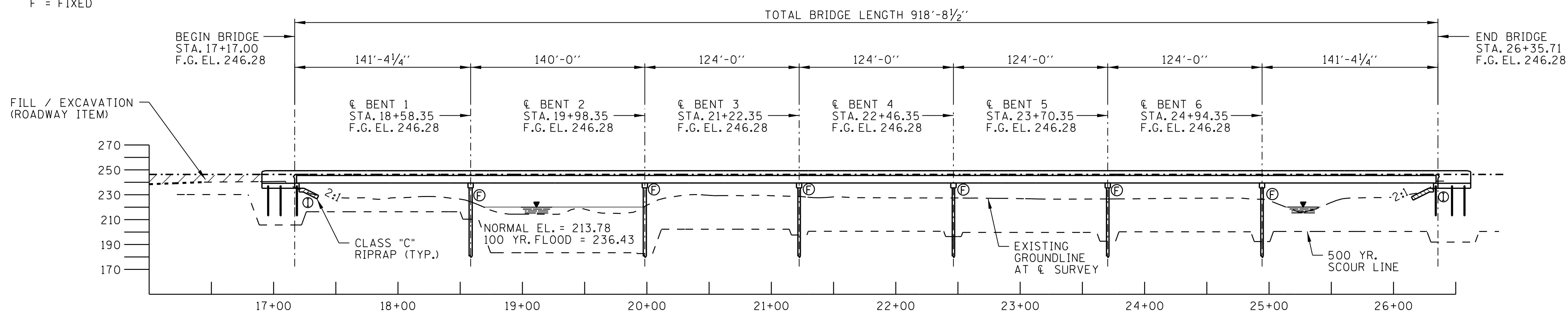
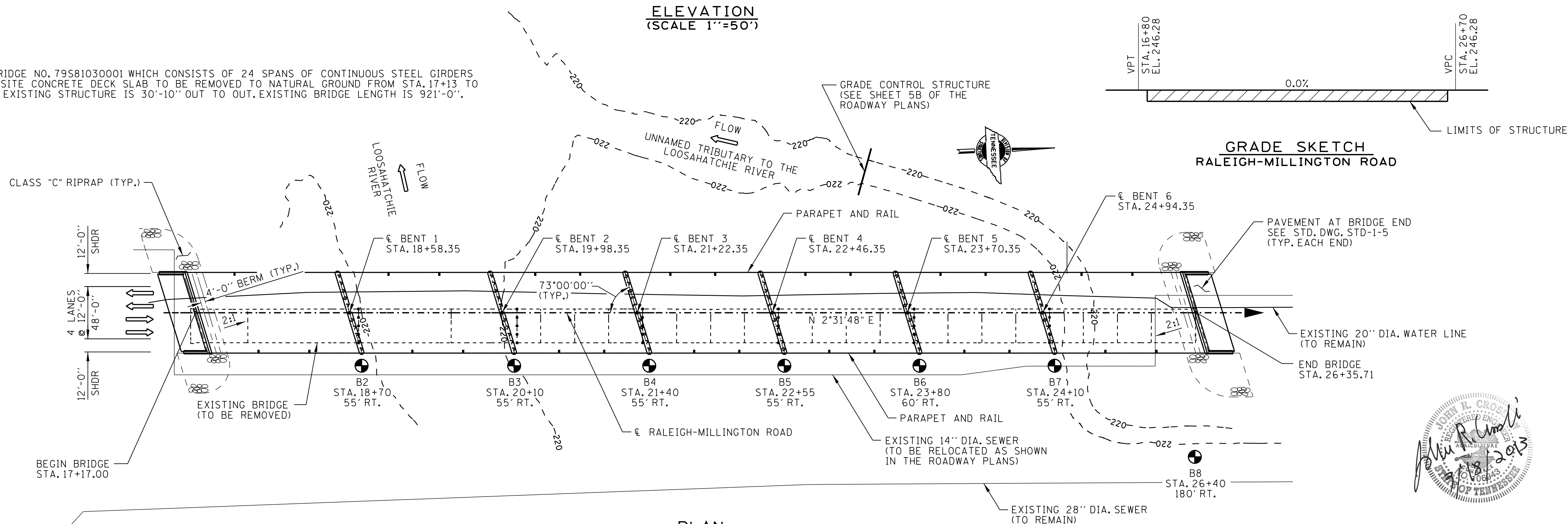


FILL / EXCAVATION
(ROADWAY ITEM)

NOTE:
EXISTING BRIDGE NO. 79S81030001 WHICH CONSISTS OF 24 SPANS OF CONTINUOUS STEEL GIRDERS WITH COMPOSITE CONCRETE DECK SLAB TO BE REMOVED TO NATURAL GROUND FROM STA. 17+13 TO STA. 26+34. EXISTING STRUCTURE IS 30'-10" OUT TO OUT. EXISTING BRIDGE LENGTH IS 921'-0".



NOTE:
FOR LIMITS OF CLASS "C" RIPRAP, SEE
SHEET 5B OF THE ROADWAY PLANS.

HEADWATER CONDITION	
DRAINAGE AREA	554.03 SQ. MILES
FEMA PUBLISHED FLOOD (100 YR.)	54,300 CFS
DESIGN DISCHARGE (100 YR.)	55,500 CFS
AREA PROVIDED BELOW EL. 236.43	9994.67 SQ. FT.
100 YR. VELOCITY (MAX.)	8 FT./SEC.
ROADWAY OVERTOPPING EL.	239.17
MAXIMUM SPREAD ON DECK	12 FT.
BACKWATER CONDITION	
100 YR. BACKWATER EL.	236.43

▪ DENOTES REQUIRED PARAPET DRAIN PER STD. DWG. STD-1-2SS.

DRAIN LOCATION TABLE							
SPAN NO.	1	2	3	4	5	6	7
WEST SIDE OF BRIDGE	17+52.78 17+99.55	18+94.02 19+40.68	20+28.68 20+70.01	21+52.68 21+94.02	22+76.68 23+18.02	24+00.68 24+42.01	25+30.13 25+76.90
EAST SIDE OF BRIDGE	17+74.78 18+21.55	19+16.02 19+62.68	20+50.68 20+92.01	21+74.68 22+16.02	22+98.68 23+40.02	24+22.68 24+64.01	25+52.13 25+98.90

DESIGNED BY JOHN CROSSLIN DATE 5/2012
DRAWN BY MIKE BUCKNER DATE 5/2012
SUPERVISED BY ERIC NELSON DATE 5/2012
CHECKED BY BEN SHEALY DATE 5/2012

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

[illegible]

INDEX OF DRAWINGS		
DESCRIPTION	DWG. NO.	LAST REV. DATE
LAYOUT OF BRIDGE	U-46-98	-----
INDEX OF DRAWINGS	U-46-99	-----
GENERAL NOTES	U-46-100	-----
ESTIMATED QUANTITIES	U-46-101	-----
FOUNDATION DATA	U-46-102	-----
PHASING SEQUENCE I	U-46-103	-----
PHASING SEQUENCE II	U-46-104	-----
SUPERSTRUCTURE - TYPICAL SECTION I	U-46-105	-----
SUPERSTRUCTURE - TYPICAL SECTION II	U-46-106	-----
SUPERSTRUCTURE - FRAMING PLAN I	U-46-107	-----
SUPERSTRUCTURE - FRAMING PLAN II	U-46-108	-----
SUPERSTRUCTURE - SLAB PLAN I	U-46-109	-----
SUPERSTRUCTURE - SLAB PLAN II	U-46-110	-----
SUPERSTRUCTURE - MAIN REINFORCING PLAN I	U-46-111	-----
SUPERSTRUCTURE - MAIN REINFORCING PLAN II	U-46-112	-----
FINISH GRADE ELEVATIONS	U-46-113	-----
PRESTRESSED BEAM DETAILS - SPANS 3, 4, 5 & 6	U-46-114	-----
PRESTRESSED BEAM DETAILS - SPANS 1, 2 & 7	U-46-115	-----
ABUTMENT 1 - LAYOUT	U-46-116	-----
ABUTMENT 2 - LAYOUT	U-46-117	-----
ABUTMENT DETAILS I	U-46-118	-----
ABUTMENT DETAILS II	U-46-119	-----
ABUTMENT DETAILS III	U-46-120	-----
BENTS 1-6 - LAYOUT	U-46-121	-----
BENTS 1-6 - DETAILS	U-46-122	-----
WROUGHT IRON RAILING DETAILS	U-46-123	-----
FINAL FOUNDATION DATA I	U-46-124	-----
FINAL FOUNDATION DATA II	U-46-125	-----
BILL OF STEEL I	U-46-126	-----
BILL OF STEEL II	U-46-127	-----
BILL OF STEEL III	U-46-128	-----

LIST OF STANDARD DRAWINGS		
DESCRIPTION	DWG. NO.	LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET	STD-1-1SS	06/01/2011
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS	STD-1-2SS	2006
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06/01/2011
BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL	STD-2-1	11/01/2010
STANDARD PILE DETAILS	STD-5-2	04/08/2005
STANDARD SEISMIC DETAILS	STD-6-1	11/01/2010
STANDARD SEISMIC DETAILS	STD-6-2	11/07/1994
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10/07/2008
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	STD-10-1	04/08/2005
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR BULB-TEE BEAMS	STD-14-1	10/15/2008

▲ DENOTES BRIDGE RAIL TO BE MODIFIED AS PER DRAWING U-46-123.

2/5/2013 12:03:16 PM
G:\60220947 Raleigh-Millington Bridge\Cad\index.dgn

DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012



2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX OF DRAWINGS
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

2/5/2013 3:09:14 PM
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DESIGNED BY:JOHN CROSSLIN

DRAWN BY:MIKE BUCKNER

SUPERVISED BY:ERIC NELSON

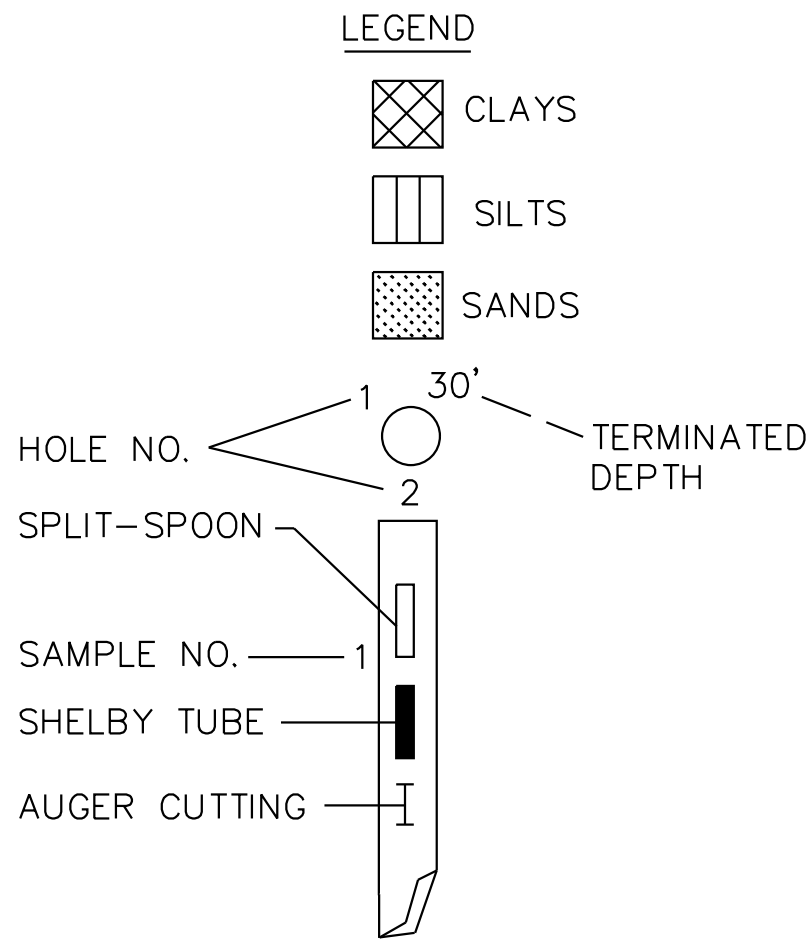
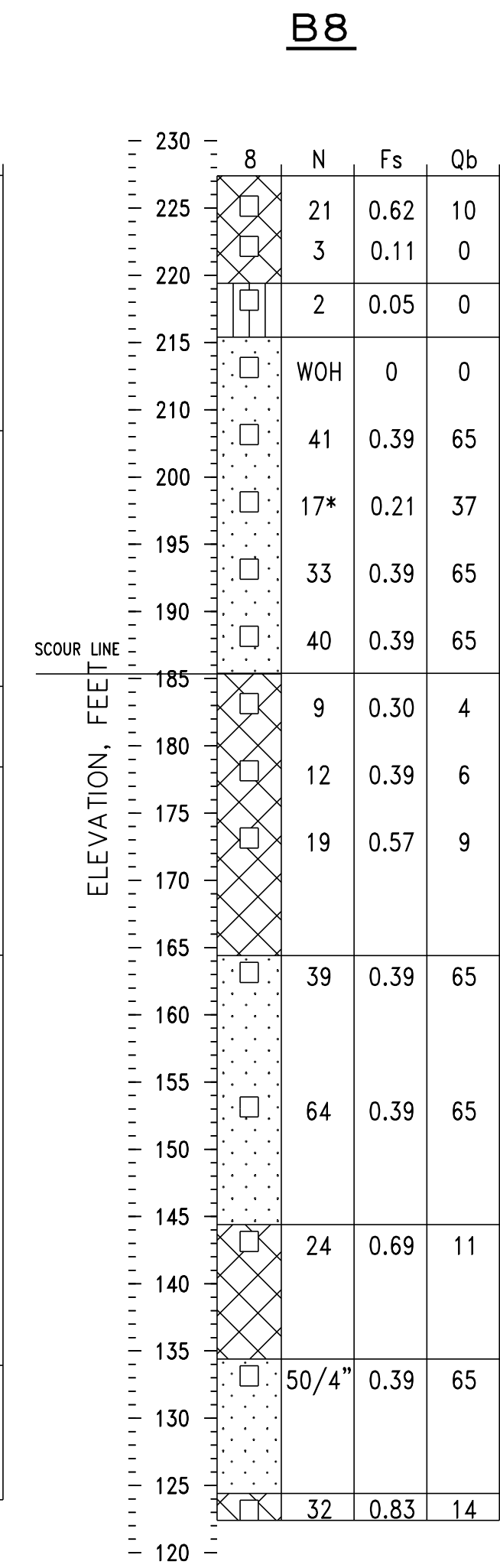
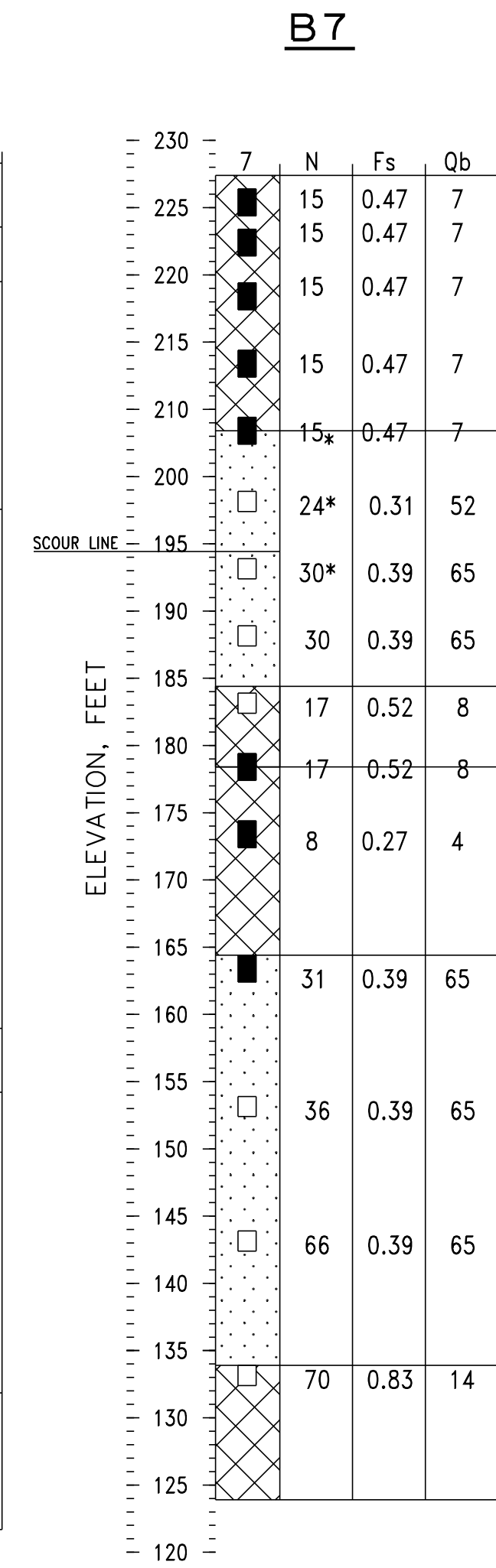
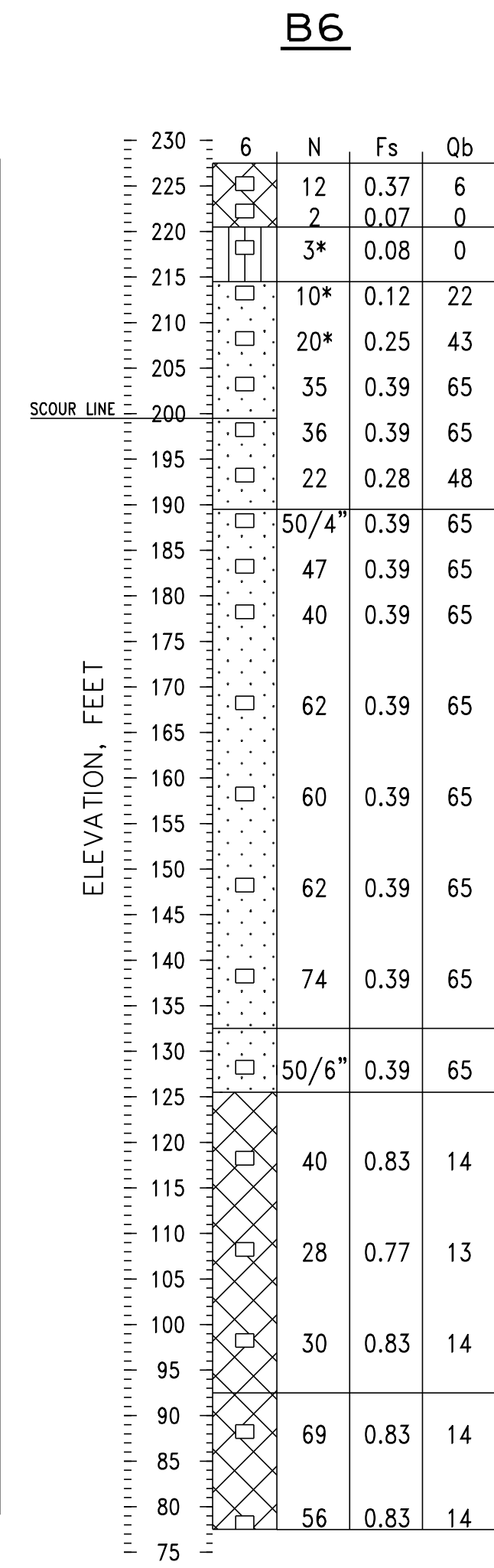
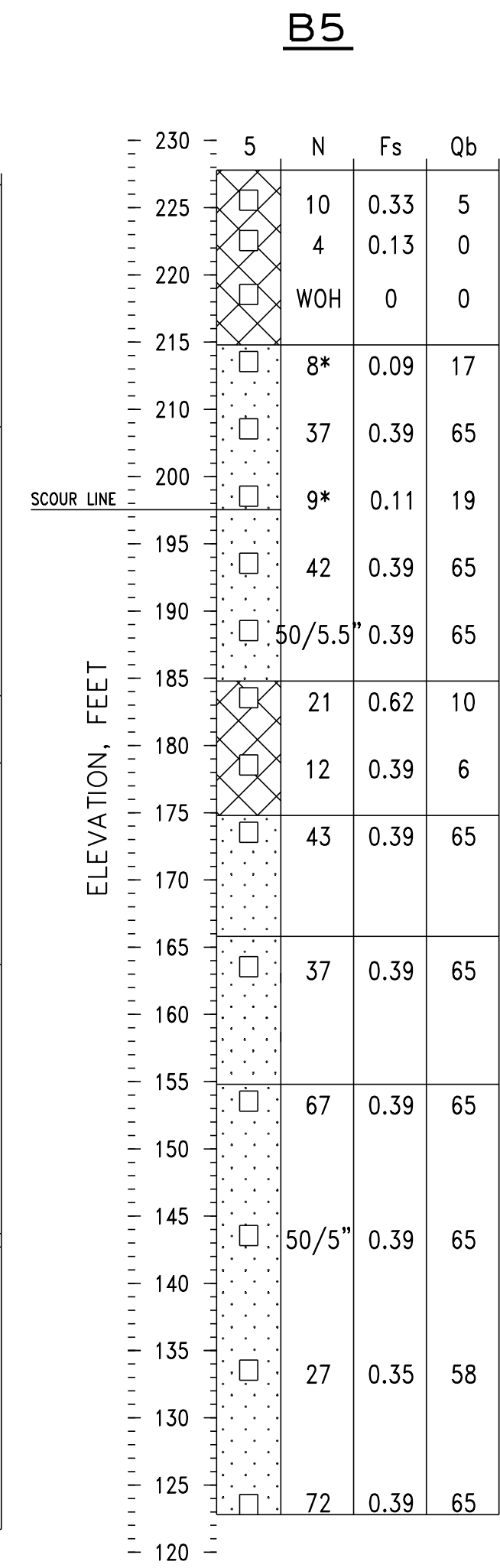
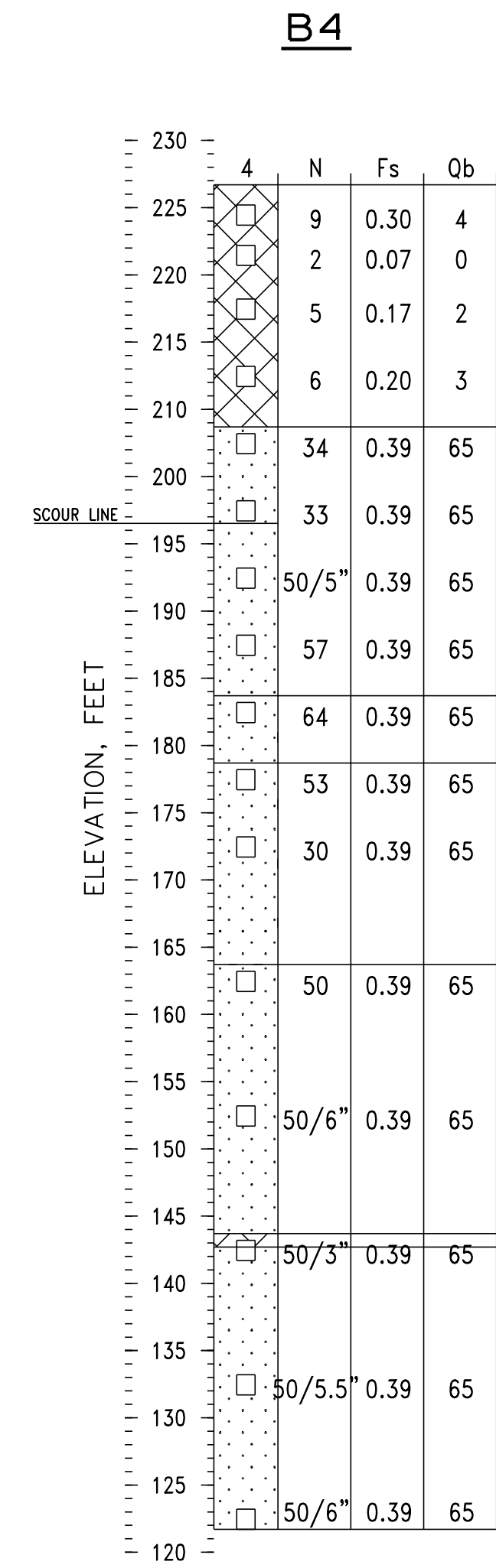
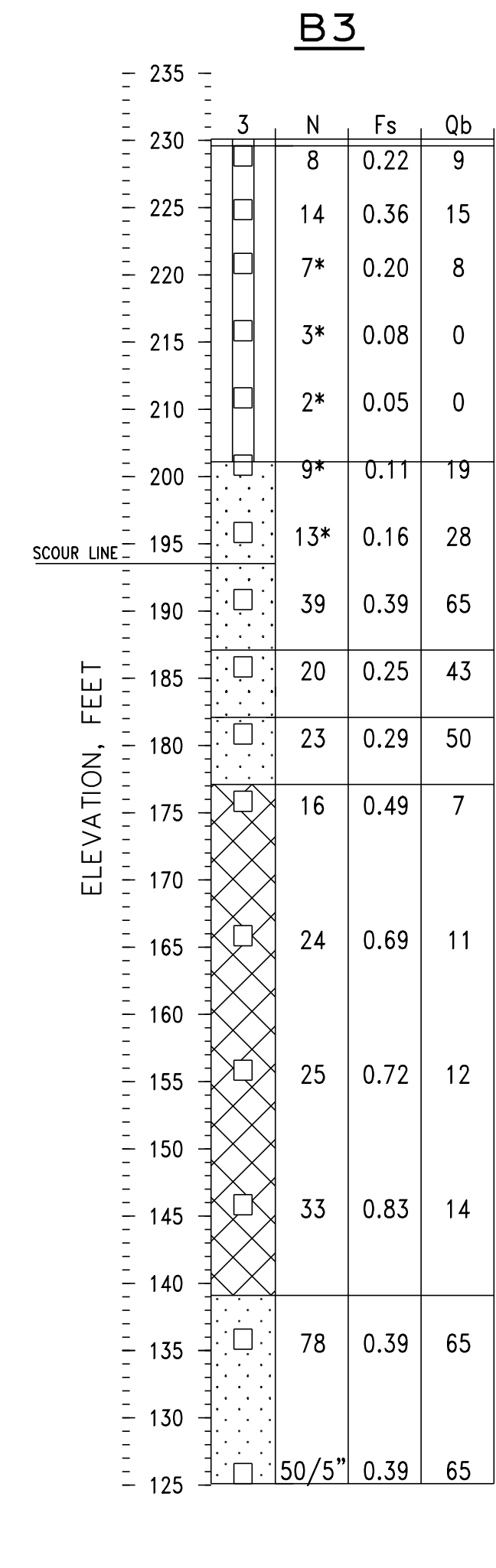
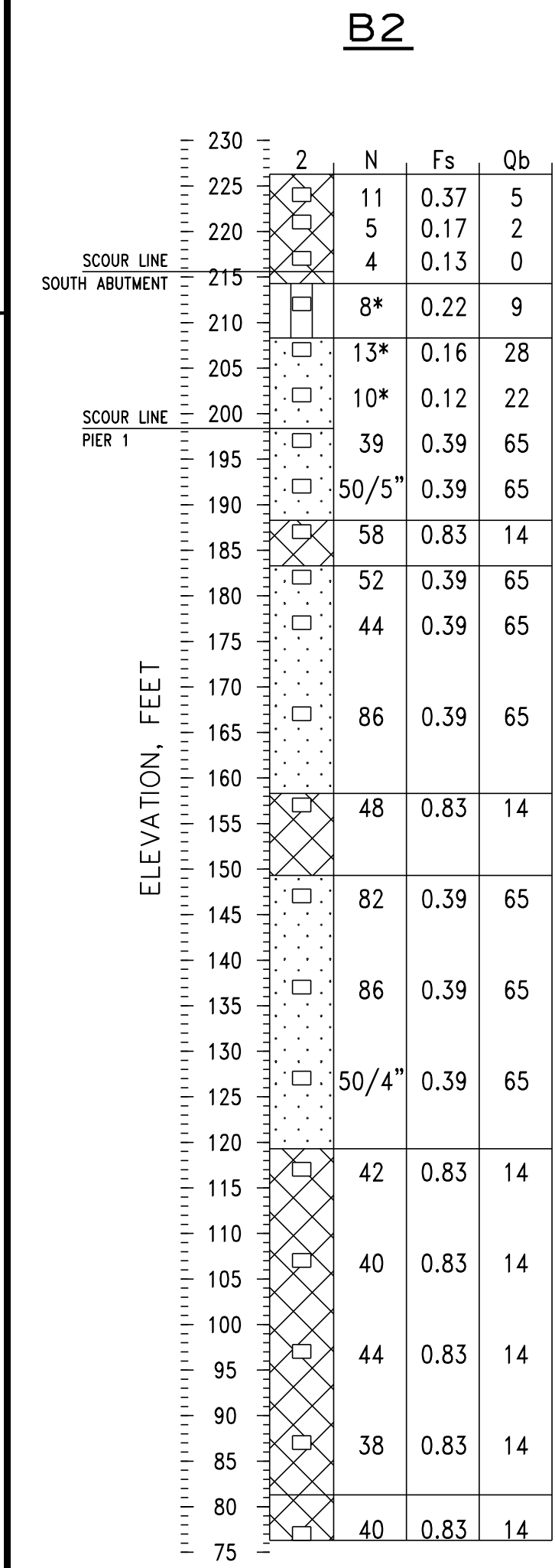
CHECKED BY:BEN SHEALY

DATE:5/2012

DATE:5/2012

DATE:5/2012

DATE:5/2012



ABBREVIATIONS

* = SAMPLE WAS FOUND TO HAVE LIQUEFIABLE POTENTIAL
N = AVG SPT VALUE FOR INTERVAL SHOWN
Fs = ULTIMATE SIDE FRICTION FOR INTERVAL SHOWN (TSF)
Qb = ULTIMATE END BEARING FOR INTERVAL SHOWN (TSF)

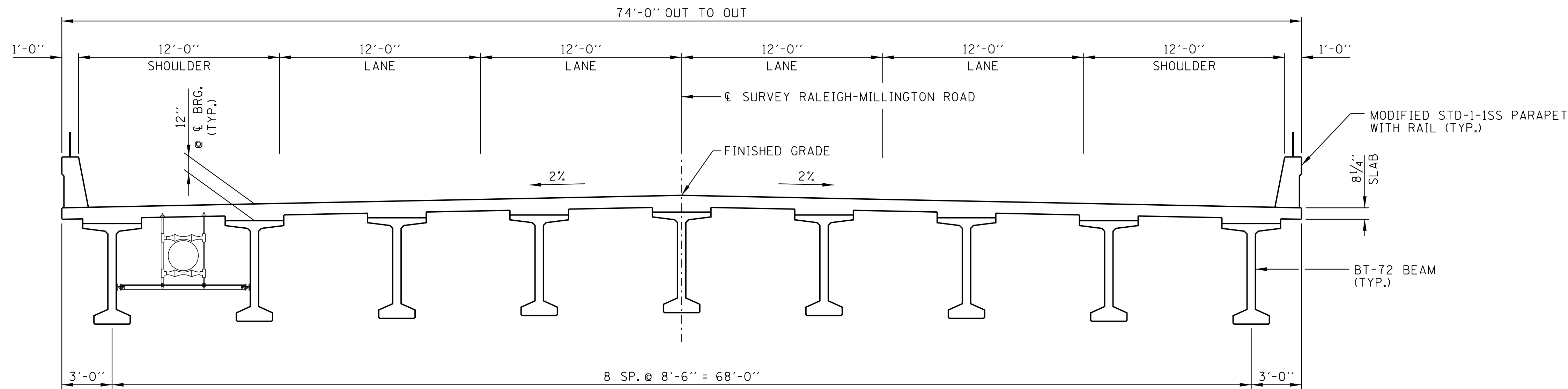
NOTE: SHELBY TUBE SAMPLE "N" VALUES WERE ESTIMATED
BASED ON FIELD POCKET PENETROMETER TEST
BORING 2 DATA WAS UTILIZED FOR BOTH THE SOUTH
ABUTMENT AND PIER 1

CONST. NO. _____			
PROJECT NO.	YEAR	SHEET NO.	
79054-3407-04	2013	49	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

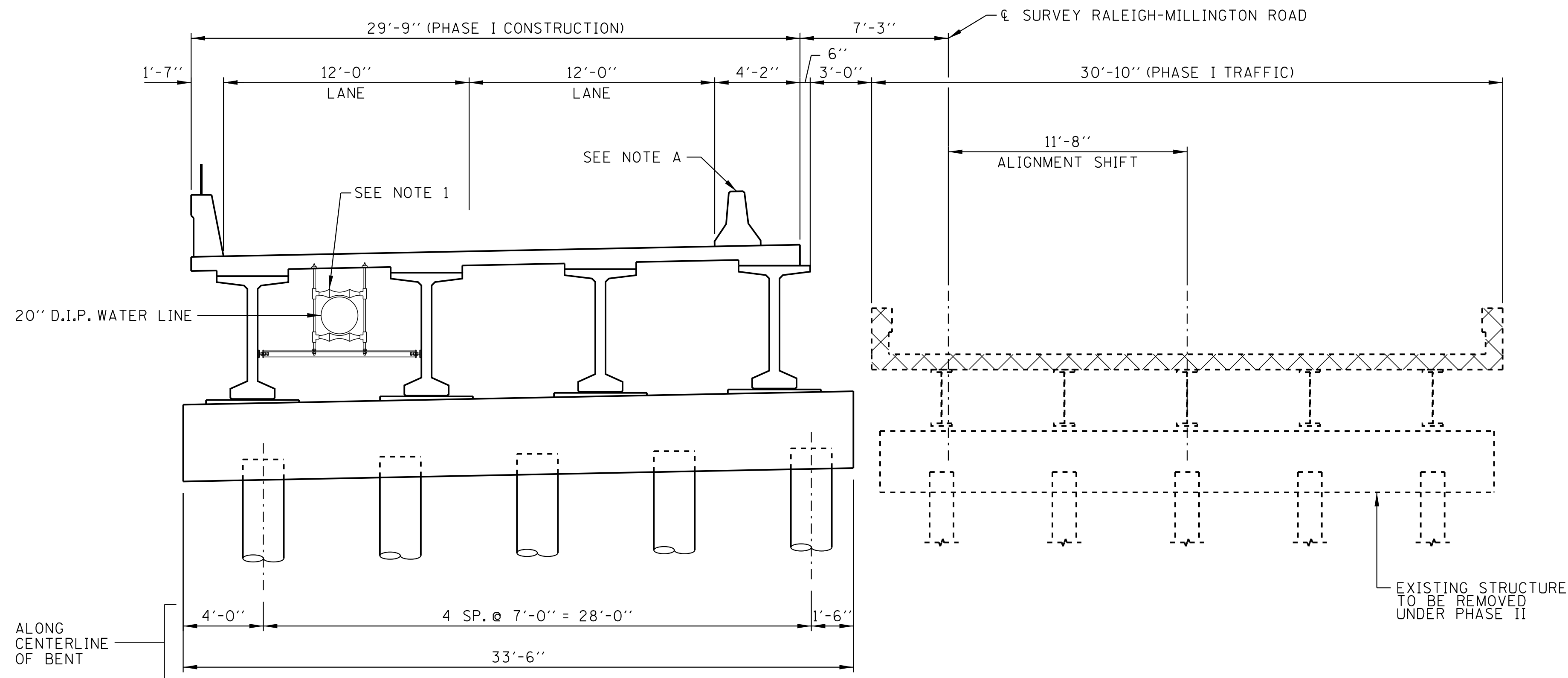
2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013



TYPICAL SECTION
(LOOKING FORWARD ON SURVEY)
(SCALE 1/4"=1'-0")



PHASE I CONSTRUCTION
(LOOKING FORWARD ON SURVEY)
(SCALE 1/4"=1'-0")

NOTE 1:
RELOCATION/INSTALLATION OF 20" DUCTILE IRON PIPE WATER LINE TO BE COMPLETED BY OTHERS (MLGW), INCLUDING DESIGN AND CONSTRUCTION OF UTILITY HANGER SUPPORTS. CONTRACTOR SHALL PROVIDE INSERTS IN DECK SLAB AND BULB-TEE BEAMS FOR HANGER SUPPORTS IN COORDINATION WITH MLGW REQUIREMENTS. COSTS FOR INSERTS SHALL BE CONSIDERED INCIDENTAL TO THE COSTS OF OTHER ITEMS. INTERMEDIATE DIAPHRAGM DETAILS SHOWN ON STD-14-1 FOR BULB-TEE BEAMS SHALL BE MODIFIED IF NEEDED TO ACCOMMODATE WATER LINE AND SUBMITTED TO THE ENGINEER FOR APPROVAL.



2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING SEQUENCE I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

DESIGNED BY: JOHN CROSSLIN DATE: 5/2012
DRAWN BY: MIKE BUCKNER DATE: 5/2012
SUPERVISED BY: ERIC NELSON DATE: 5/2012
CHECKED BY: BEN SHEALY DATE: 5/2012

NOTE A:
INTERCONNECTED PORTABLE BARRIER RAIL. SEE STD. DWG. STD-2-1.

29'-9" (PHASE II TRAFFIC)

44'-3" (PHASE II CONSTRUCTION)

1'-7"

12'-0" LANE

12'-0" LANE

4'-2"

7'-3"

SEE NOTE A

€ SURVEY RALEIGH-MILLINGTON ROAD

4'-0"

33'-6"

10 SP. @ 7'-0" = 70'-0"

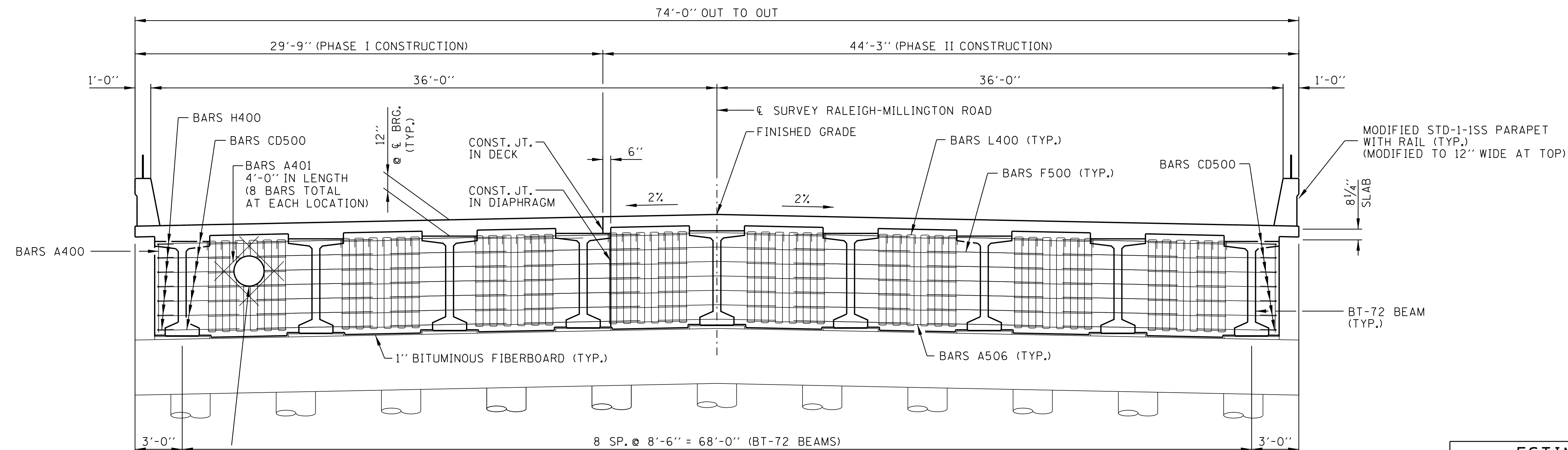
44'-6" (PHASE II CONSTRUCTION)

4'-0"

EXISTING STRUCTURE TO BE REMOVED

ALONG CENTERLINE OF BENT

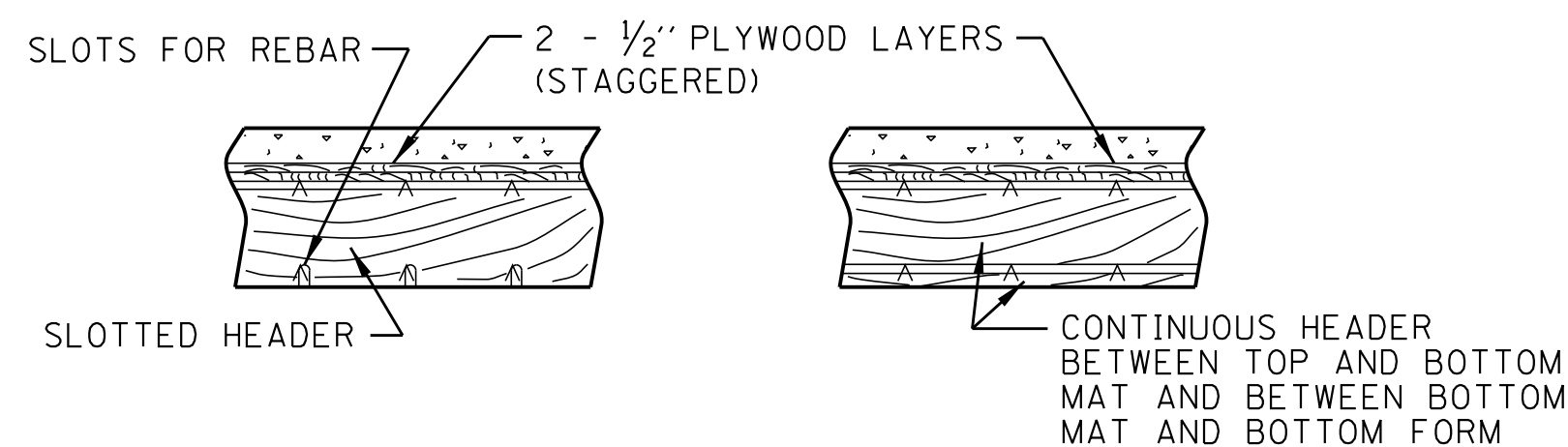
U-46-104



TYPICAL SECTION SHOWING DIAPHRAGM AT BENTS
(LOOKING FORWARD ON SURVEY)
(SCALE 1/4"=1'-0")

SUPERSTRUCTURE GENERAL NOTES

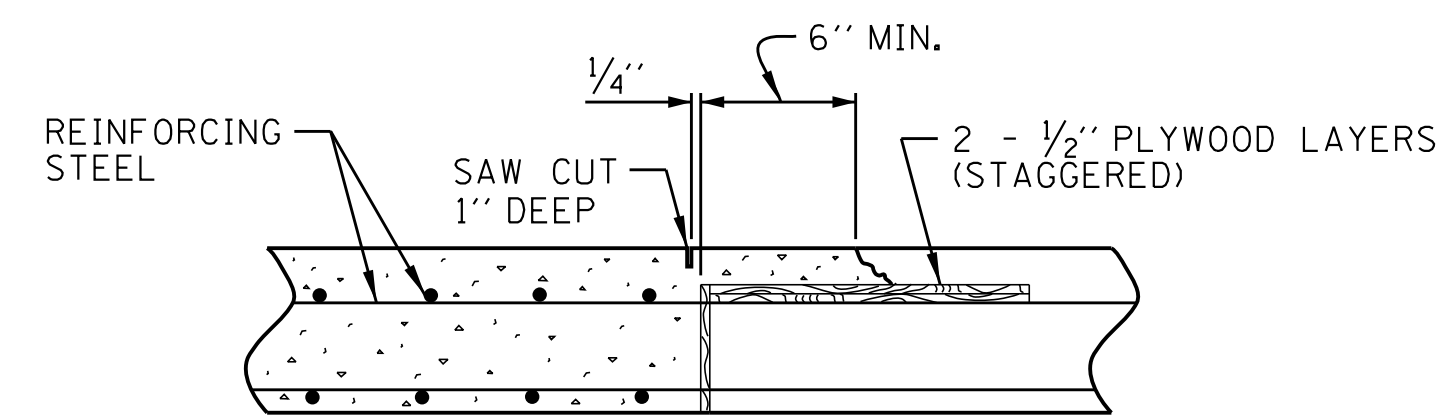
1. NOTE: DIAPHRAGM SHALL BE POURED CONCURRENTLY WITH THE DECK SLAB. ALL DIAPHRAGM CONCRETE SHALL BE INCLUDED IN THE QUANTITY FOR ITEM NO. 604-03.09.
2. NOTE: NO PORTION OF THE BRIDGE RAIL SHALL BE POURED UNTIL THE DECK SLAB IS IN PLACE.
3. NOTE: WHEN POURING SLAB, PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR BRIDGE PARAPET. THE BRIDGE PARAPET SHALL NOT BE POURED UNTIL THE SLAB IS POURED AND CURED.
4. NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE BEAMS TO PREVENT DAMAGE DUE TO TWISTING OR OVERTURNING DURING ALL PHASES OF CONSTRUCTION. IT IS STRONGLY RECOMMENDED THAT THE TEMPORARY ERECTION DIAPHRAGMS BE INSTALLED PRIOR TO PLACING ANY LOADS ON THE GIRDERS. HOWEVER, TEMPORARY ERECTION DIAPHRAGMS MUST BE IN PLACE IN THE SPAN AT THE TIME THE SLAB IS POURED IN SAID SPAN.
5. SPECIAL NOTE FOR ANCHOR BOLTS AT BENTS: ANCHOR BOLT ASSEMBLIES AT BENTS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING STD-6-1.
6. SEE STD-1-1SS FOR PLACEMENT OF BARS B570E.
7. COST OF CONCRETE AND REINFORCING STEEL IN MODIFIED PARAPET TO BE INCLUDED IN THE COST OF ITEM 620-05.01. SEE DRAWING U-46-123.
8. RELOCATION/INSTALLATION OF 20" DUCTILE IRON PIPE WATER LINE TO BE COMPLETED BY OTHERS (MLGW).
9. EXACT LOCATION AND SIZE OF OPENING IN BENT DIAPHRAGM FOR WATER LINE SHALL BE DETERMINED BY CONTRACTOR IN COORDINATION WITH MLGW REQUIREMENTS AND SUBMITTED TO ENGINEER FOR APPROVAL.



ALTERNATE "A"

ALTERNATE "B"

ALTERNATE HEADER DETAILS

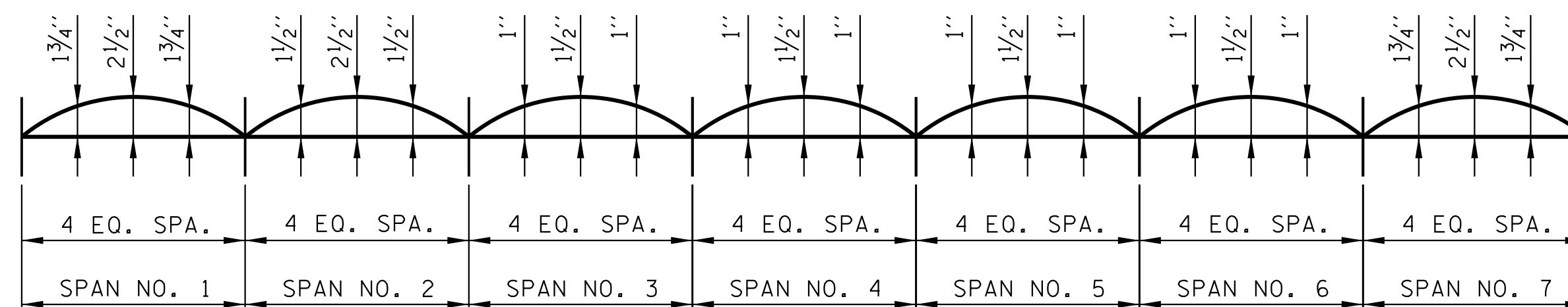


SLAB CONSTRUCTION JOINT DETAIL

DECK CONCRETE POURING SEQUENCE

SLAB CONSTRUCTION JOINTS MAY BE LOCATED AT THE CONTRACTOR'S OPTION
SUBJECT TO THE FOLLOWING:

1. NO CONSTRUCTION JOINT MAY BE LOCATED CLOSER THAN 10'-0" OR FURTHER THAN 15'-0" FROM AN INTERIOR SUPPORT.
2. THE SLAB IN THE MIDDLE SECTION OF BOTH ADJACENT SPANS MUST BE POURED TO WITHIN AT LEAST 15'-0" OF THE SUPPORTS EITHER PRIOR TO OR CONCURRENTLY WITH THE SLAB OVER AN INTERIOR SUPPORT.
3. ALL SLAB CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE SLAB CONSTRUCTION JOINT DETAILS SHOWN.

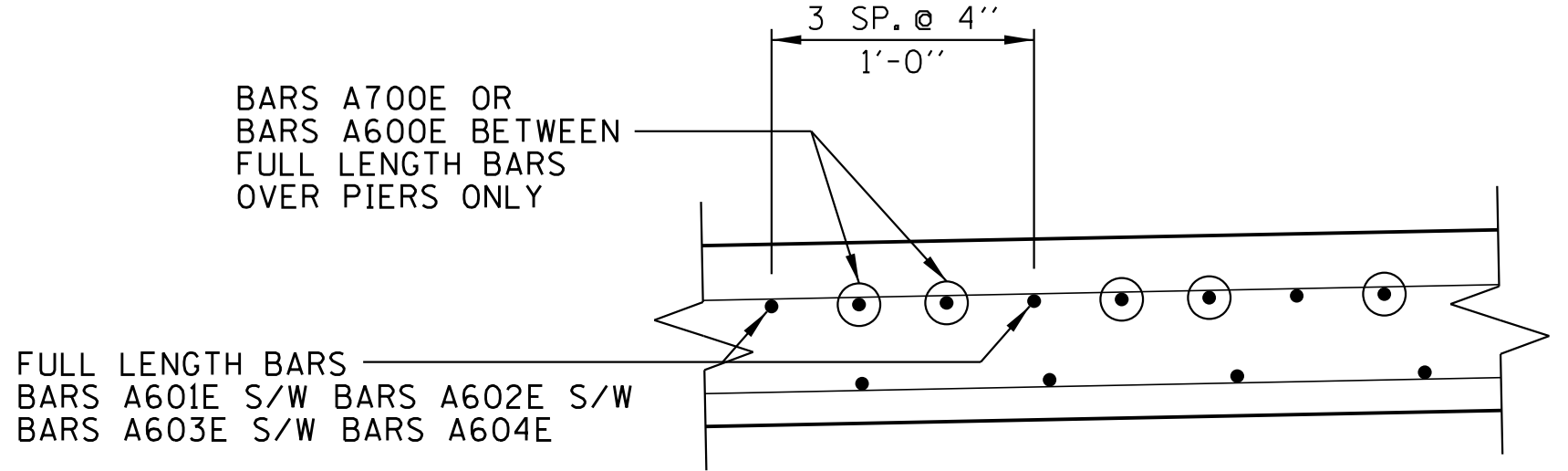
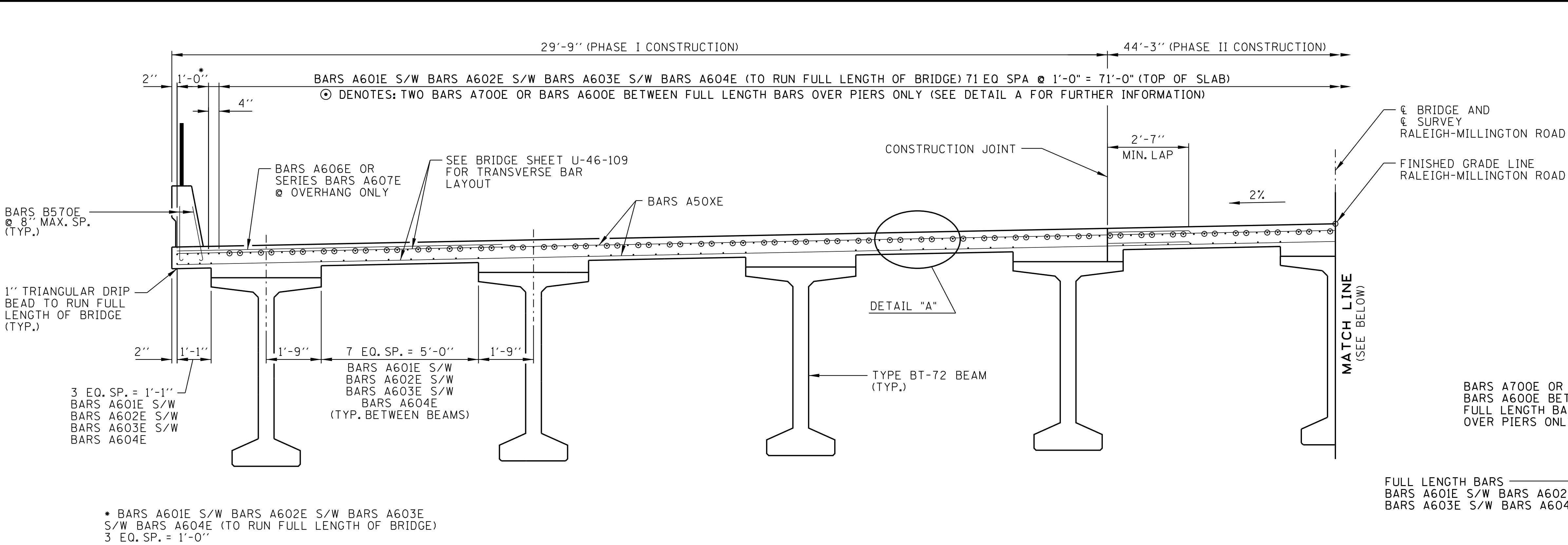


DEAD LOAD CORRECTION CURVE

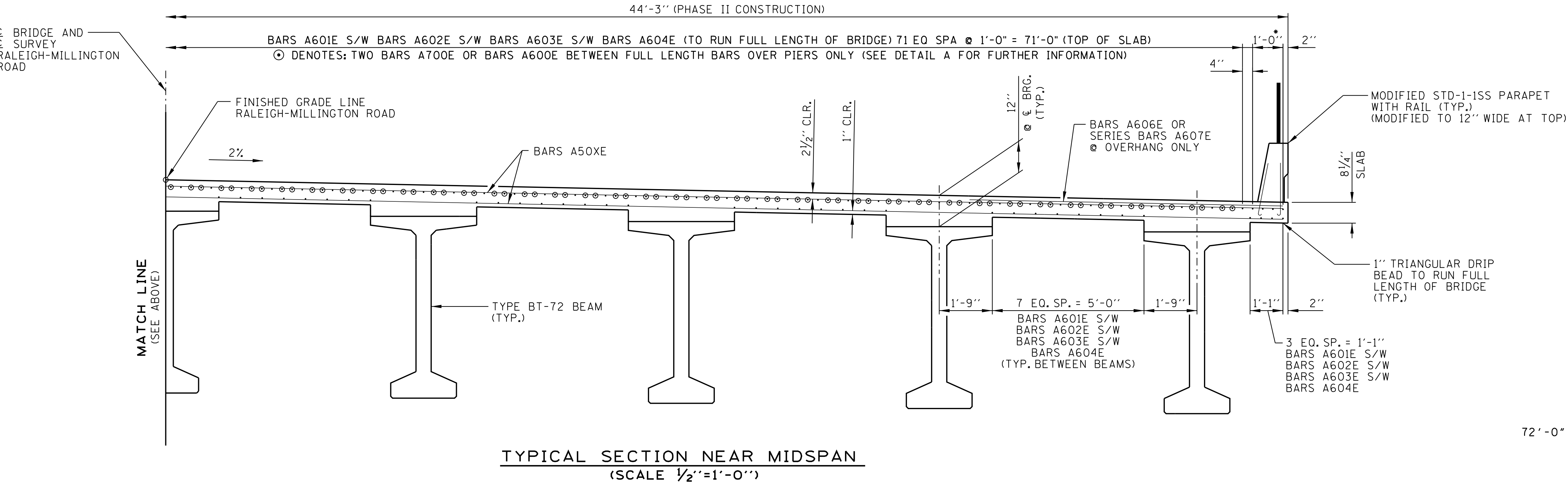
THIS CURVE IS FOR DEAD LOAD SLAB AND ALL DEAD LOADS THAT ARE APPLIED AFTER SLAB IS IN PLACE AND SHOULD BE CORRECTED TO COMPENSATE FOR THE EFFECTS DUE TO VERTICAL CURVE.

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
TYPICAL SECTION I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013



DETAIL "A"
(SCALE 1/2"=1'-0")



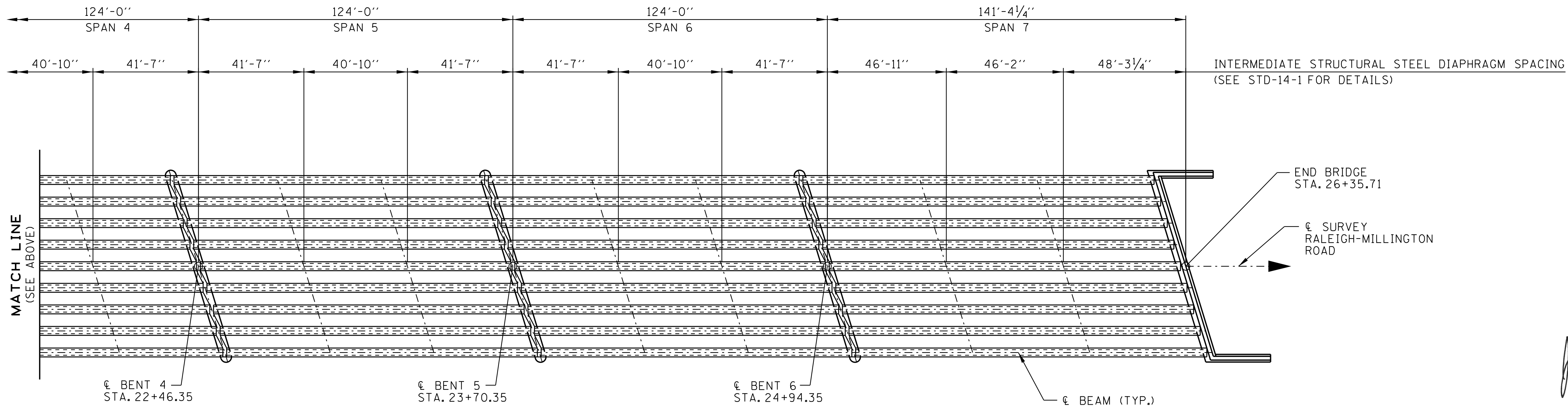
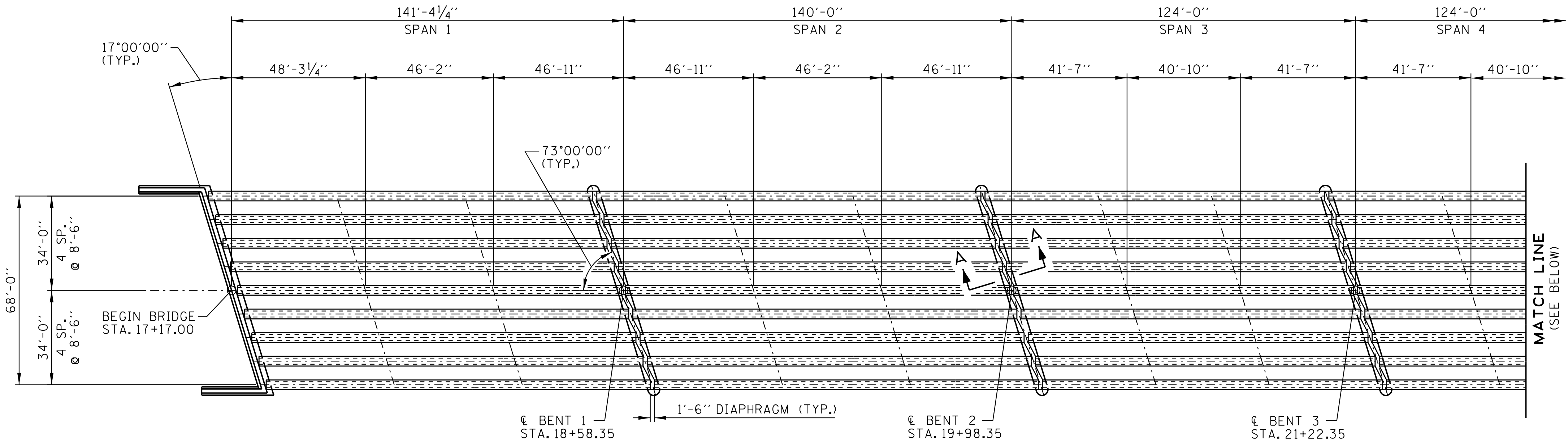
TYPICAL SECTION NEAR MIDSPAN
(SCALE 1/2"=1'-0")

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
TYPICAL SECTION II
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

DESIGNED BY: JOHN CROSSLIN DATE: 5/2012
DRAWN BY: MIKE BUCKNER DATE: 5/2012
SUPERVISED BY: ERIC NELSON DATE: 5/2012
CHECKED BY: BEN SHEALY DATE: 5/2012



FRAMING PLAN
(SCALE 1"=25')

CONST. NO. _____			
PROJECT NO.	YEAR	SHEET NO.	
79054-3407-04	2013	54	
REVISIONS			
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NOTE :
FOR SECTION A-A SEE DRAWING U-46-108.

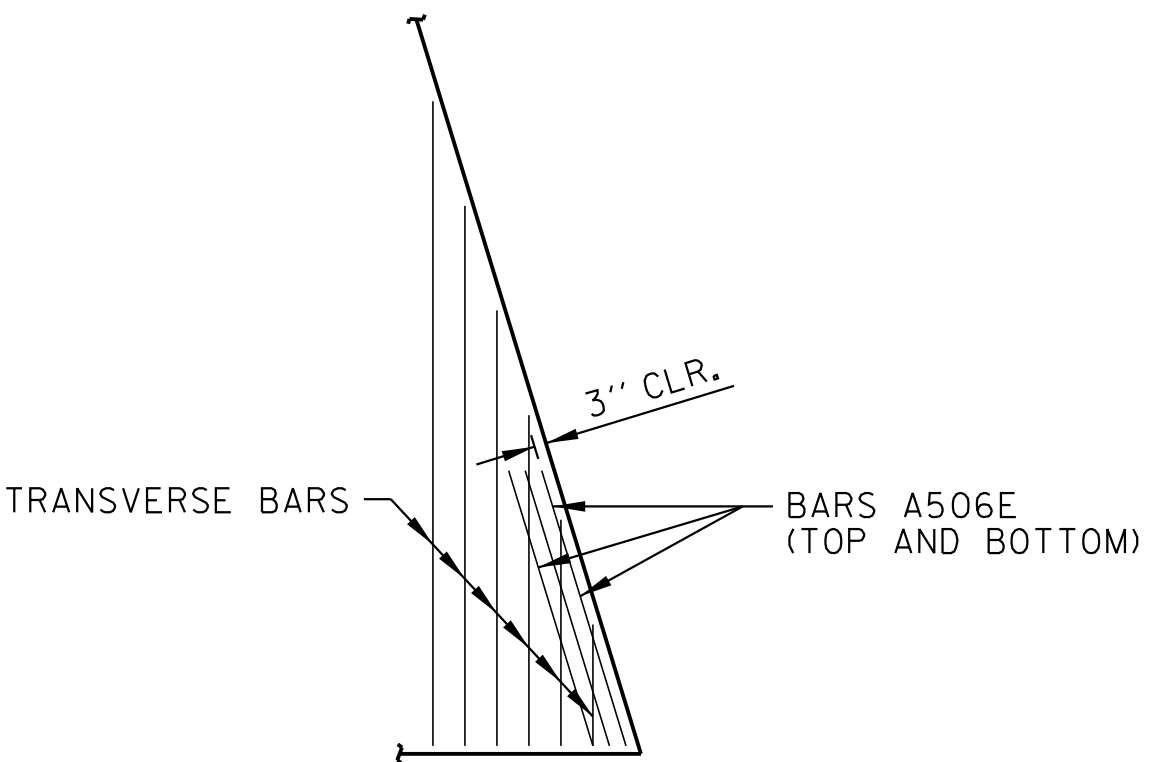
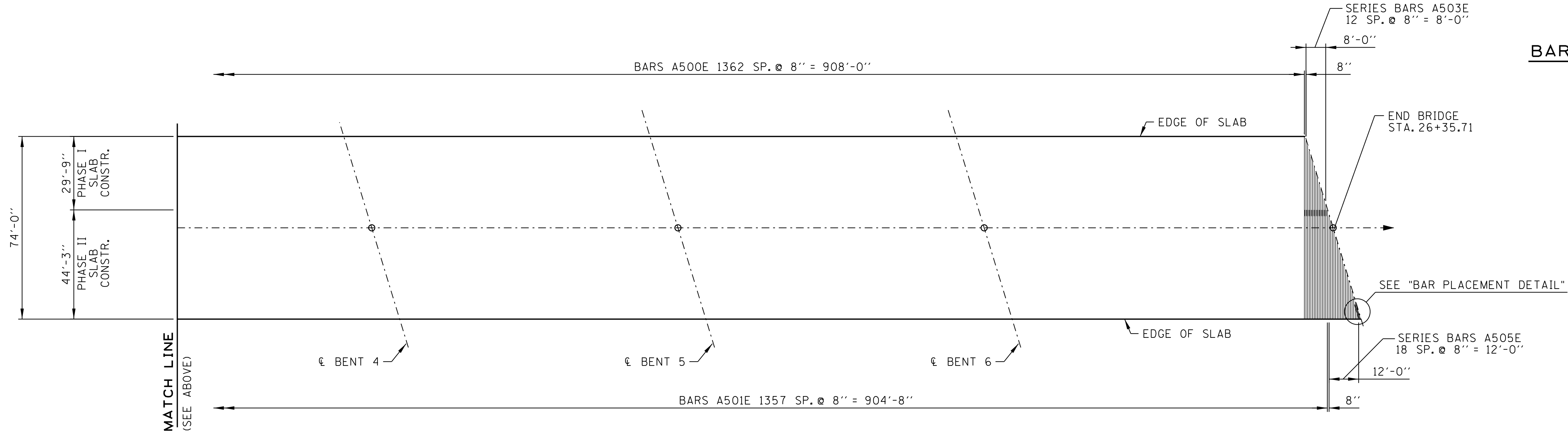
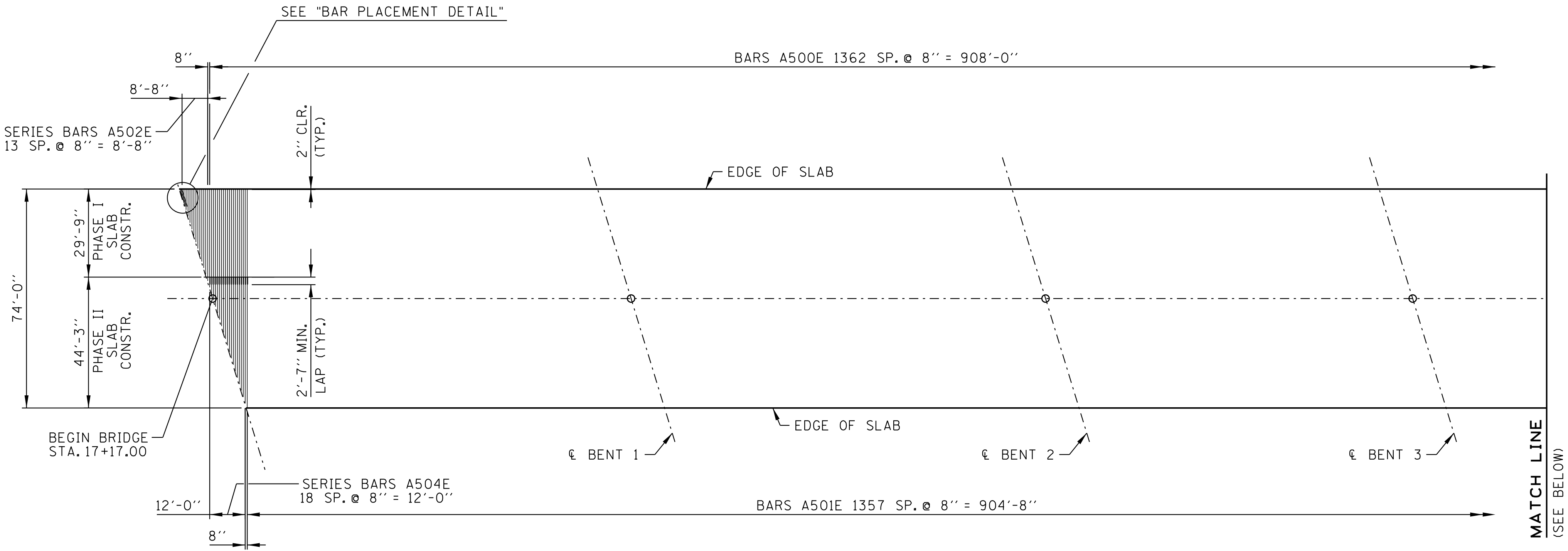


2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
FRAMING PLAN I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

DESIGNED BY: JOHN CROSSLIN DATE: 5/2012
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SUPERVISED BY: ERIC NELSON DATE: 5/2012
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CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
79054-3407-04	2013	56	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



BAR PLACEMENT DETAIL

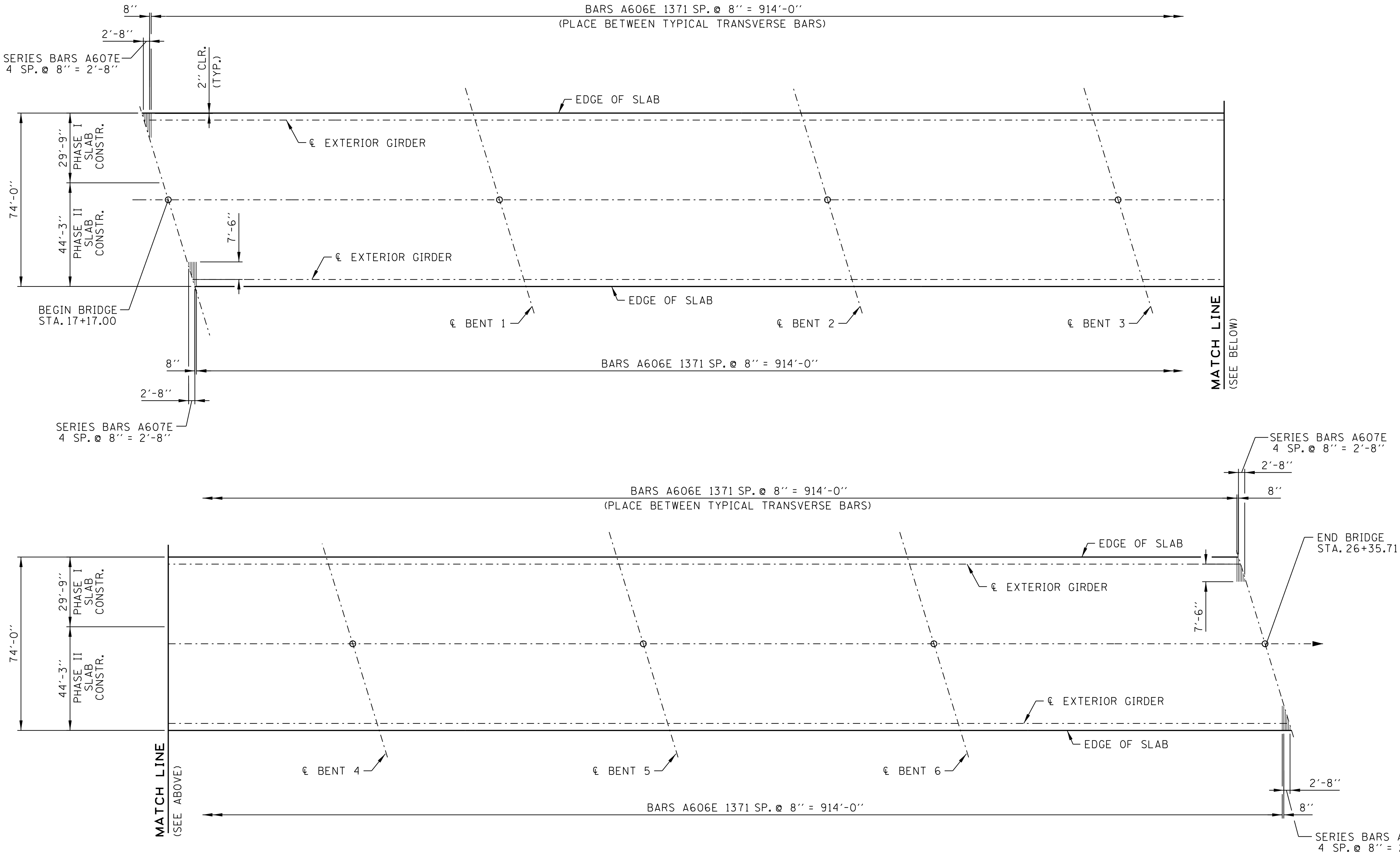


PLAN OF TRANSVERSE REINFORCING TOP AND BOTTOM OF SLAB
(FOR CLARITY, NOT ALL BARS ARE SHOWN)
(SCALE 1"=25')

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
SLAB PLAN I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

DESIGNED BY: JOHN CROSSLIN DATE: 5/2012
DRAWN BY: MIKE BUCKNER DATE: 5/2012
SUPERVISED BY: ERIC NELSON DATE: 5/2012
CHECKED BY: BEN SHEALY DATE: 5/2012



PLAN OF TRANSVERSE REINFORCING TOP OF SLAB AT OVERHANG
(FOR CLARITY, NOT ALL BARS ARE SHOWN)
(SCALE 1"=25')

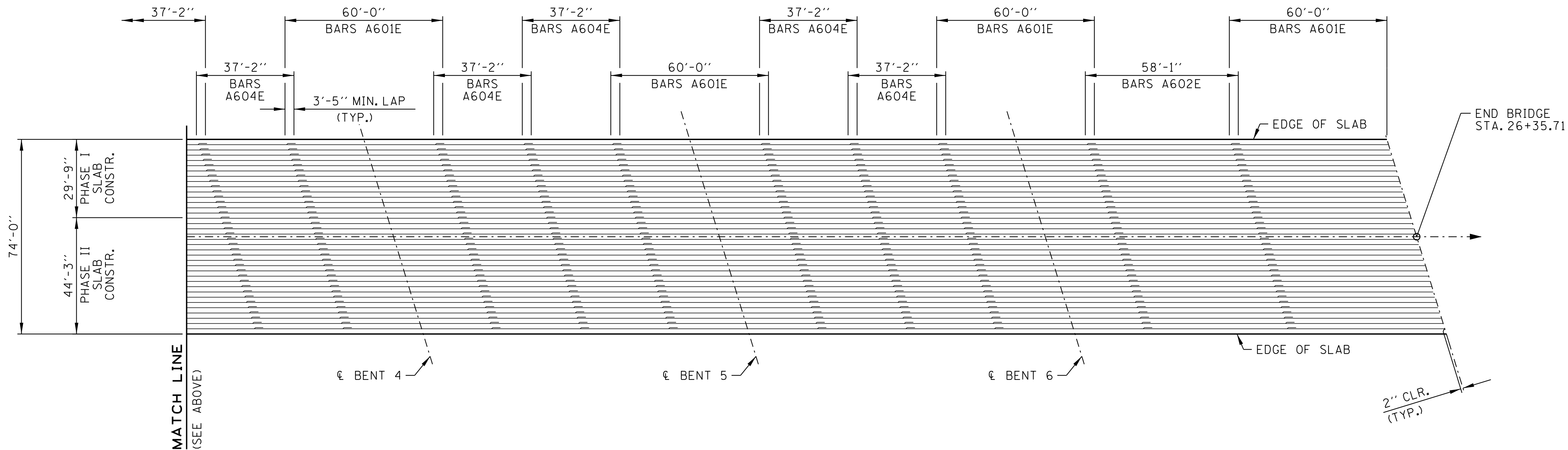
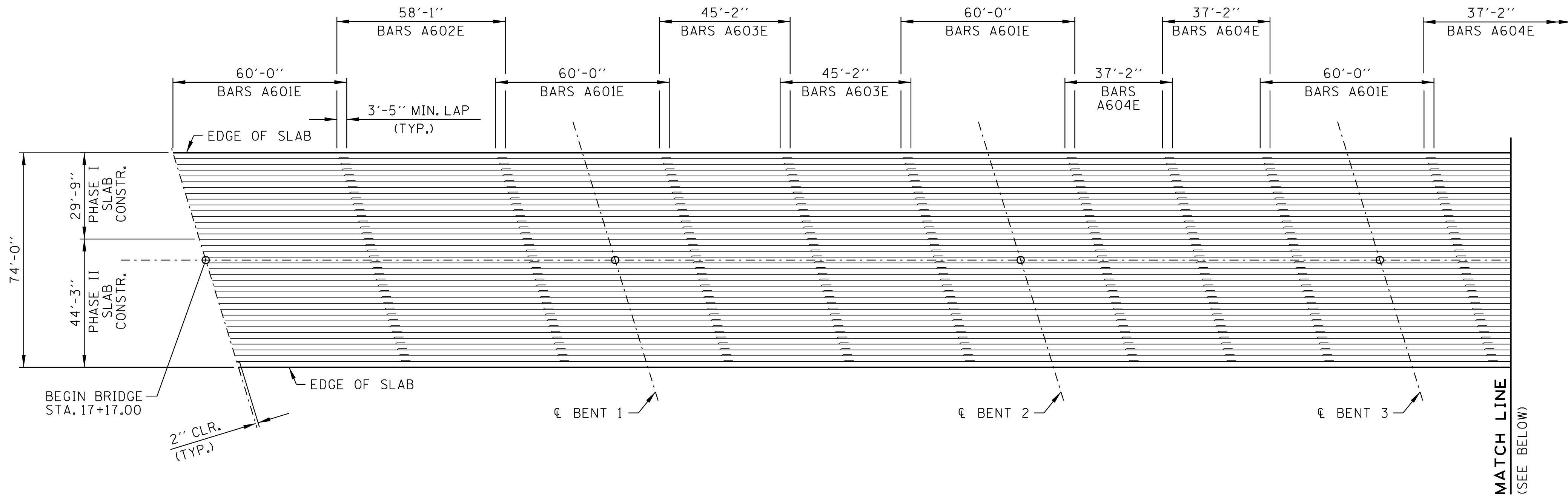
CONST. NO. _____			
PROJECT NO.	YEAR	SHEET NO.	
79054-3407-04	2013	57	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
	</		



2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
SLAB PLAN II
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012



PLAN OF MAIN REINFORCING IN BOTTOM OF SLAB
(FOR CLARITY, NOT ALL BARS ARE SHOWN)
(SCALE 1"=25')

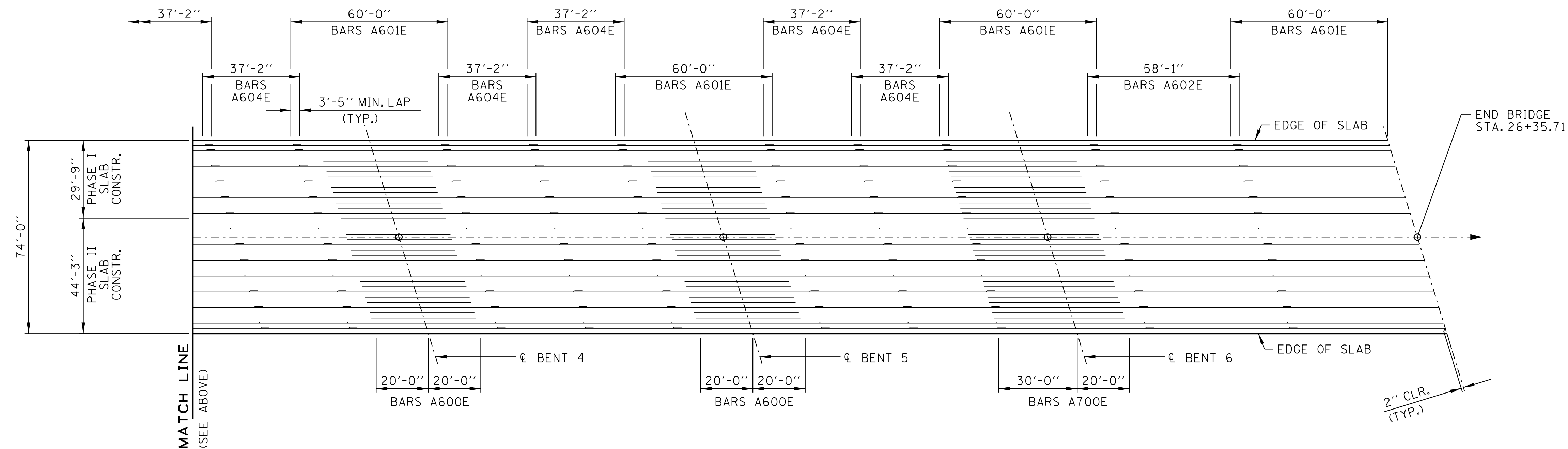
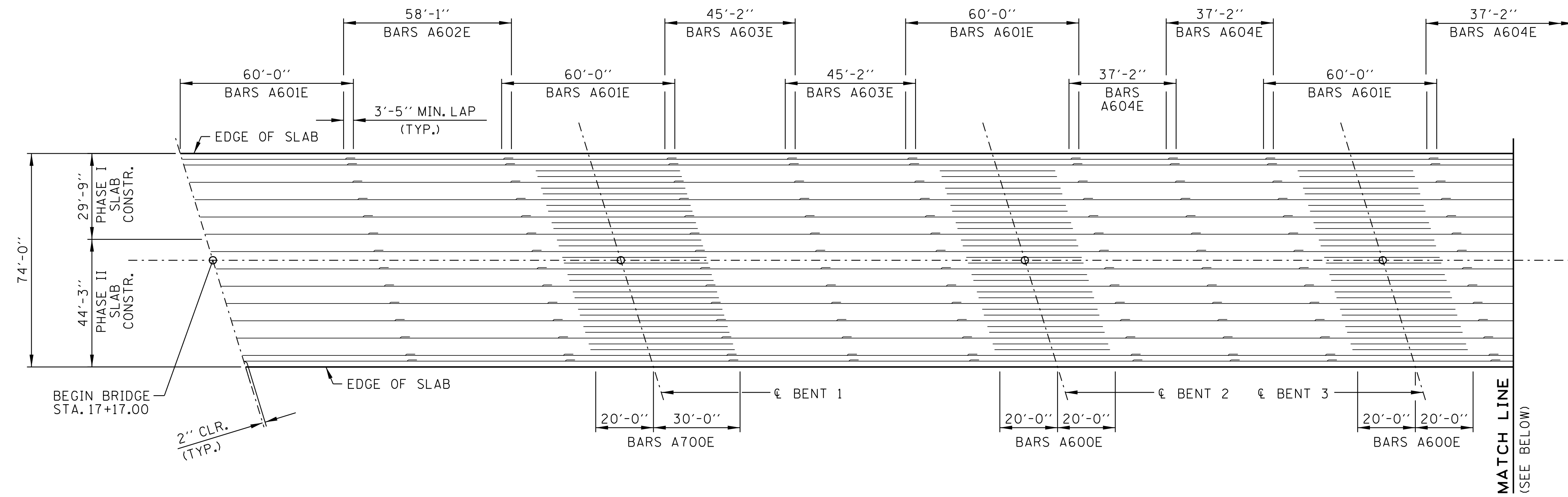
CONST. NO. _____			
PROJECT NO.		YEAR	SHEET NO.
79054-3407-04		2013	58
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
MAIN REINFORCING PLAN I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

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DRAWN BY: MIKE BUCKNER DATE: 5/2012
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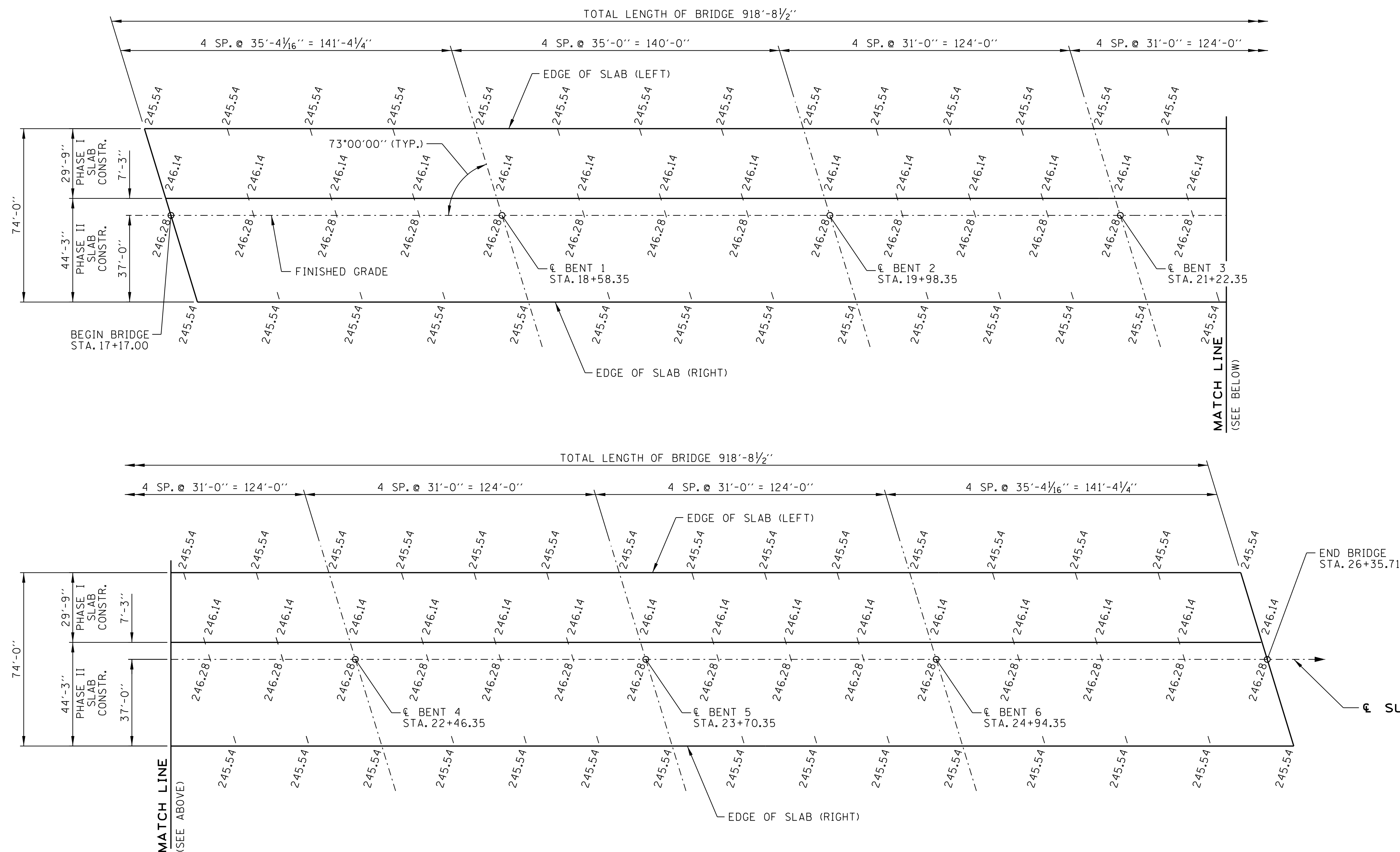
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PLAN OF MAIN REINFORCING IN TOP OF SLAB
(FOR CLARITY, NOT ALL BARS ARE SHOWN)
(SCALE 1"=25')

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
MAIN REINFORCING PLAN II
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012

[illegible]

SCREENED ELEVATIONS
(SCALE 1"=25')

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINISH GRADE ELEVATIONS
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

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DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012

[illegible]

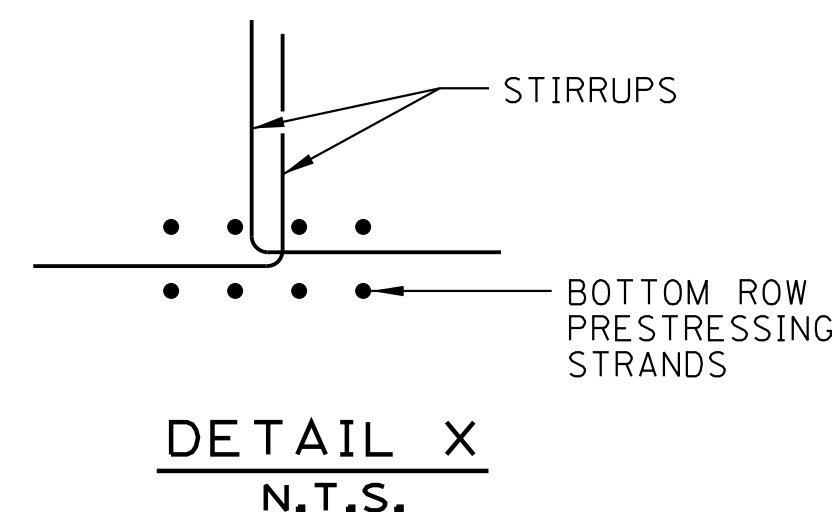
	BAR	SIZE	NO. REQ'D	LENGTH
	A400	4	123	3'-2"
	A500	5	8	5'-6"
	A600	6	18	43'-6"
	H500	5	270	7'-8½"
	H600	6	16	7'-8½"
	H601	6	24	7'-1"
	HA300	3	38	4'-7"

* SEE STD. DWG. STD-14-1 FOR
LOCATION OF A500 BARS

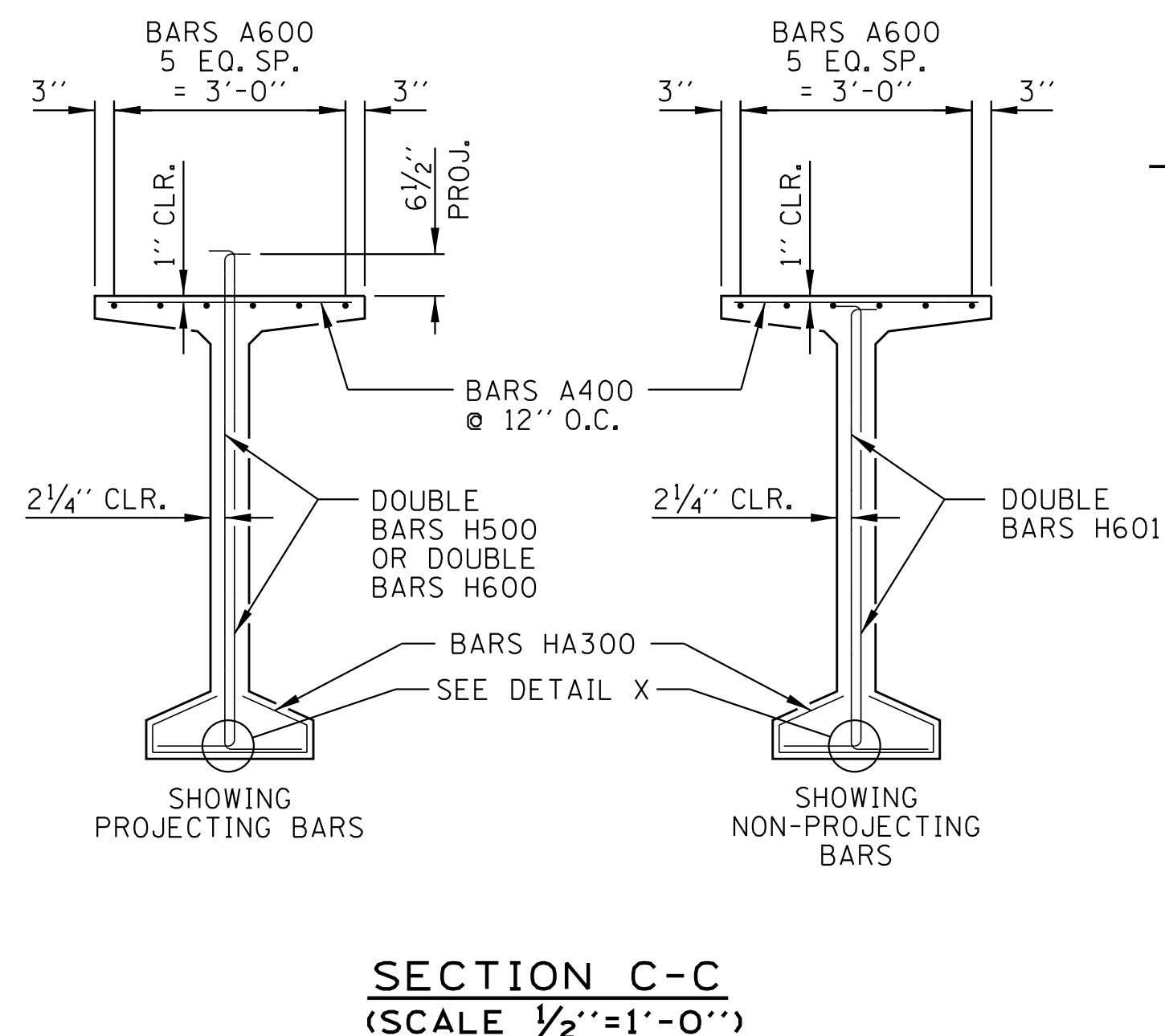
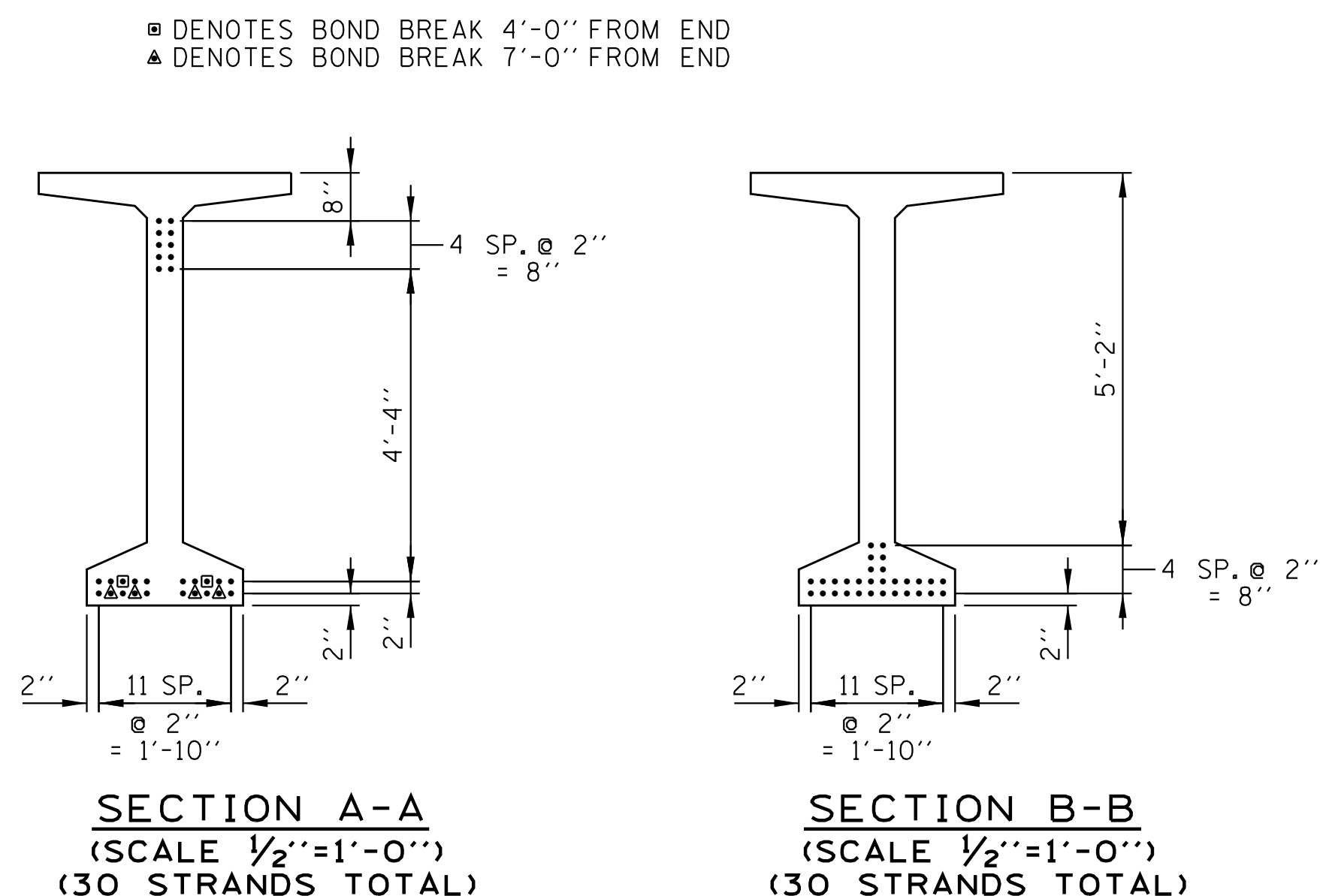
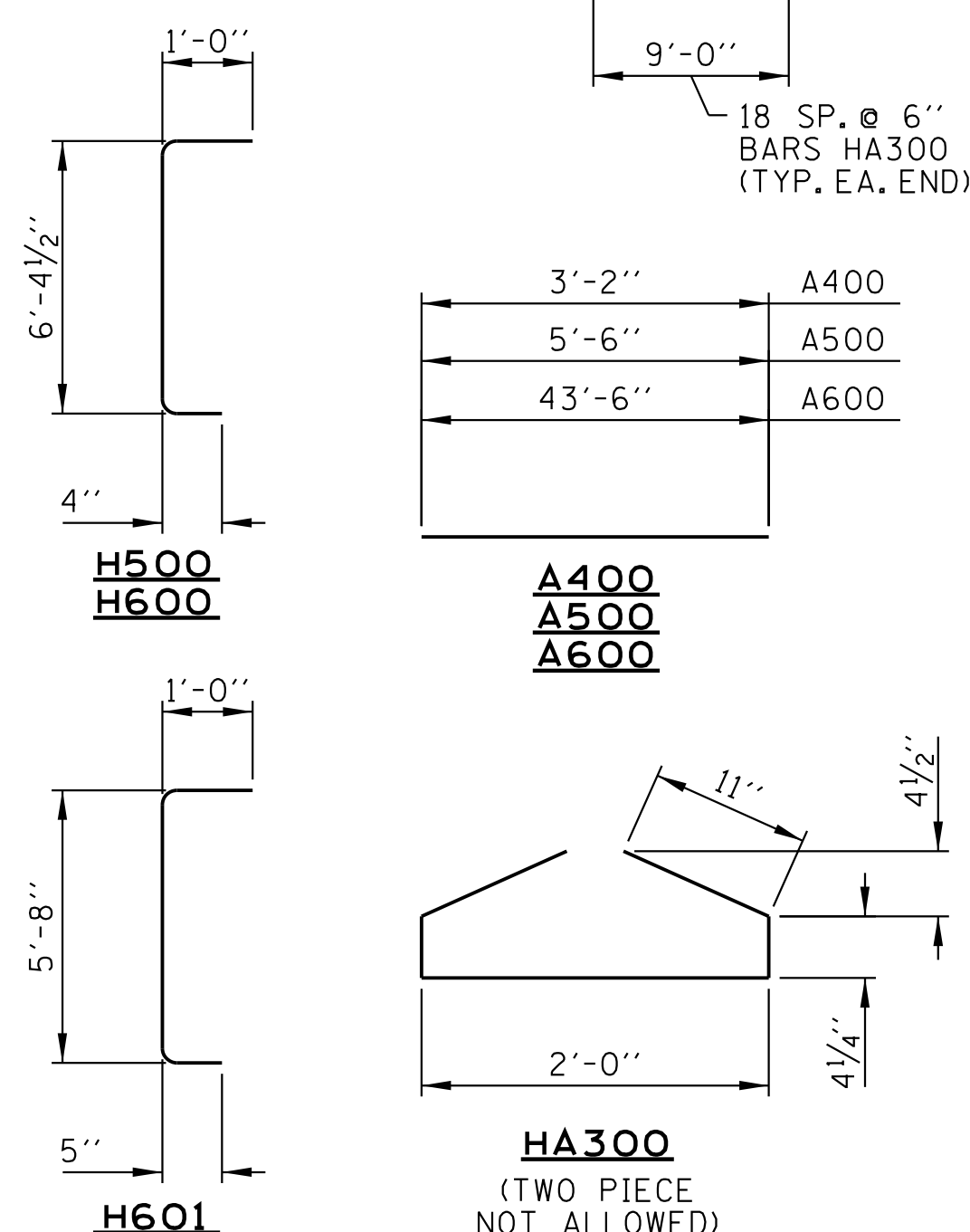
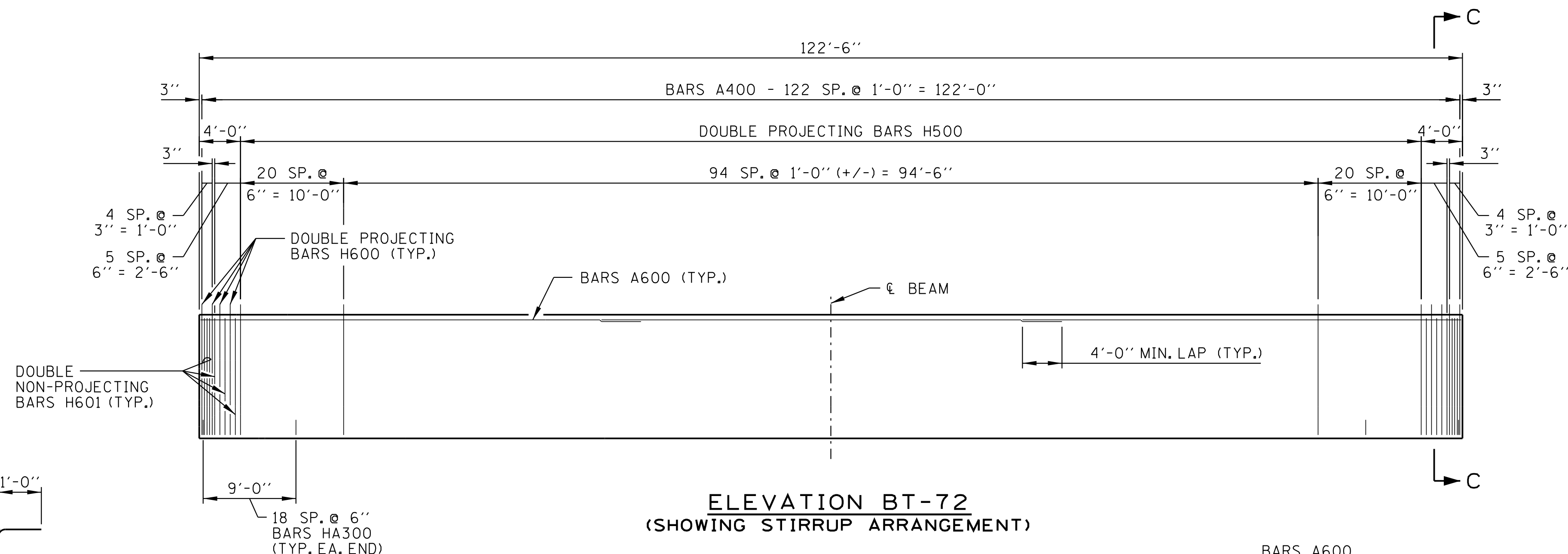
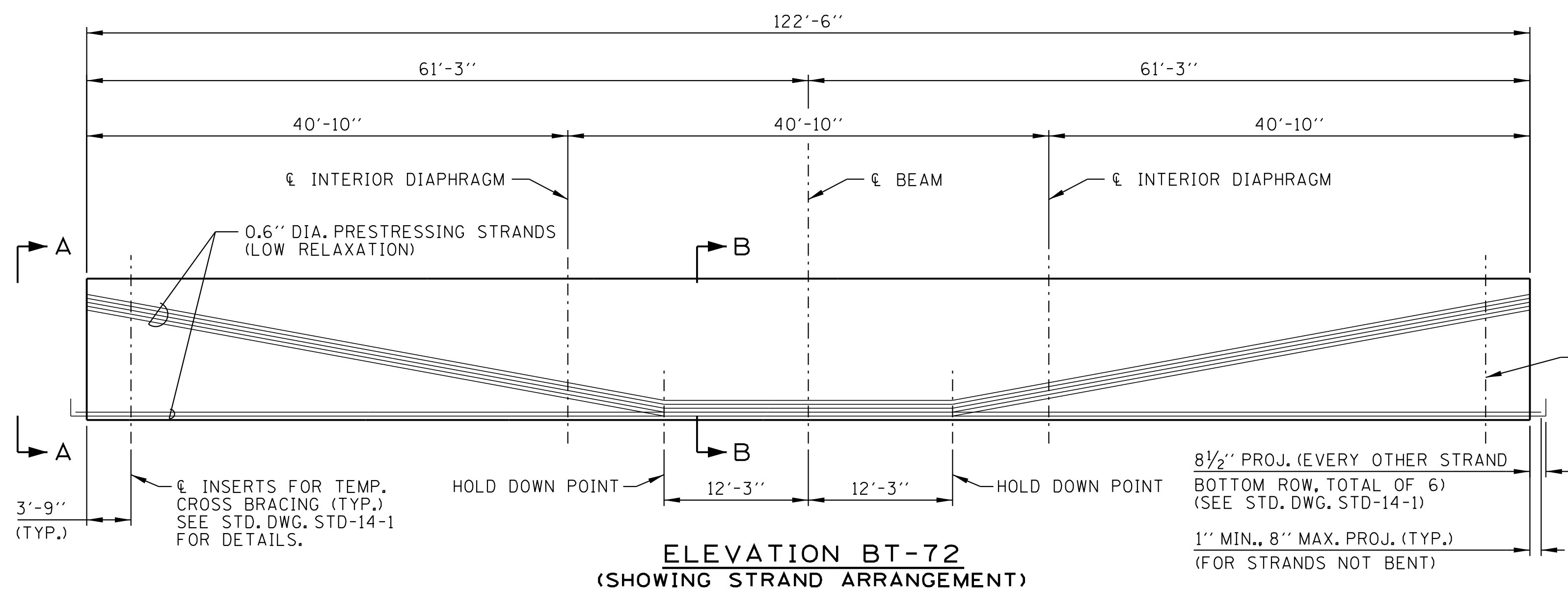
LIVE LOAD DISTRIBUTION FACTOR: FOR SHEAR = 0.849 FOR MOMENT = 0.701
COMPOSITE DEAD LOAD: 400 LB/FT
COMPOSITE SLAB DESIGN STRENGTH: $f'_c = 3500$ PSI
NOTE: DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

1. SEE STD-14-1 FOR BULB-TEE STANDARD DETAILS AND NOTES.
2. THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 10,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 7,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTES.
3. ALL BEAMS ARE BT-72.
4. ALL STRANDS ARE 0.6" DIA. 270K LOW RELAXATION PRESTRESSING STRANDS. INITIAL PULL = 43,900 LBS.
5. MINIMUM AGE OF BEAMS AT TIME OF POURING SLAB SHALL BE 90 DAYS.

NO. BEAMS REQ'D	PRESTRESSING STRANDS 0.6" DIA. (LOW RELAXATION) LB.	CLASS "A" CONCRETE C.Y.	REINFORCING STEEL LB.
36	2767	24.2	4159



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRESTRESSED BEAM DETAILS
SPANS 3, 4, 5 & 6
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013



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DESIGNED BY	JOHN CROSSLIN	DATE	5/2002
DRAWN BY	MIKE BUCKNER	DATE	5/2002
SUPERVISED BY	ERIC NELSON	DATE	5/2002
CHECKED BY	BRANC SHELSON	DATE	5/2002

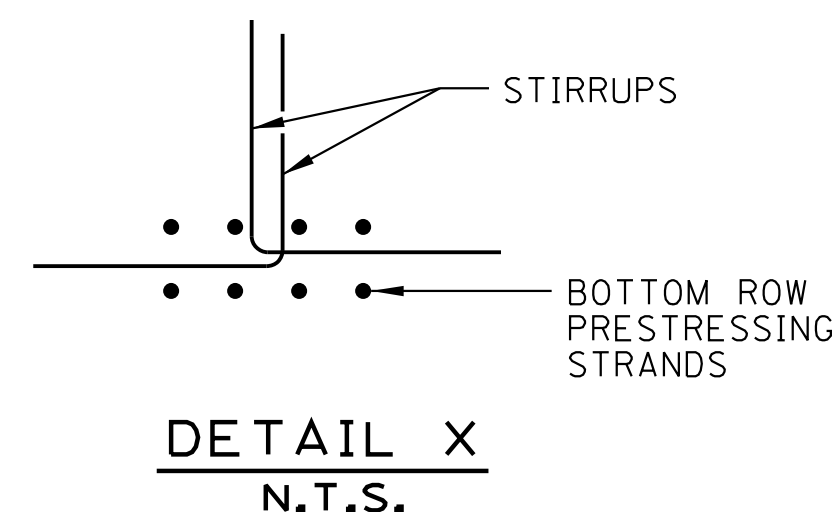
*	A500	5	8	5'-6"
	A600	6	24	37'-9"
	H500	5	324	7'-8 $\frac{1}{2}$ "
	H600	6	16	7'-8 $\frac{1}{2}$ "
	H601	6	24	7'-1"
	HA300	3	38	4'-7"

* SEE STD. DWG. STD-14-1 FOR
LOCATION OF A500 BARS

LIVE LOAD DISTRIBUTION FACTOR: FOR SHEAR = 0.849 FOR MOMENT = 0.701
COMPOSITE DEAD LOAD: 400 LB/FT
COMPOSITE SLAB DESIGN STRENGTH: $f'c = 3500$ PSI
NOTE: DOWNWARD DEFLECTION UNDER TOTAL DL IS NOT ALLOWED.

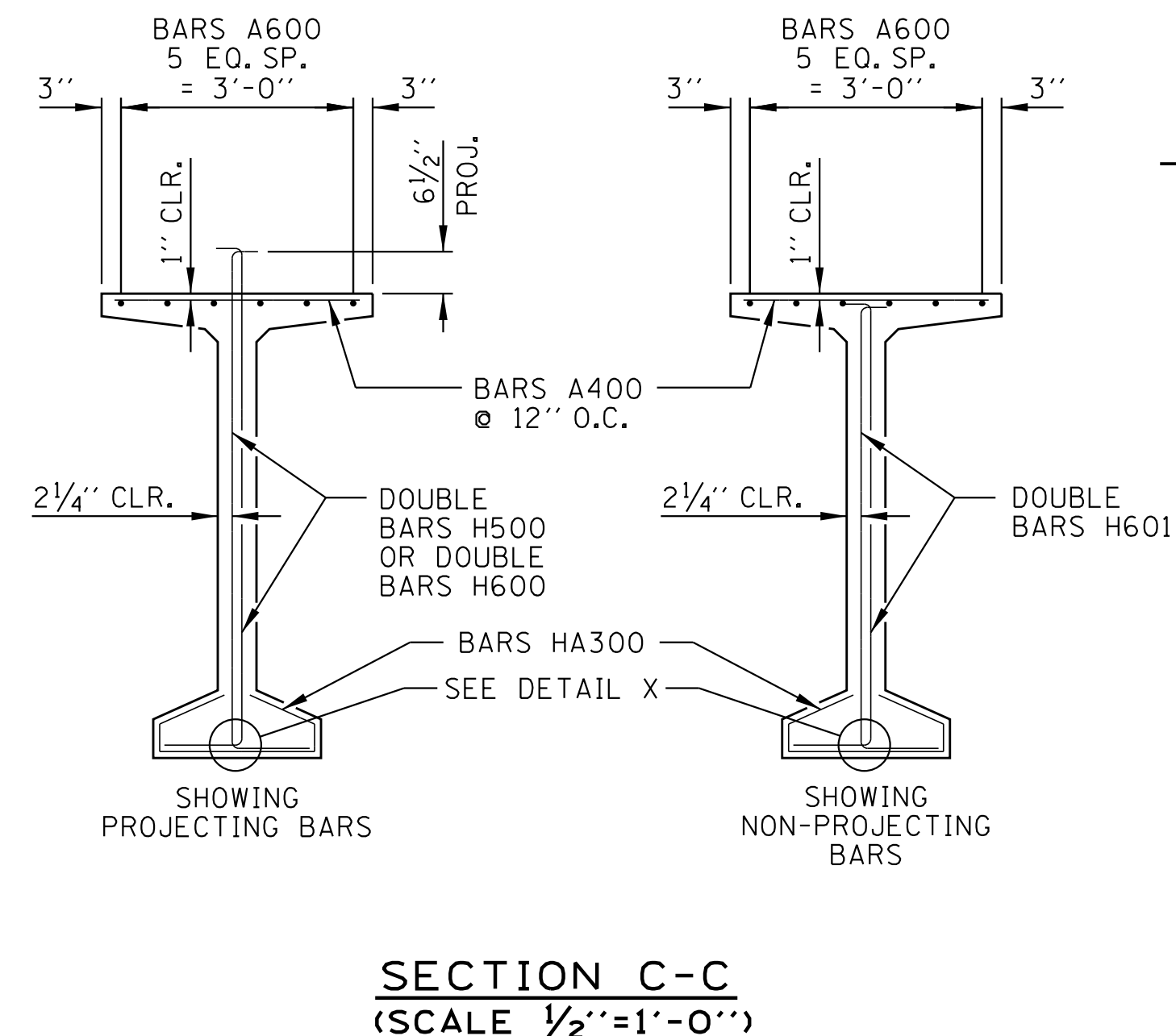
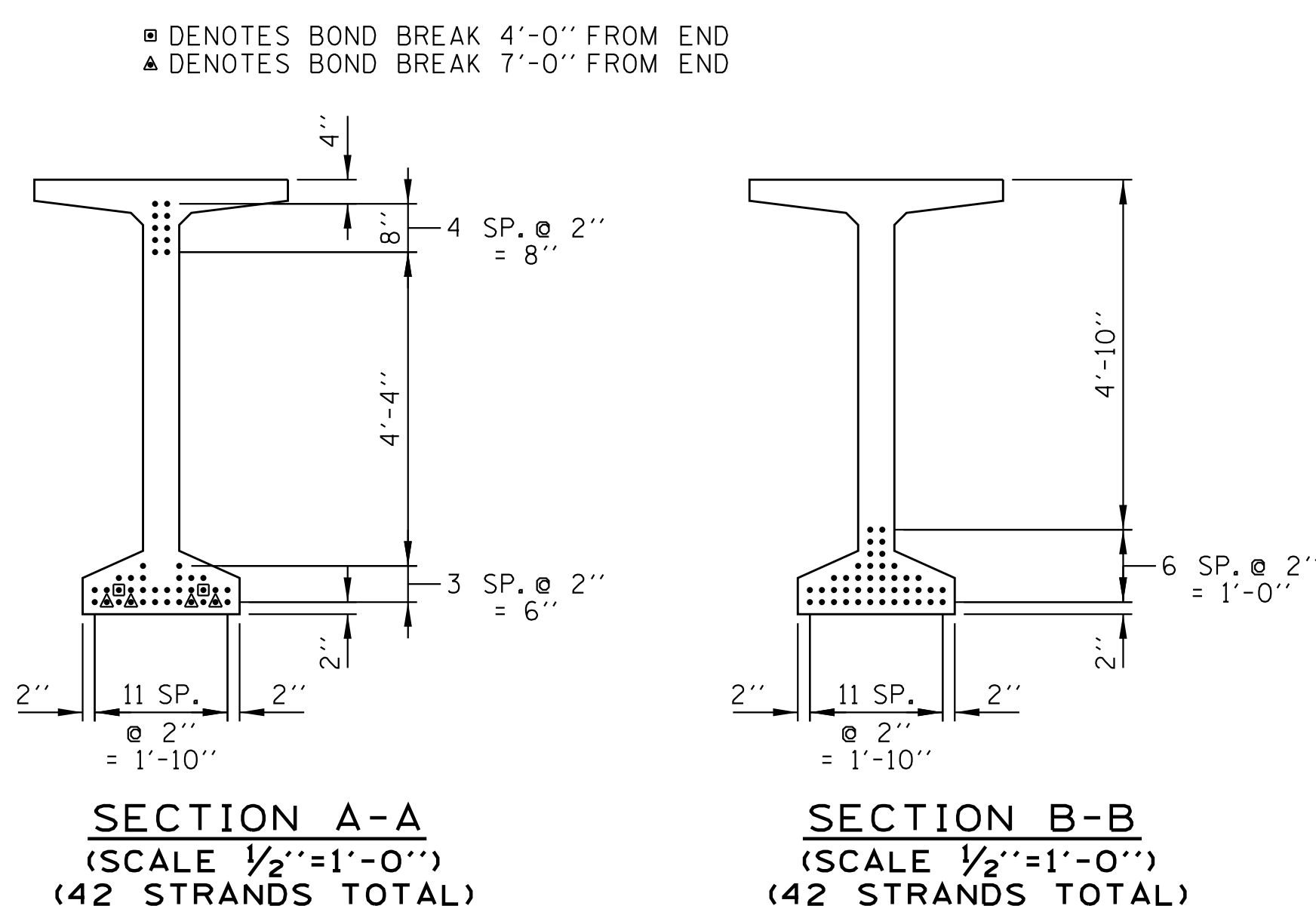
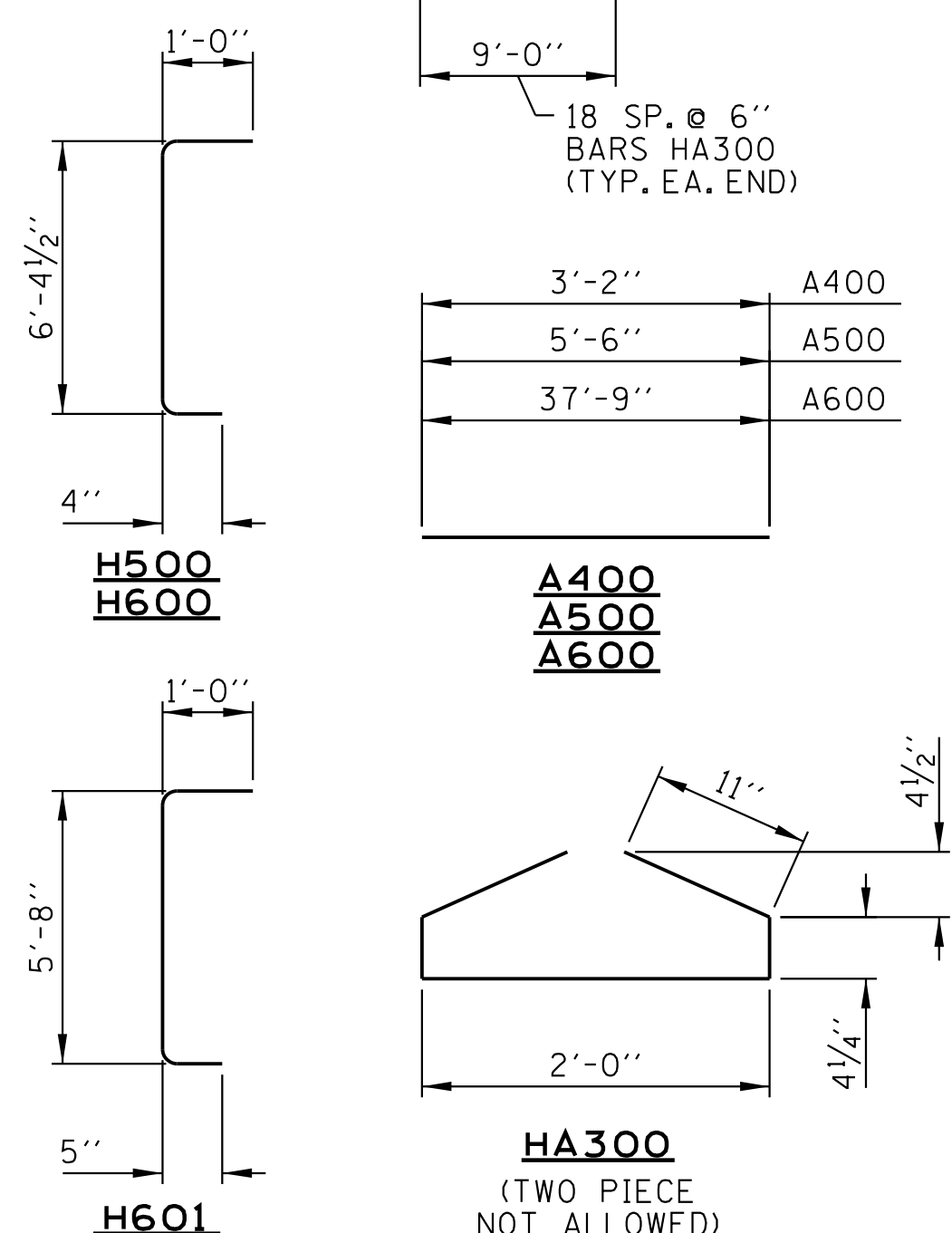
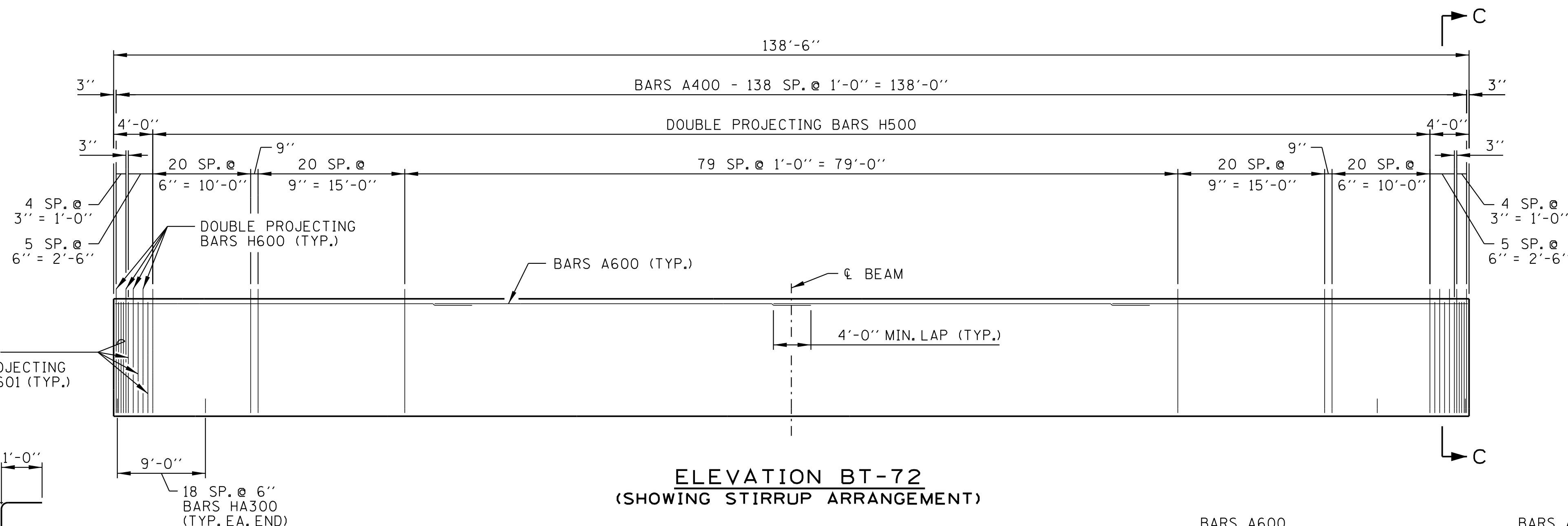
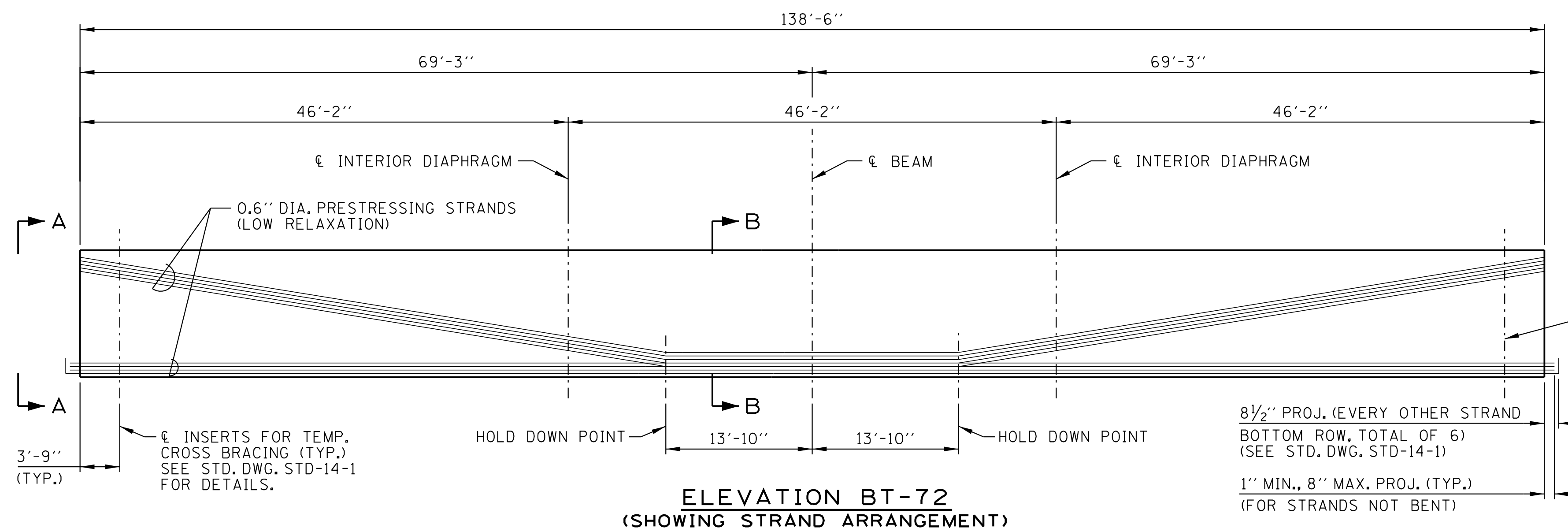
1. SEE STD-14-1 FOR BULB-TEE STANDARD DETAILS AND NOTES.
2. THE CONCRETE FOR THIS CONSTRUCTION SHALL BE OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF NOT LESS THAN 10,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 7,000 PSI. SEE GENERAL NOTES FOR CONCRETE FINISHING NOTES.
3. ALL BEAMS ARE BT-72.
4. ALL STRANDS ARE 0.6" DIA. 270K LOW RELAXATION PRESTRESSING STRANDS. INITIAL PULL = 43,900 LBS.
5. MINIMUM AGE OF BEAMS AT TIME OF POURING SLAB SHALL BE 90 DAYS.

NO. BEAMS REQ'D	PRESTRESSING STRANDS 0.6" DIA. (LOW RELAXATION) LB.	CLASS "A" CONCRETE C.Y.	REINFORCING STEEL LB.
27	4374	27.3	4812



2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

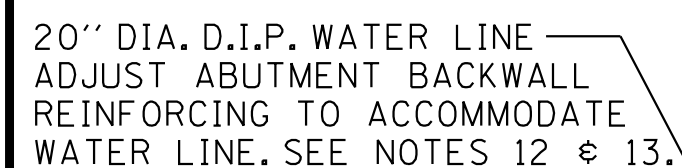
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PRESTRESSED BEAM DETAILS
SPANS 1.2 & 7
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013



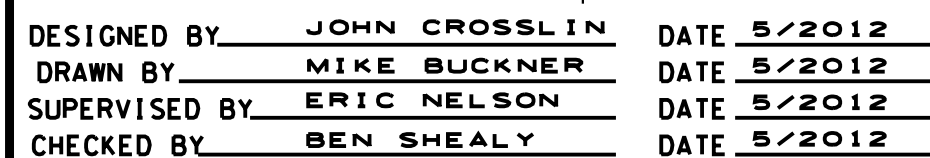
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DESIGNED BY	JOHN CROSSLIN	DATE	5/2002
DRAWN BY	MIKE BUCKNER	DATE	5/2002
SUPERVISED BY	ERIC NELSON	DATE	5/2002
CHECKED BY	BRANC SHELSON	DATE	5/2002

1. SEE DWG. U-46-118 FOR VIEW AA AND VIEW B-B.
SEE DWG. U-46-120 FOR SECTION D-D.
SEE DWG. U-46-119 FOR SECTION F-F.
2. SEE DWG. U-46-116 FOR ABUTMENT NOTES.

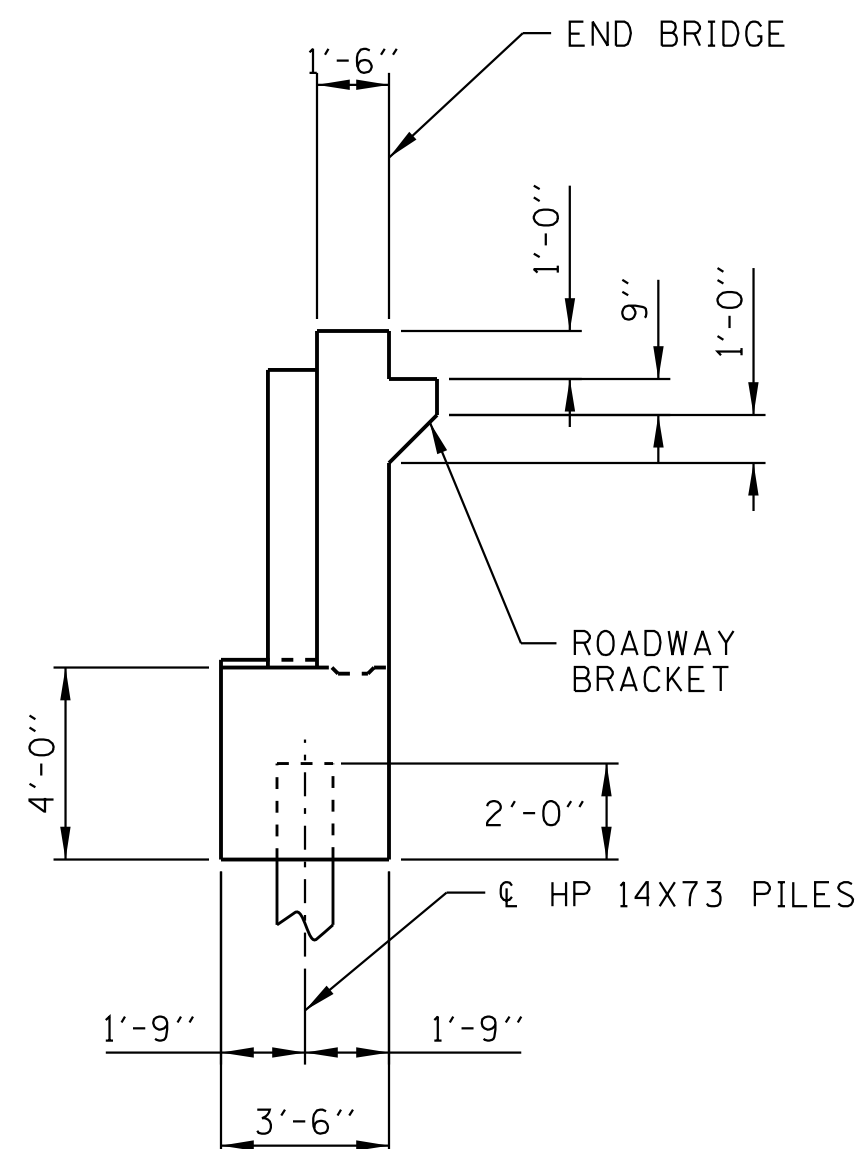
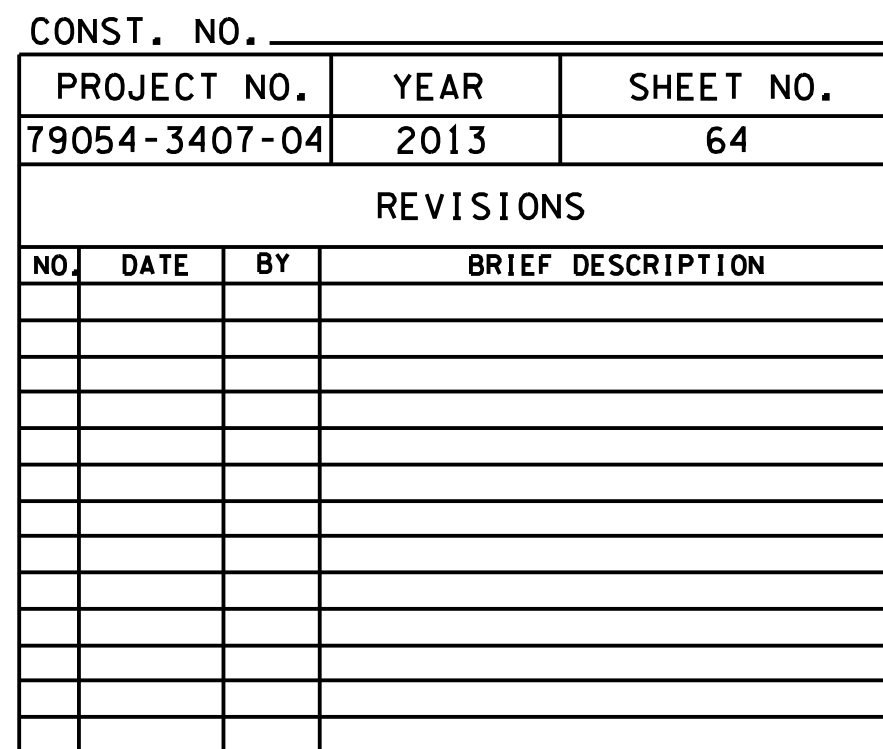


BARS A443 _____
4'-0" IN LENGTH
(8 BARS TOTAL
AT EACH LOCATION)



ELEVATION
(SCALE 1/4"=1'-0")

PILE CUT-OFF ELEVATIONS																
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
236.36	236.44	236.53	236.62	236.71	236.80	236.89	236.98	237.07	236.98	236.89	236.80	236.71	236.62	236.53	236.44	236.36



SECTION THRU ABUTMENT
(SCALE 1/4"=1'-0")

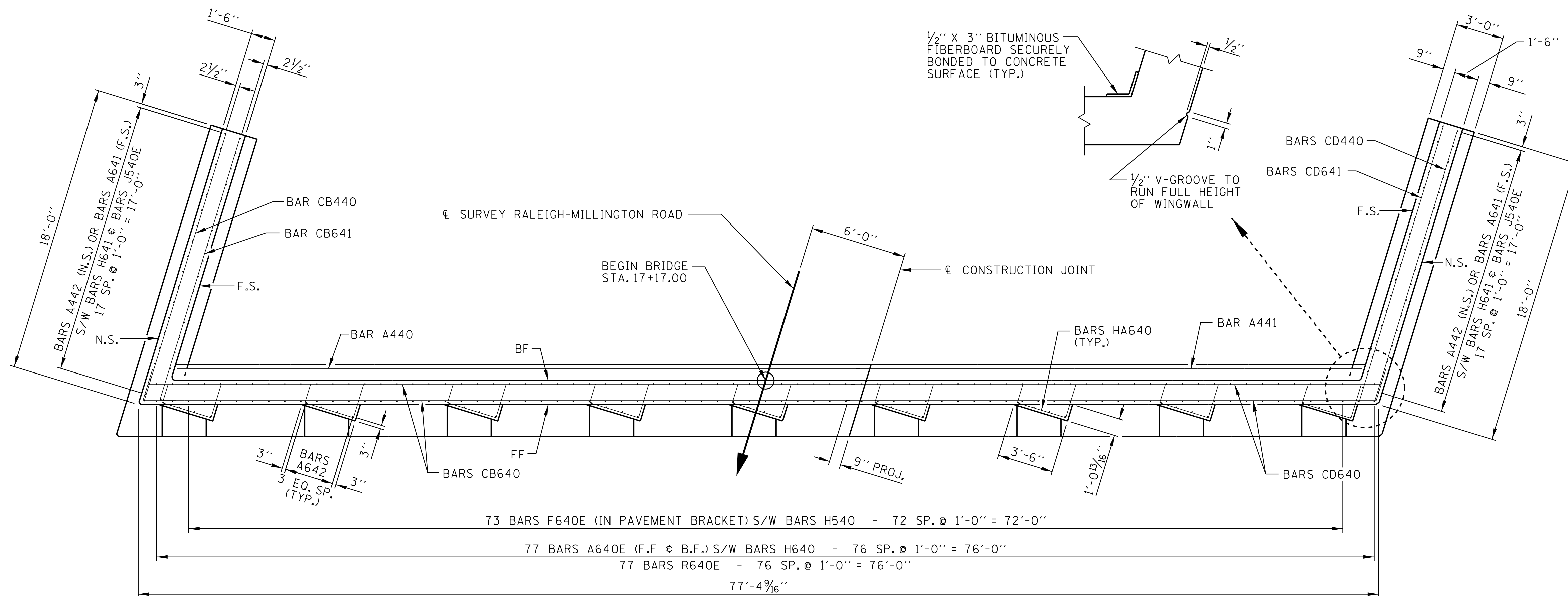
ESTIMATED QUANTITIES		
CLASS 'A' CONCRETE (BRIDGES) C.Y.	STEEL BAR REINFORCING (BRIDGES) LB.	EPOXY COATED REINFORCING STEEL (BRIDGES) LB.
103	3,573	12,962



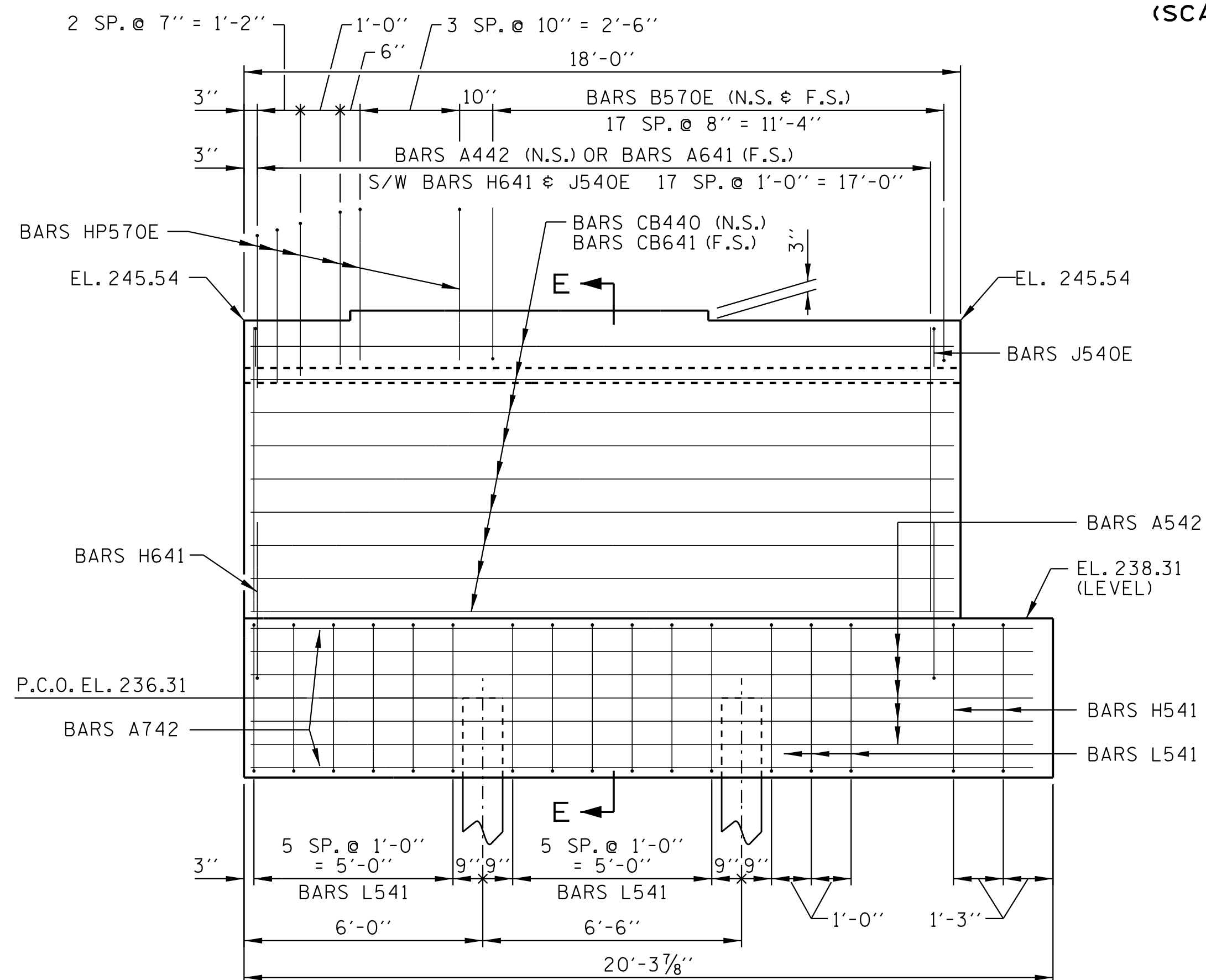
2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

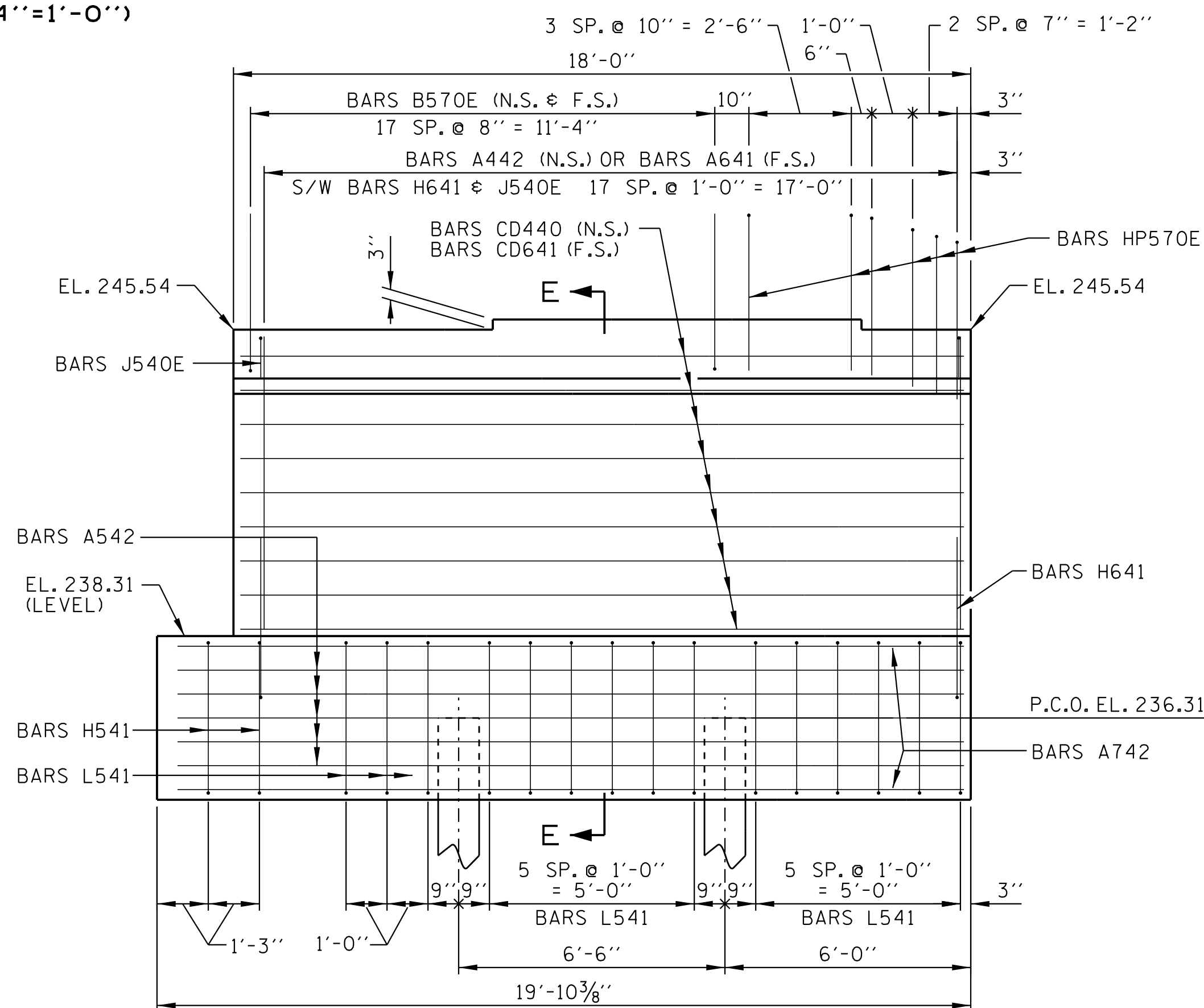
ABUTMENT 2 LAYOUT
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

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SECTION C-C
(SCALE 1/4"=1'-0")



VIEW A-A
(SCALE $\frac{3}{8}''=1'-0''$)



VIEW B-B
(SCALE $\frac{3}{8}''=1'-0''$)

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

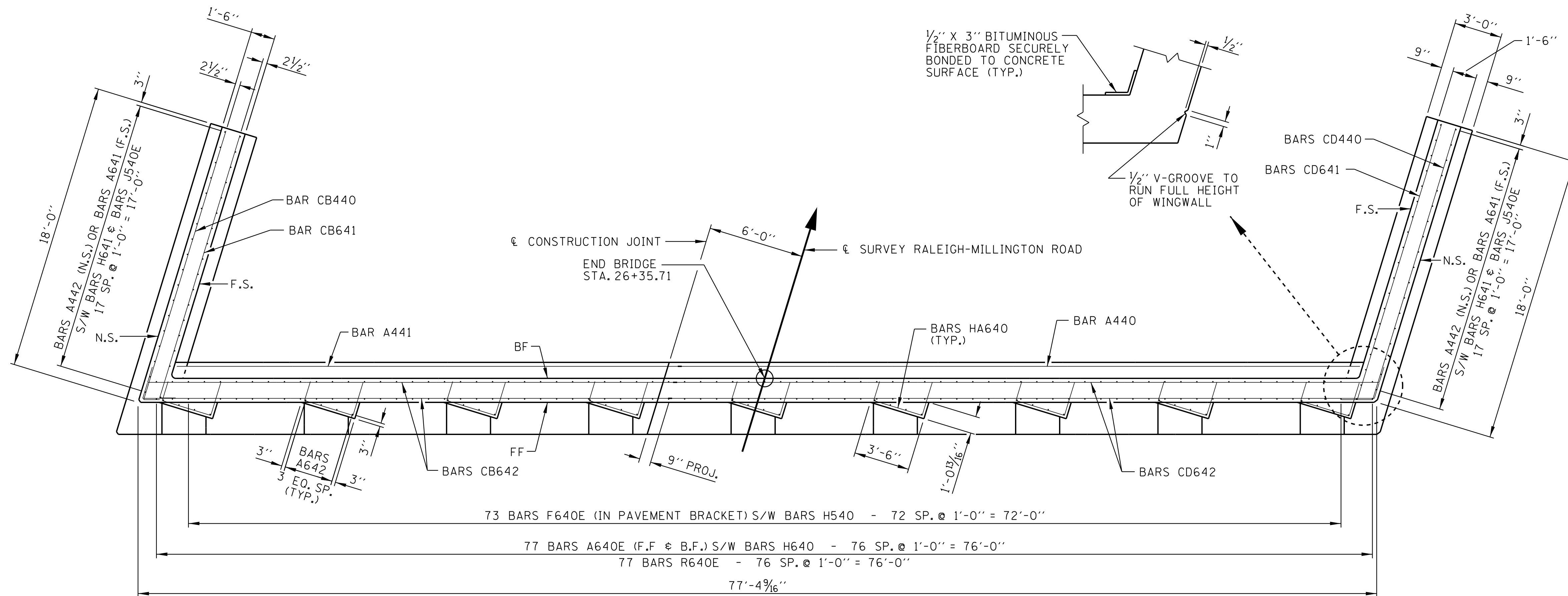
ABUTMENT DETAILS I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

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DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012

NOTE:
SEE DWG. U-46-120 FOR SECTION E-E.

U-46-118

[illegible]

SECTION F-F
(SCALE 1/4"=1'-0")

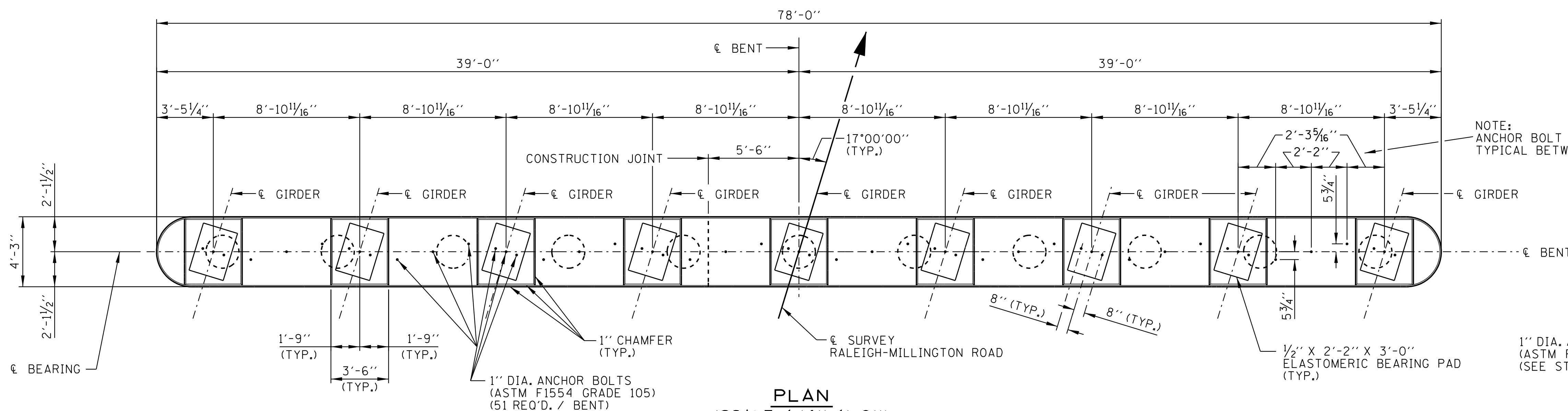


2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

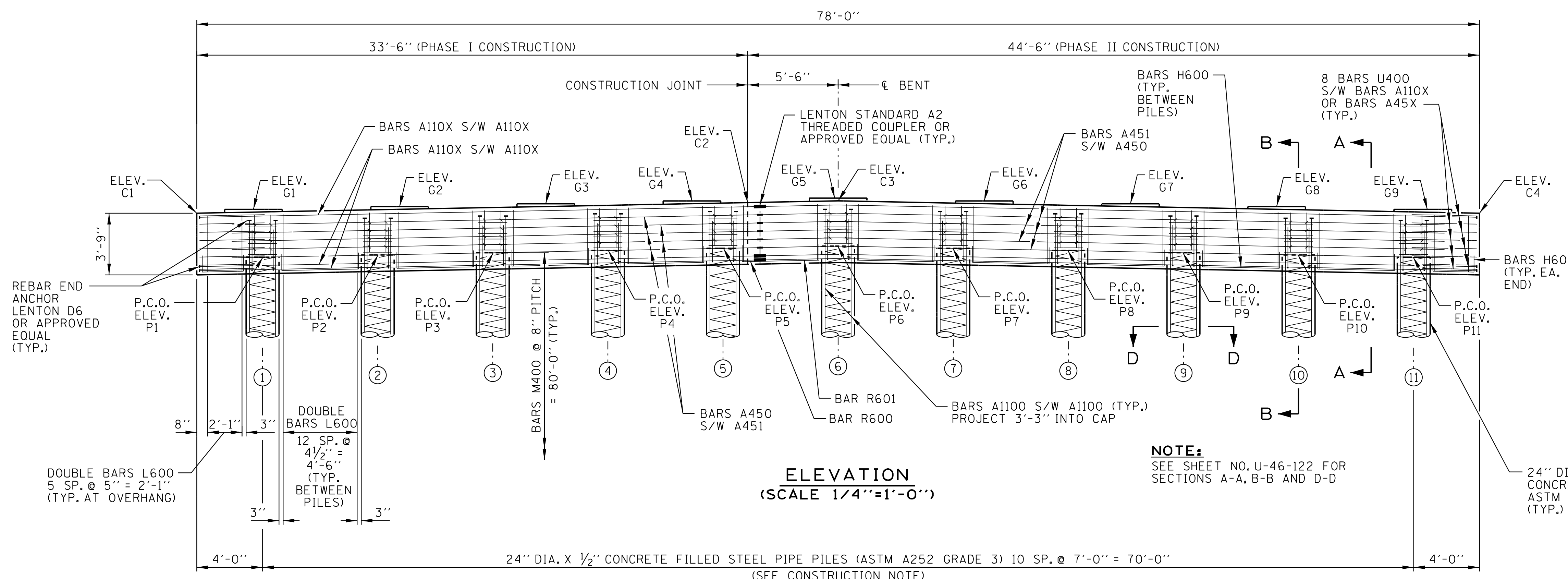
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS II
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

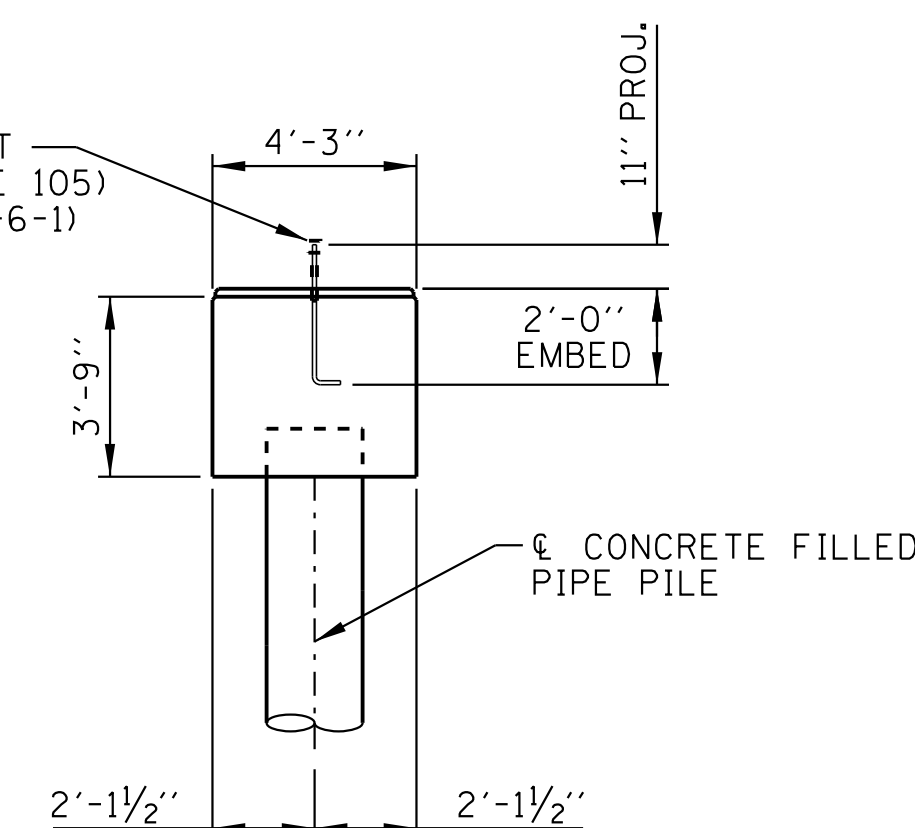
DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012

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PLAN
(SCALE $1/4''=1'-0''$)



ELEVATION
(SCALE 1/4"=1'-0")



END ELEVATION
(SCALE 1/4"=1'-0")

CONSTRUCTION NOTE:

PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL LOCATE ALL EXISTING PILES IN RELATION TO THE PROPOSED PILES, ALSO EXPOSE EXISTING UTILITIES IN THE AREAS WHERE PILES ARE TO BE DRIVEN.

PROPOSED PILES MAY BE SHIFTED UP TO 2'-0" (MAXIMUM CENTER-TO-CENTER SPACING OF ADJACENT PILES SHALL BE 9'-0") TO AVOID THE EXISTING PILES. MINIMUM CLEAR DISTANCE BETWEEN EDGES OF PROPOSED AND EXISTING PILES SHALL BE 3".

IF IT IS NECESSARY TO SHIFT THE PROPOSED PILES MORE THAN
2'-0". CONTACT THE ENGINEER OF RECORD FOR DIRECTION.

24" DIA. X 1/2" WALL
CONCRETE FILLED STEEL PIPE PILES
ASTM A252 GRADE 3
(TYP.)



NOTES

1. ELASTOMERIC BEARING PADS SHALL BE IN PLACE A MINIMUM OF ONE DAY BEFORE BEING DISTURBED BY SETTING BEAMS ON CONCRETE. PLACE RUBBER BONDING CEMENT IN SUCH A WAY THAT VISIBLE CONCRETE SURFACES WILL NOT BE STAINED.
2. WHEN POURING CAP BEAM PROVISIONS SHALL BE MADE FOR SETTING ANCHOR BOLTS. SEE STD. DWG. STD-6-1. BOLT PROJECTION IS 11".
3. RISER BLOCKS TO BE POURED MONOLITHICALLY WITH CAP BEAM.
4. RISER BLOCK BEARING PAD SURFACE TO CONFORM TO BOTTOM OF BEAM GRADE.
5. SEE STD. DWG. STD-6-1 FOR PILE DETAILS AND NOTES.
6. SEE STD. DWG. STD-5-2 FOR DETAILS OF REQUIRED CONCRETE COLLARS ON PILES AND GENERAL NOTES FOR EXCEPTIONS AT BENTS 1 AND 2.
7. PROJECT BARS A110X @ A450 9" INTO PHASE II CONSTRUCTION.
8. PIPE PILES TO BE FILLED WITH 3000 PSI CLASS 'A' CONCRETE TO THE ELEVATION SHOWN IN THE PILE DATA TABLE ON DWG. U-46-101.
9. ALL ANCHOR BOLTS ARE TO BE ASTM F1554 GRADE 105. (TOTAL OF 51 ANCHOR BOLTS PER BENT)
10. BARS A1100 ARE TO HAVE A MINIMUM LAP OF 9'-8".
11. COSTS FOR REBAR END ANCHORS AND COUPLERS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF OTHER ITEMS.

ESTIMATED QUANTITIES	
CLASS 'A' CONCRETE (BRIDGES) (C.Y.)	REINFORCING STEEL (BRIDGES) (LB.)
139	83,579

TABLE OF ELEVATIONS	
LOCATION	ELEVATION
C1	238.32
C2	238.96
C3	239.07
C4	238.32

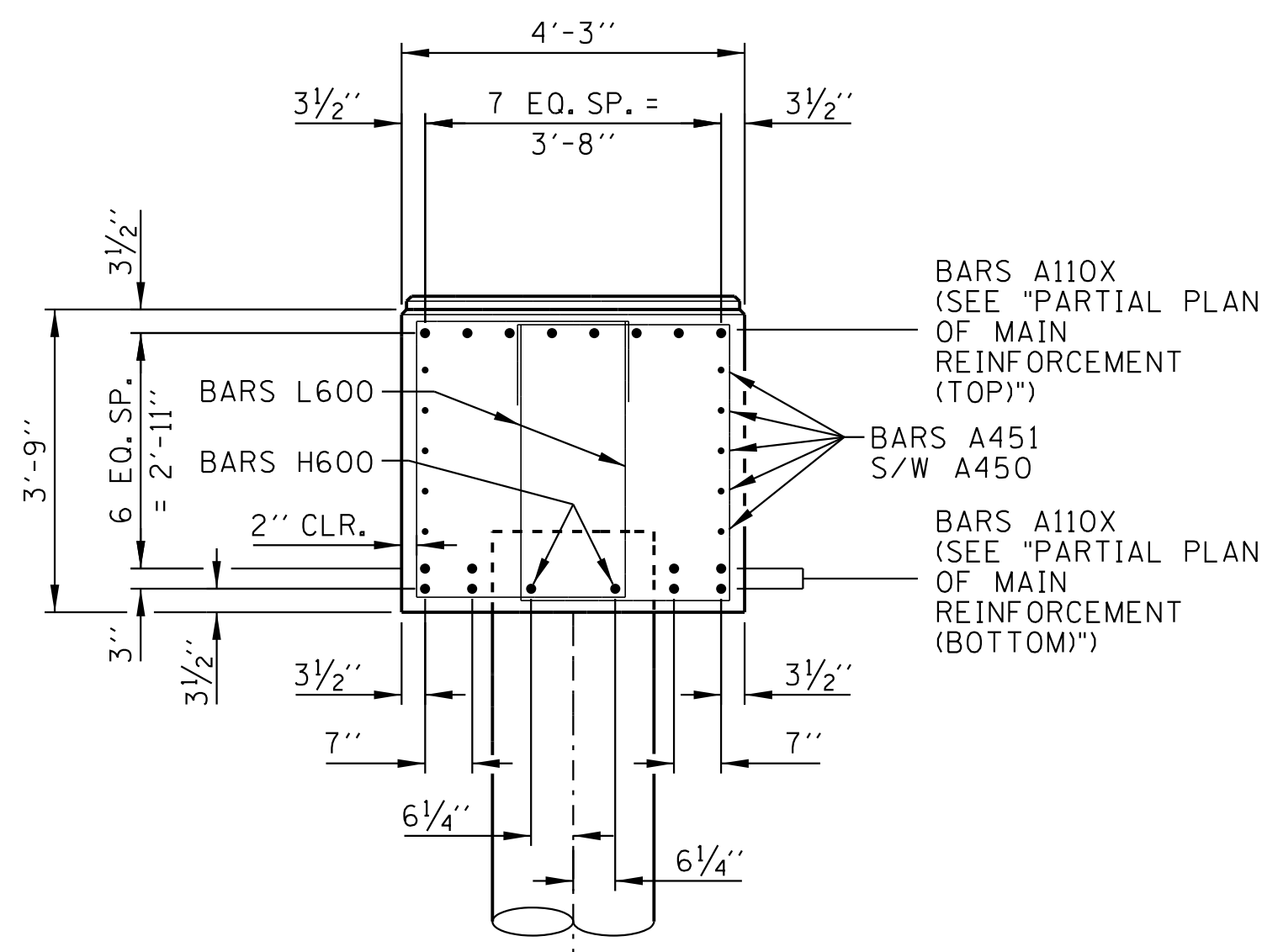
TABLE OF ELEVATIONS	
LOCATION	ELEVATION
G1	238.56
G2	238.73
G3	238.90
G4	239.07
G5	239.24
G6	239.07
G7	238.90
G8	238.73
G9	238.56

TABLE OF ELEVATIONS	
LOCATION	ELEVATION
P1	235.65
P2	235.78
P3	235.92
P4	236.05
P5	236.19
P6	236.32
P7	236.19
P8	236.05
P9	235.92
P10	235.78
P11	235.65

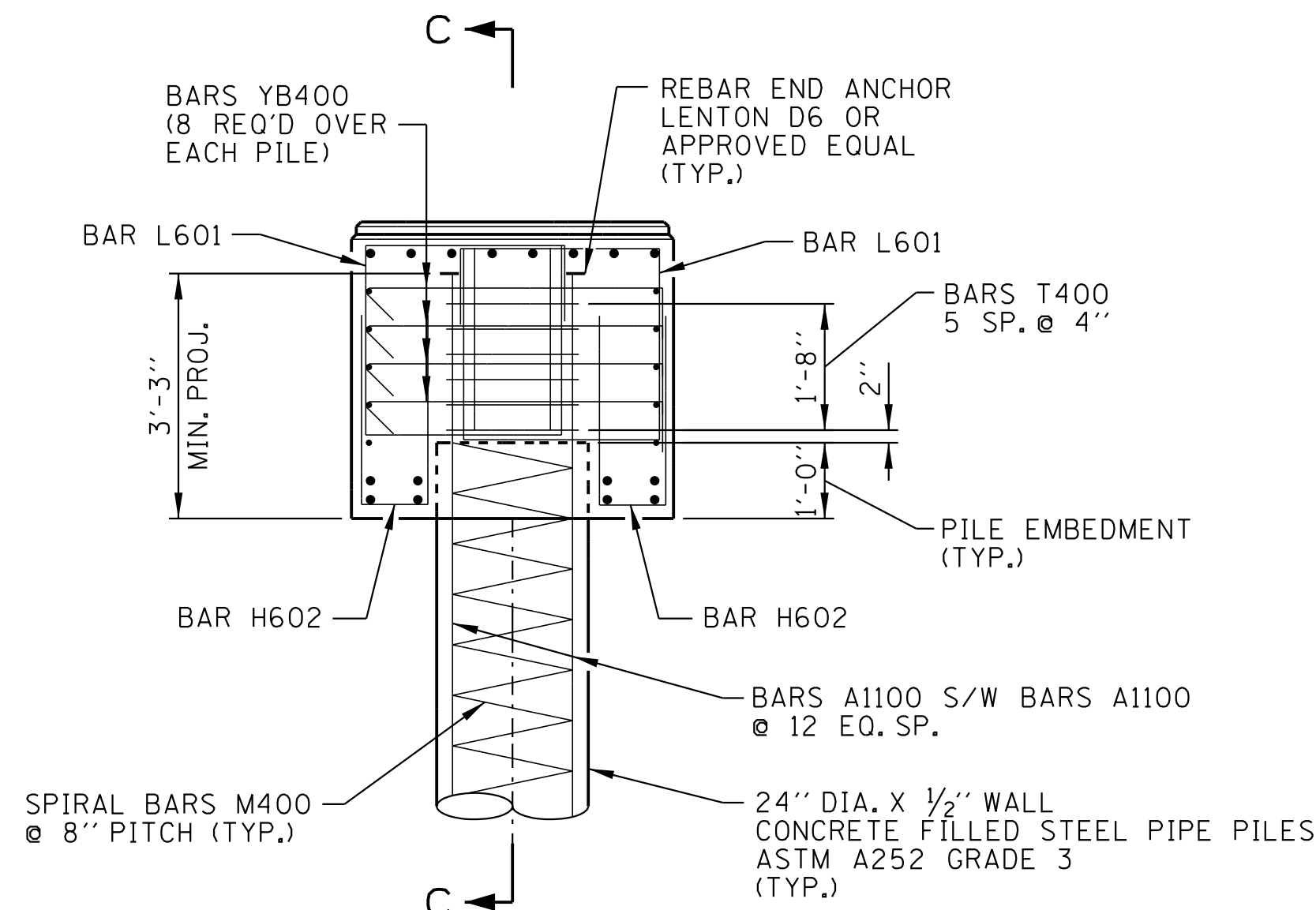
2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

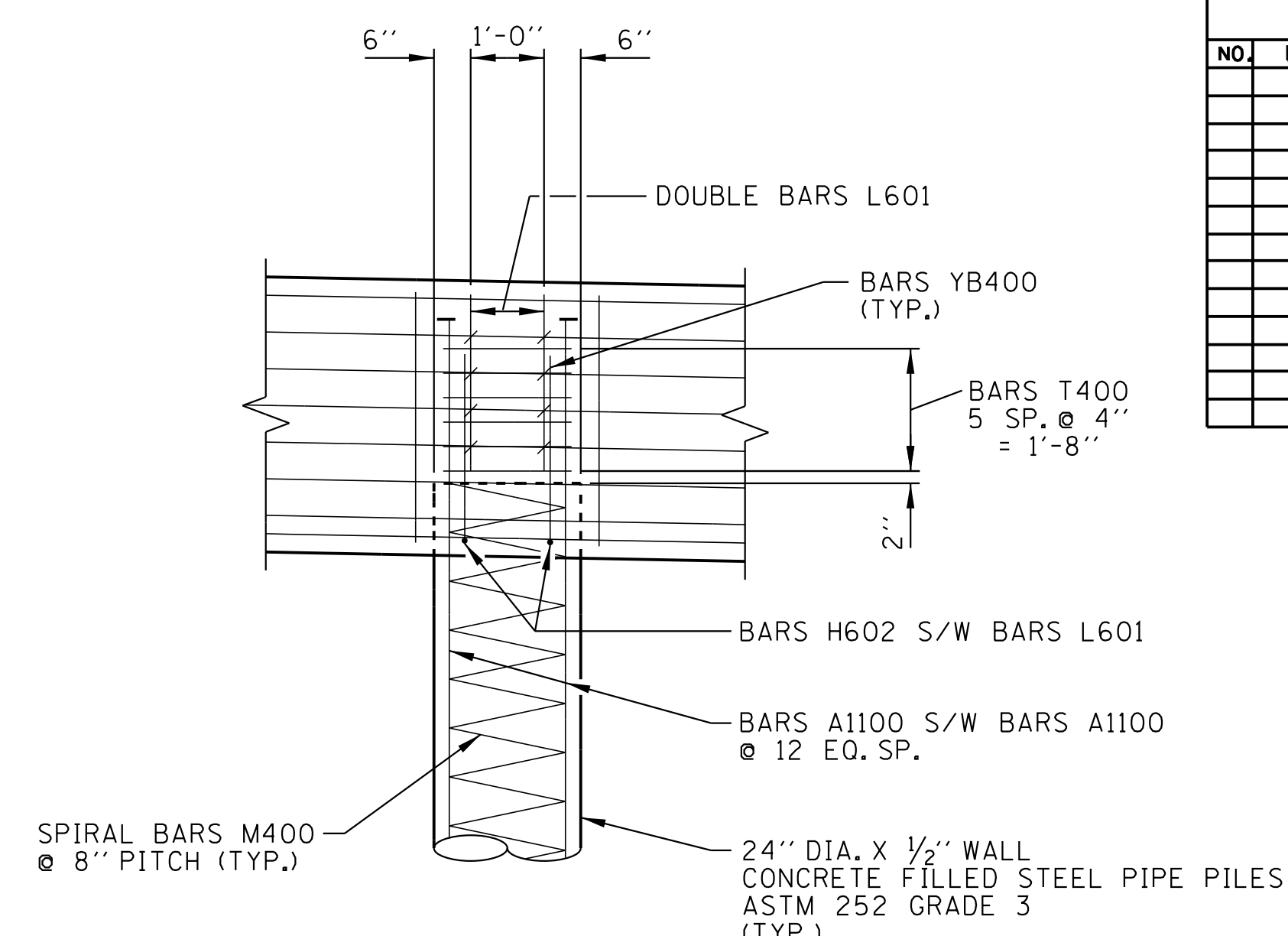
BENTS 1-6 - LAYOUT
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

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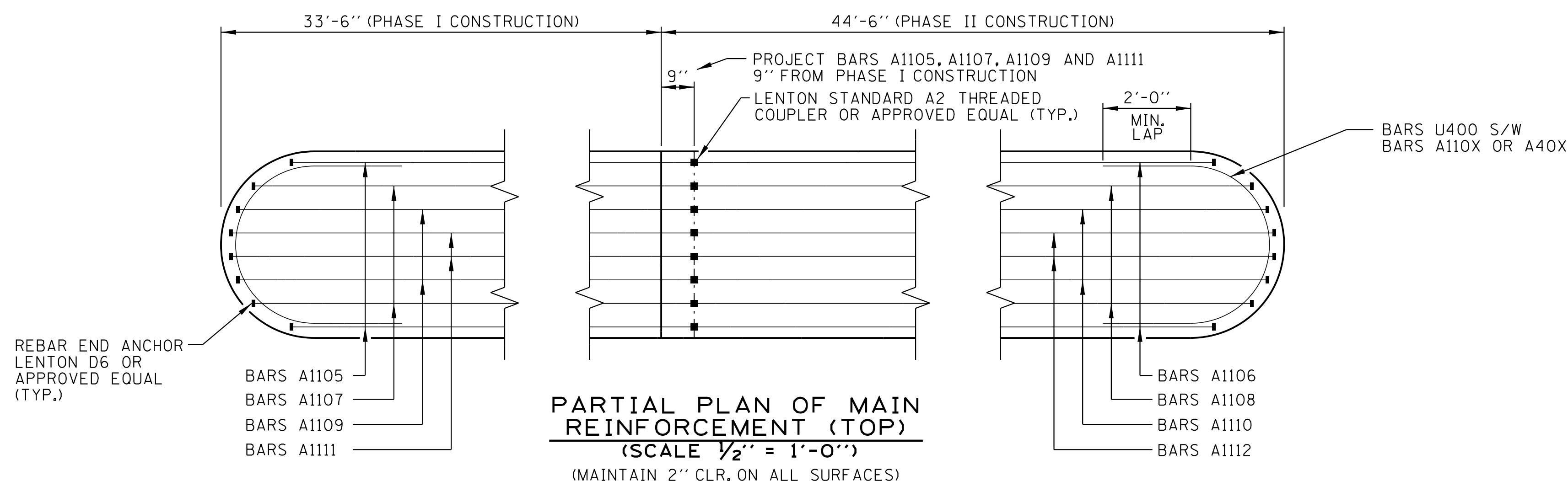
SECTION A-A
(SCALE $\frac{1}{2}'' = 1'-0''$)



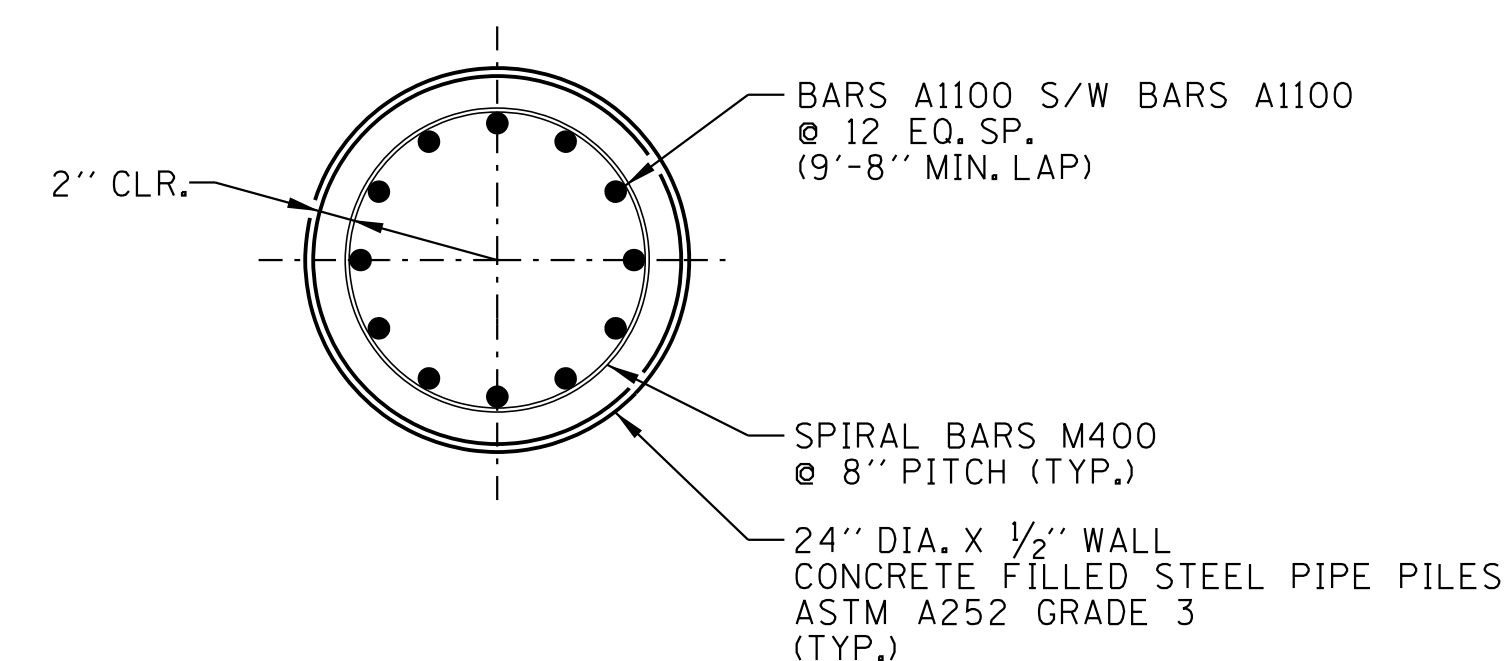
SECTION B-B
(SCALE $\frac{1}{2}'' = 1'-0''$)



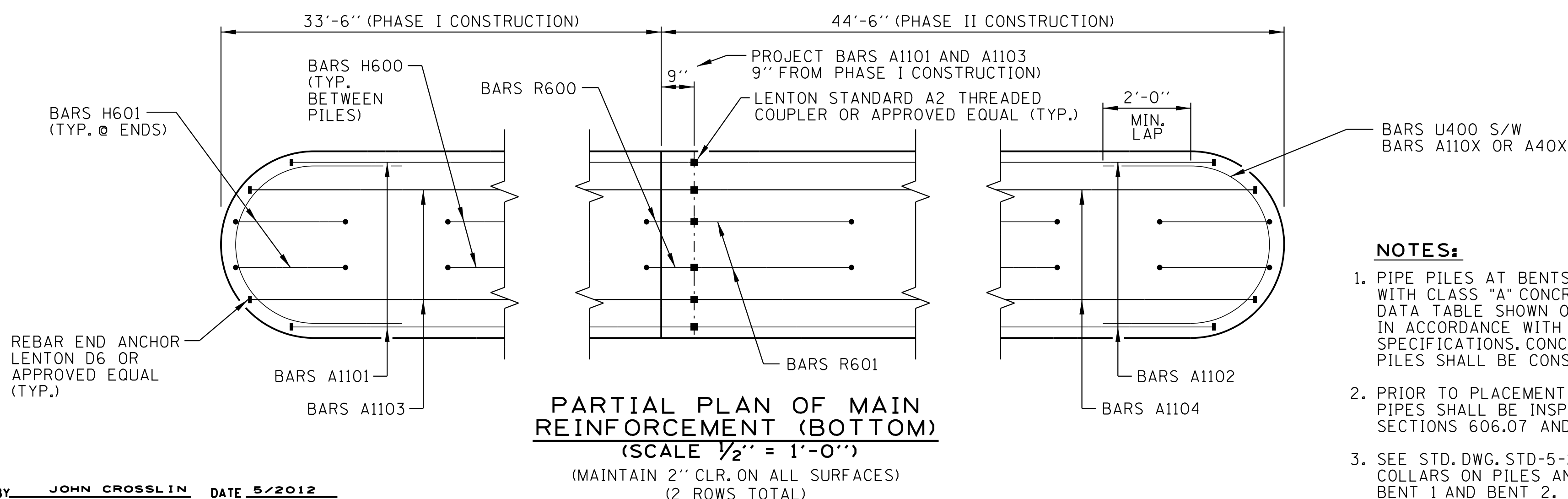
SECTION C-C
(SCALE 1/2" = 1'-0")



PARTIAL PLAN OF MAIN
REINFORCEMENT (TOP)
(SCALE 1/2" = 1'-0")
(MAINTAIN 2" CLR. ON ALL SURFACES)



SECTION D-D
(SCALE 1/2" = 1'-0")



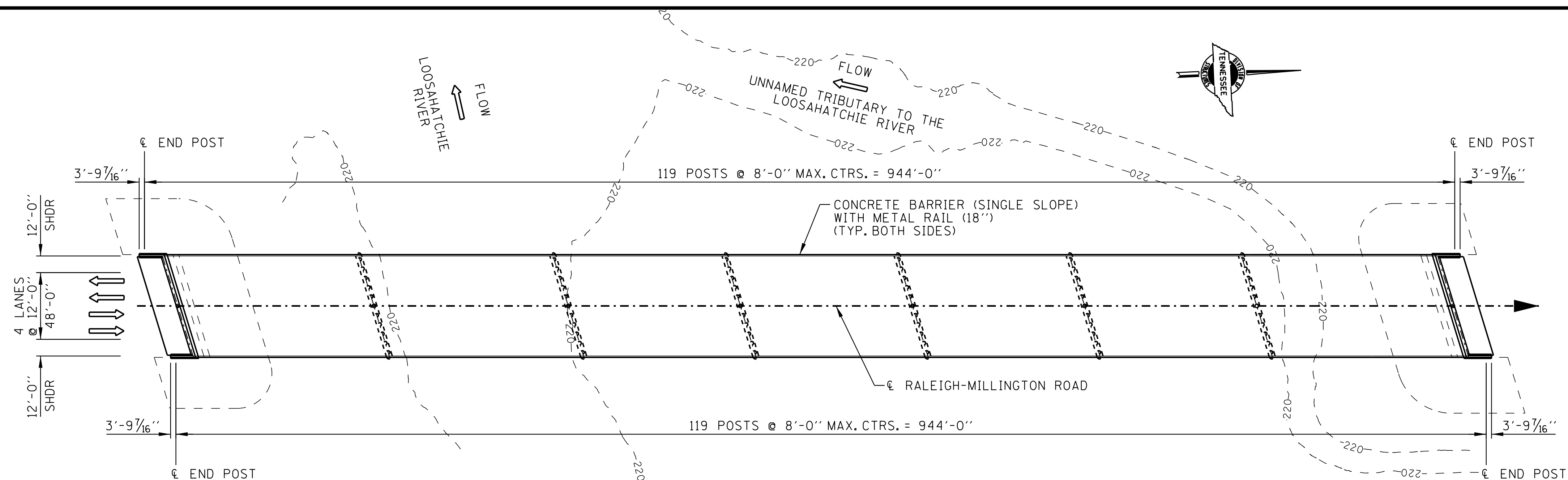
**PARTIAL PLAN OF MAIN
REINFORCEMENT (BOTTOM)**
(SCALE 1/2" = 1'-0")
(MAINTAIN 2" CLR. ON ALL SURFACES)
(2 ROWS TOTAL)

1. PIPE PILES AT BENTS SHALL BE DRIVEN OPEN-ENDED AND FILLED WITH CLASS "A" CONCRETE TO THE ELEVATION SHOWN IN THE PILE DATA TABLE SHOWN ON DWG. U-46-101. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH SECTION 606.07 OF THE STANDARD SPECIFICATIONS. CONCRETE IN THE UPPER 25 FEET OF THE PIPE PILES SHALL BE CONSOLIDATED WITH VIBRATORS.
2. PRIOR TO PLACEMENT OF CONCRETE IN THE PIPE PILES, INSIDE OF PILES SHALL BE INSPECTED AND CLEANED IN ACCORDANCE WITH SECTIONS 606.07 AND 606.15 OF THE STANDARD SPECIFICATIONS.
3. SEE STD. DWG. STD-5-2 FOR DETAILS OF REQUIRED CONCRETE COLLARS ON PILES AND GENERAL NOTES FOR EXCEPTIONS AT BENT 1 AND BENT 2.

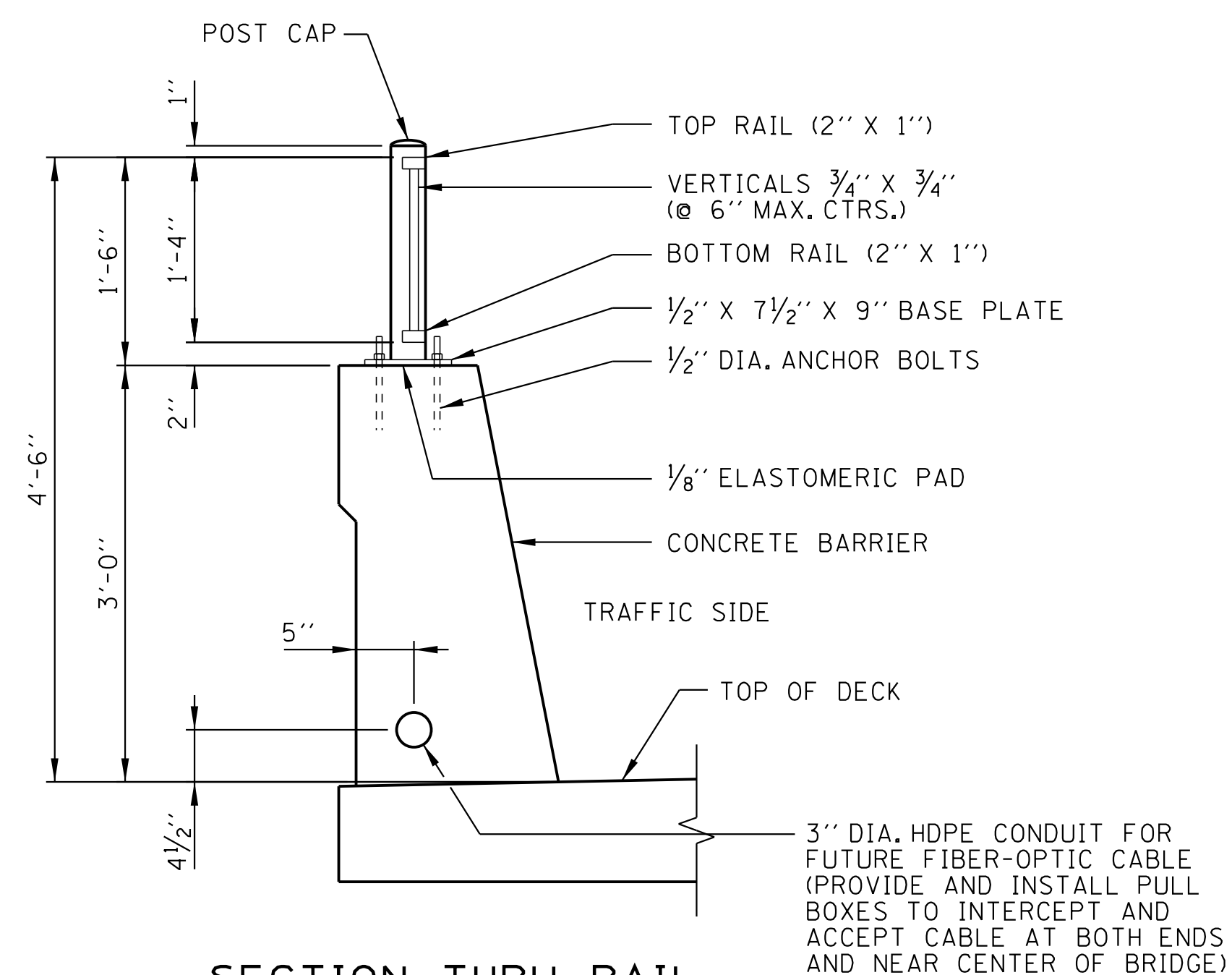
2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

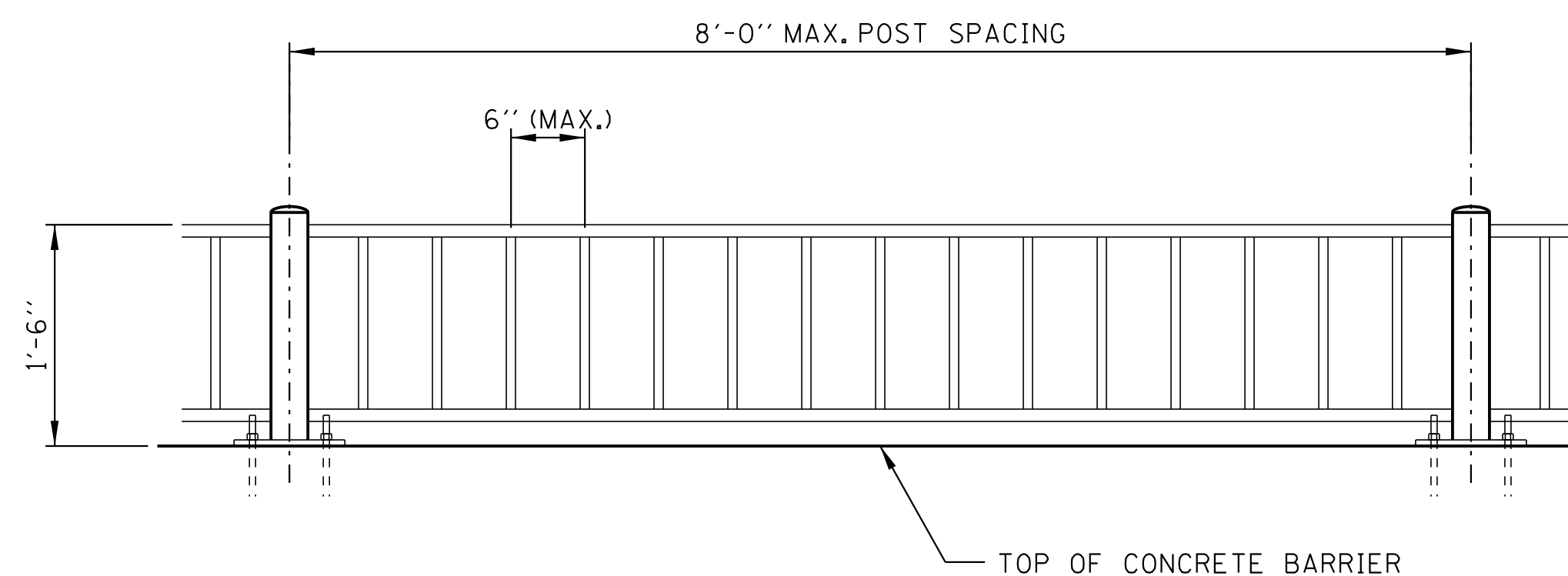
BENTS 1-6 - DETAILS
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

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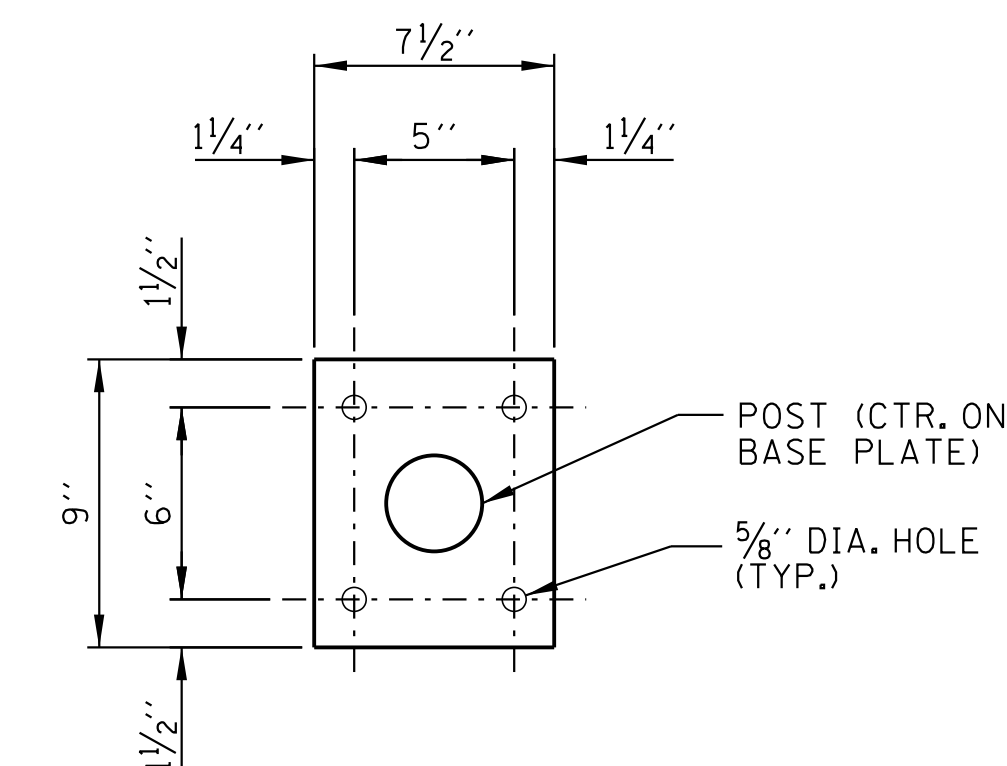
PLAN
(SCALE 1"=50')



SECTION THRU RAIL
(SCALE 1"=1'-0")

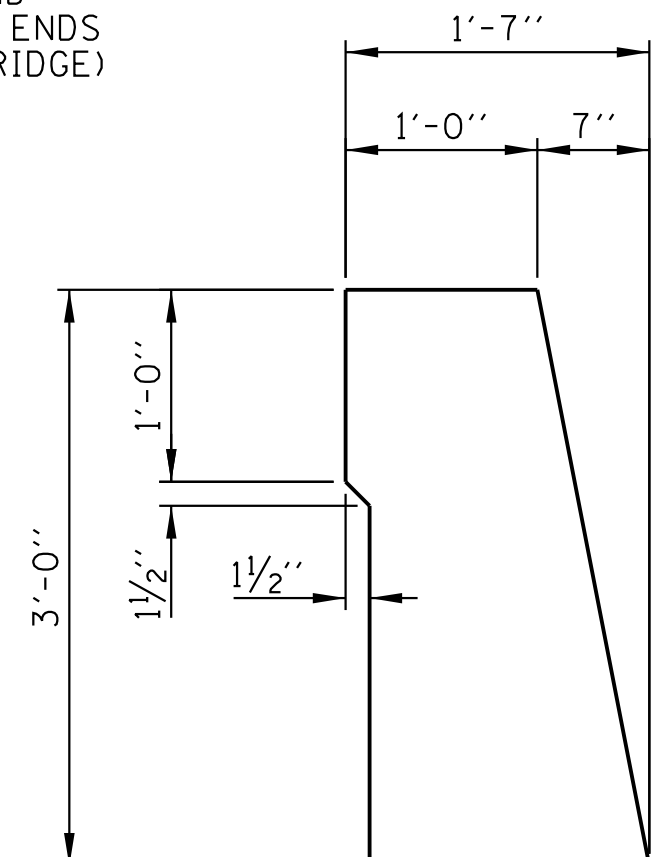


ELEVATION
(SCALE 1"=1'-0")

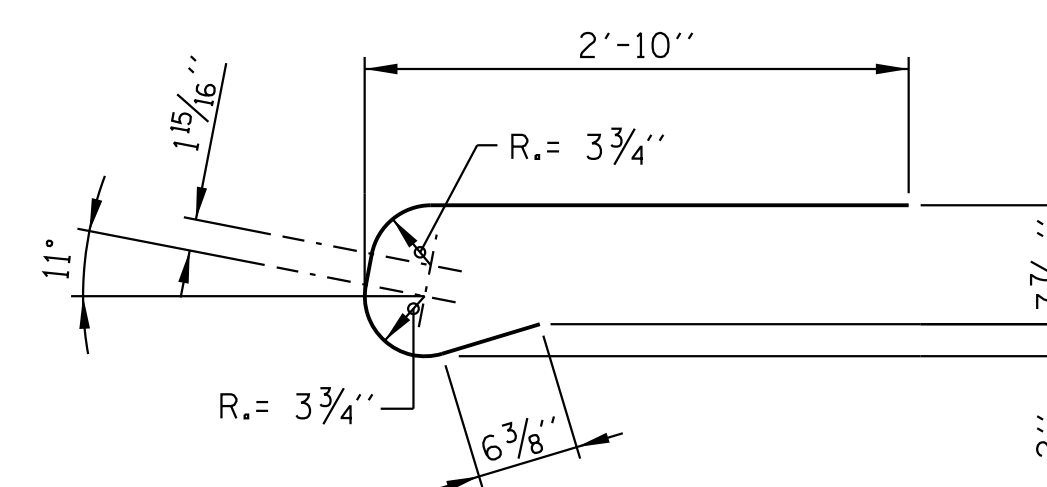


PLAN OF BASE PLATE
(SCALE 2''=1'-0'')

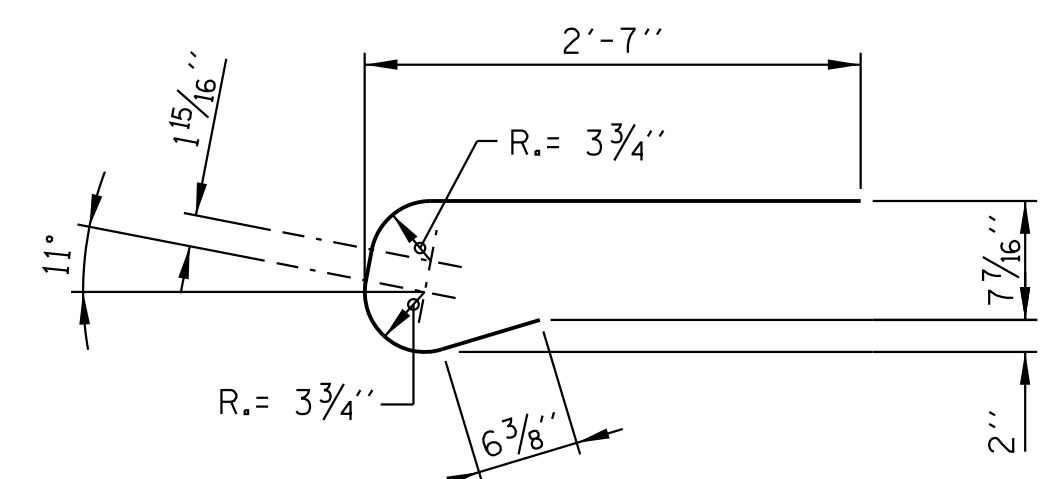
1. RAIL MATERIAL SHALL BE BLACK POWDER COATED WROUGHT IRON.
2. RAIL SECTIONS AND POSTS SHALL MEET ALL LOADING REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS ARTICLE 13.9.3.
3. CONTRACTOR SHALL SUBMIT DETAILS OF RAIL AND POSTS TO THE ENGINEER FOR APPROVAL.
4. CONTRACTOR MAY PROPOSE ALTERNATE ATTACHMENT DETAILS.
5. THE POST AND ANCHOR PLATE SHALL BE FABRICATED SO THAT THE POST IS VERTICAL TRANSVERSELY AND LONGITUDINALLY.
6. SEE DETAILS THIS SHEET FOR RAIL LIMITS AT BRIDGE ENDS.
7. EXPANSION JOINTS IN RAILS SHALL BE PLACED AT 32'-0" (+/-) CTRS.
8. SINGLE SLOPE CONCRETE PARAPET (STD-1-1SS) IS TO BE MODIFIED TO BE 1'-0" WIDE AT TOP. SEE DETAIL "A". BARS BD500E AND BD501E ARE TO BE FABRICATED FROM SPECIAL DETAIL AS SHOWN ON THIS SHEET AND SUBSTITUTED FOR BARS BD500E AND BD501E SHOWN ON STD. DWG. STD-1-1SS.



DETAIL "A"
(SCALE 1"=1'-0")



BD500E
SPECIAL DETAIL
(SEE NOTE 8)



BD501E
SPECIAL DETAIL
(SEE NOTE 8)

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WROUGHT IRON RAILING DETAILS
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

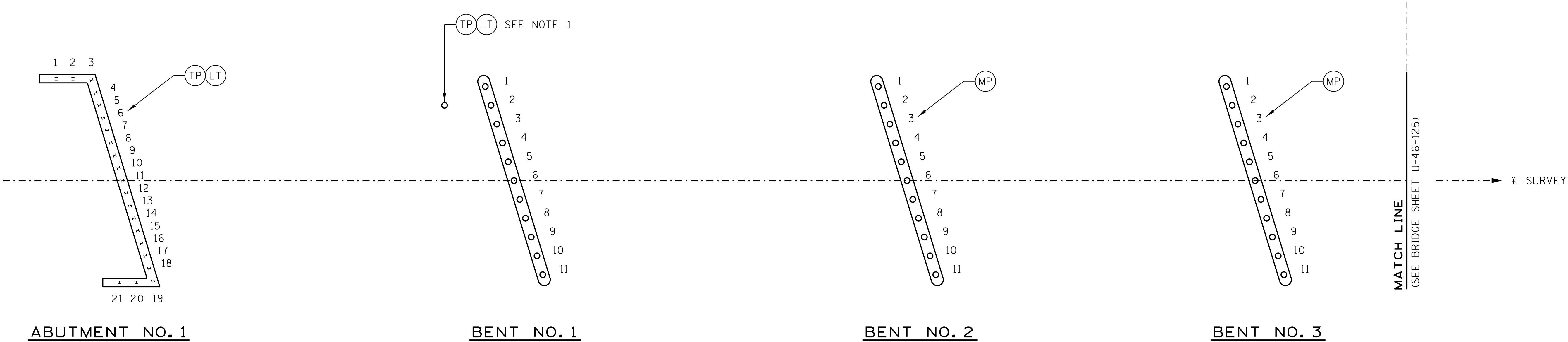
ABUTMENT NO. 1	PILE CUT-OFF ELEV.	1	2	3	4	5	6	7	8	9	10	11
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											

ABUTMENT NO. 1	PILE CUT-OFF ELEV.	12	13	14	15	16	17	18	19	20	21
	PILE TIP ELEV.										
	IN PLACE PILE LENGTH										

NOTE 1

LOCATION OF OUT-OF-POSITION TEST PIPE PILE NEAR BENT 1 TO BE SELECTED BY CONTRACTOR, AS APPROVED BY ENGINEER. TEST PILE SHALL BE DRIVEN TO SAME CRITERIA SHOWN FOR BENT 1 IN PILE DATA TABLE ON DRAWING U-46-101. AT COMPLETION OF ALL TESTS, PILE SHALL BE CUT OFF TO AN ELEVATION 2'-0" BELOW NATURAL GROUND.

CONST. NO.			
PROJECT NO.		YEAR	SHEET NO.
79054-3407-04		2013	71
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



BENT NO. 1	PILE CUT-OFF ELEV.	1	2	3	4	5	6	7	8	9	10	11
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											
BENT NO. 2	PILE CUT-OFF ELEV.											
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											
BENT NO. 3	PILE CUT-OFF ELEV.											
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											

- TP TEST PILE
- LT LOAD TEST
- MP MONITOR PILE WITH PDA IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

NOTE TO CONTRACTOR AND CONSTRUCTION OFFICE

THE BLANKS ON THIS SHEET ARE TO BE FILLED IN BY THE CONSTRUCTION OFFICE AND/OR FIELD ENGINEER GIVING AS-BUILT CONDITIONS, AFTER COMPLETION. IT IS TO BE SENT TO THE DIVISION OF STRUCTURES TO BECOME PART OF THE FINAL BRIDGE DOCUMENTS.

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

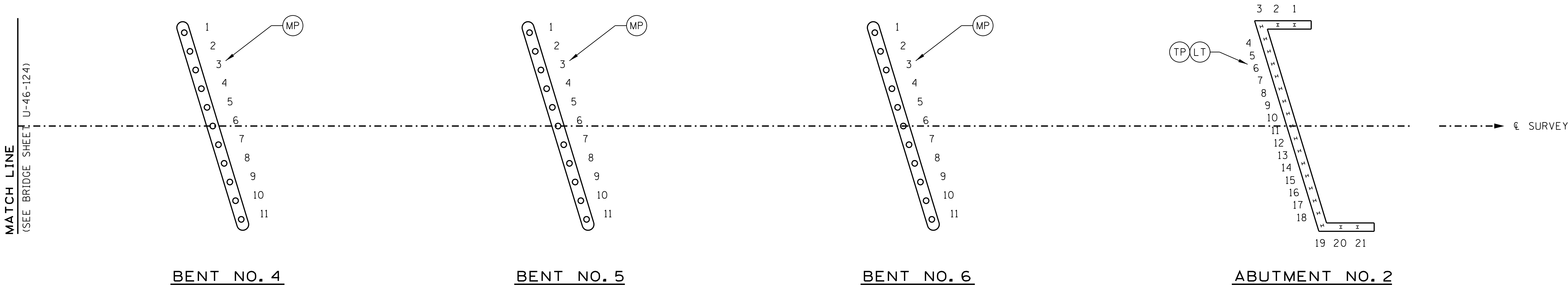
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINAL FOUNDATION DATA I
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

CONST. NO.			
PROJECT NO.		YEAR	SHEET NO.
79054-3407-04		2013	72
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

ABUTMENT NO. 2	PILE CUT-OFF ELEV.	1	2	3	4	5	6	7	8	9	10	11
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											

ABUTMENT NO. 2	PILE CUT-OFF ELEV.	12	13	14	15	16	17	18	19	20	21
	PILE TIP ELEV.										
	IN PLACE PILE LENGTH										



BENT NO. 4	PILE CUT-OFF ELEV.	1	2	3	4	5	6	7	8	9	10	11
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											
BENT NO. 5	PILE CUT-OFF ELEV.											
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											
BENT NO. 6	PILE CUT-OFF ELEV.											
	PILE TIP ELEV.											
	IN PLACE PILE LENGTH											

- (TP) TEST PILE
(LT) LOAD TEST
(MP) MONITOR PILE WITH PDA IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FINAL FOUNDATION DATA II
RALEIGH-MILLINGTON ROAD
OVER THE LOOSAHATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

NOTE TO CONTRACTOR AND CONSTRUCTION OFFICE
THE BLANKS ON THIS SHEET ARE TO BE FILLED IN BY THE CONSTRUCTION OFFICE AND/OR FIELD ENGINEER GIVING AS-BUILT CONDITIONS, AFTER COMPLETION. IT IS TO BE SENT TO THE DIVISION OF STRUCTURES TO BECOME PART OF THE FINAL BRIDGE DOCUMENTS.

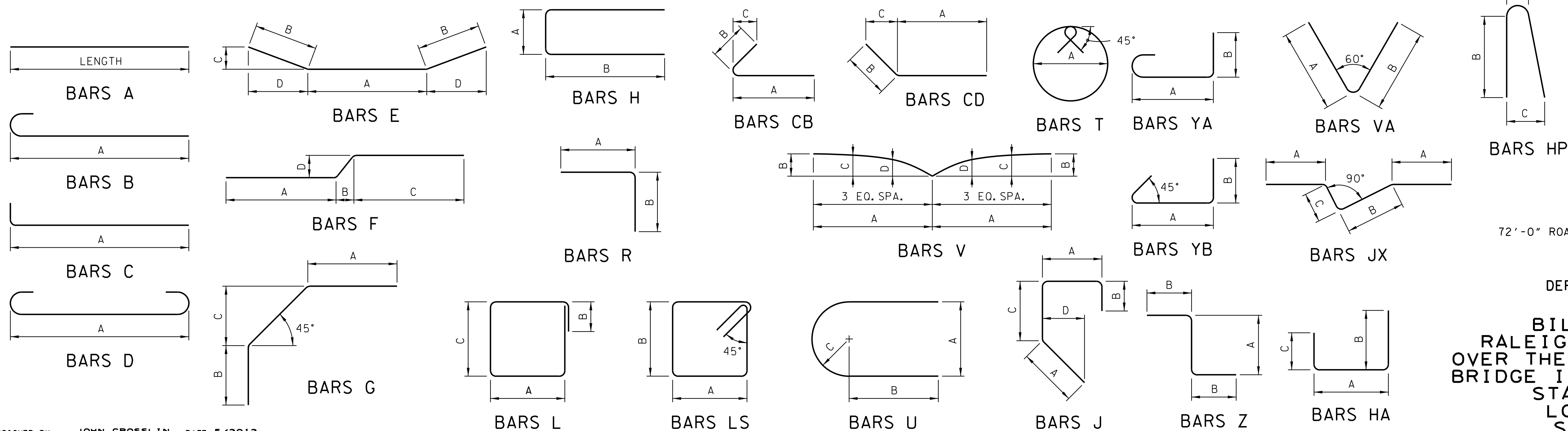
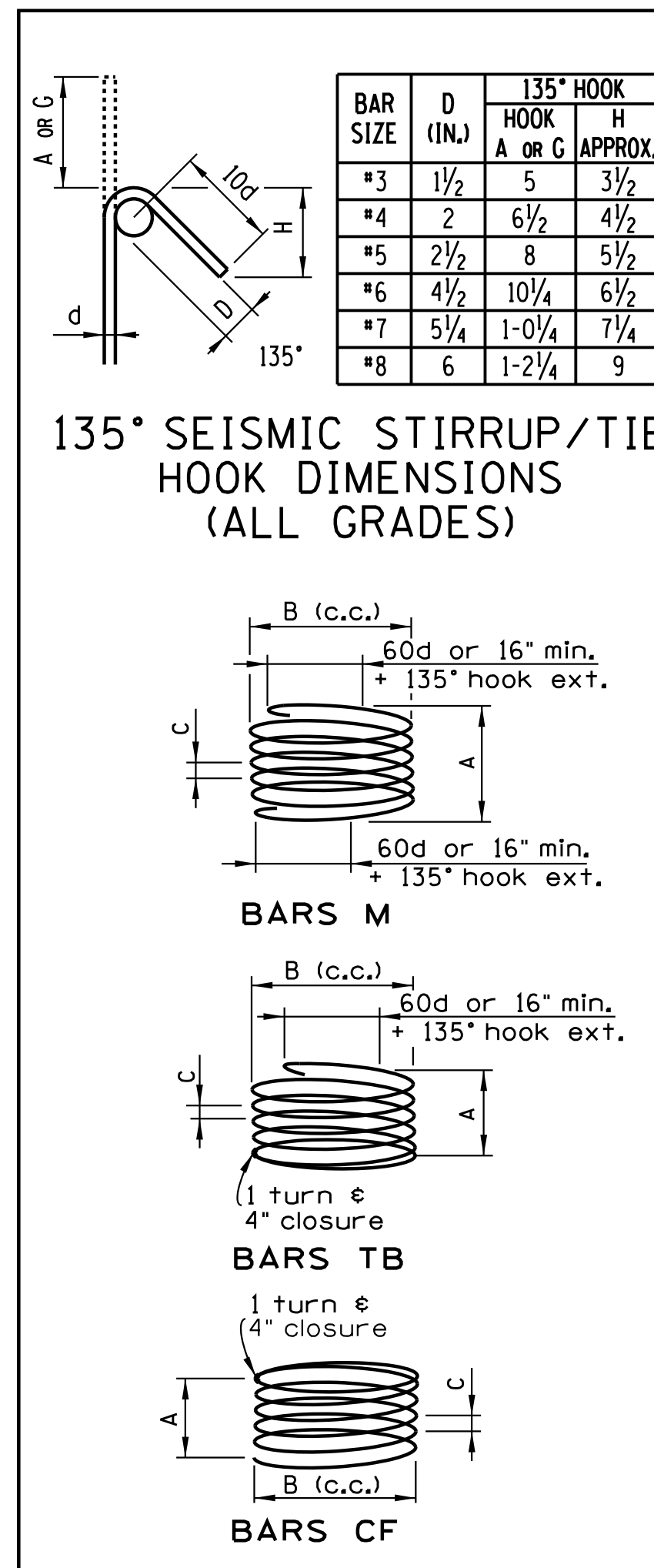
DESIGNED BY: JOHN CROSSLIN DATE: 5/2012
DRAWN BY: MIKE BUCKNER DATE: 5/2012
SUPERVISED BY: ERIC NELSON DATE: 5/2012
CHECKED BY: BEN SHEALY DATE: 5/2012

[illegible]

TYPE	SIZE	SERIES
A	5	06

NOTE: DIMENSIONS SHOWN ON THIS SHEET ARE OUTSIDE TO OUTSIDE OF BAR. STANDARD C.R.S.I. HOOK DETAILS SHALL APPLY, EXCEPT AS NOTED.

NOTE: THE SUFFIX E FOR BARS SO MARKED DENOTES EPOXY COATED REINFORCEMENT.

[illegible]

DESIGNED BY	JOHN CROSSLIN	DATE	5/2012
DRAWN BY	MIKE BUCKNER	DATE	5/2012
SUPERVISED BY	ERIC NELSON	DATE	5/2012
CHECKED BY	BEN SHEALY	DATE	5/2012

2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

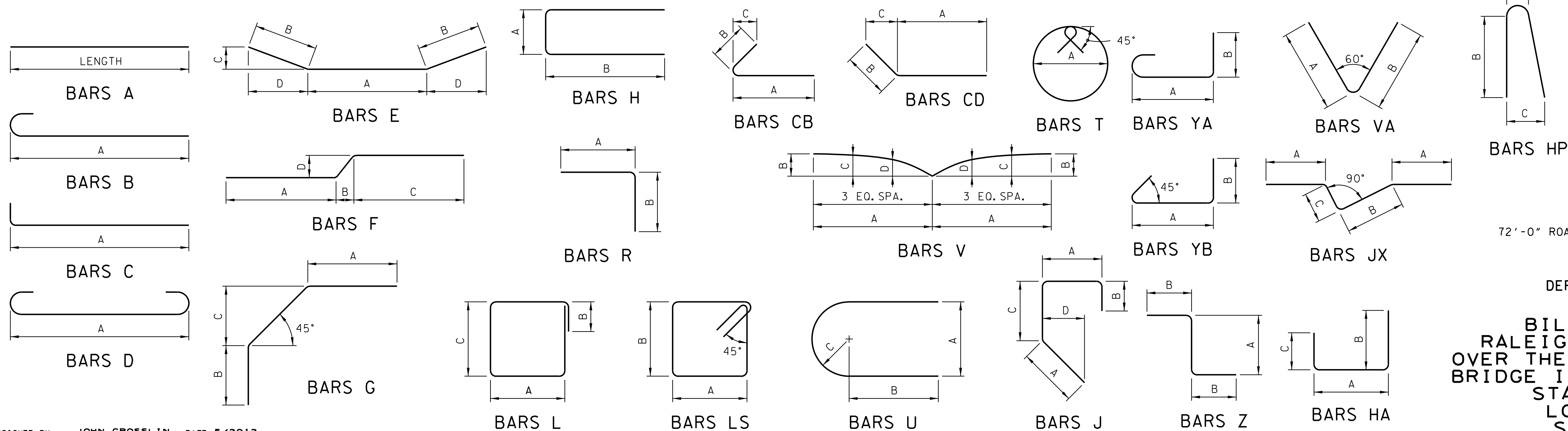
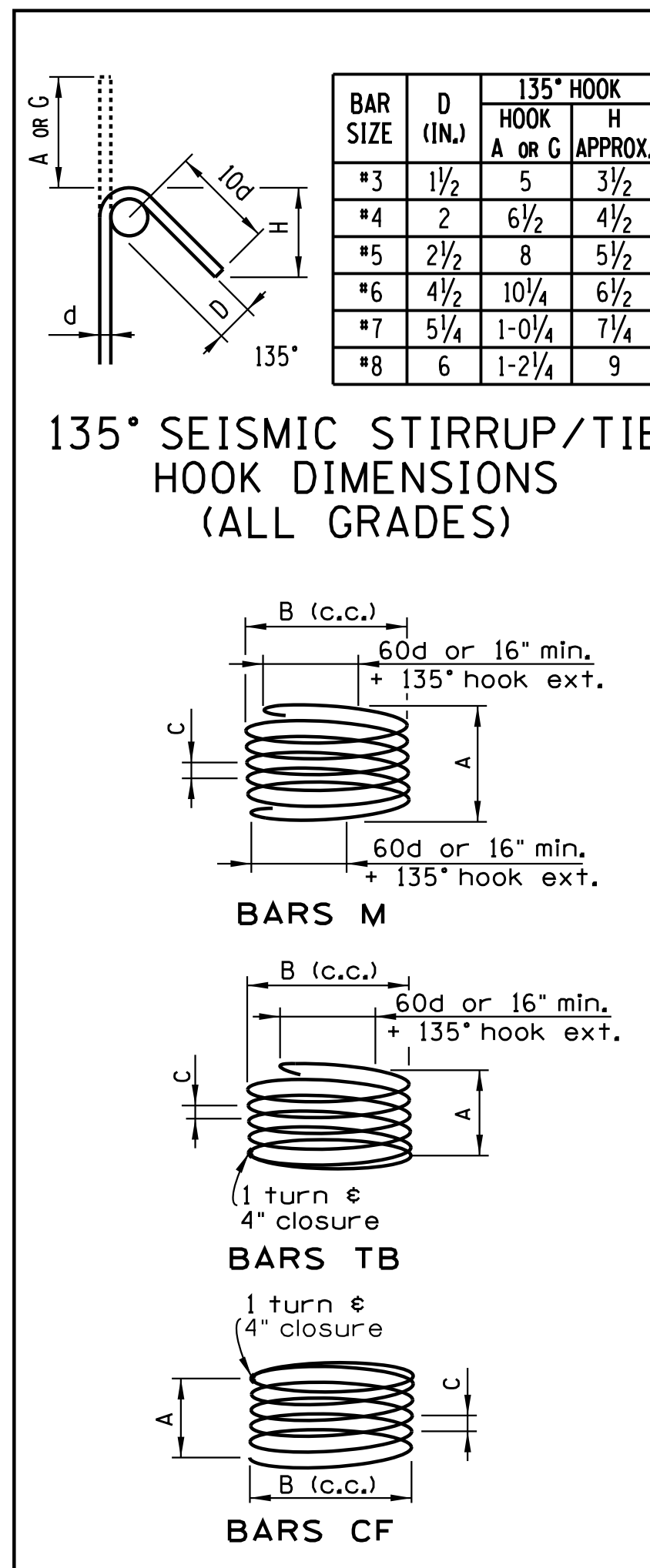
BILL OF STEEL II
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013

[illegible]

TYPE	SIZE	SERIES
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2030 ADT = 18,632
72'-0" ROADWAY WITH MODIFIED STD-1-1SS PARAPET
DESIGN SPEED = 50 MPH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BILL OF STEEL III
RALEIGH-MILLINGTON ROAD
OVER THE LOOSA HATCHIE RIVER
BRIDGE I.D. NO. 79S81030001
STATION 21+76.35
LOG MILE 3.88
SHELBY COUNTY
2013