

SEE STANDARD DETAIL DRAWING 15A4 FOR DELINEATOR DETAILS AND SPACING **DELINEATION**

GENERAL NOTES

PROVIDE EXPANSION JOINTS WHERE THERE ARE EXISTING EXPANSION JOINTS OR AT THE END OF EACH POUR.

NO HORIZONTAL STEEL CROSSES EXPANSION JOINTS.

CONSTRUCT PER STANDARD SPECIFICATION 603. SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASETENED TOGETHER UNLESS NOTED OTHERWISES.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

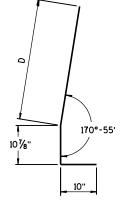
USE 34" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR.

OPTIONAL CONSTRUCTION

BARRIER WALL DIMENSIONS

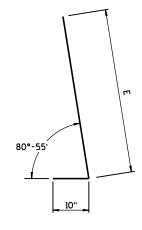
BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO.5 BARS EACH
32	7	5	8
36	61/4	5¾	8
42	51/4	6¾	10
56	3	9	11



V1 BAR BENDING DETAIL

BAR PLACEMENT NEAR

INLET



V2 BAR BENDING DETAIL

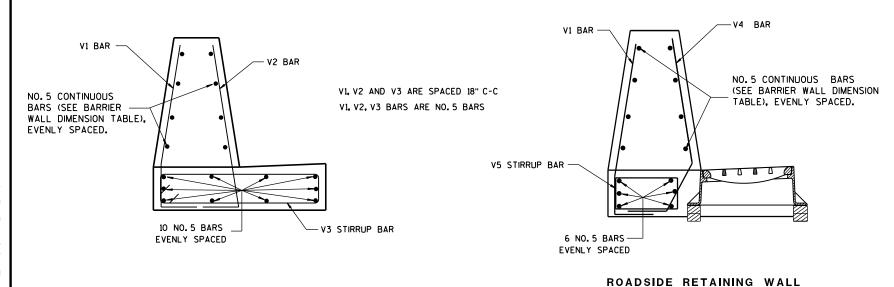
BAR CHART ROADSIDE RETAINING WALL

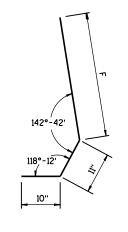
BARRIER HEIGHT	V1 BAR D	V2 BAR E	V4 BAR F
32"	2'-5½"	3'-41/2"	2'-6 ¹ / ₂ "
36"	2'-91/2"	3'-9¾"	2'-10¾"
42"	3'-31/2"	4'-21/2"	3'-4¾"
56"	4'-5¾"	5'-4¾"	4'-6¾"

ROADSIDE RETAINING WALL

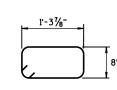
ROADSIDE RETAINING WALL

NORMAL BAR PLACEMENT





V4 BAR **BENDING DETAIL**



V5 STIRRUP BAR BENDING DETAIL



V3 STIRRUP BAR BENDING DETAIL

SINGLE SLOPE ROADSIDE RETAINING WALL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

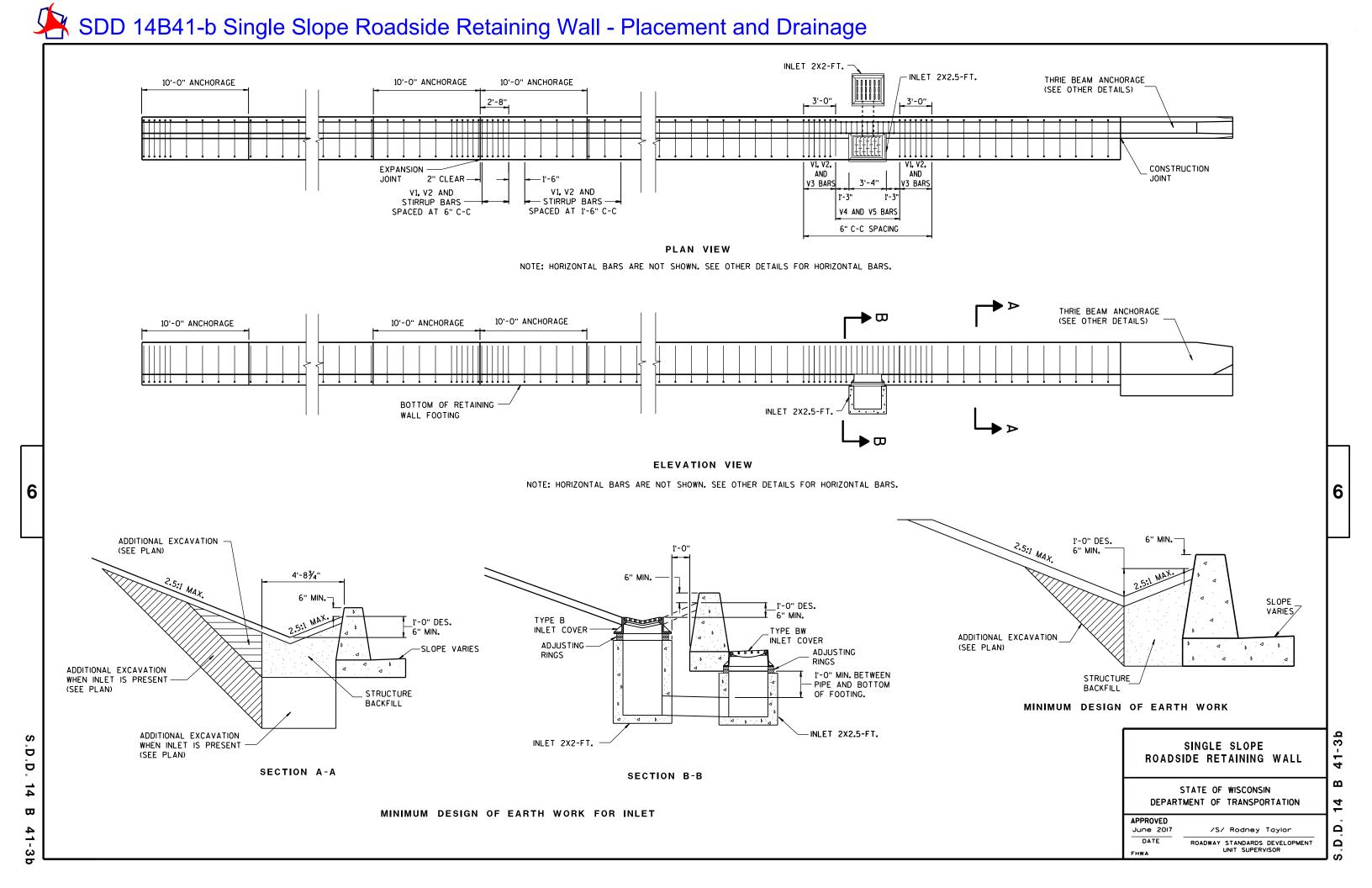
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JOINT, ROUGH FINISHED

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Standard Detail Drawing 14B41 (sheet ab)

June 30, 2017

Single Slope Roadside Retaining Wall

References:

Standard Spec 603 FDM 11-45-30

Bid items associated with this drawing:

Bid items for single slope barrier and associated transitions are encoded as follows:

BARRIER BID ITEM TYPES		DESCRIPTION	CODE
\$ 36 A		New Jersey shape	NJ
Shape —— Theight in inches	SHAPE	F shape	F
Class <u>example:</u> Concrete Barrier Type S36A is a 36" single sloped median retaining wall barrier		Vertical	V
		Single slope barrier	S
TRANSITION BID ITEM TYPES		Standard barrier section	none
Shape — F 32 SF to S 32	CLASS	Median retaining wall	A
Height in inches ————————————————————————————————————		Short barrier section	В
Height in inches		Roadside retaining wall	С
<u>example:</u> Concrete Barrier Transition Type F32SF to S32 is a transition from 32" single faced F barrier to a 32" single sloped barrier		Double faced barrier	DF
		Single faced barrier	SF

ITEM NUMBER	<u>DESCRIPTION</u>	<u>UNIT</u>
210.1100	Backfill Structure Type A	CY
210.1500	Backfill Structure Type A	TON
210.2100	Backfill Structure Type B	CY
210.2500	Backfill Structure Type B	
516.0500	Rubberized Membrane Waterproofing	SY
603.1436	Concrete Barrier Type S36C	
603.1442	Concrete Barrier Type S42C	
603.1456	Concrete Barrier Type S56C	
611.0606	Inlet Covers Type B	EACH
611.0610	Inlet Covers Type BW	
611.3003	Inlets 3-FT Diameter	
611.3220	Inlets 2x2-FT	EACH

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 8A5	Inlet Covers
SDD 8C7	Inlets 2x2-FT, 2x2.5-FT, & 2.5x3-FT
SDD 14B20	Steel Thrie Beam Structure Approach
SDD 14B32	Concrete Barrier Single Slope
SDD 14B34	Single Slope Barrier Runs under 40 feet
SDD 14B45	Midwest Guardrail System Transitions (MGS)

Design Notes:

An individual site analysis by a structural or soils engineer is required to determine if the barrier design will satisfy the structural needs of the retaining wall.

Soils engineer or structural engineer are to select backfill item to be used.

<u>FDM 11-45-30.3.6.4.4</u> discusses using concrete barrier as a retaining wall. Also, refer to the <u>Bridge Manual Chapter 14</u> - Retaining Walls) and <u>FDM 11-55-5</u> Retaining Walls) for modified designs.

Contact Person: