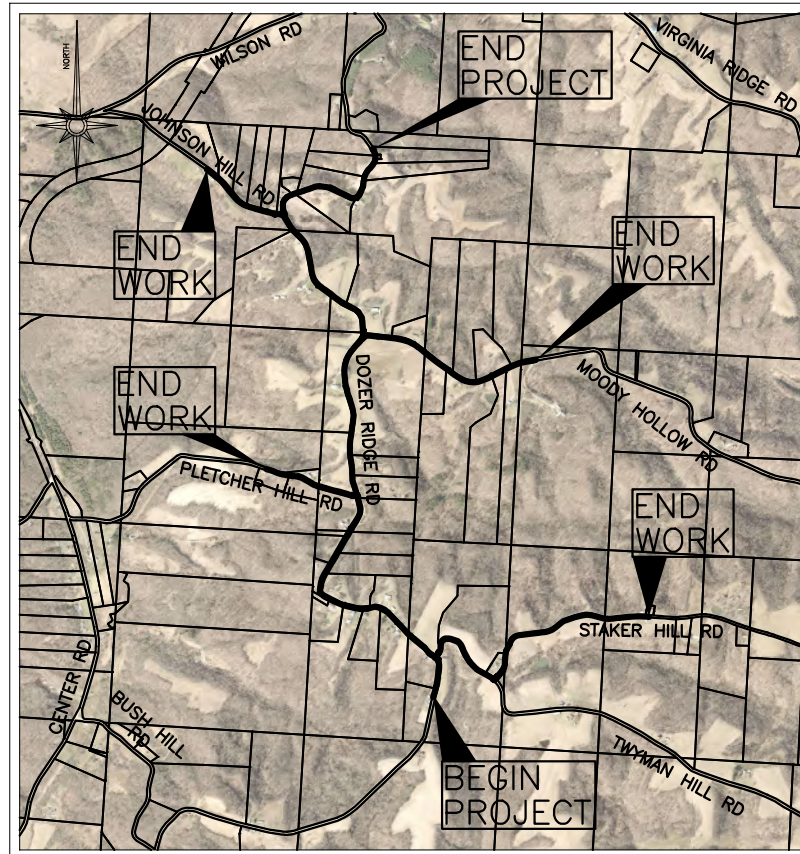


# DOZER RIDGE ROAD WATERLINE EXTENSION

## BRUSH CREEK TOWNSHIP MUSKINGUM COUNTY, OHIO


### PROJECT DESCRIPTION

THE CONSTRUCTION OF A WATERLINE EXTENSION ON DOZER RIDGE RD FROM 9355 DOZER RIDGE RD TO 8248 DOZER RIDGE RD. ALSO, INCLUDES WATERLINE IMPROVEMENTS ON JOHNSON HILL RD, MOODY HOLLOW RD, PLETCHER HILL RD, TWYMAN HILL RD, AND STAKER HILL RD.



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MELISSA J. BELL, PRESIDENT  
MUSKINGUM COUNTY COMMISSIONER

04.05.25

DATE

CINDY S. CAMERON  
MUSKINGUM COUNTY COMMISSIONER

DATE



DRAKE L. PROUTY  
MUSKINGUM COUNTY COMMISSIONER

6-5-25

DATE

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

CONTACT PERSON:  
DON MADDEN, PROJECTS DIRECTOR  
401 MAIN STREET  
ZANESVILLE, OHIO 43701  
(740)588-4389

### 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 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.

### UNDERGROUND UTILITIES

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

### ENGINEER'S SEAL:



SIGNED:   
DATE: \_\_\_\_\_

Mark J. Eicher, P.E., P.S.  
109 Graham Street  
Zanesville, Ohio 43701  
740-454-0155  
**Muskingum County**  
**ENGINEER'S OFFICE**

DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT NAME

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

05/29/2025

REVISED:

SHEET SIZE:

11" x 17"

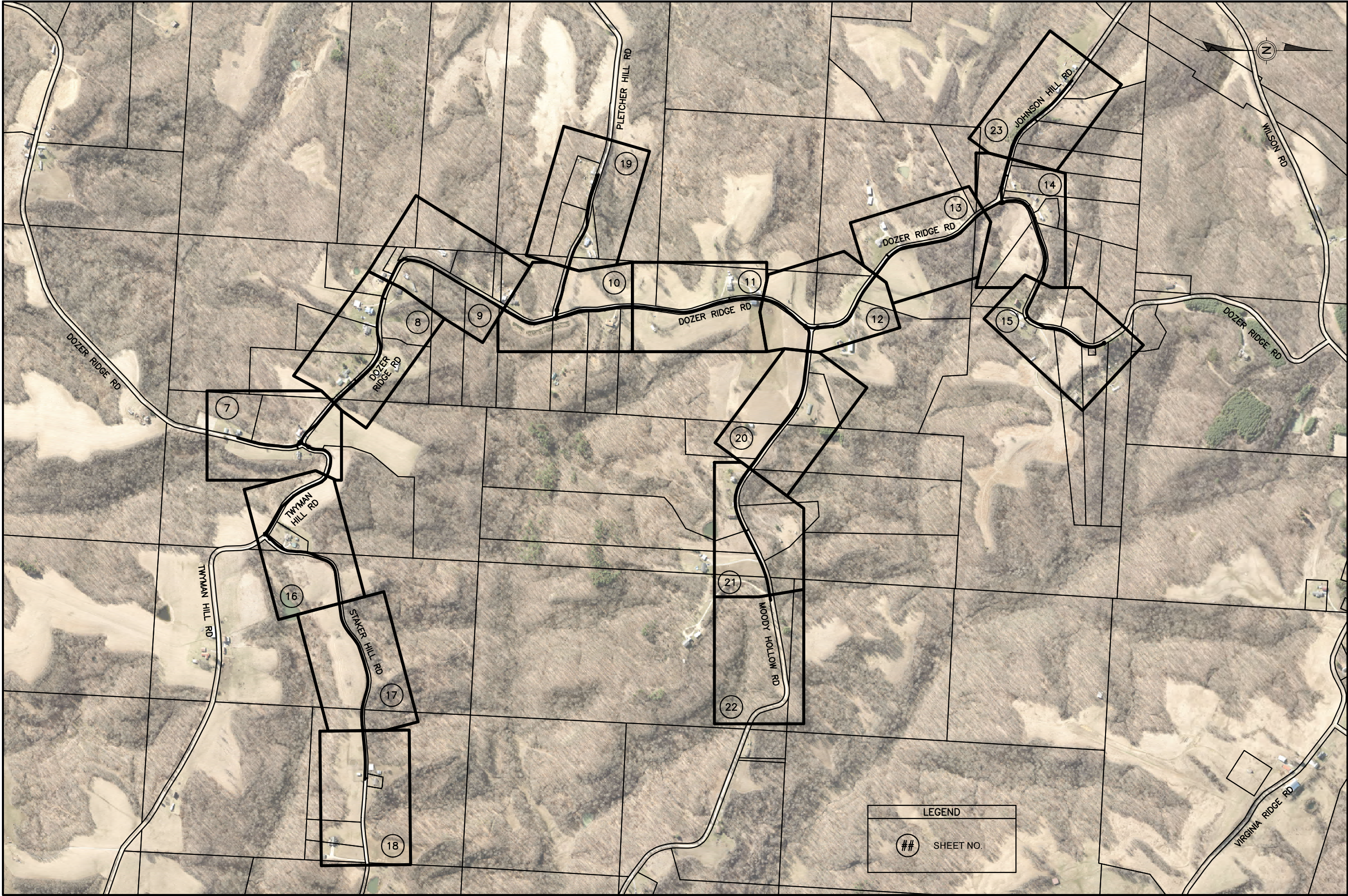
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TITLE SHEET

SHEET NUMBER:

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PREPARED BY:

Mark J. Eicher, P.E., P.S.  
109 Graham Street  
Zanesville, Ohio 43701  
740-454-0155

PROJECT NAME:

DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION:

BLUE ROCK, OHIO 43720

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

05/29/2025

REVISED:

SHEET SIZE:

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SHEET NAME:

INDEX SHEET











































































SHEET NUMBER:

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ENGINEERING

ENGINEER'S OFFICE



	LIGHT POLE		EXISTING FIRE HYDRANT		EXISTING GAS VALVE		EXISTING ELECTRIC RISER/PULL BOX		STOP CHECK VALVE	<div>LINE TYPES</div> <div>-W-W-W-W-W-W-W-W-W- EXISTING WATER LINE</div> <div>-S-S-S-S-S-S-S-S-S- EXISTING SANITARY LINE</div> <div>-E-E-E-E-E-E-E-E-E- EXISTING OVERHEAD ELECTRIC LINE</div> <div>— UGE ——— UGE ——— EXISTING UNDERGROUND ELECTRIC</div> <div>-G-G-G-G-G-G-G-G-G- EXISTING GAS LINE</div> <div>— T - T - T - T - T - T — EXISTING OVERHEAD TELECOM LINE</div> <div>— UGT ——— UGT ——— EXISTING UNDERGROUND TELECOM</div> <div>-U-U-U-U-U-U-U-U-U- EXISTING UTILITY LINE</div> <div>————— EXISTING UNDERDRAIN</div> <div>-V-V-V-V-V-V-V-V-V- EXISTING VEGETATION</div> <div>—X—X—X—X—X—X— EXISTING FENCE</div> <div>-ST—ST—ST—ST—ST— EXISTING STORM LINE</div> <div>- - - - - EXISTING SIDEWALK</div> <div>- - - - - EXISTING SHOULDER</div> <div>————— EXISTING RIGHT OF WAY</div> <div>— XL/A ——— XL/A ——— EXISTING LIMITED ACCESS</div> <div>— XRR ——— XRR ——— EXISTING RAILROAD RIGHT OF WAY</div> <div>————— PROPOSED WATER LINE</div> <div>————— PROPOSED SANITARY LINE</div> <div>— FM ——— FM ——— PROPOSED FORCEMAIN</div> <div>— AFM ——— AFM ——— ABANDONED FORCEMAIN</div> <div>-F-F-F-F-F-F-F-F-F- PROPOSED FENCE</div> <div>————— PROPOSED STORM LINE</div> <div>— S/W ——— S/W ——— PROPOSED EASEMENT</div>
	LIGHT/POWER POLE		PROPOSED FIRE HYDRANT		PROPOSED GAS VALVE		PROPOSED ELECTRIC RISER/PULL BOX		EXISTING MAILBOX	
	POWER POLE	 OR 	EXISTING WATER GATE VALVE		EXISTING GAS SERVICE STOP		EXISTING ELECTRIC METER		PROPOSED MAILBOX	
	POWER POLE	 OR 	PROPOSED WATER GATE VALVE		PROPOSED GAS SERVICE STOP		PROPOSED ELECTRIC METER		MAILBOX	
	TELECOM POLE		PROPOSED AIR RELEASE VALVE		EXISTING GAS LINE VENT		EXISTING ELECTRIC MANHOLE		EXISTING TREE	
	LIGHT/TELECOM POLE	 OR 	EXISTING WATER METER		EXISTING SANITARY SEWER MANHOLE		PROPOSED ELECTRIC MANHOLE		EXISTING EVERGREEN TREE	
	TELECOM/LIGHT/POWER POLE		PROPOSED WATER METER	 	PROPOSED SANITARY SEWER MANHOLE		EXISTING TELECOM MANHOLE		EXISTING SHRUB	
	UNKNOWN POLE		EXISTING WATER MANHOLE		EXISTING SEPTIC TANK		PROPOSED TELECOM MANHOLE		EXISTING STONE FOUND	
	SIGN POLE		PROPOSED WATER MANHOLE		PROPOSED SEPTIC TANK		EXISTING TELEPHONE PEDESTAL		EXISTING LARGE ROCK	
	GUY WIRE ANCHOR		EXISTING CATCH BASIN NO. 2 - 2B		EXISTING SEWER PUMP STATION		PROPOSED TELEPHONE PEDESTAL		GRINDER PUMP	
	CELLPHONE TOWER		PROPOSED CATCH BASIN NO. 2 - 2B		EXISTING SANITARY SEWER VALVE		EXISTING UNKNOWN PULL BOX		SPRING DEVELOPED	
	EXISTING TOWER		EXISTING GAS METER		PROPOSED SANITARY SEWER VALVE		EXISTING UNKNOWN MANHOLE		SIGNAL PEDESTAL	
	HALF HEADWALL		PROPOSED GAS METER		EXISTING SANITARY SEWER LINE VENT		EXISTING UNKNOWN UTILITY VALVE		PRIVATE/PUBLIC SIGN	
	HEADWALL		EXISTING GAS MANHOLE		CLEAN OUT		PLUG VALVE			
			PROPOSED GAS MANHOLE							

Mark J. Eichler, P.E., P.S.  
109 Graham Street  
Zanesville, Ohio 43701

PREPARED BY

PROJECT NAME

PROJECT LOCATION

DOZER RIDGE ROAD WATERLINE EXTENSION

BLUE ROCK, OHIO 43720

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

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05/29/2025

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

SYMBOLS & LINE STYLES

SHEET NUMBER:

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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 EXCLUDED.

AT THE TIME OF THE BID OPENING EACH BIDDER WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND TO BE THOROUGHLY FAMILIAR WITH THE PLANS AND CONTRACT DOCUMENTS.

ALL PROPERTY LINE MARKERS (IRON PINS, SPIKES, CONCRETE MONUMENTS, 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.

SPECIFICATIONS:

THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 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.

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.

TREES:

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 THE VARIOUS ITEMS.

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.

MISCELLANEOUS 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.

FIELD TILE:

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

SURPLUS EXCAVATION:

THE CONTRACTOR SHALL DISPOSE OF 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 IMMEDIATELY.

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 SATISFACTION OF THE OWNER.

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 UTILITIES ARE KNOWN OR CAN BE EXPECTED TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

UTILITY	OWNER	PHONE NUMBER
GAS/PETROLEUM	DIVERSIFIED GAS & OIL	330.493.0440
GAS/PETROLEUM	NATIONAL GAS & OIL	740.344.2102
GAS/PETROLEUM	PETRO QUEST, INC.	740.554.5888
GAS	COLUMBIA GAS OF OHIO	740.450.1215
ELECTRIC	AEP	614.716.1000
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
COMMUNICATIONS	CHARTER/SPECTRUM COMMUNICATIONS	888.438.2427
COMMUNICATIONS	AEP TELECOM	800.672.2231

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 OF THE OHIO REVISED CODE.

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.

BACKFILL - WATER MAINS & WATER SERVICES:

WHERE WATER MAINS AND WATER SERVICE INSTALLATIONS CROSS EXISTING PAVEMENT AT AN ANGLE OR RUN PARALLEL WITH THE EDGE OF EXISTING PAVEMENT VIA OPEN TRENCH METHODS, THE TRENCH SHALL BE BACKFILLED IN ACCORDANCE WITH TRENCH DETAILS INCLUDED ON THE DETAIL SHEETS.

ROADSIDE SWALE RESTORATION:

WHERE WATER LINE INSTALLATION DISTURBS EXISTING ROADSIDE SWALES, CONTRACTOR SHALL BE REQUIRED TO RESTORE ROADSIDE SWALES TO PRE-CONSTRUCTION CONDITIONS FOLLOWING INSTALLATION. COST FOR RESTORATION TO BE INCLUDED IN THE UNIT PRICE FOR WATER LINE.

WATER MAINS:

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" DIAMETER OR LESS SHALL BE PVC AWWA C900, DR-18. IN CASE OF CONFLICT IN GRADE BETWEEN WATER LINES AND STORM SEWERS, CONTACT OWNER FOR CONCURRENCE BEFORE LOWERING WATER LINES.

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 C600 OR 1 1/2 TIMES WORKING PRESSURE. THE NORMAL WORKING PRESSURE FOR THE WATER MAIN SHALL NOT BE LESS THAN 35 PSI. ANY TAPPING SLEEVES REQUIRED SHALL BE STAINLESS STEEL. INCLUDING BOLTS AND ACCESSORIES.

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

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 BE REQUIRED.

CHLORINATION OF WATER MAINS:

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. OWNER WILL ALSO SAMPLE WATER MAINS FOR PROPER CHLORINATION.

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 END OF THE SERVICE WILL BE MARKED AS DIRECTED BY THE MUSKINGUM COUNTY WATER DEPARTMENT.

SERVICE CONNECTIONS BY CONTRACTOR SHALL BE MADE BY TAPPING THROUGH A SERVICE CLAMP OR SADDLE PROVIDING FULL 360° 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". WHEN SERVICES MUST CROSS ROADWAYS, UTILIZE HORIZONTAL DIRECTIONAL DRILLING METHODS TO INSTALL 3/4" HDPE (DR 9) 250 PSI C.T.S. SERVICE TUBING.

TRACER TAPE:

TAPE SHALL BE LAID NO LESS THAN 18" ABOVE THE MAIN LINE PIPE. FOIL-BASED TAPE WILL NOT BE ALLOWED.

TRACER WIRE:

TRACER WIRE SHALL BE TAPED TO THE TOP OF WATER MAINS AND SERVICE CONNECTIONS. TRACER WIRE USED SHALL BE COPPERHEAD WIRE OR APPROVED EQUAL AND BE MADE OF 12 GAUGE WIRE. TRACER WIRE USED AT DIRECTIONAL DRILL (BORE) LOCATIONS SHALL BE COPPERHEAD WIRE SPECIFIED FOR DIRECTIONAL DRILLING OR APPROVED EQUAL. ALL LOCATE TRACER WIRE CONNECTIONS WILL HAVE WATER TIGHT WIRE NUTS.

VALVES:

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.

JOINTS:

ALL PVC PIPE SHALL BE PROVIDED WITH PUSH-ON-TYPE WITH A THICKENED BELL AND SHALL CONFORM TO ASTM D 3139 WITH A RUBBER GASKET CONFORMING TO ASTM F477.

FITTINGS:

THE FITTINGS SHALL BE DUCTILE 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:

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

METER PITS SHALL BE MIDSTATE 18" X 24".

PIT LID SHALL BE 18" X 15" WITH HOLE FOR TOUCH READ DEVICE.

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

FIRE HYDRANTS:

FIRE HYDRANTS 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' UNLESS 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.

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

WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE.

MANUFACTURER:

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 - 3 IN: PVC PIPE/DR21/ASTM D2241, HDPE IPS/DR 11/ AWWA C906; 4 IN: PVC PIPE/DR 18/AWWA C900, HDPE IPS/DR 11/AWWA C906  
VALVES/TAPPING SLEEVES - AWWA C500  
STOP BOXES/SERVICE BOXES - AWWA C800  
DISINFECTION/FLUSHING - AWWA C651  
INSTALLATION/TESTING AWWA C600, C605

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 AUTHORITY.

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109 Graham Street  
Zanesville, Ohio 43701

Muskingum County  
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:  
DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION:  
BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
GJW

DATE:  
06/05/2025

REVISED:

SHEET SIZE:  
11" x 17"

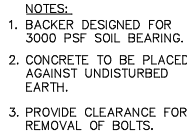
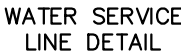
SHEET NAME:  
GENERAL NOTES

SHEET NUMBER:  
04  
23





## VALVE BOX SETTING



TYP. BEND AND TEE DETAILS

STEEL WILL BE USED AS  
REQUIRED BY ENGINEER

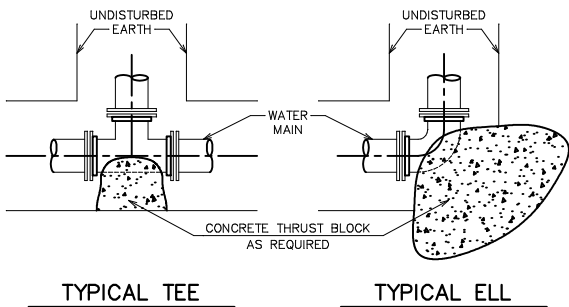
## MINIMUM REQUIREMENTS

- ## THRUST BLOCK NOTES
- 1) KEEP CONCRETE CLEAR OF JOIN AND ACCESSORIES.
  - 2) CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
  - 3) REQUIRED BEARING AREAS AT FITTINGS SHALL BE AS INDICATED BELOW, ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIFICATIONS.
  - 4) BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 100 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 1,000 LBS./SQ. FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:  $\text{BEARING} = (\text{TEST PRESS.}/100) \times (1000/\text{SOIL BEARING STRESS}) \times (\text{TABLE VALUE}).$
  - 5) THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
  - 6) BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
  - 7) BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ. FT.

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS, 100 PSI PRESSURE)					
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	BEND ANGLE		
			45°	22 1/2°	11 1/4°
3", 4", 6"	3.8	5.3	2.9	1.5	1
8"	6.5	9.1	4.9	2.5	1.3
12"	13.7	19.4	10.5	5.3	2.7
16"	23.8	26.0	14.0	7.2	3.6
18"	29.9	42.3	22.9	11.7	5.9



## TYPICAL REDUCER

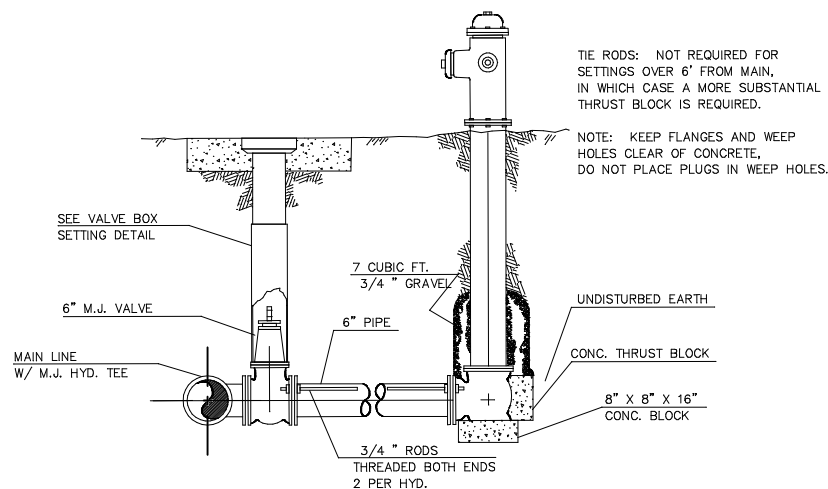


## THRUST BLOCK DETAILS



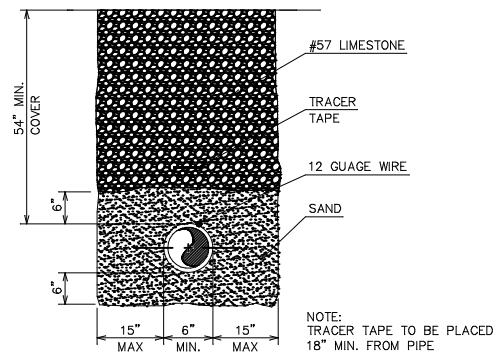
## FLUSH OUT ASSEMBLY

FIRE HYDRANT SHALL BE FLOW CONTROL B 84 B  
OR CLOW AS APPROVED BY MUSKINGUM COUNTY WATER DEPARTMENT.

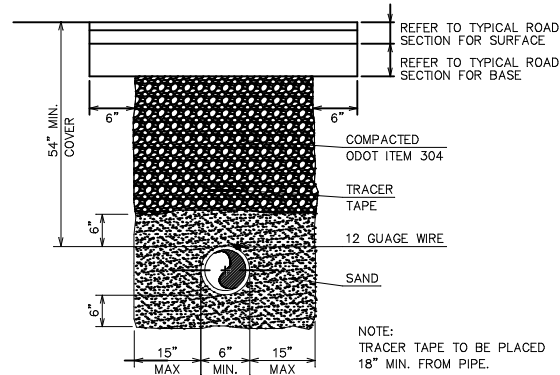


## FIRE HYDRANT ASSEMBLY

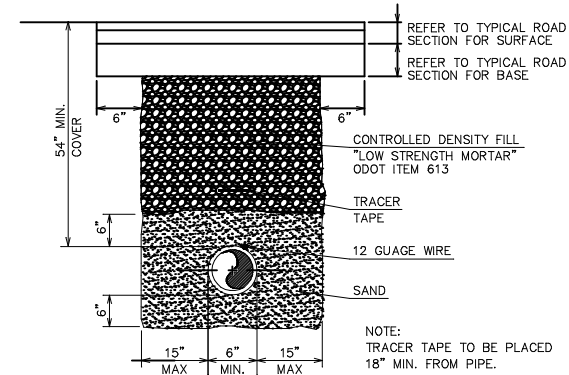




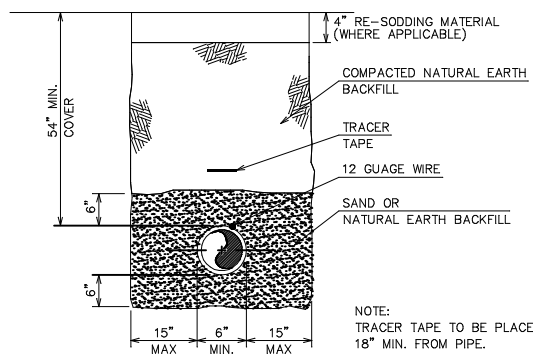
TYP. PIPE TRENCH DETAIL  
NON-PAVED DRIVEWAY AREAS



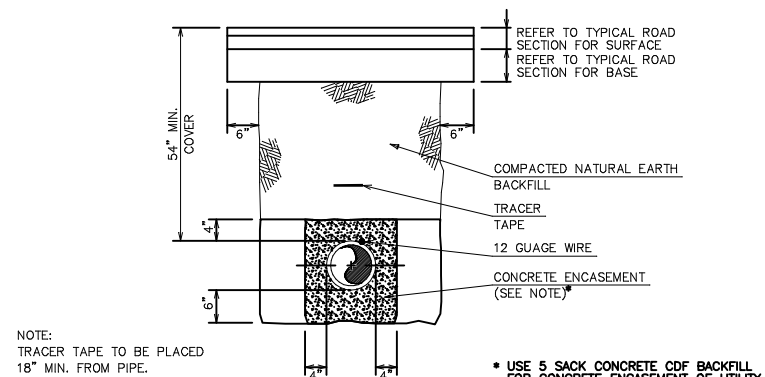
TYP. PIPE  
TRENCH DETAIL  
(PAVEMENT AREAS)  
FOR TOWNSHIP ROADS



TYP. PIPE  
TRENCH DETAIL  
(PAVEMENT AREAS)  
FOR COUNTY ROADS AND/OR STATE ROUTES



TYP. PIPE  
TRENCH DETAIL  
(EXIST. VEGETATION AREAS)



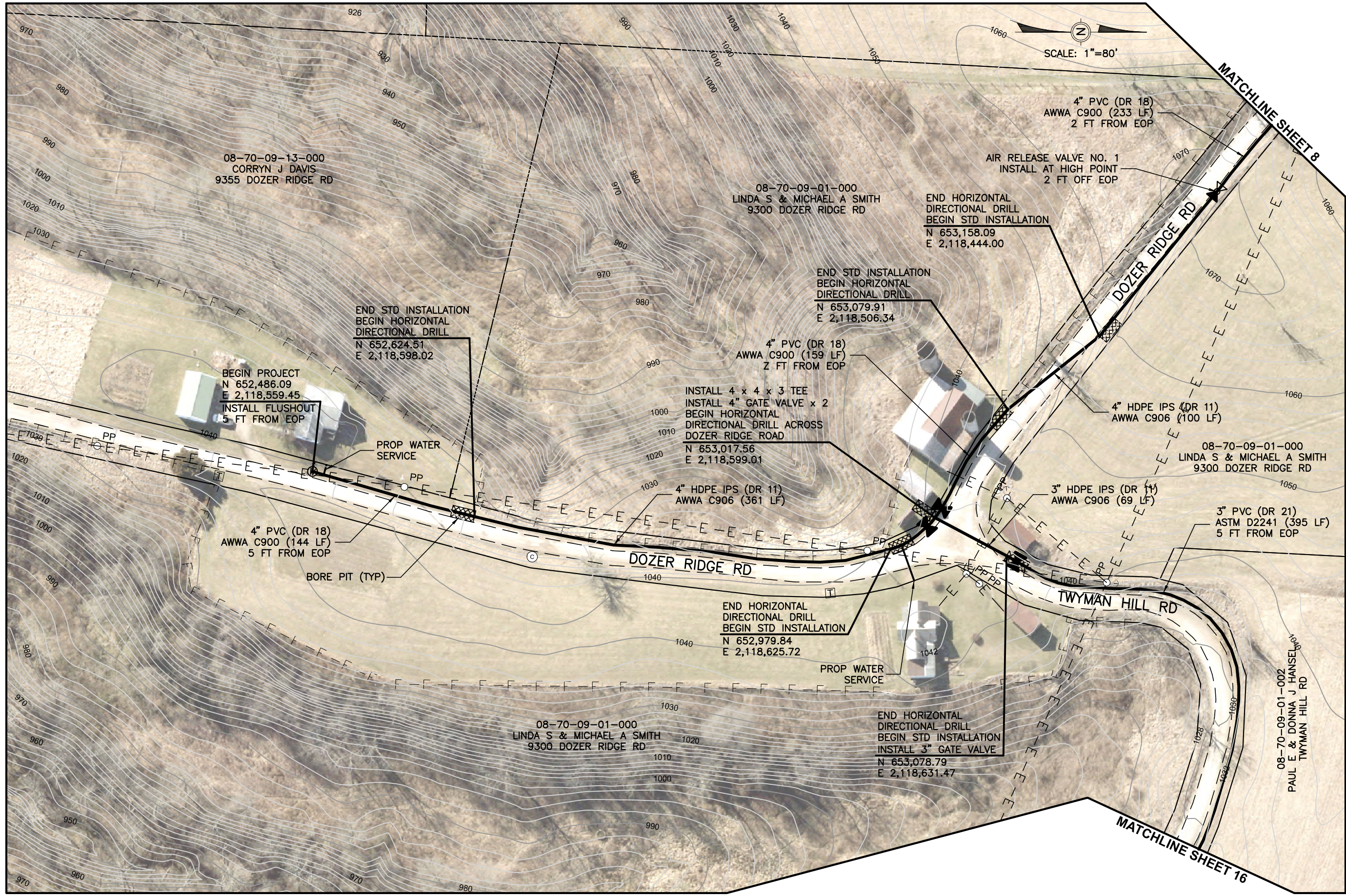
TYP. CONCRETE  
ENCASEMENT DETAIL

1 1/2" ASPHALT CONCRETE SURFACE COURSE*
2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE*
6" AGGREGATE BASE*

TYPICAL ROAD SECTION  
FOR PAVEMENT REPAIR AREAS

\* CONTRACTOR MAY SUBSTITUTE ASPHALT/  
AGGREGATE BASE WITH 8" CLASS C CONCRETE  
(4000 PSI) WITH WELDED WIRE MESH 6x6  
W1.4xW1.4 (10 GAGE)





PREPARED BY:  
**Muskingum County**  
ENGINEER'S OFFICE

PROJECT NAME:  
DOZER RIDGE ROAD WATERLINE EXTENSION

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BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
**MJE**

PLANS PREPARED BY:  
**GJW**

DATE:  
**06/05/2025**

REVISED:

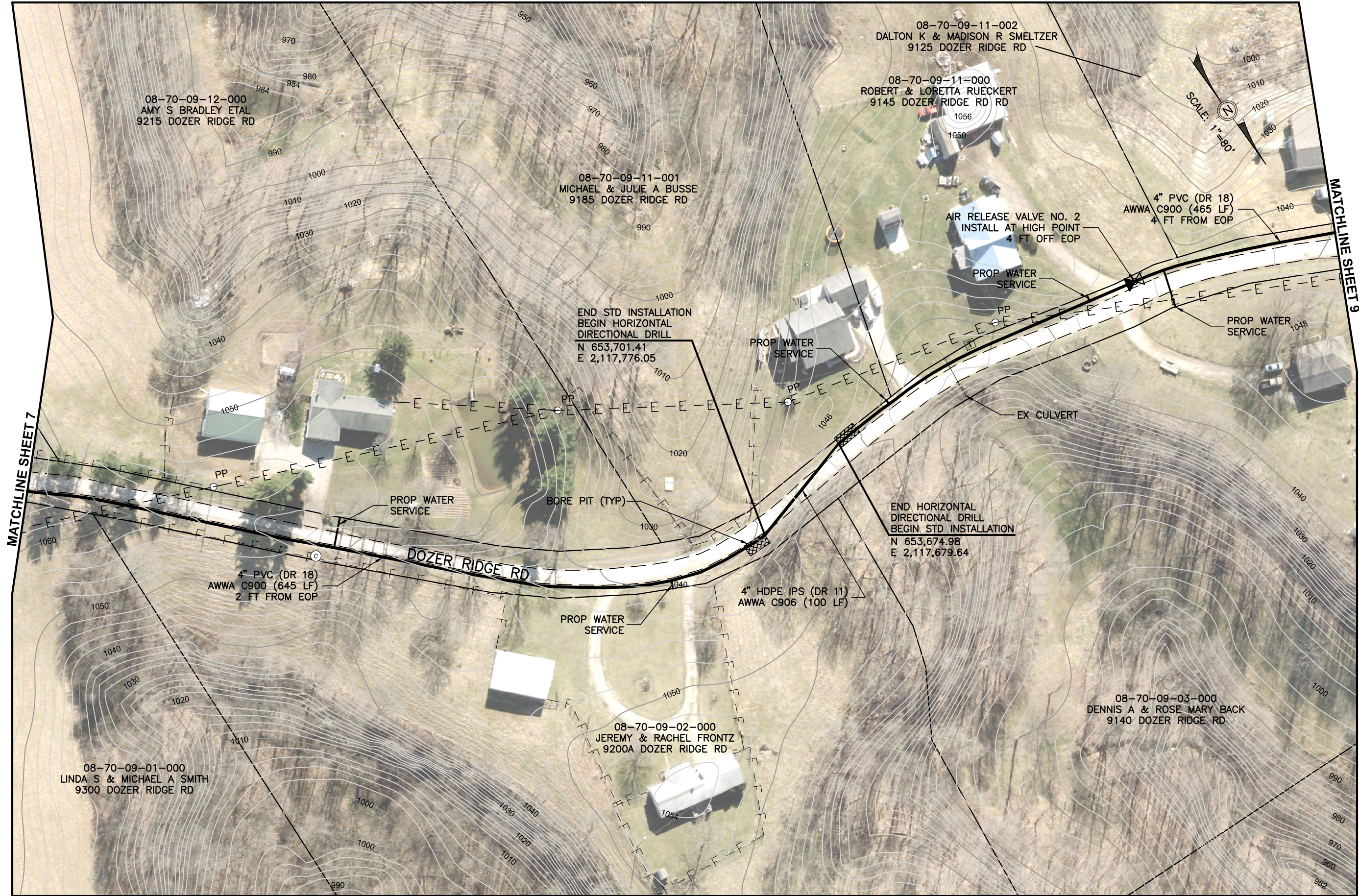
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SHEET NAME:  
PLAN SHEET (1)

SHEET NUMBER:  
07  
23

Mark J. Eicher, P.E., P.S.  
109 Graham Street  
Zanesville, Ohio 43701  
740-454-0155





Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 ENGINEER'S OFFICE 740-454-0155	
DOZER RIDGE ROAD WATERLINE EXTENSION	
BLUE ROCK, OHIO 43720	
PROJECT NAME	PROJECT LOCATION
PLANS APPROVED BY: MJE	
PLANS PREPARED BY: GJW	
DATE	06/05/2025
REVISED	
SHEET SIZE	11" x 17"
SHEET NAME	PLAN SHEET (2)
SHEET NUMBER	08 23





MATCHLINE SHEET 10

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Zanesville, Ohio 43701  
740-454-0155

Muskingum  
County  
ENGINEER'S OFFICE

PREPARED BY:

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BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
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06/05/2025

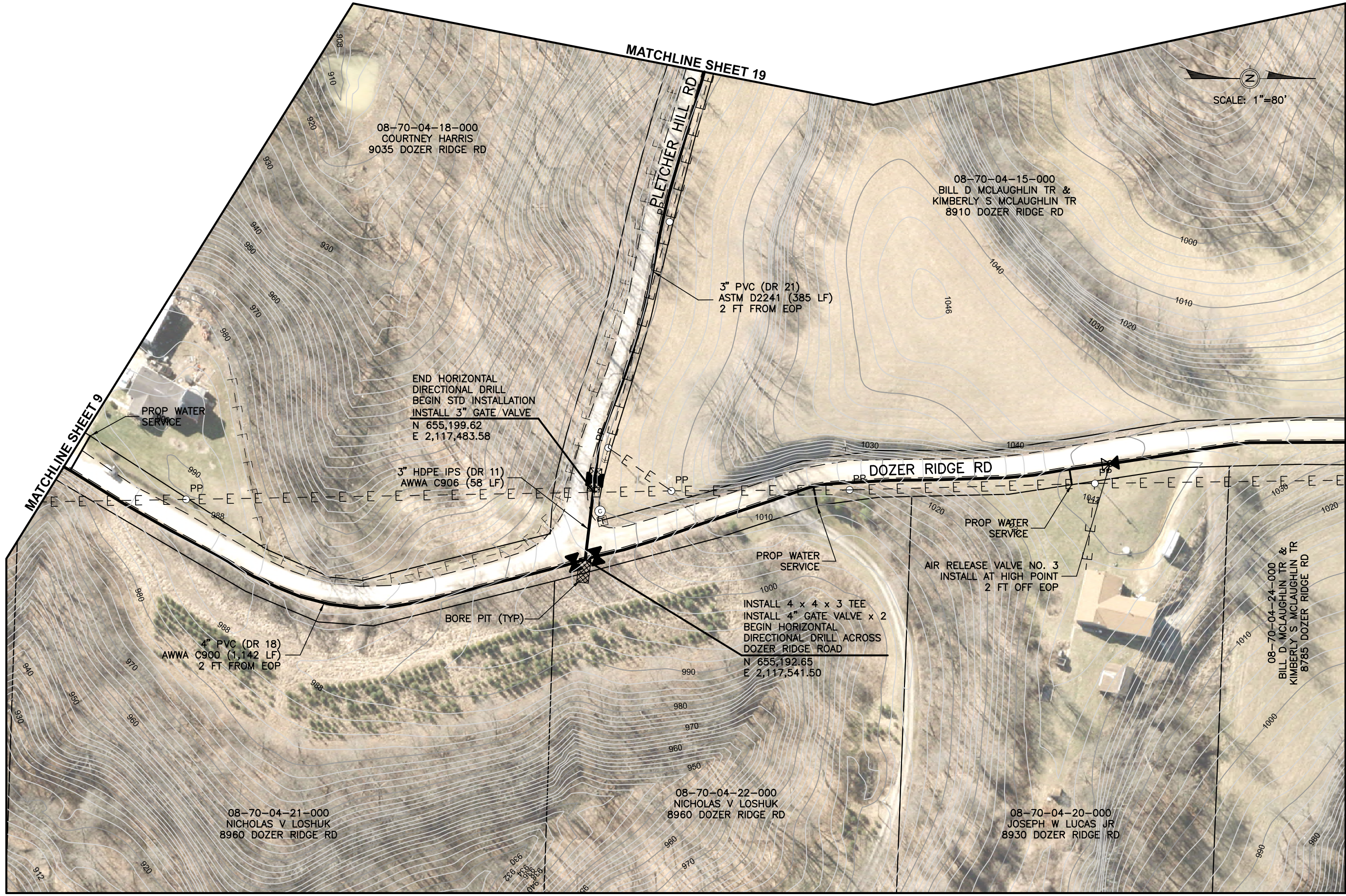
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SHEET NAME:  
PLAN  
SHEET (3)

SHEET NUMBER:  
09  
23





Mark J. Eicher, P.E., P.S.  
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Zanesville, Ohio 43701  
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Markuskingum

County

ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:

PLANS APPROVED BY:

PLANS PREPARED BY:

DATE:

REVISED:

SHEET SIZE:

SHEET NAME:

SHEET NUMBER:

DOZER RIDGE ROAD WATERLINE EXTENSION

BLUE ROCK, OHIO 43720

MJE

GJW

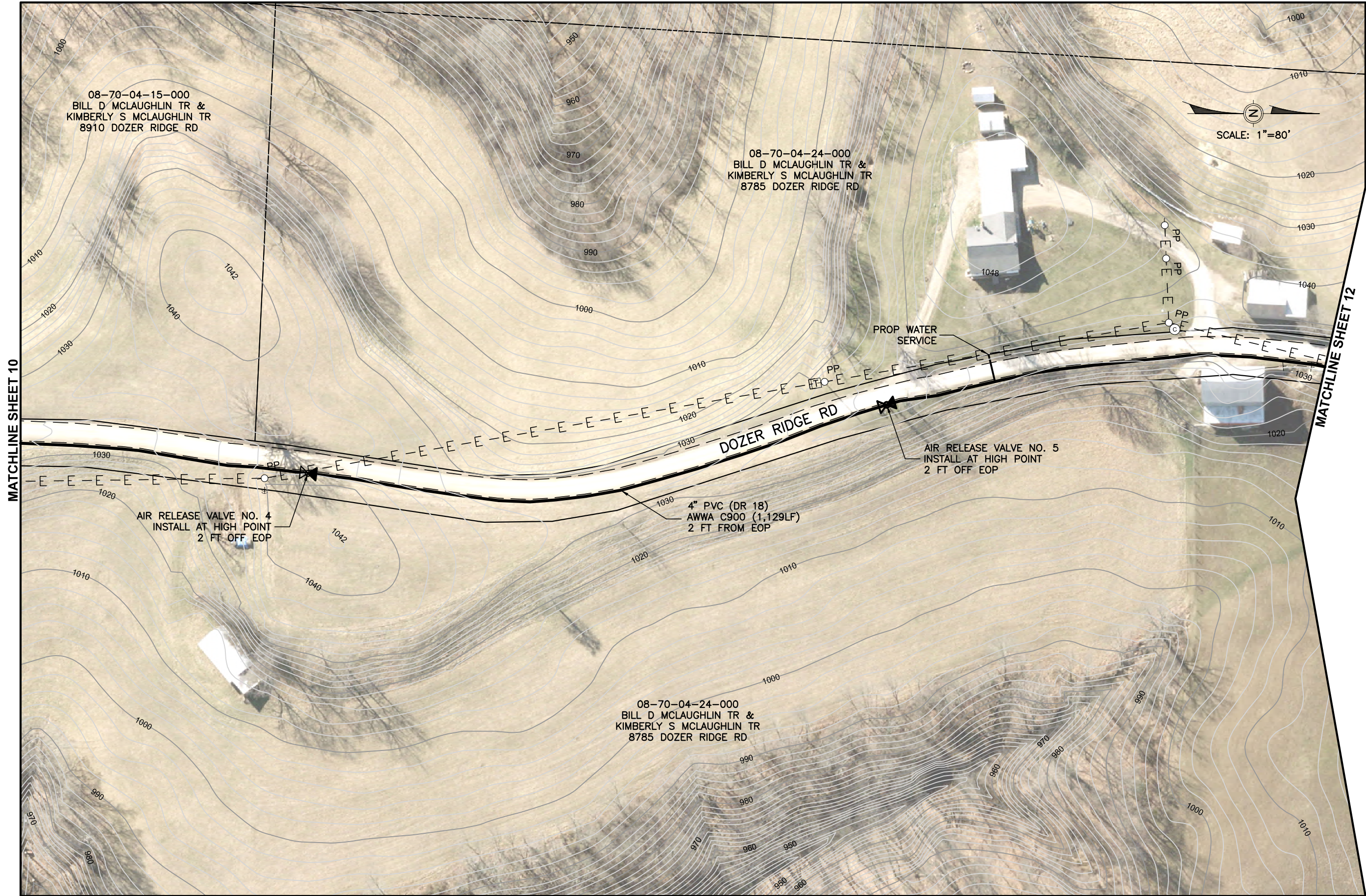
06/05/2025

11" x 17"

PLAN SHEET (4)

10  
23





PREPARED BY:

PROJECT NAME  
DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION  
BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
GJW

DATE  
06/05/2025

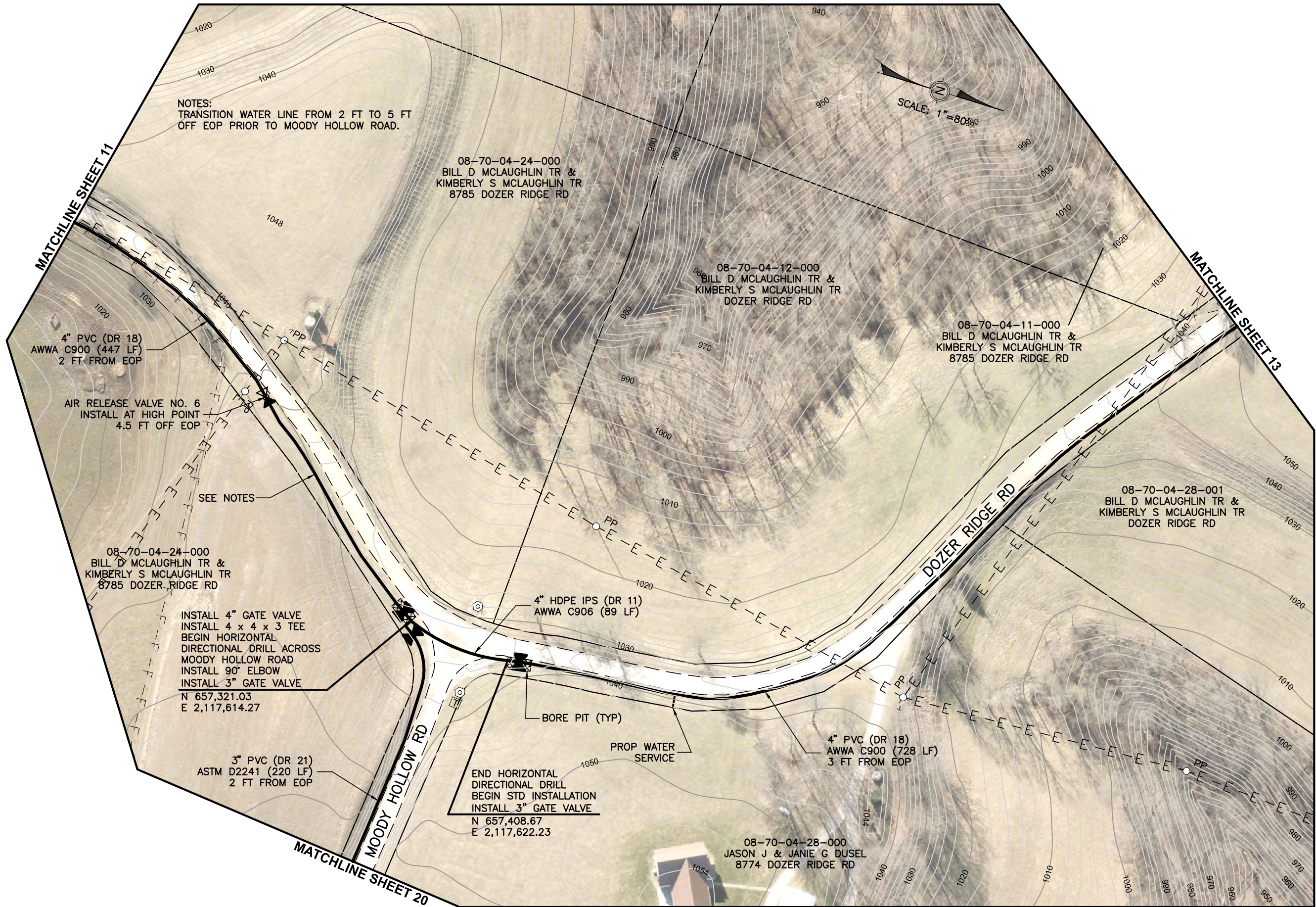
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SHEET NAME:  
PLAN  
SHEET (5)

SHEET NUMBER:





PREPARED BY:

PROJECT NAME:  
DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION:  
BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
GJW

DATE:  
06/05/2025

REVISED:

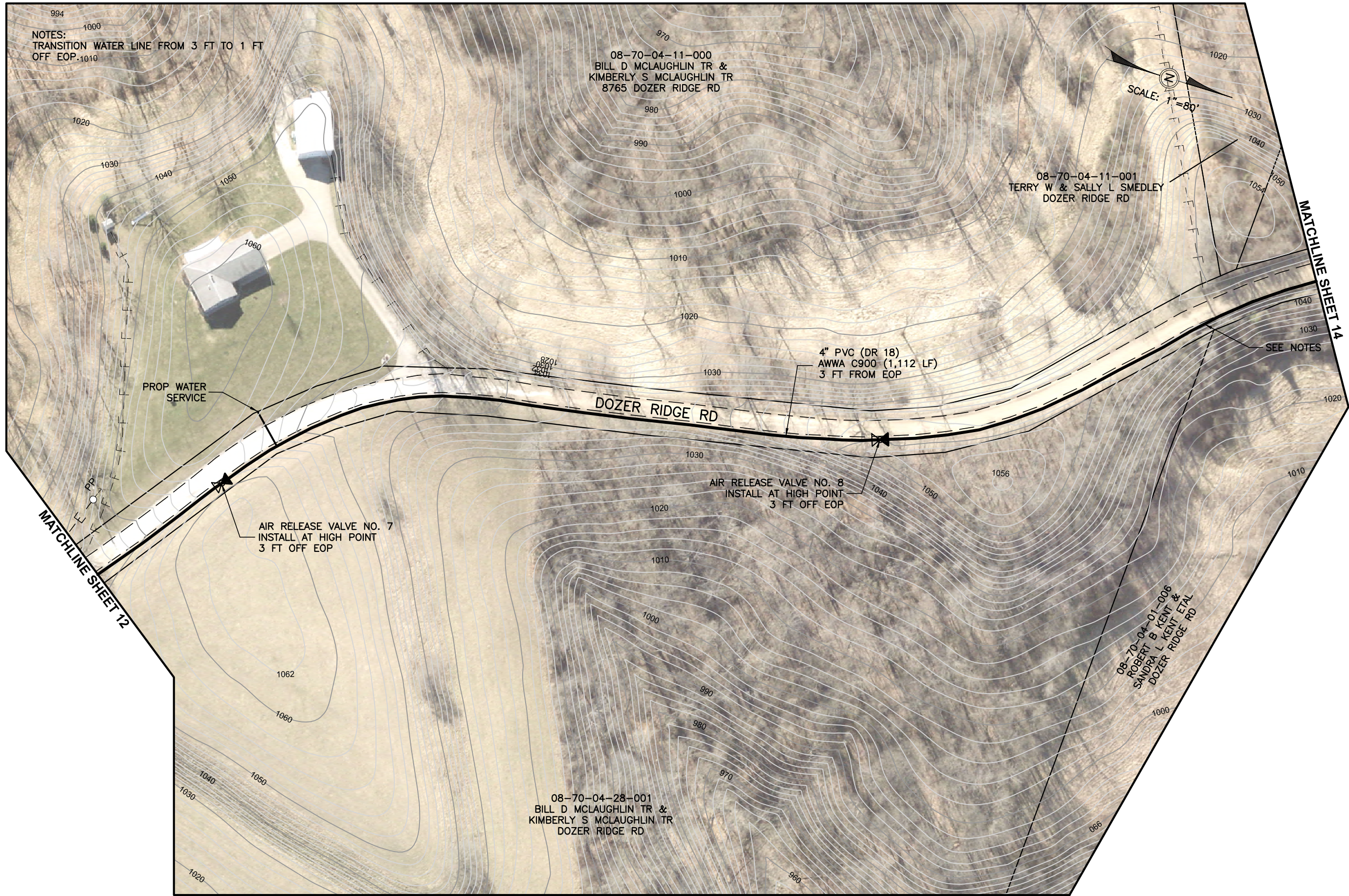
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PLAN SHEET (6)

SHEET NUMBER:

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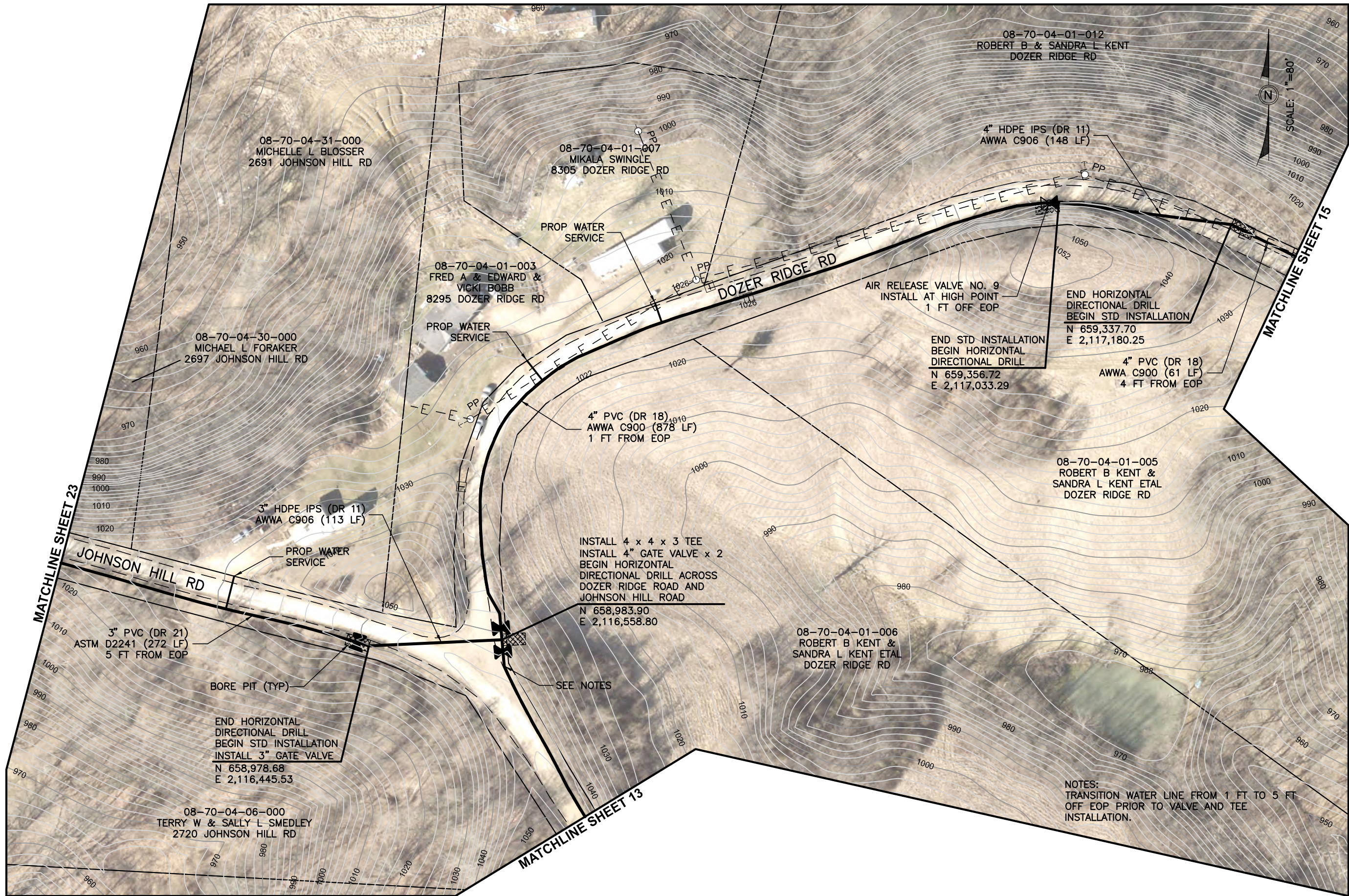
Mark J. Elder, P.E., P.S.  
109 Graham Street  
Zanesville, Ohio 43701  
740-454-0155

Muskingum  
County  
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME	DOZER RIDGE ROAD WATERLINE EXTENSION
PROJECT LOCATION	BLUE ROCK, OHIO 43720
PLANS APPROVED BY:	MJE
PLANS PREPARED BY:	GJW
DATE	06/05/2025
REVISED	
SHEET SIZE	11" x 17"
SHEET NAME	PLAN SHEET (7)
SHEET NUMBER	13 23





PREPARED BY:

PROJECT NAME:  
DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION:  
BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
GJW

DATE:  
06/05/2025

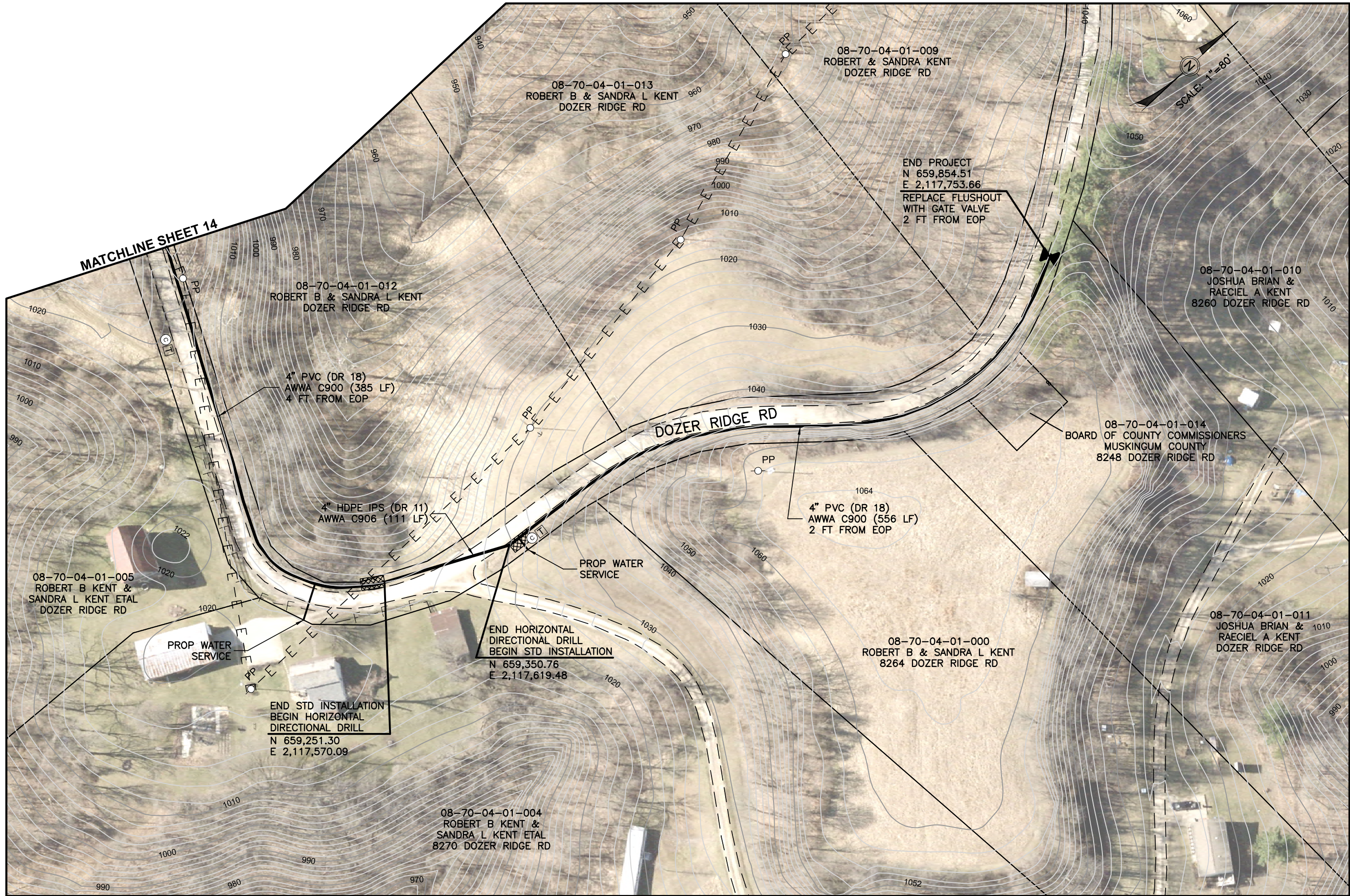
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SHEET NAME:  
PLAN SHEET (8)

SHEET NUMBER:  
14  
23





PREPARED BY:

PROJECT NAME:  
DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION:

BLUE ROCK, OHIO 43720

PLANS APPROVED BY:  
MJE

PLANS PREPARED BY:  
GJW

DATE:  
06/05/2025

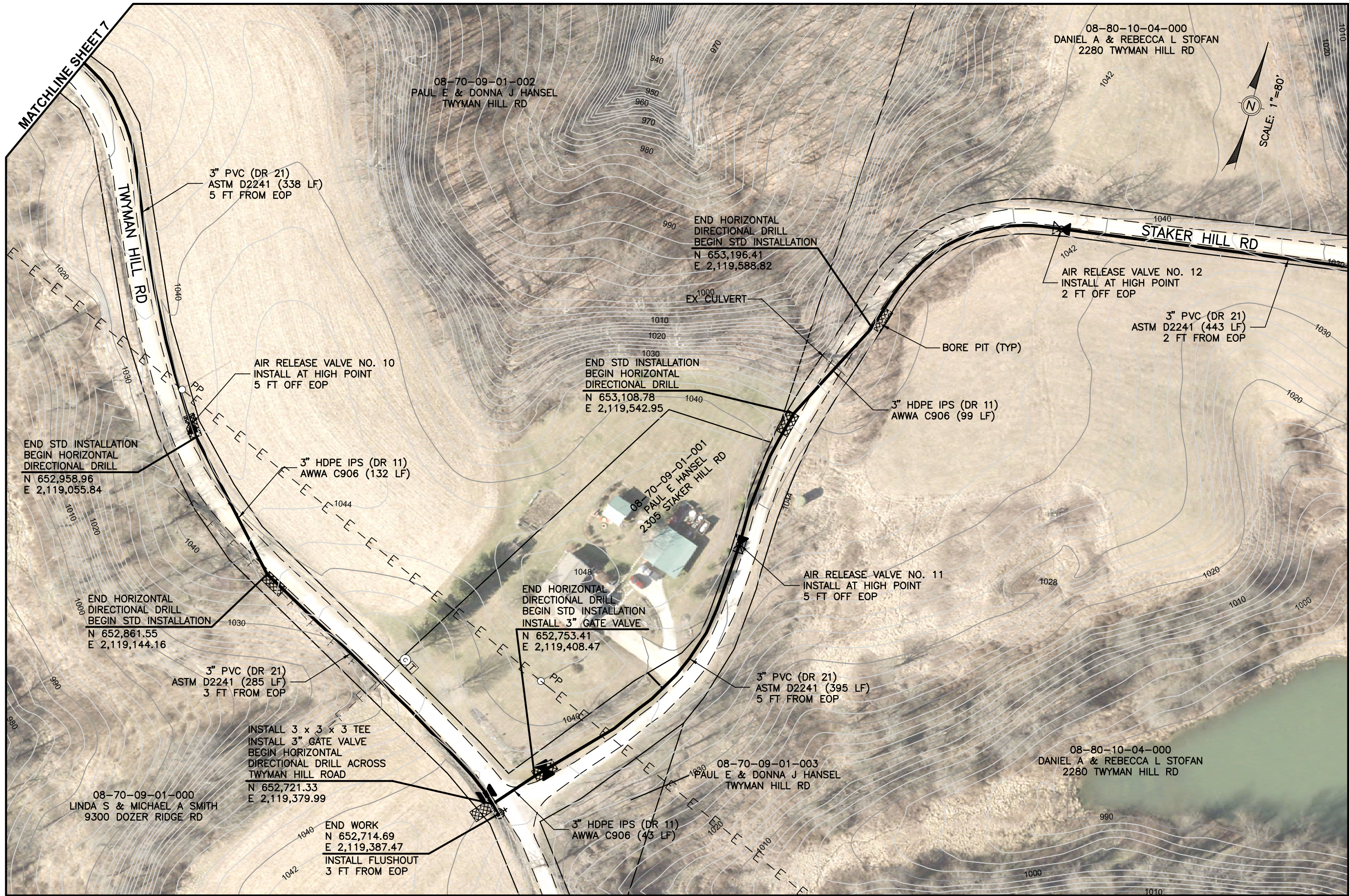
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SHEET NAME:  
PLAN SHEET (9)

SHEET NUMBER:





MATCHLINE SHEET 17

Mark J. Eicher, P.E., P.S.  
109 Graham Street  
Zanesville, Ohio 43701  
ENGINEER'S OFFICE 740-454-0155

PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION  
PROJECT LOCATION: BLUE ROCK, OHIO 43720

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 06/05/2025

REVISED:

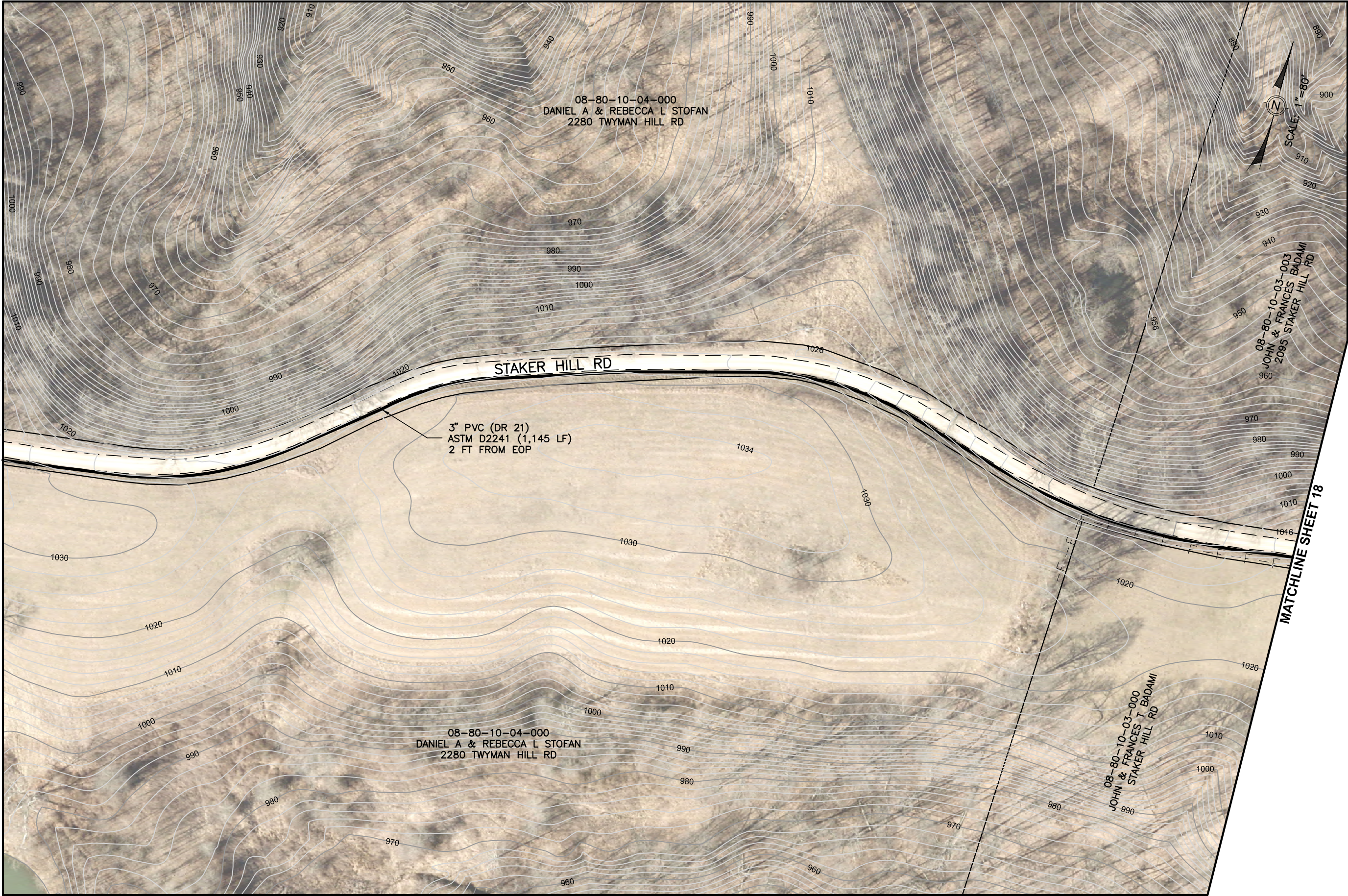
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SHEET NAME: PLAN SHEET (10)

SHEET NUMBER:



MATCHLINE SHEET 16



PREPARED BY: <b>Muskingum County</b> ENGINEER'S OFFICE		Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION	PROJECT LOCATION: BLUE ROCK, OHIO 43720		
PLANS APPROVED BY: MJE	PLANS PREPARED BY: GJW		
DATE: 06/05/2025	REVISED:		
SHEET SIZE: 11" x 17"		SHEET NAME: PLAN SHEET (11)	
SHEET NUMBER: 17 23			



MATCHLINE SHEET 17



PREPARED BY:

PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION: BLUE ROCK, OHIO 43720

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

06/05/2025

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

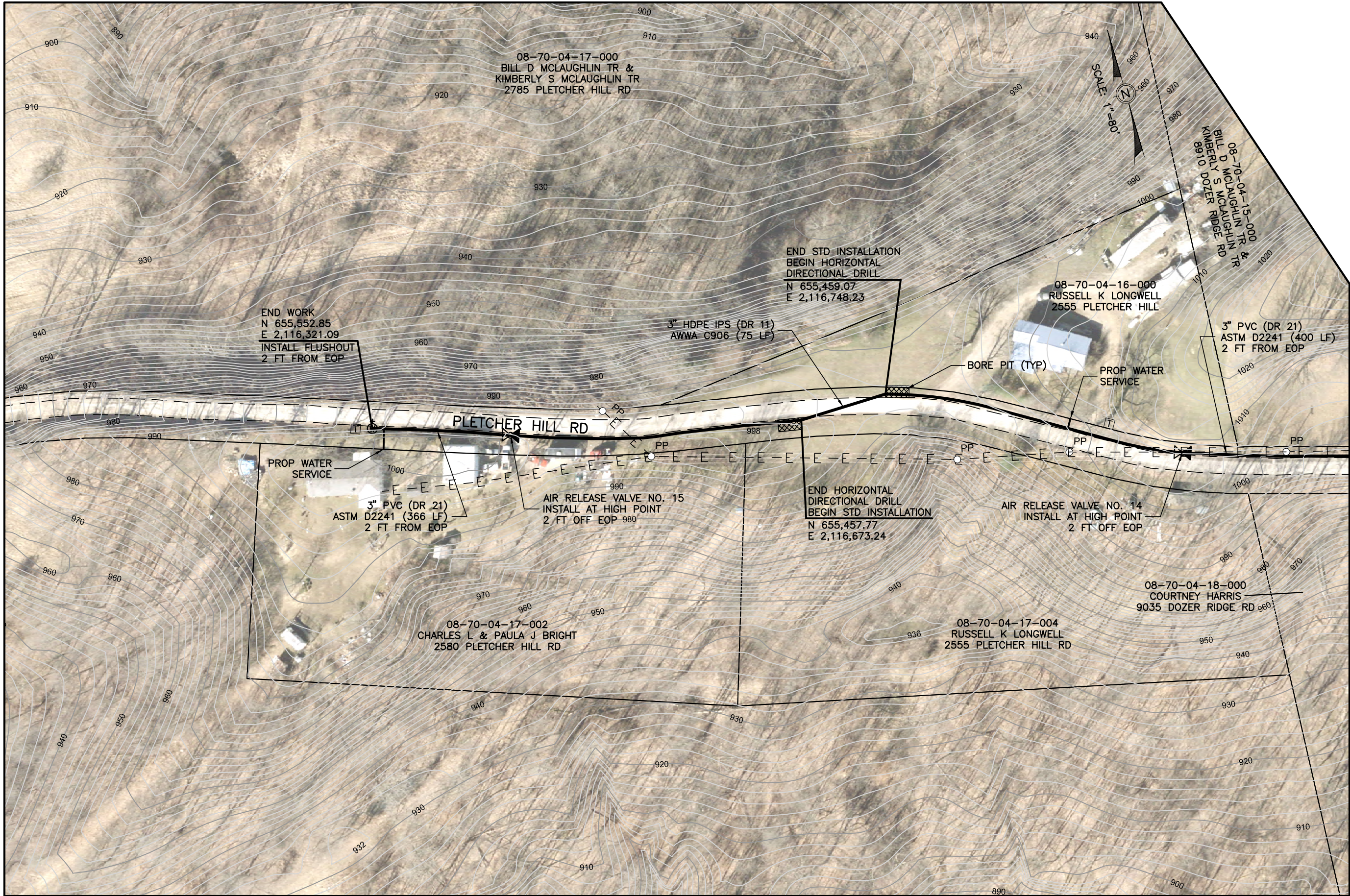
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SHEET NUMBER:

18

23





MATCHLINE SHEET 10

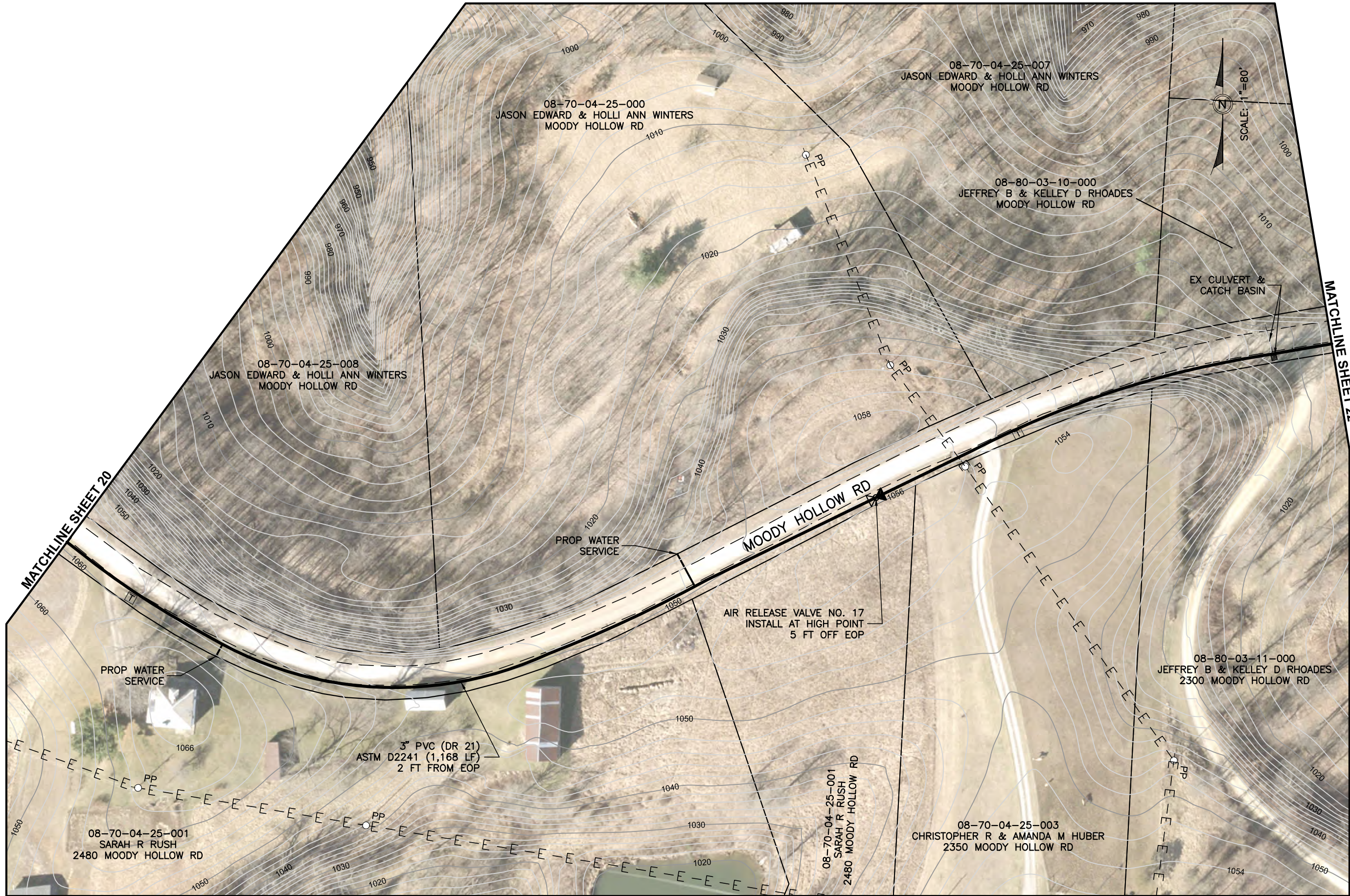
PREPARED BY: <b>Muskingum County</b> ENGINEER'S OFFICE		Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION		PROJECT LOCATION: BLUE ROCK, OHIO 43720	
PLANS APPROVED BY: MJE		PLANS PREPARED BY: GJW	
DATE: 06/05/2025		REVISED:	
SHEET SIZE: 11" x 17"		SHEET NAME: PLAN SHEET (13)	
SHEET NUMBER: 19		SHEET NUMBER: 23	





PREPARED BY: <b>Muskingum County</b> ENGINEER'S OFFICE		Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION		PROJECT LOCATION: BLUE ROCK, OHIO 43720	
PLANS APPROVED BY: MJE			
PLANS PREPARED BY: GJW			
DATE: 06/05/2025			
REVISED:			
SHEET SIZE: 11" x 17"			
SHEET NAME: PLAN SHEET (14)			
SHEET NUMBER: 20 23			





<p>Mark J. Eicher, P.E., P.S. 109 Graham Street Zanesville, Ohio 43701 740-454-0155</p> <p><b>Muskingum County</b> <b>ENGINEER'S OFFICE</b></p>	
<p>PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION</p>	<p>PROJECT LOCATION: BLUE ROCK, OHIO 43720</p>
<p>PLANS APPROVED BY: MJE</p>	
<p>PLANS PREPARED BY: GJW</p>	
<p>DATE: 06/05/2025</p>	
<p>REVISED:</p>	
<p>SHEET SIZE: 11" x 17"</p>	
<p>SHEET NAME: PLAN SHEET (15)</p>	
<p>SHEET NUMBER: 21 23</p>	





PREPARED BY:

PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION

PROJECT LOCATION:

BLUE ROCK, OHIO 43720

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 06/05/2025

REVISED:

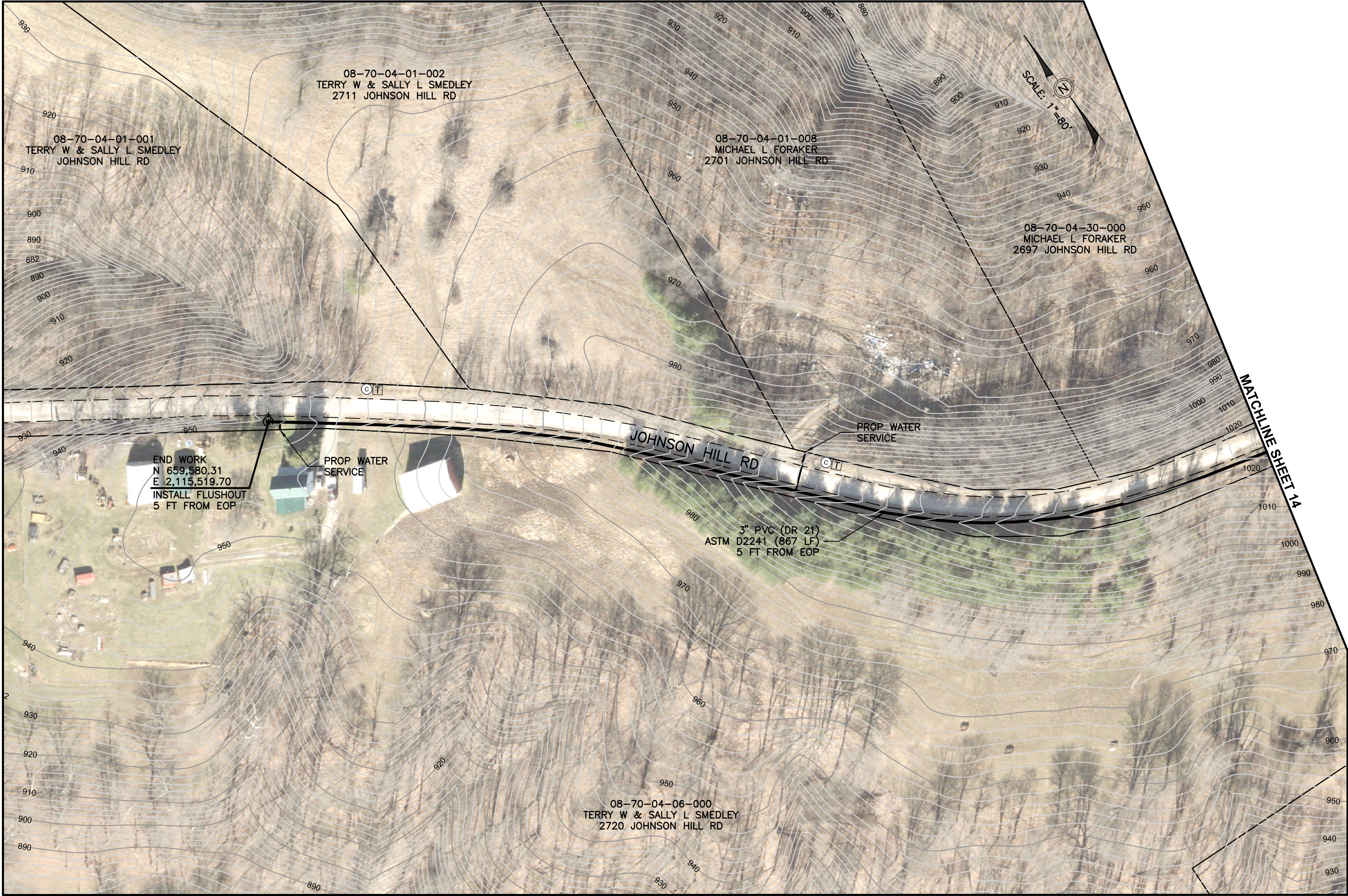
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SHEET NUMBER:

22  
23





PREPARED BY: <b>Mark J. Eicher, P.E., P.S.</b> <b>Muskingum County</b> <b>ENGINEER'S OFFICE</b> 109 Graham Street Zanesville, Ohio 43701 740-454-0155	
PROJECT NAME: DOZER RIDGE ROAD WATERLINE EXTENSION	PROJECT LOCATION: BLUE ROCK, OHIO 43720
PLANS APPROVED BY: <b>MJE</b>	
PLANS PREPARED BY: <b>GJW</b>	
DATE: <b>06/05/2025</b>	
REVISED:	
SHEET SIZE: <b>11" x 17"</b>	
SHEET NAME: <b>PLAN SHEET (17)</b>	
SHEET NUMBER: <div>23</div> <div>23</div>	