

# North Dakota Department of Transportation

Grant Levi, P.E.  
*Director*

Doug Burgum  
*Governor*

March 13, 2017

## ADDENDUM 2 – JOB 10

TO: All prospective bidders on project SS-2-046(045)067, Job No. 10 scheduled for the March 17, 2017 bid opening.

The following plan revisions shall be made:

Plan Revisions:

**Remove and replace sheets 6-1 and 100-3 with the enclosed sheets revised 3/13/17.**

Sheet 6-1:

Note 704-P03 PORTABLE RUMBLE STRIPS was revised.

Sheet 100-3:

Portable Rumble Strips Array details were added.

This addendum is to be incorporated into the bidder's proposal for this project.

For CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER  
80:plm  
Enclosure

**NOTES****GENERAL NOTES**

- 105-P01 INCLINOMETERS: Protect existing inclinometers at Sta. 377+56 Offset 57' RT and Sta. 379+73 Offset 71' RT.
- 201-P01 CLEARING & GRUBBING: Remove trees within the clearing & grubbing shown on Section 40 Sheet 1. Engineer approval is needed for additional tree removal.
- 201-P02 CLEARING & GRUBBING: Stockpile trees that are greater than 6 inches in diameter measured 4.5 feet from the ground within the temporary construction easement at a location specified by the landowner. Contact the landowner for stockpile location.
- 203-010 SHRINKAGE: 25 percent additional volume is included for shrinkage in earth embankment.
- 203-P01 COMMON EXC: Complete all work associated with Common Excavation – Type B before hauling Common Excavation – Waste away from the project.
- 203-P02 COMMON EXCAVATION – WASTE: Department Option waste site has an approximate capacity of 32,000 CY. Locate additional waste site(s). A waste site clues located in the NW ¼ of Section 1 T136N R58W. Obtain a Certificate of Approval (COA) on all contractor obtained waste sites. Earth moving equipment (scraper hauled dirt) will not be allowed on the highway except for crossing. Obtain pre-approval from the Geotechnical Section for all contractor obtained waste sites within ½ mile of the project limits.
- 203-P03 COMMON EXCAVATION – WASTE: 5.2 acres of Seeding Class II & Straw Mulch, 4033 CY of Topsoil – Waste Site, 2000 LF of Silt Fence and Remove Silt Fence, 1500 LF of Fiber Roll 12IN has been provided for the waste site and cartway.
- 302-P01 DRAINAGE AGGREGATE: The Engineer will contact Geotechnical Section to locate the trench drains in the field after the initial excavation is completed. Include the cost for excavation and placement of embankment in the bid price for Drainage Aggregate.
- Drainage Aggregate consists of Class 43 Aggregate. Modify Spec. 816.03 to remove the 8% max. shale requirement as it applies to Cl 43 Chips.
- 704-P01 TRAFFIC CONTROL: Provide traffic control consisting of a temporary lane closure and flagging.
- Traffic control device quantities are based on a 1500 foot lane closure and the list below. Provide additional devices at no cost to the Department.
1. Standard D-704-15, layout A;
  2. Standard D-704-19, layout F;
  3. Standard D-704-20, layout G;
  4. Standard D-704-22, layouts K and L;
  5. Standard D-704-24, layout S.

- 704-P02 PORTABLE CHANGEABLE MESSAGE SIGN: Install Portable Changeable Message Signs (PCMS) before work begins on the project. The Engineer will determine the locations for PCMS installation. Relocate the PCMS as directed by the Engineer.

Provide an operator trained in the use of the PCMS.

The Engineer will determine the message to be displayed. The operator shall program the message within one hour of the Engineer's request to change the message.

- 704-P03 PORTABLE RUMBLE STRIPS: Provide rumble strips made of rubber or engineered polymers. Rumble strips may be composed of interlocking segments, have a hinge at the midpoint, or consist of a single piece. Meet the following criteria for the rumble strips:

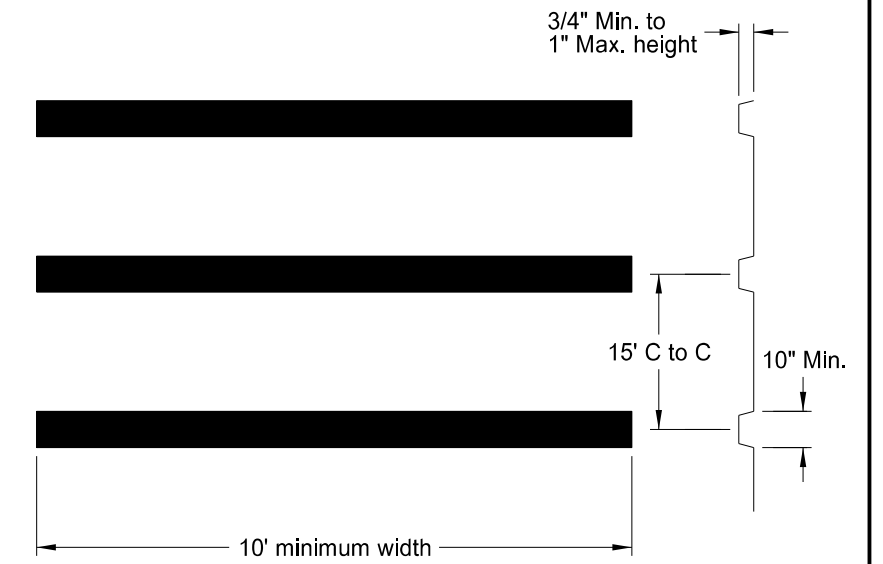
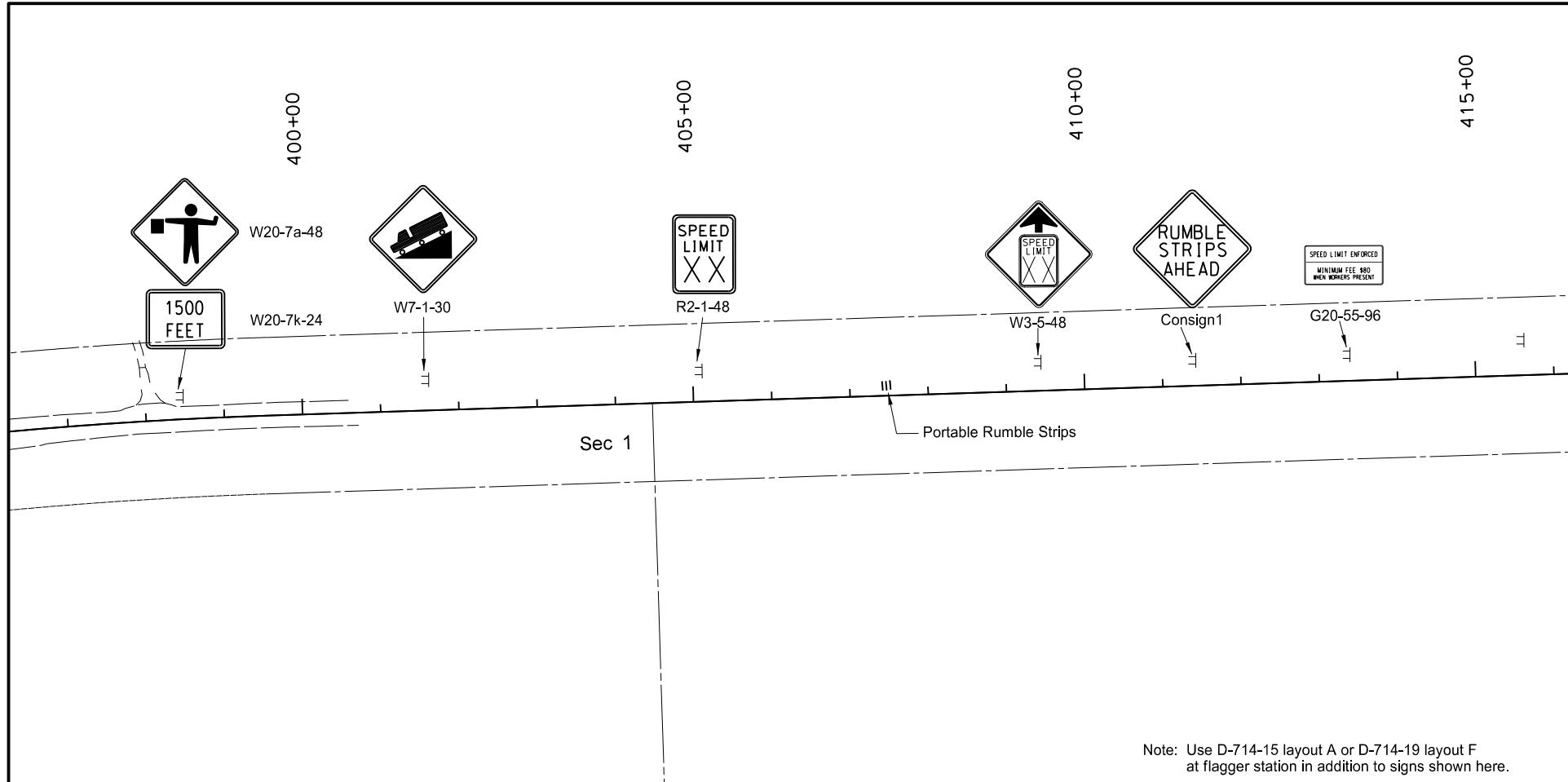
- Use a minimum of 3 strips in each array.
- Have no adhesives or fasteners required for placement.
- Manufacturer speed rating shall meet or exceed the posted speed.

Move rumble strips with the flagging operation. Do not place rumble strips on horizontal curves. The Engineer will count and measure each array as one. Include the cost of obtaining, installing, maintaining, and relocating the portable rumble strips in the unit price bid for "Portable Rumble Strips".

- 714-P01 PIPE POLYETHYLENE CORR PERF 6IN DRAIN: Wrap pipe in a Geosynthetic Material Type D3 or D4 sock.

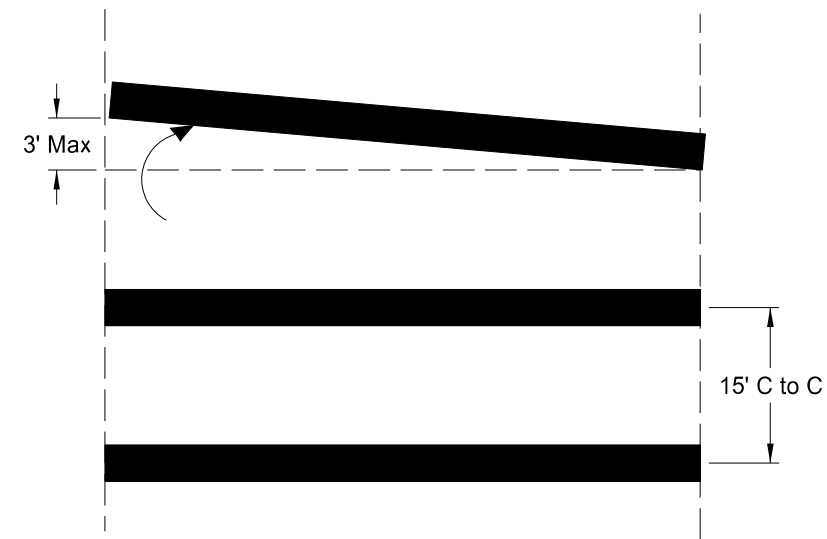
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Revised	3/13/2017	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SS-2-046(045)067	100	3



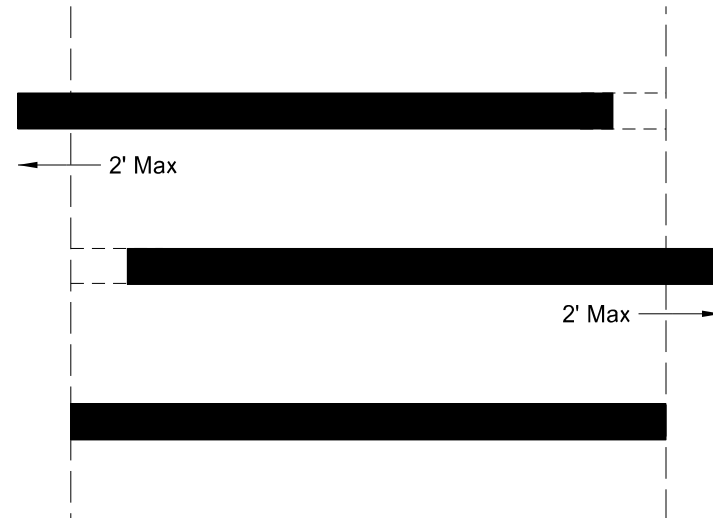
PORTABLE RUMBLE STRIPS ARRAY DETAIL

Note: Use D-714-15 layout A or D-714-19 layout F at flagger station in addition to signs shown here.



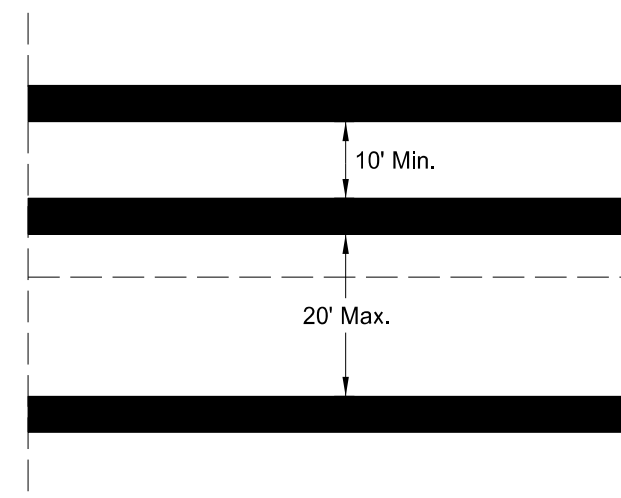
Reposition if movement is >3' from original position

Skewing



Reposition if movement is >2' from original position

Lateral



Reposition if distance between strips is <10' or >20'

Perpendicular to Travel with or against traffic

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PORTABLE RUMBLE STRIPS ARRAY  
TYPES OF MOVEMENT AND MAXIMUM ALLOWANCES

Work Zone Traffic Control  
  
Slide Repair  
ND 46 - Slide Repair at RP 67.54