

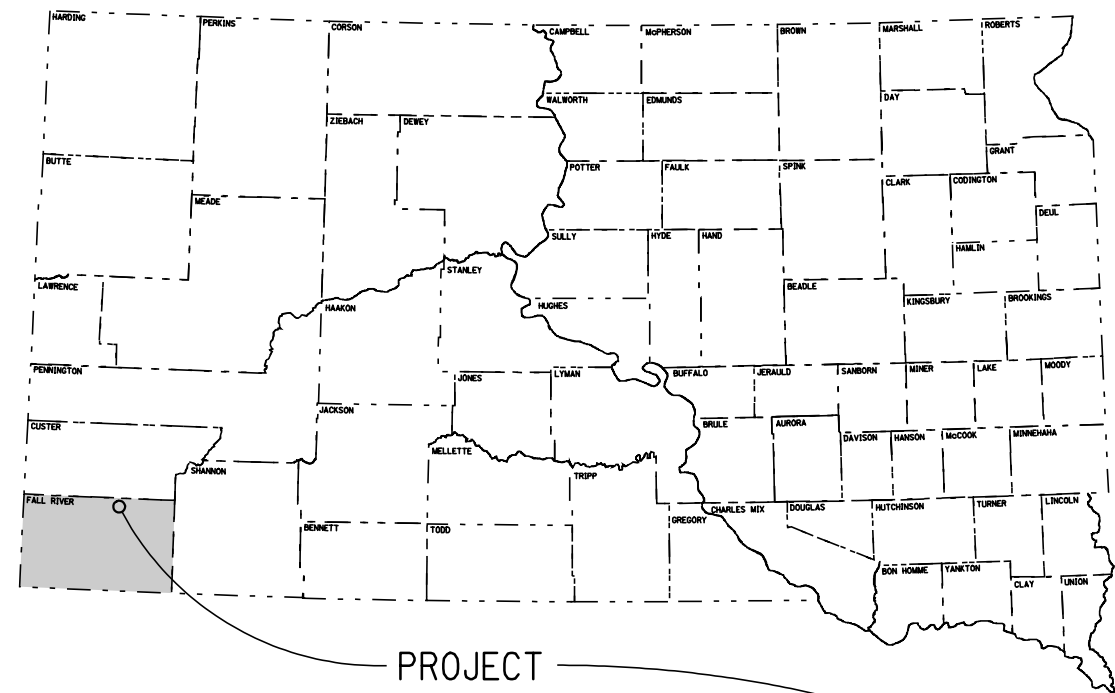
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STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
PROJECT 018-492
U.S. HIGHWAY 18
FALL RIVER COUNTY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	018-492	1	4

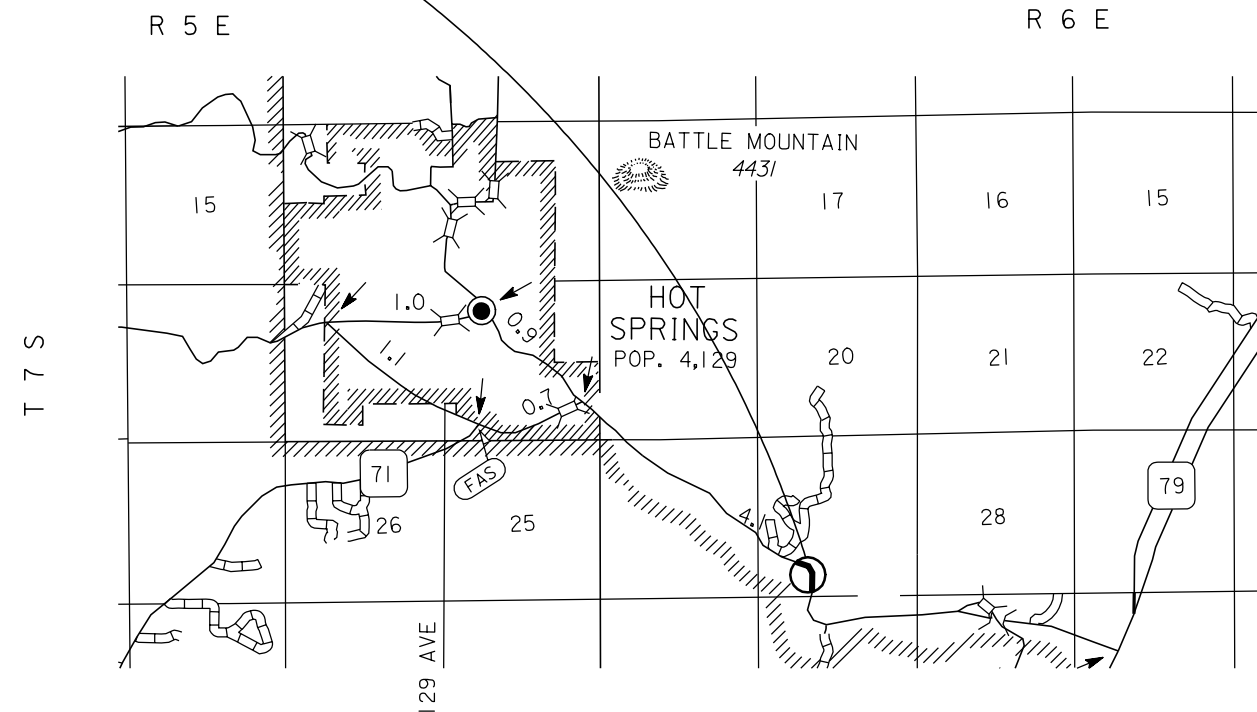
Plotting Date: 23-JUN-2009



PROJECT
MRM 42.34 Approximate

INDEX OF SECTIONS

- Sheet No. 1: Title Sheet
- Sheet No. 2: Estimate and Notes
- Sheet No. 3: Plan Sheet
- Sheet No. 4: Traffic Control



DESIGN DESIGNATION

ADT (2008)	4615
ADT (2028)	6785
DHV	1020
D	50%
T DHV	6.3%
T ADT	13.8%
V	

STORM WATER PERMIT

Major Receiving
Body of Water:
Area Disturbed:
Total Project Area:

PLOTTED FROM - TRRC12608

FILE - U:\REGIONRC\PR\MISC-PROJECTS\FALL RIVER 18 PIPE BORE\TITLE.DGN PLOT NAME - TITLE

ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
451E5190	Bore Obstruction	2	Each
634E0100	Traffic Control	170	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
734E0906	Temporary Stream Diversion for Pipe Culvert Extension	1	Each

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.

WORK DESCRIPTION

Work on this project will consist of the diverting water away from two 36" x 220' CMP culverts, boring within the two culverts to achieve a 24" opening, and subsequently removing the water diversion.

GENERAL MAINTENANCE OF TRAFFIC

Removing, relocating, covering, salvaging and resetting of existing traffic control devices, including delineation, shall be the responsibility of the Contractor. Cost for this work shall be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas. Portable sign supports may be used as long as the duration is less than 3 days. If the duration is more than 3 days the signs shall be on fixed supports.

Storage of vehicles and equipment shall be outside the clear zone and as near as possible to the right-of-way line. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work.

Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

INVENTORY OF TRAFFIC CONTROL DEVICES

SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER REQUIRED	UNITS PER SIGN	UNITS
G20-2	36" x 18"	END ROAD WORK	2	17	34
W20-1	48" x 48"	ROAD WORK ##### FT. OR AHEAD	2	34	68
W21-5	48" x 48"	SHOULDER WORK	2	34	68
TOTAL UNITS			170		

TEMPORARY DRAINAGE DIVERSION

Water shall be temporarily diverted from Fall River and from the inlet (west) end of the pipes through the existing overflow channel as needed to complete boring. All costs for diverting the flow from the original channel and the culverts and returning the flow to the original channel and culverts shall be paid for at the contract unit price per each for Temporary Stream Diversion for Pipe Culvert Extension.

BORING OPEATIONS

The boring pit shall be located on the outlet (east) end of the pipe.

Bedding material required for boring machine shall be clean rock placed as to not interrupt the flow upon release of the water.

The boring machine head excavation shall be circular with a maximum diameter capable of creating a 24" opening while not damaging the existing CMP.

All material excavated by the boring head for the pipe installation shall be disposed of by the contractor.

All costs (including construction of the boring pit and bedding material for the boring machine) for opening the pipe to the minimum 24" dimension shall be paid at the contract unit price per each for Bore Obstruction.

Payment will not be made if the minimum opening of 24" is not achieved.

It is believed that the length of the blockage area is short, but should be inspected by the bidder.

Water blasting has been attempted unsuccessfully at this location in the past.

WASTE DISPOSAL SITE

The Contractor will be required to furnish a site(s) for the disposal of construction/demolition debris generated by this project.

Construction/demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

WASTE DISPOSAL SITE (CONTINUED)

- Construction/demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction/demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".
- Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

HISTORICAL PRESERVATION OFFICE CLEARANCES

To obtain SHPO clearance, a cultural resources survey may need to be conducted by a qualified archaeologist. The Contractor shall arrange and pay for this survey. In lieu of a cultural resources survey, the Contractor could request a literature search on the site and provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that no artifacts have been found on the site. Jim Donohue, State Archaeological Research Center at 605-394-1937 shall be contacted for a literature search.

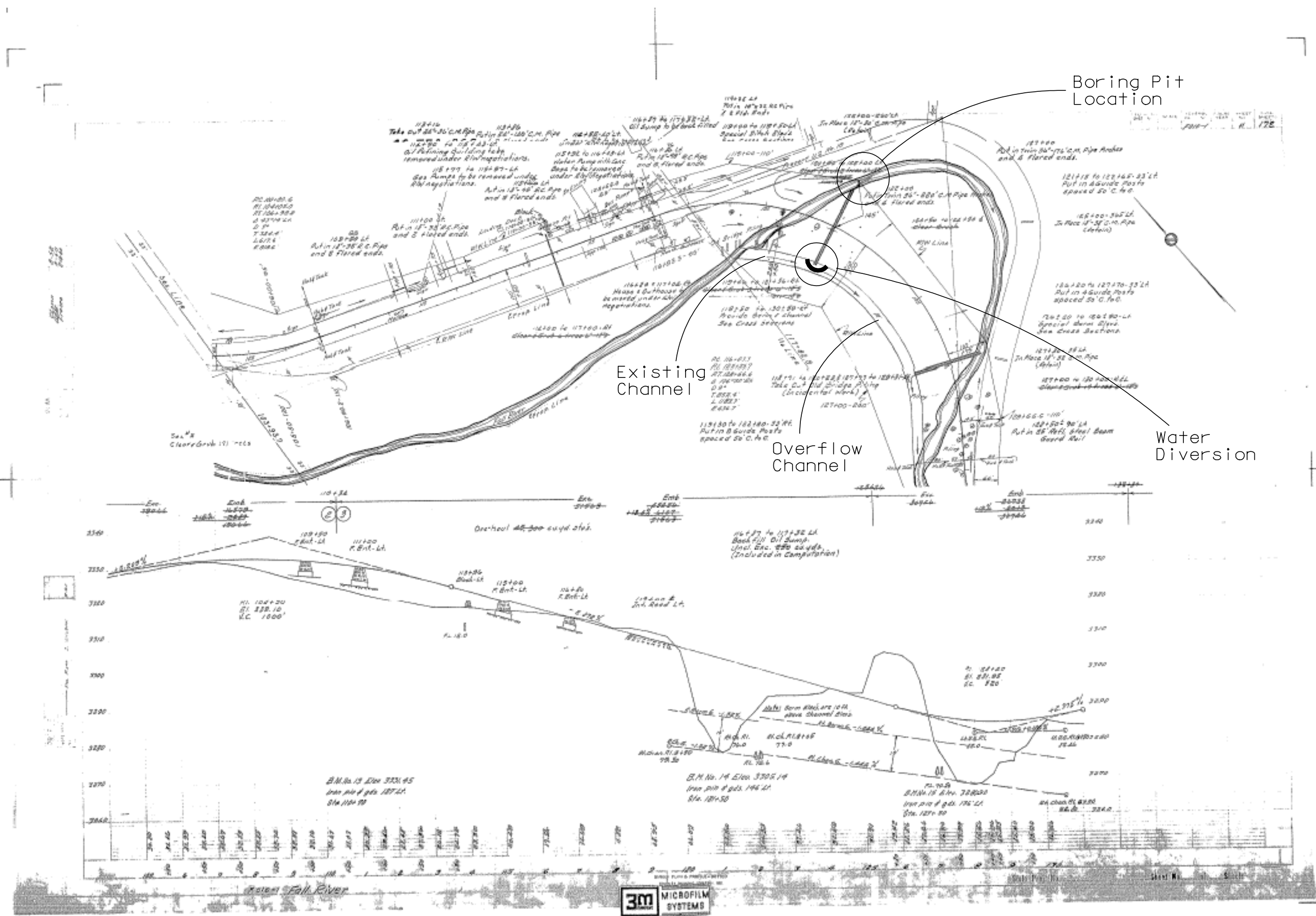
If borrow material is furnished from within the current geographical reservation boundaries or historic boundaries of the Lake Traverse, Yankton, or Flandreau-Santee reservations, the Contractor shall obtain THPO (Tribal Historical Preservation Office) clearance from the Tribal Cultural Resources Officer. This requirement is in addition to the SHPO clearance. If no Tribal contact exists, the required SHPO clearance shall suffice, with documentation of Tribal contact efforts provided to SHPO.

To facilitate SHPO and THPO responses, the Contractor should submit a cultural resources survey report or the results of the literature search along with a legal description of the site, a topographical map with the site clearly marked, and evidence of prior site disturbance to Terrence G. Keller, DOT Environmental Supervisor, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3721). Allow 30 days from the date this information is submitted to the Environmental Supervisor for SHPO approval. The Contractor is responsible for obtaining all required permits and clearances for the borrow and/or waste disposal site(s) prior to commencing construction activities at the borrow and/or waste disposal site(s). The Contractor shall provide the required permits and clearances to the Engineer at the preconstruction meeting.

UTILITIES

It is not anticipated that any utilities will be found within the boundaries of the project. The Contractor, however, will be responsible for locating and protecting any utility that would conflict with any work. Any damage done to a utility will be the Contractor's responsibility to repair at no cost to the State.

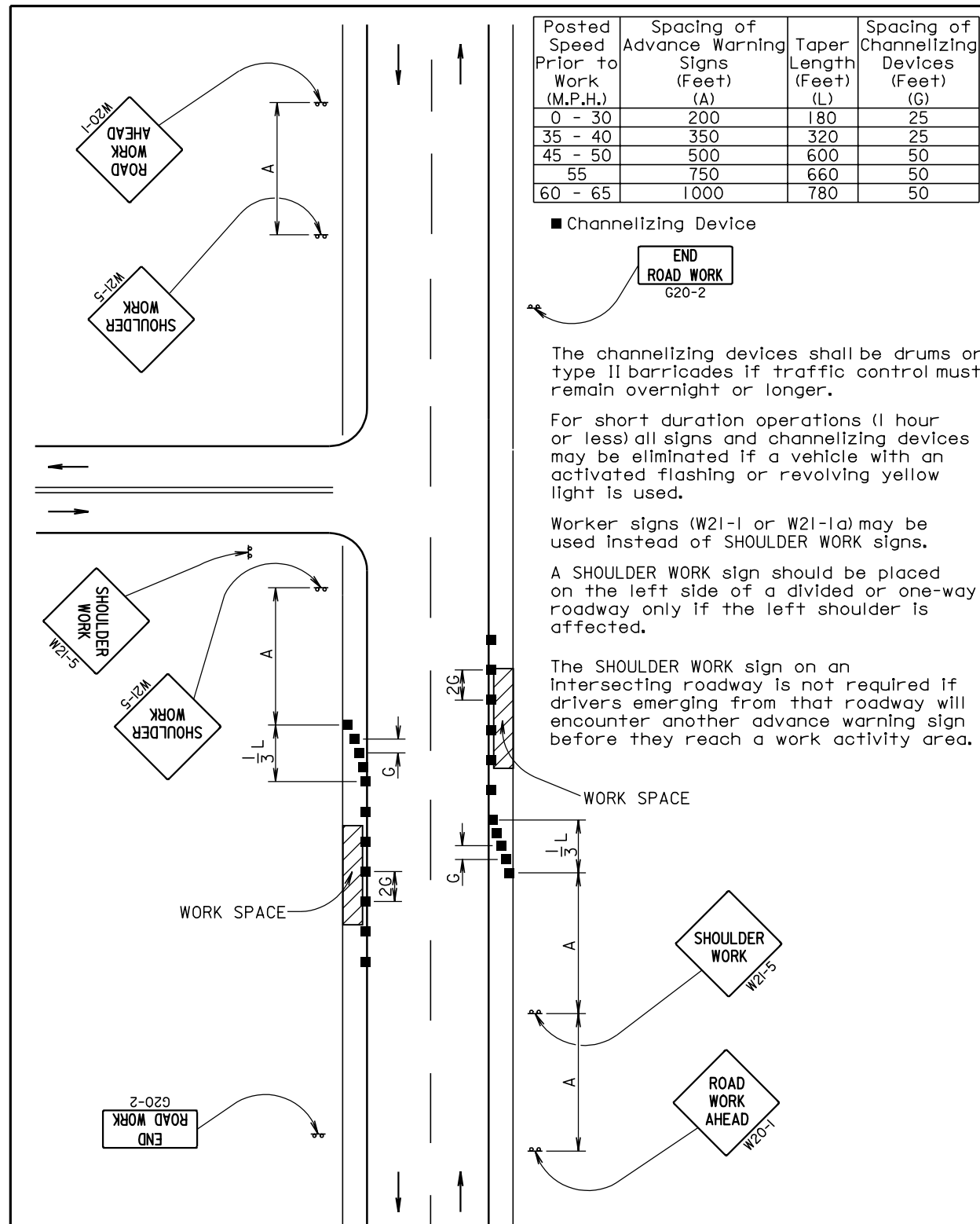
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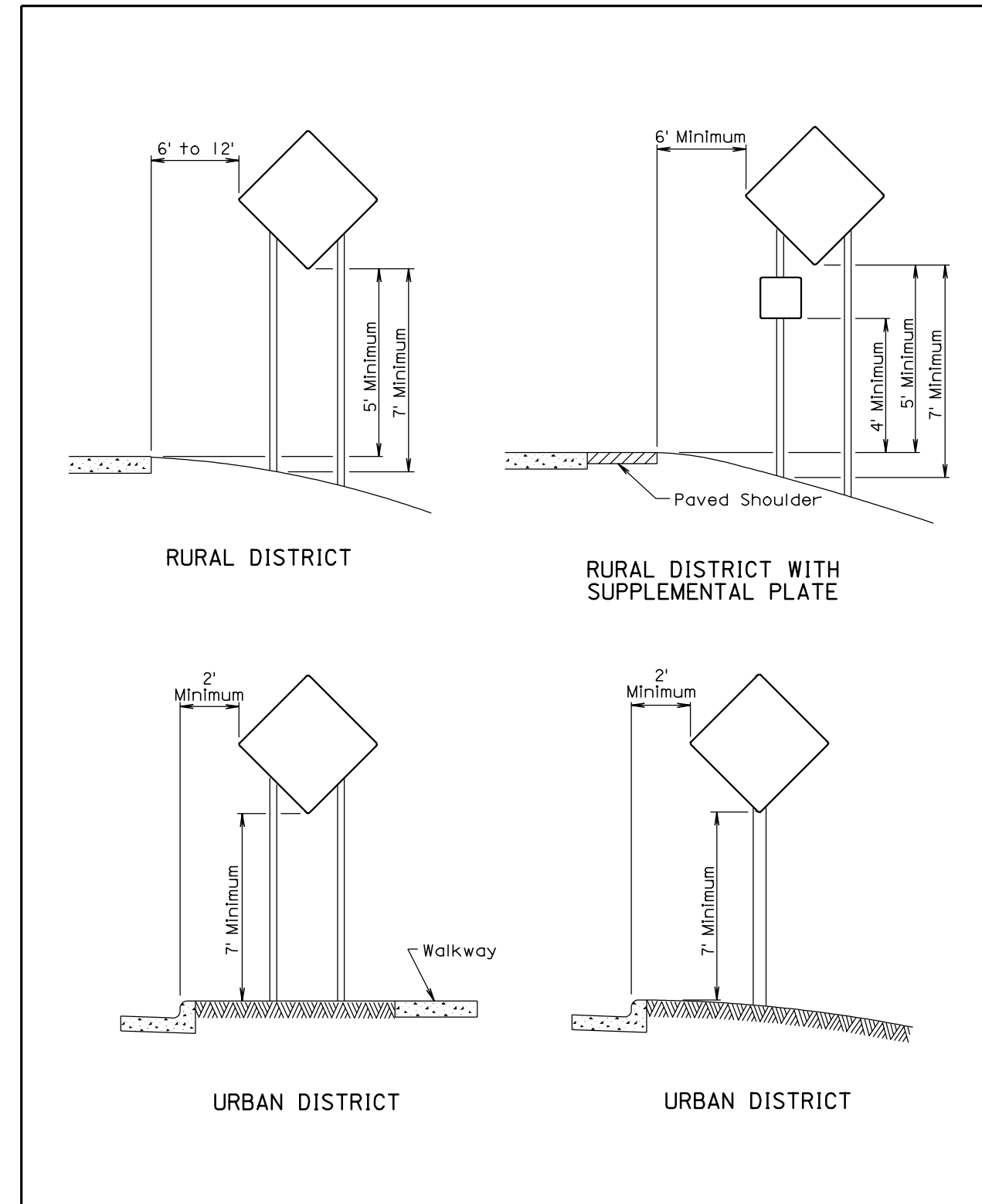
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July 1, 2005



December 23, 2003