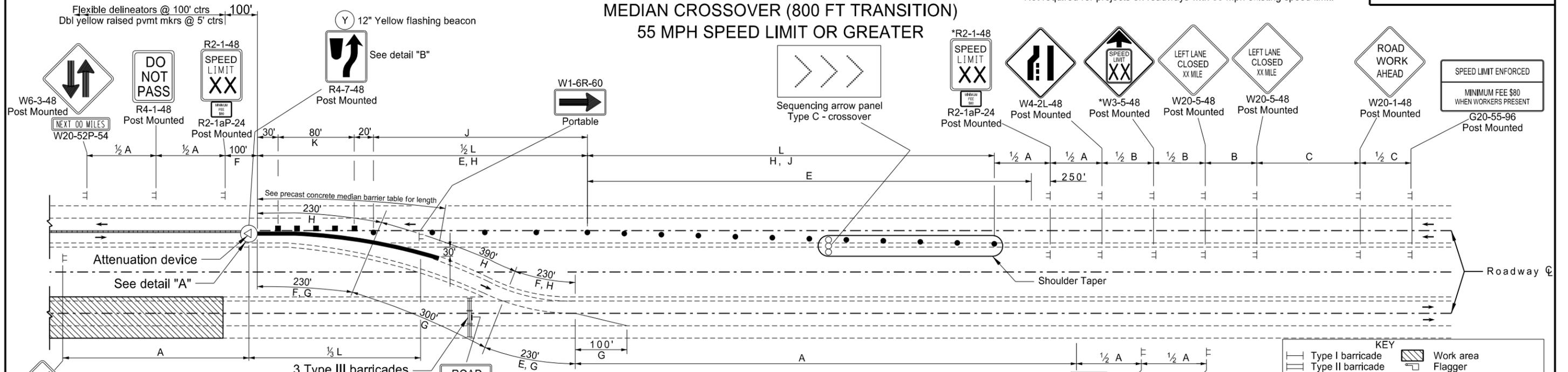


TRAFFIC CONTROL SYSTEM
 MEDIAN CROSSOVER (800 FT TRANSITION)
 55 MPH SPEED LIMIT OR GREATER

*Not required for projects on roadways with 55 mph existing speed limit.



ADVANCE WARNING SIGN SPACING

ROAD TYPE	Minimum Distance Between Signs (ft)		
	A	B	C
Rural - High Speed (over 50 mph to 65 mph)	720	720	720
Urban Expressway and Freeway (55 mph to 60 mph)	850	1,350	2,200
Rural Expressway and Freeway (70 mph to 75 mph)	1,000	1,500	2,640
Interstate/4-Lane Divided (Maintenance and Surveying)	750	1,000	1,500

PRECAST CONCRETE MEDIAN BARRIER TABLE

Roadway ϕ to roadway ϕ	Number-median barrier length
75'	37 - 370'
84'	36 - 360'
104'	36 - 360'

ROADWAY EXISTING SPEED LIMIT TO BE USED

SPEED LIMIT	XX	YY
55	50	55
60	50	60
65	55	65
70	60	70
75	65	75

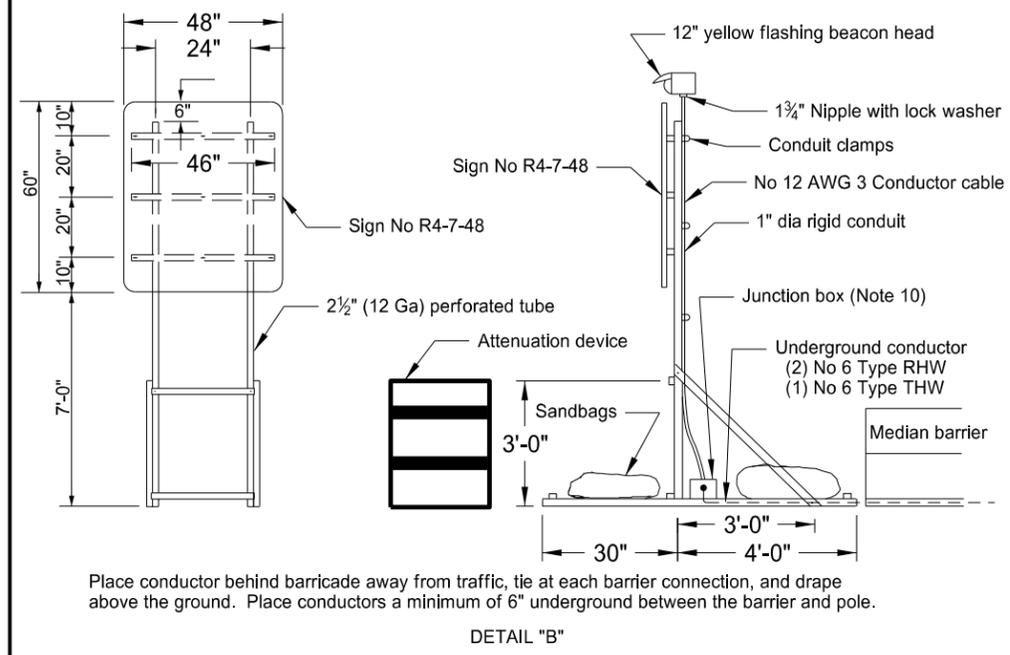
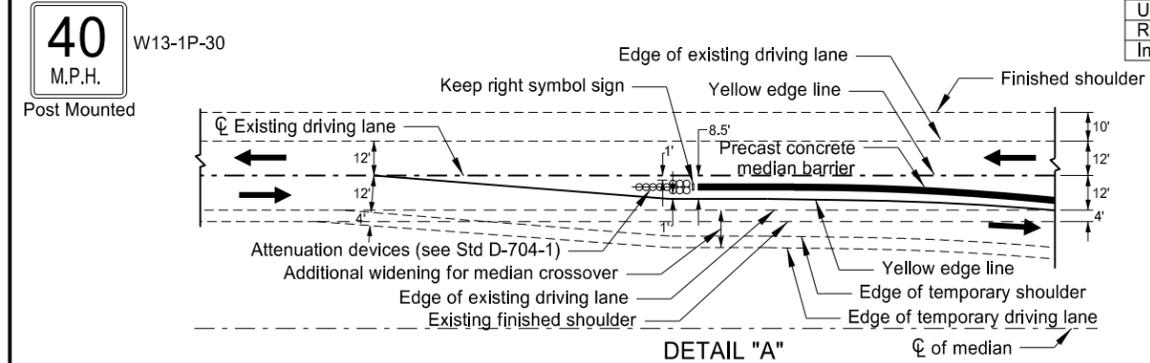
KEY

- Type I barricade
- Type II barricade
- Type III barricade
- Sign
- Work area
- Flagger
- Sequencing arrow panel
- Delineator drum
- Flexible Delineator

LEGEND

- E Obliteration of pavement marking (10' line, 30' skip, ϕ)
- F Obliteration of pavement marking (edge lines)
- G Raised pavement markers (white) 5' centers
- H Raised pavement markers (yellow) 5' centers
- J Drums spaced @ "S" centers
- K Flexible delineators-4 spaces @ 20'

- Notes:
- Variables:
 S=Numerical value of posted speed limit, off-peak 85th percentile speed prior to work starting, or anticipated operating speed in MPH.
 W=Width of offset in feet
 L=Taper length in feet. Speeds 45 mph or greater L=WS.
 - Place signs and barricades on the roadway on moveable assemblies. Mount signs on barricades with the sign bottom on the top of the top barricade bar.
 - Install signs R4-1-48, W6-3-48, and W20-52P-54 at one mile increments and after each interchange.
 - Place the speed limit sign only if the crossover is more than 1 mile from an interchange exit ramp.
 - Place Sequencing Arrow Panels at the beginning of the taper when possible. Where shoulder width does not provide sufficient room, move the panel closer to the work area and place on the roadway surface. Use Type C on roadways with high traffic speeds and volumes (over 40 mph or 5000 ADT or greater)
 - Cover existing speed limit signs within a reduced speed zone.
 - Upon approval, the Engineer will measure obliterated or covered pavement marking as Obliteration of Pavement Marking.
 - As an option, use portable sign supports in lieu of post mounted signs in accordance with NDDOT Standard Drawing D-704-14.
 - Reduce speed when placing traffic control devices. Place "Minimum Fee \$80" signs below speed limit signs in reduced speed areas. Place "Work Zone Speed Limit Enforced" sign in advance of the project at the time traffic control devices are installed.
 - Determine proper size, waterproof junction box, and attach to skid or vertical brace assembly.



CROSSOVER QUANTITY SUMMARY

	ROADWAY EXISTING SPEED LIMIT				
	55 MPH	60 MPH	65 MPH	70 MPH	75 MPH
TYPE III BARRICADES	3 Each	3 Each	3 Each	3 Each	3 Each
FLASHING BEACON	1 Each	1 Each	1 Each	1 Each	1 Each
FLEXIBLE DELINEATORS	5 Each	5 Each	5 Each	5 Each	5 Each
DELINEATOR DRUMS	22 Each	22 Each	22 Each	22 Each	22 Each
SEQUENCING ARROW PANELS TYPE C-CROSSOVER	1 Each	1 Each	1 Each	1 Each	1 Each
PORTABLE PRECAST CONCRETE MEDIAN BARRIERS	See "PRECAST CONCRETE MEDIAN BARRIER TABLE"				
ATTENUATION DEVICES	1-Type B-55	1-Type B-60	1-Type B-65	1-Type B-70	1-Type B-75
RAISED PAVEMENT MARKERS (Yellow)	370 Each	388 Each	406 Each	424 Each	442 Each
RAISED PAVEMENT MARKERS (White)	173 Each	173 Each	173 Each	173 Each	173 Each
OBLITERATION OF PAVEMENT MARKING	298 SF	305 SF	313 SF	332 SF	339 SF

NORTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 5-31-12

REVISIONS

DATE	CHANGE
6/23/2014	Revised Note 8
3/15/2016	Removed Do Not Pass sign and updated notes
11/14/2016	Revised attenuation width
8/17/2017	Termination area and quantities
11/01/2019	Updated note and quantity Note, sign #, & Del Drum update

This document was originally issued and sealed by
 Kirk J Hoff,
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 PE- 4683,
 on 11/1/19 and the original document is stored at the
 North Dakota Department
 of Transportation