGT — UGT — UGT — UNDERGROUND TELECOM — AFM — AFM — ABANDONED FORCEMAIN	d PROJECT
CELLPHONE TOWER	EXISTING CATCH BASIN NO. 2 - 2B	(EXISTING SEWER PUMP STATION	PEDESTAL PROPOSED TELEPHONE	GRINDER PUMP	FM FM FORCEMAIN EXISTING UNDERDRAIN G G G G G GAS LINE W W WATER LINE	F
EXISTING TOWER	PROPOSED CATCH BASIN NO. 2 – 2B	(SA) EXISTING SANITARY	PEDESTAL (□) EXISTING UNKNOWN	SPRING DEVELOPED	— E — E — E — E LECTRIC LINE -U—U—U—U—U—U—U— UTILITY LINE -F—F—F—F—F—F—F—F FENCE -V—V—V—V—V—V—V—V VEGETATION	Di
3	© EXISTING GAS METER	SEWER VALVE	PULL BOX		— X—X—X—X—X—— EXISTING FENCE — RW · RW — EXISTING RIGHT OF WAY — L/A — L/A — L/A — L/A — EXISTING LIMITED ACCESS	R
⊢ HALF HEADWALL	© PROPOSED GAS METER	SA PROPOSED SANITARY SEWER VALVE	EXISTING UNKNOWN MANHOLE	SIGNAL PEDESTAL	- RR R.W. RR R.W. RR R.W EXISTING RAILROAD RIGHT OF WAY	Si
HEADWALL	(G) EXISTING GAS MANHOLE	□SA EXISTING SANITARY SEWER LINE VENT	(U) EXISTING UNKNOWN UTILITY VALVE	PRIVATE/PUBLIC SIGN	EXISTING SIDEWALK SHOULDER AGGREGATE	S

Ohio Environmental Protection Agency 03/25/2024

GENERAL NOTES

THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER'S OFFICE, TELEPHONE (740) 454-0155
FORTY EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON THE PROJECT, HOLIDAYS AND WEEKENDS

AT THE TIME OF THE BID OPENING EACH BIDDER WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO

ALL PROPERTY LINE MARKERS (IRON PINS SPIKES CONCRETE MONLIMENTS ETC.) THAT ARE DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE REFERENCED AND PROPERLY RESET FOLLOWING CONSTRUCTION UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR OF THE STATE OF OHIO AT THE CONTRACTOR'S EXPENSE

ALL MANUFACTURED MATERIALS USED FOR THIS PROJECT MUST BE DOMESTIC AND MADE IN THE U.S.A

ALL SHOP DRAWINGS MUST BE APPROVED BY MUSKINGUM COUNTY WATER DEPARTMENT

MUSKINGUM COUNTY WATER DEPARTMENT IS TO HAVE AN INSPECTOR ON THE JOB SITE AT ALL TIMES WHEN THE CONTRACTOR IS WORKING.

THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED IANUARY 2016 INCLUDING ALL SUPPLEMENTS THERETO IN FORCE ON DATE OF CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE LATEST EDITION OF THE AWWA STANDARDS. SHALL APPLY AS NEEDED AND ARE HEREBY CONSIDERED A PART OF THESE PLANS.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND HAVE IN HIS POSSESSION AN APPROVED AND SIGNED SET OF CONSTRUCTION DRAWINGS. WITHOUT THE REQUIRED PERMITS AND AN APPROVED SET OF PLANS, CONSTRUCTION WILL NOT BE PERMITTED.

TREES ENCOUNTERED DURING CONSTRUCTION OUTSIDE THE RIGHT-OF-WAY LIMITS SHALL BE REMOVED ONLY WHEN NECESSARY AND COSTS OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR

SAFETY REQUIREMENTS

THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK

ALL ITEMS OF WORK 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 SHALL BE INCLUDED IN THE PRICE FOR VARIOUS RELATED ITEMS. IF NO SCHEDULE OF VALUES IS PROVIDED ALL ITEMS OF WORK INDICATED ON THE PLANS ARE TO BE PERFORMED WITH FULL COMPENSATION TO BE INCLUDED IN THE CONTRACT AMOUNT.

ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO FITHER THE CURB SUB DRAIN OR THE STORM SEWER SYSTEM AS DIRECTED BY THE

SURPLUS EXCAVATION:

THE CONTRACTOR SHALL DISPOSE ALL SURPLUS EXCAVATION OFFSITE

TRAFFIC CONTROL

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS." COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 S. FRONT STREET, COLUMBUS, OHIO 43215.

TWO -WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES

ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR VARIOUS ITEMS.

EROSION CONTROL:EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OHIO'S STANDARDS FOR STORM WATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL "RAINWATER AND LAND DEVELOPMENT".

TRACKING OR SPILLAGE OF MUD. DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED

THE PROJECT SITE SHALL BE FREE OF ALL DEBRIS AND MATERIALS RESULTING FROM THIS OPERATION AND ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY RESTORED TO ORIGINAL CONDITION TO THE

EXISTING UTILITIES:

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY AS REQUIRED BY SECTION 153.64 OR SECTION 3781 27 OF THE OHIO REVISED CODE. THE COUNTY AND THE ENGINEER ASSUME NO. RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

THE CONTRACTOR SHALL DESIGNATE FOR EXISTING UTILITIES AROUND ALL PROPOSED. STRUCTURES BEFORE DIGGING TO VERIFY NO CONFLICTS EXIST, WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING DESIGNATION AND/OR CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER, THE COUNTY AND THE ENGINEER

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT (1-800-362-2764) AT LEAST 48 HOURS, AND NO MORE THAN 10 DAYS PRIOR TO EXCAVATING WITH SUCH TIME PERIODS NOT INCLUDING WEEKENDS OR HOLIDAYS. CONTRACTOR SHALL SIMILARLY CONTACT ALL UTILITY OWNERS WHO ARE NOT SUBSCRIBERS TO OUPS.

IF THERE ARE MARKERS OR OTHER APPARENT PHYSICAL EVIDENCE IN OUR NEAR THE PROJECT AREA THAT MAY INDICATE THE EXISTENCE OF UNDERGROUND PETROLEUM OR NATURAL GAS PIPELINES, THE CONTRACTOR SHALL ADDITIONALLY CONTACT THE OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS) AT 800-925-0988. TOLL FREE SAID NOTIFICATION SHALL BE GIVEN A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION

THE FOLLOWING LITILITIES ARE KNOWN OR CAN BE EXPECTED TO BE LOCATED WITHIN THE LIMITS.

UTILITY	<u>OWNER</u>	PHONE NUMBER
GAS/PETROLEUM	ENERGEX POWER INC.	724.622.0093
GAS	ASPIRE ENERGY	740.819.0749
GAS	TEXAS EASTERN GAS TRANSMISSION	713.627.5400
ELECTRIC	GUERNSEY MUSKINGUM ELECTRIC	740.826.7664
WATER	MUSKINGUM COUNTY WATER DEPT	740.453.0678
WATER	CITY OF ZANESVILLE WATER DEPT	740.455.0631
WASTEWATER	MUSKINGUM COUNTY SEWER DEPT	740.452.4940
WASTEWATER	CITY OF ZANESVILLE SEWER DEPT	740.455.0662
COMMUNICATIONS	AT&T OHIO	740 454 3455

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL PROCEED WITH THE WORK AND PROTECT ALL UNDERGROUND UTILITIES IN A MANNER AT LEAST AS CAUTIOUS AND PROTECTIVE OF SAFETY AND UNDERGROUND UTILITIES AS THOSE METHODS IDENTIFIED IN SECTIONS 3781,25 THROUGH 3781,30

ALL MARKED PRIVATE UTILITY REPAIRS OR RELOCATION (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR

ANY REPAIRS OR RELOCATION OF UNMARKED PRIVATE UTILITIES (GAS, ELECTRIC, PHONE, ETC.) SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNER. ANY REPAIRS OR RELOCATION OF UNMARKED PUBLIC UTILITIES SUCH AS WATER SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNER, ANY REPAIRS TO WATER SERVICE LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM SPECIAL WATER SERVICE LINE REPAIR. A QUANTITY OF 20 WATER SERVICE LINE REPAIR UNITS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS PROJECT.

WATER WITHDRAWAL REGISTRATION

THE OHIO DEPARTMENT OF NATURAL RESOURCES REQUIRES A WATER REGISTRATION WHERE SURFACE OR GROUNDWATER IS WITHDRAWN AT A RATE GREATER THAN 100,000 GALLONS PER DAY. THE CONTRACTOR WILL BE REQUIRED TO APPLY FOR AND SUBMIT THE REQUIRED FORM.

STREET, STORM AND WATER NOTES

PERMITS:
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND HAVE IN HIS POSSESSION AN APPROVED AND SIGNED SET OF CONSTRUCTION DRAWINGS. WITHOUT THE REQUIRED PERMITS AND AN APPROVED SET OF PLANS, CONSTRUCTION WILL NOT BE PERMITTED.

UNAUTHORIZED STREET EXCAVATION:

IN THE EVENT EXCAVATION FOR THE STREET IS FROM 0" TO 6" BELOW THAT CALLED FOR THE PLANS. THE CONTRACTOR SHALL REPLACE THIS EXCESS EXCAVATED MATERIAL WITH COMPACTED 304 CRUSHED LIMESTONE AGGREGATE AS DIRECTED AND AT NO EXTRA COST TO THE OWNER OR ENGINEER.

BACKELL REQUIREMENTS:

CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE.

BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. STONES FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE. STONES IN THI

WHERE THE WATER MAINS AND WATER SERVICES CROSS EXISTING PAVEMENT THE TRENCH SHALL BE BACKFILLED IN ACCORDANCE WITH THE DETAILS, AND SHALL BE COMPACTED IN 8-INCH LIFTS, FROM THE BOTTOM OF THE TRENCH TO A PLANE SIX INCHES (6") BELOW THE SUBGRADE. THE LIMITS OF PLACEMENT SHALL EXTEND 1 FOOT BEYOND THE EDGE OF PAVEMENT.

WHERE WATER MAINS RUN PARALLEL WITH THE CENTERLINE OF THE ROADWAY, THE TRENCH SHALL BE BACKFILLED IN ACCORDANCE WITH THE DETAILS FOR CROSSING EXISTING PAVEMENT. LIFT REQUIREMENTS SHALL BE COMPACTED IN 8-INCH INCREMENTS TO WITHIN 6" OF THE EXISTING GRADE. COMPACTION SHALL BE AT LEAST THE DENSITY OF THE SURROUNDING GROUND

BACKFILL OCCURRING UNDER PAVEMENT, SHALL MEET THE REQUIREMENTS OF ODOT SPECIFICATION SUPPLEMENT 1015, COMPACTION TESTING TO VERIEV COMPACTION SHALL BE PAID FOR BY THE "OWNER" ANY BACKELLI WHICH FALLS TO MEET THESE REQUIREMENTS SHALL BE REPLACED AND/OR RE-COMPACTED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR. SEE DETAIL SHEET FOR ADDITIONAL BACKFILL

ROADSIDE SWALE RESTORATION:
WHERE WATER LINE INSTALLATION DISTURBS EXISTING ROADSIDE SWALES, CONTRACTOR SHALL BE REQUIRED TO RESTORE ROADSIDE SWALES TO PRECONSTRUCTION CONDITIONS FOLLOWIN INSTALLATION, COST FOR RESTORATION TO BE INCLUDED IN THE UNIT PRICE FOR WATER LINE

ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE MUSKINGUM. COUNTY WATER AUTHORITY CURRENT RULES AND REGULATIONS. ALL WATER LINE MATERIAL 10 INCH DIAMETER OR LESS SHALL BE PVC AWWA C900, DR-18. IN CASE OF CONFLICT IN GRADE BETWEEN WATER LINES AND STORM SEWERS. THE WATER LINES SHALL BE LOWERED DURING CONSTRUCTION

BACKFILL GROUND OVER THE TOP OF THE PIPE SHALL BE FREE OF ROCKS, ORGANIC REFUSE OR OTHER OBJECTIONABLE MATERIAL. SEE BACKFILL NOTE ABOVE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR CONDUCTING PRESSURE AND LEAKAGE TESTS AT A PRESSURE OF 150 PSI IN ACCORDANCE WITH AWWA COOD THE NORMAL WORKING PRESSURE FOR THE WATER MAIN SHALL BE NOT LESS THAN 35 PSI. TAPPING SLEEVES REQUIRED SHALL BE STAINLESS STEEL. INCLUDING BOLTS AND ACCESSORIES.

WATER MAINS SHALL BE LAID AT LEAST 10 FEFT HORIZONTALLY FROM ANY EXISTING SANITARY OR STORM SEWER, SEPTIC TANK, OR SURFACE TREATMENT SYSTEM. THE DISTANCE SHALL BE MEASURED EDGE TO

WATER MAINS CROSSING SANITARY OR STORM SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER WITH PREFERENCE TO THE WATER MAIN LOCATED ABOVE THE SEWER.

AT CROSSINGS, ON FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY

THE CONTRACTOR SHALL BE MADE RESPONSIBLE FOR HAVING THE WATER MAINS CHLORINATED AND TESTED IN ACCORDANCE WITH AWWA SPECIFICATIONS SECTION C651. THE COST OF CHLORINATION SHALL BE INCLUDED IN THE PRICE BID OF THE VARIOUS WATER MAIN ITEMS. THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF TEST RESULTS TO THE WATER DEPARTMENT. TABLET CHLORINATION SHALL BE USED, THE TABLETS SHALL BE FIXED TO THE PIPE WITH PERMATEX.

SERVICE CONNECTIONS

SERVICES SHALL BE MADE USING FORD F-1100 CORPORATION STOPS. VALVE BOXES SHALL BE MUELLER OR BINGHAM-TAYLOR WITH COVERS MARKED "WATER". NO SUBSTITUTION FOR VALVE BOXES WILL BE PERMITTED UNLESS APPROVED BY THE MUSKINGUM COUNTY WATER DEPARTMENT. THE LOCATION OF THE FND OF THE SERVICE WILL BE MARKED USING A MINIMUM OF 6 FOOT LONG 4 INCH SOLIARE WOOD POLE EXTENDING 3 FEET IN THE GROUND. THE TOP OF THE POLE WILL BE PAINTED BLUE FOR AT LEAST 1 FOOT. SERVICE CONNECTIONS BY CONTRACTOR SHALL BE MADE BY TAPPING THROUGH A SERVICE CLAMP OR SADDLE PROVIDING FULL 360 DEGREE SUPPORT AGAINST THE PIPE. CLAMP AND BOLTS SHALL BE STAINLESS STEEL, WITH MINIMUM 6" BETWEEN BOLT CENTERS. ALL SERVICE LINES MUST GO TO PROPERTY LINE. ALL WATER SERVICE LINES SHALL BE 2" OR LESS, AND SHALL BE 200 PSI C.T.S., TUBING. WATER SERVICE TAP SIZE SHALL BE 3/4". INDIVIDUAL BOOSTER PUMPS SHALL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE

TRACER TAPE.

TRACER TAPE SHALL BE LAID NO LESS THAN 18 INCHES ABOVE THE MAIN LINE PIPE. THE TRACER WIRE SHALL BE MADE OF 12 GALIGE WIRE TO BE INSTALLED AT ALL MAIN LINE LOCATIONS. TRACER WIRE SHALL ALSO BE LAID WITH ALL SERVICE CONNECTIONS. ALL LOCATE WIRE CONNECTIONS WILL HAVE WATER

GATE VALVES SHALL COMPLY WITH AWWA C509, IRON BODY, RESILIENT WEDGE VALVES, MANUFACTURED 2500 SERIES AMERICAN FLOW CONTROL. VALVES WILL BE LOCATED CLOSE TO MAIN LINE VALVE, CLOSE RIGHT TEE'S WHEN IN A BRANCH LINE, SUPPLY ONE VALVE WRENCH FOR EACH 10 VALVES INSTALLED WRENCHES ARE TO BE TURNED OVER TO MUSKINGUM COUNTY WATER DEPARTMENT

VALVE BOXES:

VALVE BOXES SHALL BE LOCATED WITHIN THE R/W AND 6" FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER.

ALL PVC PIPE SHALL BE PROVIDED WITH PUSH-ON-TYPE WITH A THICKENED BELL AND SHALL CONFORM TO

THE FITTINGS SHALL BE DUCTLE IRON MADE IN THE UNITED STATES. CONFORMING TO AWWA C153 SHALL BE PROVIDED WITH MECHANICAL JOINT ENDS (WITH RETAINER GLAND) MADE IN ACCORDANCE WITH AWWA C111. ALL C153 FITTINGS SHALL HAVE A BITUMINOUS COATED CEMENT LINING COMPLYING WITH AWWA C104 AND SHALL HAVE AN OUTSIDE COATING COMPLYING WITH AWWA C110. ANCHORAGE METHODS TO BE USED UTILIZING ANCHORING TEES, ELBOWS AND COUPLINGS SHALL BE APPROVED BY THE ENGINEER. FITTINGS SHALL BE EQUIPPED WITH A ROTABLE GLAND OR OTHER METHOD TO FACILITATE VERTICAL POSITIONING OF APPURTENANCES. ALL BENDS SHALL HAVE CONCRETE THRUST BLOCKING. ALL BOLTS SHALL BE FIELD COATED WITH A BITUMINOUS COATING AFTER IN PLACE.

METER PITS SHALL BE LOCATED AS SHOWN ON THE PLANS, AND SHALL INCLUDE COPPER SETTERS.

METER PITS SHALL BE MIDSTATE 18" X 24"

PITTID SHALL BE 18" X 24" MIDSTATES PLASTIC LID AND WITH MXV BRACKET.

COPPER SETTER SHALL BE FORD 5/8" X 3/4" VH72-18W-44-33.

FIRE HYDRANTS:

FIRE HYDRANTS, IF SPECIFIED IN THE PLANS, SHALL BE 12" HIGH FLOW ONLY. FIRE HYDRANTS OPEN RIGHT, WITH A 6" X 2' ANCHOR COUPLER BETWEEN VALVE AND HYDRANT. ALL FIRE HYDRANTS SHALL BE SET A MINIMUM OF 4' FROM THE EDGE OF THE PAVEMENT. BUT NOT MORE THAN 6' UNI ESS OTHERWISE SHOWN. THE BREAKAWAY FLANGE SHALL BE A MINIMUM OF 3" ABOVE GRADE BUT NO MORE THAN 6" ABOVE GRADE. USE CLASS "A" SETTING WHERE APPLICABLE. CUT CHAINS OFF OF ALL HYDRANTS, LUBE THREADS OF CAPS WITH SUPER LUBE GREASE.

HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY BEFORE AND DURING COLD WEATHER PERIODS WHEN TEMPERATURES ARE LIKELY TO BE COLD ENOUGH TO FREEZE THE WATER IN THE HYDRANT BARREL.

HYDRANT DRAINS, WHERE ALLOWED, SHALL NOT BE LOCATED WITHIN 10 FEET OF SANITARY SEWERS. STORM SEWERS, OR STORM INLETS.

WHERE HYDRANT DRAINS ARE NOT PLUGGED. A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED

HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUNDWATER TABLE.

ALL MANUFACTURED MATERIALS FOR THIS PROJECT ARE TO BE "MADE IN THE U.S.A." OR AS APPROVED BY THE ENGINEER

WATERLINE SPECIFICATIONS:

ACCEPTABLE PIPE & APPURTENANCES
PIPE MATERIAL/PIPE SPECS - PC235 PVC PIPE/DR18/AWWA C900
VALVES/TAPPING SLEEVES - AWWA C500 STOP BOXES/SERVICE BOXES - AWWA C800 DISINFECTION/FI USHING - AWWA C651 INSTALLATION/TESTING AWWA C600, C605

UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE

WATERLINE SYSTEM PRESSURE REQUIREMENTS:

THE SYSTEM SHALL BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI (140 KPA) AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW. THE NORMAL WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHOULD BE APPROXIMATELY 60 TO 80 PSI (410 TO 550 KPA) AND SHALL NOT BE LESS THAN 35 PSI (240 KPA) UNLESS OTHERWISE APPROVED BY THE REVIEWING

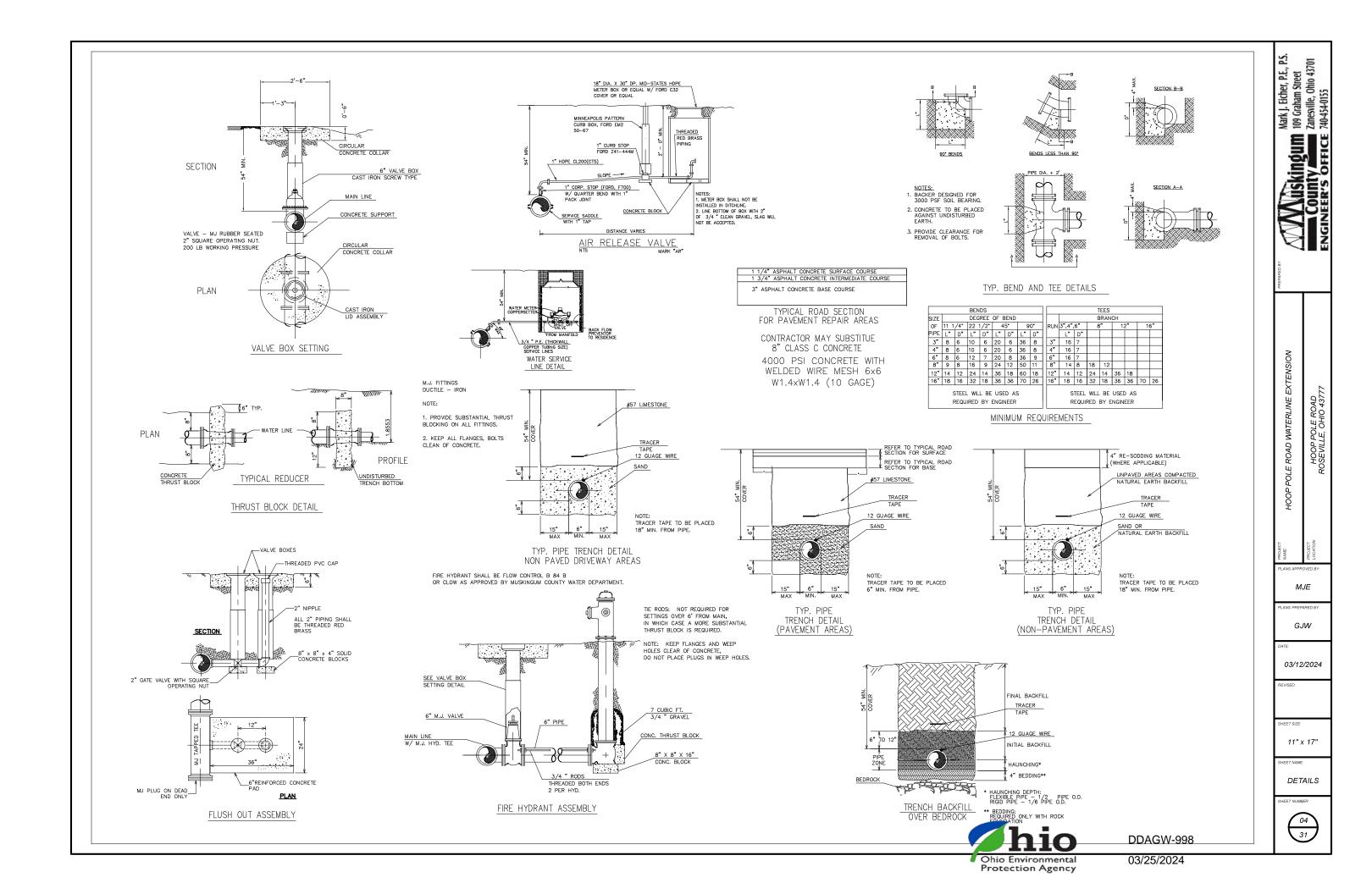
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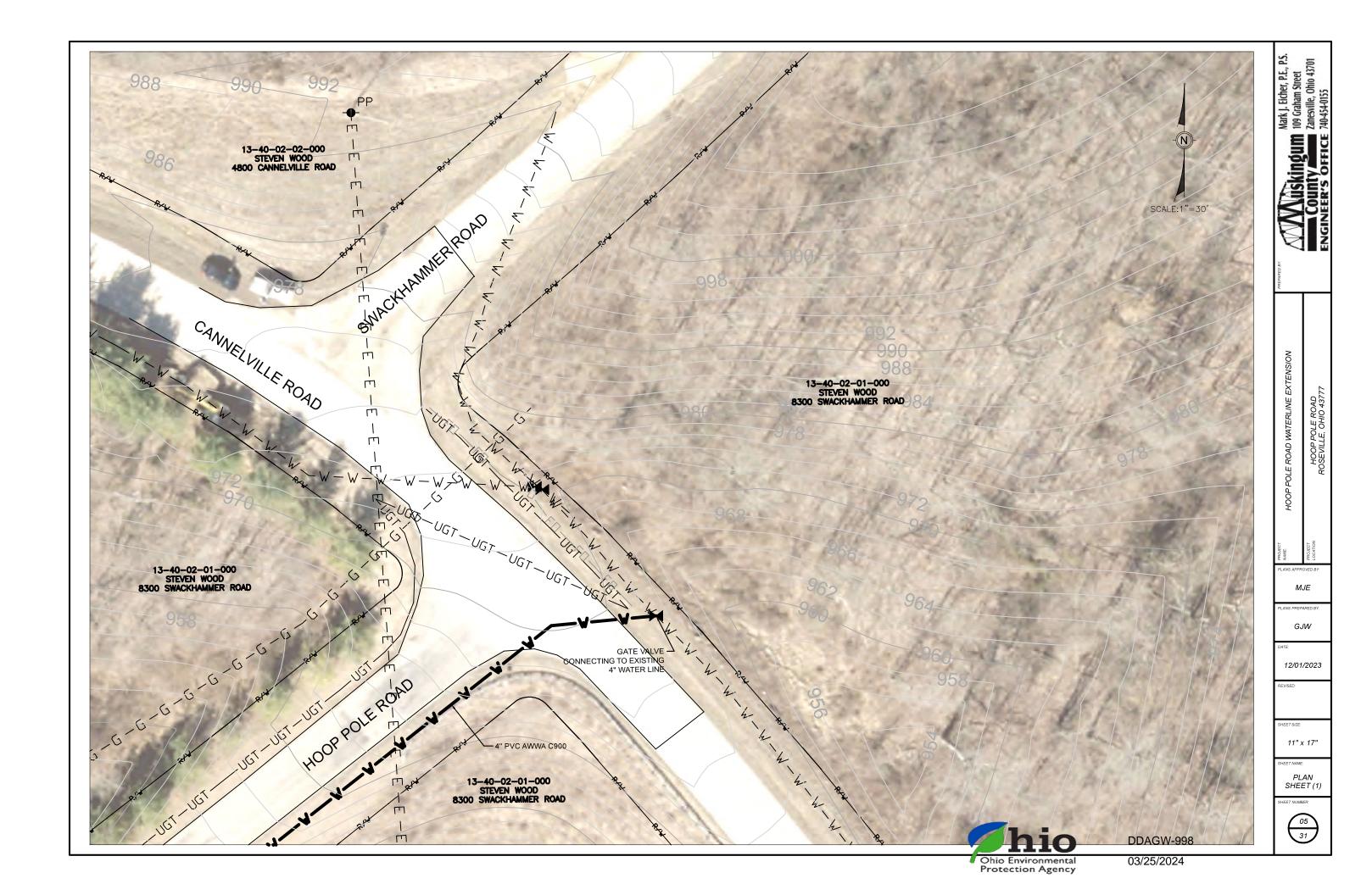
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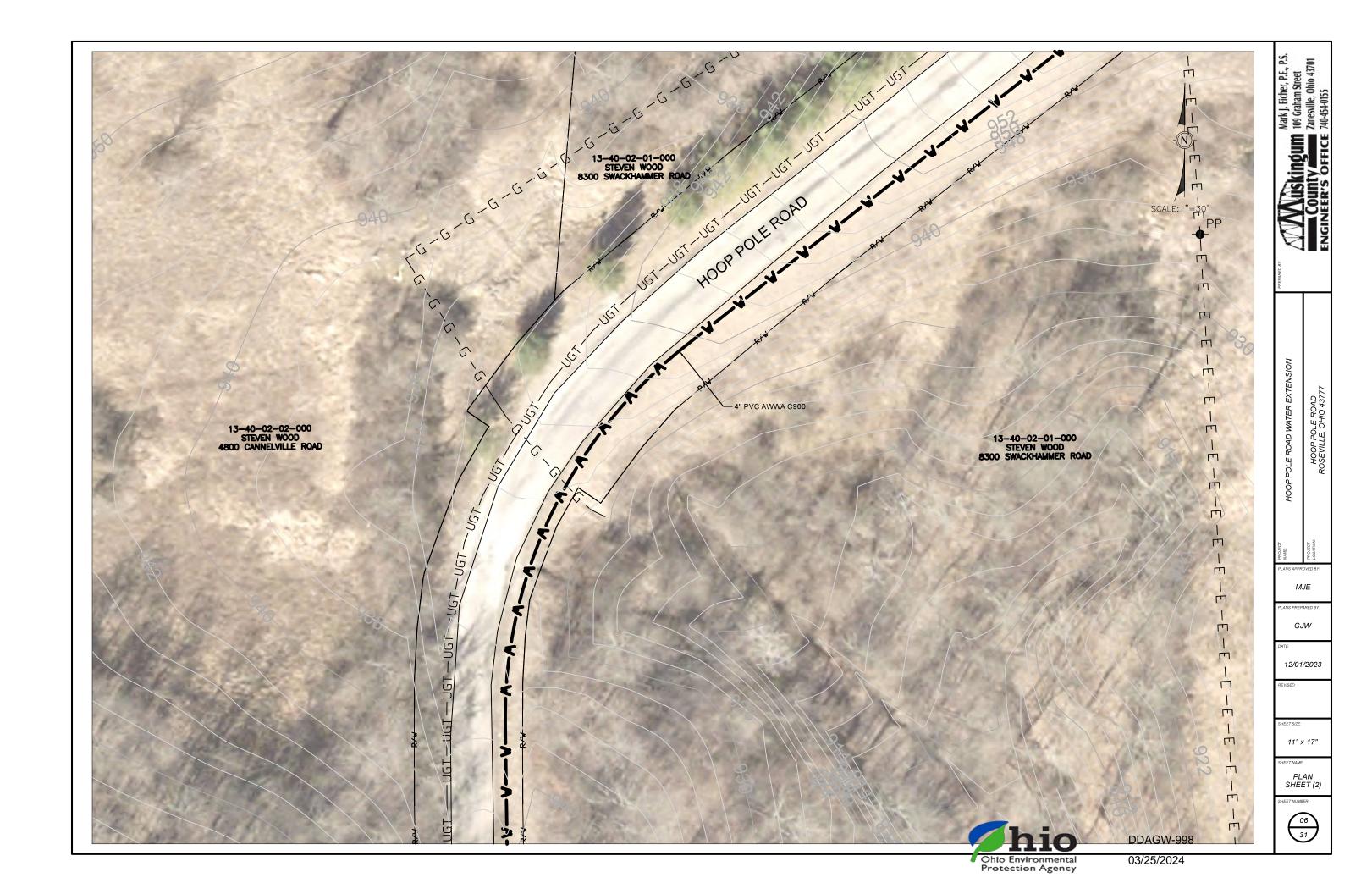
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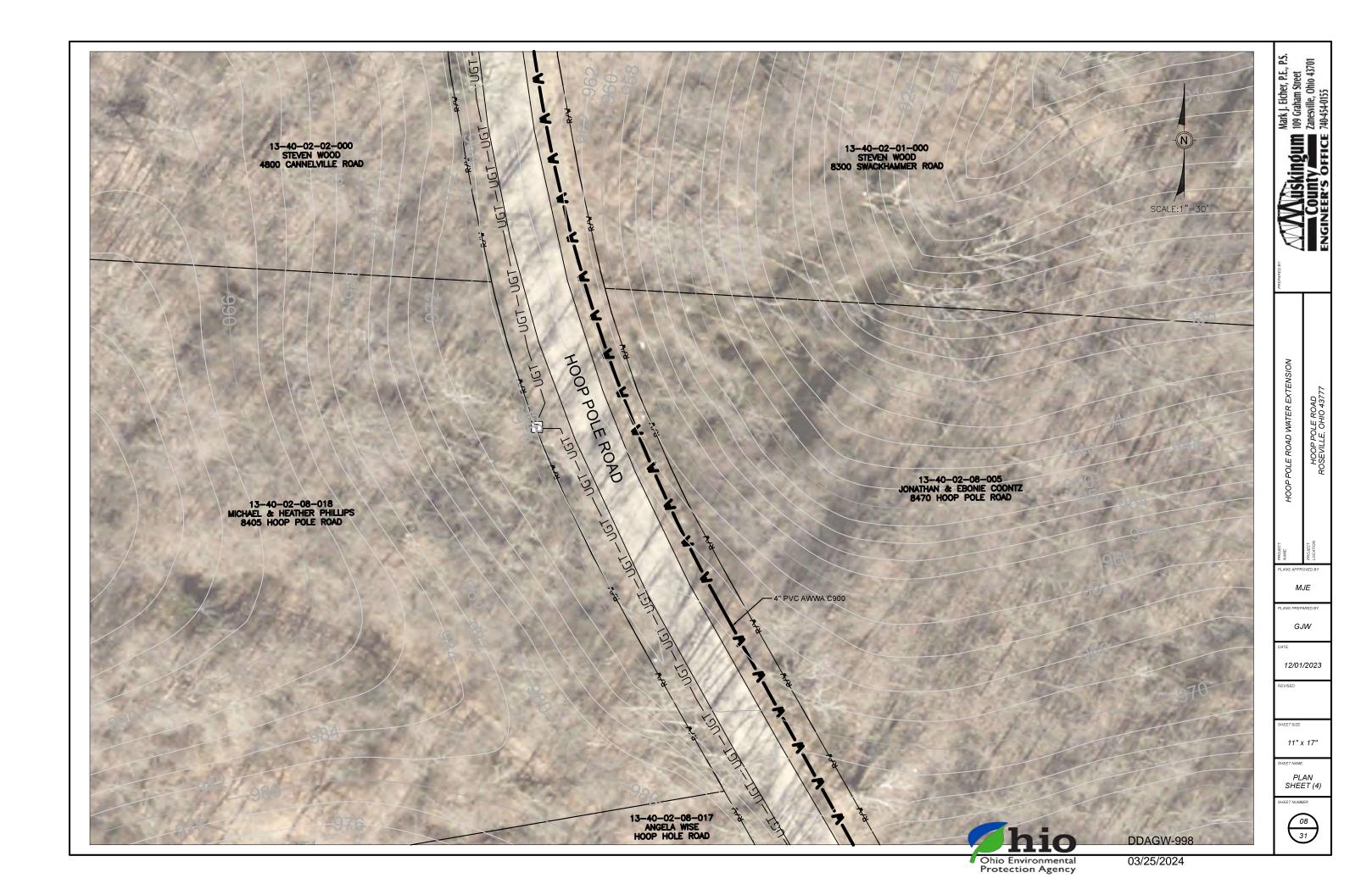
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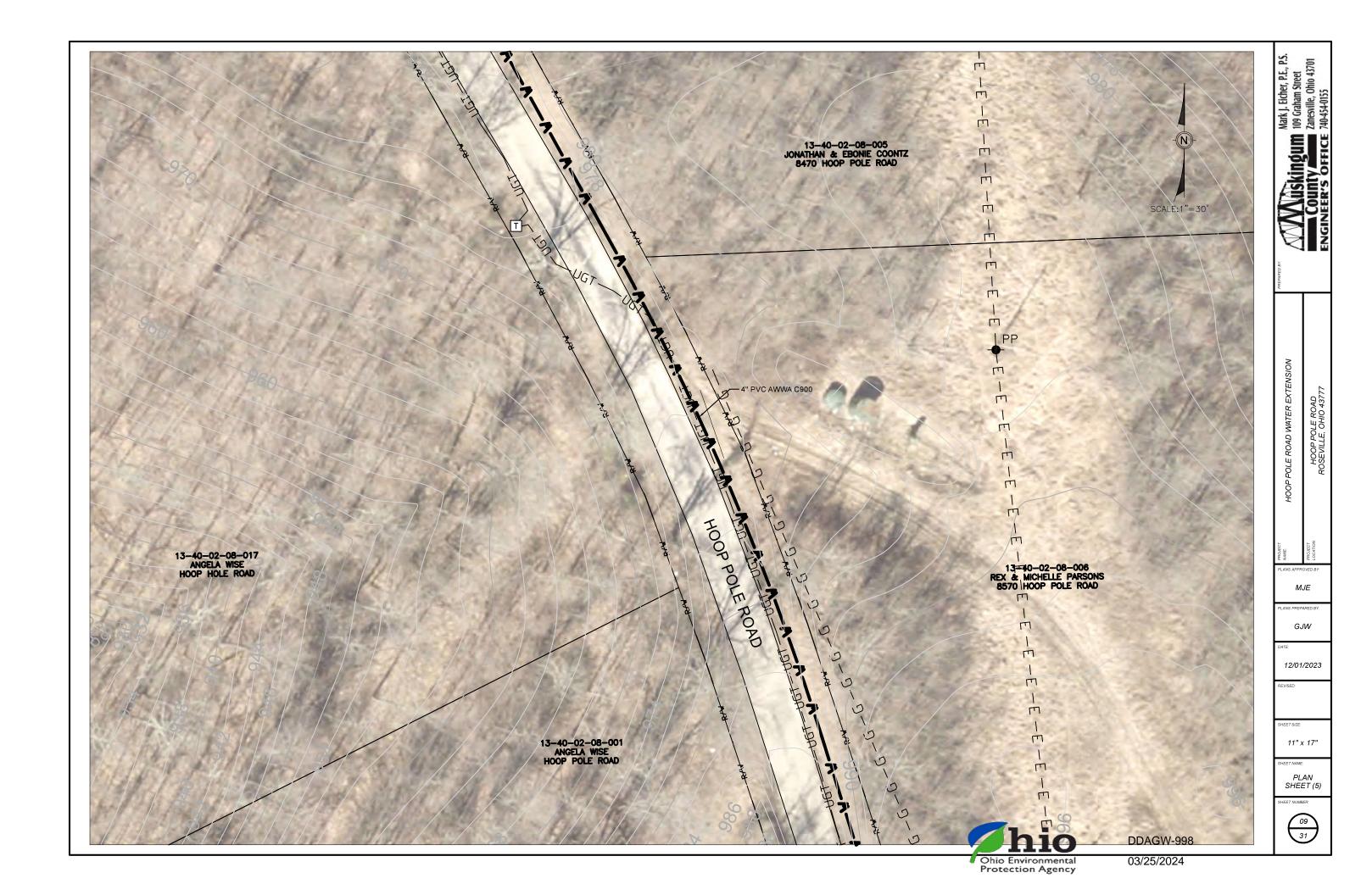


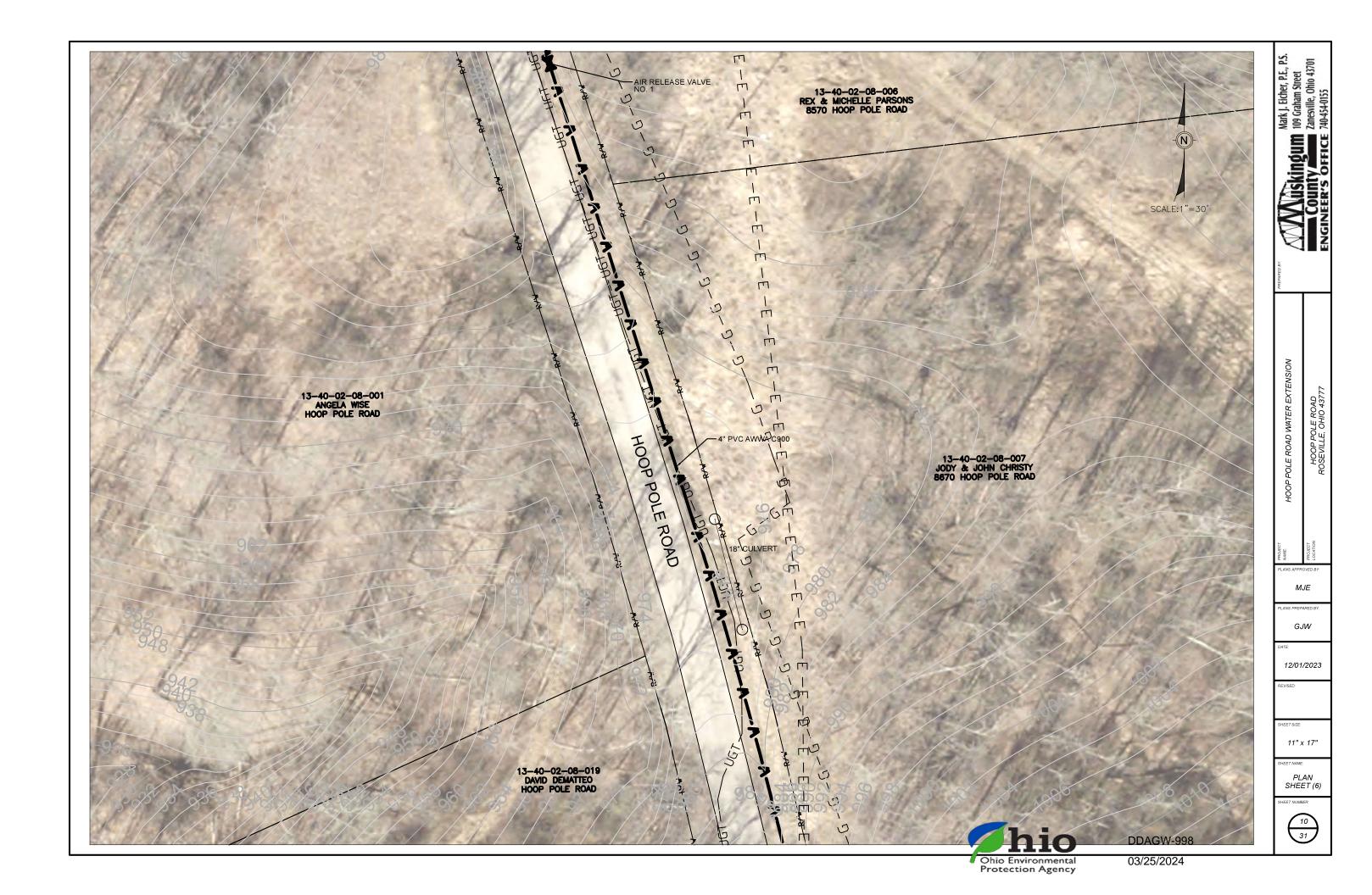


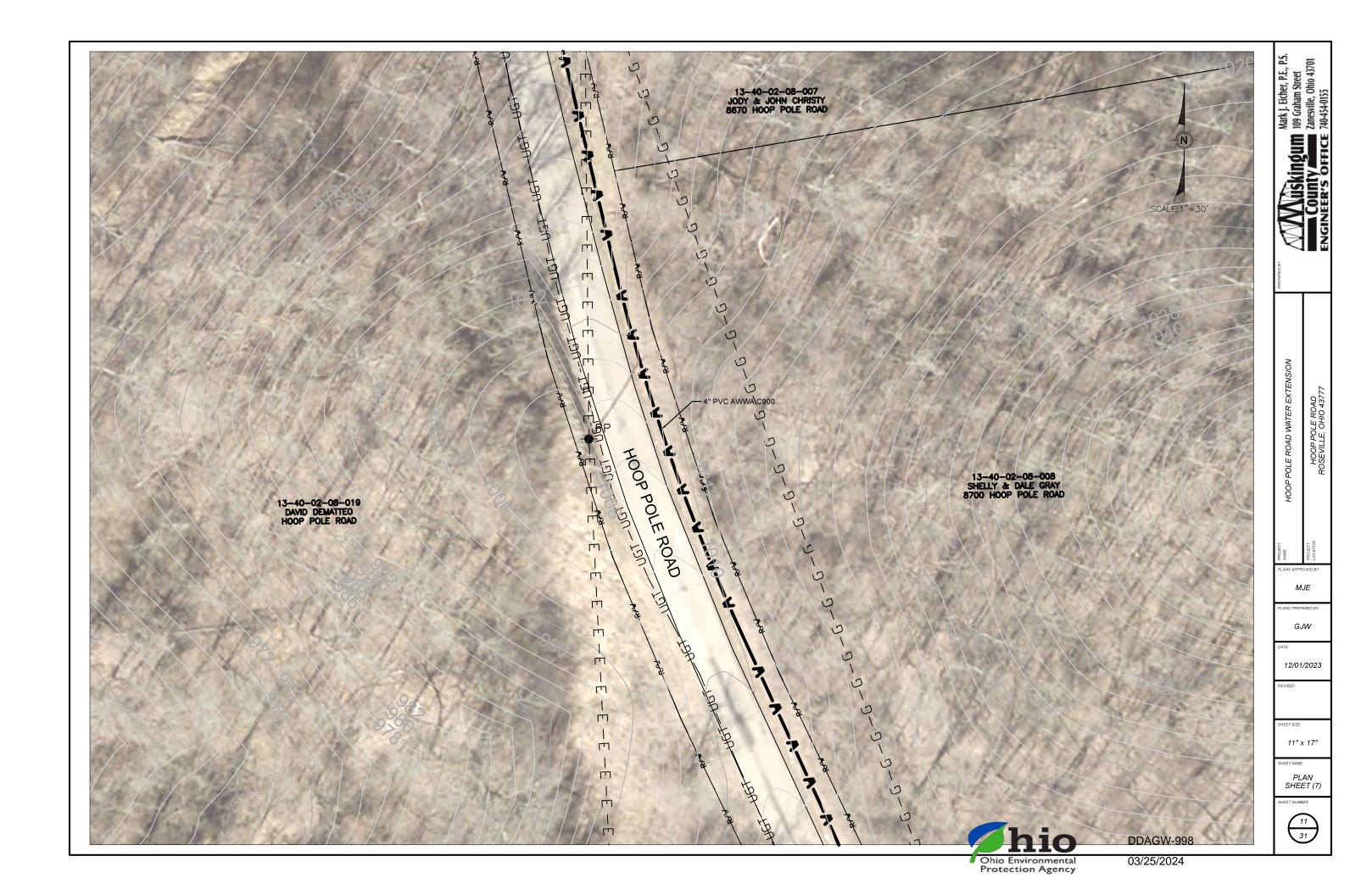


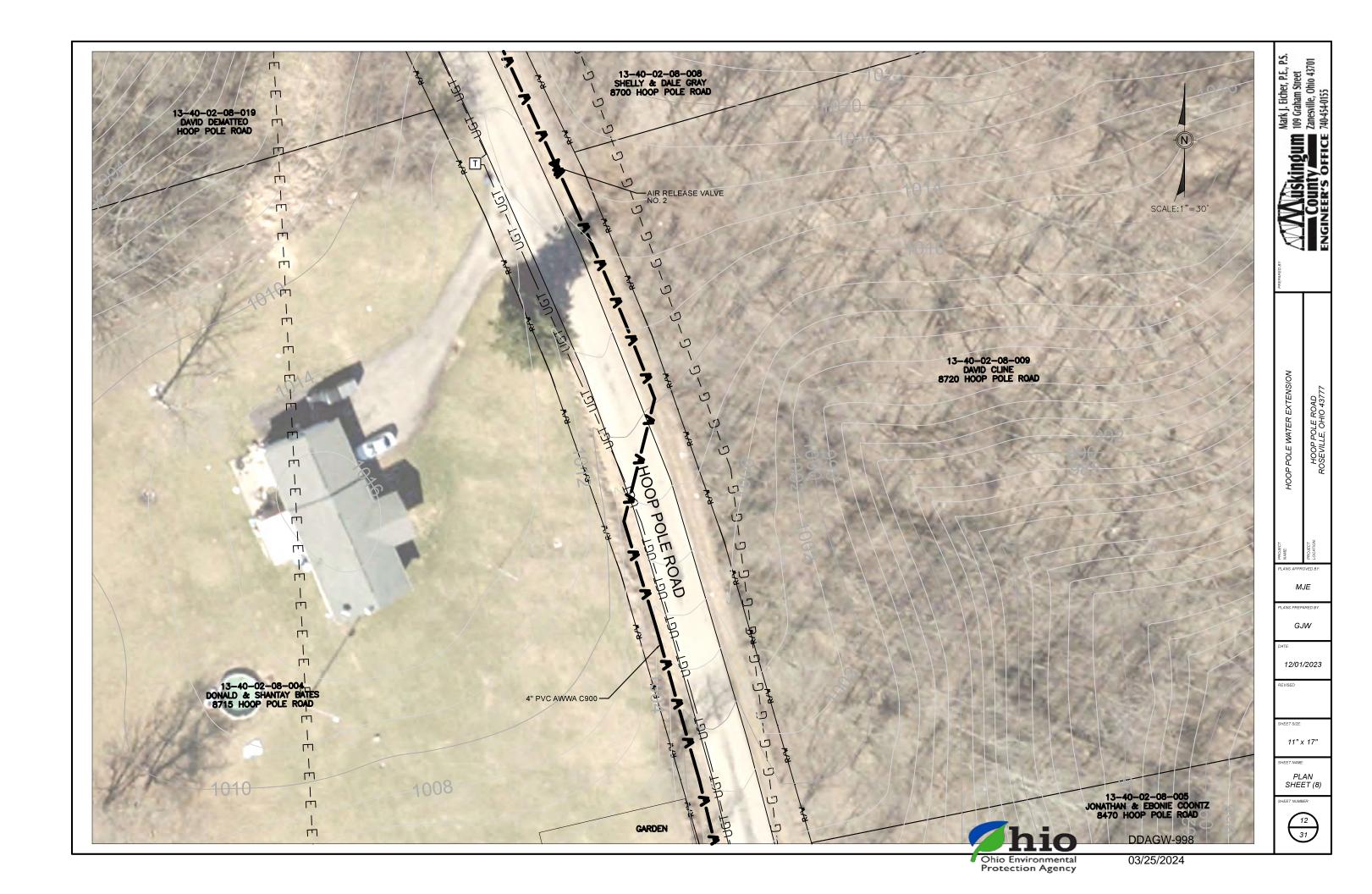




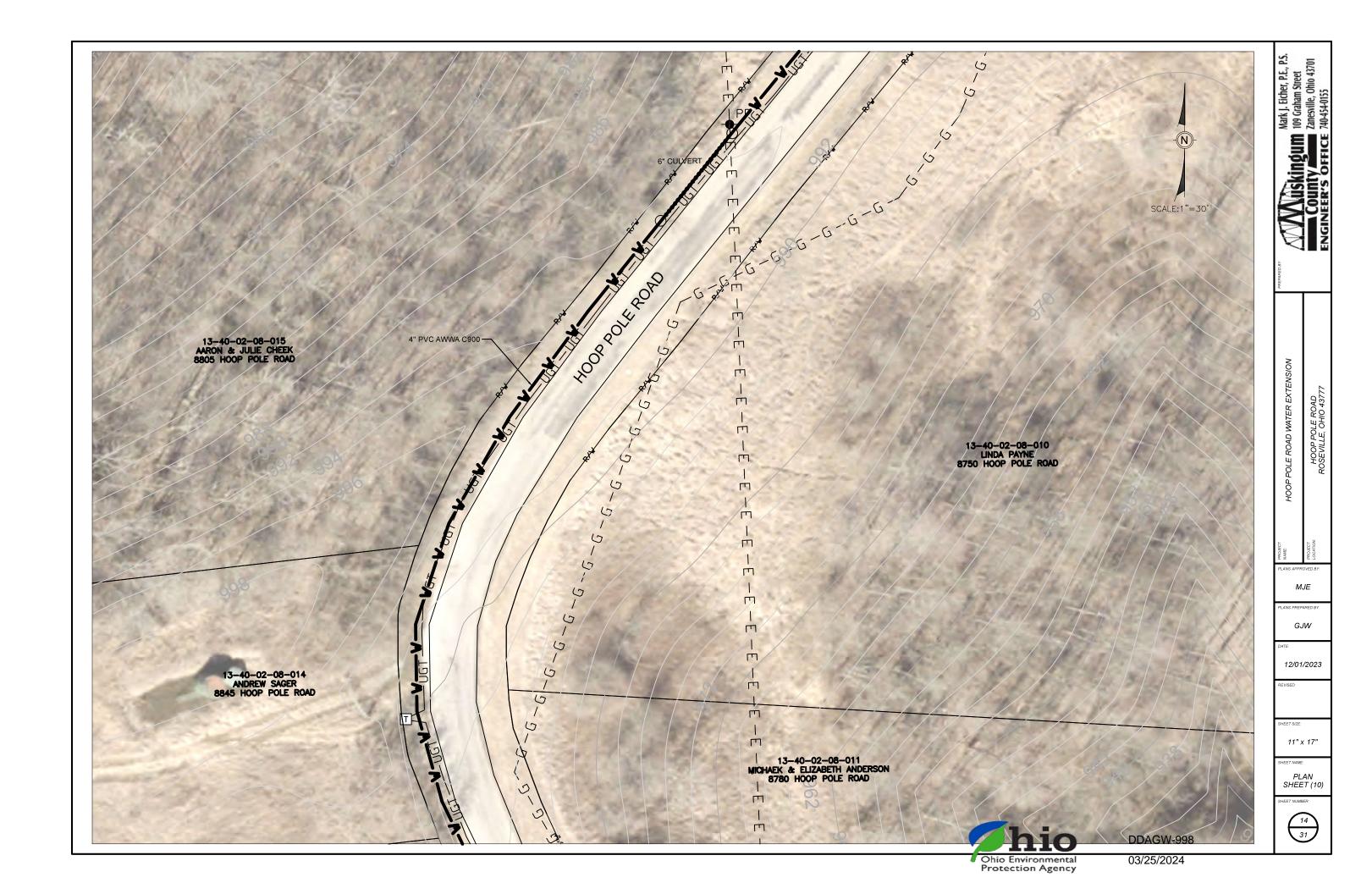




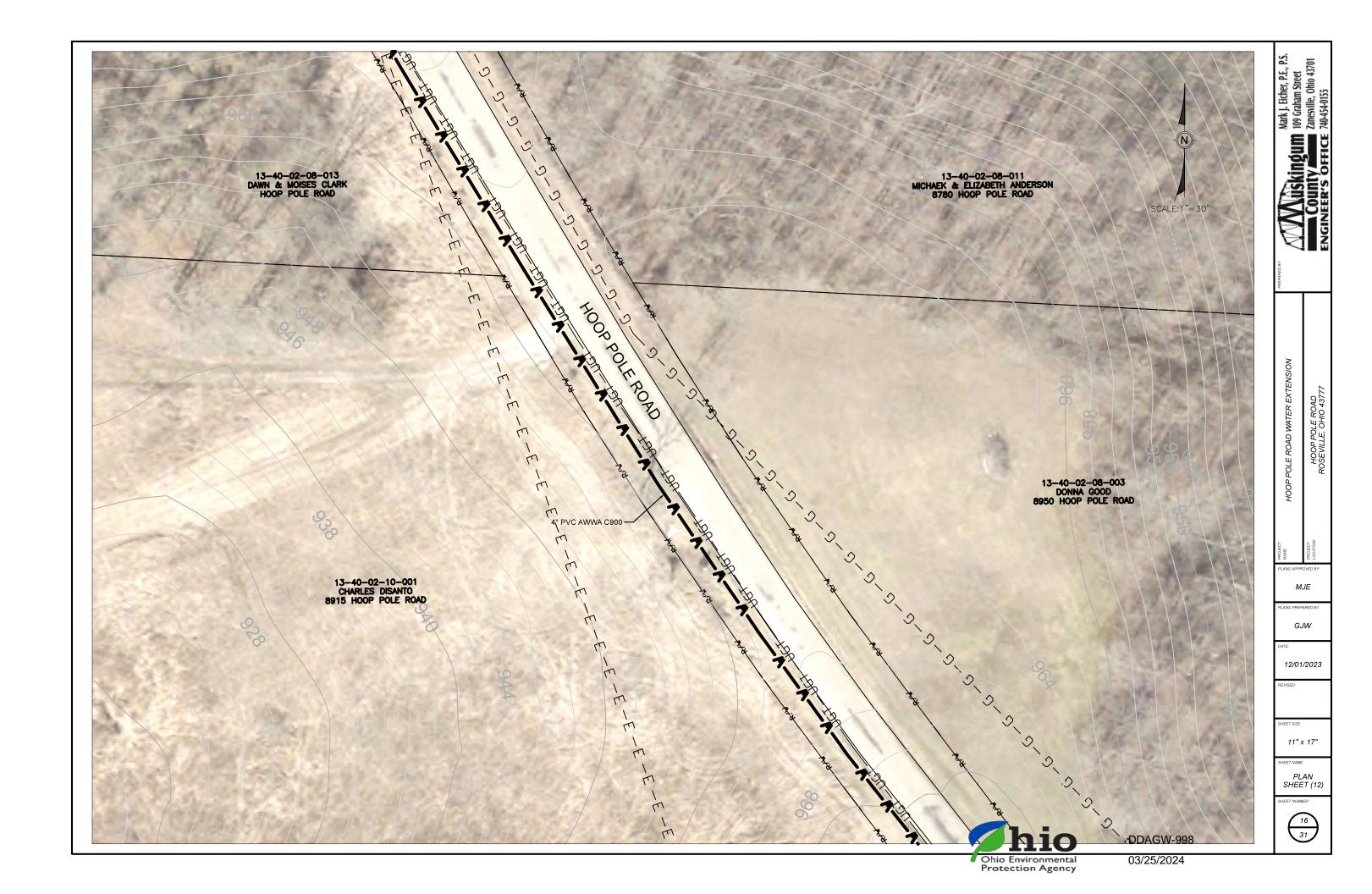


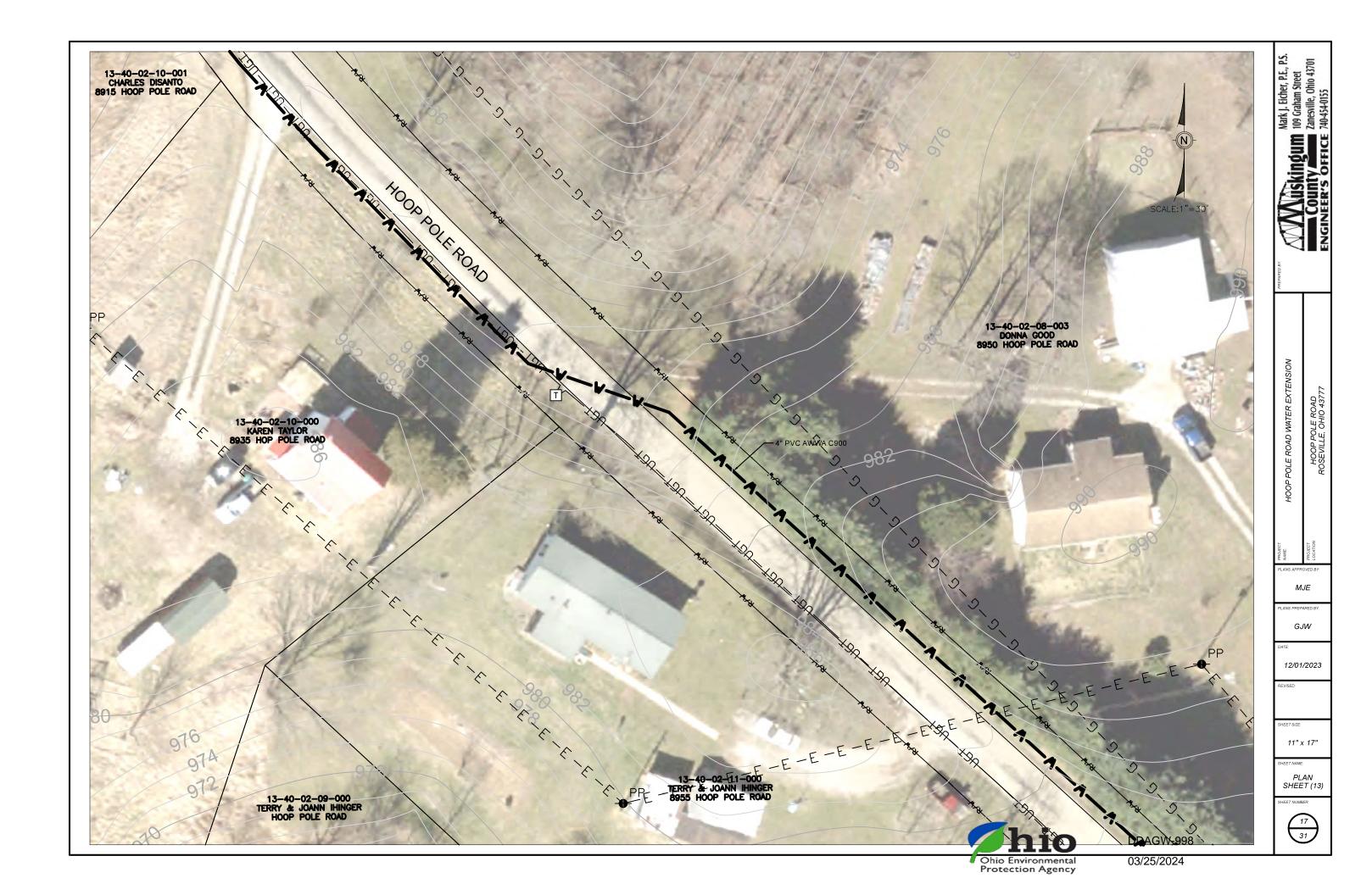


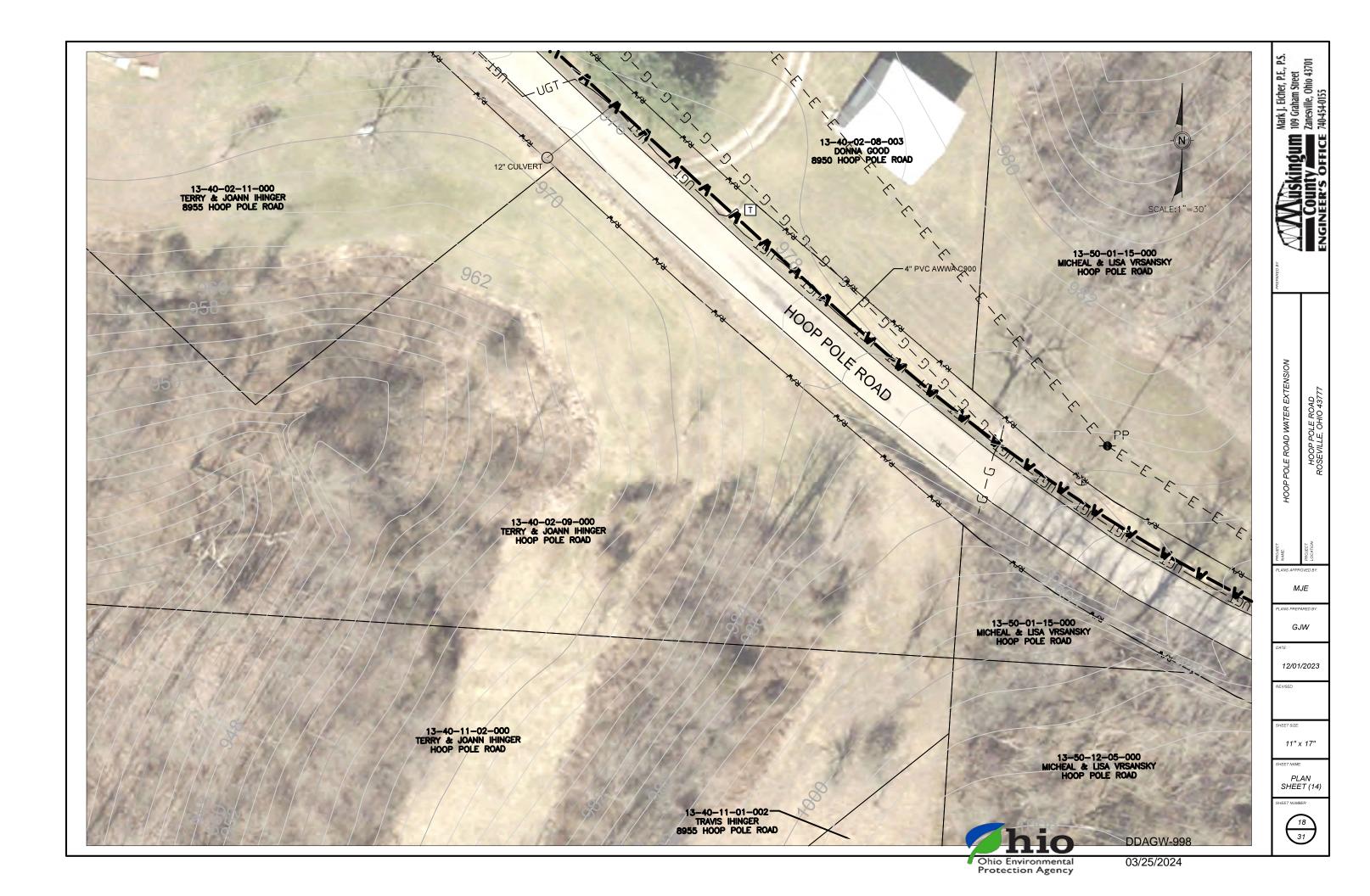


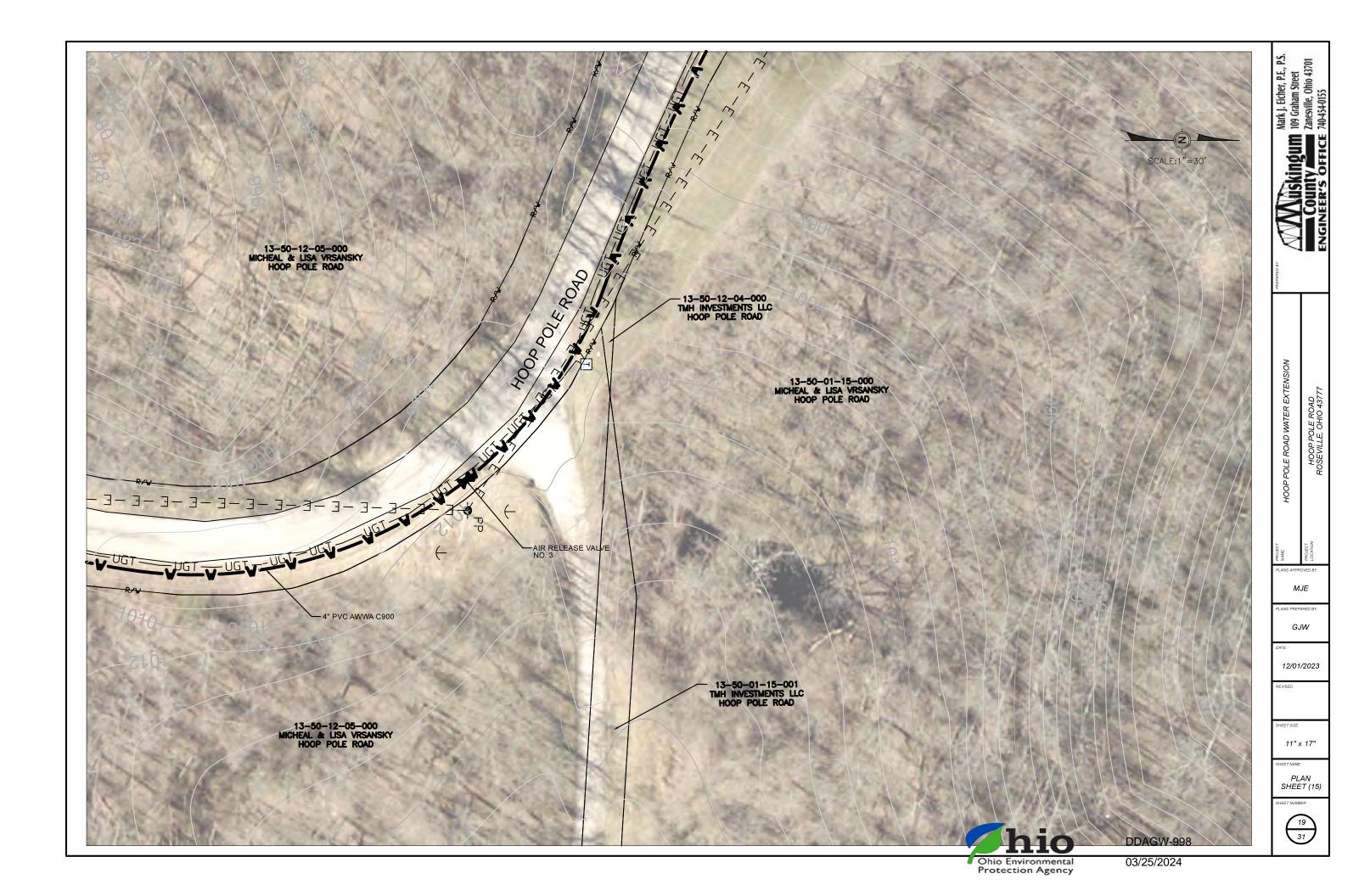














03/25/2024

