

NOTES:

- FOR LOW-VOLUME SITUATIONS WITH SHORT WORK ZONES ON STRAIGHT ROADWAYS WHERE THE FLAGGER IS VISIBLE TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS, A SINGLE FLAGGER, POSITIONED TO BE VISIBLE TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS, MAY BE USED. THE "ROAD WORK AHEAD" AND THE "END ROAD WORK" SIGNS MAY BE OMITTED FOR SHORT-DURATION OPERATIONS.
- FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS. A "BE PREPARED TO STOP" SIGN MAY BE ADDED TO THE SIGN SERIES.
- THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL (OR CREST VERTICAL) CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES.
- AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED, EXCEPT IN EMERGENCIES.
- WHEN USED, THE "BE PREPARED TO STOP" SIGN SHOULD BE LOCATED BETWEEN THE "FLAGGER" SIGN AND THE "ONE LANE ROAD" SIGN.

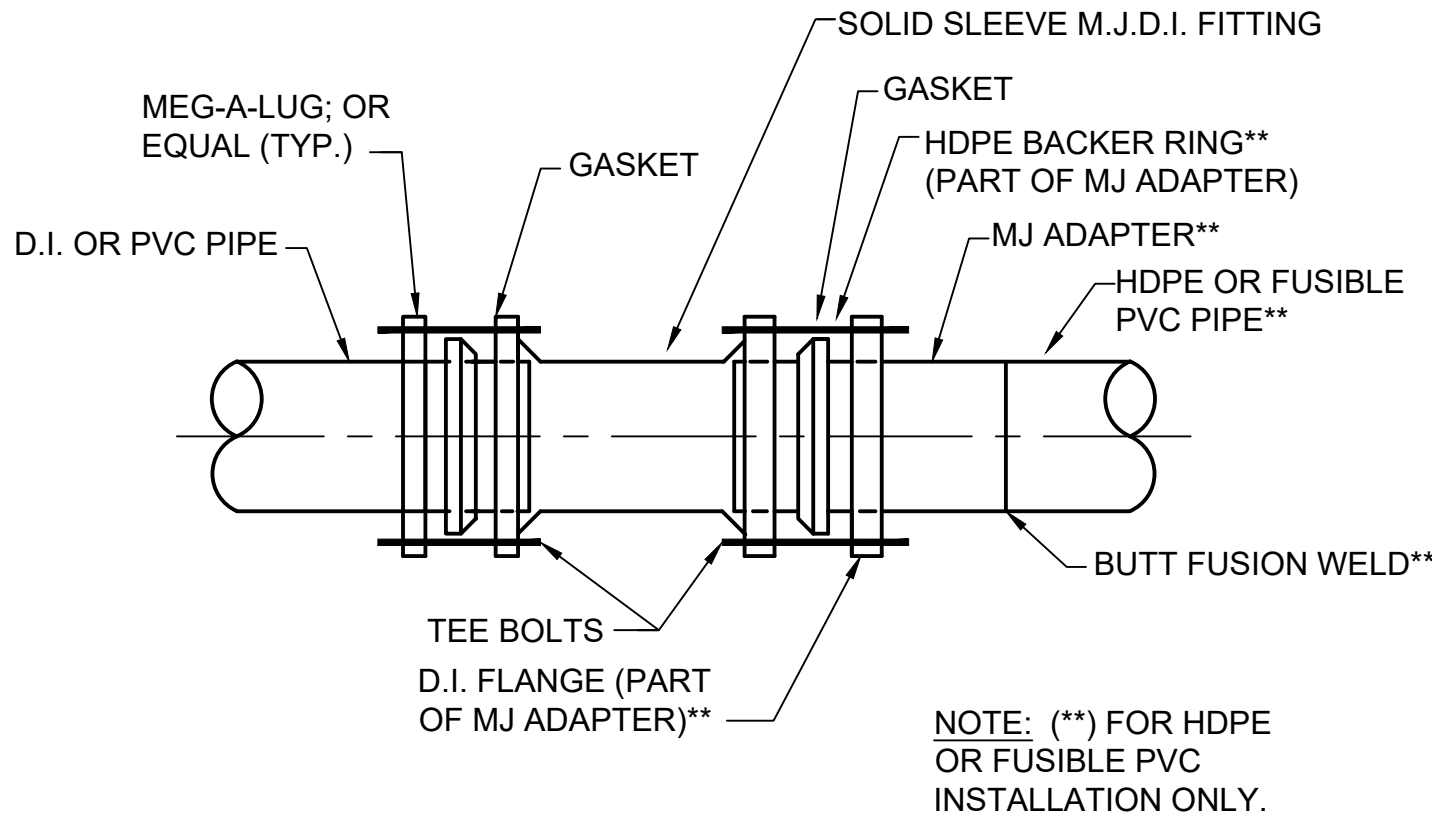
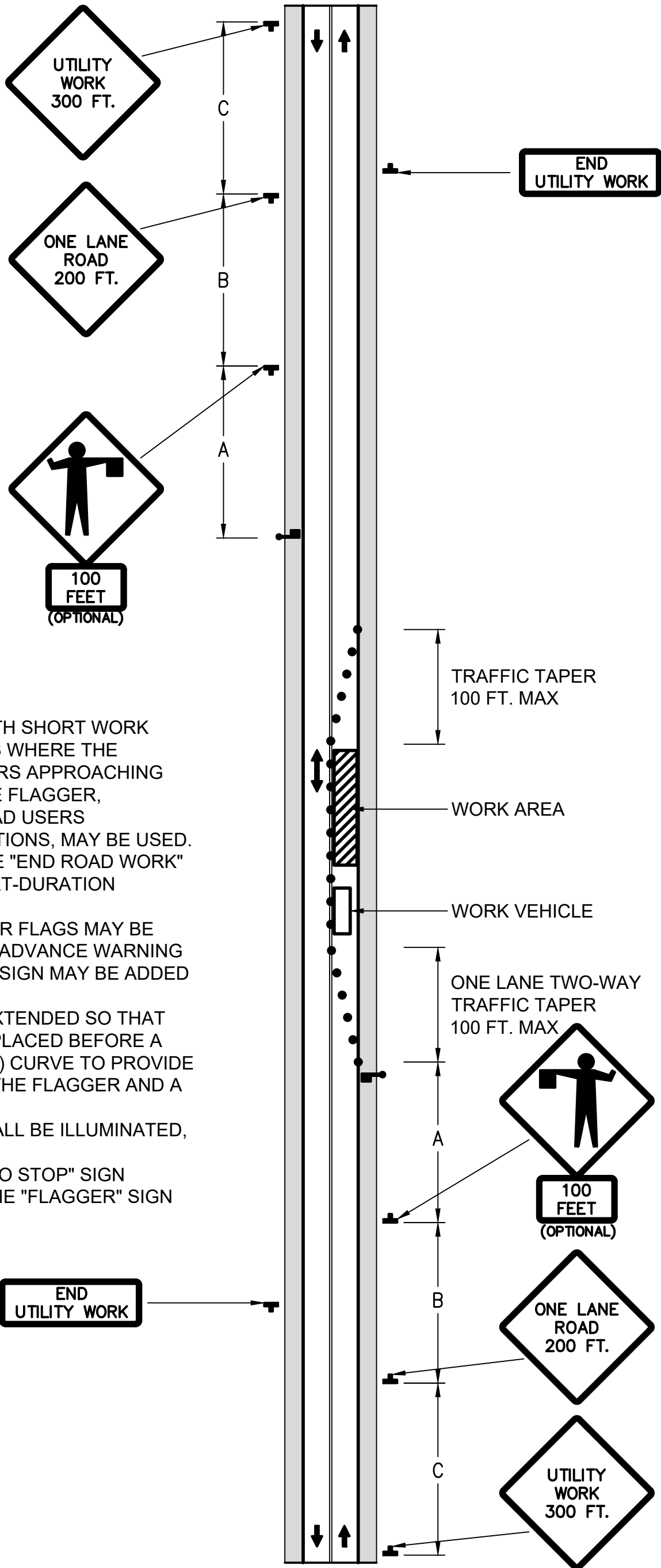
FOR LOW SPEED URBAN CONDITIONS

A=100 FT.
B=100 FT.
C=100 FT.

DETAIL - TRAFFIC CONTROL PLAN

NOT TO SCALE

NOTE: TRAFFIC CONTROL PLANS ARE GUIDELINES ONLY. ALL TRAFFIC CONTROL PLANS AND LANE CLOSURES MUST BE APPROVED BY THE OWNER AND ENGINEER.



DETAIL - RESTRAINED PIPE TRANSITION COUPLING

NOT TO SCALE

LENGTH IN FT. TO BE RESTRAINED ON EACH SIDE OF FITTING FOR 14" PVC PIPE					
TYPE OF BEND	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	DEADENDS
HORIZ. BEND	24	10	5	3	73
VERT. BEND	---	30 UPPER 7 LOWER	15 UPPER 4 LOWER	8 UPPER 2 LOWER	

RESTRAINED JOINT NOTES

- CONTRACTOR SHALL INSTALL RJDI FITTINGS FOR ALL VERTICAL AND HORIZONTAL BENDS.
- RESTRAINED LENGTHS WERE CALCULATED ASSUMING A 1.5 FACTOR OF SAFETY, TYPE 5 TRENCH CONDITIONS, "SM" SOIL CLASSIFICATION, 5 FT. MIN. DEPTH OF BURY, AND 150 PSI HYDROSTATIC TEST PRESSURE (SOURCE: EBAA IRON RESTRAINT DESIGN CALCULATION SOFTWARE v.4.0).
- ALL FORCEMAIN APPURTENANCES WITHIN RJDI LIMITS MUST BE RESTRAINED AT EACH JOINT.

RESTRAINED JOINT CALCULATIONS

NOT TO SCALE

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ENGINEER/ARCHITECT: GEORGE LEWIS

CONSTRUCTION COMPANY: S.C.CASE EXCAVATING

DATE: 12/2019

This document, originally issued, sealed, and signed by George W. Lewis, Indiana Professional Engineer, No. 10403303, on 7.2.2018, shall not be used in lieu of a certified document.

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STANDARD DETAILS
US 36 FORCEMAIN REPLACEMENT
TOWN OF PENDLETON, INDIANA

DESIGNED:	GWL	DRAWN:	JRD	REVIEWED:	GWL	APPROVED:	GWL
NO.							
DATE							
DESCRIPTION							
SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED							

DATE	JULY 2018
SCALE:	1"=30'
SHEET NO.	