

MR 509
Permit No. 22-19646-06

Office Use Only

State of Ohio
Department of Transportation
Permit

County or Jurisdiction FRA
Rte SR317
Log Pt 2.15-2.69
Acc Cat

[1] Subject to all terms, conditions, and restrictions printed, written below and on the reverse side hereof, or attached,

Name: Columbia Gas of Ohio
Address: 3101 N Ridge Rd E Lorain OH 44055
Company Phone: 614-706-9745

is hereby granted a permit under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform work necessary in the manner described and at the location indicated in the following or attached to this permit.

Utility - (see attached sheets)

Description of Work: Installation of ~811' of 6" plastic natural gas piping to run at medium pressure. Work expected commence October 2022 and is expected to be completed by December 2022.

[2] This permit shall be in the possession of employees /agents of permittee on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation.

Contact ODOT Representative 3 days before work begins, also contact ODOT Representative when work is completed for final inspection.

Failure to notify the ODOT Representative could result in work stoppage!

[3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from

ODOT Representative
Phone 614-387-2522
Email Address:
(Authorized ODOT Employee)

NOTE: Any work performed by the permittee may be stopped if this requirement is not met.

[4] Prior to any excavation in the highway right-of-way, the Ohio811, <https://www.oups.org/excavators>, must be contacted in accordance with ORC Section 3781.25 to 3781.32. Ohio811 can be reached at 1-800-362-2764 or 811.

[5] If your utility is above ground in any way, you must mark your utility with a fluorescent colored marker that corresponds with the universal OUPS color code. The marker must be no shorter than six feet in height and you must maintain the marker. Guide wires must be marked a fluorescent yellow. Failure to mark as described, will result in the Department of Transportation being held harmless and no reimbursement for damage to your property.

[6] All work requiring persons or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Uniform Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[7] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to an including removal of the installation at the permittee's expense.

[8] Performance Bond Required? ☐ Yes ☐ No Company _____
Effective Date _____ Expiration Date _____ Amount \$ _____

[9] This permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by 03/29/2023

Dated 09/26/2022

Rev 5/6/2021
(the remainder of this page is left blank intentionally)

**General Provisions Applicable to All Permits
(Sections 5515.01 and 5515.02 of O.R.C.)**

- [1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest.
- [2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation and within the time determined by the Director. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.
- [3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee or its agent performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct or remove such work and the permittee shall reimburse the Department for the costs and shall hold the Department harmless for all results of such work.
- [5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, its employees, agents, or assigns as a result of the issuance of this permit.
- [6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's determination and given an opportunity to correct the problem. If the problem is not corrected timely or to the satisfaction of the Department, this permit will be revoked.
- [7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.

[9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage and any materials such as pipes and tiles damaged during any installation or repair by the permittee or its employees or agents shall be repaired immediately at the sole cost of the permittee. Permittee shall timely notify the Department of any such damage and repairs thereto. Failure of the permittee to immediately repair the damage after it is discovered shall result in the Department performing the repair and the permittee shall reimburse the Department for the costs and shall hold the Department harmless for all the results of such work which may include removal of the permittee's facilities.

[10] Any damage to ODOT or another's property caused by the work shall be repaired by the permittee or permittee's agent or contractor in a timely manner and at the sole cost of permittee. If any emergency repairs to ODOT property are needed that cannot be performed by the permittee or permittee's agent or contractor, ODOT shall cause the repairs to be performed at the sole cost of permittee.

[11] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.

[12] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.

[13] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.

[14] All underground utilities shall be installed at a depth and horizontal distance from the road surface and any appurtenances in accordance with state and national safety standards and as pre-approved by the Department. After installation, the exact location of the utility shall be provided to the Department. The Department shall be held harmless for any damage to utilities due to insufficient or inaccurate installation or identification and all repairs shall be at the sole cost of the permittee.

[15] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.

[16] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and any successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

[17] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:

(1) No person on the grounds of race, color, or national origin, shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the utility/facilities/ services of the permittee.

(2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.

(3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. DOT — Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

(4) In the event that this instrument grants a lease, license, or permit and any of the above non-discrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.

This permit is granted subject to the following attached conditions:

Permit approved as per plans and specifications are attached. Must be 48" under pavement and 36" under ditch must be 10' from edge of road and 2' clearance of culverts. No open cut of pavement. This is for ODOT right of way

-Have a valid 811 ticket with good paint marks on ground before any excavation.

-Facilities need placed as close to back of ROW as possible. Don't just take the easy route. Take the next contractor into consideration.

-Perform a thorough site investigation and pre bore walk to make sure no underground facilities are unaccounted for.

-Spot hole all facilities being crossed and visually watch the bore head/reamer pass the utilities.

-Maintain 5' of horizontal clearance if at all possible from other utilities.

-When there is less than 5' of clearance between bore path and a facility being paralleled, spot facility in conflict every 50' to verify it's path.

-Any structure being crossed 8" or larger in diameter will have a minimum of at least 2' of vertical clearance whether it be above or below said structure.

Must restore ODOT right of way back to its original conditions or better.

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[9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage and any materials such as pipes and tiles damaged during any installation or repair by the permittee or its employees or agents shall be repaired immediately at the sole cost of the permittee. Permittee shall timely notify the Department of any such damage and repairs thereto. Failure of the permittee to immediately repair the damage after it is discovered shall result in the Department performing the repair and the permittee shall reimburse the Department for the costs and shall hold the Department harmless for all the results of such work which may include removal of the permittee's facilities.

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[11] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.

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[16] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and any successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

[17] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:

(1) No person on the grounds of race, color, or national origin, shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the utility/facilities/ services of the permittee.

(2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.

(3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. DOT — Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

(4) In the event that this instrument grants a lease, license, or permit and any of the above non-discrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.

This permit is granted subject to the following attached conditions:

Permit approved as per plans and specifications are attached. Must be 48" under pavement and 36" under ditch must be 10' from edge of road and 72" below culverts. No open cut of pavement. This is for ODOT right of way only.

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Ohio Department of Transportation District Six
Permit and Local Let
Closure and Restriction Notification Form



* Indicates a Mandatory Field

* Permit Number

* County

City

[Find](#) Coordinates

* Road (SR, US, or I-)

* Road Status

Type of work

* Work completed by

Maintenance of Traffic (MOT)

* Your Name

* Your Email

* Your Phone Number

Your Cell Phone Number

* Traffic Restriction Start Date/Time

* Traffic Restriction Completion Date/Time

* Are Restrictions 24-hours a Day

☒ No ☐ Yes

please clarify below in the description

Start Mile Marker (SLM)

* Closest Intersecting Road

End Mile Marker (SLM)

* Closest Intersecting Road

* Direction

* Lanes of Traffic Maintained

Include total number of lanes available
(E.G. 1 of 2 lanes maintained) If project has both directions specify for each

* Person Responsible for work

(This is the contact name for the person on site E.G. contractor or permit holder)

* On Site Phone Number (with area code)

* Description of Work

The following information is additional required information for special hauls.

* Lane Closure/Restrictions

If there is a restriction, specify available lane width

Available Lane Width (edge line to edge line)

Feet: Inches:

Available Pavement Width

Feet: Inches:

* Ramp Closure/Restrictions:

If there is a restriction, specify available lane width

Available Lane Width (edge line to edge line)

Feet: Inches:

Available Pavement Width

Feet: Inches:

Bridge Work

Vertical Bridge Clearance

Feet: Inches:

Available Roadway Width

Feet: Inches:

* Bridge Direction

* Listed Detour if Applicable: (if not applicable state N/A)

Additional Closure/Restriction Information:

* What type of Traffic control is being utilized? (e.g. portable barrier, drums, temp signal, flaggers etc.)

* What standard construction drawings are being used and/or Typical Applications (TAs) If SCD or TAs are not applicable MOT drawings must be attached

* Who will be setting up the Traffic control? (List name of contractor or subcontractor and contact number.)

TYPICAL APPLICATIONS FOR MAINTENANCE OF TRAFFIC

THE FOLLOWING TYPICAL APPLICATION(S) FROM THE 2012 EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES & ODOT OFFICE OF ROADWAY ENGINEERING STANDARD CONSTRUCTION DRAWINGS SHOULD BE USED, AS NECESSARY, FOR TRAFFIC CONTROL ON THIS PROJECT AS DESCRIBED IN THE MANUAL:

TA-1 – WORK BEYOND THE SHOULDER

TA-3 – WORK ON THE SHOULDER

AT NO TIME SHALL THE ROADWAY/PAVEMENT BE OPEN CUT TO COMPLETE THE UTILITY INSTALLATION. IF OPEN CUT OF THE ROADWAY/PAVEMENT IS REQUIRED, THE APPLICANT SHALL RESUBMIT THE APPLICATION WITH THE APPROPRIATE DOCUMENTS.

HOURS OF OPERATION IN ROW

ALLOWABLE HOURS FOR ALL WORK SHALL BE FROM 9AM TO 3PM & 6PM TO 5AM M-F, ALL DAY SAT & SUN.

CITY OF COLUMBUS OCCUPANCY PERMIT

TO WORK WITHIN THE CITY OF COLUMBUS, THE APPLICANT MUST ALSO OBTAIN AN OCCUPANCY PERMIT FROM THE CITY OF COLUMBUS PERMIT DEPARTMENT.

LANES OPEN DURING HOLIDAYS AND SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

HOLIDAYS

NEW YEAR'S (OBSERVED)

TOTAL SOLAR ECLIPSE (4/8/24)

MEMORIAL DAY

FOURTH OF JULY (OBSERVED)

LABOR DAY

GENERAL/REGULAR ELECTION DAY (NOV)

THANKSGIVING

CHRISTMAS (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)	12:00 NOON FRIDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER, COUNTY MANAGER, THE DISTRICT 6 PUBLIC INFORMATION OFFICE AT D06.PIO@DOT.OHIO.GOV AND THE DISTRICT WORK ZONE TRAFFIC MANAGER AT D06.MOT@DOT.OHIO.GOV IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER OR ODOT.

NOTIFICATION TIME FRAME TABLE			
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE	
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT MANAGER, COUNTY MANAGER, THE DISTRICT 6 PUBLIC INFORMATION OFFICE AND THE DISTRICT WORK ZONE TRAFFIC MANAGER USING THE NOTIFICATION TIME FRAME TABLE.

APPLICANT SHALL FILL OUT AND SUBMITTED TO PIO & DWZTM ODOT *DISTRICT SIX - PERMIT AND LOCAL LET CLOSURE AND RESTRICTION* FORM WHEN NOTIFYING THEM OF THE UPCOMING TRAFFIC RESTRICTION.

PERSONAL PROTECTIVE EQUIPMENT

ODOT REQUIRES ALL CONTRACTORS' PERSONNEL TO WEAR THE CORRECT PPE WHILE WITHIN ODOT RIGHT-OF-WAY. ALL VEHICLES SHALL HAVE THE CORRECT SAFETY EQUIPMENT ALSO.

BORE PITS, EARTHWORK AND TRENCHES BEYOND THE SHOULDER

BORE PITS, EARTHWORK AND TRENCHES WITHIN ODOT RIGHT-OF-WAY MUST BE OUTSIDE OF THE DITCH SECTION AND PROTECTED IN ACCORDANCE WITH ODOT'S STANDARD CONSTRUCTION DRAWING MT-101.90. "DROPOFFS IN WORK ZONES".

- A PIT/TRENCH 4 TO 12 FEET FROM THE EDGE OF TRAVELED LANE AND GREATER THAN 12 INCHES DEEP MUST HAVE DRUMS DURING THE DAY AND PCB AT NIGHT UNLESS SECURELY PLATED OR BACKFILLED TO WITHIN 12 INCHES. SEE MT-101.90 FOR ADDITIONAL INFORMATION.
- A PIT/TRENCH 12 TO 30 FEET FROM THE EDGE OF TRAVELED LANE AND GREATER THAN 24 INCHES DEEP MUST HAVE DRUMS DURING THE DAY AND PCB AT NIGHT UNLESS SECURELY PLATED OR BACKFILLED TO WITHIN 24 INCHES. SEE MT-101.90 FOR ADDITIONAL INFORMATION.

THE LENGTH OF THE TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

VEHICLE PARKING

VEHICLES ARE NOT TO BE PARKED ON THE PAVEMENT. ALL VEHICLES ARE TO BE PARKED AT LEAST 5 FEET FROM THE EDGE OF PAVEMENT.

ACCESS TO PRIVATE PROPERTY

ACCESS TO DRIVES SHALL BE MAINTAINED VIA EXISTING PAVEMENT, TEMPORARY PAVEMENT OR ITEM 304. IN THE EVENT THAT A DRIVE CANNOT BE MAINTAINED AND A CLOSURE IS NEEDED THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

COMMERCIAL PROPERTY WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE CLOSED WHEN WORKING IN THE AREA OF THE DRIVE. COMMERCIAL PROPERTY WITH ONLY ONE DRIVEWAY OR DRIVEWAYS WITH ONE DIRECTION TRAFFIC USE WILL BE CONSTRUCTED PART WIDTH. THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. WHEN A RESIDENTIAL DRIVE IS CLOSED FOR CONSTRUCTION, MAINTAIN ALTERNATE ACCESS TO THE PROPERTY. IT MAY BE REQUIRED FOR THE CONTRACTOR TO MAINTAIN ONE PASSABLE LANE WITHIN A CLOSURE IN ORDER FOR VEHICLES TO ACCESS RESIDENCY WITH A VEHICLE.

SUCCESSFULLY NOTIFY THE OCCUPANTS/OWNERS OF COMMERCIAL OR RESIDENTIAL DRIVES TO BE CLOSED AND COORDINATE THE CLOSURE AT LEAST 48 HOURS BEFORE THE CLOSURE BEGINS (SIMPLY LEAVING A WRITTEN NOTICE OR PHONE MESSAGE IS NOT SUFFICIENT). COORDINATE ALTERNATE ACCESS TO RESIDENTIAL PROPERTIES WITH THE OWNER/OCCUPANT.

PROTECTION FROM DROP OFF CONDITIONS IN THE WORK ZONE

ALL DROP-OFF CONDITIONS WITHIN THE WORK ZONE MUST BE PROTECTED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-101.90.

MUD, DIRT AND DEBRIS

THE TRACKING OR SPILLAGE OF MUD, DIRT OR DEBRIS UPON STATE HIGHWAYS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

GENERAL LANE CLOSURE POLICIES

TRAFFIC BACK-UPS CAUSED BY THEIR OPERATION OF OVER 0.75 MILES IN LENGTH ANY TIME IS NOT PERMITTED. ODOT RESERVES THE RIGHT TO REVOKE THE PERMIT IF THE MOT GUIDELINES ARE NOT MET.



INSTALLATION ORDER NUMBER 22-0082882-00
ABANDONMENT ORDER NUMBER NA
PROJECT ID 22-87265
NB_LGR WEST
JOB TYPE: NEW BUSINESS (555)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN: JAMES MALTRY
CONSTRUCTION FLL: MATT ALIFF
PERMITS: ODOT PERMIT
TCC/LOA: 0822
COUNTY: FRANKLIN COUNTY (049)
TAX DISTRICT/TOWNSHIP ID: 0250010
MAP/GRID NUMBER: 7332408E
24 HR. EMERGENCY LINE: 1-800-344-4077

VALVES PLANNED FOR ABANDONMENT

VALVE NO.	FACILITY ID	LOCATION DESCRIPTION	ABANDONED VALVE INSERTED?		DISPOSITION			
			YES*	NO	VALVE REMOVED (NO BOX, ABOVE GROUND VALVE)	VALVE VALVE BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX FILLED W/ CONCRETE
#		No Valves to be Abandoned						
#								
#								
#								
#								

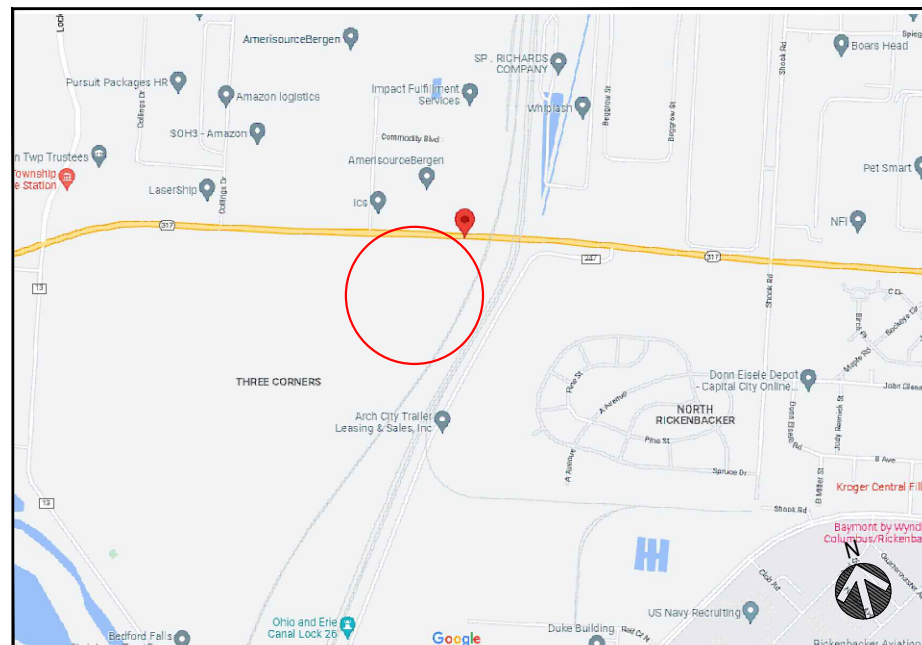
* - IF "YES," APPROVAL AND REASON ARE REQUIRED AND SHALL BE DOCUMENTED.
NOTE: IF VALVE COULD NOT BE LOCATED, MAKE APPLICABLE COMMENT IN ABOVE TABLE.

PROPOSED FACILITIES - SYSTEM MOP AND PRESSURE TEST DATA

SYSTEM NUMBER	34625011
SYSTEM NAME	GROVEPORT-EASTPORT BUSINESS PARK MP
SYSTEM MOP (PSIG)	60
SEGMENT MAOP (PSIG)	60
MINIMUM TEST PRESSURE (PSIG)	90
MAXIMUM TEST PRESSURE (PSIG)	125

VICINITY MAP

SCALE: NTS



PROJECT DESCRIPTION

INSTALL ~811'-4"PMMP; DIRECTIONAL BORE & OPEN CUT, SEWER CAMERA
ODOT PERMIT, EASEMENT REQUIRED;
TIE_IN ON 8-INCH

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
BOM-1	BILL OF MATERIALS
L-1	LAYOUT PLANS
D-1 - D-2	CONSTRUCTION DETAILS

PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
811'	6"	PL	0'	0"	
811'	TOTAL INSTALLATION (FEET)		0'	TOTAL ABANDONMENT (FEET)	
PROPOSED GAS SERVICES					
	REPLACEMENTS	TIE OVERS	TOTAL SERVICES	METER OUTS	
ESTIMATED GAS SERVICES	0	0	1	0	

MATERIAL APPROVED FOR USE ON THIS JOB ORDER IS LIMITED TO WHAT IS LISTED IN THE BILL OF MATERIALS IN THIS DRAWING.

ANY ADDITIONAL MATERIAL MUST BE APPROVED FOR USE BY THE P.E. RESPONSIBLE FOR THIS PROJECT.



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		
DESIGNED BY	J MALTRY	08/04/2022513-991-9650
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327
CHECKED BY	DAN HARTMANN	X X
AS-BUILT BY	X	X X
	NAME	DATE PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, FRANKLIN (049)

DRAWING TITLE:
TITLE SHEET

DRAWING NO:
T-1

General Notes

1. Deviation from NiSource CAD Standards is at discretion of reviewing Professional Engineer.
2. Refer to project documentation for the associated Environmental Compliance Plan (ECP) and any project-specific documentation.
3. The proposed gas facility locations shown are approximate and are subject to change.
4. Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate and not to scale.
5. Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
6. Individual service line designs for services smaller than 3 inches in diameter are not provided by Engineering. These services shall be installed using the standard design criteria and material specified in the NiSource standards. Services 3 inches and larger in diameter shall be designed, reviewed, and represented on a separate plan set as necessary.
7. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:

Code of Federal Regulations (CFR)

49 CFR 192 Pipeline Safety Regulations

29 CFR 1910 Occupational Safety and Health Administration (OSHA)

American Society of Mechanical Engineers (ASME)

ASME B31.8 Gas Transmission and Distribution Piping Systems
8. All NiSource design codes and standards will be adhered to as applicable.
9. Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
10. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

F - FRONT

BK - BACK

L - LEFT

R - RIGHT

B - BUILDING EDGE

CU - CURB

CLP - CENTER OF PAVEMENT

CLR - CENTER OF RIGHT-OF-WAY

CEL - CENTER OF EASTBOUND LANE

CWL - CENTER OF WESTBOUND LANE

CNL - CENTER OF NORTHBOUND LANE

CSL - CENTER OF SOUTHBOUND LANE

Drawing Revision Conditions:

1. If, during the course of project construction, anticipated changes to project plans result in complex project criteria being met as defined by NiSource Gas Standard 2810.050 "Stakeholder Reviews of Design Capital Projects," the changes shall not be implemented until revised project documentation is reviewed by the Project Engineer and approved by a Professional Engineer as necessary.
2. Any additional gas pressure containing material not listed on the project Bill of Materials must be reviewed by the Project Engineer and reviewing Professional Engineer prior to use.
3. Any significant changes to proposed primary pipeline installation methods and location must be reviewed by the Project Engineer and reviewing Professional Engineer.
4. Any significant changes to proposed project scope must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes to project scope may include changes to proposed design pressure, change of proposed pipe size and material affecting system hydraulics, and the addition or removal of significant amounts of pipeline installation or abandonment.
5. Any significant changes to proposed tie-ins must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes may include the following: addition or removal of a tie-in, change in proposed tie-in material, change in proposed tie-in method, and change in tie-in location if system hydraulics may be affected.

Project Specific Drawing Revision Conditions (add below items to Drawing Revision Conditions notes as applicable):

6. This project involves the installation of facilities within private rights-of-way as indicated by the proposed installation drawing. If, during the course of installation, it is found that the installation must deviate from the planned location within the private right-of-way, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.
7. This project involves the installation of facilities in permitted locations within public right-of-way. If, during the course of installation, it is found that the installation must deviate from the permitted location, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.

Environmental Notes

1. All NiSource construction activities must be completed in accordance with the Environmental Construction Standards (HSE 4440.020) and the project Environmental Compliance Plan (ECP). Said ECP shall be provided by others.
2. The project ECP and any site-specific erosion control drawings, must be provided to the contractor with the project drawings for review and planning prior to the start of construction activities. This includes any tree clearing activities required prior to the start of facility construction activities.
3. The project ECP and any associated drawings must be reviewed with construction, the contractor, and an environmental representative prior to the start of construction activities.
4. These documents must remain on site for the duration of the construction project, and any project scope changes, with the potential to impact the requirements of the ECP or environmental drawings, must be coordinated with an environmental representative prior to completion.

DRAWING LEGEND

Gas Main Symbology

- Existing Gas Main
- Existing Gas Main to Be Abandoned
- Proposed Gas Main
- Proposed Gas Main Uprate

Gas Main Material/Pressure Label References

MATERIAL CODES

- CS* Coated Steel Gas Main
- WT* Weld Treated Gas Main
- CI* Cast Iron Gas Main
- BS* Bare Steel Gas Main
- WI* Wrought Iron Gas Main
- PH* High Density Polyethylene Gas Main
- PM* Medium Density Polyethylene Gas Main

PRESSURE CODES

- *LP Low Pressure
- *IP Intermediate Pressure
- *MP Medium Pressure
- *HP High Pressure

MISCELLANEOUS CODES

- *-SER Service
- *-R Riser
- (TC) Transmission Class

Gas Main Installation Method Label References

- AT Attached
- BH Bridge Hanger
- BLGH Building Hanger
- DB Directional Bore
- IS Inserted
- OC Open Cut
- PB Pneumatic Bore
- PL Plowed
- RT Roof Top
- (E) Existing
- (P) Proposed

- W1 Weld Location
- T1 Gas Main Tie-in Location
- A1 Gas Main Abandonment Location

Gas Facility Symbology

- x"GV Gas Valve
- x"PVC Critical Gas Valve
- (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
- x"HVTT High Volume Tapping Tee
- x"SST Pressure Control Fitting - ShortStopp Tee
- x"SPH Pressure Control Fitting - Spherical Tee
- x"MF-BO Pressure Control Fitting - Mueller Bottom-out
- x"MF-SO Pressure Control Fitting - Mueller Side-out
- x"MF-FT Pressure Control Fitting - Mueller Flange Tee
- x"SS Pressure Control Fitting - ShortStopp
- x"MF Pressure Control Fitting - Mueller Stopper
- x"x x" POLYTAP Polytapp Side Saddle Fitting
- Transition
- End Cap
- Riser
- Reducer
- Electronic Marker
- Flush-mounted Tracer Wire Station
- Post Pipeline Marker with Tracer Wire
- Gas Main Marker without Tracer Wire
- Test Well
- Regulator Station
- Single Customer Regulator
- Meter
- Meter with Regulator
- Test Point (Station)
- Gas Service Tie-over
- Gas Service Replacement
- Meter Move Out

Swing Tie Symbology

- Telephone Manhole
- Drain Manhole
- Electric Manhole
- Catch Basis
- Sewer Manhole
- Fire Hydrant
- Utility Pole
- Property Marker
- Telephone Pedestal
- Television Pedestal
- Unknown Manhole
- Water Box
- Water Gate
- Electric Pedestal
- Iron Pin
- Light Pole



PROPOSED



REVISIONS			
0			
REV. #	DATE	DESCRIPTION	
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:			
INST# 22-0082882-00			
ABAN# NA			
PROJECT ID# 22-87265			
NB_LGR WEST			
GROVEPORT, COUNTY (049)			

DRAWING TITLE:
GENERAL NOTES

DRAWING NO:
GN-1

BILL OF MATERIALS						
SSN	QTY	UNIT	SIZE (inches)	DESCRIPTION	CATEGORY	MAXIMUM ALLOWED PRESSURE (psig)
09-45-065	0	FT	1	1" CTS X 250' COIL, .099 wt, PE2708, ASTM-D2513	Plastic Pipe	60
09-45-332	811	FT	6	6" IPS X 40' JOINT, .491 wt, SDR13.5, PE2708, ASTM-D2513	Plastic Pipe	60
16-09-003	1	EA	6	6" IPS, MT DEASON POLYTAPP, FULL-PORT BALL VALVE, ELECTROFUSE x THREAD, SDR 11, PE4710, ASTM D2513	Ball Valve	99
21-83-408	1	EA	8x6	8"x6" IPS, MT DEASON, ELECTROFUSION BRANCH SADDLE, PE 4710, ASTM D2513, SDR 11	Saddle	99
42-53-303	1	EA	---	3 TAPE BURIED GA	Not Available	Not Available
42-77-553	4	EA	---	POST-OH PIPELINE	Not Available	Not Available
43-02-0303	1	EA	2	2" IPS, BUTT FUSE, END CAP, SDR 11, PE2708, ASTM D2513	End Cap	60
43-02-0453	2	EA	6	6" IPS, BUTT FUSE, END CAP, SDR 13.5, PE2708, ASTM D2513	End Cap	60
43-02-1153	6	EA	1	1" CTS, SOCKET FUSE, END CAP, PE2708, ASTM D2513	End Cap	60
43-04-1153	3	EA	1	1" CTS Socket Fusion Coupling PE 2708	Coupling	60
43-04-2453	4	EA	6	6" IPS, ELECTROFUSE, BLACK HIGH DENSITY COUPLING, FOR USE ON PE4710 & PE 2708, ASTM D2513	Coupling	99
43-06-0453	5	EA	6	6" IPS, BUTT FUSE, 90 DEGREE ELBOW, SDR 13.5, PE2708, ASTM D2513	Elbow 90	60
43-08-0453	2	EA	6	6" IPS, BUTT FUSE, 45 DEGREE ELBOW, SDR 13.5, PE2708, ASTM D2513	Elbow 45	60
44-61-415	1	EA	---	6B&T V/B 8"VL 36	Not Available	Not Available
74-47-512	1	RL	---	#8 DIR BORE WIRE	Not Available	Not Available
74-80-103	2	EA	6x1	6" IPS x 1" CTS, ELECTROFUSE, SERVICE TAPPING TEE w/ PROTECTIVE SLEEVE & 4in MARKER BALL, PE 2708, ASTM D2513	Service Tee	60
74-80-104	2	EA	8x1	8" IPS x 1" CTS, ELECTROFUSE, SERVICE TAPPING TEE w/ PROTECTIVE SLEEVE & 4in MARKER BALL, PE 2708, ASTM D2513	Service Tee	60
74-80-105	6	EA	---	4" ELECTRONIC MR	Not Available	Not Available
Note 1: Maximum Allowed Pressure values are the maximum pressure for which a component can be used in a NiSource system. Values are determined by manufacturer ratings, design pressure calculations, and in the case of steel pipe/fittings; the Maximum Allowed Pressure has been established by calculating a pressure that keeps the SMYS below 20%, i.e. non-transmission classification.						
Note 2: Material quantities listed are for reference only.						



PROPOSED

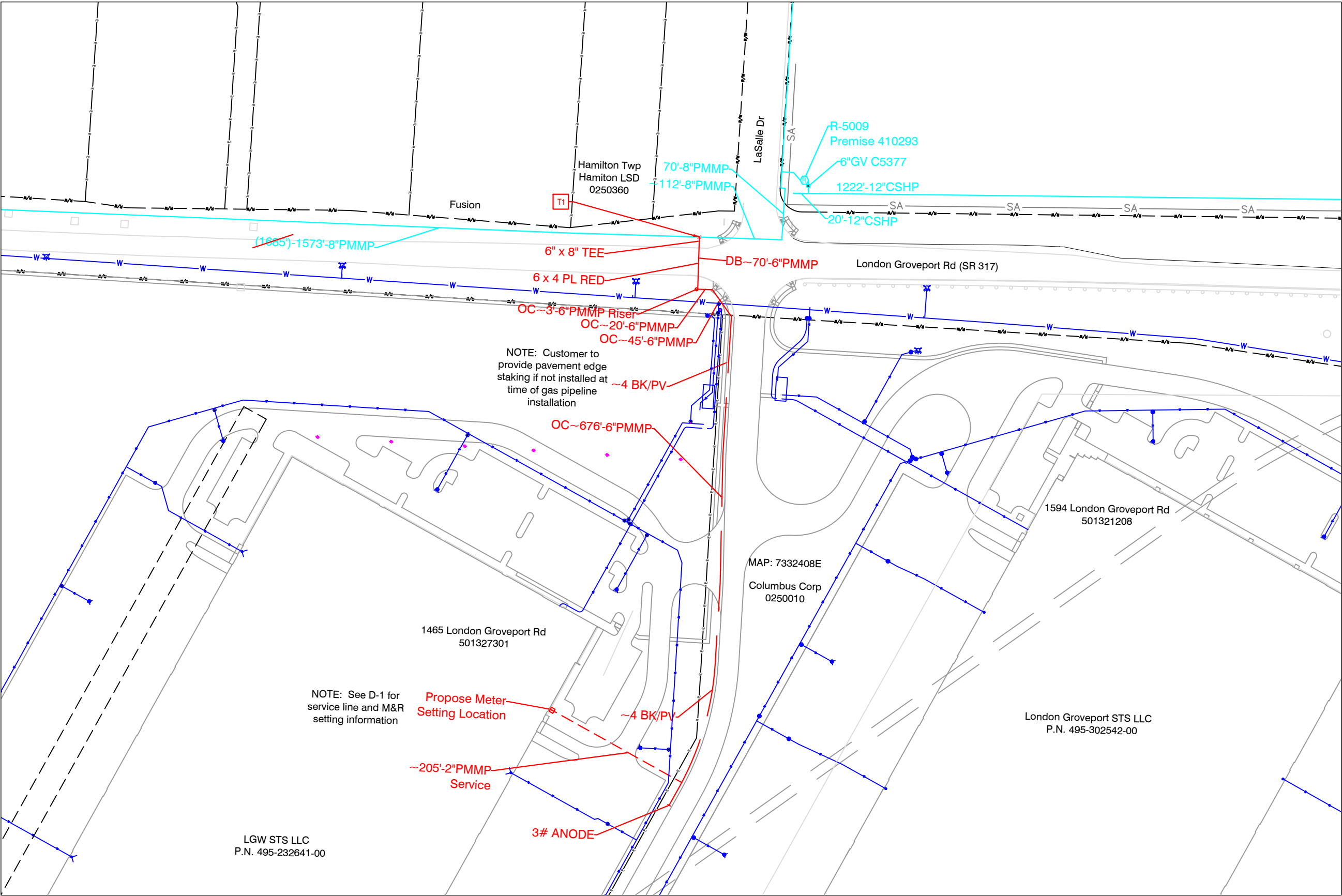
REVISIONS			
0			
REV. #	DATE	DESCRIPTION	

DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
MATERIAL INFORMATION

DRAWING NO:
BOM-1



NiSource

Ohio Utilities Protection Service
Call 811
before you dig



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		

DESIGNED BY	M F SUCHARSKI	04/14/2022	614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022	614-989-1327
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
LAYOUT SHEET

DRAWING NO:
L-1

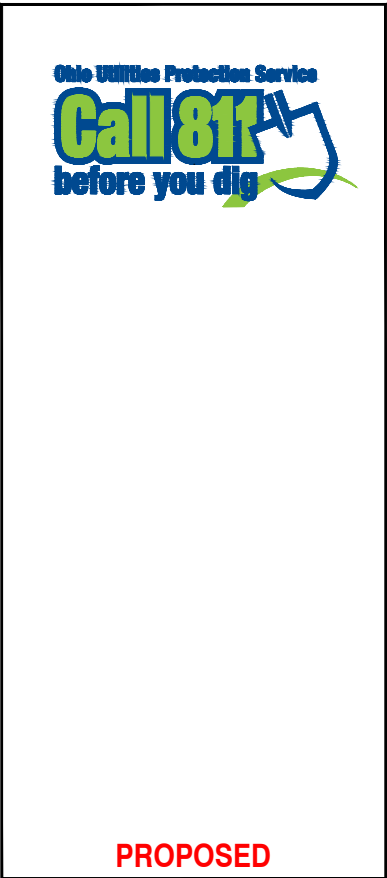
CONSTRUCTION DETAILS

3" 7M Rotary

2" CL34-2IM; 3/4" orifice; Green Spring; Load Ring @ 15 degrees; 2Psig Delivery

MET 14 Setting

~200'-2" PMMP service line with 2" Series10000 EFV



REVISIONS

0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	M F SUCHARSKI	04/14/2022	614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022	614-989-1327
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 22-0082882-00

ABAN# NA

PROJECT ID# 22-87265

NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:

CONSTRUCTION DETAILS

DRAWING NO:

D-1

CONSTRUCTION DETAILS



PROPOSED

REVISIONS		
0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
CONSTRUCTION
DETAILS

DRAWING NO:
D-2



INSTALLATION ORDER NUMBER 22-0082882-00
ABANDONMENT ORDER NUMBER NA
PROJECT ID 22-87265
NB_LGR WEST
JOB TYPE: NEW BUSINESS (555)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN: JAMES MALTRY
CONSTRUCTION FLL: MATT ALIFF
PERMITS: ODOT PERMIT
TCC/LOA: 0822
COUNTY: FRANKLIN COUNTY (049)
TAX DISTRICT/TOWNSHIP ID: 0250010
MAP/GRID NUMBER: 7332408E
24 HR. EMERGENCY LINE: 1-800-344-4077

VALVES PLANNED FOR ABANDONMENT

VALVE NO.	FACILITY ID	LOCATION DESCRIPTION	ABANDONED VALVE INSERTED?		DISPOSITION			
			YES*	NO	VALVE REMOVED (NO BOX, ABOVE GROUND VALVE)	VALVE VALVE BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX FILLED W/ CONCRETE
#		No Valves to be Abandoned						
#								
#								
#								
#								

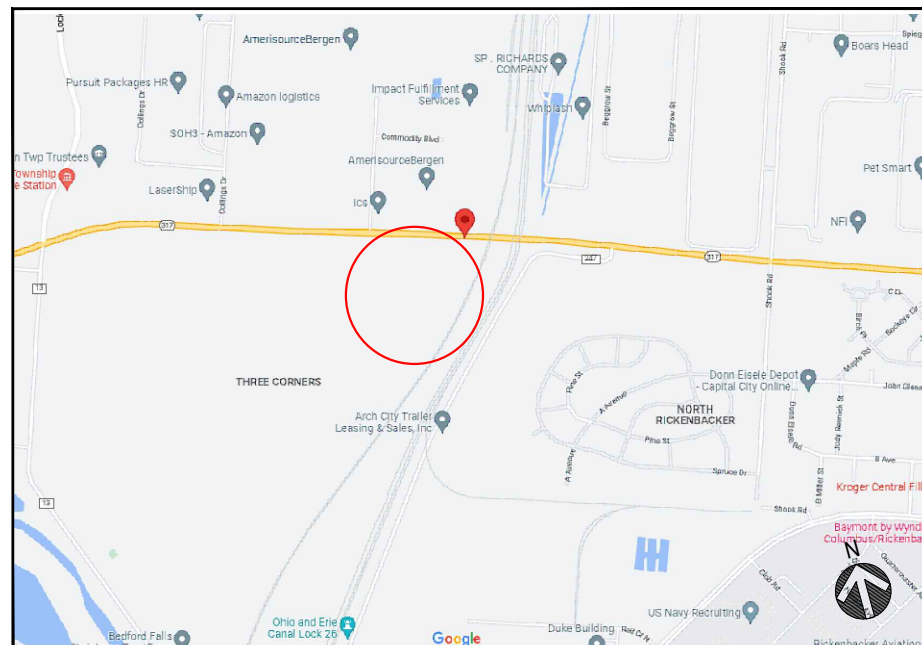
* - IF "YES," APPROVAL AND REASON ARE REQUIRED AND SHALL BE DOCUMENTED.
NOTE: IF VALVE COULD NOT BE LOCATED, MAKE APPLICABLE COMMENT IN ABOVE TABLE.

PROPOSED FACILITIES - SYSTEM MOP AND PRESSURE TEST DATA

SYSTEM NUMBER	34625011
SYSTEM NAME	GROVEPORT-EASTPORT BUSINESS PARK MP
SYSTEM MOP (PSIG)	60
SEGMENT MAOP (PSIG)	60
MINIMUM TEST PRESSURE (PSIG)	90
MAXIMUM TEST PRESSURE (PSIG)	125

VICINITY MAP

SCALE: NTS



PROJECT DESCRIPTION

INSTALL ~811'-4"PMMP; DIRECTIONAL BORE & OPEN CUT, SEWER CAMERA
ODOT PERMIT, EASEMENT REQUIRED;
TIE_IN ON 8-INCH

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
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PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
811'	6"	PL	0'	0"	
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PROPOSED GAS SERVICES					
	REPLACEMENTS	TIE OVERS	TOTAL SERVICES	METER OUTS	
ESTIMATED GAS SERVICES	0	0	1	0	

MATERIAL APPROVED FOR USE ON THIS JOB ORDER IS LIMITED TO WHAT IS LISTED IN THE BILL OF MATERIALS IN THIS DRAWING.

ANY ADDITIONAL MATERIAL MUST BE APPROVED FOR USE BY THE P.E. RESPONSIBLE FOR THIS PROJECT.



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		
DESIGNED BY	J MALTRY	08/04/2022513-991-9650
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327
CHECKED BY	DAN HARTMANN	X X
AS-BUILT BY	X	X X
	NAME	DATE PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, FRANKLIN (049)

DRAWING TITLE:
TITLE SHEET

DRAWING NO:
T-1

General Notes

1.

Deviation from NiSource CAD Standards is at discretion of reviewing Professional Engineer.
2.

Refer to project documentation for the associated Environmental Compliance Plan (ECP) and any project-specific documentation.
3.

The proposed gas facility locations shown are approximate and are subject to change.
4.

Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate and not to scale.
5.

Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
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All NiSource design codes and standards will be adhered to as applicable.

9.

Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.

10.

Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:
- F - FRONT

CLP - CENTER OF PAVEMENT

D - DRIVEWAY EDGE

BK - BACK

CLR - CENTER OF RIGHT-OF-WAY

EP - EDGE OF PAVEMENT

L - LEFT

CEL - CENTER OF EASTBOUND LANE

ES - EDGE OF SIDEWALK

R - RIGHT

CWL - CENTER OF WESTBOUND LANE

PL - PROPERTY LINE

B - BUILDING EDGE

CNL - CENTER OF NORTHBOUND LANE

CU - CURB

CSL - CENTER OF SOUTHBOUND LANE
- Drawing Revision Conditions:
1.

If, during the course of project construction, anticipated changes to project plans result in complex project criteria being met as defined by NiSource Gas Standard 2810.050 "Stakeholder Reviews of Design Capital Projects," the changes shall not be implemented until revised project documentation is reviewed by the Project Engineer and approved by a Professional Engineer as necessary.

2.

Any additional gas pressure containing material not listed on the project Bill of Materials must be reviewed by the Project Engineer and reviewing Professional Engineer prior to use.

3.

Any significant changes to proposed primary pipeline installation methods and location must be reviewed by the Project Engineer and reviewing Professional Engineer.

4.

Any significant changes to proposed project scope must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes to project scope may include changes to proposed design pressure, change of proposed pipe size and material affecting system hydraulics, and the addition or removal of significant amounts of pipeline installation or abandonment.

5.

Any significant changes to proposed tie-ins must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes may include the following: addition or removal of a tie-in, change in proposed tie-in material, change in proposed tie-in method, and change in tie-in location if system hydraulics may be affected.
- Project Specific Drawing Revision Conditions (add below items to Drawing Revision Conditions notes as applicable):
6.

This project involves the installation of facilities within private rights-of-way as indicated by the proposed installation drawing. If, during the course of installation, it is found that the installation must deviate from the planned location within the private right-of-way, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.

7.

This project involves the installation of facilities in permitted locations within public right-of-way. If, during the course of installation, it is found that the installation must deviate from the permitted location, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.
- Environmental Notes
1.

All NiSource construction activities must be completed in accordance with the Environmental Construction Standards (HSE 4440.020) and the project Environmental Compliance Plan (ECP). Said ECP shall be provided by others.

2.

The project ECP and any site-specific erosion control drawings, must be provided to the contractor with the project drawings for review and planning prior to the start of construction activities. This includes any tree clearing activities required prior to the start of facility construction activities.

3.

The project ECP and any associated drawings must be reviewed with construction, the contractor, and an environmental representative prior to the start of construction activities.

4.

These documents must remain on site for the duration of the construction project, and any project scope changes, with the potential to impact the requirements of the ECP or environmental drawings, must be coordinated with an environmental representative prior to completion.
- DRAWING LEGEND
- Gas Main Symbology
- Existing Gas Main

Existing Gas Main to Be Abandoned

Proposed Gas Main

Proposed Gas Main Uprate
- Gas Main Material/Pressure Label References
- MATERIAL CODES
- CS*

Coated Steel Gas Main

WT*

Weld Treated Gas Main

CI*

Cast Iron Gas Main

BS*

Bare Steel Gas Main

WI*

Wrought Iron Gas Main

PH*

High Density Polyethylene Gas Main

PM*

Medium Density Polyethylene Gas Main
- PRESSURE CODES
- *LP

Low Pressure

*IP

Intermediate Pressure

*MP

Medium Pressure

*HP

High Pressure
- MISCELLANEOUS CODES
- *-SER

Service

*-R

Riser

(TC)

Transmission Class
- Gas Main Installation Method Label References
- AT

Attached

BH

Bridge Hanger

BLGH

Building Hanger

DB

Directional Bore

IS

Inserted

OC

Open Cut

PB

Pneumatic Bore

PL

Plowed

RT

Roof Top

(E)

Existing

(P)

Proposed
- W1

Weld Location

T1

Gas Main Tie-in Location

A1

Gas Main Abandonment Location
- Gas Facility Symbology
- x"GV

Gas Valve

x"Pv

Critical Gas Valve

(Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)

x"HVTT

High Volume Tapping Tee

x"SST

Pressure Control Fitting - ShortStopp Tee

x"SPH

Pressure Control Fitting - Spherical Tee

x"MF-BO

Pressure Control Fitting - Mueller Bottom-out

x"MF-SO

Pressure Control Fitting - Mueller Side-out

x"MF-FT

Pressure Control Fitting - Mueller Flange Tee

x"SS

Pressure Control Fitting - ShortStopp

x"MF

Pressure Control Fitting - Mueller Stopper

x"x x" POLYTAP

Polytapp Side Saddle Fitting

Transition

-

End Cap

o

Riser

◄

Reducer

EM

Electronic Marker

TWS

Flush-mounted Tracer Wire Station

↑

Post Pipeline Marker with Tracer Wire

MM

Gas Main Marker without Tracer Wire

(W)

Test Well

(R)

Regulator Station

(R)

Single Customer Regulator

(M)

Meter

(MR)

Meter with Regulator

ƒ

Test Point (Station)

⌚

Gas Service Tie-over

(R)

Gas Service Replacement

MMO

Meter Move Out
- Swing Tie Symbology
- ⌚

Telephone Manhole

⓪

Drain Manhole

ⓔ

Electric Manhole

Ⓢ

Catch Basis

Ⓢ

Sewer Manhole

Ⓢ

Fire Hydrant

Ⓢ

Utility Pole

Ⓢ

Property Marker

Ⓢ

Telephone Pedestal

Ⓢ

Television Pedestal

Ⓢ

Unknown Manhole

Ⓢ

Water Box

Ⓢ

Water Gate

Ⓢ

Electric Pedestal

Ⓢ

Iron Pin

Ⓢ

Light Pole
-
-
- PROPOSED
- | REVISIONS | | | |
|-------------|---------------|------------------------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 0 | | | |
| REV. # | DATE | DESCRIPTION | |
| DESIGNED BY | M F SUCHARSKI | 04/14/2022614-989-1327 | |
| DRAWN BY | M F SUCHARSKI | 04/14/2022614-989-1327 | |
| CHECKED BY | X | X | X |
| AS-BUILT BY | X | X | X |
| | NAME | DATE | PHONE # |
- | | | | |
|-------------------------|--|--|--|
| SITE NAME: | | | |
| INST# 22-0082882-00 | | | |
| ABAN# NA | | | |
| PROJECT ID# 22-87265 | | | |
| NB_LGR WEST | | | |
| GROVEPORT, COUNTY (049) | | | |
- | |
|----------------|
| DRAWING TITLE: |
| GENERAL NOTES |
- | |
|-------------|
| DRAWING NO: |
| GN-1 |
- 2/6/2021 - 11:17

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
STOP	W1-1	8F.05	30 x 30	30 x 30	30 x 30
STOP (on STOP/Slow Plaque)	W1-1	8F.05	30 x 30	30 x 30	30 x 30
YIELD	W1-2	8F.05	30 x 30	30 x 30	30 x 30
TO DISPERSE TRAFFIC	W1-3	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-4	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-5	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-6	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-7	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-8	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-9	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-10	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-11	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-12	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-13	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-14	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-15	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-16	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-17	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-18	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-19	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-20	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-21	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-22	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-23	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-24	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-25	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-26	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-27	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-28	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-29	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-30	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-31	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-32	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-33	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-34	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-35	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-36	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-37	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-38	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-39	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-40	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-41	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-42	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-43	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-44	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-45	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-46	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-47	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-48	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-49	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-50	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-51	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-52	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-53	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-54	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-55	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-56	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-57	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-58	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-59	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-60	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-61	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-62	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-63	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-64	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-65	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-66	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-67	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-68	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-69	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-70	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-71	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-72	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-73	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-74	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-75	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-76	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-77	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-78	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-79	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-80	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-81	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-82	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-83	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-84	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-85	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-86	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-87	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-88	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-89	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-90	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-91	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-92	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-93	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-94	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-95	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-96	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-97	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-98	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-99	8F.05	30 x 30	30 x 30	30 x 30
NO STOP ON STOP	W1-100	8F.05	30 x 30	30 x 30	30 x 30

Figure 6C-1. Component Parts of a Temporary Traffic Control Zone

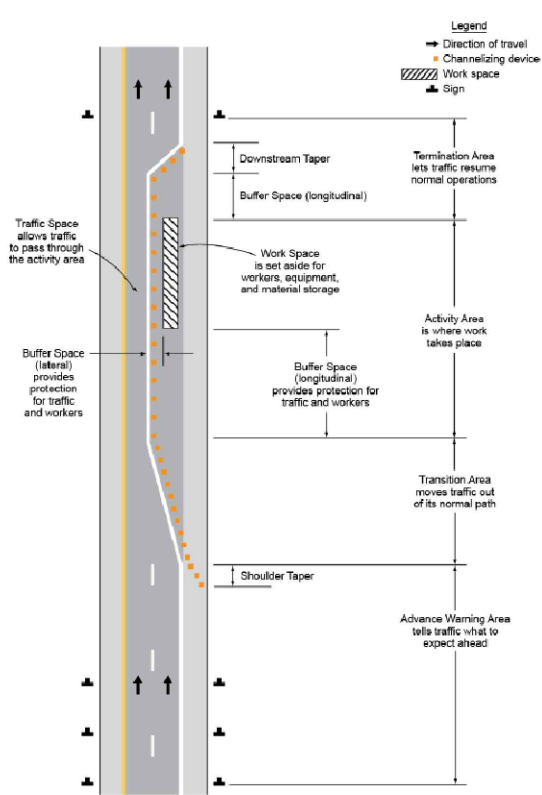


Figure 6C-2. Types of Tapers and Buffer Spaces

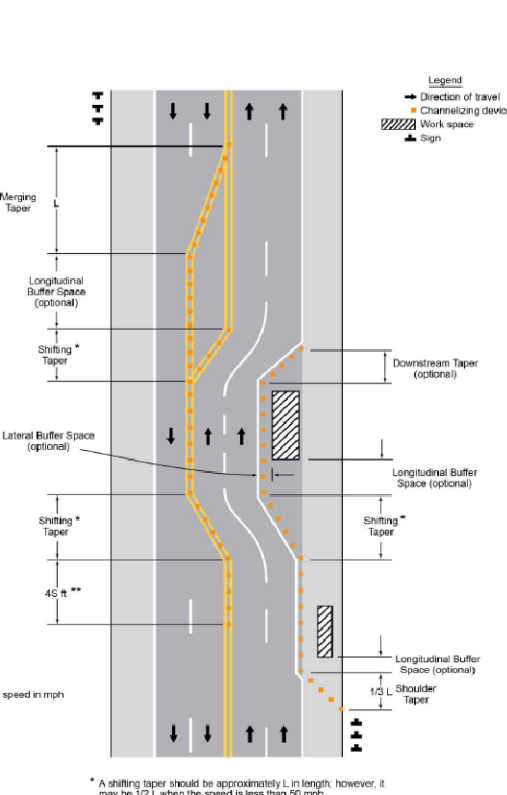


Figure 6E-3. Use of Hand-Signaling Devices by Flaggers

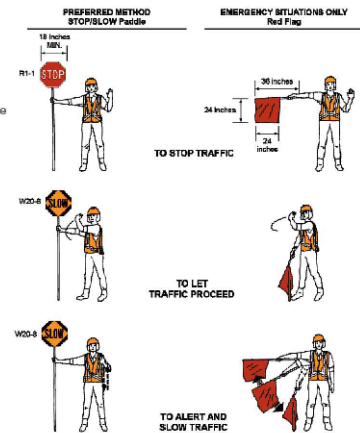


Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board	Shadow vehicle
Arrow board support or trailer (shown facing down)	Sign (shown facing left)
Changeable message sign or trailer	Surveyor
Channelizing device	Temporary barrier
Crash cushion	Temporary barrier with warning light
Direction of temporary traffic detour	Traffic or pedestrian signal
Direction of traffic	Truck-mounted attenuator
Flagger	Type 3 barricade
High-level warning device (flag tree)	Warning light
Longitudinal channelizing device	Work space
Luminaire	Work vehicle
Pavement markings that should be removed for a long-term project	

Table 6C-1. Recommended Advance Warning Sign Minimum Spacing

Road Type	A	B	C
Urban (low speed) *	100 feet	100 feet	100 feet
Urban (high speed) *	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

Table 6C-3. Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length
Merging Taper	at least L
Shifting Taper	L; however, may be 1/2 L when speed is < 60 mph
Shoulder Taper	at least 1/3 L
One-Lane, Two-way Traffic Taper	50 feet minimum; 100 feet maximum
Downstream Taper	50 feet minimum; 100 feet maximum

Table 6C-4. Formulas for Determining Taper Length

Speed Limit (S)	Taper Length (L) in Feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

Figure 6F-1. Height and Lateral Location of Signs—Typical Installations

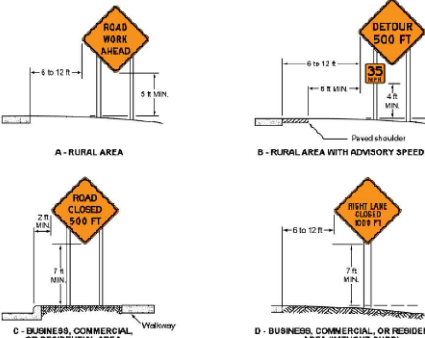


Figure 6F-2. Methods of Mounting Signs Other than on Posts

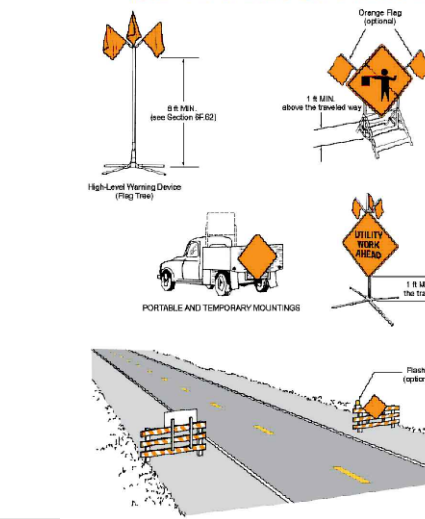


Figure 6F-3. Channelizing Devices

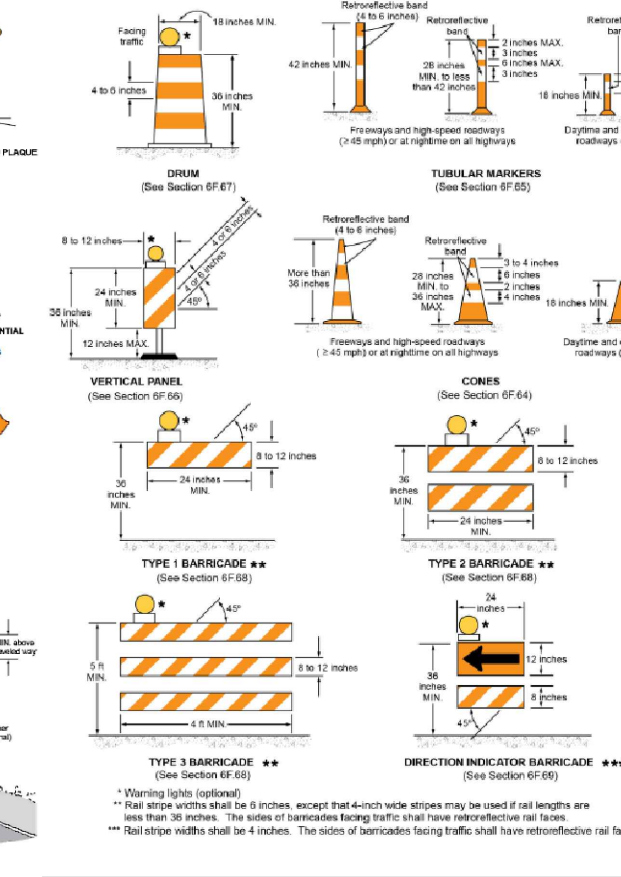


Figure 6F-4. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 1 of 3)

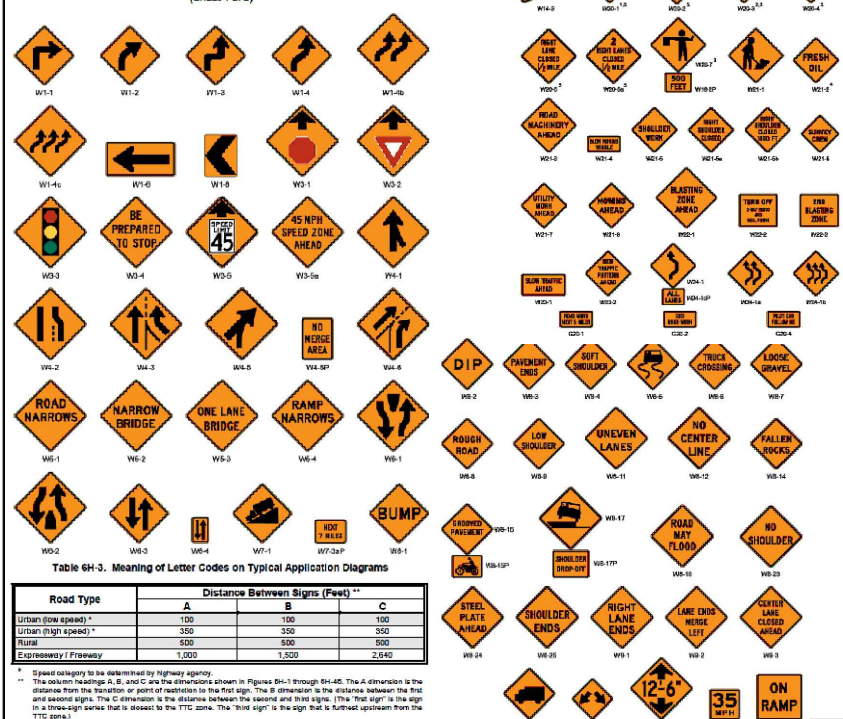


Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	A	B	C
Urban (low speed) *	100	100	100
Urban (high speed) *	350	350	350
Rural	500	500	500
Expressway / Freeway	1,000	1,500	2,640

niSource

Ohio Utilities Protection Service
Call 811
before you dig

PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		

DESIGNED BY	M F SUCHARSKI	04/14/2022	614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022	614-989-1327
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
CONSTRUCTION DETAILS

DRAWING NO:

MN-1



REVISIONS

REVISIONS			
0			
REV. #	DATE	DESCRIPTION	
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-13	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-13	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:

LAYOUT SHEET

DRAWING NO: M-1

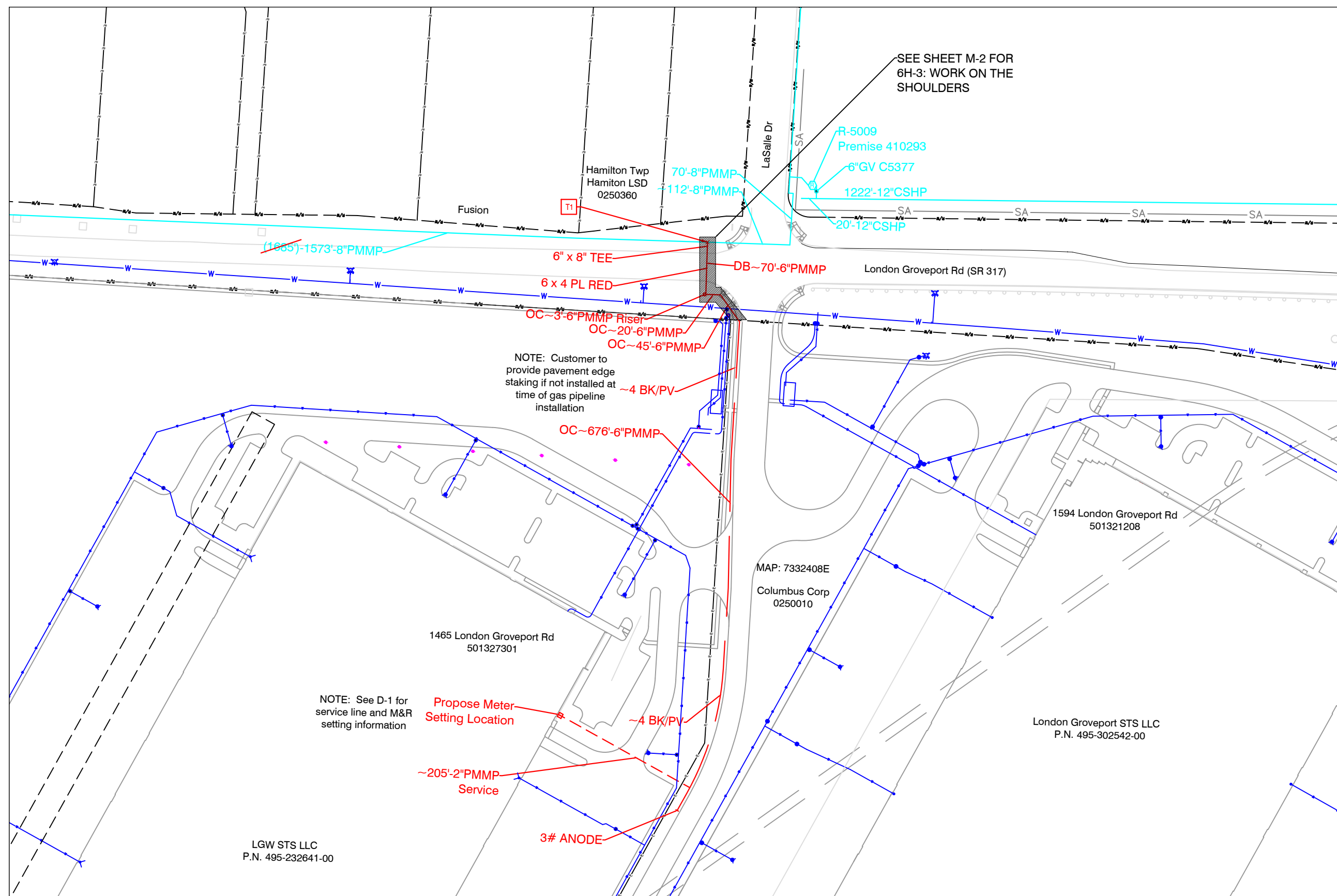
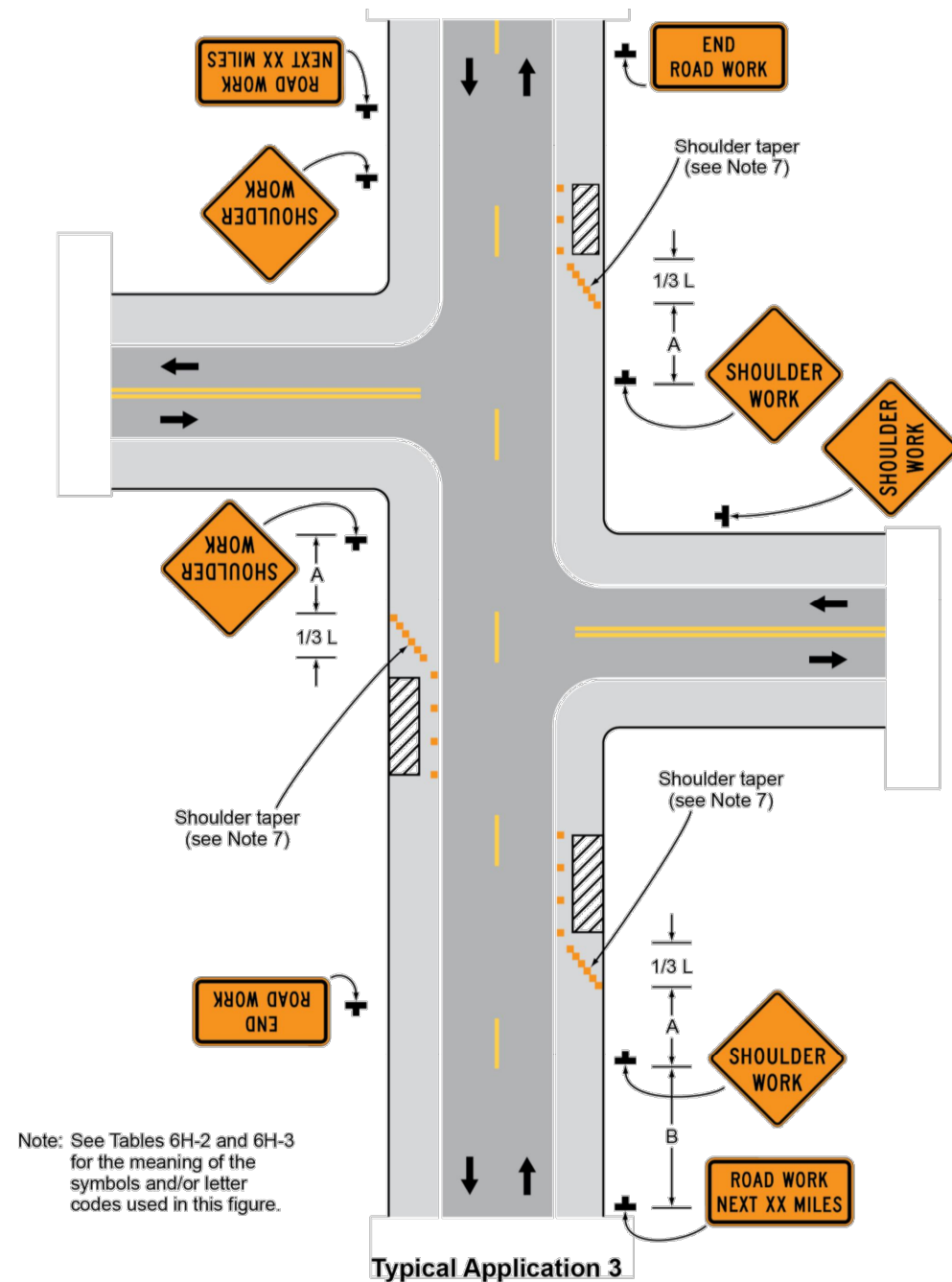


Figure 6H-3. Work on the Shoulders (TA-3)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Notes for Figure 6H-3—Typical Application 3 Work on the Shoulders

Guidance:

1. A **SHOULDER WORK** sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

Option:

2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short-duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
7. When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.



PROPOSED

REVISIONS			
0			
REV. #	DATE	DESCRIPTION	
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-13	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-13	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE

SITE NAME:

INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
 NB_LGR WEST
 GROVEPORT, COUNTY (049)

DRAWING TITLE:

LAYOUT SHEET

DRAWING NO:

M-2



Ohio Department of Transportation District Six
Permit and Local Let
Closure and Restriction Notification Form



* Indicates a Mandatory Field

* Permit Number

* County

City

[Find](#) Coordinates

* Road (SR, US, or I-)

* Road Status

Type of work

* Work completed by

Maintenance of Traffic (MOT)

* Your Name

* Your Email

* Your Phone Number

Your Cell Phone Number

* Date

* Time

* Traffic Restriction Start Date/Time

* Traffic Restriction Completion Date/Time

* Are Restrictions 24-hours a Day

☒ No☐ Yes

please clarify below in the description

Start Mile Marker (SLM)

* Closest Intersecting Road

End Mile Marker (SLM)

* Closest Intersecting Road

* Direction

* Lanes of Traffic Maintained

Include total number of lanes available
(E.G. 1 of 2 lanes maintained) If project has both directions specify for each

* Person Responsible for work

(This is the contact name for the person on site E.G. contractor or permit holder)

* On Site Phone Number (with area code)

* Description of Work

The following information is additional required information for special hauls.

* Lane Closure/Restrictions

If there is a restriction, specify available lane width

Available Lane Width (edge line to edge line)

Feet: Inches:

Available Pavement Width

Feet: Inches:

* Ramp Closure/Restrictions:

If there is a restriction, specify available lane width

Available Lane Width (edge line to edge line)

Feet: Inches:

Available Pavement Width

Feet: Inches:

Bridge Work

Vertical Bridge Clearance

Available Roadway Width

* Bridge Direction

* Listed Detour if Applicable: (if not applicable state N/A)

Additional Closure/Restriction Information:

* What type of Traffic control is being utilized? (e.g. portable barrier, drums, temp signal, flaggers etc.)

* What standard construction drawings are being used and/or Typical Applications (TAs) If SCD or TAs are not applicable MOT drawings must be attached

* Who will be setting up the Traffic control? (List name of contractor or subcontractor and contact number.)

TYPICAL APPLICATIONS FOR MAINTENANCE OF TRAFFIC

THE FOLLOWING TYPICAL APPLICATION(S) FROM THE 2012 EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES & ODOT OFFICE OF ROADWAY ENGINEERING STANDARD CONSTRUCTION DRAWINGS SHOULD BE USED, AS NECESSARY, FOR TRAFFIC CONTROL ON THIS PROJECT AS DESCRIBED IN THE MANUAL:

TA-1 – WORK BEYOND THE SHOULDER

TA-3 – WORK ON THE SHOULDER

AT NO TIME SHALL THE ROADWAY/PAVEMENT BE OPEN CUT TO COMPLETE THE UTILITY INSTALLATION. IF OPEN CUT OF THE ROADWAY/PAVEMENT IS REQUIRED, THE APPLICANT SHALL RESUBMIT THE APPLICATION WITH THE APPROPRIATE DOCUMENTS.

HOURS OF OPERATION IN ROW

ALLOWABLE HOURS FOR ALL WORK SHALL BE FROM 9AM TO 3PM & 6PM TO 5AM M-F, ALL DAY SAT & SUN.

CITY OF COLUMBUS OCCUPANCY PERMIT

TO WORK WITHIN THE CITY OF COLUMBUS, THE APPLICANT MUST ALSO OBTAIN AN OCCUPANCY PERMIT FROM THE CITY OF COLUMBUS PERMIT DEPARTMENT.

LANES OPEN DURING HOLIDAYS AND SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

HOLIDAYS

NEW YEAR'S (OBSERVED)

TOTAL SOLAR ECLIPSE (4/8/24)

MEMORIAL DAY

FOURTH OF JULY (OBSERVED)

LABOR DAY

GENERAL/REGULAR ELECTION DAY (NOV)

THANKSGIVING

CHRISTMAS (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)	12:00 NOON FRIDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER, COUNTY MANAGER, THE DISTRICT 6 PUBLIC INFORMATION OFFICE AT D06.PIO@DOT.OHIO.GOV AND THE DISTRICT WORK ZONE TRAFFIC MANAGER AT D06.MOT@DOT.OHIO.GOV IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER OR ODOT.

NOTIFICATION TIME FRAME TABLE			
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE	
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT MANAGER, COUNTY MANAGER, THE DISTRICT 6 PUBLIC INFORMATION OFFICE AND THE DISTRICT WORK ZONE TRAFFIC MANAGER USING THE NOTIFICATION TIME FRAME TABLE.

APPLICANT SHALL FILL OUT AND SUBMITTED TO PIO & DWZTM ODOT *DISTRICT SIX - PERMIT AND LOCAL LET CLOSURE AND RESTRICTION* FORM WHEN NOTIFYING THEM OF THE UPCOMING TRAFFIC RESTRICTION.

PERSONAL PROTECTIVE EQUIPMENT

ODOT REQUIRES ALL CONTRACTORS' PERSONNEL TO WEAR THE CORRECT PPE WHILE WITHIN ODOT RIGHT-OF-WAY. ALL VEHICLES SHALL HAVE THE CORRECT SAFETY EQUIPMENT ALSO.

BORE PITS, EARTHWORK AND TRENCHES BEYOND THE SHOULDER

BORE PITS, EARTHWORK AND TRENCHES WITHIN ODOT RIGHT-OF-WAY MUST BE OUTSIDE OF THE DITCH SECTION AND PROTECTED IN ACCORDANCE WITH ODOT'S STANDARD CONSTRUCTION DRAWING MT-101.90. "DROPOFFS IN WORK ZONES".

- A PIT/TRENCH 4 TO 12 FEET FROM THE EDGE OF TRAVELED LANE AND GREATER THAN 12 INCHES DEEP MUST HAVE DRUMS DURING THE DAY AND PCB AT NIGHT UNLESS SECURELY PLATED OR BACKFILLED TO WITHIN 12 INCHES. SEE MT-101.90 FOR ADDITIONAL INFORMATION.
- A PIT/TRENCH 12 TO 30 FEET FROM THE EDGE OF TRAVELED LANE AND GREATER THAN 24 INCHES DEEP MUST HAVE DRUMS DURING THE DAY AND PCB AT NIGHT UNLESS SECURELY PLATED OR BACKFILLED TO WITHIN 24 INCHES. SEE MT-101.90 FOR ADDITIONAL INFORMATION.

THE LENGTH OF THE TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

VEHICLE PARKING

VEHICLES ARE NOT TO BE PARKED ON THE PAVEMENT. ALL VEHICLES ARE TO BE PARKED AT LEAST 5 FEET FROM THE EDGE OF PAVEMENT.

ACCESS TO PRIVATE PROPERTY

ACCESS TO DRIVES SHALL BE MAINTAINED VIA EXISTING PAVEMENT, TEMPORARY PAVEMENT OR ITEM 304. IN THE EVENT THAT A DRIVE CANNOT BE MAINTAINED AND A CLOSURE IS NEEDED THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

COMMERCIAL PROPERTY WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE CLOSED WHEN WORKING IN THE AREA OF THE DRIVE. COMMERCIAL PROPERTY WITH ONLY ONE DRIVEWAY OR DRIVEWAYS WITH ONE DIRECTION TRAFFIC USE WILL BE CONSTRUCTED PART WIDTH. THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. WHEN A RESIDENTIAL DRIVE IS CLOSED FOR CONSTRUCTION, MAINTAIN ALTERNATE ACCESS TO THE PROPERTY. IT MAY BE REQUIRED FOR THE CONTRACTOR TO MAINTAIN ONE PASSABLE LANE WITHIN A CLOSURE IN ORDER FOR VEHICLES TO ACCESS RESIDENCY WITH A VEHICLE.

SUCCESSFULLY NOTIFY THE OCCUPANTS/OWNERS OF COMMERCIAL OR RESIDENTIAL DRIVES TO BE CLOSED AND COORDINATE THE CLOSURE AT LEAST 48 HOURS BEFORE THE CLOSURE BEGINS (SIMPLY LEAVING A WRITTEN NOTICE OR PHONE MESSAGE IS NOT SUFFICIENT). COORDINATE ALTERNATE ACCESS TO RESIDENTIAL PROPERTIES WITH THE OWNER/OCCUPANT.

PROTECTION FROM DROP OFF CONDITIONS IN THE WORK ZONE

ALL DROP-OFF CONDITIONS WITHIN THE WORK ZONE MUST BE PROTECTED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-101.90.

MUD, DIRT AND DEBRIS

THE TRACKING OR SPILLAGE OF MUD, DIRT OR DEBRIS UPON STATE HIGHWAYS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

GENERAL LANE CLOSURE POLICIES

TRAFFIC BACK-UPS CAUSED BY THEIR OPERATION OF OVER 0.75 MILES IN LENGTH ANY TIME IS NOT PERMITTED. ODOT RESERVES THE RIGHT TO REVOKE THE PERMIT IF THE MOT GUIDELINES ARE NOT MET.



INSTALLATION ORDER NUMBER 22-0082882-00
ABANDONMENT ORDER NUMBER NA
PROJECT ID 22-87265
NB_LGR WEST
JOB TYPE: NEW BUSINESS (555)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN: JAMES MALTRY
CONSTRUCTION FLL: MATT ALIFF
PERMITS: ODOT PERMIT
TCC/LOA: 0822
COUNTY: FRANKLIN COUNTY (049)
TAX DISTRICT/TOWNSHIP ID: 0250010
MAP/GRID NUMBER: 7332408E
24 HR. EMERGENCY LINE: 1-800-344-4077

VALVES PLANNED FOR ABANDONMENT

VALVE NO.	FACILITY ID	LOCATION DESCRIPTION	ABANDONED VALVE INSERTED?		DISPOSITION			
			YES*	NO	VALVE REMOVED (NO BOX, ABOVE GROUND VALVE)	VALVE VALVE BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX FILLED W/ CONCRETE
#		No Valves to be Abandoned						
#								
#								
#								
#								

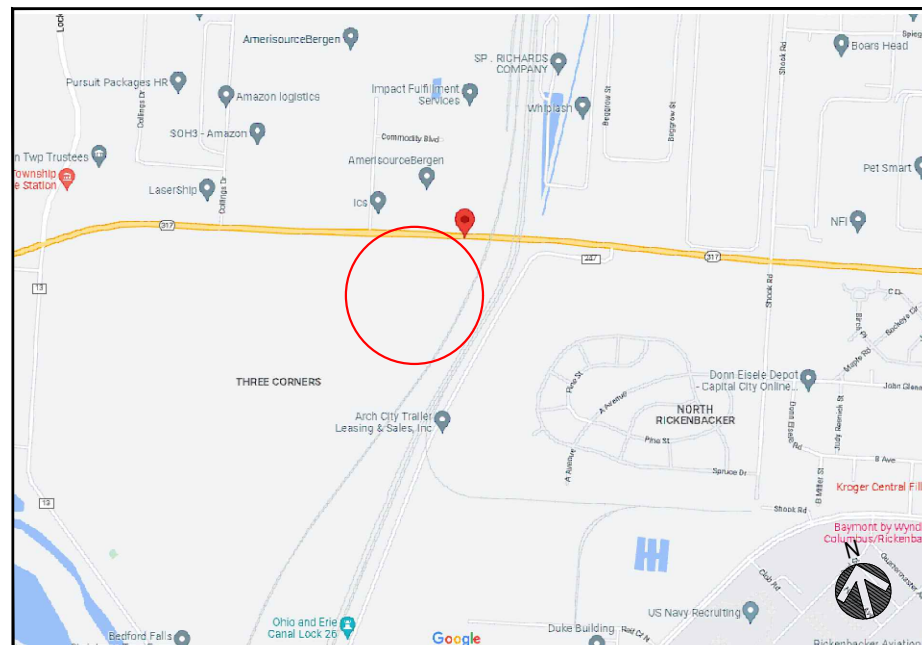
* - IF "YES," APPROVAL AND REASON ARE REQUIRED AND SHALL BE DOCUMENTED.
NOTE: IF VALVE COULD NOT BE LOCATED, MAKE APPLICABLE COMMENT IN ABOVE TABLE.

PROPOSED FACILITIES - SYSTEM MOP AND PRESSURE TEST DATA

SYSTEM NUMBER	34625011
SYSTEM NAME	GROVEPORT-EASTPORT BUSINESS PARK MP
SYSTEM MOP (PSIG)	60
SEGMENT MAOP (PSIG)	60
MINIMUM TEST PRESSURE (PSIG)	90
MAXIMUM TEST PRESSURE (PSIG)	125

VICINITY MAP

SCALE: NTS



PROJECT DESCRIPTION

INSTALL ~811'-4"PMMP; DIRECTIONAL BORE & OPEN CUT, SEWER CAMERA
ODOT PERMIT, EASEMENT REQUIRED;
TIE_IN ON 8-INCH

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
BOM-1	BILL OF MATERIALS
L-1	LAYOUT PLANS
D-1 - D-2	CONSTRUCTION DETAILS

PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
811'	6"	PL	0'	0"	
811'	TOTAL INSTALLATION (FEET)		0'	TOTAL ABANDONMENT (FEET)	
PROPOSED GAS SERVICES					
	REPLACEMENTS	TIE OVERS	TOTAL SERVICES	METER OUTS	
ESTIMATED GAS SERVICES	0	0	1	0	

MATERIAL APPROVED FOR USE ON THIS JOB ORDER IS LIMITED TO WHAT IS LISTED IN THE BILL OF MATERIALS IN THIS DRAWING.

ANY ADDITIONAL MATERIAL MUST BE APPROVED FOR USE BY THE P.E. RESPONSIBLE FOR THIS PROJECT.



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		
DESIGNED BY	J MALTRY	08/04/2022513-991-9650
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327
CHECKED BY	DAN HARTMANN	X X
AS-BUILT BY	X	X X
NAME		DATE PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, FRANKLIN (049)

DRAWING TITLE:
TITLE SHEET

DRAWING NO:
T-1

General Notes

1. Deviation from NiSource CAD Standards is at discretion of reviewing Professional Engineer.
2. Refer to project documentation for the associated Environmental Compliance Plan (ECP) and any project-specific documentation.
3. The proposed gas facility locations shown are approximate and are subject to change.
4. Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate and not to scale.
5. Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
6. Individual service line designs for services smaller than 3 inches in diameter are not provided by Engineering. These services shall be installed using the standard design criteria and material specified in the NiSource standards. Services 3 inches and larger in diameter shall be designed, reviewed, and represented on a separate plan set as necessary.
7. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:

Code of Federal Regulations (CFR)

49 CFR 192 Pipeline Safety Regulations

29 CFR 1910 Occupational Safety and Health Administration (OSHA)

American Society of Mechanical Engineers (ASME)

ASME B31.8 Gas Transmission and Distribution Piping Systems
8. All NiSource design codes and standards will be adhered to as applicable.
9. Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
10. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

F - FRONT

BK - BACK

L - LEFT

R - RIGHT

B - BUILDING EDGE

CU - CURB

CLP - CENTER OF PAVEMENT

CLR - CENTER OF RIGHT-OF-WAY

CEL - CENTER OF EASTBOUND LANE

CWL - CENTER OF WESTBOUND LANE

CNL - CENTER OF NORTHBOUND LANE

CSL - CENTER OF SOUTHBOUND LANE

Drawing Revision Conditions:

1. If, during the course of project construction, anticipated changes to project plans result in complex project criteria being met as defined by NiSource Gas Standard 2810.050 "Stakeholder Reviews of Design Capital Projects," the changes shall not be implemented until revised project documentation is reviewed by the Project Engineer and approved by a Professional Engineer as necessary.
2. Any additional gas pressure containing material not listed on the project Bill of Materials must be reviewed by the Project Engineer and reviewing Professional Engineer prior to use.
3. Any significant changes to proposed primary pipeline installation methods and location must be reviewed by the Project Engineer and reviewing Professional Engineer.
4. Any significant changes to proposed project scope must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes to project scope may include changes to proposed design pressure, change of proposed pipe size and material affecting system hydraulics, and the addition or removal of significant amounts of pipeline installation or abandonment.
5. Any significant changes to proposed tie-ins must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes may include the following: addition or removal of a tie-in, change in proposed tie-in material, change in proposed tie-in method, and change in tie-in location if system hydraulics may be affected.

Project Specific Drawing Revision Conditions (add below items to Drawing Revision Conditions notes as applicable):

6. This project involves the installation of facilities within private rights-of-way as indicated by the proposed installation drawing. If, during the course of installation, it is found that the installation must deviate from the planned location within the private right-of-way, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.
7. This project involves the installation of facilities in permitted locations within public right-of-way. If, during the course of installation, it is found that the installation must deviate from the permitted location, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.

Environmental Notes

1. All NiSource construction activities must be completed in accordance with the Environmental Construction Standards (HSE 4440.020) and the project Environmental Compliance Plan (ECP). Said ECP shall be provided by others.
2. The project ECP and any site-specific erosion control drawings, must be provided to the contractor with the project drawings for review and planning prior to the start of construction activities. This includes any tree clearing activities required prior to the start of facility construction activities.
3. The project ECP and any associated drawings must be reviewed with construction, the contractor, and an environmental representative prior to the start of construction activities.
4. These documents must remain on site for the duration of the construction project, and any project scope changes, with the potential to impact the requirements of the ECP or environmental drawings, must be coordinated with an environmental representative prior to completion.

DRAWING LEGEND

Gas Main Symbology

- Existing Gas Main
- Existing Gas Main to Be Abandoned
- Proposed Gas Main
- Proposed Gas Main Uprate

Gas Main Material/Pressure Label References

MATERIAL CODES

- CS* Coated Steel Gas Main
- WT* Weld Treated Gas Main
- CI* Cast Iron Gas Main
- BS* Bare Steel Gas Main
- WI* Wrought Iron Gas Main
- PH* High Density Polyethylene Gas Main
- PM* Medium Density Polyethylene Gas Main

PRESSURE CODES

- *LP Low Pressure
- *IP Intermediate Pressure
- *MP Medium Pressure
- *HP High Pressure

MISCELLANEOUS CODES

- *-SER Service
- *-R Riser
- (TC) Transmission Class

Gas Main Installation Method Label References

- AT Attached
- BH Bridge Hanger
- BLGH Building Hanger
- DB Directional Bore
- IS Inserted
- OC Open Cut
- PB Pneumatic Bore
- PL Plowed
- RT Roof Top
- (E) Existing
- (P) Proposed

- ←

W1

Weld Location
- ←

T1

Gas Main Tie-in Location
- ←

A1

Gas Main Abandonment Location

Gas Facility Symbology

- x"GV Gas Valve
- x"PVCritical Gas Valve
- (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
- x"HVTT High Volume Tapping Tee
- x"SST Pressure Control Fitting - ShortStopp Tee
- x"SPH Pressure Control Fitting - Spherical Tee
- x"MF-BO Pressure Control Fitting - Mueller Bottom-out
- x"MF-SO Pressure Control Fitting - Mueller Side-out
- x"MF-FT Pressure Control Fitting - Mueller Flange Tee
- x"SS Pressure Control Fitting - ShortStopp
- x"MF Pressure Control Fitting - Mueller Stopper
- x"x x" POLYTAP Polytapp Side Saddle Fitting
- Transition
- End Cap
- Riser
- Reducer
- Electronic Marker
- Flush-mounted Tracer Wire Station
- Post Pipeline Marker with Tracer Wire
- Gas Main Marker without Tracer Wire
- Test Well
- Regulator Station
- Single Customer Regulator
- Meter
- Meter with Regulator
- Test Point (Station)
- Gas Service Tie-over
- Gas Service Replacement
- Meter Move Out

Swing Tie Symbology

- Telephone Manhole
- Drain Manhole
- Electric Manhole
- Catch Basis
- Sewer Manhole
- Fire Hydrant
- Utility Pole
- Property Marker
- Telephone Pedestal
- Television Pedestal
- Unknown Manhole
- Water Box
- Water Gate
- Electric Pedestal
- Iron Pin
- Light Pole



PROPOSED


REVISIONS			
0			
REV. #	DATE	DESCRIPTION	
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:			
INST# 22-0082882-00			
ABAN# NA			
PROJECT ID# 22-87265			
NB_LGR WEST			
GROVEPORT, COUNTY (049)			

DRAWING TITLE:
GENERAL NOTES

DRAWING NO:
GN-1

BILL OF MATERIALS							
SSN	QTY	UNIT	SIZE (inches)	DESCRIPTION	CATEGORY	MAXIMUM ALLOWED PRESSURE (psig)	
09-45-065	0	FT	1	1" CTS X 250' COIL, .099 wt, PE2708, ASTM-D2513	Plastic Pipe	60	
09-45-332	811	FT	6	6" IPS X 40' JOINT, .491 wt, SDR13.5, PE2708, ASTM-D2513	Plastic Pipe	60	
16-09-003	1	EA	6	6" IPS, MT DEASON POLYTAPP, FULL-PORT BALL VALVE, ELECTROFUSE x THREAD, SDR 11, PE4710, ASTM D2513	Ball Valve	99	
21-83-408	1	EA	8x6	8"x6" IPS, MT DEASON, ELECTROFUSION BRANCH SADDLE, PE 4710, ASTM D2513, SDR 11	Saddle	99	
42-53-303	1	EA	---	3 TAPE BURIED GA	Not Available	Not Available	
42-77-553	4	EA	---	POST-OH PIPELINE	Not Available	Not Available	
43-02-0303	1	EA	2	2" IPS, BUTT FUSE, END CAP, SDR 11, PE2708, ASTM D2513	End Cap	60	
43-02-0453	2	EA	6	6" IPS, BUTT FUSE, END CAP, SDR 13.5, PE2708, ASTM D2513	End Cap	60	
43-02-1153	6	EA	1	1" CTS, SOCKET FUSE, END CAP, PE2708, ASTM D2513	End Cap	60	
43-04-1153	3	EA	1	1" CTS Socket Fusion Coupling PE 2708	Coupling	60	
43-04-2453	4	EA	6	6" IPS, ELECTROFUSE, BLACK HIGH DENSITY COUPLING, FOR USE ON PE4710 & PE 2708, ASTM D2513	Coupling	99	
43-06-0453	5	EA	6	6" IPS, BUTT FUSE, 90 DEGREE ELBOW, SDR 13.5, PE2708, ASTM D2513	Elbow 90	60	
43-08-0453	2	EA	6	6" IPS, BUTT FUSE, 45 DEGREE ELBOW, SDR 13.5, PE2708, ASTM D2513	Elbow 45	60	
44-61-415	1	EA	---	6B&T V/B 8"VL 36	Not Available	Not Available	
74-47-512	1	RL	---	#8 DIR BORE WIRE	Not Available	Not Available	
74-80-103	2	EA	6x1	6" IPS x 1" CTS, ELECTROFUSE, SERVICE TAPPING TEE w/ PROTECTIVE SLEEVE & 4in MARKER BALL, PE 2708, ASTM D2513	Service Tee	60	
74-80-104	2	EA	8x1	8" IPS x 1" CTS, ELECTROFUSE, SERVICE TAPPING TEE w/ PROTECTIVE SLEEVE & 4in MARKER BALL, PE 2708, ASTM D2513	Service Tee	60	
74-80-105	6	EA	---	4" ELECTRONIC MR	Not Available	Not Available	
Note 1: Maximum Allowed Pressure values are the maximum pressure for which a component can be used in a NiSource system. Values are determined by manufacturer ratings, design pressure calculations, and in the case of steel pipe/fittings; the Maximum Allowed Pressure has been established by calculating a pressure that keeps the SMYS below 20%, i.e. non-transmission classification.							
Note 2: Material quantities listed are for reference only.							



Ohio Utilities Protection Service

Call 811

before you dig

PROPOSED

REVISIONS

0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 22-0082882-00

ABAN# NA

PROJECT ID# 22-87265

NB_LGR WEST

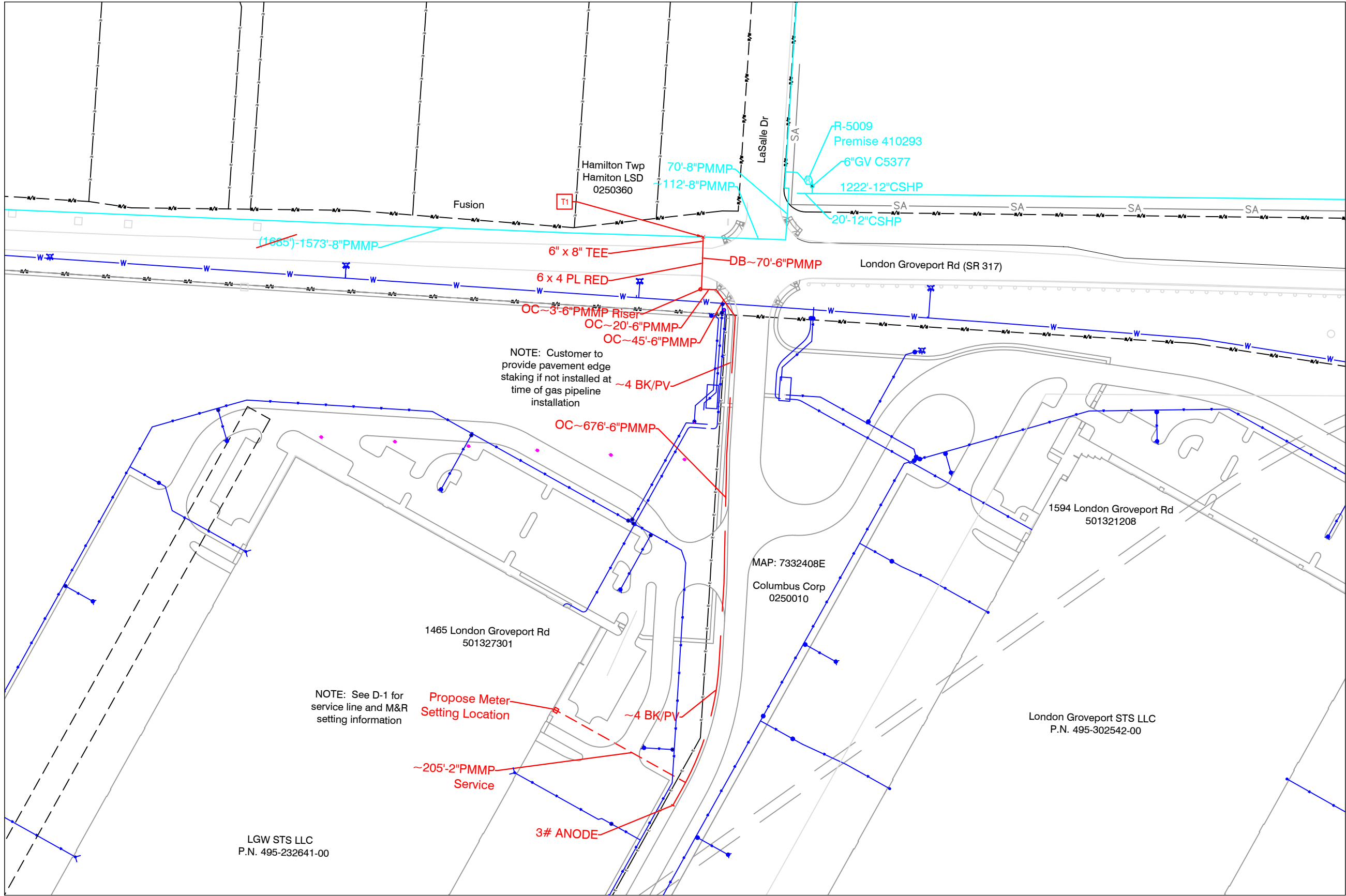
GROVEPORT, COUNTY (049)

DRAWING TITLE:

MATERIAL INFORMATION

DRAWING NO:

BOM-1



NiSource

Ohio Utilities Protection Service
Call 811
before you dig



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		

DESIGNED BY	M F SUCHARSKI	04/14/2022	614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022	614-989-1327
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
LAYOUT SHEET

DRAWING NO:
L-1

CONSTRUCTION DETAILS

3" 7M Rotary
2" CL34-2IM; 3/4" orifice; Green Spring; Load Ring @ 15 degrees; 2Psig Delivery
MET 14 Setting
~200'-2" PMMP service line with 2" Series10000 EFV



PROPOSED

REVISIONS		
0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	M F SUCHARSKI	04/14/2022	614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022	614-989-1327
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
CONSTRUCTION
DETAILS

DRAWING NO:
D-1

CONSTRUCTION DETAILS



PROPOSED

REVISIONS		
0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
CONSTRUCTION
DETAILS

DRAWING NO:
D-2



INSTALLATION ORDER NUMBER 22-0082882-00
ABANDONMENT ORDER NUMBER NA
PROJECT ID 22-87265
NB_LGR WEST
JOB TYPE: NEW BUSINESS (555)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN: JAMES MALTRY
CONSTRUCTION FLL: MATT ALIFF
PERMITS: ODOT PERMIT
TCC/LOA: 0822
COUNTY: FRANKLIN COUNTY (049)
TAX DISTRICT/TOWNSHIP ID: 0250010
MAP/GRID NUMBER: 7332408E
24 HR. EMERGENCY LINE: 1-800-344-4077

VALVES PLANNED FOR ABANDONMENT

VALVE NO.	FACILITY ID	LOCATION DESCRIPTION	ABANDONED VALVE INSERTED?		DISPOSITION			
			YES*	NO	VALVE REMOVED (NO BOX, ABOVE GROUND VALVE)	VALVE VALVE BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX & LID REMOVED	VALVE REMAINS IN PLACE, BOX FILLED W/ CONCRETE
#		No Valves to be Abandoned						
#								
#								
#								
#								

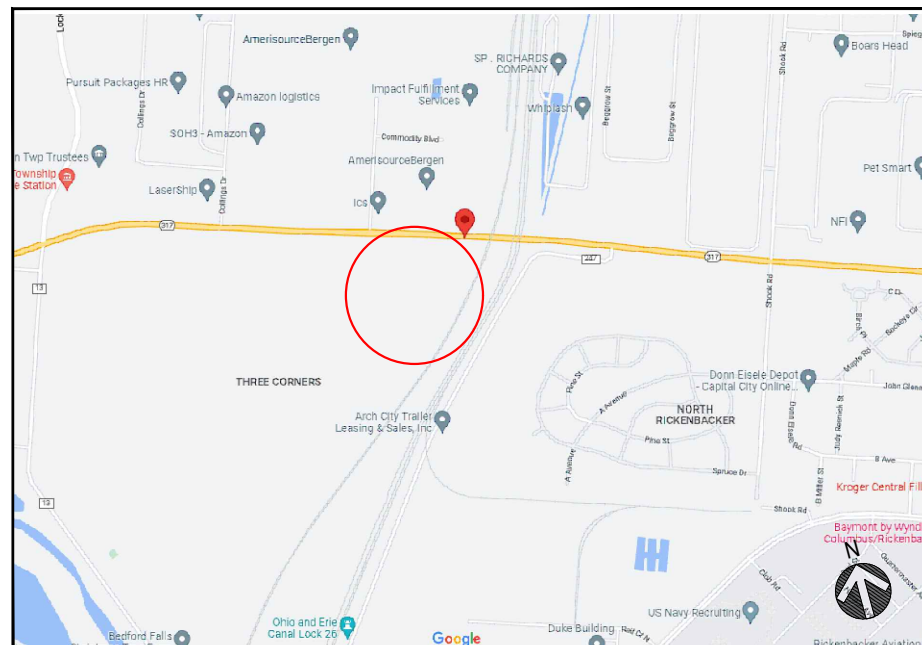
* - IF "YES," APPROVAL AND REASON ARE REQUIRED AND SHALL BE DOCUMENTED.
NOTE: IF VALVE COULD NOT BE LOCATED, MAKE APPLICABLE COMMENT IN ABOVE TABLE.

PROPOSED FACILITIES - SYSTEM MOP AND PRESSURE TEST DATA

SYSTEM NUMBER	34625011
SYSTEM NAME	GROVEPORT-EASTPORT BUSINESS PARK MP
SYSTEM MOP (PSIG)	60
SEGMENT MAOP (PSIG)	60
MINIMUM TEST PRESSURE (PSIG)	90
MAXIMUM TEST PRESSURE (PSIG)	125

VICINITY MAP

SCALE: NTS



PROJECT DESCRIPTION

INSTALL ~811'-4"PMMP; DIRECTIONAL BORE & OPEN CUT, SEWER CAMERA
ODOT PERMIT, EASEMENT REQUIRED;
TIE_IN ON 8-INCH

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
BOM-1	BILL OF MATERIALS
L-1	LAYOUT PLANS
D-1 - D-2	CONSTRUCTION DETAILS

PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
811'	6"	PL	0'	0"	
811'	TOTAL INSTALLATION (FEET)		0'	TOTAL ABANDONMENT (FEET)	
PROPOSED GAS SERVICES					
	REPLACEMENTS	TIE OVERS	TOTAL SERVICES	METER OUTS	
ESTIMATED GAS SERVICES	0	0	1	0	

MATERIAL APPROVED FOR USE ON THIS JOB ORDER IS LIMITED TO WHAT IS LISTED IN THE BILL OF MATERIALS IN THIS DRAWING.

ANY ADDITIONAL MATERIAL MUST BE APPROVED FOR USE BY THE P.E. RESPONSIBLE FOR THIS PROJECT.



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		
DESIGNED BY	J MALTRY	08/04/2022513-991-9650
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327
CHECKED BY	DAN HARTMANN	X X
AS-BUILT BY	X	X X
	NAME	DATE PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, FRANKLIN (049)

DRAWING TITLE:
TITLE SHEET

DRAWING NO:
T-1

General Notes

1. Deviation from NiSource CAD Standards is at discretion of reviewing Professional Engineer.
2. Refer to project documentation for the associated Environmental Compliance Plan (ECP) and any project-specific documentation.
3. The proposed gas facility locations shown are approximate and are subject to change.
4. Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate and not to scale.
5. Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
6. Individual service line designs for services smaller than 3 inches in diameter are not provided by Engineering. These services shall be installed using the standard design criteria and material specified in the NiSource standards. Services 3 inches and larger in diameter shall be designed, reviewed, and represented on a separate plan set as necessary.
7. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:

Code of Federal Regulations (CFR)

49 CFR 192 Pipeline Safety Regulations

29 CFR 1910 Occupational Safety and Health Administration (OSHA)

American Society of Mechanical Engineers (ASME)

ASME B31.8 Gas Transmission and Distribution Piping Systems
8. All NiSource design codes and standards will be adhered to as applicable.
9. Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
10. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

F - FRONT

BK - BACK

L - LEFT

R - RIGHT

B - BUILDING EDGE

CU - CURB

CLP - CENTER OF PAVEMENT

CLR - CENTER OF RIGHT-OF-WAY

CEL - CENTER OF EASTBOUND LANE

CWL - CENTER OF WESTBOUND LANE

CNL - CENTER OF NORTHBOUND LANE

CSL - CENTER OF SOUTHBOUND LANE

Drawing Revision Conditions:

1. If, during the course of project construction, anticipated changes to project plans result in complex project criteria being met as defined by NiSource Gas Standard 2810.050 "Stakeholder Reviews of Design Capital Projects," the changes shall not be implemented until revised project documentation is reviewed by the Project Engineer and approved by a Professional Engineer as necessary.
2. Any additional gas pressure containing material not listed on the project Bill of Materials must be reviewed by the Project Engineer and reviewing Professional Engineer prior to use.
3. Any significant changes to proposed primary pipeline installation methods and location must be reviewed by the Project Engineer and reviewing Professional Engineer.
4. Any significant changes to proposed project scope must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes to project scope may include changes to proposed design pressure, change of proposed pipe size and material affecting system hydraulics, and the addition or removal of significant amounts of pipeline installation or abandonment.
5. Any significant changes to proposed tie-ins must be reviewed by the Project Engineer and reviewing Professional Engineer. Significant changes may include the following: addition or removal of a tie-in, change in proposed tie-in material, change in proposed tie-in method, and change in tie-in location if system hydraulics may be affected.

Project Specific Drawing Revision Conditions (add below items to Drawing Revision Conditions notes as applicable):

6. This project involves the installation of facilities within private rights-of-way as indicated by the proposed installation drawing. If, during the course of installation, it is found that the installation must deviate from the planned location within the private right-of-way, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.
7. This project involves the installation of facilities in permitted locations within public right-of-way. If, during the course of installation, it is found that the installation must deviate from the permitted location, construction must cease until the deviation is reviewed by the Project Engineer and reviewing Professional Engineer.

Environmental Notes

1. All NiSource construction activities must be completed in accordance with the Environmental Construction Standards (HSE 4440.020) and the project Environmental Compliance Plan (ECP). Said ECP shall be provided by others.
2. The project ECP and any site-specific erosion control drawings, must be provided to the contractor with the project drawings for review and planning prior to the start of construction activities. This includes any tree clearing activities required prior to the start of facility construction activities.
3. The project ECP and any associated drawings must be reviewed with construction, the contractor, and an environmental representative prior to the start of construction activities.
4. These documents must remain on site for the duration of the construction project, and any project scope changes, with the potential to impact the requirements of the ECP or environmental drawings, must be coordinated with an environmental representative prior to completion.

DRAWING LEGEND

Gas Main Symbology

- Existing Gas Main
- Existing Gas Main to Be Abandoned
- Proposed Gas Main
- Proposed Gas Main Uprate

Gas Main Material/Pressure Label References

MATERIAL CODES

- CS* Coated Steel Gas Main
- WT* Weld Treated Gas Main
- CI* Cast Iron Gas Main
- BS* Bare Steel Gas Main
- WI* Wrought Iron Gas Main
- PH* High Density Polyethylene Gas Main
- PM* Medium Density Polyethylene Gas Main

PRESSURE CODES

- *LP Low Pressure
- *IP Intermediate Pressure
- *MP Medium Pressure
- *HP High Pressure

MISCELLANEOUS CODES

- *-SER Service
- *-R Riser
- (TC) Transmission Class

Gas Main Installation Method Label References

- AT Attached
- BH Bridge Hanger
- BLGH Building Hanger
- DB Directional Bore
- IS Inserted
- OC Open Cut
- PB Pneumatic Bore
- PL Plowed
- RT Roof Top
- (E) Existing
- (P) Proposed

- W1 Weld Location
- T1 Gas Main Tie-in Location
- A1 Gas Main Abandonment Location

Gas Facility Symbology

- x"GV Gas Valve
- x"PVC Critical Gas Valve
- (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
- x"HVTT High Volume Tapping Tee
- x"SST Pressure Control Fitting - ShortStopp Tee
- x"SPH Pressure Control Fitting - Spherical Tee
- x"MF-BO Pressure Control Fitting - Mueller Bottom-out
- x"MF-SO Pressure Control Fitting - Mueller Side-out
- x"MF-FT Pressure Control Fitting - Mueller Flange Tee
- x"SS Pressure Control Fitting - ShortStopp
- x"MF Pressure Control Fitting - Mueller Stopper
- x"x x" POLYTAP Polytapp Side Saddle Fitting
- Transition
- End Cap
- Riser
- Reducer
- Electronic Marker
- Flush-mounted Tracer Wire Station
- Post Pipeline Marker with Tracer Wire
- Gas Main Marker without Tracer Wire
- Test Well
- Regulator Station
- Single Customer Regulator
- Meter
- Meter with Regulator
- Test Point (Station)
- Gas Service Tie-over
- Gas Service Replacement
- Meter Move Out

Swing Tie Symbology

- Telephone Manhole
- Drain Manhole
- Electric Manhole
- Catch Basis
- Sewer Manhole
- Fire Hydrant
- Utility Pole
- Property Marker
- Telephone Pedestal
- Television Pedestal
- Unknown Manhole
- Water Box
- Water Gate
- Electric Pedestal
- Iron Pin
- Light Pole



PROPOSED

REVISIONS			
0			
REV. #	DATE	DESCRIPTION	
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:			
INST# 22-0082882-00			
ABAN# NA			
PROJECT ID# 22-87265			
NB_LGR WEST			
GROVEPORT, COUNTY (049)			

DRAWING TITLE:
GENERAL NOTES

DRAWING NO:
GN-1

Sign or Plaque	Sign Designation	Section	Conventional Road	Freeway or Expressway	Minimum
STOP	W1-1	8F.05	30 x 30	30 x 30	30 x 30
STOP (on STOP/NO STOP)	W1-1	8F.05	30 x 30	30 x 30	30 x 30
YIELD	W1-2	8F.05	30 x 30	30 x 30	30 x 30
TO DISPERSE TRAFFIC	W1-3	8F.05	30 x 30	30 x 30	30 x 30
NO STOP	W1-4	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-5	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-6	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-7	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-8	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-9	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-10	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-11	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-12	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-13	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-14	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-15	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-16	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-17	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-18	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-19	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-20	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-21	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-22	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-23	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-24	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-25	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-26	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-27	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-28	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-29	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-42	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-44	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-45	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-46	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-61	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-62	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-63	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-64	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-71	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-73	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-77	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-78	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-79	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-80	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-81	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-82	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-83	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-84	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-85	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-88	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-89	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-92	8F.05	30 x 30	30 x 30	30 x 30
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NO STOP/NO STOP	W1-95	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-96	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-97	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-98	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-99	8F.05	30 x 30	30 x 30	30 x 30
NO STOP/NO STOP	W1-100	8F.05	30 x 30	30 x 30	30 x 30

Figure 6C-1. Component Parts of a Temporary Traffic Control Zone

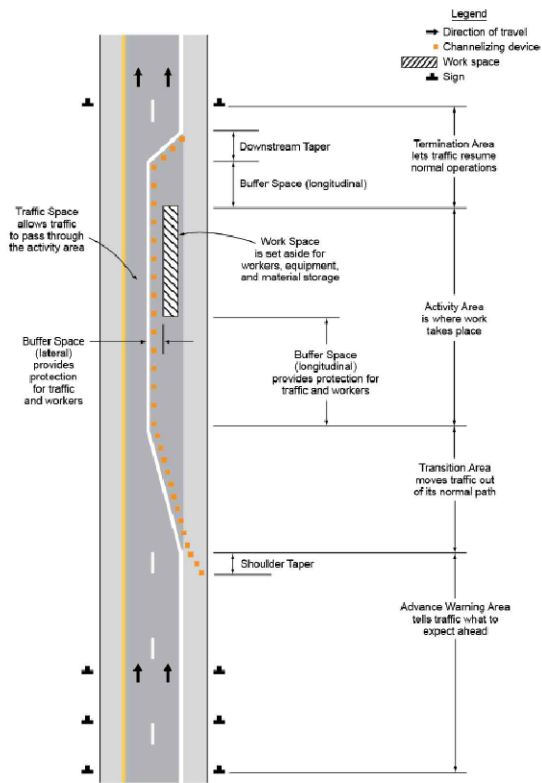


Figure 6C-2. Types of Tapers and Buffer Spaces

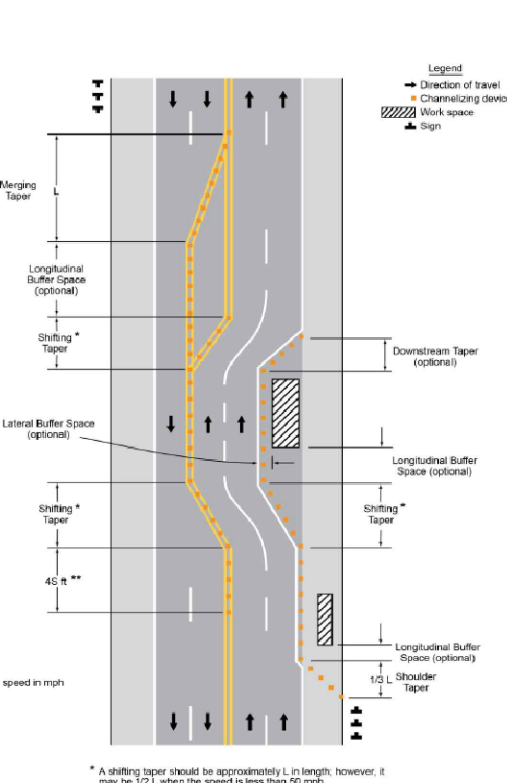


Figure 6E-3. Use of Hand-Signaling Devices by Flaggers

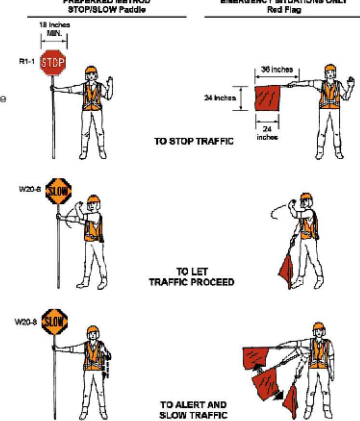


Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board	Shadow vehicle
Arrow board support or trailer (shown facing down)	Sign (shown facing left)
Changeable message sign or trailer	Surveyor
Channelizing device	Temporary barrier
Crash cushion	Temporary barrier with warning light
Direction of temporary traffic detour	Traffic or pedestrian signal
Direction of traffic	Truck-mounted attenuator
Flagger	Type 3 barricade
High-level warning device (flag tree)	Warning light
Longitudinal channelizing device	Work space
Luminaire	Work vehicle
Pavement markings that should be removed for a long-term project	

Figure 6F-7. Channelizing Devices

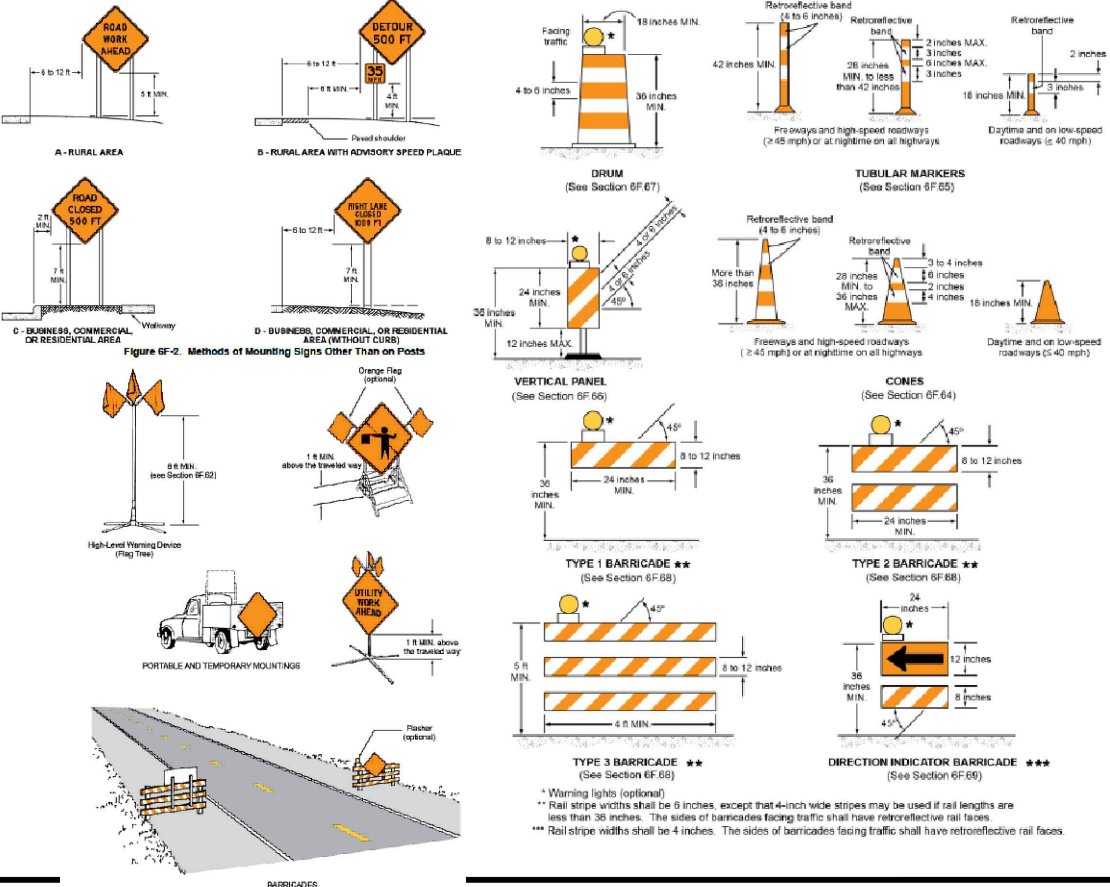


Table 6C-1. Recommended Advance Warning Sign Minimum Spacing

Road Type	Distance Between Signs **		
	A	B	C
Urban (low speed) *	100 feet	100 feet	100 feet
Urban (high speed) *	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

Table 6C-3. Taper Length Criteria for Temporary Traffic Control Zones

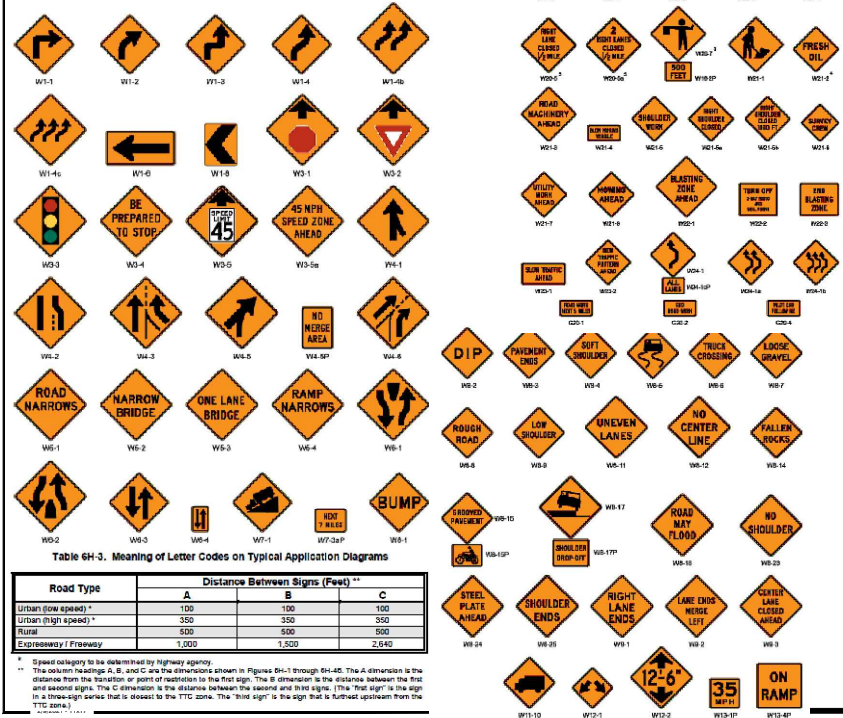
Type of Taper	Taper Length
Merging Taper	at least L
Shifting Taper	L; however, may be 1/2 L when speed is < 60 mph
Shoulder Taper	at least 1/3 L
One-Lane, Two-way Traffic Taper	50 feet minimum; 100 feet maximum
Downstream Taper	50 feet minimum; 100 feet maximum

Table 6C-4. Formulas for Determining Taper Length

Speed Limit (S)	Taper Length (L) in Feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

Figure 6F-4. Warning Signs and Plaques in Temporary Traffic Control Zones (Sheet 1 of 3)



NiSource

Ohio Utilities Protection Service
Call 811
before you dig

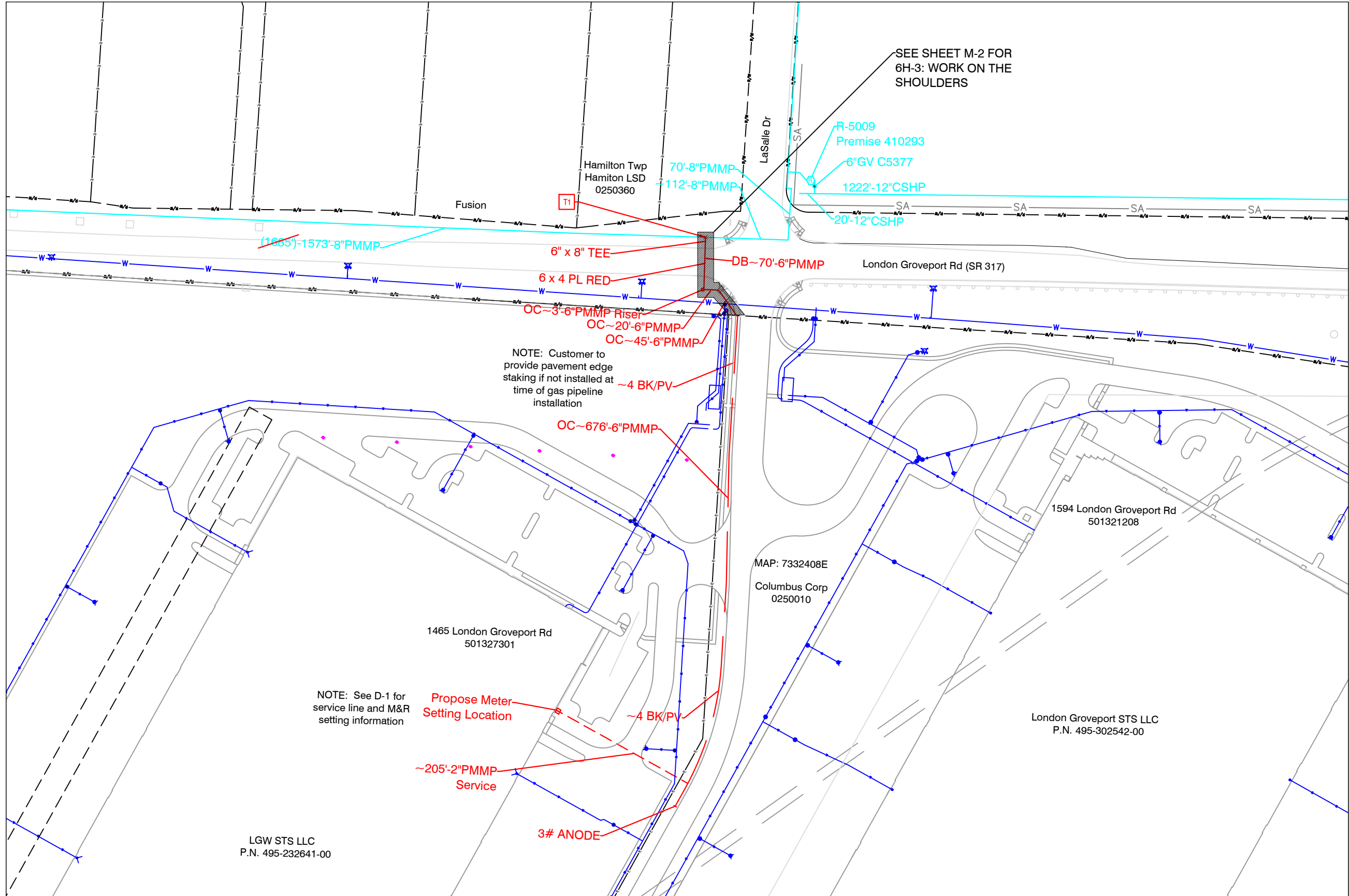
PROPOSED

REVISIONS		
REV. #	DATE	DESCRIPTION
0		
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-1327
CHECKED BY	X	X
AS-BUILT BY	X	X
	NAME	DATE PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
CONSTRUCTION
DETAILS

DRAWING NO:
MN-1



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0		

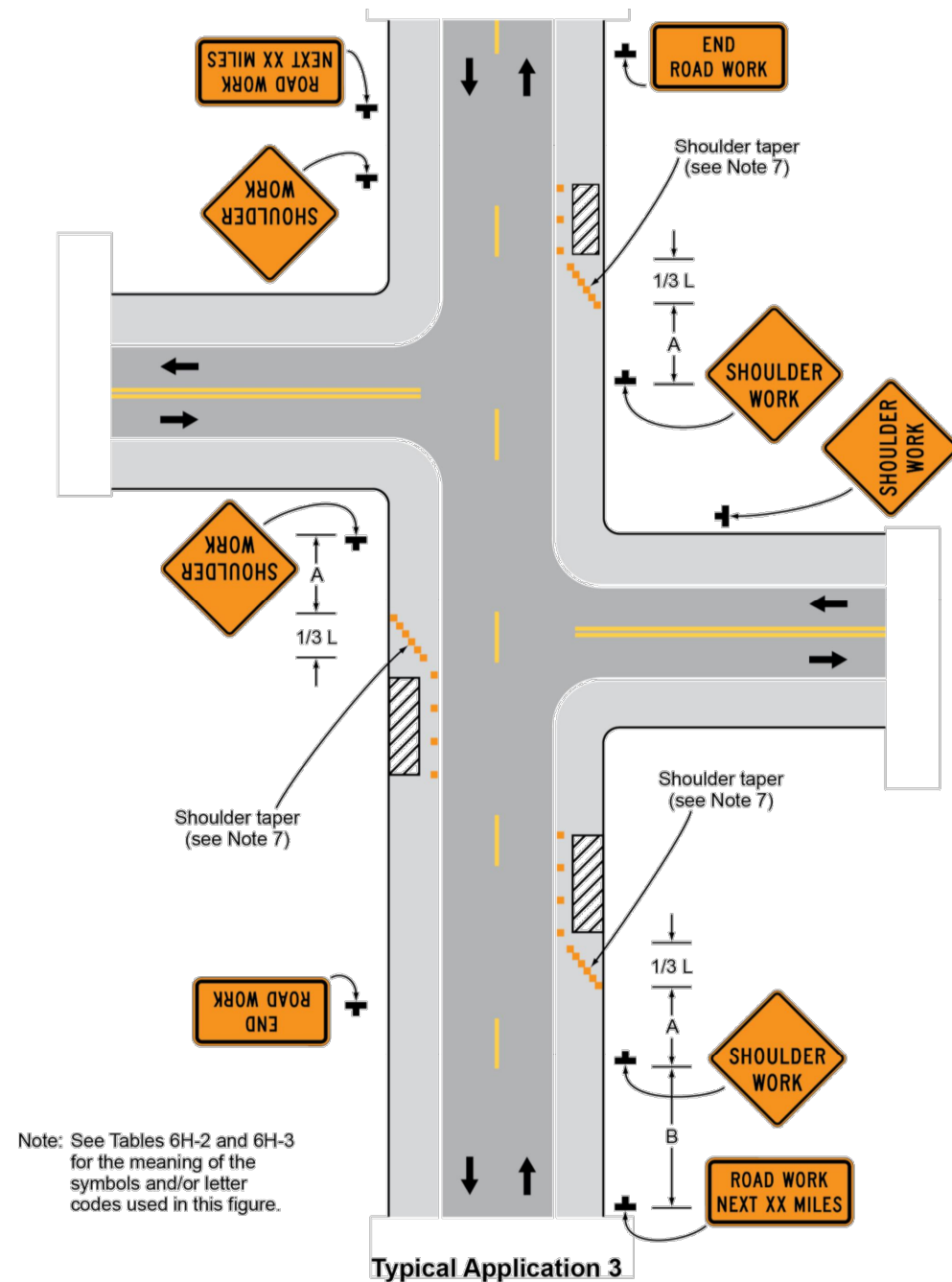
DESIGNED BY	M F SUCHARSKI	04/14/2022	614-989-1327
DRAWN BY	M F SUCHARSKI	04/14/2022	614-989-1327
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:
INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:
LAYOUT SHEET

DRAWING NO:
M-1

Figure 6H-3. Work on the Shoulders (TA-3)



Notes for Figure 6H-3—Typical Application 3 Work on the Shoulders

Guidance:

1. A **SHOULDER WORK** sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

Option:

2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short-duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
7. When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.



PROPOSED

REVISIONS			
0			
REV. #	DATE	DESCRIPTION	
DESIGNED BY	M F SUCHARSKI	04/14/2022614-989-132	
DRAWN BY	M F SUCHARSKI	04/14/2022614-989-132	
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 22-0082882-00
ABAN# NA
PROJECT ID# 22-87265
NB_LGR WEST
GROVEPORT, COUNTY (049)

DRAWING TITLE:

LAYOUT SHEET

DRAWING NO:

M-2