

## PROJECT LOCATIONS



LATITUDE: 40°35'30" N      LONGITUDE: 82°18'00" W



PORTION TO BE IMPROVED	_____	_____
INTERSTATE & DIVIDED HIGHWAY	_____	_____
UNDIVIDED STATE & FEDERAL ROUTES	_____	_____
OTHER ROADS	_____	_____

NONE REQUIRED (ODNR PROJECT)

TITLE SHEET	1
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STRUCTURE ASD-20SP-0085 (CAMPGROUND STRUCTURE)	18-19
STRUCTURE ASD-58SP-0151 (COVERED BRIDGE STRUCTURE)	20-28

PAVEMENT MARKING ON ROADS NO. R-20, R-51, R-53,  
R-58 AND R-63 AND PARKING LOT F-57. CONCRETE OVERLAY,  
ROCK CHANNEL PROTECTION, NEW APPROACH SLABS,  
BACKWALL REPAIR, SEALING AND PAINTING AT COVERED BRIDGE.  
CONCRETE OVERLAY, SEALING AND ROCK CHANNEL PROTECTION  
AT CAMPGROUND BRIDGE.

PROJECT EARTH DISTURBED AREA:

N/A (MAINTENANCE PROJECT)

ESTIMATED CONTRACTOR EARTH DISTURBED AREA:

N/A (MAINTENANCE PROJECT)

NOTICE OF INTENT EARTH DISTURBED AREA:

N/A (MAINTENANCE PROJECT)

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC ON ROAD R-53 AND R-58. THE REMAINING ROADS SHALL REMAIN OPEN. SEE MAINTENANCE OF TRAFFIC NOTES FOR CLARIFICATION.

RAILROAD INVOLVED	NONE
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09	10
09	09
09	09
07	09
08	08
08	08

APPROVED, *Detor M. Mohan, PE*  
DATE 12/2/09 CHIEF ENGINEER, DEPARTMENT  
OF NATURAL RESOURCES

APPROVED, *Bl Hart*

ASD MOHICAN SP  
STRUCTURES


APPROVED \_\_\_\_\_  
DATE 12/14/09 DISTRICT DEPUTY DIRECTOR


APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF  
TRANSPORTATION

**UNDERGROUND UTILITIES**

CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
**BEFORE YOU DIG**

CALL  
**1-800-362-2764**  
(TOLL FREE)

 **OHIO UTILITIES PROTECTION SERVICE**  
**NON-MEMBERS**  
**MUST BE CALLED DIRECTLY**

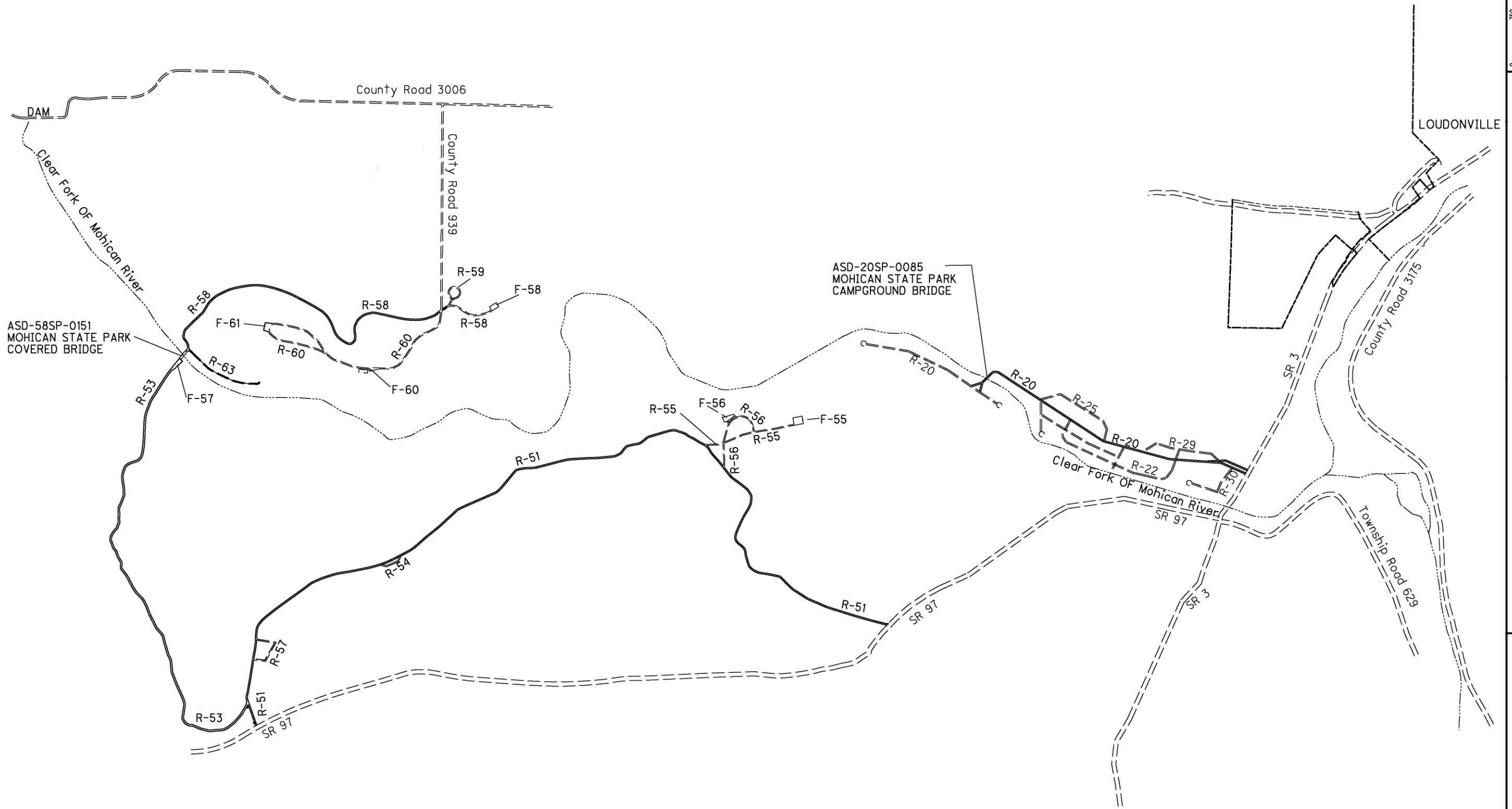
 **OIL & GAS PRODUCERS PROTECTIVE**  
**SERVICE CALL: 1-800-925-0988**

PLAN PREPARED BY:  
ODOT DISTRICT 3 - OFFICE OF PRODUCTION  
906 NORTH CLARK STREET  
ASHLAND, OHIO 44805

[illegible]

ASD - LR-MOHICAN SP STRUCT  
100135 PID - 83601  
Dist 3 3/11/2010





# SCHEMATIC PLAN

DESIGN FILE: i:\projects\83601\structures\gennotes.dgn  
WORKSTATION: dvousden DATE: 12/14/2009

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATION AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 & 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICALS, 2002, INCLUDING THE 2003, 2004, 2005 AND 2006 SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA:

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4,000 PSI  
CONCRETE CLASS S - COMPRESSIVE STRENGTH 4,500 PSI

EXISTING PLANS:

THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES ARE AVAILABLE UPON REQUEST AT THE DISTRICT 3 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, ASHLAND, OH. OR AT  
FTP://FTP.DOT.STATE.OH.US/PUB/DISTRICTS/D03/83601/EXISTINGPLANS/

DECK PROTECTION METHOD:

MICRO SILICA MODIFIED CONCRETE OVERLAY

UTILITY LINES:

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC: ODNr, MOHICAN STATE PARK  
3116 S.R. 3  
LOUDONVILLE, OHIO 44842  
(419) 994-5125

GAS: ODNr, MOHICAN STATE PARK  
3116 S.R. 3  
LOUDONVILLE, OHIO 44842  
(419) 994-5125

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

PLACING ASPHALT CONCRETE FEATHERING ON APPROACHES TO BRIDGES:

SPECIAL CARE SHALL BE TAKEN, WHEN PLACING THE ASPHALT CONCRETE TO EFFECT A SMOOTH TRANSITION FROM THE EXISTING APPROACH PAVEMENT TO THE BRIDGE DECK. THE CONTRACTOR'S ATTENTION IS CALLED TO STANDARD DRAWING BP-3.1 FOR REQUIRED TOLERANCES.

CUT LINE CONSTRUCTION JOINT PREPARATION:

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL IN PLACE. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

THESE ITEMS SHALL BE USED AT LOCATIONS IN THE PLAN.

THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER SHALL BE APPROVED BY THE ENGINEER.

THE EXISTING REINFORCING STEEL SHALL BE PRESERVED AS INDICATED IN THE PLANS. EXISTING CONCRETE SHALL BE REMOVED IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS NO HEAVIER THAN 90 POUND CLASS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEM, WHICH WILL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 407 - TACK COAT:

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE:

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITY INDICATE AN AVERAGE RATE OF:

407, TACK COAT	0.08 GAL./SY.
407, TACK COAT FOR INTERMEDIATE COURSE	0.04 GAL./SY.

ELEVATION DATUM

ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE GEOID03 GEOID. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2007 (NAD 83 (NSRS 2007)), AND THE GRS80 ELLIPSOID.

GENERAL NOTES

ASD MOHICAN SP  
STRUCTURES

DESIGN AGENCY  
ODOT DISTRICT THREE  
OFFICE OF PRODUCTION

DESIGNED	DCM	DATE	11/09
CHECKED	DJV	REVIEWED	RDN
DRAWN	DCM		

DESIGN FILE: I:\projects\83601\structures\gennotes.dgn  
WORKSTATION: dvousden DATE: 12/14/2009

ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:  
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS.  
USE A PG 64-22 BINDER.  
MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 30 PERCENT.  
DO NOT APPLY TABLE 442.02-1 EXCEPT SAND EQUIVALENT OF 45 APPLIES.  
APPLY 703.05 FOR COURSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY.  
QUALITY CONTROL: DO NOT PERFORM Nmax IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:  
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS.  
MINIMUM TOTAL PG BINDER CONTENT IS 6.0 PERCENT.  
USE A PG 64-22 BINDER.  
MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT.  
WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE AGGREGATE SOURCE GROUP LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED FOR LIGHT TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE PAVEMENT FRICTION IN SURFACE PAVEMENT.  
QUALITY CONTROL: DO NOT PERFORM Nmax IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

ITEM 511 - CLASS S CONCRETE, MISC.: CURB REPAIR  
ITEM 511 - CLASS C CONCRETE, ABUTMENT, AS PER PLAN: (REPAIR)

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM SPECIAL - BRIDGE DECK GROOVING:

THE BRIDGE DECK GROOVING SHALL MEET CMS 511.20.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 514 -FIELD PAINTING STRUCTURAL STEEL, FINISH COAT:

THE URETHANE FINISH COAT SHALL BE DARK BROWN IN COLOR AMD MATCH FEDERAL STANDARD COLOR FS-595B, 20100.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 516 - JOINT SEALER, AS PER PLAN:

THE COST TO SAW CUT A 1/2" WIDE GROOVE OVER THE JOINT AT THE APPROACH SLAB TO DECK LOCATION SHALL BE INCLUDED IN THIS ITEM.

THE JOINT MATERIAL SHALL MEET 705.04.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL, AS PER PLAN:

THIS ITEM SHALL BE USED TO INSTALL A NEW COMPRESSION JOINT. THE COST OF TRIMMING AND GRINDING THE EXISTING ANGLE, WELDING THE NEW PLATE TO THE EXISTING ANGLE IS INCLUDED IN THIS ITEM.

SEE SHEETS 26-28 AND STANDARD DRAWING EXJ-2-81 FOR DETAILS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 517 - RAILING MISC.: A588 STEEL ANGLES

THIS ITEM SHALL BE USED TO INSTALL THE PROPOSED RAILING AND POSTS AT THE LOCATIONS AND AS PER DETAILS ON SHEETS 10-13 IN THE PLAN.

THE STEEL POSTS AND RAILING SHALL BE A588 STEEL.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT OF THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 642 - TRANSVERSE/DIAGONAL LINE, TYPE I, AS PER PLAN:

THE TRANSVERSE LINE SHALL BE SOLID 4 INCHES IN WIDTH AND PLACED OVER THE EXISTING LINES AT THE LOCATIONS SHOWN IN THE PLAN.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT OF THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 847 - MICRO SILICA MODIFIED CONCRETE OVERLAY, AS PER PLAN (1 1/4" THICK):

ITEM 847 - MICRO SILICA MODIFIED CONCRETE OVERLAY, AS PER PLAN (2 1/4" THICK):

ITEM 847 - MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN:

THE COARSE AGGREGATE SHALL BE LIMESTONE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER CUBIC YARD FOR THE ABOVE ITEMS WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 609 - CURB, TYPE 4-A, AS PER PLAN:

THIS ITEM SHALL BE USED TO CONSTRUCT THE PROPOSED CURB ON THE APPROACH SLABS AS PER THE DETAILS AND LOCATIONS SHOWN ON SHEETS 10-11 IN THE PLAN.

PAYMENT FOR ALL OF THE ABOVE SHALL BE AT THE UNIT PRICE BID PER FOOT FOR THE ABOVE ITEM WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

GENERAL NOTES

ASD MOHICAN SP  
STRUCTURES

DESIGN AGENCY  
ODOT DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
11/09

REVIEWED  
RDN

DRAWN  
DCM

DESIGNED  
DCM

CHECKED  
DJV

SCENIC RIVER COMMITMENTS

IDLE EQUIPMENT, PETROCHEMICALS AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED IN THE FLOODPLAIN OR NEAR ANY DRAINAGE WAYS, DITCHES OR STREAMS THAT COULD CONVEY SUCH MATERIALS TO THE CLEAR FORK, MOHICAN STATE SCENIC RIVER. PETROCHEMICALS AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE DISCHARGED INTO THE CLEAR FORK, MOHICAN STATE SCENIC RIVER, ITS FLOODPLAIN OR ANY DRAINAGE WAYS, DITCHES OR STREAMS. REFUELING OF EQUIPMENT SHALL NOT OCCUR IN THE FLOODPLAIN OR NEAR ANY DRAINAGE WAYS, DITCHES OR STREAMS. A SPILL CONTAINMENT AND CLEANUP PLAN SHALL BE GENERATED PRIOR TO THE START OF THE PROJECT.

ALL IN-STREAM WORK SHALL BE CONDUCTED DURING LOW FLOW PERIOD (AUGUST 1 THROUGH OCTOBER 31). ANY DISTURBED AREAS IN THE STREAM BOTTOM SHALL BE RETURNED TO PRE-CONSTRUCTION CONTOURS. STREAM BOTTOM ELEVATIONS SHALL BE DETERMINED BEFORE IN-STREAM WORK COMMENCES TO ENSURE THAT ALL FILL MATERIAL AND DEBRIS IS COMPLETELY REMOVED BEFORE CONSTRUCTION IS COMPLETED.

IF DEWATERING IS NECESSARY TO FACILITATE IN-STREAM WORK OR PIER CONSTRUCTION, ALL WASTEWATER SHALL BE PUMPED ONTO A VEGETATED AREA A SUFFICIENT DISTANCE FROM THE CLEAR FORK, MOHICAN STATE SCENIC RIVER TO ALLOW FOR COMPLETE INFILTRATION. NO WASTEWATER OF ANY KIND SHALL BE DISCHARGED DIRECTLY INTO THE CLEAR FORK, MOHICAN STATE SCENIC RIVER OR ANY OTHER DRAINAGE WAYS, DITCHES OR STREAMS. ALL STORM WATER DRAINAGE SHALL BE DIRECTED ONTO A VEGETATED AREA TO ALLOW FOR COMPLETE INFILTRATION. IF DISCHARGE TO A VEGETATED AREA IS NOT FEASIBLE, THEN WASTEWATER SHALL BE DISCHARGED INTO A SEDIMENT FILTER BAG OR INTO A TEMPORARY DETENTION/RETENTION POND WITH SUFFICIENT RETENTION TIME TO PERMIT FOR THE SETTLING OF ALL SUSPENDED SOLIDS.

ENVIRONMENTAL COMMITMENTS

ANY UNAVOIDABLE CUTTING OF TREES WITH SUITABLE ROOSTING AND BROOD-REARING HABITAT FOR THE INDIANA BAT (LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES) WILL BE PERFORMED ONLY BEFORE APRIL 15TH OR AFTER SEPTEMBER 15TH WHEN THE SPECIES WOULD NOT BE USING SUCH HABITAT.

DECK MATERIALS AND OTHER DEBRIS WILL BE KEPT OUT OF THE RIVER IN ACCORDANCE WITH ODOT'S CMS MANUAL, SECTION 105.

THIS PROJECT LIES WITHIN THE RANGE OF THE EASTERN HELLBENDER, A FEDERALLY ENDANGERED SPECIES. THE CONTRACTOR WILL AVOID ENTERING THE STREAM BEYOND THE LIMITS OF THE ROCK CHANNEL PROTECTION AND BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED TO AVOID SEDIMENTATION IMPACTS TO THE CLEAR FORK OF THE MOHICAN RIVER.

SHEET NUMBER														ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
3	5	6	9	14	15	16	17	18	21	23	24	25	OFFICE CALCS							
																		ROADWAY		
LUMP														201	11000	LUMP		CLEARING AND GRUBBING		
			424											202	30000	424	SQ FT	WALK REMOVED		
			118											202	32000	118	FT	CURB REMOVED		
			35											202	35100	35	FT	PIPE REMOVED, 24" AND UNDER		
			3											202	58100	3	EACH	CATCH BASIN REMOVED		
													213	203	10000	213	CU YD	EXCAVATION		
													20	203	20000	20	CU YD	EMBANKMENT		
													457	204	10000	457	SQ YD	SUBGRADE COMPACTION		
			656											608	10000	656	SQ FT	4" CONCRETE WALK		
																		EROSION CONTROL		
			1.78											601	21050	1.78	SQ YD	TIED CONCRETE BLOCK MAT, TYPE I		
								91						601	34400	91	CU YD	ROCK CHANNEL PROTECTION WITH GROUT, TYPE C		
									138					601	34400	138	CU YD	ROCK CHANNEL PROTECTION WITH GROUT, TYPE B		
								1					14	659	00300	15	CU YD	TOP SOIL		
								56					123	659	10000	179	SQ YD	SEEDING AND MULCHING		
													6	659	14000	6	SQ YD	REPAIR SEEDING AND MULCHING		
													6	659	15000	6	SQ YD	INTER-SEEDING		
													0.02	659	20000	0.02	TON	COMMERCIAL FERTILIZER		
													0.02	659	31000	0.02	ACRE	LIME		
													0.7	659	35000	0.7	M GAL	WATER		
														832	30000	2000	EACH	EROSION CONTROL		
																		DRAINAGE		
			53											603	00900	53	FT	6" CONDUIT, TYPE B, 707.33		
			45											603	04400	45	FT	12" CONDUIT, TYPE B, 707.33		
			10											603	07400	10	FT	18" CONDUIT, TYPE B, 707.33		
			2											604	00800	2	EACH	CATCH BASIN, NO. 3A		
			1											604	36600	1	EACH	PRECAST REINFORCED CONCRETE OUTLET		
			66											839	30100	66	FT	TRENCH DRAIN WITH PEDESTRIAN GRATE		
																		PAVEMENT		
								284						254	01000	284	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE		
													37	301	46000	37	CU YD	ASPHALT CONCRETE BASE, PG64-22		
													73	304	20000	73	CU YD	AGGREGATE BASE		
								23						26	407	10000	49	GALLON	TACK COAT	
														13	407	14000	13	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
								8						11	442	10501	19	CU YD	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A (448), AS PER PLAN	3
														16	442	20201	16	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448), AS PER PLAN	4
			60											609	24001	60	FT	CURB, TYPE 4-A, AS PER PLAN	4	
			80											609	26000	80	FT	CURB, TYPE 6		
																		TRAFFIC CONTROL		
				0.20		0.07	0.10							642	00100	0.37	MILE	EDGE LINE, TYPE 1		
				0.77	2.62	1.39	0.99							642	00300	5.77	MILE	CENTER LINE, TYPE 1		
				49		56								642	00600	105	FT	CROSSWALK LINE, TYPE 1		
				168		204								642	00701	372	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1, AS PER PLAN	4	
						300								642	01200	300	FT	PARKING LOT STALL MARKING, TYPE 1		
						0.01	0.06							646	10000	0.07	MILE	EDGE LINE		
				0.04		0.01	0.03							646	10200	0.08	MILE	CENTER LINE		

GENERAL SUMMARY

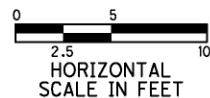
ASD MOHICAN SP  
STRUCTURES

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TYP. - TYPICAL  
R.A. - REAR ABUTMENT  
F.A. - FORWARD ABUTMENT  
A.P.P. - AS PER PLAN  
O/O - OUT TO OUT  
LT - LEFT  
RT - RIGHT      S.P. 58 C



**S.P. 58 CURVE DATA**  
*P.I.* = Sta. 12+97.12  
 $\Delta$  = 25° 25' 15" (RT)  
*Dc* = 15° 00' 00"  
*R* = 381.97'  
*T* = 86.15'  
*L* = 169.47'  
*E* = 9.60'  
*C* = 168.08'  
*C.B.* = N 28° 12' 59"

TRENCH DRAIN W/  
PEDESTRIAN GRATE  
+87.10, 18.50' LT  
GRATE EL. 983.10  
F EL. 982.18  
F 6" EL. 982.18

6" B  
+87.40, 24.53' LT  
EL. 980.78

€ POST  
+01.85

TRENCH DRAIN W/  
PEDESTRIAN GRATE  
+62.80, 10.30' LT  
GRATE EL. 983.08  
F EL. 982.16  
F 6" EL. 982.16

— CURVE 2  
Sta. 15+74.54, 70.88' LT (S.P. 58)

S.P. 58 CURVE DATA  
P.I. = Sta. 16+39.19  
 $\Delta = 68^\circ 42' 00''$  (LT)  
 $D_c = 47^\circ 59' 55''$   
 $R = 119.37'$   
 $T = 81.58'$   
 $L = 143.13'$   
 $E = 25.21'$   
 $C = 134.71'$   
C.B. = N  $6^\circ 34' 36''$  E

C.B. NO. 3A  
+75.70, 10.90' LT  
GRATE EL. 983.18  
EL. 6" (S) 980.43  
EL. 12" (E) 979.67

C.B. NO. 3A  
+79.50, 33.51' RT  
GRATE EL. 982.73  
ℱ EL. 6" (W) 979.73  
ℱ EL. 12" (W) 979.23  
ℱ EL. 18" (N) 978.73  
ℱ EL. 18" (S) 978.73

ADD 6" IN AREAS OF FULL HEIGHT CURB, TYPE 6 AND 8" IN AREAS OF FULL HEIGHT CURB, TYPE 4A,  
AS PER PLAN TO OBTAIN TOP OF CURB ELEVATIONS.

CURVE	RADIUS	INTERIOR ANGLE	ARC LENGTH
1	50'	68° 09' 30"	59.48'
2	60'	22° 47' 00"	23.86'

ALL DISTANCES ARE MEASURED TO THE FACE OF CURB.

- CURVE 1  
Sta. 15+46.26, 61.99' RT (S.P. 58)

ASD MOHICAN SP  
STRUCTURES

DESIGN AGENCY

ODOT DISTRICT THREE

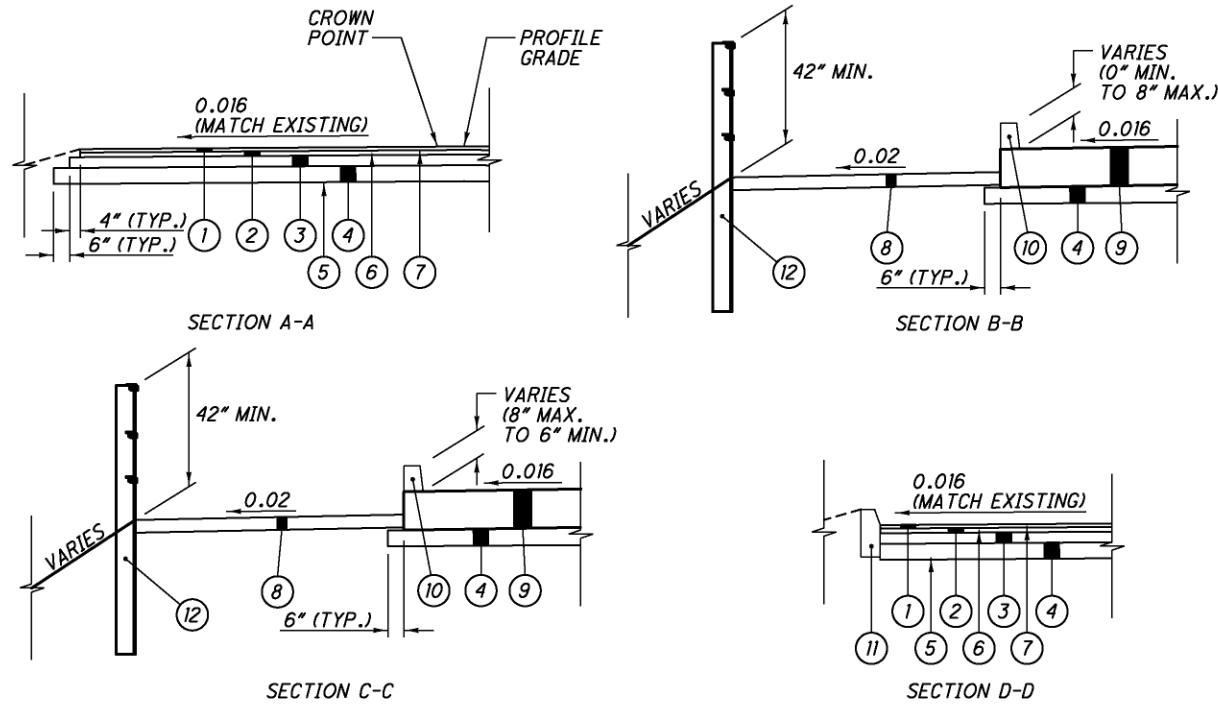
OFFICE OF PRODUCTION

REVIEWED	DATE
STRUCTURE FILE NUMBER	
0300041	

DESIGNED	DRAWN
DJV	DJV
CHECKED	REVISED
DATE	DATE

ASD-58SP-0151

$$\frac{10}{28}$$



LEGEND

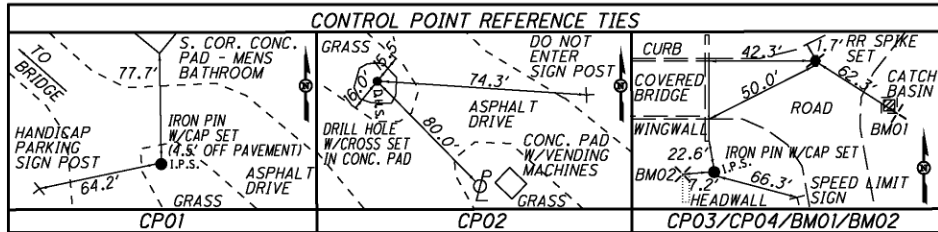
- |   |   |
|---|---|
| 1 442 1 1/4" ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN     | 7 407 TACK COAT FOR INTERMEDIATE COURSE             |
| 2 442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN | 8 608 4" CONCRETE WALK                              |
| 3 301 4" ASPHALT CONCRETE BASE, PG64-22   | 9 526 REINFORCED CONCRETE APPROACH SLAB (T=12")     |
| 4 304 6" AGGREGATE BASE   | 10 609 CURB, TYPE 4-A, AS PER PLAN                  |
| 5 204 SUBGRADE COMPACTION   | 11 609 CURB, TYPE 6                                 |
| 6 407 TACK COAT   | 12 517 RAILING, MISC.: A588 STRUCTURAL STEEL SHAPES |

PROJECT GROUND COORDS. - US SURVEY FEET

Primary Control Points						
	CENTERLINE R/W NR 8	(NAT. RESOURCE-08-1.43(1965) USED FOR ALIGNMENT)				
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE
CP01	15+66.23	547.59	344746.7640	2020057.6830	971.8220	IPINS
CP02	15+81.76	1163.20	344517.7900	2020641.6242	970.7000	DRILLHS
CP03	15+34.23	50.19	345017.4446	2019636.3463	969.6676	IPINS
CP04	15+92.66	-8.39	345100.8658	2019624.8500	984.0996	RSPKS
BM01	16+31.29	37.21	345131.0101	2019679.3857	985.8500	BM
BM02	15+27.15	49.80	345012.3465	2019631.4080	968.5200	BM

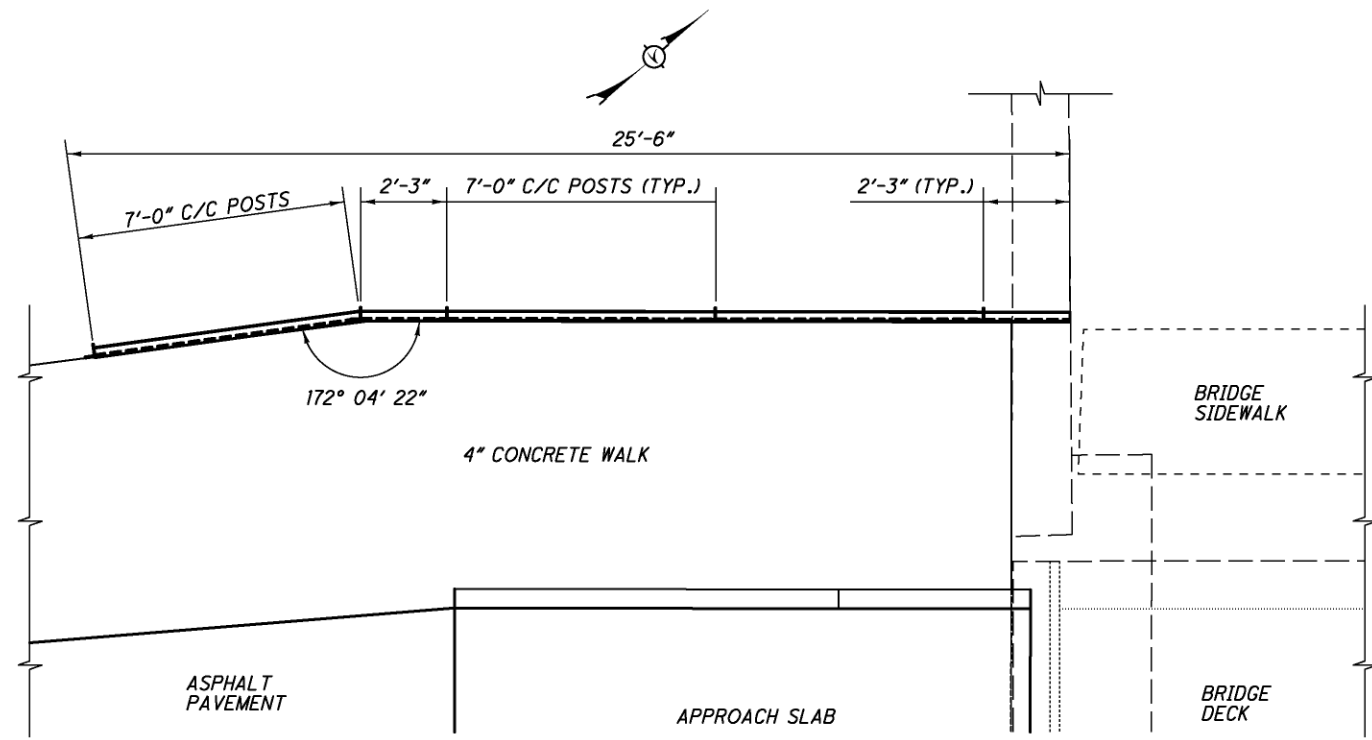
NR 08 MONUMENTATION/ALIGNMENT

	CENTERLINE R/W NR 8	(NAT. RESOURCE-08-1.43(1965) USED FOR ALIGNMENT)				
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE
SV10	14+03.90	11.98	344944.0025	2019522.0893	983.5293	JOINT
SV11	14+03.89	-11.98	344959.6925	2019503.9820	983.4832	JOINT
SV12	15+46.12	-11.98	345067.1535	2019597.1568	983.5053	JOINT
SV13	15+46.10	11.98	345051.4462	2019615.2467	983.5455	JOINT
ALIGNMENT						
CL05	12+10.97	0.00	344786.0181	2019418.2021	0.0000	CALPT
CL04	12+97.12	-9.60	344869.0360	2019441.2343	0.0000	CALPT
CL02	13+80.44	0.00	344934.1291	2019497.6730	0.0000	CALPT
CL03	13+80.44	381.97	344683.9029	2019786.2694	0.0000	CALPT
CL01	14+75.00	0.00	345005.5737	2019559.6187	0.0000	CALPT
CL06	15+57.61	0.00	345067.9894	2019613.7360	0.0000	CALPT
CL07	15+57.61	-119.37	345146.1880	2019523.5463	0.0000	CALPT
CL09	16+39.19	25.21	345129.6281	2019667.1795	0.0000	CALPT
CL08	17+00.74	0.00	345201.8112	2019629.1647	0.0000	CALPT

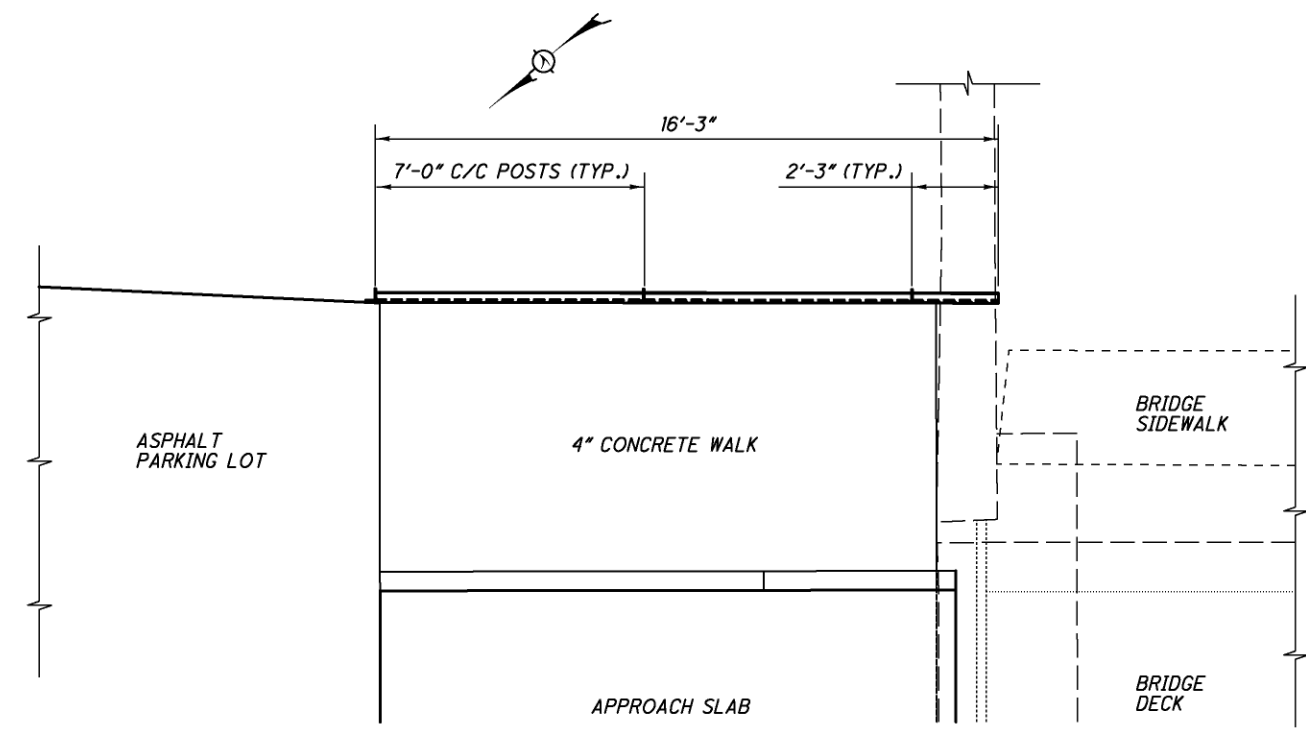


NOTES:

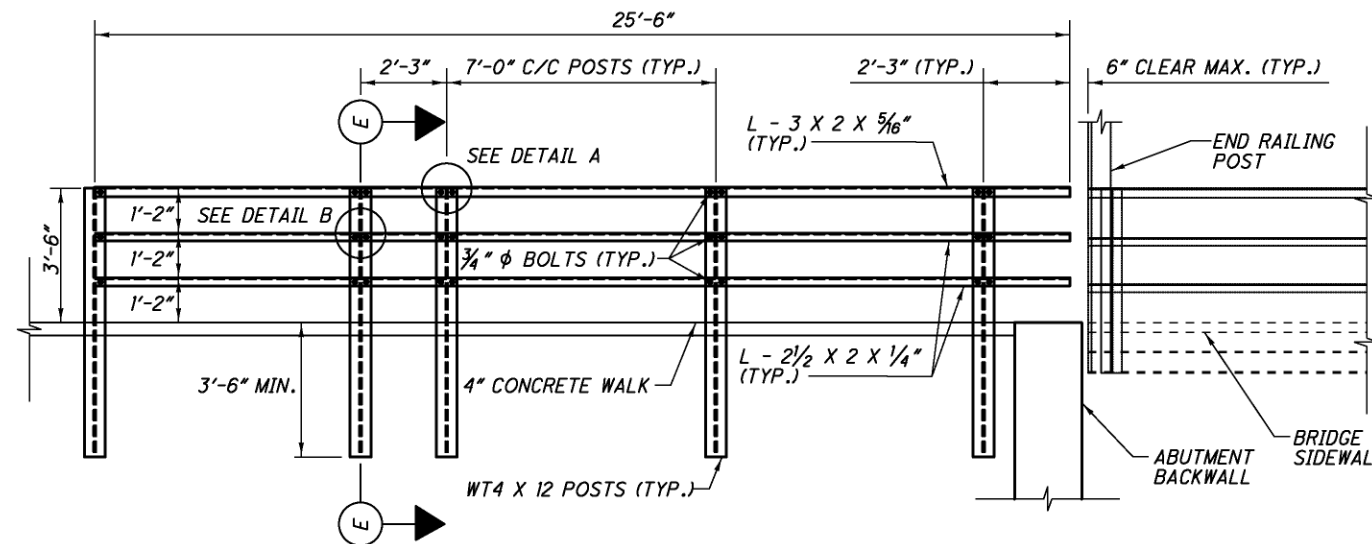
FOR PAVEMENT, EARTHWORK AND SEEDING QUANTITIES, SEE OFFICE CALCULATIONS.  
FOR APPROACH RAILING DETAILS, SEE SHEETS 12-13.  
FOR ESTIMATED QUANTITIES, SHEE SHEET 9.



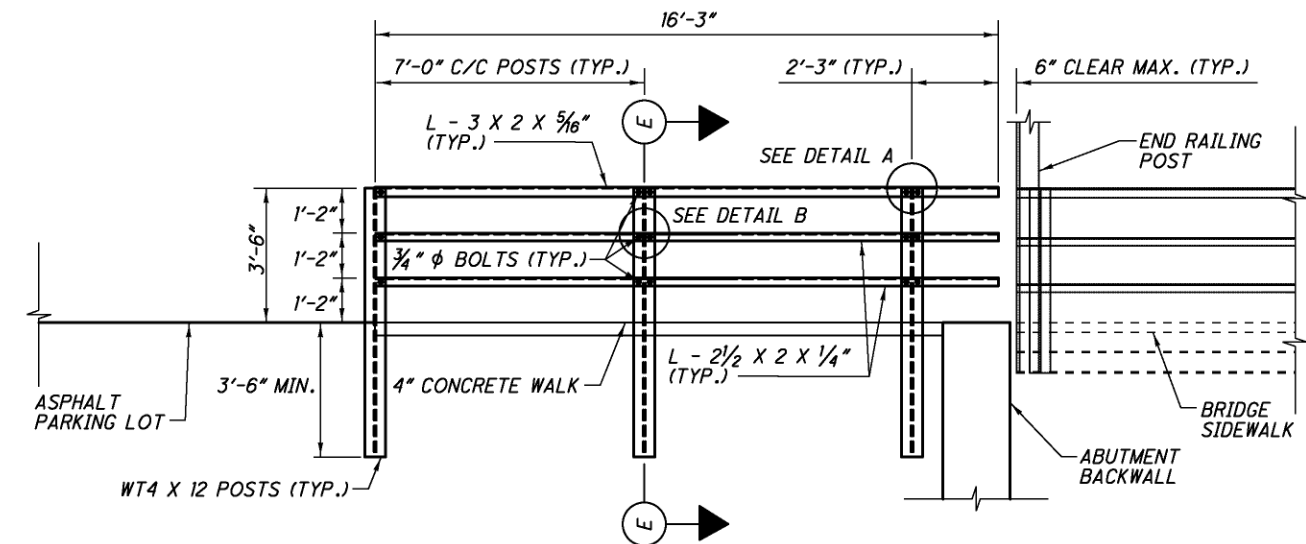
PLAN VIEW - LEFT REAR ABUTMENT



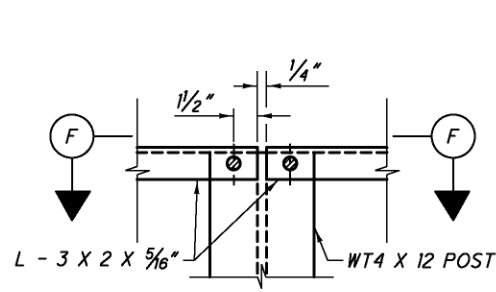
PLAN VIEW - RIGHT REAR ABUTMENT



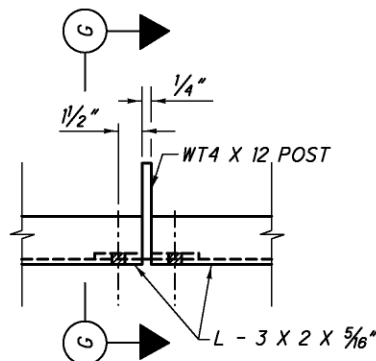
ELEVATION VIEW - LEFT REAR ABUTMENT



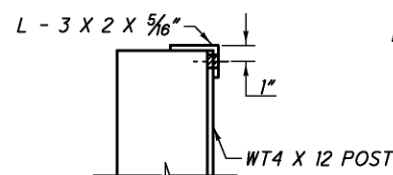
ELEVATION VIEW - RIGHT REAR ABUTMENT



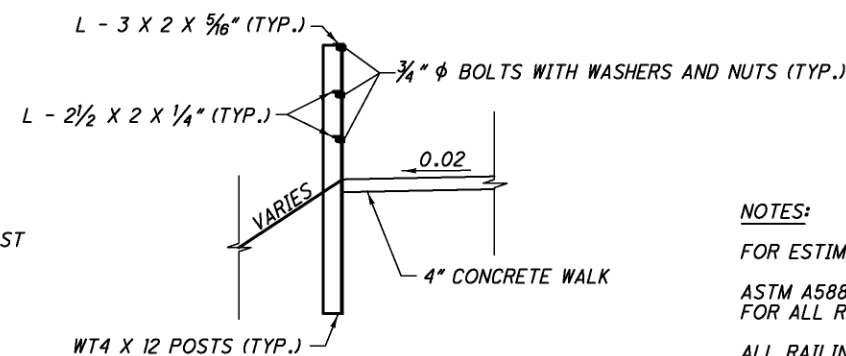
DETAIL A



SECTION F-F



SECTION G-G



SECTION E-E

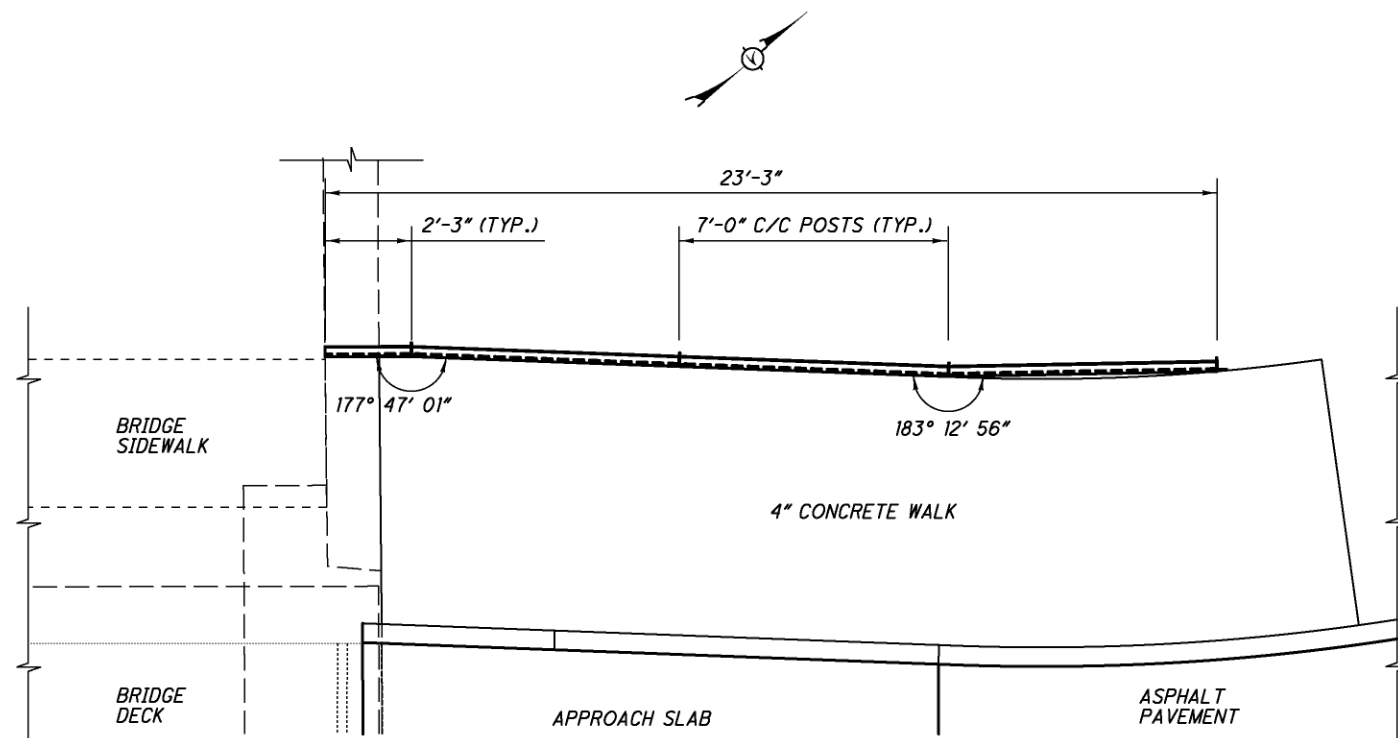
NOTES:

FOR ESTIMATED QUANTITIES, SEE SHEET 9.

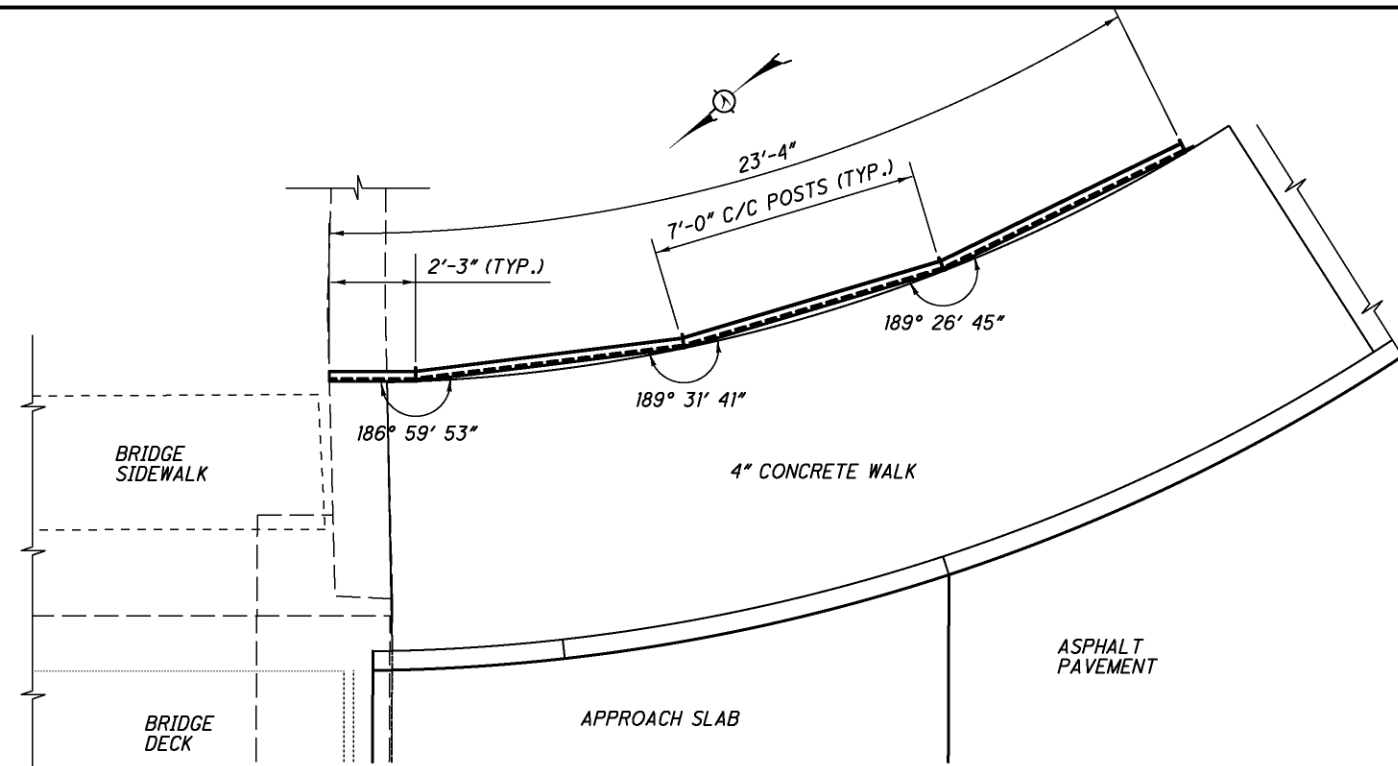
ASTM A588/A709M1 GRADE 50W UN-COATED WEATHERING STEEL SHALL BE SPECIFIED FOR ALL RAILING STRUCTURAL STEEL MEMBERS AND HARDWARE.

ALL RAILING DIMENSIONS AND ANGLES ARE MEASURED FROM THE OUTSIDE FACE OF TOP RAIL ELEMENT (L - 3 X 2 X 5/16").

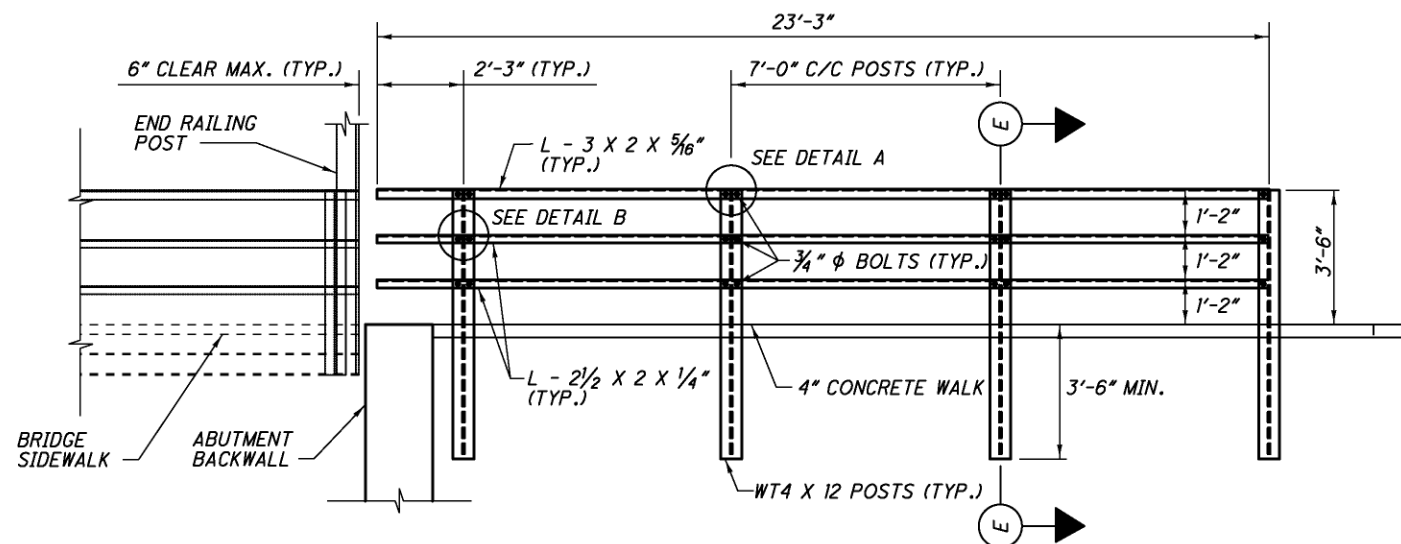
FOR DETAIL B, SEE SHEET 13.



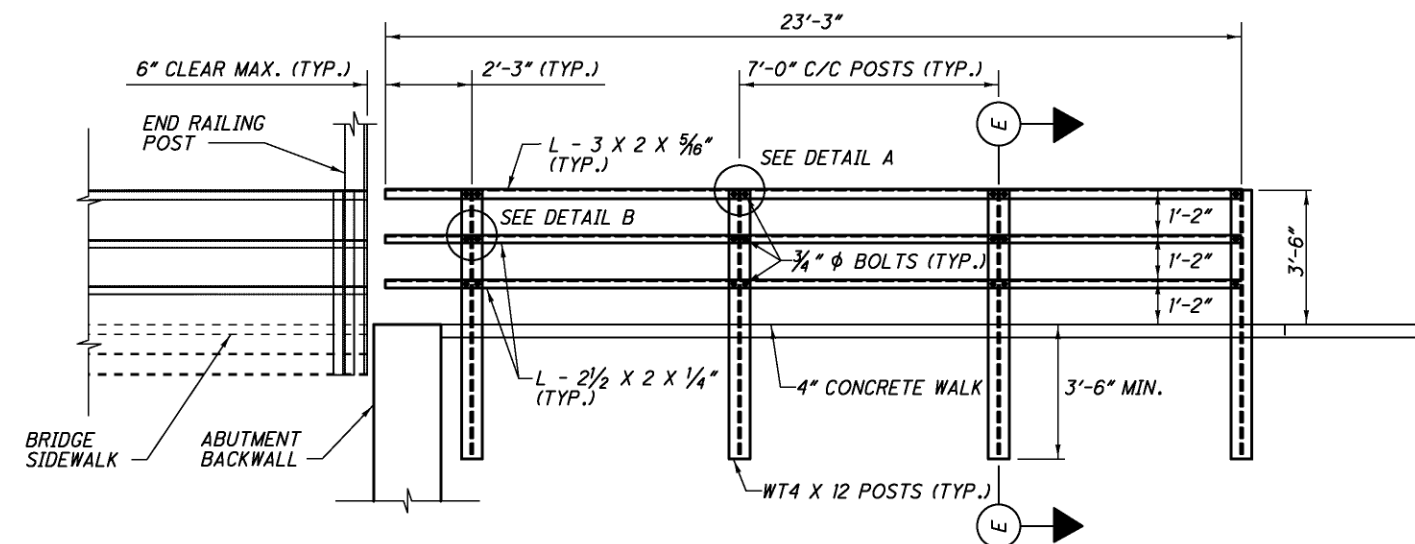
PLAN VIEW - LEFT FORWARD ABUTMENT



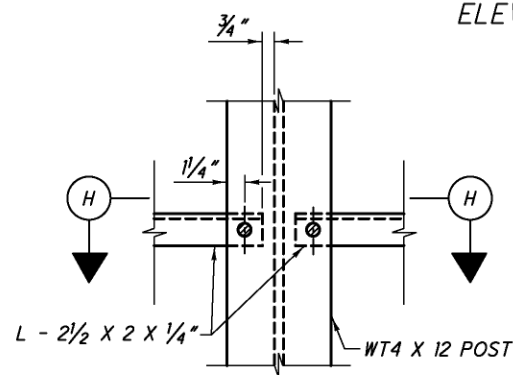
PLAN VIEW - RIGHT FORWARD ABUTMENT



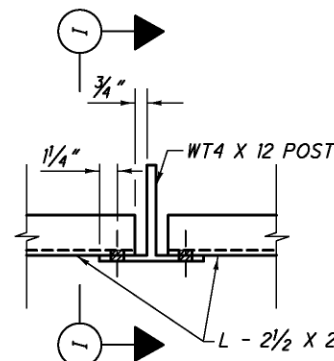
ELEVATION VIEW - LEFT FORWARD ABUTMENT



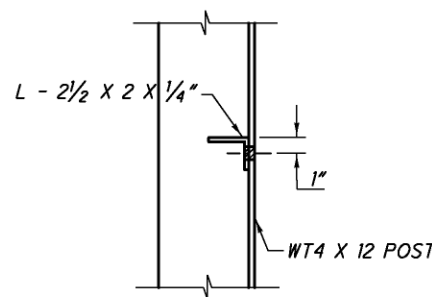
ELEVATION VIEW - RIGHT FORWARD ABUTMENT



DETAIL B



SECTION H-H



SECTION I-I

NOTES:

FOR ESTIMATED QUANTITIES, SEE SHEET 9.

ASTM A588/A709[M] GRADE 50W UN-COATED WEATHERING STEEL SHALL BE SPECIFIED FOR ALL RAILING STRUCTURAL STEEL MEMBERS AND HARDWARE.

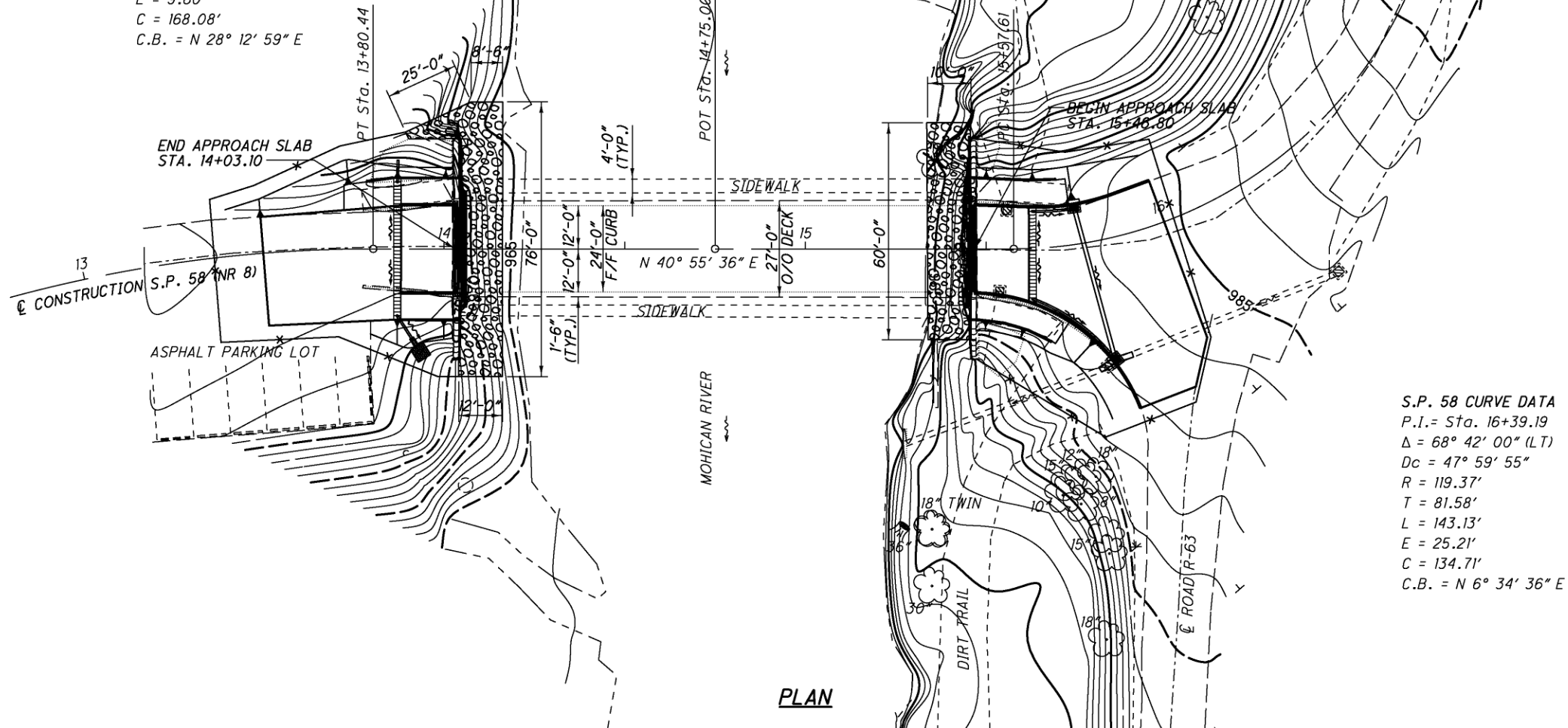
ALL RAILING DIMENSIONS AND ANGLES ARE MEASURED FROM THE OUTSIDE FACE OF TOP RAIL ELEMENT (L - 3 X 2 X 5/16").

FOR SECTION E-E, SEE SHEET 12.

FOR DETAIL A, SEE SHEET 12.

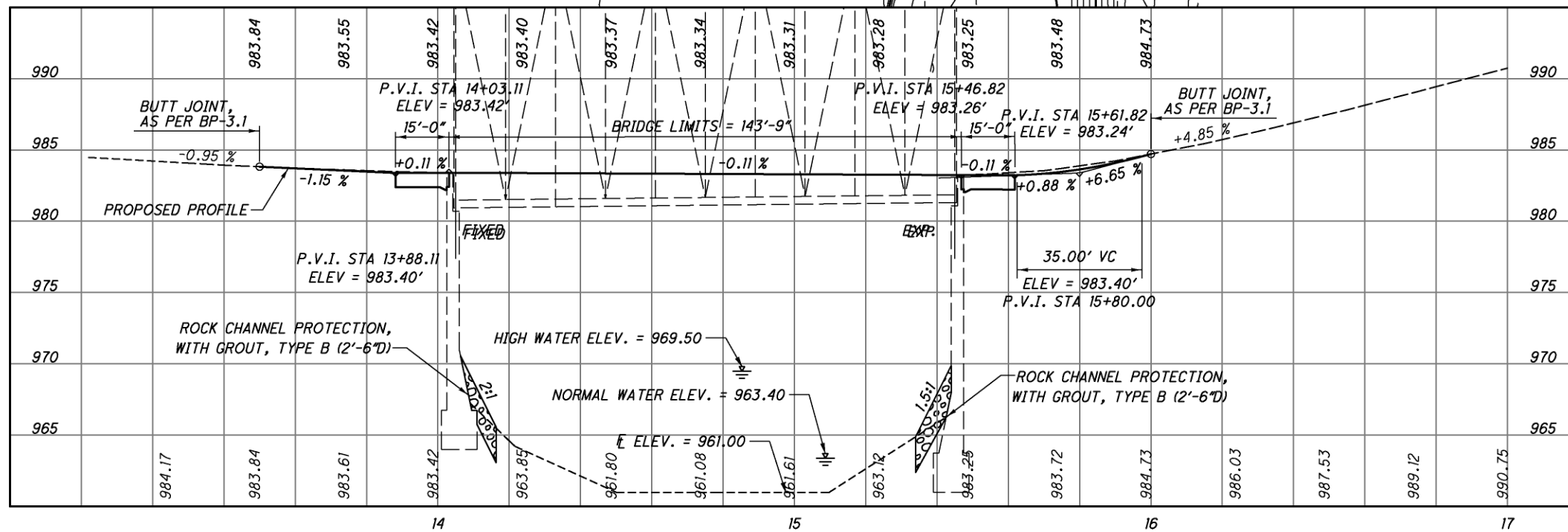


S.P. 58 CURVE DATA  
P.I. = Sta. 12+97.12  
 $\Delta = 25^\circ 25' 15''$  (RT)  
Dc = 15° 00' 00"  
R = 381.97'  
T = 86.15'  
L = 169.47'  
E = 9.60'  
C = 168.08'  
C.B. = N 28° 12' 59" E



PLAN

S.P. 58 CURVE DATA  
P.I. = Sta. 16+39.19  
 $\Delta = 68^\circ 42' 00''$  (LT)  
Dc = 47° 59' 55"  
R = 119.37'  
T = 81.58'  
L = 143.13'  
E = 25.21'  
C = 134.71'  
C.B. = N 6° 34' 36" E



PROFILE ALONG C CONSTRUCTION S.P. 58

### BENCHMARK DATA

BM #1 STA. 16+31.29, ELEV. 985.85, OFFSET 37.21', RT.  
BM #2 STA. 15+27.15, ELEV. 968.52, OFFSET 49.80, RT.

### NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE.

EXISTING STRUCTURE TO BE REHABILITATED. ROAD TO BE CLOSED DURING CONSTRUCTION AND TRAFFIC TO BE DETOURED.

MICRO SILICA MODIFIED CONCRETE DECK OVERLAY SHALL MAINTAIN EXISTING 14'-4" VERTICAL CLEARANCE.

### LEGEND

ROCK CHANNEL PROTECTION, WITH GROUT, TYPE B (2'-6" D)  
\* - TEMPORARY CONSTRUCTION FENCE

### HYDRAULIC DATA

DRAINAGE AREA = 200 SQ. MILES

### EXISTING STRUCTURE

TYPE: WOOD COVERED THRU STEEL TRUSS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 140'-0" C/C BEARINGS

ROADWAY: 24'-0" F/F 1'-6" SAFETY CURB WITH 4' SIDEWALK

LOADING: HS-20-44

SKREW: NONE

APPROACH SLABS: NONE

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

STRUCTURAL FILE NUMBER: 0326941

DATE BUILT: 1967

DISPOSITION: GOOD

### PROPOSED STRUCTURE

TYPE: WOOD COVERED THRU STEEL TRUSS WITH 1/4" MICRO-SILICA MODIFIED CONCRETE DECK OVERLAY AND 25'-0" WIDE REINFORCED CONCRETE APPROACH SLABS ON EXISTING REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 140'-0" C/C BEARINGS

ROADWAY: 24'-0" F/F 1'-6" SAFETY CURB WITH 4' SIDEWALK

LOADING: HS-20-44

SKREW: NONE

APPROACH SLABS: 15'-0" LONG (AS-1-81)

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

COORDINATES: LATITUDE 40° 36' 47" N

LONGITUDE 82° 18' 59" W

DESIGN AGENCY  
ODOT DISTRICT THREE  
OFFICE OF PRODUCTION

DATE  
11/09  
REVIEWED  
RDN  
STRUCTURE FILE NUMBER  
0326941

DRAWN  
DJV  
DESIGNED  
DJV  
CHECKED  
DCM

ASHLAND COUNTY  
STA. 14+03.10  
STA. 15+46.80

SITE PLAN  
ASD-56SP-0151  
OVER MOHICAN RIVER

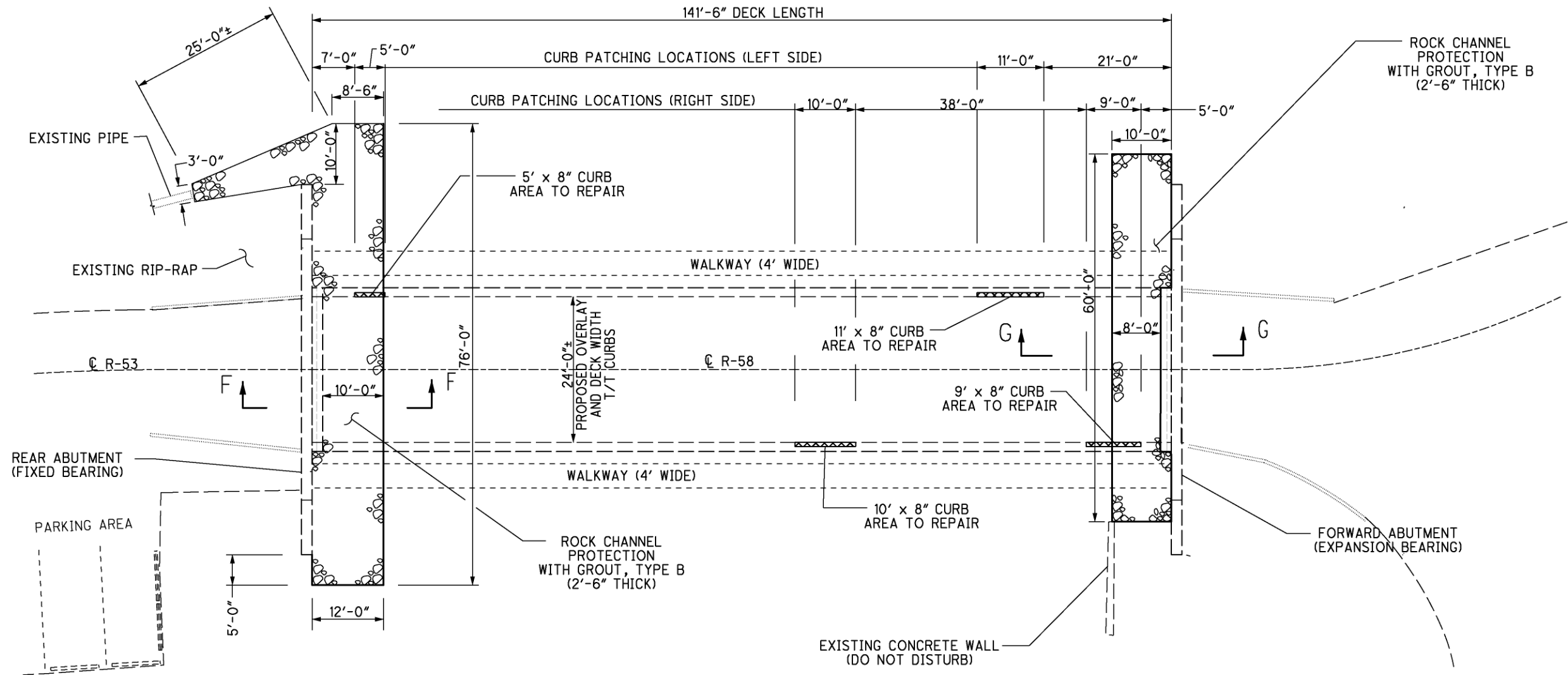
ASD MOHICAN SP  
STRUCTURES  
PID No. 83601

1/8

20  
28

ITEM	QUANTITY	UNIT	DESCRIPTION
202	.5	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
511	.5	CU YD	CLASS S CONCRETE, MISC.: CURB REPAIR
SPECIAL	378	SQ YD	BRIDGE DECK GROOVING
601	138	CU YD	ROCK CHANNEL PROTECTION WITH GROUT, TYPE B
847	378	SQ YD	MICRO SILICA MODIFIED CONCRETE OVERLAY, AS PER PLAN (1 1/4" THICK)
847	5	CU YD	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), AS PER PLAN
847	LUMP		TEST SLAB

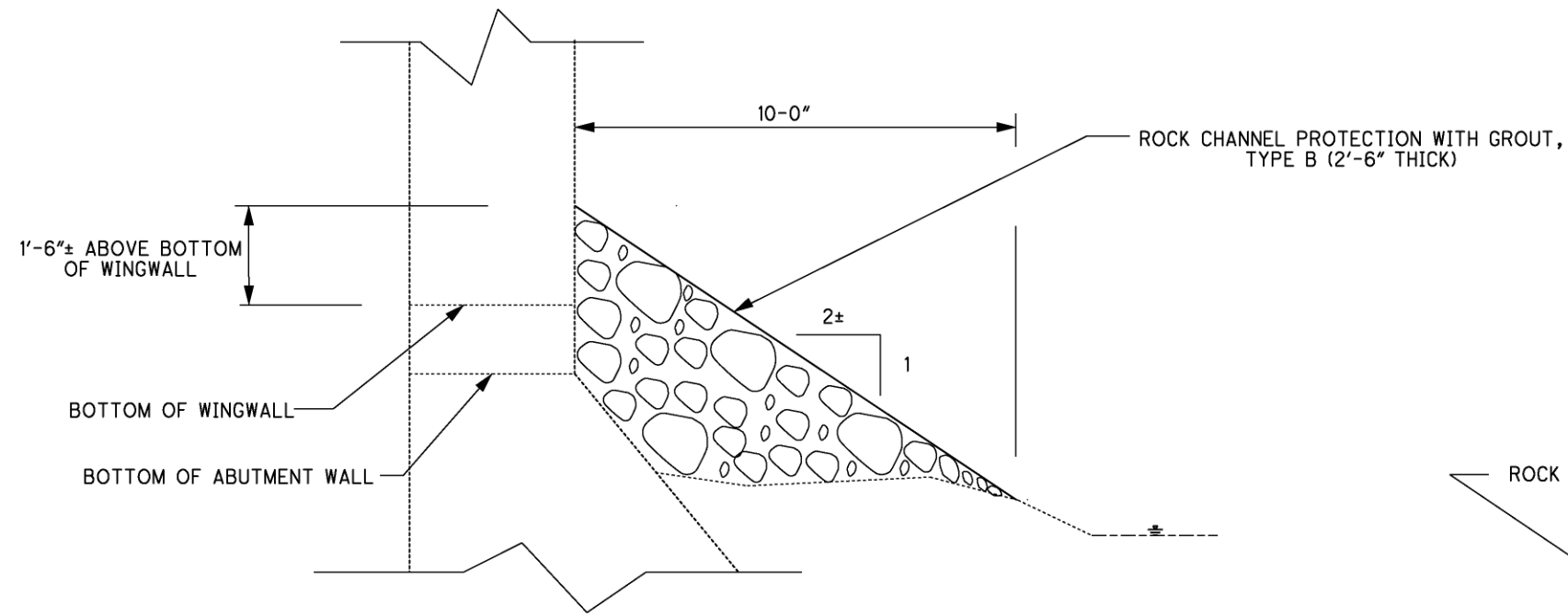
QUANTITIES CARRIED TO GENERAL SUMMARY.



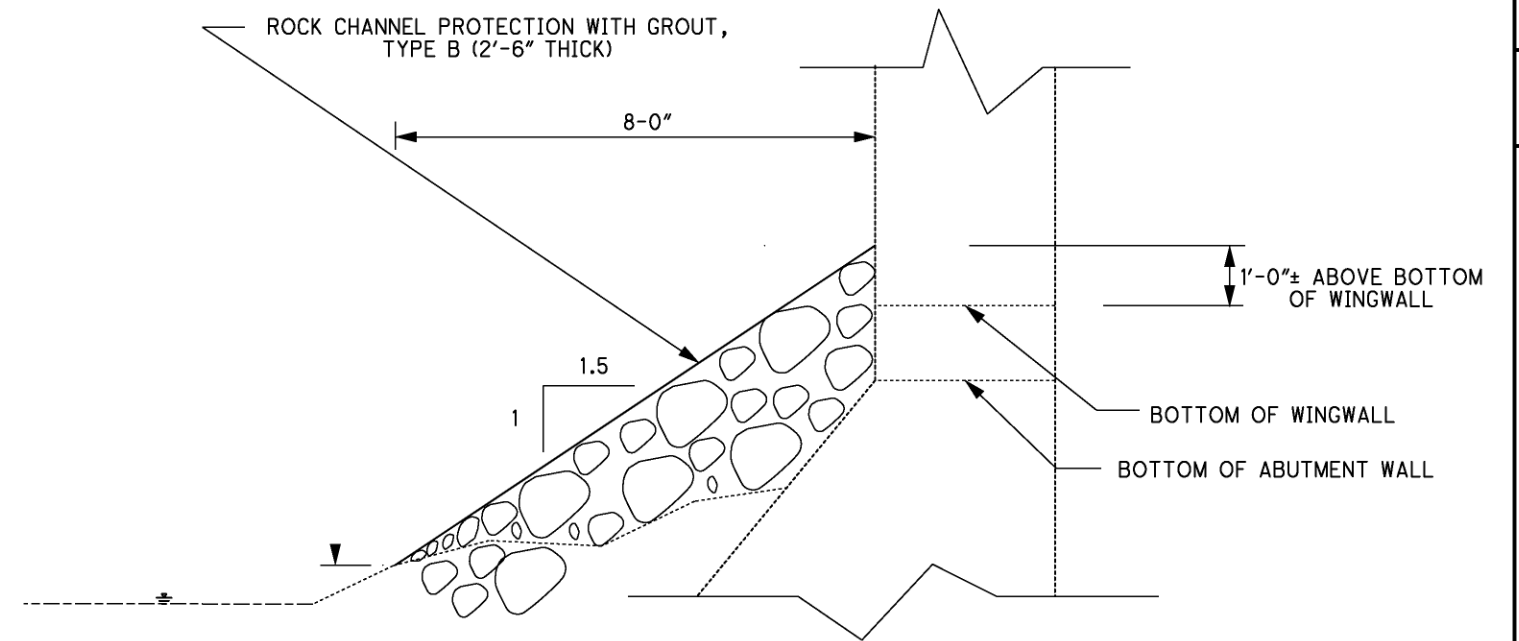
PLAN VIEW

NOTES:

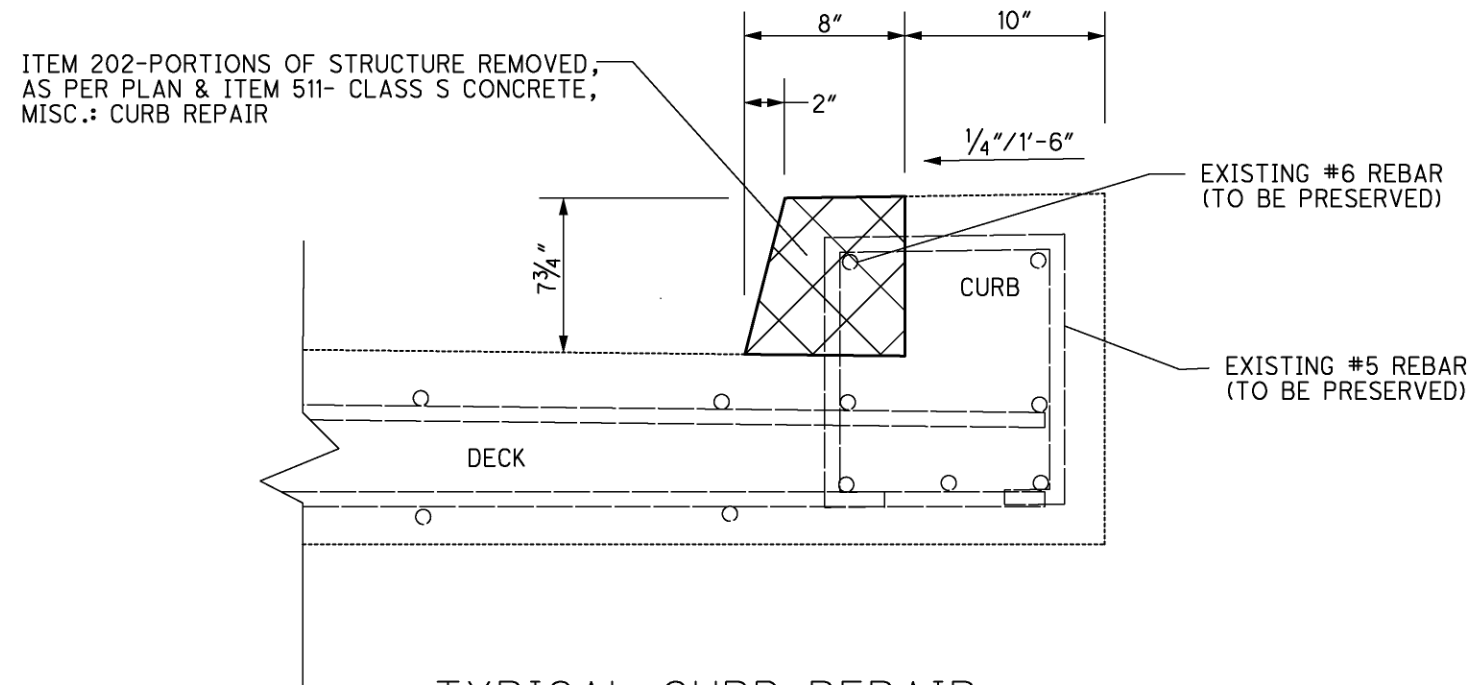
- 1) SEAL CURBS, ABUTMENTS AND WINGWALLS USING ITEM 512, SEE SHEET 4/9 FOR DETAILS.
- 2) ADD ROCK CHANNEL PROTECTION WITH GROUT AT BOTH ABUTMENTS AS DETAILED ABOVE. SEE SHEET 3/9 FOR SECTIONS F-F AND G-G.
- 3) REMOVE 1/4" OF EXISTING DECK AND PLACE NEW 1 1/4" THICK MICRO SILICA MODIFIED CONCRETE OVERLAY ON THE DECK, THE TOP OF NEW THE OVERLAY SHALL MATCH THE TOP OF THE EXISTING DECK SURFACE.
- 4) REPAIR STRUCTURE CURBS AT LOCATIONS SHOWN ABOVE AND AS PER DETAILS ON SHEET 3/9.



SECTION F-F



SECTION G-G



TYPICAL CURB REPAIR

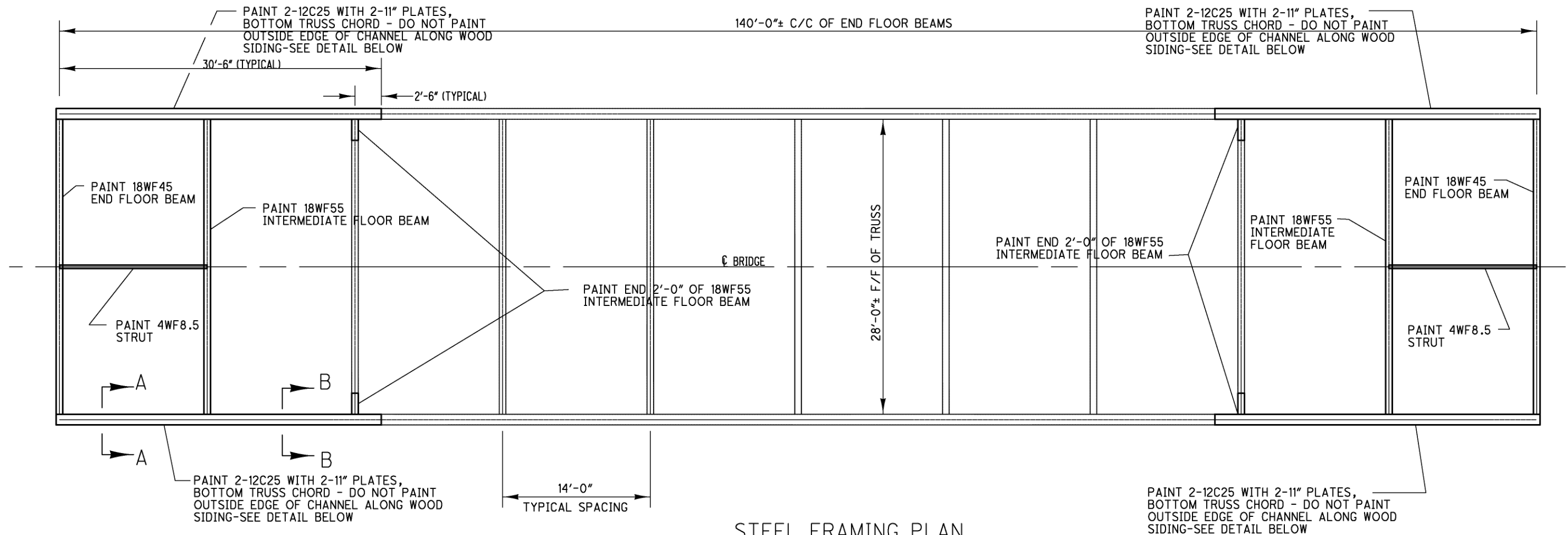


NOTES:

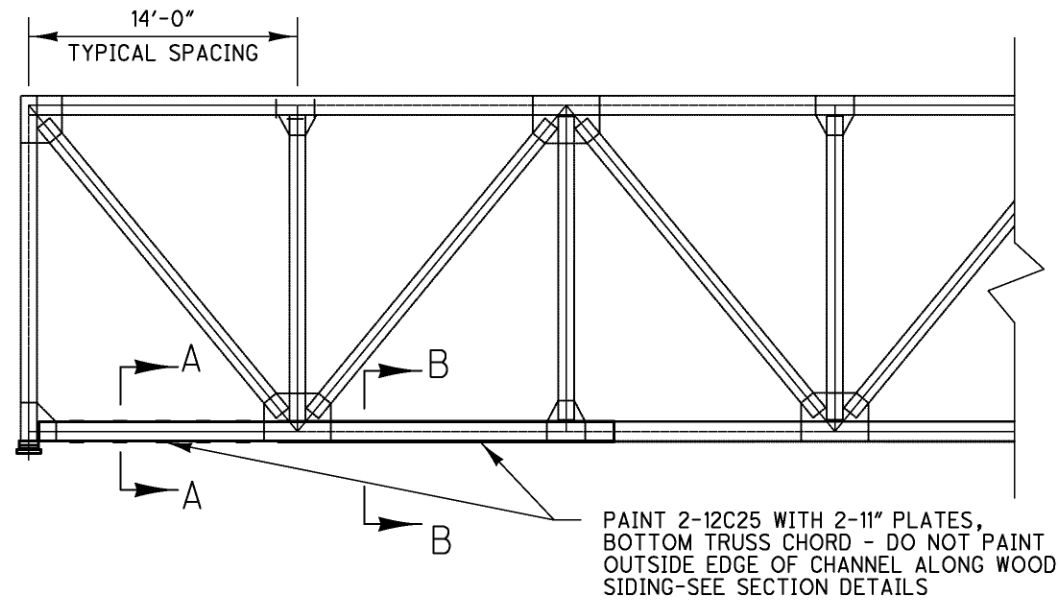
1. SEAL ENTIRE ABUTMENTS/WINGWALLS WITH ITEM 512.
2. ABUTMENT SEAT IS 1'-9" WIDE.

QUANTITIES CARRIED TO GENERAL SUMMARY.





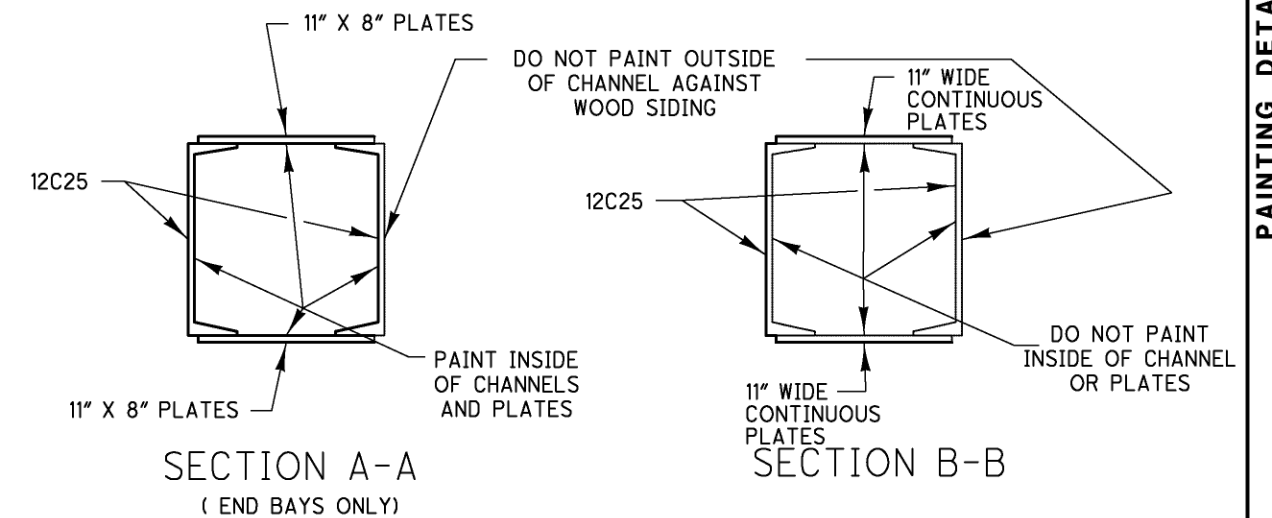
STEEL FRAMING PLAN



PARTIAL TRUSS ELEVATION

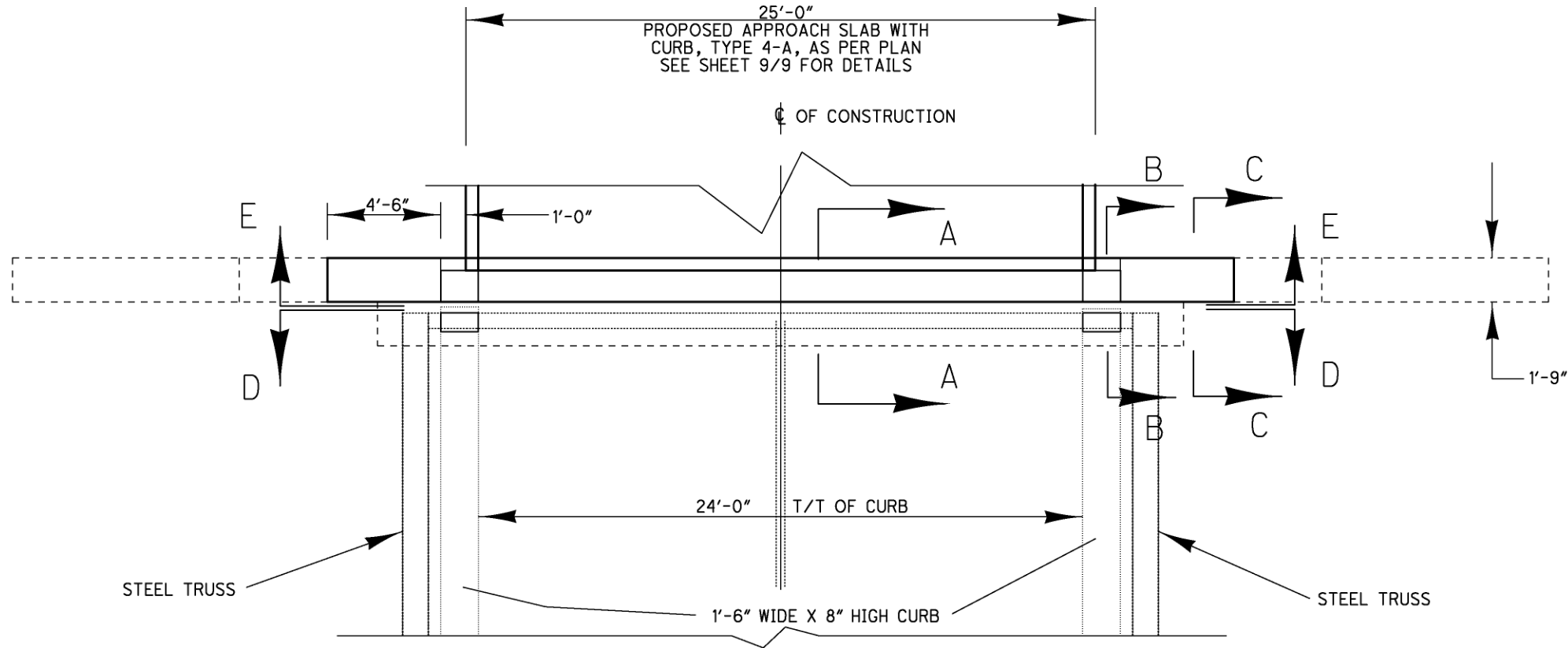
ITEM	QUANTITY	UNIT	DESCRIPTION
514	1153	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
514	1153	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
514	1153	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
514	1153	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
514	2	MAN HOUR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL
514	2	EACH	FINAL INSPECTION REPAIR

QUANTITIES CARRIED TO GENERAL SUMMARY.

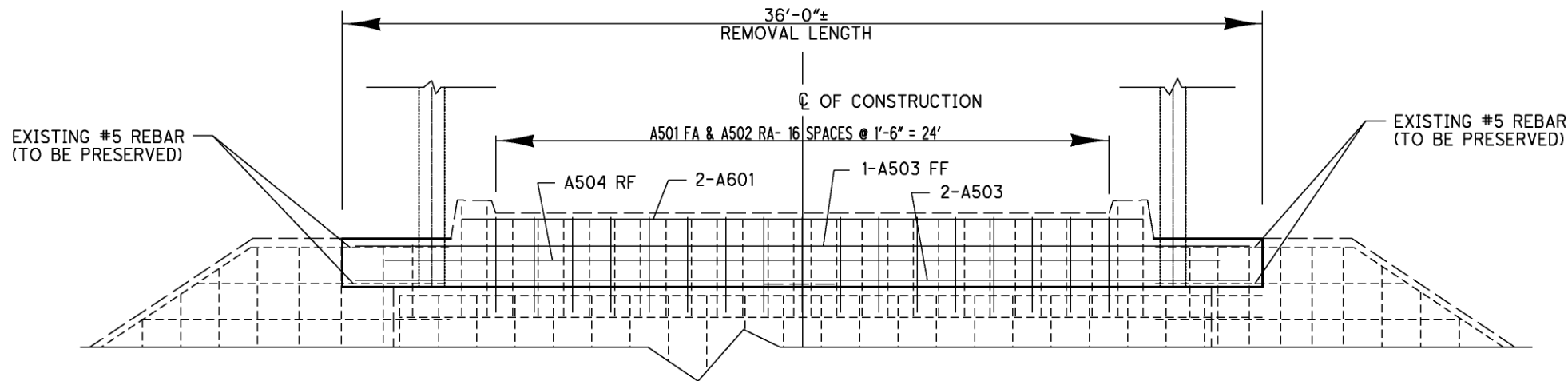


NOTES:

- 1) PAINT ENTIRE END FLOOR BEAMS, ENTIRE FIRST INTERMEDIATE FLOOR BEAMS, END 2'-0" OF SECOND INTERMEDIATE FLOOR BEAMS AND END SPAN STRUT AND PARTIAL BOTTOM TRUSS MEMBERS.
- 2) EXISTING STRUCTURAL STEEL IS A WEATHERING HIGH-STRENGTH STEEL.
- 3) PROTECT ALL AREAS THAT DOES NOT GET PAINTED.



PARTIAL ABUTMENT PLAN VIEW



SECTION E-E (REINFORCING STEEL)

ITEM	QUANTITY	UNIT	DESCRIPTION
202	13.9	CU YD	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
509	1089	POUND	EPOXY COATED REINFORCING STEEL
510	34	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	.2	CU YD	CLASS S CONCRETE, MISC.: CURB REPAIR
511	12.2	CU YD	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (REPAIR)
516	53	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL, AS PER PLAN

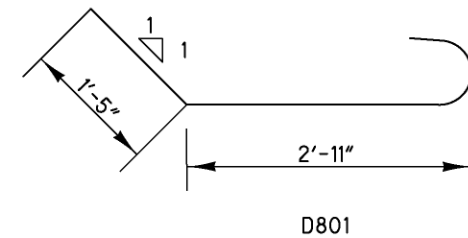
QUANTITIES CARRIED TO GENERAL SUMMARY.

LEGEND  
FA - FORWARD ABUTMENT  
RA - REAR ABUTMENT  
FF - FRONT FACE  
RF - REAR FACE

ITEM 509 - EPOXY COATED REINFORCING STEEL				
MARK	NUMBER	LENGTH	WEIGHT	TYPE
A501	17	3'-8"	65	STR.
A502	17	4'-1"	72	STR.
A503	6	35'-0"	219	STR.
A504	2	32'-8"	68	STR.
A601	4	26'-8"	160	STR.
D801	36	5'-3"	505	BENT
TOTAL			1089	

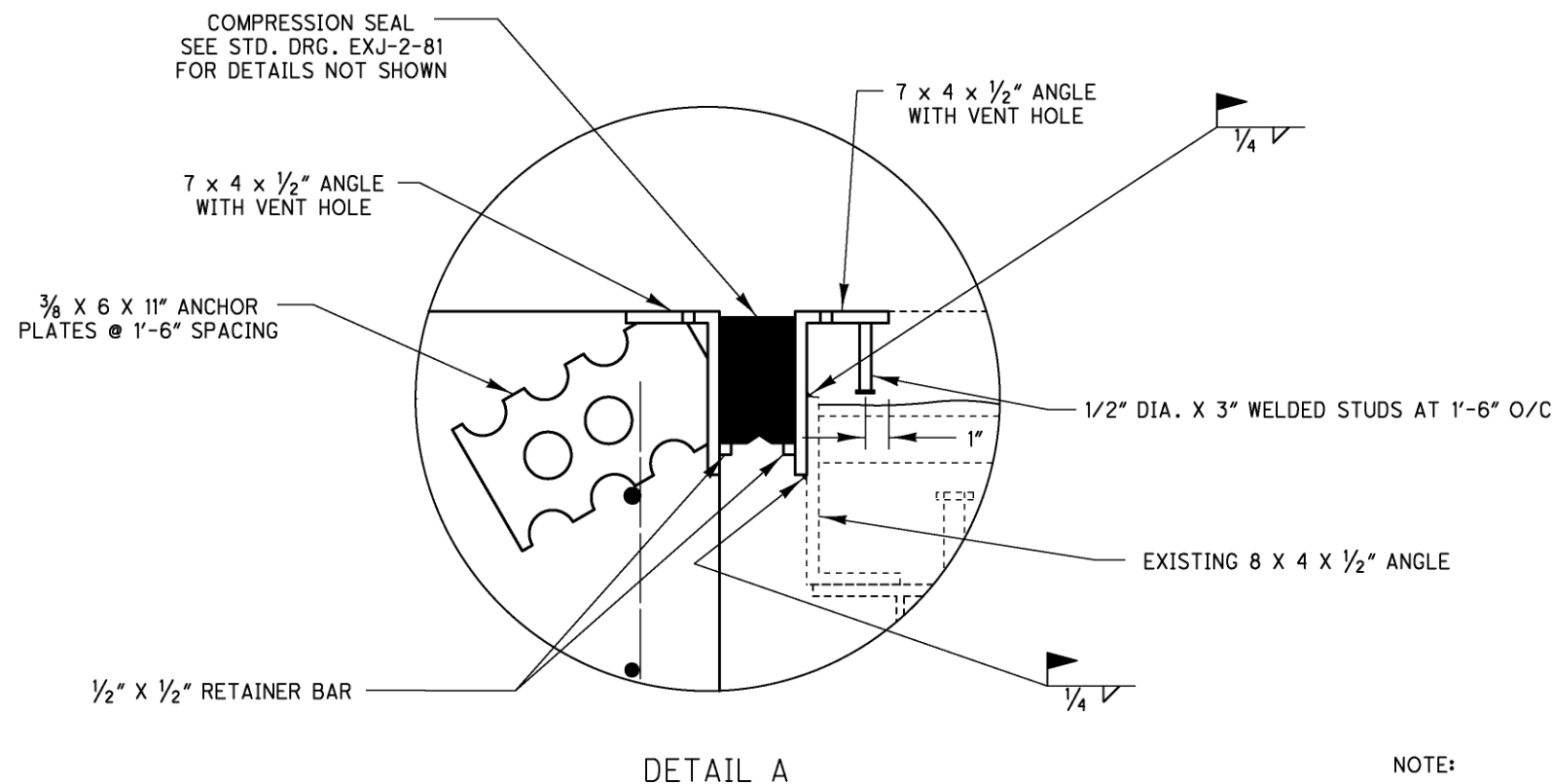
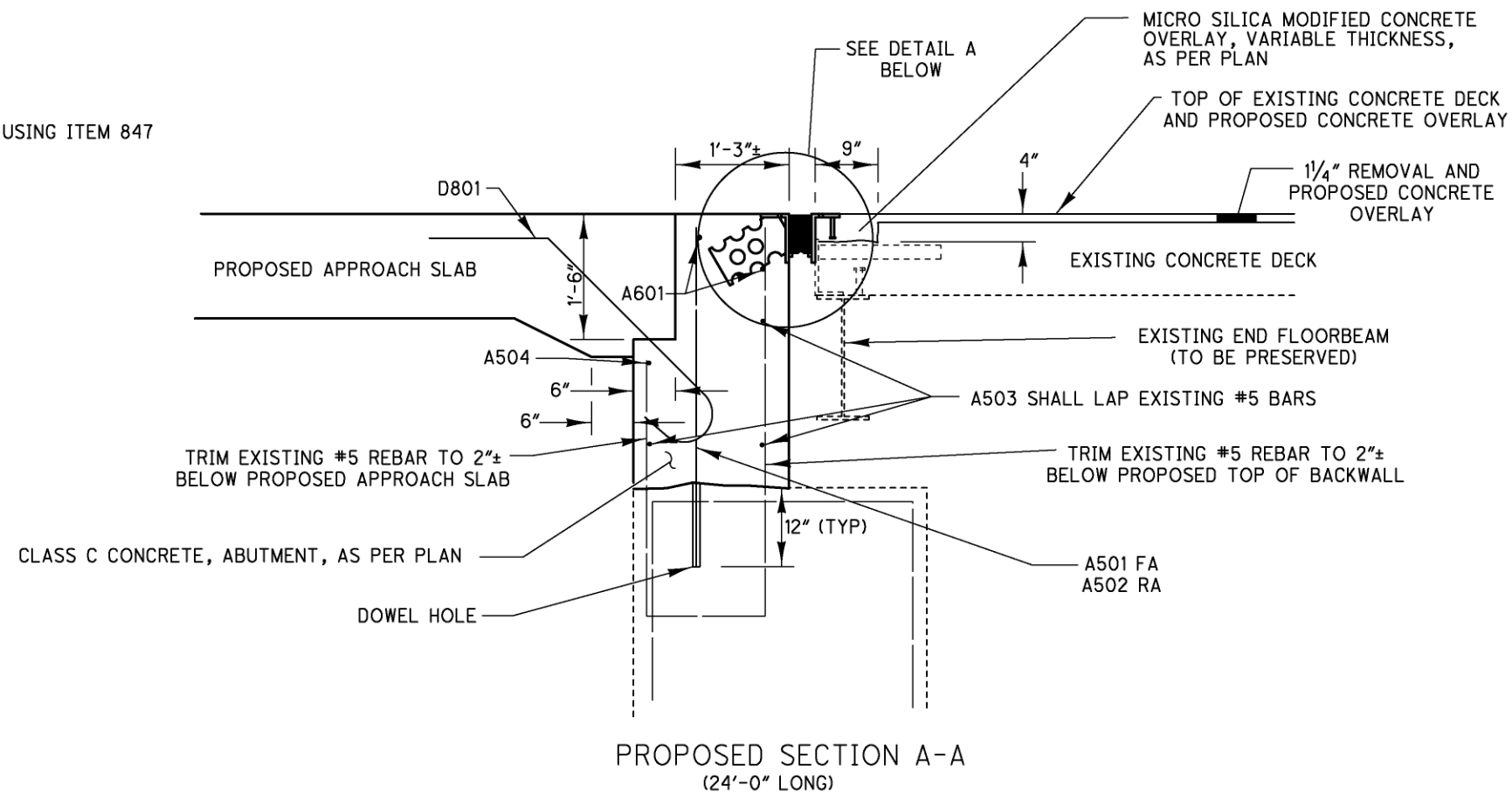
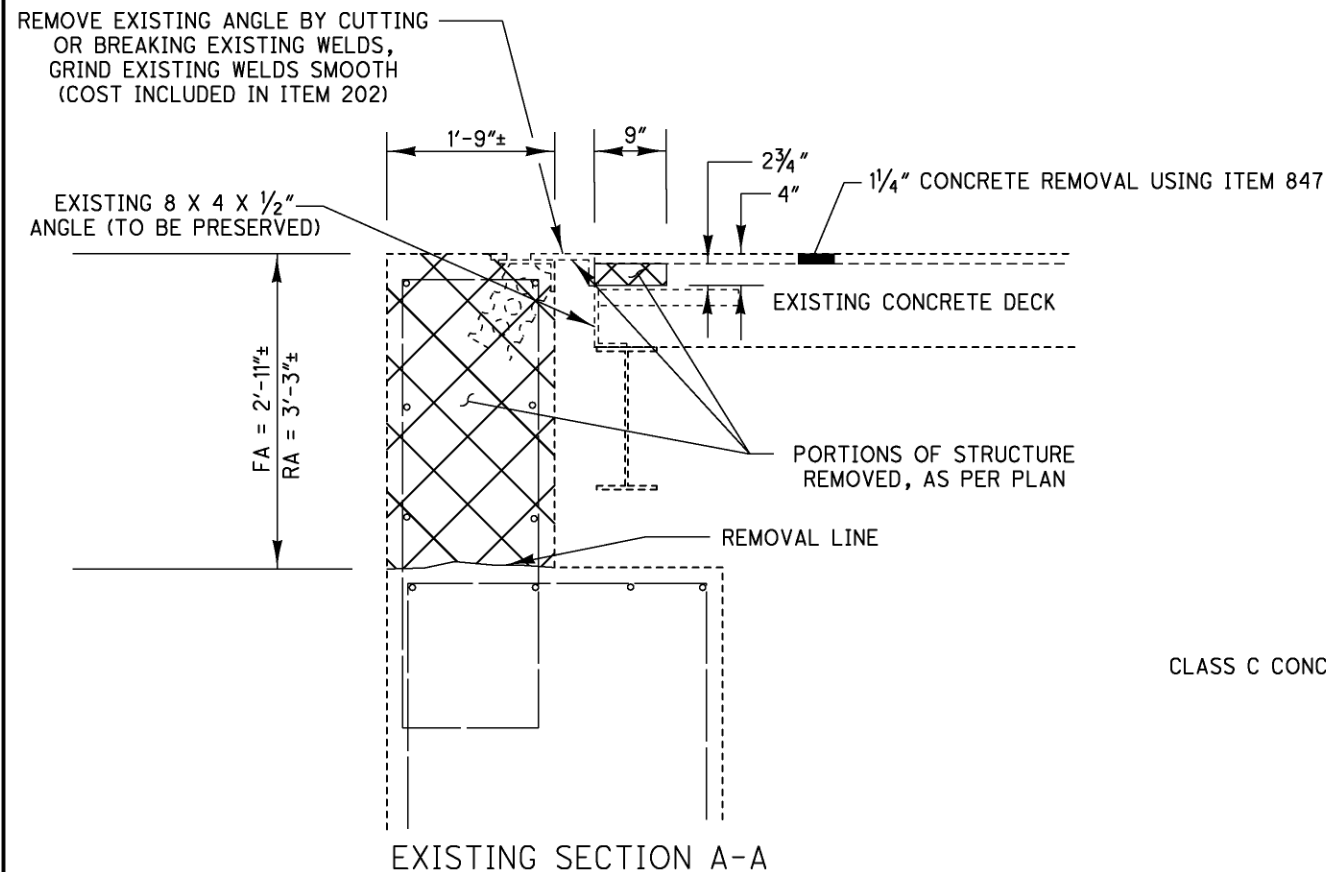
QUANTITIES CARRIED TO SHEET 6/9.

BENDING DIAGRAM



NOTES:

- 1) SEE SHEETS 7/9 AND 8/9 FOR SECTIONS A-A AND B-B.
- 2) SEE SHEETS 8/9 AND 9/9 FOR SECTIONS C-C, D-D AND E-E.
- 3) ALL EXISTING VERTICAL REBARS (TO BE PRESERVED)



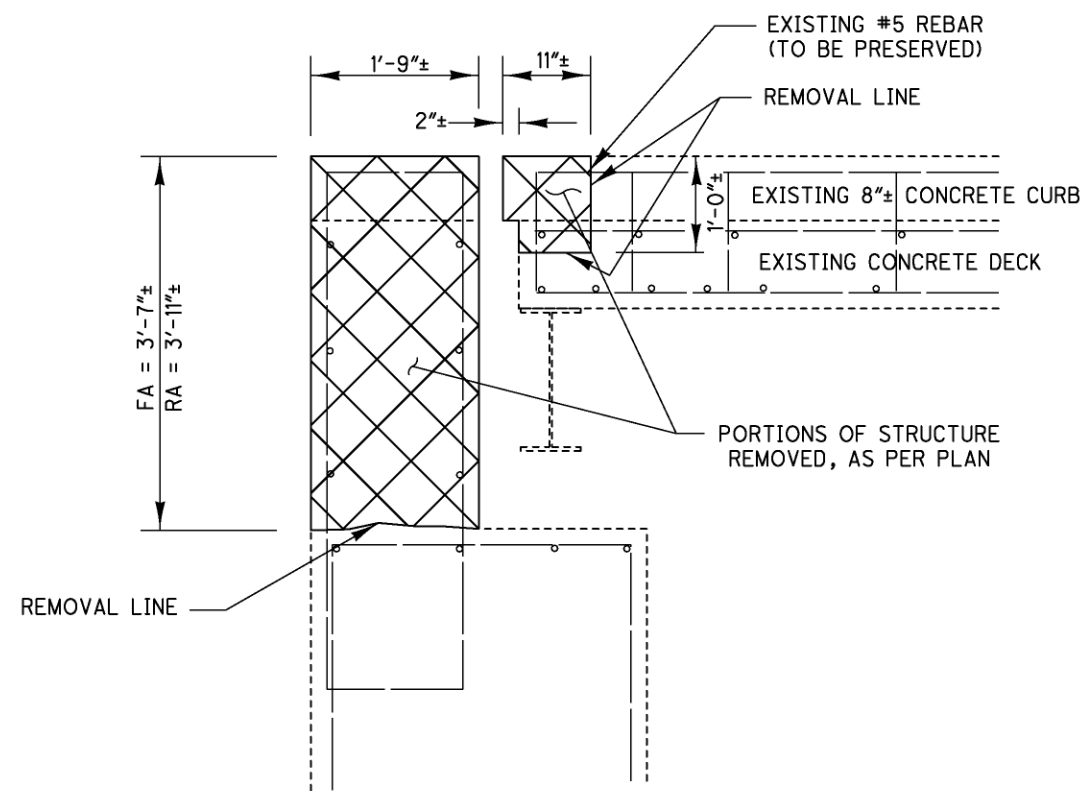
CONCRETE TO BE REMOVED  
USING ITEM 202

LEGEND

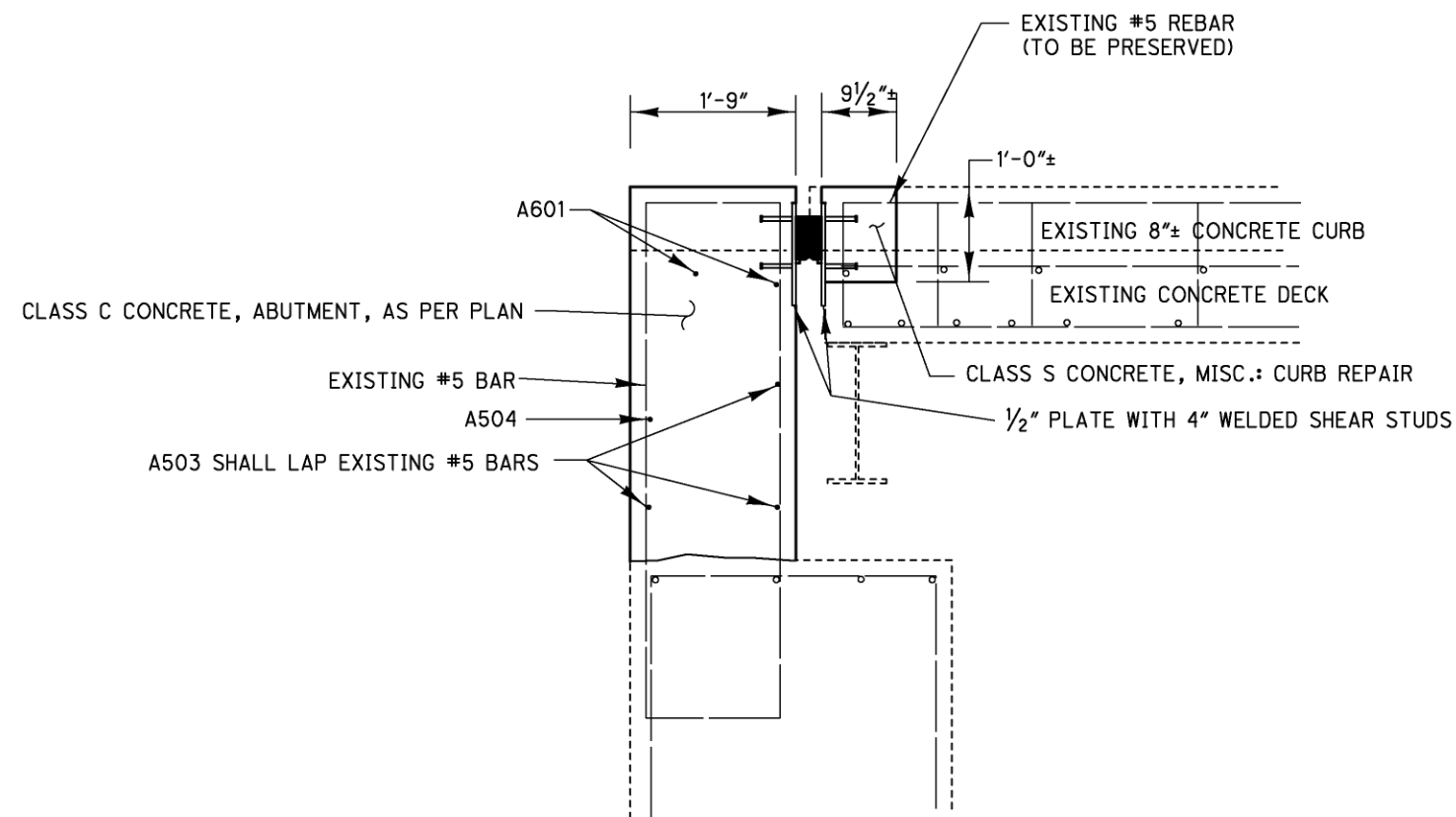
FA - FORWARD ABUTMENT  
RA - REAR ABUTMENT

NOTE:

- 1) SEE STD. DRG. EXJ-2-81 FOR EXPANSION JOINT DETAILS NOT SHOWN.
- 2) SEE STANDARD DRAWING AS-1-81 FOR APPROACH SLAB DETAILS NOT SHOWN.
- 3) ALL EXISTING VERTICAL REINFORCING BARS TO BE PRESERVED.



EXISTING SECTION B-B

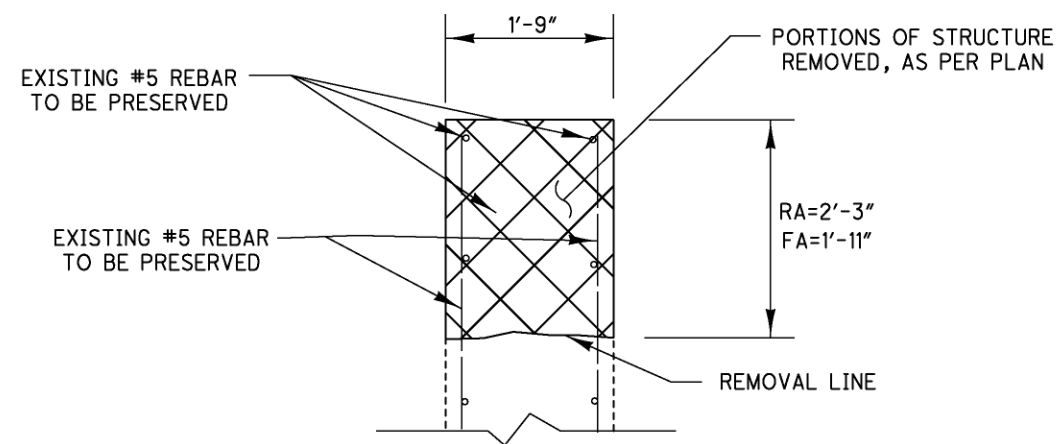


PROPOSED SECTION B-B

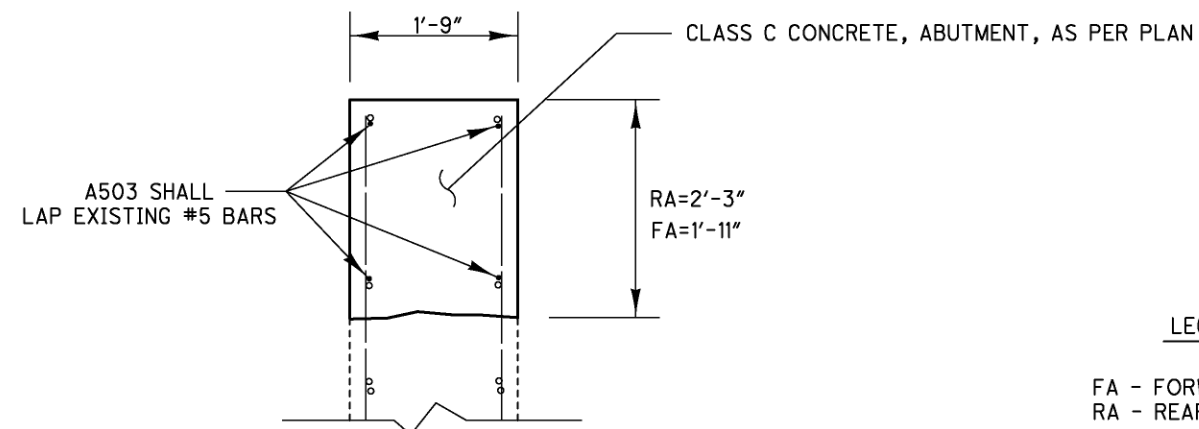
1'-6" LONG PER CORNER)



CONCRETE TO BE REMOVED  
USING ITEM 202



EXISTING SECTION C-C



PROPOSED SECTION C-C

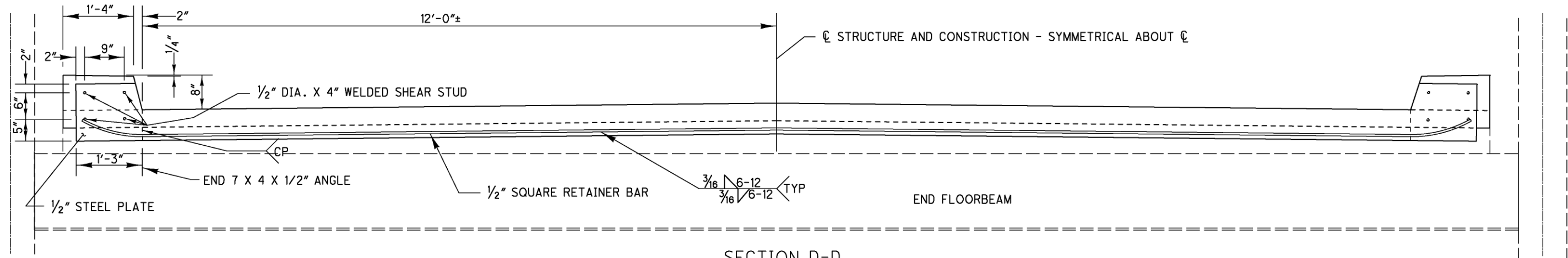
(4'-6" LONG PER CORNER)

LEGEND

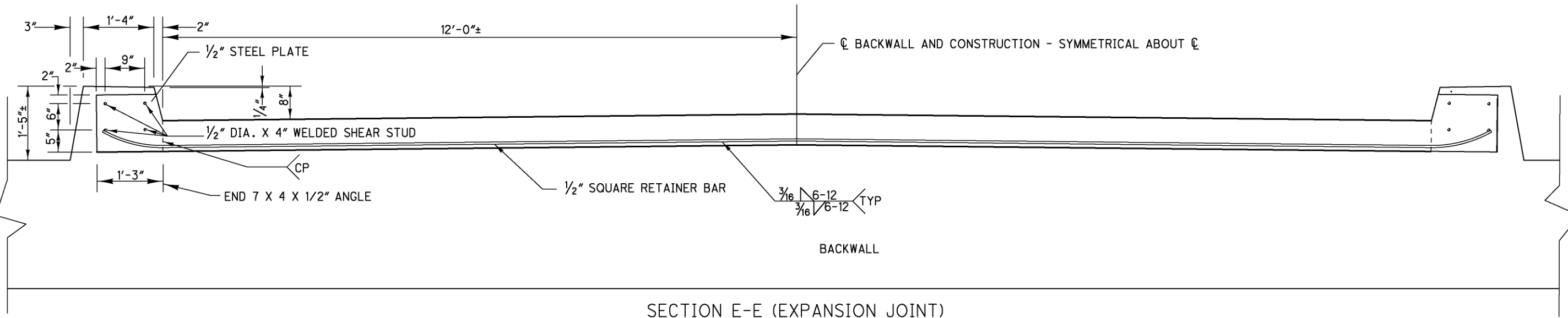
FA - FORWARD ABUTMENT  
RA - REAR ABUTMENT

NOTE:  
1) SEE STD. DRG. EXJ-2-81 FOR DETAILS NOT SHOWN





SECTION D-D



SECTION E-E (EXPANSION JOINT)

NOTE:  
1) SEE STD. DRG. EXJ-2-81 FOR DETAILS NOT SHOWN