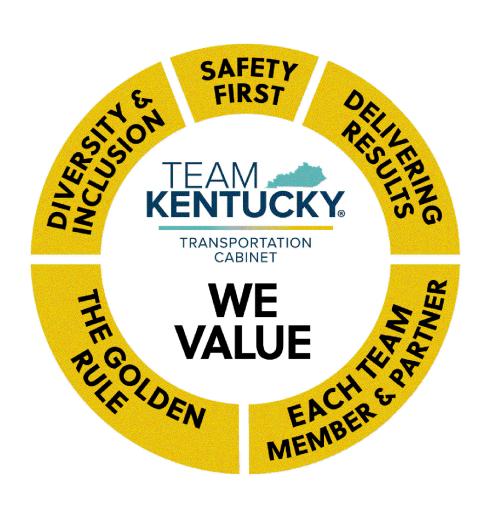
SHEET TITLE	SHEET NUMBER	TOTAL SHEETS	REVISION NUMBER
CONCRETE MEDIAN BARRIER TL3 42 IN	SHEET 001	1 OUT OF 14	0
CONCRETE MEDIAN BARRIER TL3 42 IN - NOTES	SHEET 002	2 OUT OF 14	0
CONCRETE MEDIAN BARRIER TL3 42 IN - HORIZONTAL TRANSITIONS	SHEET 003	3 OUT OF 14	0
CONCRETE MEDIAN BARRIER TL3 42 IN END SECTIONS	SHEET 004A	4A OUT OF 14	1
CONCRETE MEDIAN BARRIER TL3 42 IN END SECTIONS	SHEET 004B	4B OUT OF 14	1
CONCRETE MEDIAN BARRIER TL3 42 IN END SECTIONS - NOTES	SHEET 005	5 OUT OF 14	0
CONCRETE MEDIAN BARRIER TL5 56 IN	SHEET 006	6 OUT OF 14	1
CONCRETE MEDIAN BARRIER TL5 56 IN - NOTES	SHEET 007	7 OUT OF 14	1
CONCRETE MEDIAN BARRIER TL5 56 IN - HORIZONTAL TRANSITIONS	SHEET 008	8 OUT OF 14	0
CONCRETE MEDIAN BARRIER BOX INLET TL5 56 IN	SHEET 009	9 OUT OF 14	0
CONCRETE MEDIAN BARRIER BOX INLET TL5 56 IN - DETAILS	SHEET 010	10 OUT OF 14	0
CURB TO SINGLE SLOPE BARRIER TRANSITION	SHEET 011	11 OUT OF 14	0
DELINEATORS FOR CONCRETE BARRIERS	SHEET 012	12 OUT OF 14	0
CONCRETE BARRIER WALL TYPE 9T (TEMPORARY)	SHEET 013	13 OUT OF 14	0
BOX BEAM STIFFENING PF TEMPORARY CONCRETE BARRIER	SHEET 014	14 OUT OF 14	0







12-12-2024

SEPIA 042: CONCRETE BARRIER WALLS [SEPIA PACKET]

RELEASE DATE: 07.26.2024 *UPDATED:* 12.12.2024

EFFECTIVE LETTING DATE: FOR IMMEDIATE RELEASE AND USE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TRANSPORTATION
TR

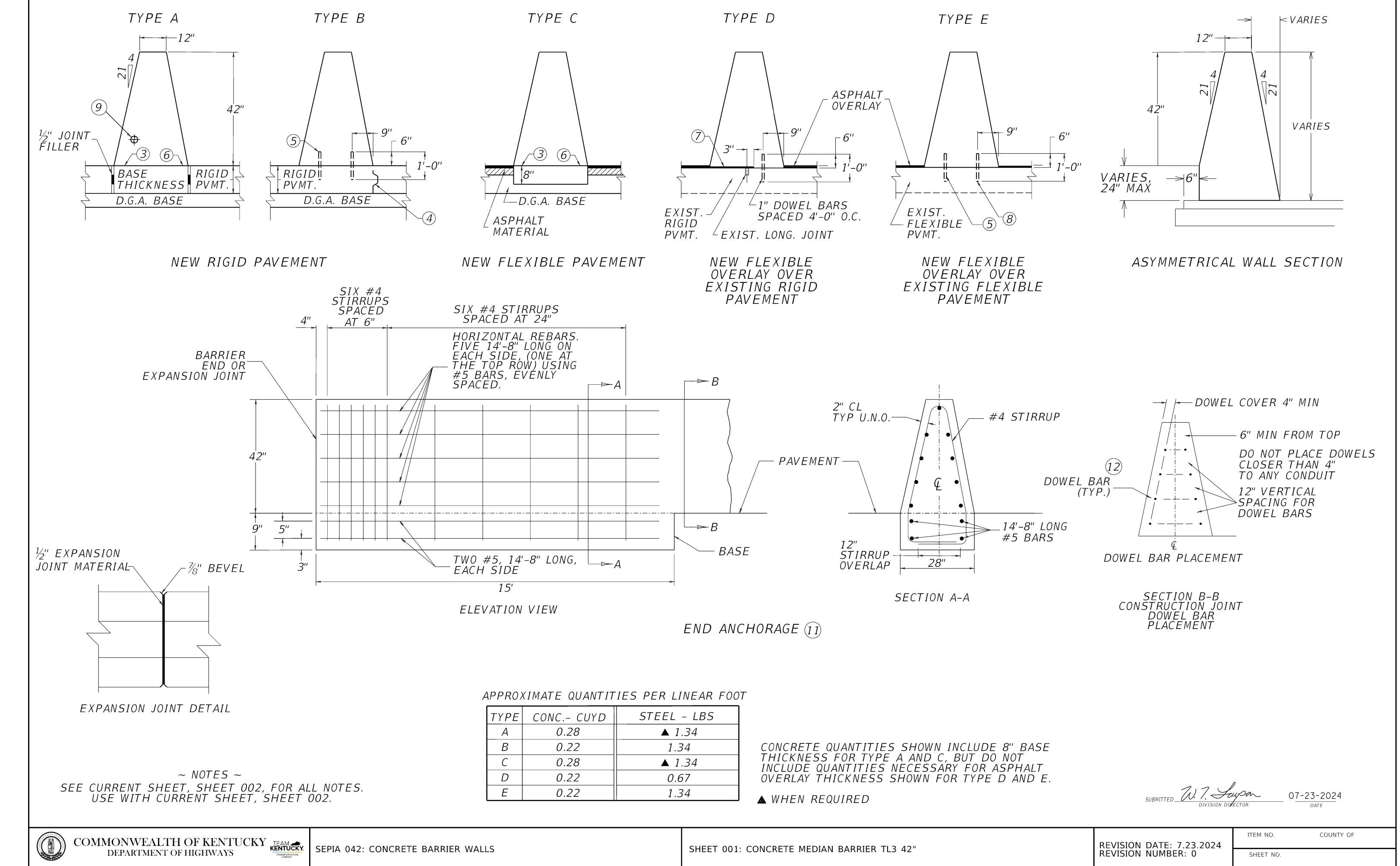
SEPIA 042: CONCRETE BARRIER WALLS

COVER SHEET FOR SEPIA 042: CONCRETE BARRIER WALLS

REVISION DATE: 12.12.2024

COUNTY OF

ITEM NO.



- 1. FOR WALLS IN TRANSITION AND SEPARATE SEGMENT WALLS, SEE CURRENT SHEET, SHEET 003, FOR APPROPRIATE BID ITEMS.
- 2. THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR CONCRETE MEDIAN BARRIER SHALL BE FULL COMPENSATION FOR ALL MATERIALS (INCLUDING THE BASE IN TYPES A AND C AND ALL REINFORCING STEEL), EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
- ③ WHEN A CONSTRUCTION JOINT IS USED, DOWEL BARS WILL BE REQUIRED AS SHOWN WITH TYPE B BARRIER. SEE NOTE 5.
- 4 LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS IS REQUIRED AND SHALL BE PLACED AT THE LOCATION SHOWN OR MAY BE INSTALLED AT THE CORRESPONDING POINT ON THE OPPOSITE SIDE OF THE BARRIER, AT THE OPTION OF THE CONTRACTOR. IT SHALL BE REQUIRED ON THE LOW SIDE OF A SUPERELEVATED SECTION. CONSTRUCTION JOINT PERMITTED WHEN FIXED FORMS OR SLIP FORMS ARE USED.
- (5) 1" DOWEL BARS SPACED 4'-0" O.C. AND STAGGERED 2'-0".
- (6) POLYETHYLENE (6 MILS THICK) BOND BREAKER.
- (7) PAVEMENT SHALL BE DRILLED AND BARS GROUTED.
- (8) BARS SHALL BE EITHER DRILLED AND GROUTED OR DRIVEN.
- 9 3" RACEWAY (TYPICAL) SEE ELSEWHERE IN THE PLANS FOR LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.
- 10. CONSTRUCT 42" CONCRETE MEDIAN BARRIER USING CONCRETE CLASS AA WITH A STRENGTH OF 4000PSI.
- (1) REINFORCED END ANCHORAGES ARE REQUIRED AT THE ENDS OF CONCRETE BARRIER RUNS. CONSTRUCT THE LAST 15' USING THE END ANCHORAGE DETAIL AS SHOWN HERE. AT EXPANSION JOINTS, CONSTRUCT AN END ANCHORAGE ON BOTH SIDES OF JOINT, WITH A MAX GAP OF 2" FOR THE OPEN JOINT. THE MAX EXPANSION JOINT SPACING SHALL BE 800'. THIS ANCHORAGE IS NOT NEEDED AT CONSTRUCTION JOINTS.
- BARRIER RUNS WITH ABUTTING VERTICAL SURFACES AT EITHER REQUIRED OR PERMISSIBLE CONSTRUCTION JOINTS ARE TO BE DOWELED TO EACH OTHER BY USE OF 3/4" DIAMETER BY 18" LONG EPOXY COATED DEFORMED DOWEL BARS. BARS ARE TO BE PLACED AS SHOWN ON THE DOWEL BAR PLACEMENT DETAIL ON SEPIA 018. PROVIDE A 4" CLEARANCE TO BARRIER SURFACES AND TO ANY RACEWAYS. PAYMENT FOR DOWELS IS INCIDENTAL TO THE BID ITEM.
- 13. CONSTRUCT USING EPOXY COATED REINFORCEMENT THROUGHOUT WHEN MEDIAN BARRIER IS INSTALLED ON A STRUCTURE.

BID ITEM AND UNIT TO BID

CONC MEDIAN BARRIER TYPE 👲 TL3 42"

12"

A, B, C, D, OR E DEPENDING ON PAVEMENT TYPE.

USE WITH CURRENT SHEETS, SHEET 001 AND SHEET 003.

SUBMITTED W. 7. Jayan 07-23-2024

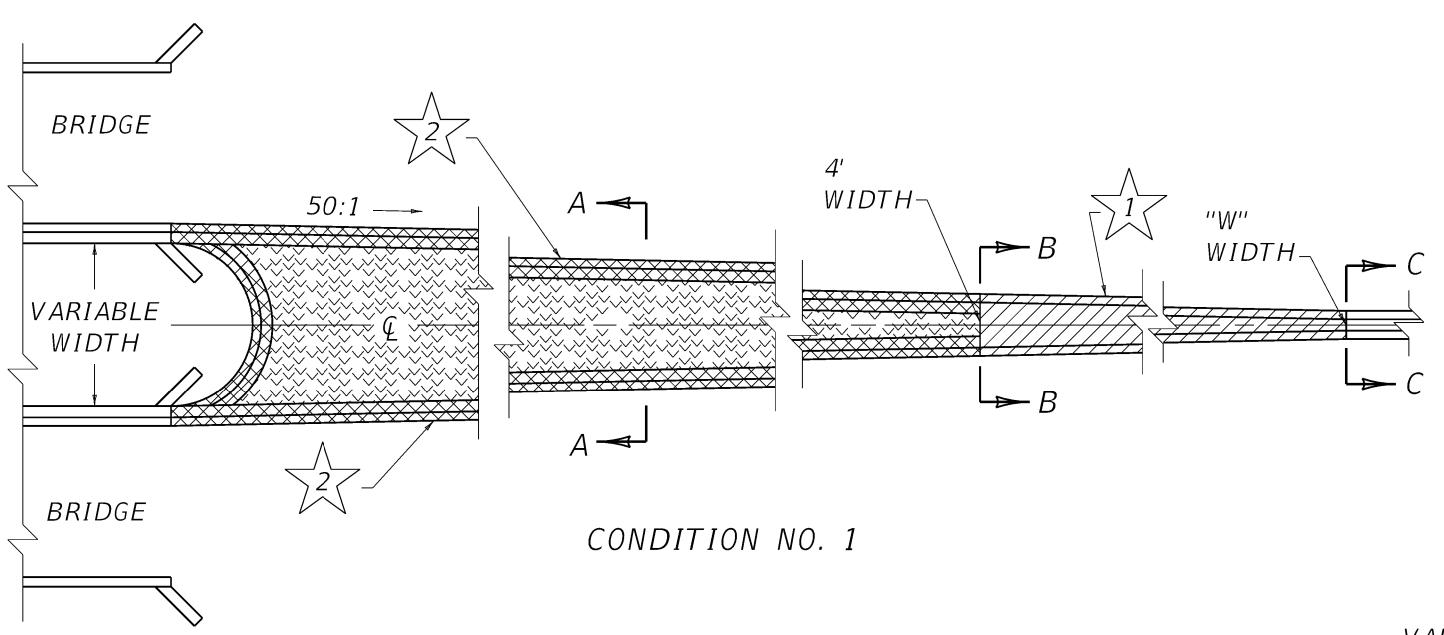
DIVISION DIRECTOR DATE

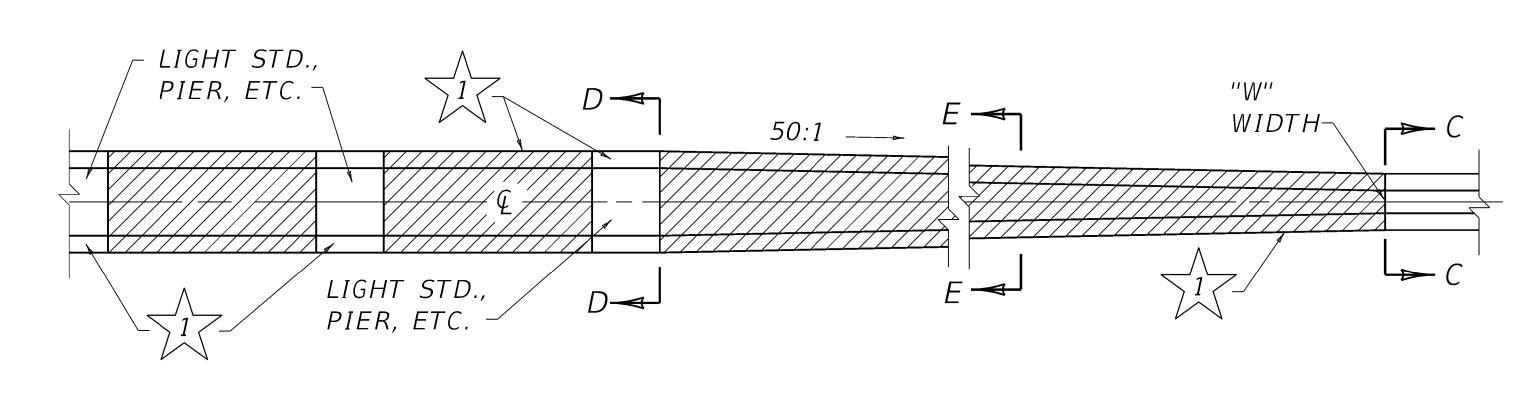
SEPIA 042: CONCRETE BARRIER WALLS

SHEET 002: CONCRETE MEDIAN BARRIER TL3 42" - NOTES

REVISION DATE: 7.23.2024 REVISION NUMBER: 0 ITEM NO. COUNTY OF

SHEET NO.





CONDITION NO. 2

~ NOTES ~

- 1. TRANSITION CONDITION NO. 1, 2 AND 3 ALONG WITH SYMMETRICAL AND ASYMMETRICAL BARRIER SECTIONS ARE DEPICTED ON THIS DRAWING FOR ILLUSTRATION PURPOSES ONLY AT STRUCTURES AND FIXED OBJECTS. (SEE PLANS FOR ADDITIONAL DETAILS)
- 2. ALL PAVEMENT, FILL MATERIAL, PIPE DRAINAGE (EXCLUSIVE OF WEEP HOLE PIPE)
 PLACED BETWEEN SEGMENTS OF THE BARRIER SHALL BE SHOWN
 SEPARATELY OR INCLUDED WITH OTHER LIKE PAY ITEMS ON THE PROJECT.
- 3. FOR APPLICATION DETAILS TO NEW OR EXISTING PAVEMENT SEE CUR. SHEET, SHEET 001.
- $\stackrel{\cdot}{(4)}$ SEE ELSEWHERE IN PLANS FOR SIZE, LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.
- (5) 4" PIPE FOR WEEP HOLES SPACED ON 20' CENTERS AND STAGGERED 10' WITH EACH WALL.

BID ITEM AND UNIT TO BID:
CONCRETE MEDIAN BARRIER TYPE

TL3 42" LF

<u> A, B, C, D OR E DEPENDING ON PAVEMENT APPLICATION.</u>

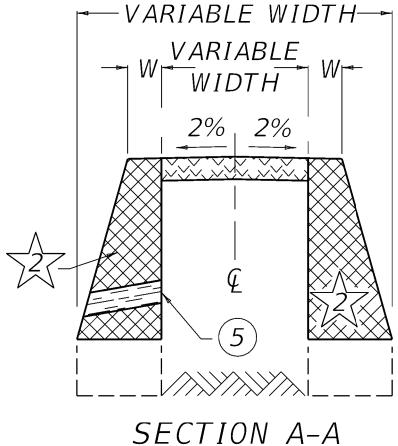
1 = SOLID SEGMENT- DENOTES BARRIER WALL WITH:

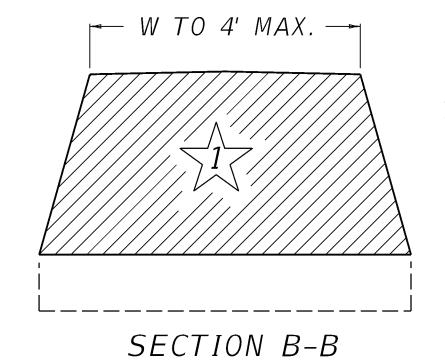
a. TRANSITION FROM "W" WIDTH TO MAX. WIDTH OF 4".

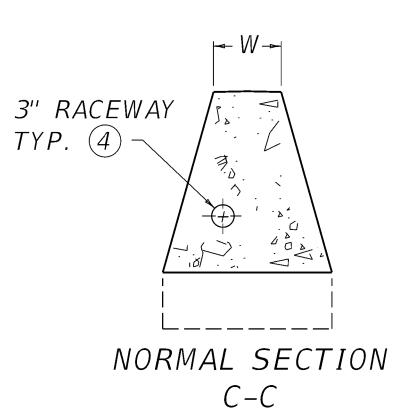
b. CONSTANT WIDTH WALL GREATER THAN "W" WIDE BUT NOT GREATER THAN 4' WIDE. (EX.: WALL BETWEEN BRDG. PIERS).

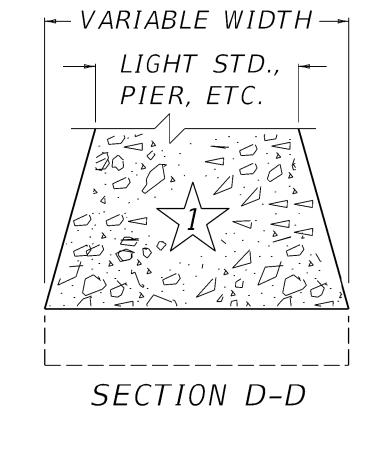
2 = SEPARATE SEGMENT THE METHOD OF MEASUREMENT FOR CONCRETE MEDIAN BARRIER FOR EACH TYPE WILL BE IN LINEAR FEET MEASURED ALONG THE TOP

USE WITH CURRENT SHEET, SHEET 001.









VARIABLE WIDTH MAX.

SECTION E-E

SUBMITTED W. 7. Jaypan
DIVISION DIRECTOR

07-23-2024

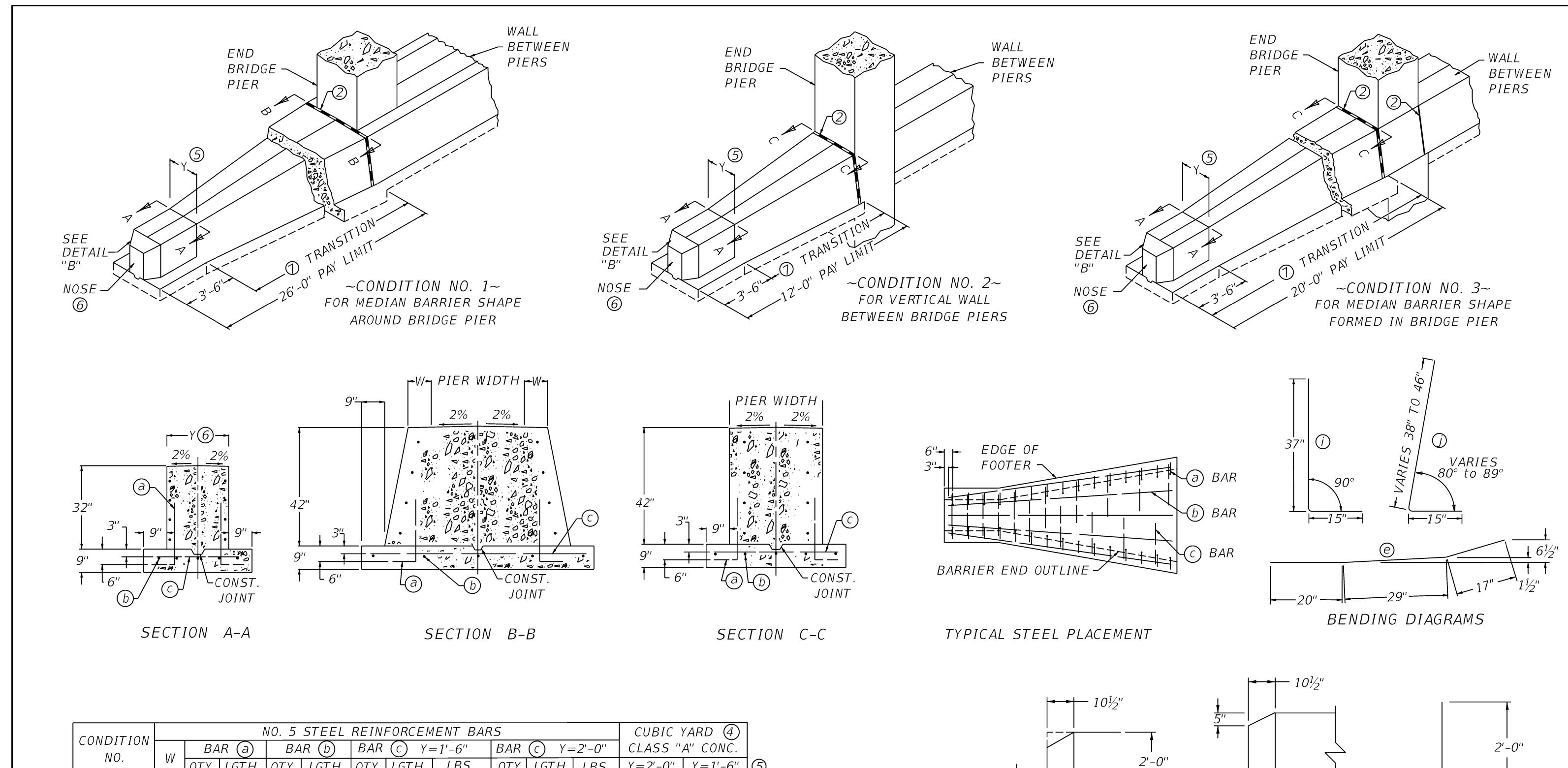
COMMONWEALTH OF KENTUCKY TEAM DEPARTMENT OF HIGHWAYS

CENTERLINE OF THE BARRIER.

SEPIA 042: CONCRETE BARRIER WALLS

SHEET 003: CONCRETE MEDIAN BARRIER TL3 42" - HORIZONTAL TRANSITIONS

REVISION DATE: 7.23.2024 REVISION NUMBER: 0 ITEM NO. COUNTY OF
SHEET NO.



CONDITION			I	VO. 5	STEEL	REIN	FORCEM	IENT BAF	R <i>S</i>			CUBIC YARD (4)			
CONDITION NO.	1/1/	ВА	IR (a)	BA	AR (b)	BAR	C Y=	=1'-6''	BAR	C Y=	=2'-0''	CLASS ",	A" CONC.		
NO.	W	QTY.	LGTH.	QTY.	LGT H.	QTY.	LGTH.	LBS.	QTY.	LGT H.	LBS.	Y = 2' - 0''	Y = 1' - 6''	(5)	
1	6''	<i>52</i>			25'-8''	52		429	52		456	13.35	12.41		
2	_	24	2'-9''	5	11'-8''	24	2'-8''	197	24	3'-2''	210	4.46	3.98		
3	_	40			19'-8''	40		329	40		350	7.70	6.96		

@ SEE NOTE 7 ON SHEET 005 FOR LONGITUDINAL DOWELS

~NOTES~ SEE CURRENT SHEET, SHEET 005, FOR ALL NOTES.

USE WITH CURRENT SHEET, SHEET 005.

SUBMITTED W. 7. Supar 12-12-2024

DIVISION DIRECTOR DATE



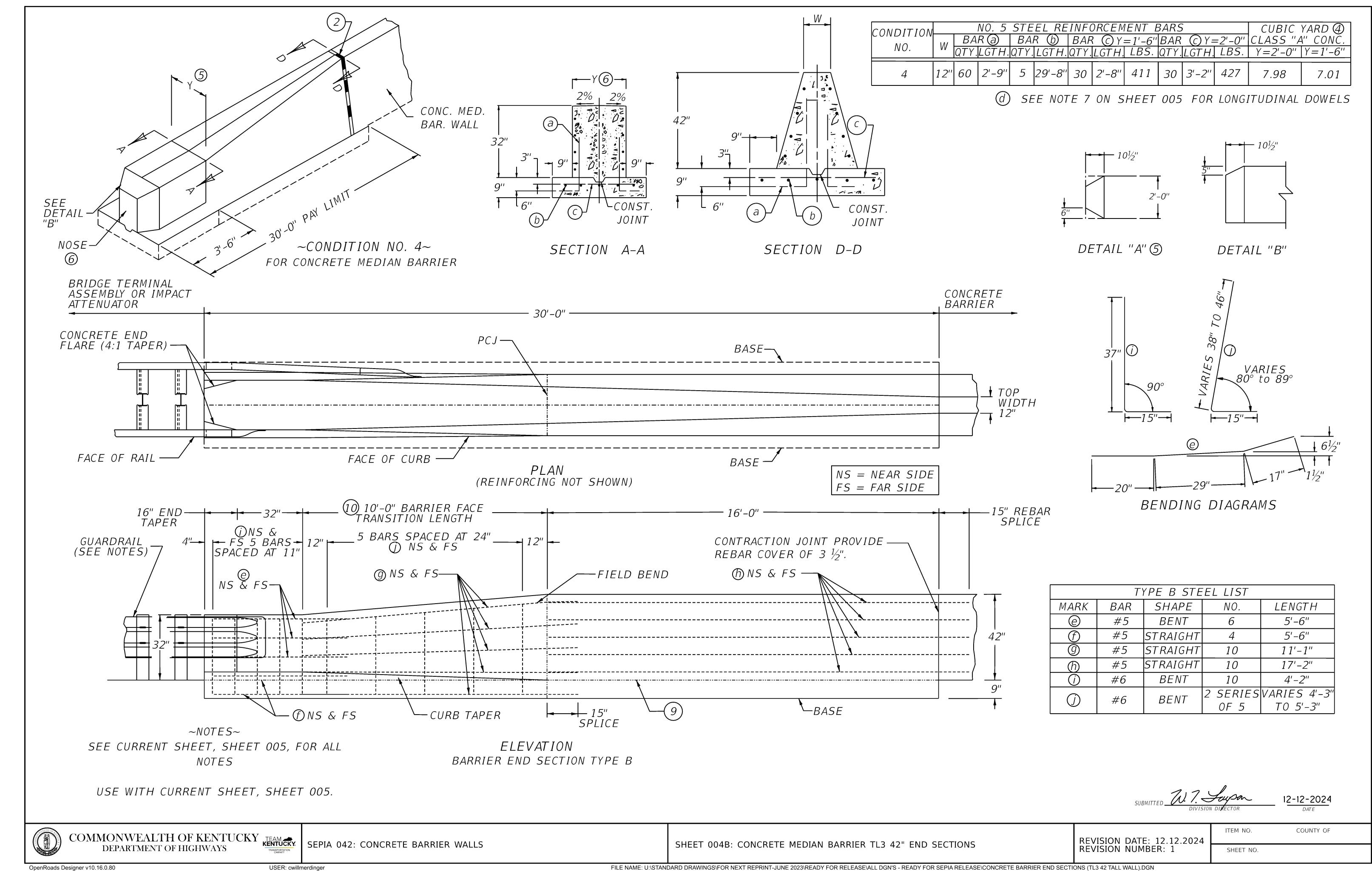
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ΚΥ	SFPIA	N42·	CONCRETE	RARRIFR	$\Lambda \Lambda $
ON)	0 1 2 .	CONCRETE	D/ (I (I (I L I (VV/ \LLS

DETAIL "B"

BAR (a)

DETAIL "A" 6



- 1. THE CONTRACT UNIT PRICE SHALL INCLUDE ALL MATERIALS, TOOLS, COMPLETE THE WORK IN ACCORDANCE WITH THIS DRAWING.
- (2) $\frac{1}{2}$ " PREMOLDED EXPANSION JOINT MATERIAL REQUIRED.
- 3. STEEL REINFORCING BARS SHALL BE EVENLY SPACED AS SHOWN AND SHALL BE GRADE 40 MINIMUM.
- 4 CONCRETE QUANTITIES FOR CONDITION NO.'S. 1, 2, AND 3 ARE BASED ON A BRIDGE PIER WIDTH OF 3'-0".
- (5) Y=2'-0" FOR CRASH CUSHION TYPE VI, AND Y=1'-6" FOR GUARDRAIL CONNECTOR TO CONCRETE MEDIAN BARRIER END.
- (6) USE CONCRETE END FLARE DETAIL "A" FOR VALTIR'S QUADGUARD CRASH CUSHION ALTERNATE. ALL OTHER CONNECTIONS REQUIRE A SQUARE NOSE.
- (7) WHEN THE CONCRETE MEDIAN BARRIER END IS PLACED AT A PIER WIDER THAN 3'-0" THE BARRIER END TRANSITION SHALL BE CONSTRUCTED ON A 12:1 MIN. TAPER AND ADDITIONAL CONCRETE AND STEEL QUANTITIES SHALL BE CALCULATED.
- 8. THIS END SECTION IS TO BE USED IN MEDIAN APPLICATIONS WHEN TRAFFIC IS ON BOTH SIDES AND ATTACHES TO A SINGLE SLOPE BARRIER. PROVIDE 2" CONCRETE COVER OVER REBARS, UNLESS SPECIFIED ELSEWISE.
- 9 PCJ: PERMISSABLE CONSTRUCTION JOINT. IN THE UNREINFORCED BASE SECTIONS, BARRIER MAY BE PLACED ON TOP OF CONCRETE BASE IF DOWELED.
- (10) TO PREVENT VEHICLE SNAGGING IN BARRIER FACE TRANSITIONS, SMOOTH TRANSITIONS FROM VERTICAL FACES TO THE SINGLE SLOPE FACES ARE MADE OVER A 10' DISTANCE.

BID ITEMS AND UNIT TO BID:

STEEL REINFORCEMENT LB

CONCRETE-CLASS AA CUYD

USE WITH CURRENT SHEETS, SHEETS 004A AND 004B.

SUBMITTED W. 7. Super 07-23-2024

DIVISION DIRECTOR DATE

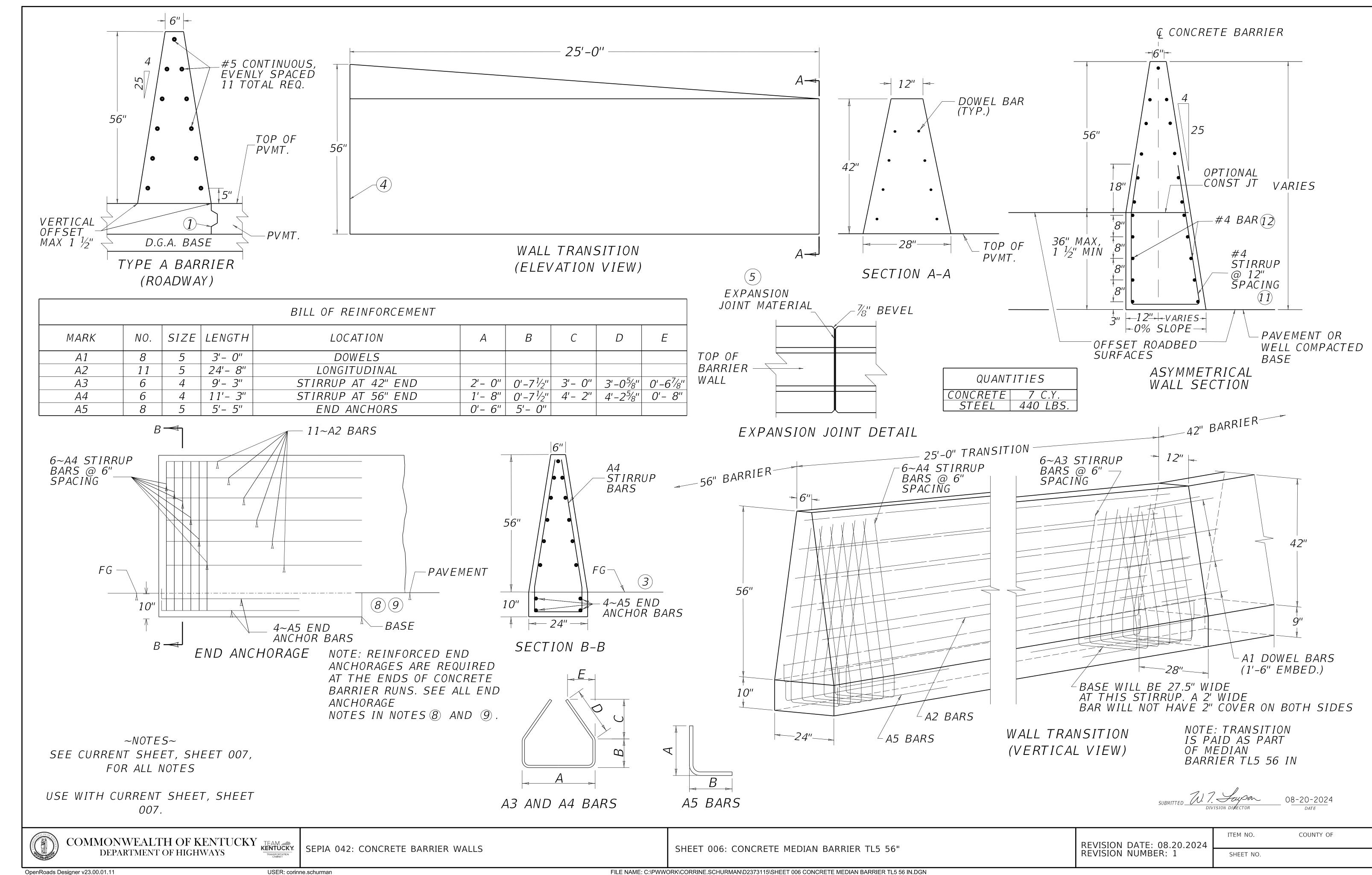
SEPIA 042: CONCRETE BARRIER WALLS

SHEET 005: CONCRETE MEDIAN BARRIER TL3 42" END SECTIONS - NOTES

REVISION DATE: 7.23.2024 REVISION NUMBER: 0 ITEM NO. COUNTY OF

SHEET NO.

FILE NAME: C:\PWWORK\CORRINE.SCHURMAN\D2359507\SHEET 005 CONCRETE MEDIAN BARRIER TL3 42 IN END SECTIONS - NOTES.DGN



- FOR RIGID PAVEMENT, LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS IS REQUIRED AND SHALL BE PLACED AT THE LOCATION SHOWN OR MAY BE INSTALLED AT THE CORRESPONDING POINT ON THE OPPOSITE SIDE OF THE BARRIER, AT THE OPTION OF THE CONTRACTOR. IT SHALL BE REQUIRED ON THE LOW SIDE OF A SUPERELEVATED SECTION.
- 2. 3" RACEWAY (TYPICAL). SEE ELSEWHERE IN THE PLANS FOR LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.
- FOOTING CAN BE MONOLYTHICALLY POURED OR DOWELED WITH 2-#8 X 8" @ 2'-0" SPACING. THE FOOTING IS REQUIRED AT CONCRETE BARRIER ENDS.
- SEE TYPE "A" OR "B" BARRIER DETAIL FOR WALL DIMENSIONS. SEE BRIDGE DRAWINGS FOR TYPE "B", WHEN APPLICABLE.
- TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED PER STANDARD SPECIFICATONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 6. CONSTRUCT USING CONCRETE CLASS AA WITH A STRENGTH OF 4000 PSI.
- 7. CONSTRUCT USING EPOXY COATED REINFORCEMENT THROUGHOUT WHEN MEDIAN BARRIER IS INSTALLED ON A STRUCTURE.
- REINFORCED END ACHORAGES ARE REQUIRED AT THE ENDS OF CONCRETE BARRIER RUNS. CONSTRUCT THE LAST 10' USING THE END ANCHORAGE DETAIL AS SHOWN HERE. AT EXPANSION JOINTS, CONSTRUCT AN END ANCHORAGE ON BOTH SIDES OF JOINT, WITH A MAX GAP OF 2" FOR THE OPEN JOINT. THE MAX EXPANSION JOINT SPACING SHALL BE 800'. THIS ANCHORAGE IS NOT NEEDED AT CONSTRUCTION JOINTS; PROVIDE DOWEL BAR CONNECTIONS INSTEAD.
- WHEN SPLICED, LAP #5 CONTINUOUS BARS 2'-5" MINIMUM. PROVIDE 2" CLEAR COVER TO REINFORCEMENT AT ALL LOCATIONS.
- 10. THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR CONCRETE MEDIAN BARRIER SHALL BE FULL COMPENSATION FOR ALL MATERIALS (INCLUDING ALL REINFORCING STEEL), EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
- REINFORCING STIRRUP NOT REQUIRED FOR OFFSETS LESS THAN 1'-0".
- ROADBED SURFACES OFFSET (RANGES)

 $1^{1}\!\!/\!\!$ " TO 3" - NO ADDITIONAL REINFORCEMENT IS REQUIRED.

USER: cwillmerdinger

3" < 8" - USE 2, #4 BARS AT 3" ABOVE THE LOWER ROADBED SURFACE.

8" ≤ 12" - USE 2, #4 BARS AT 3" ABOVE THE LOWER ROADBED SURFACE AND 2, #4 BARS AT 8" ABOVE THE LOWER ROADBED SURFACE.

12" ≤ 36"- USE 2, #4 BARS AT 3" ABOVE THE LOWER ROADBED SURFACE AND 2, #4 BARS AT EVERY 8" INCREMENT VERTICAL SPACING ABOVE THE FIRST 2 BARS.

BID ITEM AND UNIT TO BID

CONC MEDIAN BARRIER TYPE

TL5 56 IN

A OR B DEPENDING ON LOCATION.

USE WITH CURRENT SHEET, SHEET 006.

COMMONWEALTH OF KENTUCKY TEAM KENTUCKY DEPARTMENT OF HIGHWAYS

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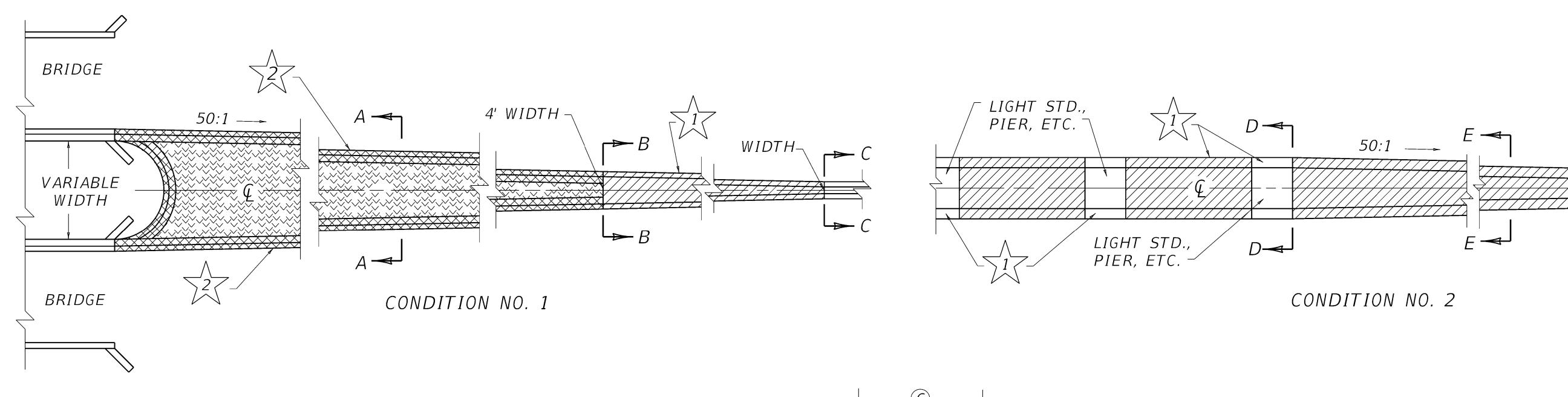
SEPIA 042: CONCRETE BARRIER WALLS

SHEET 007: CONCRETE MEDIAN BARRIER TL5 56" - NOTES

REVISION DATE: 08.20.2024 REVISION NUMBER: 1

ITEM NO. COUNTY OF

SHEET NO.



1. TRANSITION CONDITION NO. 1, 2 AND 3 ALONG WITH SYMMETRICAL AND ASYMMETRICAL BARRIER SECTIONS ARE DEPICTED ON THIS DRAWING FOR ILLUSTRATION PURPOSES ONLY AT STRUCTURES AND FIXED OBJECTS. (SEE PLANS FOR ADDITIONAL DETAILS)

2. ALL PAVEMENT, FILL MATERIAL, PIPE DRAINAGE (EXCLUSIVE OF WEEP HOLE PIPE) PLACED BETWEEN SEGMENTS OF THE BARRIER SHALL BE SHOWN SEPARATELY OR INCLUDED WITH OTHER LIKE PAY ITEMS ON THE PROJECT. WEEP HOLES ARE INCIDENTAL TO THE BID ITEM.

3. FOR DETAILS PRETAINING TO ROADWAY OR BRIDGE APPLICATIONS, SEE CURRENT BRIDGE DRAWING. THE METHOD OF MEASUREMENT FOR CONCRETE MEDIAN BARRIER FOR EACH TYPE WILL BE IN LINEAR FEET MEASURED ALONG THE TOP CENTERLINE OF THE BARRIER.

4 SEE ELSEWHERE IN PLANS FOR LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.

(5) 4" PIPE FOR WEEP HOLES SPACED ON 20' CENTERS AND STAGGERED 10' WITH EACH WALL.

6 VARIABLE WIDTH.

7. CONSTRUCT USING CONCRETE CLASS AA WITH A STRENGTH OF 4000 PSI.

BID ITEM AND UNIT TO BID

CONCRETE MEDIAN BARRIER TYPE

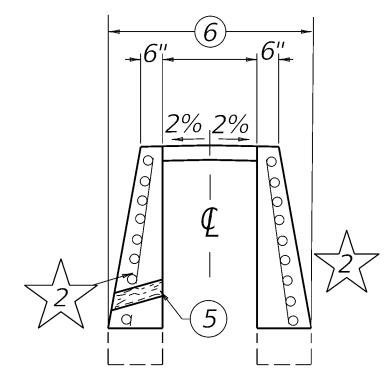


TL5 56" TALL WALL

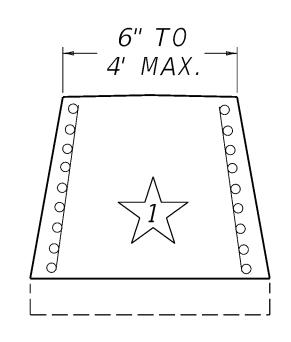


1 = SOLID SEGMENT- DENOTES BARRIER WALL WITH: a. TRANSITION FROM "W" WIDTH TO MAX. WIDTH OF 4'. b. CONSTANT WIDTH WALL GREATER THAN "W" WIDE BUT NOT GREATER THAN 4' WIDE. (EX.: WALL BETWEEN BRDG. PIERS).

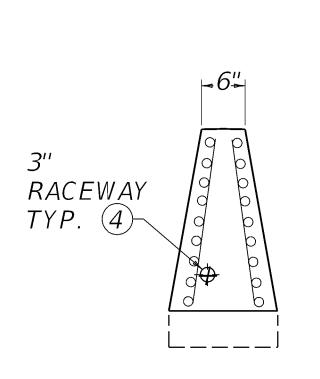
USE WITH CURRENT SHEET, SHEET 006.



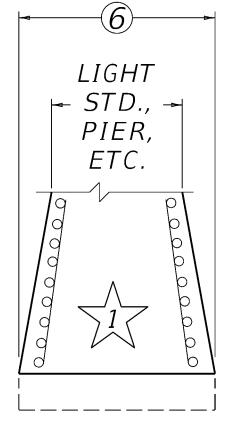
SECTION A-A



SECTION B-B

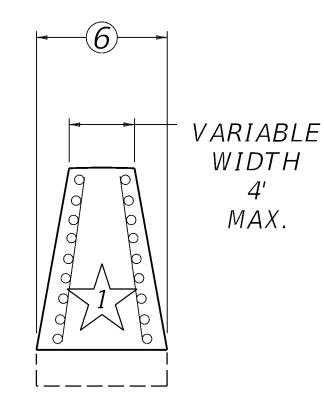


NORMAL SECTION SECTION C-C



 $WIDTH \neg$

SECTION D-D



SECTION E-E

07-23-2024



OpenRoads Designer v23.00.01.11

COMMONWEALTH OF KENTUCKY TEAM KENTUCKY DEPARTMENT OF HIGHWAYS

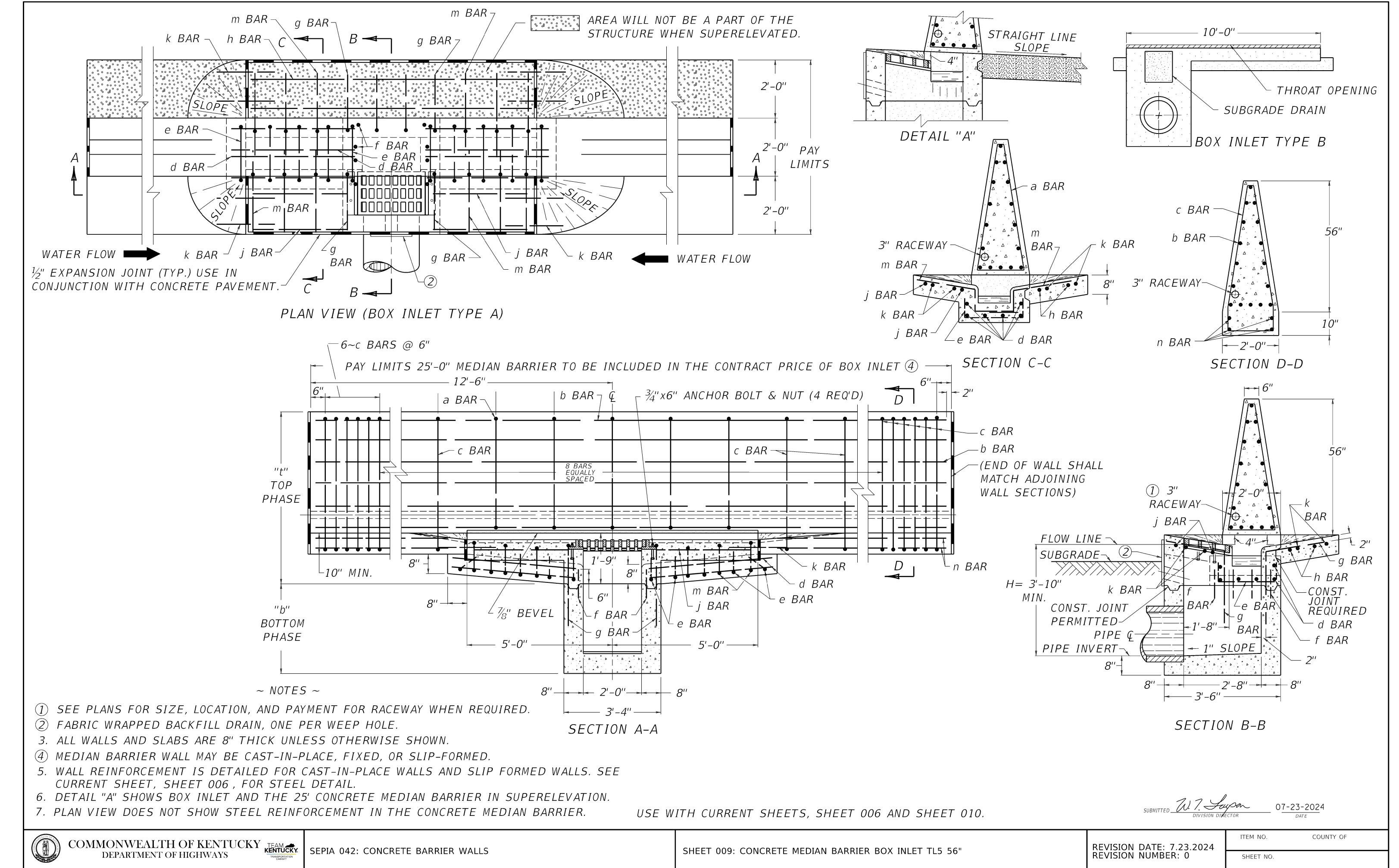
2 = SEPARATE SEGMENT

SEPIA 042: CONCRETE BARRIER WALLS

SHEET 008: CONCRETE MEDIAN BARRIER TL5 56" - HORIZONTAL TRANSITIONS

REVISION DATE: 7.23.2024 REVISION NUMBER: 0

ITEM NO. COUNTY OF SHEET NO.

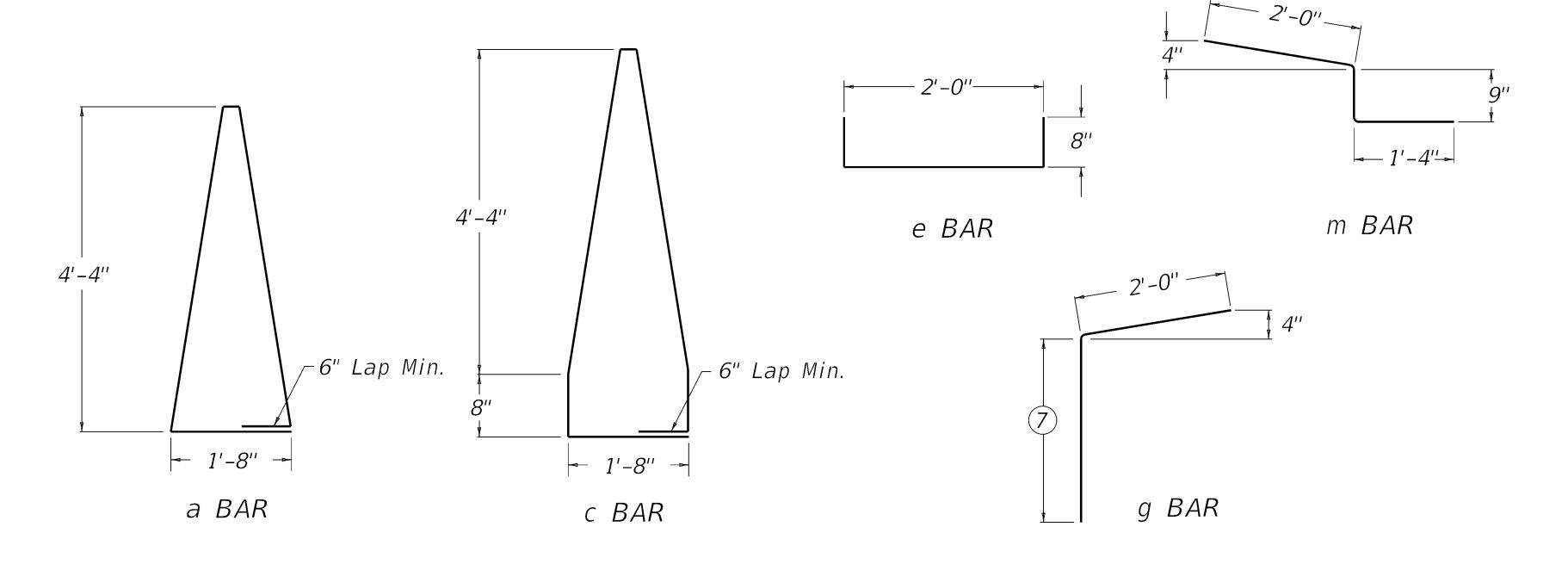


REINFORCEMENT BARS FOR BOX INLET

TEINI ONCEMENT DANS FON DOX INCE												
			-									
BAR	A1	A2	A1	A2	B1	B2	B1	В2				
	QTY.		LEN	GTH	Q7	Υ.	LEN	GTH				
е	1	0	3'-	-3"	9	9	3'-3"					
d	1	2	4'-3''		6		7'-5''					
f	8	3	1'-	1'-0''		8		-0''				
g	2	6	4'-	-6''	1	5	4'	-6''				
h	0	2	0	9'-8''	0	2	0	9'-8"				
j	4		4		3'-3"		4 3'-3"		. 4	2	7'	-0''
k	4	8	2'-0''		4	8	2'	-0''				
m	6	12	4'-1''		6	12	4'	-1''				

APPROX. QUANTITIES FOR INLET

TYPE	CLASS "A" CONC.	STEEL
	CU. YDS.	LBS.
A1	3.96	153
A2	3.96	226
B1	3.89	139
В2	3.89	212



APPROX. QTYS. FOR 25' CONC. MEDIAN BARRIER 8

Е	BAR a	Ε	BAR b	E	BAR c	E	BAR n	STEEL	CONC.
QTY.	LENGTH	QTY.	LENGTH	QTY.	LENGTH	QTY.	LENGTH	LBS.	CU. YDS.
5	11'-6''	16	24'-8''	16	13'-2''	8	7'-2''	753	6.33

~ NOTES ~

- 1. ALL STEEL REINFORCEMENT BARS SHALL BE NO. 5 BARS.
- 2. THE RATE OF INCREASE OF ADDITIONAL CLASS "A" CONCRETE PER FT. OF HEIGHT ABOVE THE MINIMUM 3'-10" SHALL BE 0.35 CU. YD.S FOR A TYPE 12 AND 0.37 CU. YDS. FOR A TYPE 14 BOX INLET.
- 3. PLACE ALL STEEL REINFORCEMENT 2" MINIMUM FROM OUTSIDE FACE OF WALL, EXCEPT AS OTHERWISE SHOWN.
- 4. SEE CURRENT SHEET, SHEET 006, FOR STEEL REINFORCEMENT IN BOTTOM OF BOX WHEN H = 8'-0'' TO 15'-0''.
- 5. USE CHAMBER DIMENSIONS TO BEST FIT AND EQUALLY SPACE REINFORCEMENT STEEL.
- 6. A SYMMETRICAL WALL IS DETAILED, AN ASYMMETRICAL WALL MAY BE REQUIRED (SEE PLANS).
- (7) 2'-6" FOR MIN. HEIGHT OF 3'-10"
- STEEL AND CONCRETE QUANTITIES ARE FOR BOTH CAST-IN-PLACE AND SLIP FORM WALL.

BID ITEM AND UNIT TO BID

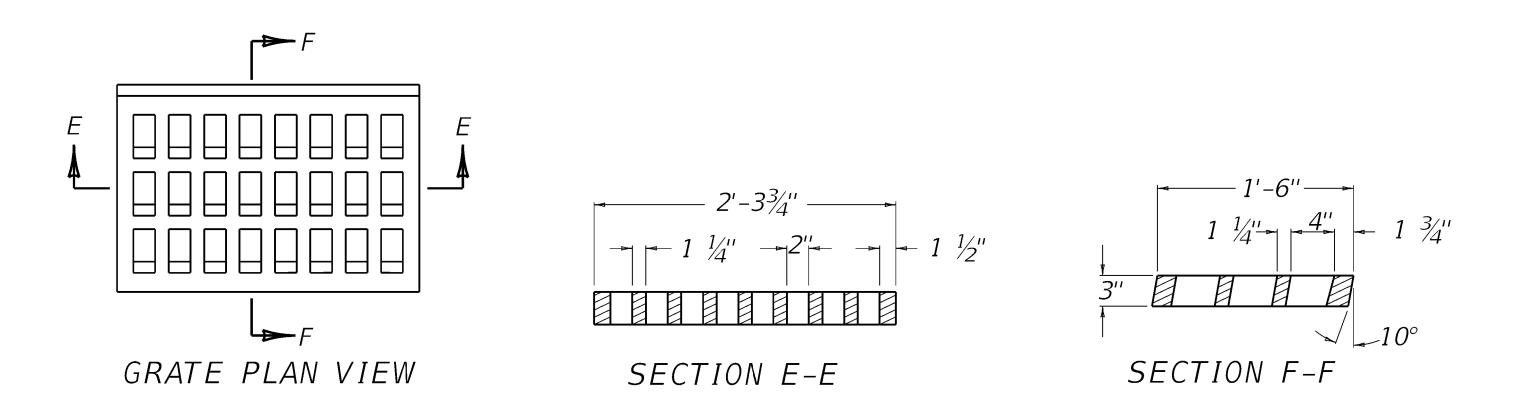
CONC. MED BARR BOX INLET TY \boxtimes \bigoplus \triangle TL5 56" TALL WALL

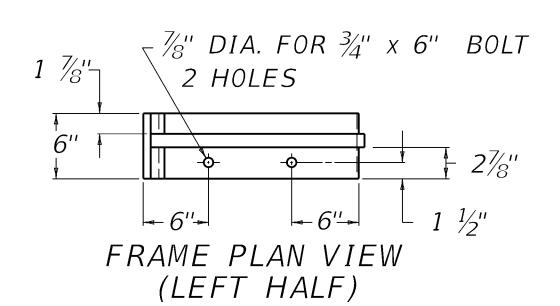
= "A" FOR SAG VERTICALS \bigoplus = 1 FOR OPENING ON ONE SIDE OF BOX INLET "B" FOR STRAIGHT GRADE 2 FOR OPENING ON BOTH SIDES OF BOX INLE 2 FOR OPENING ON BOTH SIDES OF BOX INLET

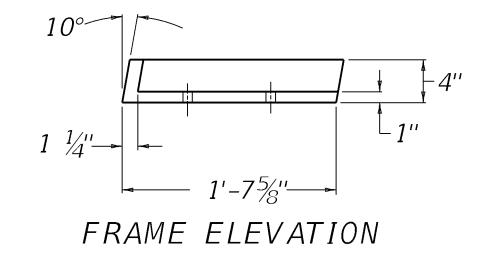
 \triangle (b) = BOTTOM PHASE $(\dagger) = TOP PHASE$

~NO (b) OR (†) SUFFIX PRESENT INDICATES COMPLETE INLET~

USE WITH CURRENT SHEETS, SHEET 006 AND SHEET 009.







OpenRoads Designer v23.00.01.11

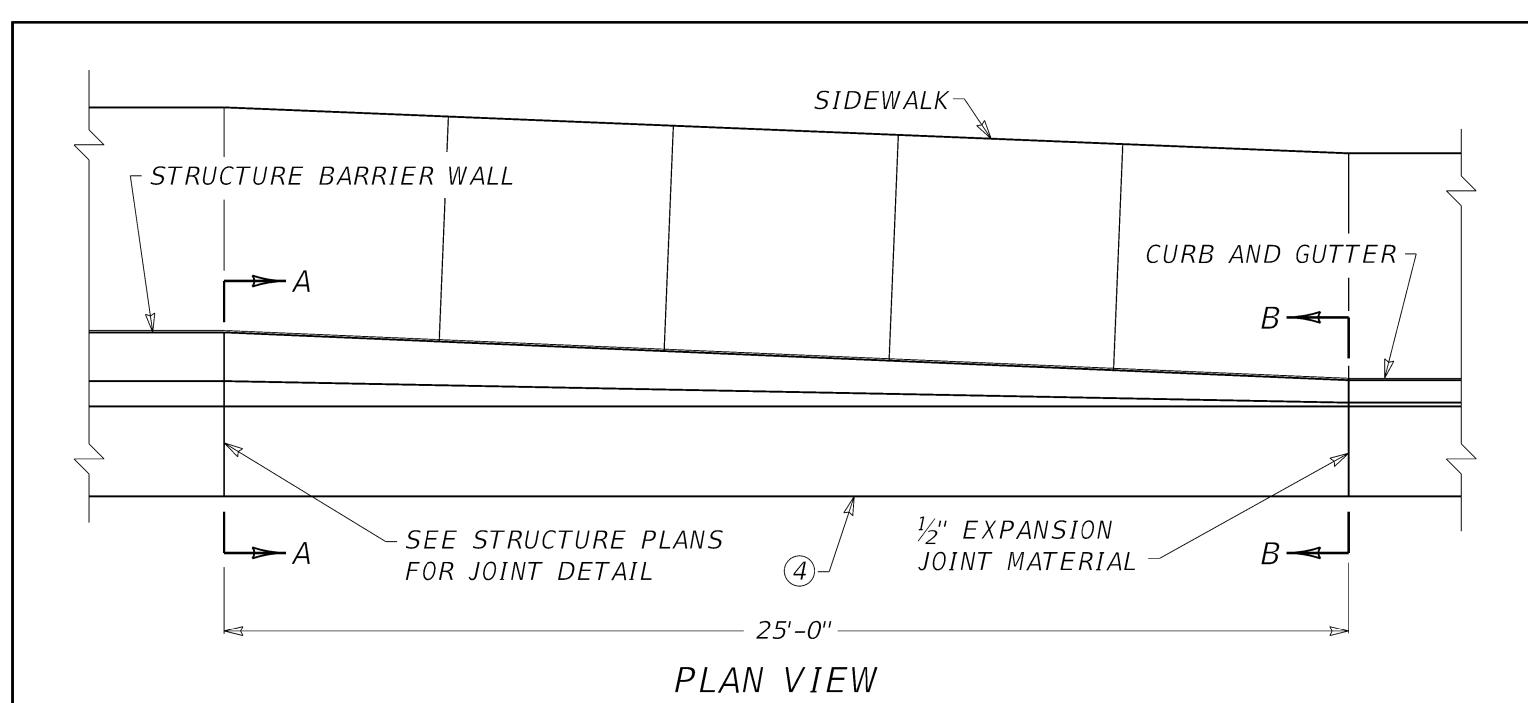
COMMONWEALTH OF KENTUCKY TEAM KENTUCKY DEPARTMENT OF HIGHWAYS

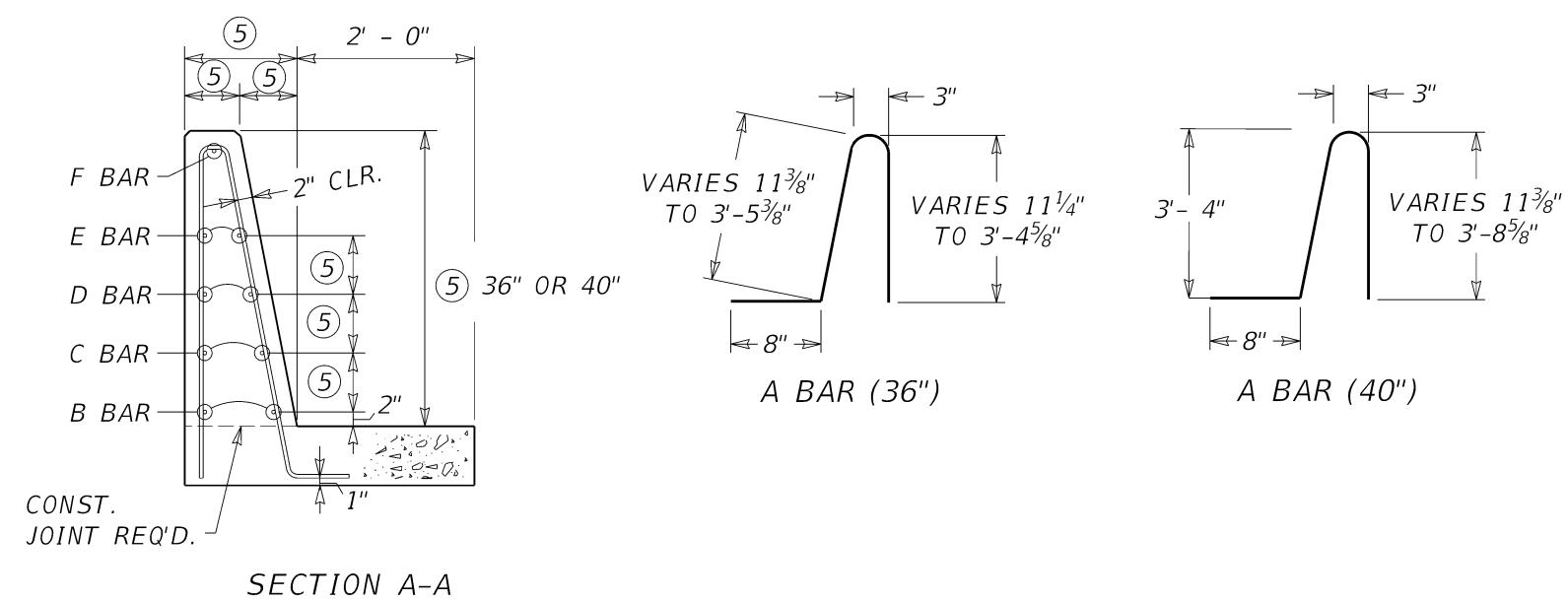
SEPIA 042: CONCRETE BARRIER WALLS

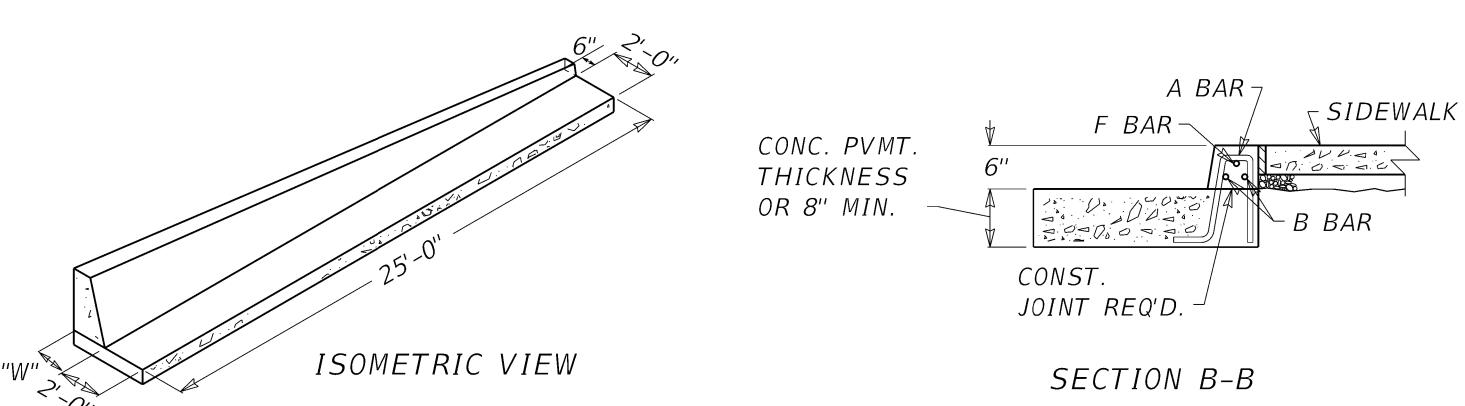
SHEET 010: CONCRETE MEDIAN BARRIER BOX INLET TL5 56 IN - DETAILS

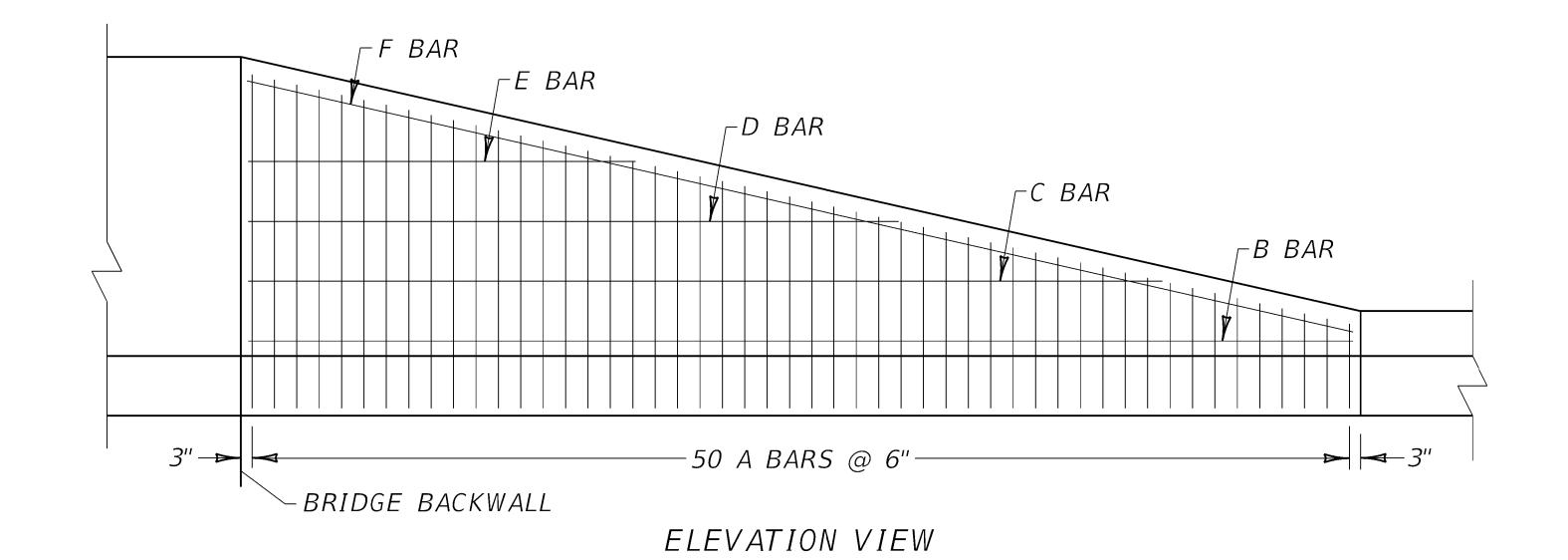
REVISION DATE: 7.23.2024 REVISION NUMBER: 0

ITEM NO. COUNTY OF SHEET NO.









1. THE CONTRACT UNIT PRICE EACH FOR THE CURB TO BARRIER WALL TRANSITION SHALL INCLUDE CONCRETE, FORMS, STEEL REINFORCEMENT, EXPANSION JOINT MATERIAL, AND ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION.

~ NOTES ~

- 2. FOR ILLUSTRATION PURPOSES THE DETAILS DEPICT THE CURB TO BARRIER WALL TRANSITION CONNECTING TO A STANDARD CURB, HOWEVER THE CURB TO BARRIER WALL TRANSITION MAY BE CONSTRUCTED TO MATCH ANY ADJOINING CURB.
- 3. THE AMOUNT OF CLASS "A" CONCRETE REQUIRED FOR A TRANSITION SECTION WITH A $7\frac{1}{2}$ " WIDE TOP IS APPROXIMATELY 3.2 CU. YDS. (36") & 3.4 CU. YDS. (40")
- 4 WHEN THE CURB TO BARRIER WALL TRANSITION ABUTS RIGID PAVEMENT A LONGITUDINAL SAWED CONSTRUCTION JOINT SHALL BE INSTALLED IN ACCORDANCE WITH CUR. STD. DWG. RPS-010.
- 5 SEE STRUCTURE PLANS FOR DIMENSIONS. REFER TO BHS-009 AND BHS-010 .
- 6. CURB TO BARRIER WALL TRANSITION NOT FOR USE ON APPROACH ENDS ON HIGH SPEED N.H.S.

BID ITEM AND UNIT TO BID CURB TO BARRIER WALL TRANS

EACH

USE WITH CUR. STD. DWGS. RPS-010, BHS-009, BHS-010

BILL OF REINFORCEMENT (40")								
BAR	QTY.	SIZE	LENGTH	TOTAL LBS. OF STEEL				
Α	50	4	Varies					
В	2	4	24'-8''					
С	2	4	20'-5''	200				
D	2	4	14'-6''	290				
Ε	2	4	8'-7''					
F	1	4	24'-10''					

BILL OF REINFORCEMENT (36")								
BAR	QTY.	SIZE	LENGTH	TOTAL LBS. OF STEEL				
Α	50	4	Varies					
В	2	4	24'-8''					
С	2	4	19'-10''	272				
D	2	4	13'-2''	273				
Ε	2	4	6'-5''					
F	1	4	24'-9''					

SUBMITTED W. 7. Super 07-23-2024

DIVISION DIRECTOR DATE

OpenRoads Designer v23.00.01.11

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TEAMOR TRANSPORTATION
CABINET

SEPIA 042: CONCRETE BARRIER WALLS

SHEET 011: CURB TO SINGLE SLOPE BARRIER TRANSITION

REVISION DATE: 7.23.2024 REVISION NUMBER: 0 SHEET NO.

APPROXIMATE DEL	INEATOR SPACING			
TANGENT-RAMPS	100'			
TANGENT	200-530'			
CURVE	50'			

SPACING SHOULD BE ADJUSTED IN CURVES SO THAT SEVERAL DELINEATORS ARE ALWAYS SIMULTANEOUSLY VISIBLE TO THE ROAD USER.

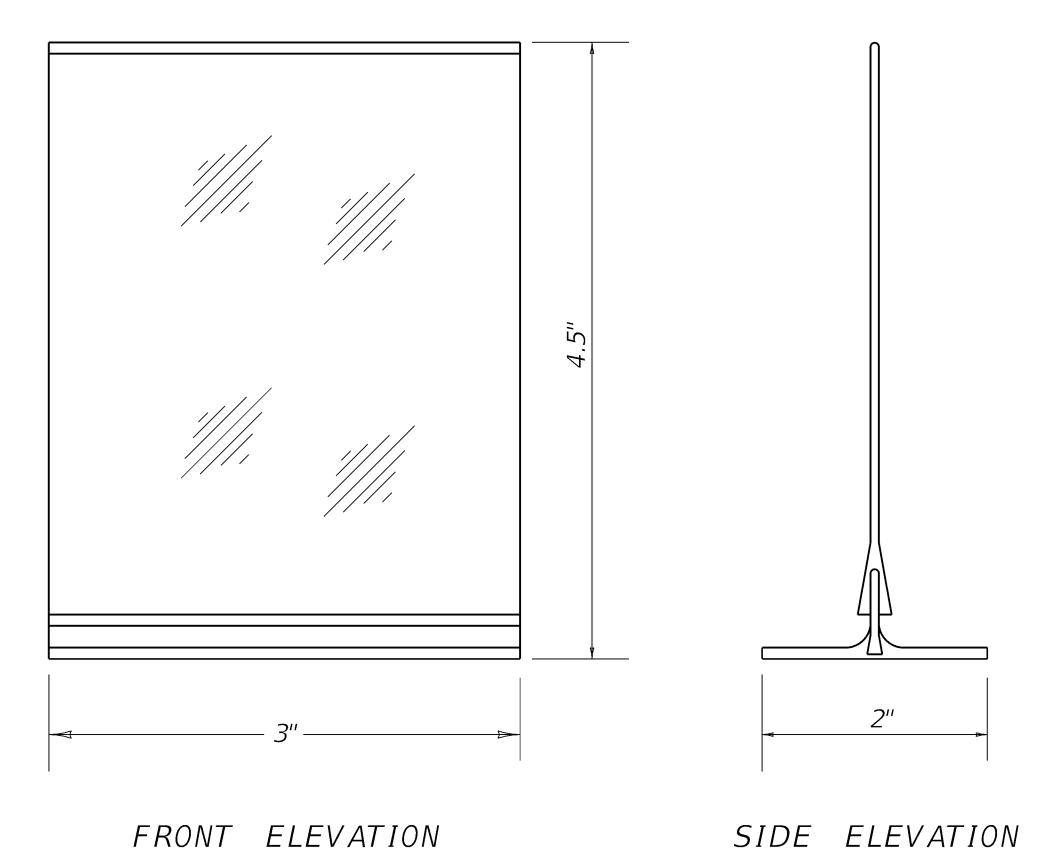
CURVE SPACING IS A FUNCTION OF CURVE RADIUS AND IS FOUND IN TABLE 2F-1 OF THE MUTCD.

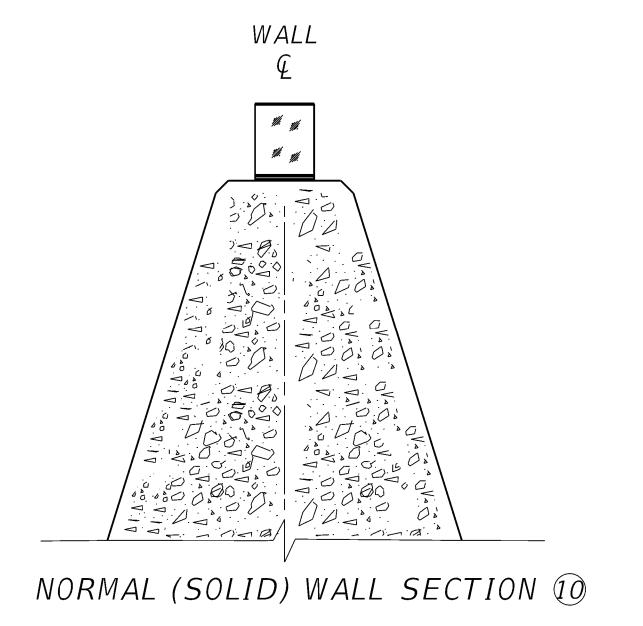
~ NOTES ~

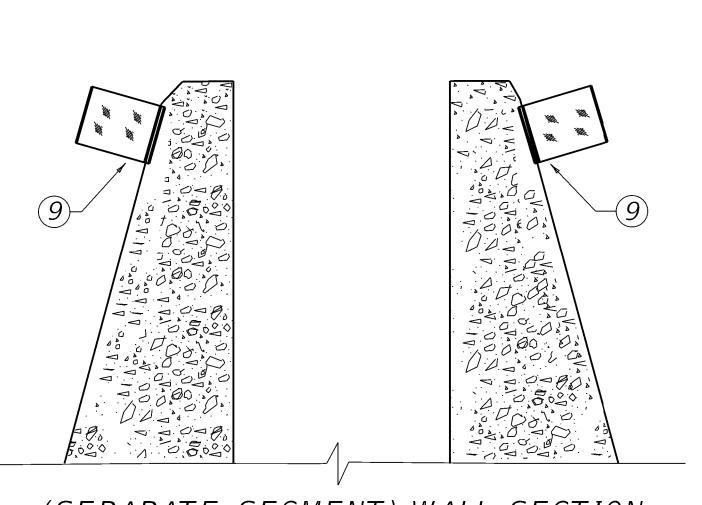
- 1. BARRIER WALL DELINEATORS SHALL BE REQUIRED ON ALL BARRIER WALLS.
- 2. DELINEATORS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR ONE COMPLETE INSTALLATION.
- 3. THE COLOR OF DELINEATORS SHALL MATCH THE COLOR OF THE EDGELINE THAT THEY SUPPLEMENT. IN GENERAL, DELINEATORS ON BARRIER WALL ALONG THE LEFT SIDE OF DRIVING LANES SHALL BE YELLOW, AND DELINEATORS ON BARRIER WALL ALONG THE RIGHT SIDE OF DRIVING LANES SHALL BE WHITE. DELINEATORS IN BOTH DIRECTIONS ON A TWO-LANE, TWO-WAY ROADWAY SHALL BE BI-DIRECTIONAL WHITE.
- 4. TYPES OF DELINEATORS PERMITTED SHALL BE FROM THE LIST OF APPROVED MATERIALS. THE DELINEATOR SHAPE AND DIMENSIONS ARE FOR ILLUSTRATION PURPOSES ONLY. KYTC STANDARD SPEC 508.02.10, DELINEATORS FOR BARRIERS, STATES TO USE STIMSONITE MARKER 962, AKT CORPORATION MARKER NO. 181, OR A DEPARTMENT APPROVED EQUAL.
- 5 THE DELINEATOR UNIT SHALL HAVE THE REFLECTIVE SURFACE INSTALLED FACING TRAFFIC.
- 6. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMENDATION.
- 7. DELINEATORS SHALL BE ATTACHED TO CONCRETE MEDIAN BARRIER WITH AN APPROVED ADHESIVE.
- 8. DELINEATOR SHEETING SHALL BE TYPE IX, YELLOW OR WHITE.
- (9) DELINEATORS SHOULD BE MOUNTED AT A HEIGHT OF APPROXIMATELY 4' ABOVE PAVEMENT. WHEN CONCRETE BARRIERS EXTEND ACROSS BRIDGE STRUCTURES IN LIEU OF STEEL BEAM GUARDRAIL, DELINEATORS SHALL BE INSTALLED AT THE SAME VERTICAL ALIGNMENT AS ON THE GUARDRAIL.
- (10) FOR BARRIER WALLS 50" OR LESS IN HEIGHT, DELINEATORS MAY BE INSTALLED ON TOP OF THE BARRIER WALL. FOR MEDIAN BARRIER WALLS 50" OR LESS IN HEIGHT THAT SEPARATE TWO-WAY TRAFFIC, BI-DIRECTIONAL YELLOW DELINEATORS MAY BE INSTALLED ON THE TOP OF THE BARRIER WALL IN LIEU OF SIDE-MOUNTED MONO-DIRECTIONAL YELLOW DELINEATORS.
- 11. IF BARRIER WALL IS PRESENT AT OFF RAMPS, THE BACKSIDE OF THE DELINEATOR SHOULD BE RED RETROREFLECTIVE SHEETING. RED SHEETING ON THE BACK SIDE CAN BE USED IN ANY SITUATION TO DISCOURAGE WRONG WAY DRIVING.

BID ITEM AND UNIT TO BID

DELINEATOR FOR BARRIER WALL - M/W EACH DELINEATOR FOR BARRIER WALL - M/Y EACH EACH DELINEATOR FOR BARRIER WALL - B/Y EACH DELINEATOR FOR BARRIER WALL - B/W







(SEPARATE SEGMENT) WALL SECTION

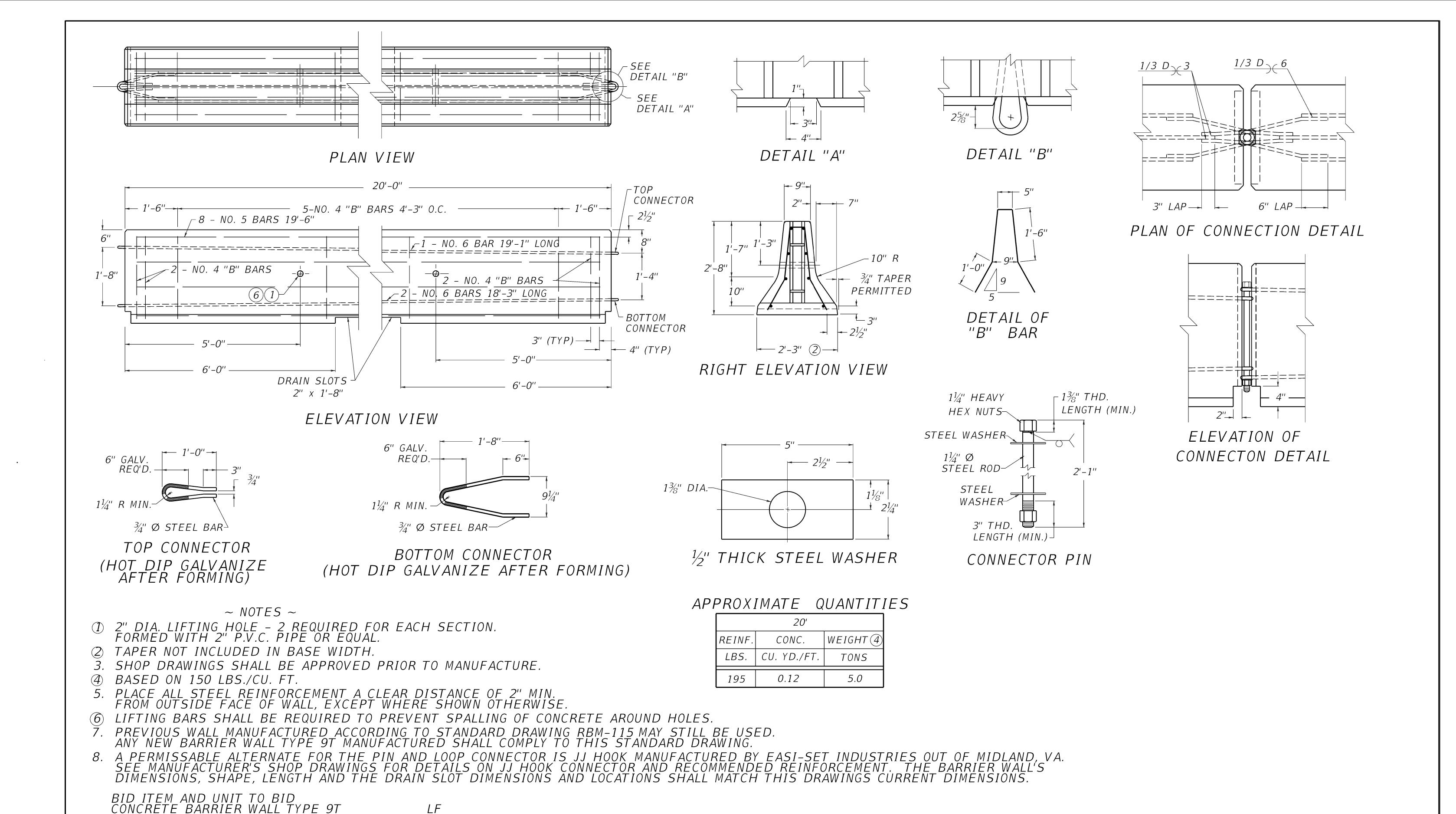
COMMONWEALTH OF KENTUCKY TEAM KENTUCKY DEPARTMENT OF HIGHWAYS

SEPIA 042: CONCRETE BARRIER WALLS

SHEET 012: DELINEATORS FOR CONCRETE BARRIERS

REVISION NUMBER: 0

ITEM NO. COUNTY OF



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

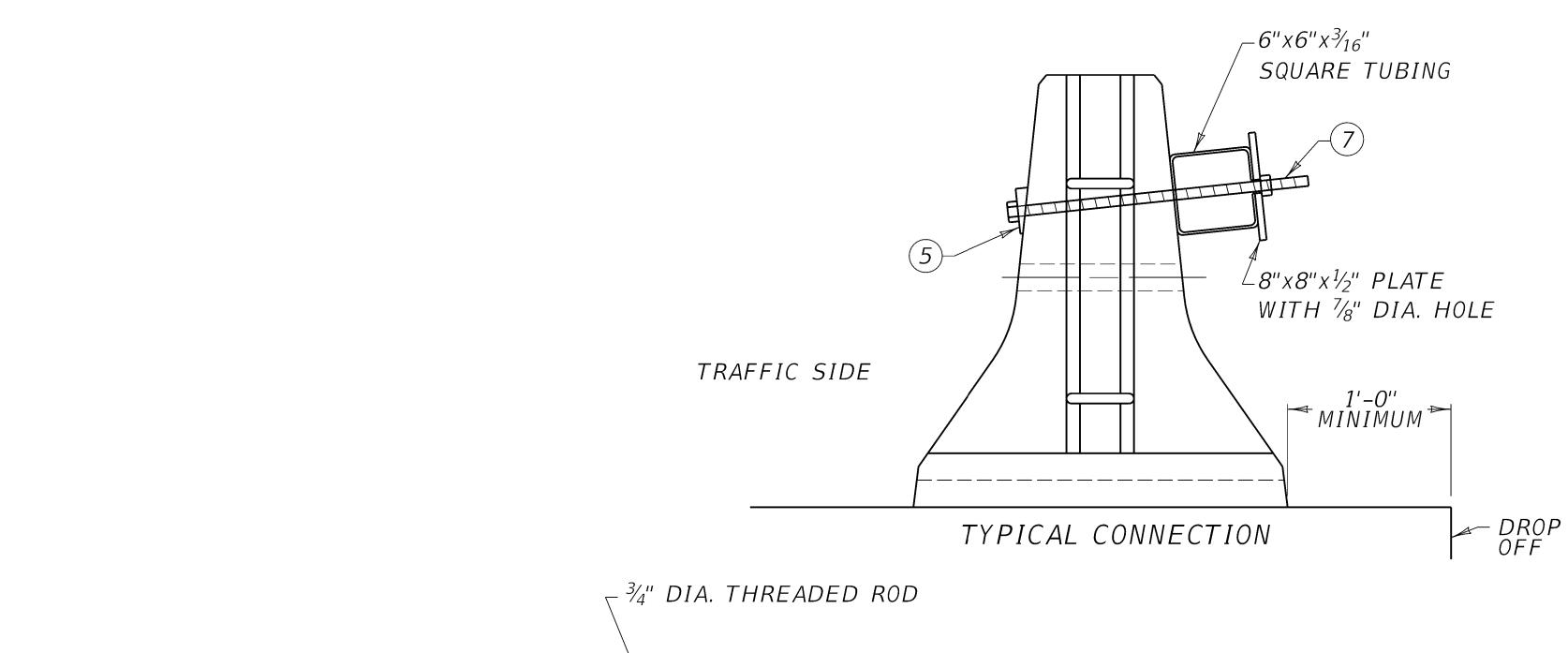
TRANSPORTATION
CABINET
TRANSPORTATION
CABI

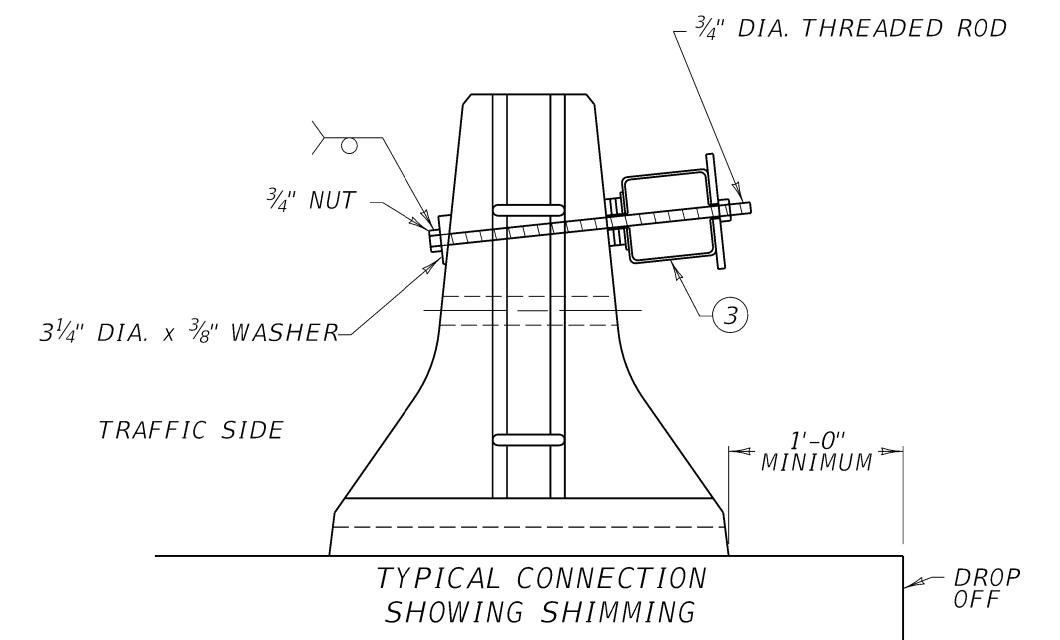
USE WITH CUR. STD. DWG. RBM-120

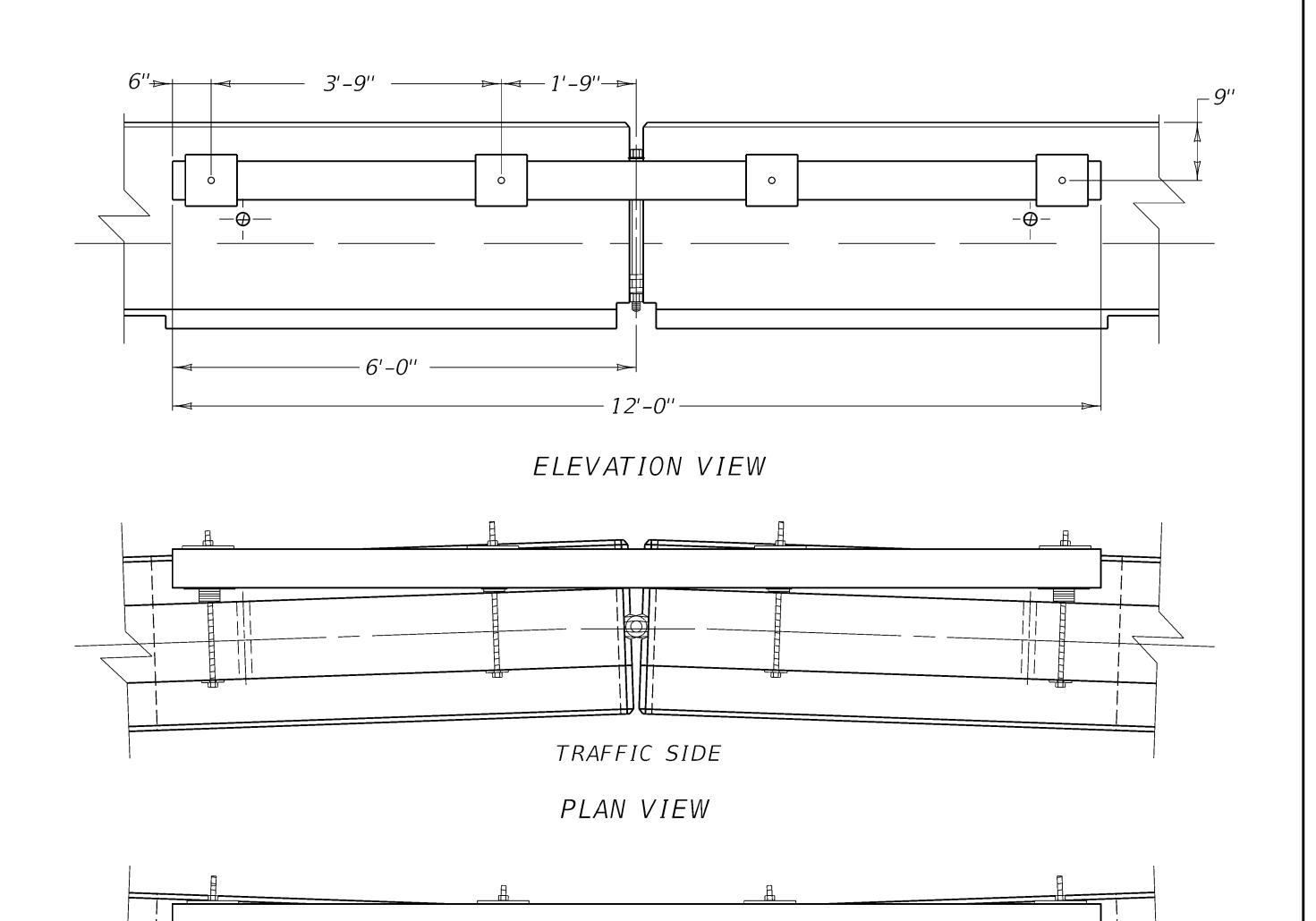
SEPIA 042: CONCRETE BARRIER WALLS

SHEET 013: CONCRETE BARRIER WALL TYPE 9T (TEMPORARY) [RBM-115-10]

REVISION DATE: 7.23.2024 REVISION NUMBER: 0 ITEM NO. COUNTY OF
SHEET NO.







TRAFFIC SIDE

PLAN VIEW



- 1. STIFFENED BARRIER WALL IS REQUIRED IN WORK ZONES WHEN THE EDGE OF THE WALL FURTHEST FROM TRAFFIC IS LOCATED WITHIN 3'-0" OF THE BRIDGE DECK EDGE PARALLEL TO THE DIRECTION OF TRAFFIC. MAY ALSO BE USED IN OTHER TEMPORARY SITUATIONS WHERE SUBSTANTIAL DROP OFFS EXIST. MAINTAIN 1'-0" MINIMUM FROM EDGE OF BARRIER TO DROP OFF.
- 2. STIFFENER SHALL BE INSTALLED WHEN BARRIER IS SET AND BEFORE EXPOSED TO TRAFFIC.
- (3) SQUARE TUBING SHALL BE 50 GRADE STRUCTURAL STEEL.
- 4. WHEN BARRIER WALL SECTIONS ARE PLACED ON A RADIUS, THE AREA BETWEEN THE SQUARE TUBING AND BARRIER WALL SHALL SHALL BE SHIMMED AS SHOWN ABOVE. SHIM SHALL CONSIST OF ONE SQUARE PLATE (4" NEAR END OF BARRIER WALL SECTION, 8" NEAR END OF TUBING SECTIONS) 316 " THICK WITH AS MANY 3^14 " DIA. x 38 " THICK WASHERS AS NEEDED.
- (5) BEVEL WASHER TO BE PARALLEL WITH PLANE OF BARRIER AND BOLT HEAD. (TYP.)

USER: corinne.schurman

- 6. ALL MATERIALS, LABOR INVOLVED WITH THIS PROCESS TO BE INCIDENTAL TO LINEAR FEET OF WALL.
- (7) ROD PERPENDICULAR TO BARRIER WALL SURFACE. (TYP.)

USE WITH CUR. STD. DWG. RBM-115

SUBMITTED W. 7. Jupan 07-23-2024

DIVISION DIRECTOR DATE



COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

SEPIA 042: CONCRETE BARRIER WALLS

SHEET 014: BOX BEAM STIFFENING PF TEMPORARY CONCRETE BARRIER [RBM-120-02]

LATEST DATE: 7.23.2024 REVISION NUMBER: 0 ITEM NO. COUNTY OF
SHEET NO.