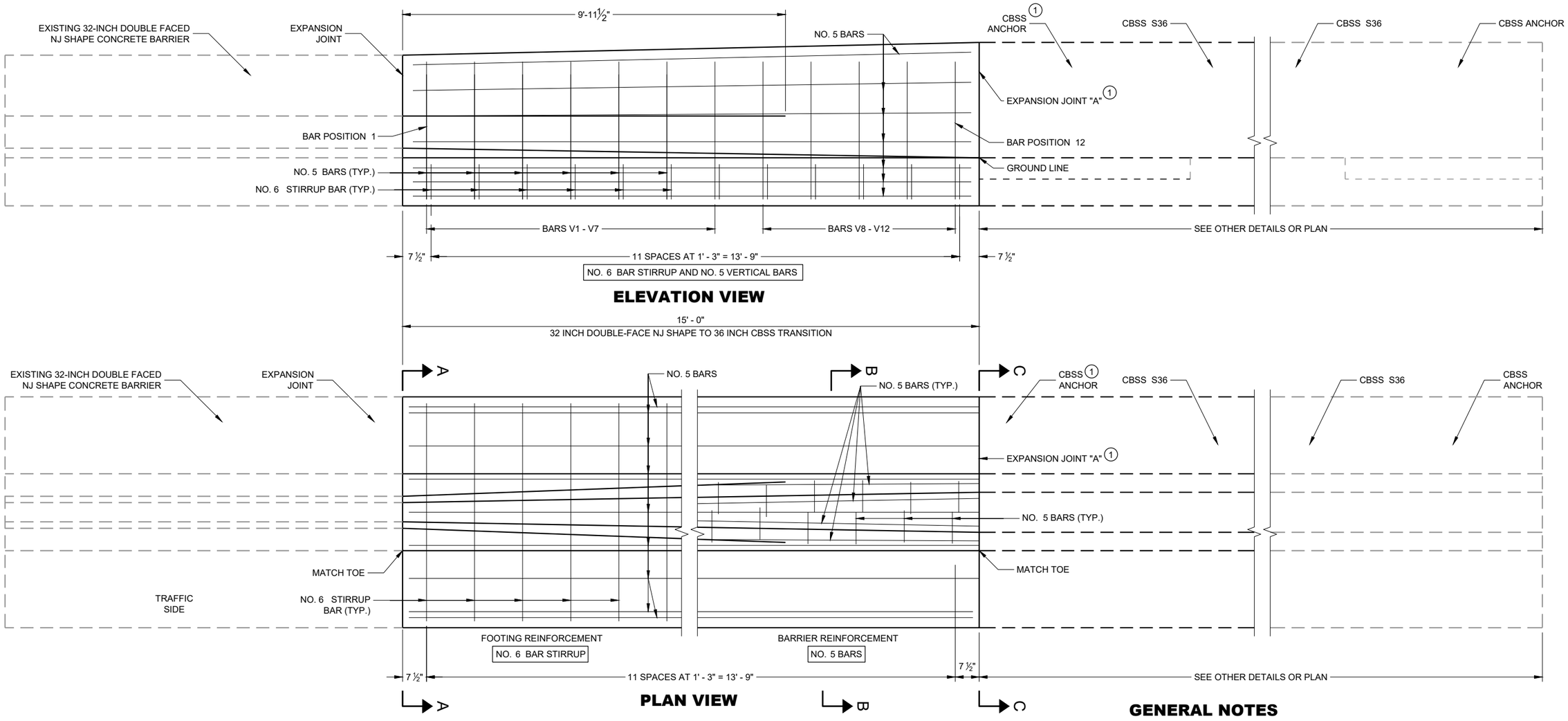
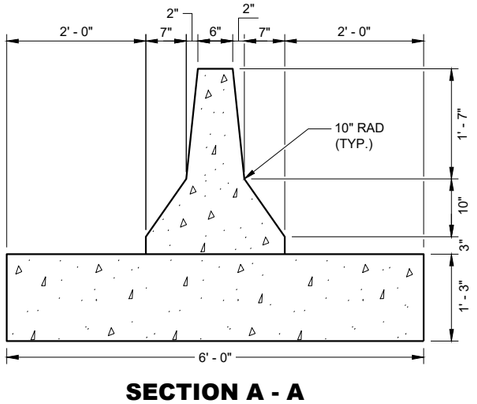
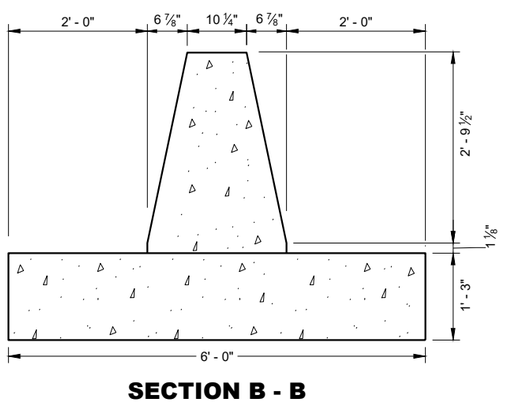
SDD 14B37-a 32" Double Faced NJ Shape Concrete Barrier to 36" Single Slope Concrete Barrier Transition Layout

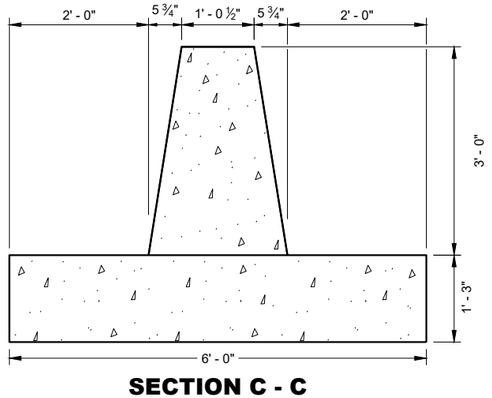




SECTION A - A



SECTION B - B



SECTION C - C

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

(1) EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD JOINT IS USED, ANCHOR IS NOT REQUIRED.

32 - INCH DOUBLE FACED NJ SHAPE CONCRETE BARRER TO 36 - INCH SINGLE SLOPE CONCRETE BARRIER TRANSITION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B37 - 02a

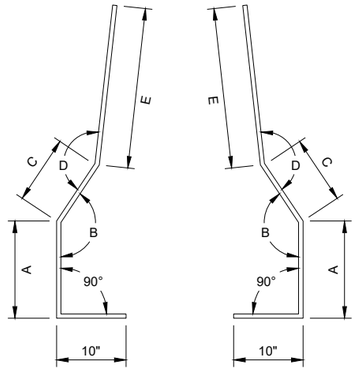
6

SDD 14B37 - 02a

SDD 14B37-b 32" Double Faced NJ Shape Concrete Barrier to 36" Single Slope Concrete Barrier Transition-Steel Layout

BAR CHART
BAR POSITIONS
1 - 7

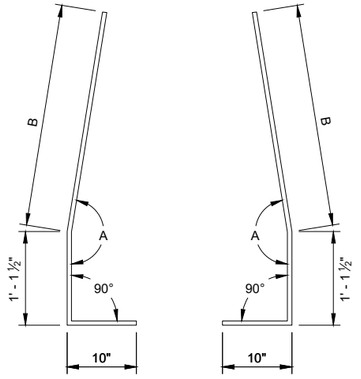
BAR	A	B	C	D	E
V1	1' - 2 ¼"	148°	1' - 1 ¼"	154°	1' - 5 ½
V2	1' - 2 ¼"	151°	1' - 1"	158°	1' - 6"
V3	1' - 2"	154°	1' - ¾"	161°	1' - 6 ½"
V4	1' - 2"	157°	1' - ½"	164°	1' - 7"
V5	1' -1 ½"	159°	1' - ¼"	168°	1' - 8"
V6	1' -1 ½"	162°	1' - ¼"	173°	1' - 8"
V7	1' -1 ½"	165°	1' - ¼"	176°	1' - 8"



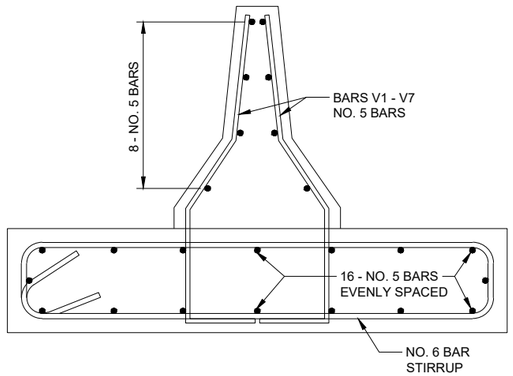
BAR BENDING DETAIL
BARS V1 - V7

BAR CHART
BAR POSITIONS
8 - 12

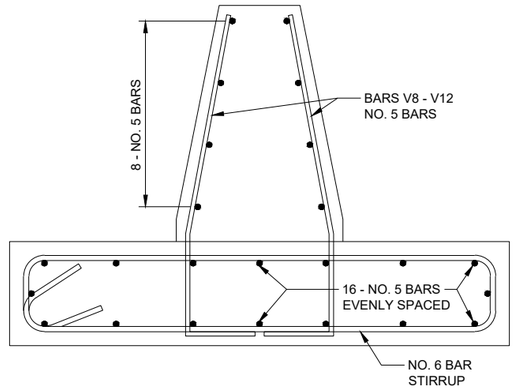
BAR	A	B
V8	169°	2' - 8"
V9	170°	2' - 8 ½"
V10	170°	2' - 9"
V11	171°	2' - 9"
V12	171°	2' - 9 ½"



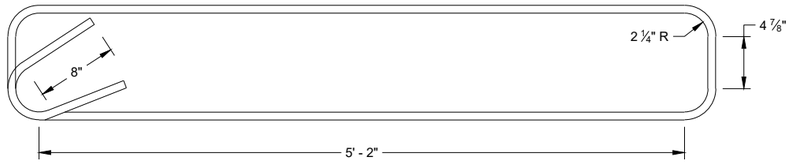
BAR BENDING DETAIL
BARS V8 - V12



BAR DETAIL
BAR POSITIONS V1 - V7



BAR DETAIL
BAR POSITIONS V8 - V12



STIRRUP BAR
BENDING DETAIL

32 - INCH DOUBLE FACED NJ SHAPE CONCRETE BARRIER TO 36 - INCH SINGLE SLOPE CONCRETE BARRIER TRANSITION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

SDD 14B37 - 02b

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SDD 14B37 - 02b

Version 2 **Standard Detail Drawing 14B37** (sheet ab) *February 2020*

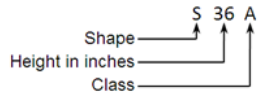
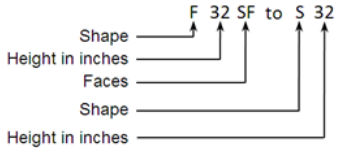
Double-Faced NJ Shape Concrete Barrier to Single Slope Concrete Barrier Transitions

References:

NONE

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
 *example: Concrete Barrier Type S36A is a 36" single sloped median retaining wall barrier*	SHAPE	New Jersey shape	NJ
		F shape	F
		Vertical	V
		Single slope barrier	S
TRANSITION BID ITEM TYPES	CLASS	Standard barrier section	none
 *example: Concrete Barrier Transition Type F32SF to S32 is a transition from 32" single faced F barrier to a 32" single sloped barrier*		Median retaining wall	A
		Short barrier section	B
		Roadside retaining wall	C
	FACES	Double faced barrier	DF
		Single faced barrier	SF

ITEM NUMBER	DESCRIPTION	UNIT
603.3311	Concrete Barrier Transition Type NJ32DF to S32	EACH
603.3313	Concrete Barrier Transition Type NJ32DF to S36	EACH
603.3355	Concrete Barrier Transition Type NJ42DF to S42	EACH
603.3375	Concrete Barrier Transition Type NJ51DF to S42	EACH
603.3300 - 3399	Concrete Barrier Transition (type)	EACH

Standardized Special Provisions associated with this drawing:

STSP NUMBER	TITLE

NONE

Other SDDs associated with this drawing:

SDD 14B32	Concrete Barrier Single Slope
SDD 14B34	Short Concrete Barrier Sections (Use for runs of less than 40')

Design Notes:

Use these details when a transition from double faced New Jersey shape to single slope barrier is needed.

Contact Person:

Erik Emerson (608) 266-2842