SHEET NUMBER														ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	7	8	9	10	13	14A	15	15A	16	78	80								
																		ROADWAY	
														201	11000	1	LUMP	CLEARING AND GRUBBING	
								44						202	23010	44	SQ YD	PAVEMENT REMOVED, ASPHALT	
								206						202	30000	206	SQ FT	WALK REMOVED	
								39						202	32000	39	FT	CURB REMOVED	
								1						202	58100	1	EACH	CATCH BASIN REMOVED	
		33000												203	01890	33000	SQ YD	SPECIAL - SOIL STERILANT	
										6819	292			203	10000	7111	CU YD	EXCAVATION	
										3696				203	20000	3696	CU YD	EMBANKMENT	
							30608							204	10000	30608	SQ YD	SUBGRADE COMPACTION	
										4427				204	13000	4427	CU YD	EXCAVATION OF SUBGRADE	
										4660				204	30011	4660	CU YD	GRANULAR MATERIAL, TYPE B, AS PER PLAN	
	22													204	45000	22	HR	PROOF ROLLING	
										10348				204	50000	10348	SQ YD	GEOTEXTILE FABRIC	
								434						608	10000	434	SQ FT	4" CONCRETE WALK	
								282						608	53011	282	SQ FT	TRUNCATED DOMES, AS PER PLAN	
																		EROSION CONTROL	
		100												653	10001	100	CU YD	TOPSOIL FURNISHED AND PLACED, AS PER PLAN	
				2										659	00100	2	EACH	SOIL ANALYSIS TEST	
				3307										659	00300	3307	CU YD	TOPSOIL	
										29794				659	10000	29794	SQ YD	SEEDING AND MULCHING	
				1490										659	14000	1490	SQ YD	REPAIR SEEDING AND MULCHING	
				1490										659	15000	1490	SQ YD	INTER-SEEDING	
				4.15										659	20000	4.15	TON	COMMERCIAL FERTILIZER	
				0.68										659	31000	0.68	ACRE	LIME	
				165										659	35000	165	M GAL	WATER	
									1					832	15000	1	LUMP	STORM WATER POLLUTION PREVENTION PLAN	
									20000					832	30000	20000	EACH	EROSION CONTROL	
																		DRAINAGE	
		200												202	35100	200	FT	PIPE REMOVED, 24" AND UNDER	
								3						511	46600	3	CU YD	CLASS C CONCRETE, HEADWALL	
		50												603	00901	50	FT	6" CONDUIT, TYPE B 707.33, 707.42, AS PER PLAN	
		50												603	01101	50	FT	6" CONDUIT, TYPE C 707.33, 707.42, 707.43, 707.45 AS PER PLAN	
		250												603	01401	250	FT	6" CONDUIT, TYPE E 707.33, 707.42, 707.43, 707.45 AS PER PLAN	
		200												603	02601	200	FT	6" CONDUIT, TYPE F 707.33, 707.42, 707.43, 707.45 AS PER PLAN	
								436						603	04400	436	FT	12" CONDUIT, TYPE B (706.02)	
		200												603	04401	200	FT	12" CONDUIT, TYPE B, AS PER PLAN	
		200												603	04601	200	FT	12" CONDUIT, TYPE C, AS PER PLAN	
								1515						603	10400	1515	FT	24" CONDUIT, TYPE B (706.02)	
								2						604	04900	2	EACH	CATCH BASIN, NO. 2-3	
								6						604	31500	6	EACH	MANHOLE, NO. 3	
		3690												605	31100	3690	FT	AGGREGATE DRAINS	

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

CALCULATED TM | CHECKED JS/LE

GENERAL SUMMARY

SAN - NORTHCOAST
INLAND TRAIL PHASE 2

SHEET NUMBER														ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	7	8	9	10	13	14A	15	15A	16	78									
																		PAVEMENT	
							778							254	01001	778	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	
							5114							304	20000	5114	CU YD	AGGREGATE BASE	
							2064							407	10000	2064	GALLON	TACK COAT	
							1106							407	14000	1106	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
							960							448	46050	960	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
							1425							448	47020	1425	CU YD	ASPHALT CONCRETE SUFRACE COURSE, TYPE 1, PG64-22	
							857							452	10001	857	SQ YD	6" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN	
							155							452	12001	155	SQ YD	8" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN	
								22						609	12000	22	FT	COMBINATION CURB AND GUTTER, TYPE 2	
								15						609	26000	15	FT	CURB, TYPE 6	
																		TRAFFIC CONTROL	
						1013.0								630	03101	1013.0	FT	GROUND MOUNTED SUPPORT, No. 3 POST, AS PER PLAN	
						384.50								630	80100	384.50	SQ FT	SIGN, FLAT SHEET	
					0.21									642	00302	0.21	MILE	CENTER LINE, SINGLE SOLID TYPE 2	
					4.49									642	00302	4.49	MILE	CENTER LINE, SINGLE DASHED TYPE 2	
					90									642	00502	90	FT	STOP LINE, TYPE 2	
					239									642	00600	239	FT	CROSSWALK LINE, TYPE 1	
					45									642	00700	45	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	
					189									642	01202	189	FT	PARKING LOT STALL MARKING, TYPE 2	
					36									642	01382	36	EACH	WORD ON PAVEMENT, 48", TYPE 2	
					200									642	01500	20	FT	DOTTED LINE, 4", TYPE 1	
					1									642	01704	1	EACH	HANDICAP SYMBOL MARKING, TYPE 2	
																		STRUCTURES	
																		FOR ESTIMATED QUANTITIES SEE SHEETS 83 AND 86	
				40										616	10000	40	M GAL	WATER	
														614	10000	1	LUMP	MAINTAINING TRAFFIC	
														623	10000	1	LUMP	CONSTRUCTION LAYOUT STAKES	
														624	10000	1	LUMP	MOBILIZATION	

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

CALCULATED TM

CHECKED JS/LE

GENERAL SUMMARY

SAN - NORTHCOAST
INLAND TRAIL PHASE 2

SHEET NUMBER	STATION FROM	STATION TO	Ⓐ LENGTH	Ⓑ WIDTH	Ⓒ ITEM AREA (A x B) / 9	204 SUBGRADE COMPACTION, A.P.P.	254 PAVEMENT PLANING, 1"	304 4" AGGREGATE BASE Ⓒ x (4/36)	304 6" AGGREGATE BASE Ⓒ x (6/36)	304 8" AGGREGATE BASE Ⓒ x (8/36)	407 TACK COAT Ⓒ x (0.075)	407 TACK COAT FOR INTERMEDIATE COURSE Ⓒ x (0.04)	448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 Ⓒ x (1.25/36)	448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 Ⓒ x (1.75/36)	448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 Ⓒ x (4.75/36)	452 8" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN	452 6" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN
			FT	FT	SQ YD	SQ YD	SQ YD	CU YD	CU YD	CU YD	GAL	GAL	CU YD	CU YD	CU YD	SQ YD	SQ YD
19	0+18.96	0+28.26	9.3	22.28	23.02	23.02				5.12						23.02	
19	0+28.26	1+46.99	118.73	10.5	138.52	138.52				30.78							
19	0+28.26	1+46.99	118.73	10.0	131.92											131.92	
19	1+46.99	6+41.76	494.77	11.0	604.72	604.72		67.19									
19	1+46.99	6+41.76	494.77	10.0	549.74												549.74
19	6+86.86	9+63.62	297.76	11.0	338.26	338.26		37.58									
19	6+86.86	9+63.62	276.76	10.0	307.51												307.51
19	9+86.18	13+06.63	320.45	10.0	356.06		356.06				26.70	14.24	12.36	17.31			
19	13+58.73	17+38.41	379.68	10.0	421.87		421.87				31.64	16.87	14.65	20.51			
19-20	17+38.41	30+10.00	1271.59	11.0	1554.17	1554.17			259.03								
19-20	17+38.41	30+10.00	1271.59	10.0	1412.88						105.97	56.52	49.06	68.68			
20	30+10.00	31+60.00	150.00	11.0	183.33	183.33				40.74							
20	30+10.00	31+60.00	150.00	10.0	166.67						12.50	6.67	5.79		21.99		
20-21	31+60.00	56+52.25	2492.25	11.0	3046.08	3046.08			507.68								
20-21	31+60.00	56+52.25	2492.25	10.0	2769.17						207.69	110.77	96.15	134.61			
21	56+81.89	57+06.36	24.47	11.0	29.91	29.91			4.99								
21	56+81.89	57+06.36	24.47	10.0	27.19						2.04	1.09	0.94	1.32			
21-22	57+24.48	89+06.43	3181.95	11.0	3889.05	3889.05			648.18								
21-22	57+24.48	89+06.43	3181.95	10.0	3535.50						256.16	141.42	122.76	171.86			
22-23	89+34.05	98+25.29	891.24	11.0	1089.29	1089.29			181.55								
22-23	89+34.05	98+25.29	891.24	10.0	990.27						74.27	39.61	34.38	48.14			
23	98+36.37	112+04.64	1368.27	11.0	1672.33	1672.33			278.72								
23	98+36.37	112+04.64	1368.27	10.0	1520.30						114.02	60.81	52.79	73.90			
23-25	112+15.04	144+40.03	3224.99	11.0	3941.65	3941.65			656.94								
23-25	112+15.04	144+40.03	3224.99	10.0	3583.32						268.75	143.33	124.42	174.19			
25	144+55.07	160+99.09	1644.02	11.0	2009.36	2009.36			334.89								
25	144+55.07	160+99.09	1644.02	10.0	1826.69						137.00	73.07	63.43	88.80			
25	160+99.09	161+19.13	20.04	11.0	24.49	24.49				5.44							
25	160+99.09	161+19.13	20.04	10.0	22.27						1.67	0.89	0.77		2.94		
25-26	161+19.13	176+28.34	1509.21	11.0	1844.59	1844.59			307.43								
25-26	161+19.13	176+28.34	1509.21	10.0	1676.90						125.77	67.08	58.23	81.52			
26	176+28.34	176+51.62	23.28	11.0	28.47	28.47				6.33							
26	176+28.34	176+51.62	23.28	10.0	25.87						1.94	1.03	0.90		3.41		
26	176+51.62	182+05.70	554.08	11.0	677.21	677.21			112.87								
26	176+51.62	182+05.70	554.08	10.0	615.64						46.17	24.63	21.38	29.93			
26	182+05.70	182+26.86	21.16	11.0	25.86	25.86				5.75							
26	182+05.70	182+26.86	21.16	10.0	23.51						1.76	0.94	0.82		3.10		
26-27	182+26.86	210+00.00	2773.14	11.0	3389.39	3389.39			564.90								
26-27	182+26.86	210+00.00	2773.14	10.0	3081.27						231.10	123.25	106.99	149.78			
27-28	210+00.00	226+03.80	1603.80	11.0	1960.20	1960.20			326.70								
27-28	210+00.00	226+03.80	1603.80	10.0	1782.00						133.65	71.28	61.88	86.63			
28-30	226+21.83	253+93.79	2771.96	11.0	3387.95	3387.95			564.66								
28-30	226+21.83	253+93.79	2771.96	10.0	3079.96						231.00	123.20	106.94	149.72			
28	PARKING LOT				749.83*	749.83				166.63							
					728.20*						54.62	29.13	25.28		96.08		
TOTALS CARRIED TO GENERAL SUMMARY						30608	778	105	4749	261	2064	1106	960	1297	128	155	857

* SURFACE AREA CAD GENERATED

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

CALCULATED TM
CHECKED JS/LE

PAVEMENT CALCULATIONS

SAN - NORTHCOAST
INLAND TRAIL PHASE 2

SHEET NUMBER	STATION FROM	STATION TO	SIDE	202 PAVEMENT REMOVED, ASPHALT (SQ YD)	202 CURB REMOVED (FT)	202 CATCH BASIN REMOVED (EACH)	202 WALK REMOVED (SQ FT)	608 4" CONCRETE WALK (SQ FT)	608 TRUNCATED DOMES, AS PER PLAN (SQ FT)	609 COMBINATION CURB AND GUTTER, TYPE 2 (FT)	609 CURB, TYPE 6 (FT)
19	0+28.26	0+45.00	LT		17						
19	0+18.96	–	–		22						
19	1+67.87	1+89.57	RT					131			
19	1+91.07	2+12.80	LT					132			
19	0+18.26	0+28.26	–				206				
19	0+18.96	–	–						44		
19	0+18.96	–	–							22	
19	0+28.26	0+38.83	LT	7							
19	0+28.26	0+52.62	LT								15
19	6+41.76	–	–						40		
19	6+86.86	–	–						35		
19	9+47.97	9+55.47	LT					40			
19	9+54.85	9+62.59	RT					51			
19	9+86.83	9+93.70	LT					40			
19	9+93.70	10+00.99	RT					40			
19	9+63.62	–	–						15		
19	9+86.18	–	–						15		
19	14+51.25	14+68.47	RT	37							
20	30+03.54	–	LT			1					
21	56+52.25	–	–						15		
21	56+81.89	–	–						15		
22	89+06.43	–	–						16		
22	89+34.05	–	–						16		
23	98+25.29	–	–						15		
23	98+36.37	–	–						15		
25	144+40.03	–	–						15		
25	144+55.07	–	–						15		
28	226+05.06	–	–						14		
28	226+23.09	–	–						14		
30	253+93.79	–	–						29		
SUB-TOTALS THIS COLUMN				44	39	1	206	434	282	22	15
TOTALS TO GENERAL SUMMARY				44	39	1	206	434	282	22	15

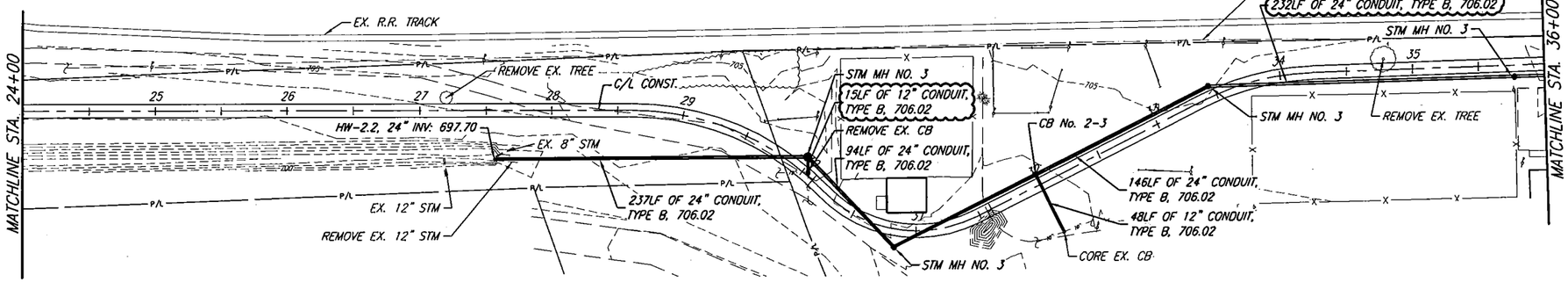
SHEET NUMBER	STATION FROM	STATION TO	SIDE	511 CLASS C CONCRETE, HEADWALL (CU YD)	603 12" CONDUIT, TYPE B (706.02) (FT)	603 24" CONDUIT, TYPE B (706.02) (FT)	604 CATCH BASIN, NO. 2-3 (EACH)	604 MANHOLE, NO. 3 (EACH)
19	13+35.96	17+20.65	LT			385		
19	17+20.65	–	LT					1
19	17+2.65	17+35.25	–			48		
19	17+19.25	–	RT				1	
19	17+19.50	–	RT			2		
19	17+35.25	–	RT	1				
20	27+56.27	–	–	1				
20	27+56.27	29+96.12	–			237		
20	29+96.16	–	LT					1
20	29+96.16	30+03.54	LT		15			
20	29+96.16	30+85.38	–			94		
20	30+85.38	–	RT					1
20	30+85.38	33+46.63	–			146		
20	32+00.85	–	LT				1	
20	32+00.85	32+00.85	–		48			
20	33+46.63	–	LT					1
20	33+46.63	35+77.26	–			232		
20	35+77.26	–	RT					1
20	35+77.26	38+08.53	–			231		
20	38+08.53	–	RT					1
20	38+08.53	39+49.33	RT			140		
20	39+49.33	–	RT	1				
21	88+50.00	90+50.21	RT		200			
23	97+51.82	99+24.69	RT		173			
SUB-TOTALS THIS COLUMN				3	436	1515	2	6
TOTALS TO GENERAL SUMMARY				3	436	1515	2	6

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

CALCULATED TM
CHECKED JS/LE

ESTIMATED QUANTITIES

SAN - NORTHCOAST
INLAND TRAIL PHASE 2



CROSS REFERENCES	
SHEET	DESCRIPTION
2	SCHEMATIC CONTROL
2	SUSPEND-RESUME FLAGS
4	REFERENCES & BENCH MARKS
81	TRAFFIC CONTROL DETAILS

HW-2.2
STA. 27+56.27, 36.7'R
24" INV: 697.70

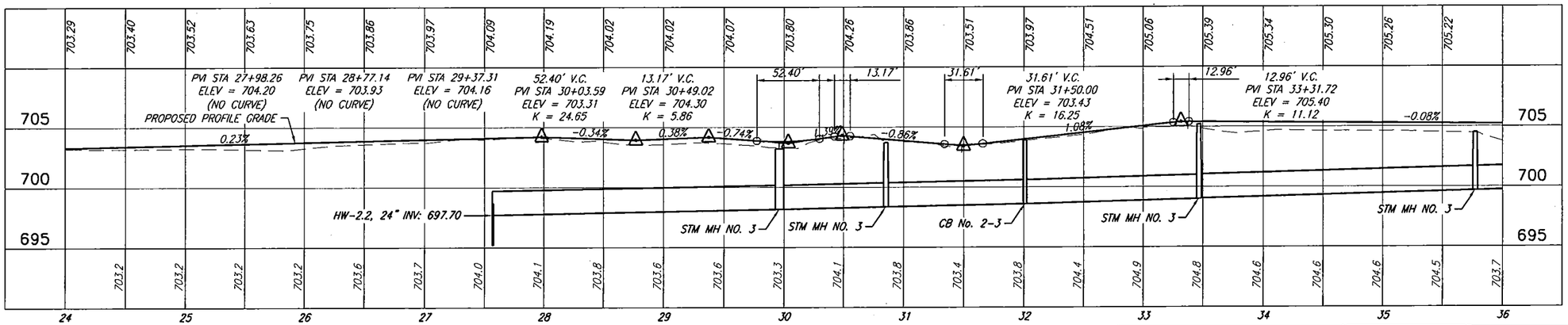
STM MH No. 3- 72"
(INLET MH COVER)
STA. 29+96.16, 11'L
RIM: 703.20
24" E&W INV: 698.18
12" S INV: 698.18

STM MH No. 3- 48"
STA. 30+85.38, 13.4'R
RIM: 703.70
24" NW&NE INV: 698.37

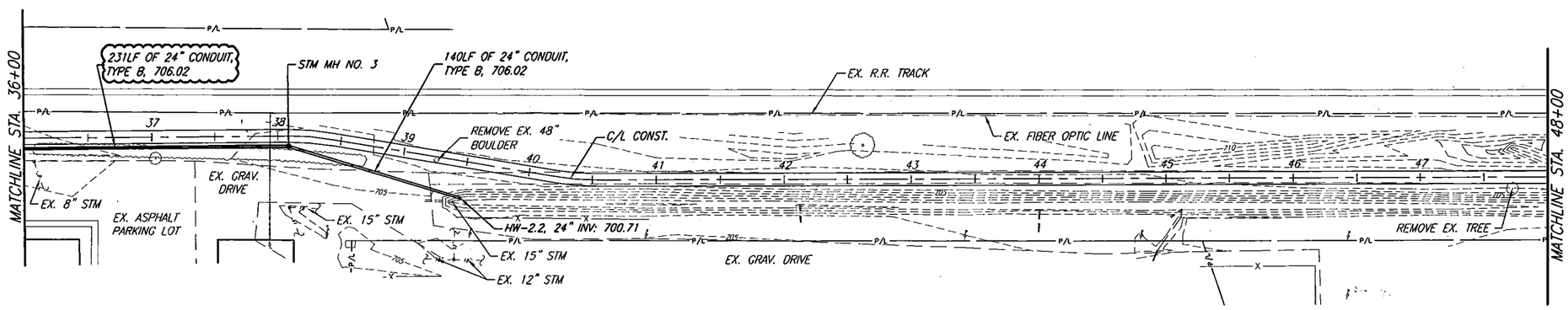
CB No. 2-3
STA. 32+00.85, 8.0'L
RIM: 703.90
24" SW&NE INV: 698.61
12" SE INV: 698.61

STM MH No. 3 - 48"
STA. 33+46.63, 8.2'L
RIM: 705.20
24" SW&E INV: 699.02

STM MH No. 3 - 48"
STA. 35+77.26, 8.2'R
RIM: 704.50
24" W&E INV: 699.67

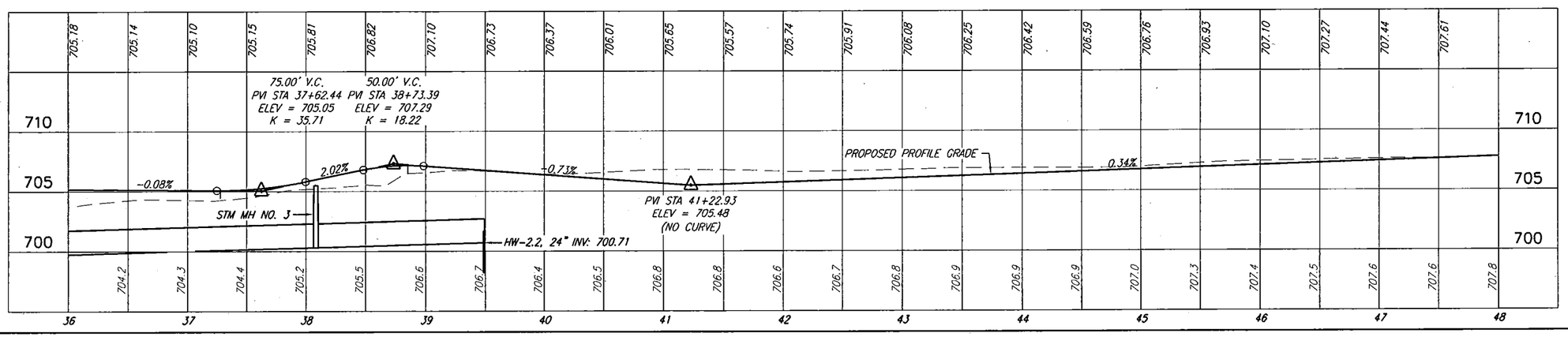


NOTE: EXISTING UTILITIES NOT SHOWN IN PROFILE FOR CLARITY



STM MH No. 3 - 48"
STA. 38+08.53, 8.0'R
RIM: 705.50
24" W&SE INV: 700.32

HW-2.2
STA. 39+49.33, 29.0'R
24" INV: 700.71



NOTE: EXISTING UTILITIES NOT SHOWN IN PROFILE FOR CLARITY

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

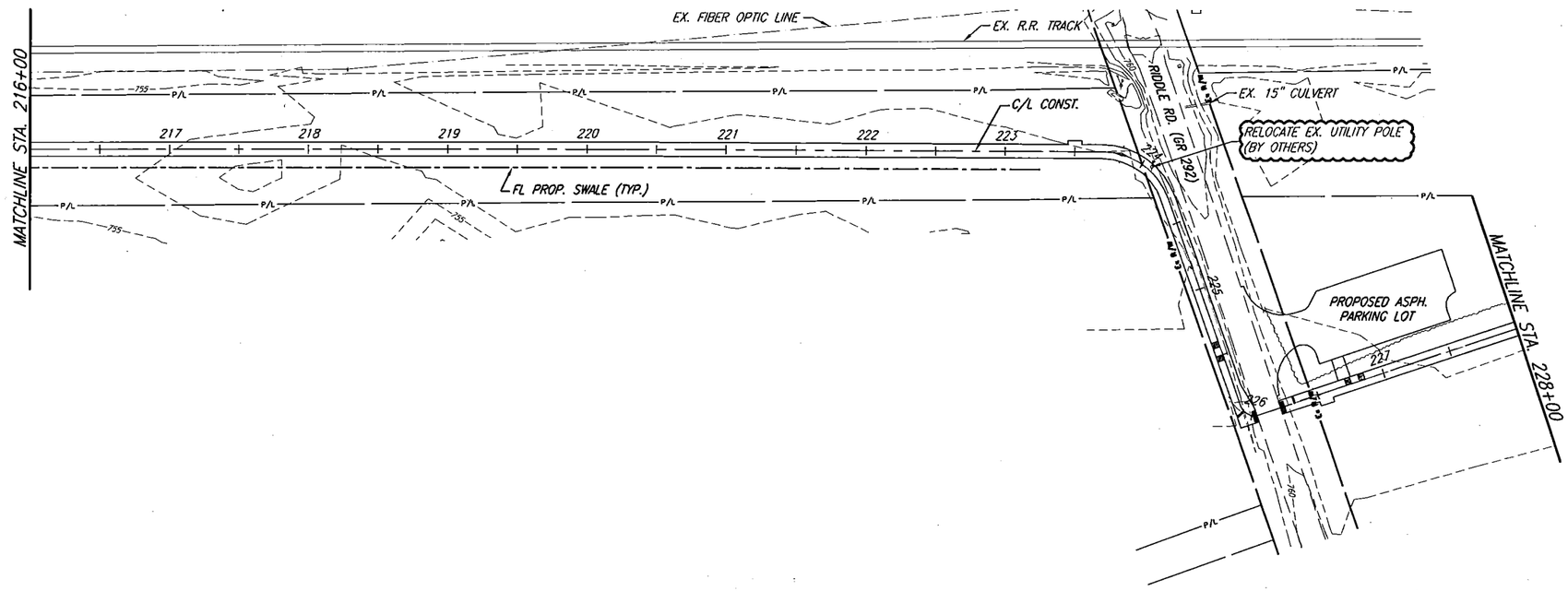
HORIZONTAL SCALE IN FEET 0 50 100

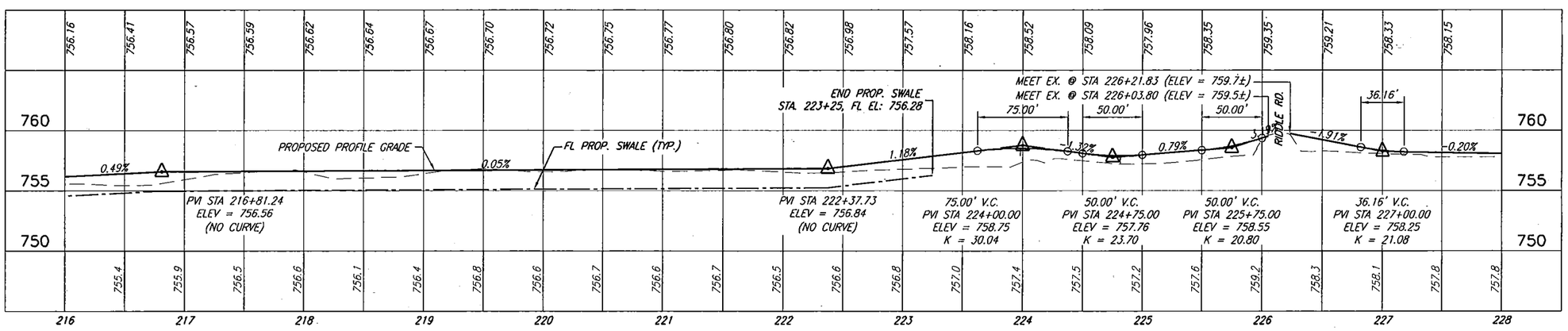
CALCULATED TM
CHECKED JS/LE

PLAN AND PROFILE STA. 24+00 TO STA. 48+00

SAN - NORTH COAST INLAND TRAIL PHASE 2

CROSS REFERENCES	
SHEET	DESCRIPTION
4	SCHEMATIC CONTROL
4	SUSPEND-RESUME FLAGS
4	REFERENCES & BENCH MARKS
81	TRAFFIC CONTROL DETAILS
80	PARKING LOT & PVMT. DETAILS





NOTE: EXISTING UTILITIES NOT SHOWN IN PROFILE FOR CLARITY

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

N

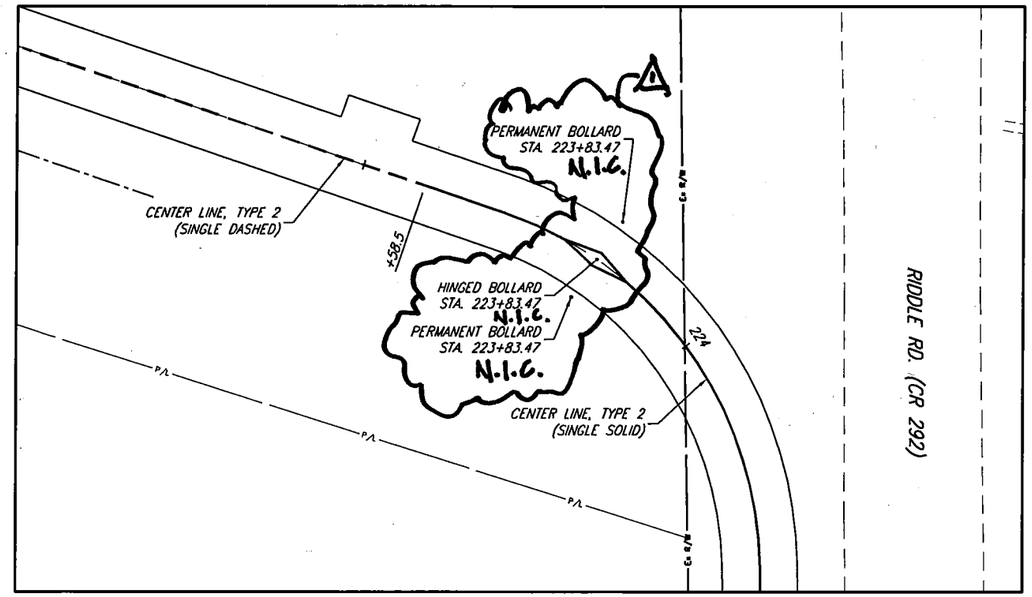
0 50 100
HORIZONTAL SCALE IN FEET

CALCULATED TM
CHECKED JS/LE

PLAN AND PROFILE
STA. 216+00 TO STA. 228+00

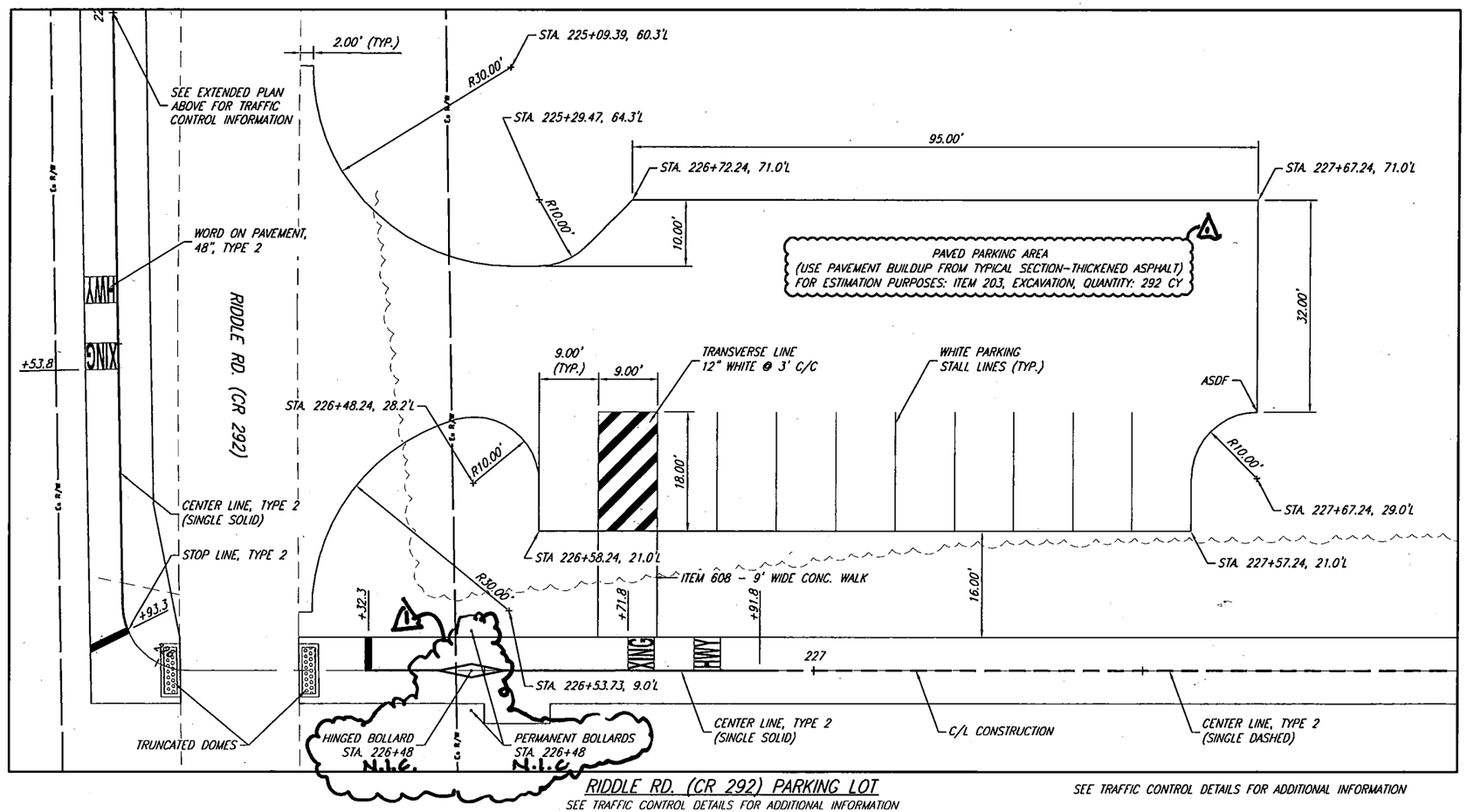
SAN - NORTH COAST
INLAND TRAIL PHASE 2

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1



RIDDLE RD. (CR 292) PARKING LOT (EXTENDED)

SEE TRAFFIC CONTROL DETAILS FOR ADDITIONAL INFORMATION



RIDDLE RD. (CR 292) PARKING LOT

SEE TRAFFIC CONTROL DETAILS FOR ADDITIONAL INFORMATION

SEE TRAFFIC CONTROL DETAILS FOR ADDITIONAL INFORMATION

N

HORIZONTAL SCALE IN FEET 0 10 20

CALCULATED TM | CHECKED LE/JS

RIDDLE ROAD (CR 292)
PARKING LOT AND PAVEMENT DETAILS

SAN - NORTHCOAST
INLAND TRAIL PHASE 2

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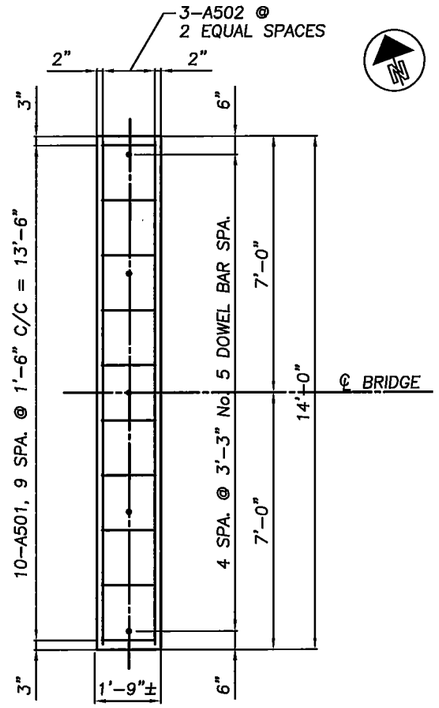
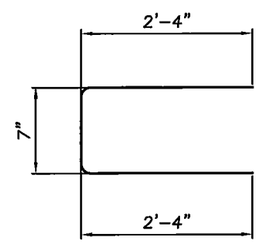


ABUTMENT CAP REINFORCING PLAN

ESTIMATED QUANTITIES

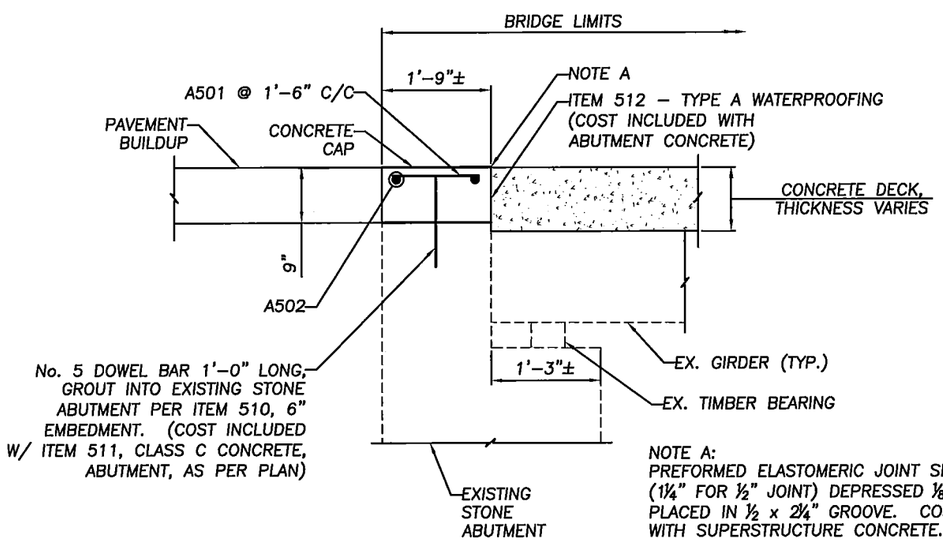
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	SUPER	GENERAL
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN			LUMP
509	10000	955	POUNDS	EPOXY COATED REINFORCING STEEL			955
511	31500	5	CU. YD.	CLASS S CONCRETE, SUPERSTRUCTURE		5	
511	45701	2	CU. YD.	CLASS C CONCRETE, ABUTMENT, AS PER PLAN	2		
512	10100	4	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY–URETHANE)		4	
517	74001	66	FT	RAILING, TIMBER, AS PER PLAN		66	
SPECIAL	51822301	12	FT	STEEL DRIP STRIP, AS PER PLAN		12	



S502

REINFORCING STEEL LIST

MARK	TOTAL	LENGTH	WEIGHT (POUNDS)
A501	20	1'–5"	30
A502	6	13'–8"	86
S401	26	10'–2"	177
S501	34	13'–8"	485
S502	34	5'–0"	177
		TOTAL	955
ALL BARS SHALL BE EPOXY COATED			



NOTE A:
PREFORMED ELASTOMERIC JOINT SEALER 705.11 (1¼" FOR ½" JOINT) DEPRESSED ⅛" BELOW PATH, PLACED IN ½ x 2¼" GROOVE. COST INCLUDED WITH SUPERSTRUCTURE CONCRETE.

ABUTMENT SECTION A–A

(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)

REFERENCE SHALL BE MADE TO STANDARD DRAWING(S):

DS–I–92 REVISED 7–18–03

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERCIAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

H15–44 VEHICLE AND 85 PSF PEDESTRIAN LOAD
FUTURE WEARING SURFACE = 60 PSF

DESIGN DATA

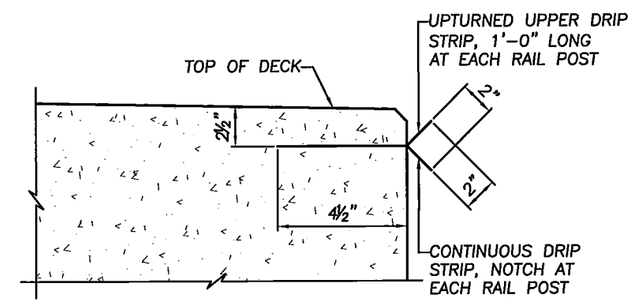
CONCRETE CLASS C – COMPRESSIVE STRENGTH 4000 P.S.I. (SUBSTRUCTURE)

CONCRETE CLASS S – COMPRESSIVE STRENGTH 4500 P.S.I. (SUPERSTRUCTURE)

REINFORCING STEEL – ASTM A615, A616, OR A617
GRADE 60 MINIMUM YIELD STRENGTH 60,000 P.S.I.

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

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND DIRECTED TO BE REMOVED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE CLEANING THE BEAMS/GIRDERS, CROSS FRAMES AND BEAM SEATS OF DEBRIS TO THE SATISFACTION OF THE ENGINEER.



DRIP STRIP DETAIL

SEE STD. DWG. DS–I–92 FOR ADDTIONAL DETAILS

REV	DATE	DESCRIPTION
1	04/09/2012	ADDENDUM 1

DESIGN AGENCY
CDM Smith
1468 W. 6TH STREET, SUITE 750
CLEVELAND, OHIO 44113

DESIGNED	DRAWN	REVIEWED	DATE
YRY	BDM	RBP	2/21/12
CHECKED	REVISED	STRUCTURE FILE NUMBER	
BMG	.		

DETAILS, NOTES, REINFORCING TABLE AND ESTIMATED QUANTITIES
RAILROAD STRUCTURE
OVER CREEK NEAR STA. 112+00

SAN–NORTH COAST
INLAND TRAIL

2 / 3

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