



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

May 16, 2011

CALL NO. 100
CONTRACT ID NO. 111305
ADDENDUM # 2

Subject: Jefferson County, IM 2652 (024)
Letting May 20, 2011

- (1) Revised - Plan Sheets - R2A, R2B, R2C, R2E, & R2F
- (2) Revised - Bid Items - Pages 122-128 of 128

Proposal revisions are available at <http://transportation.ky.gov/contract/>.
Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

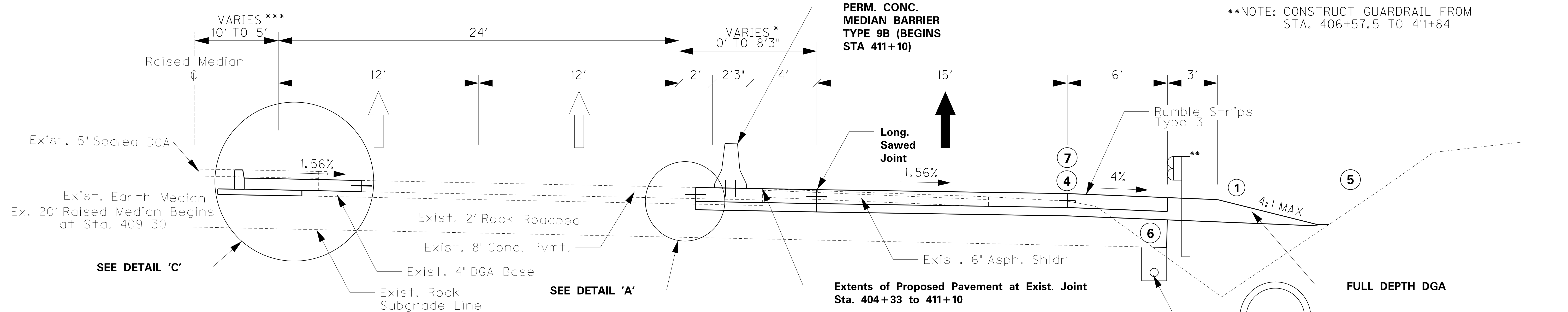
TYPICAL SECTION

STA. 404+33 to STA. 411+84

***NOTE: BEGIN 50:1 TRANSITION OF THRU LANES AT STATION 408+37

*NOTE: BEGIN TRANSITION FROM 0 TO 6'-3" AT STATION 406+75

**NOTE: CONSTRUCT GUARDRAIL FROM STA. 406+57.5 TO 411+84



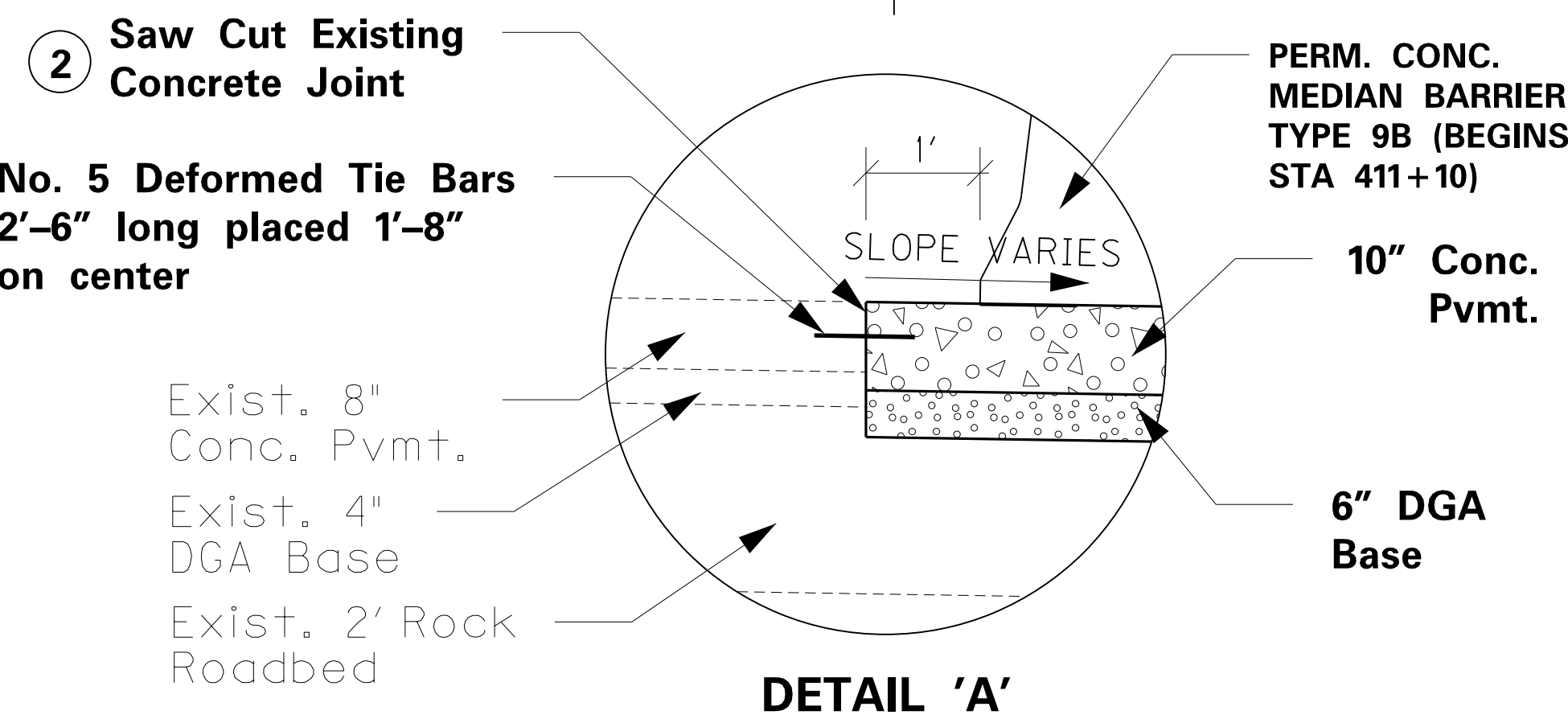
NEW CONSTRUCTION GRADE, DRAIN, AND RIGID PAVEMENT USING

PAVEMENT DESIGN

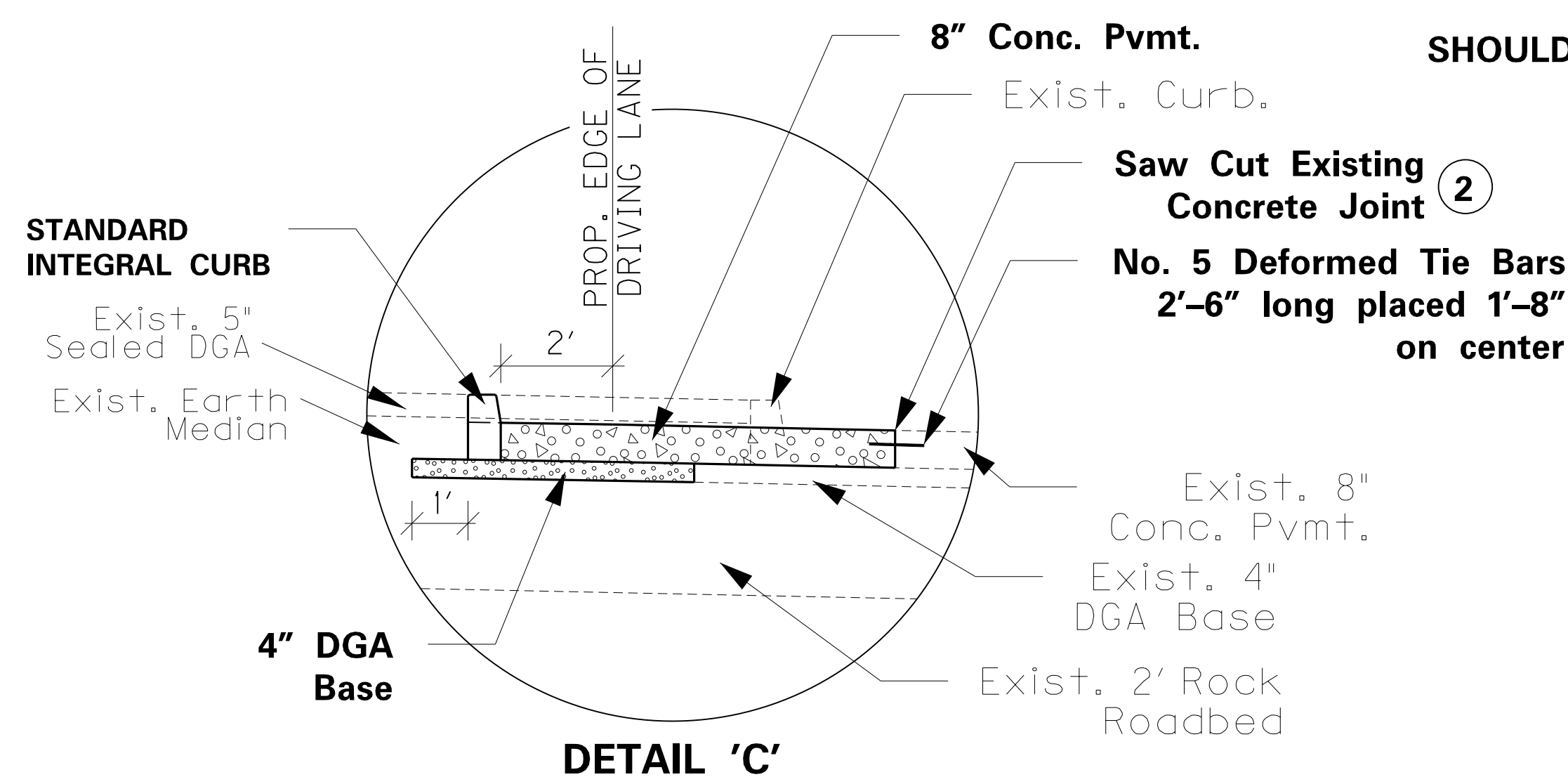
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SHOULDER	—	FULL DEPTH COMPACTED DENSE GRADED AGGREGATE BASE (AS INDICATED) 10" JOINTED PLAIN CONCRETE (NON-REINFORCED)

GENERAL NOTES

- ① ASPHALT SEAL COAT REQUIRED FROM EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. 2.4 LB PER SQUARE YARD OF ASPHALT SEAL COAT (TWO APPLICATIONS) 20 LB PER SQUARE YARD OF ASPHALT SEAL AGGREGATE (SIZE NO. 8 OR 9M) (TWO APPLICATIONS)
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- ⑦ HOOK BOLTS WITH EXPANSION ANCHORS ARE TO BE USED AT CEDAR SPRINGS BLVD. (STA. 404+33 TO STA. 405+81.) CONTRARY TO THE STANDARD DRAWING RPS-010-10, HOOK BOLTS WITH EXPANSION ANCHORS ARE TO BE SPACED AT 3'-0" ON CENTER.



DETAIL 'A'



DETAIL 'C'

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$designsfiles\$specifications\$\$\$
 E-SHEET NAME:

NTS

1	PROPOSED PAVEMENT JOINT MOVED	5/11/11

TYPICAL SECTION
 US 31E - SOUTHBOUND
 STA. 404+33 TO STA. 411+84

△ REVISED 5-12-11

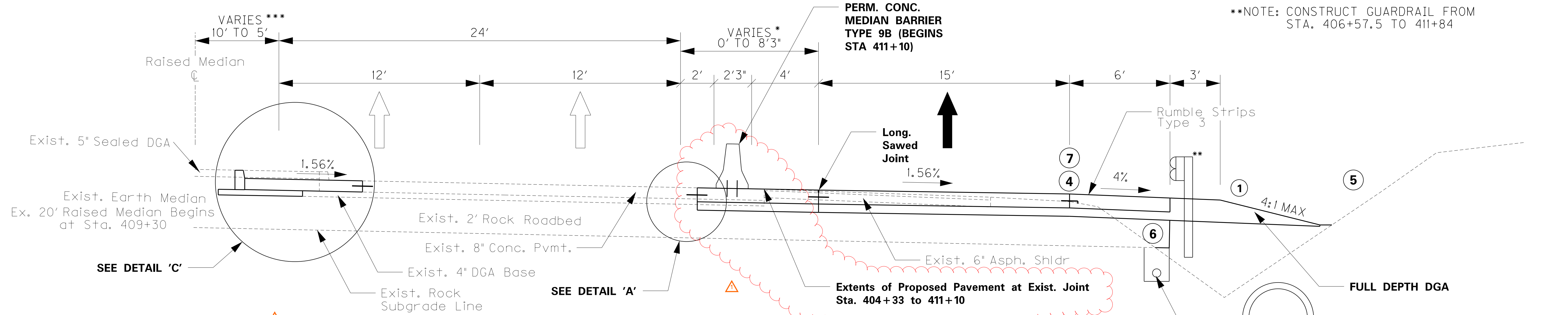
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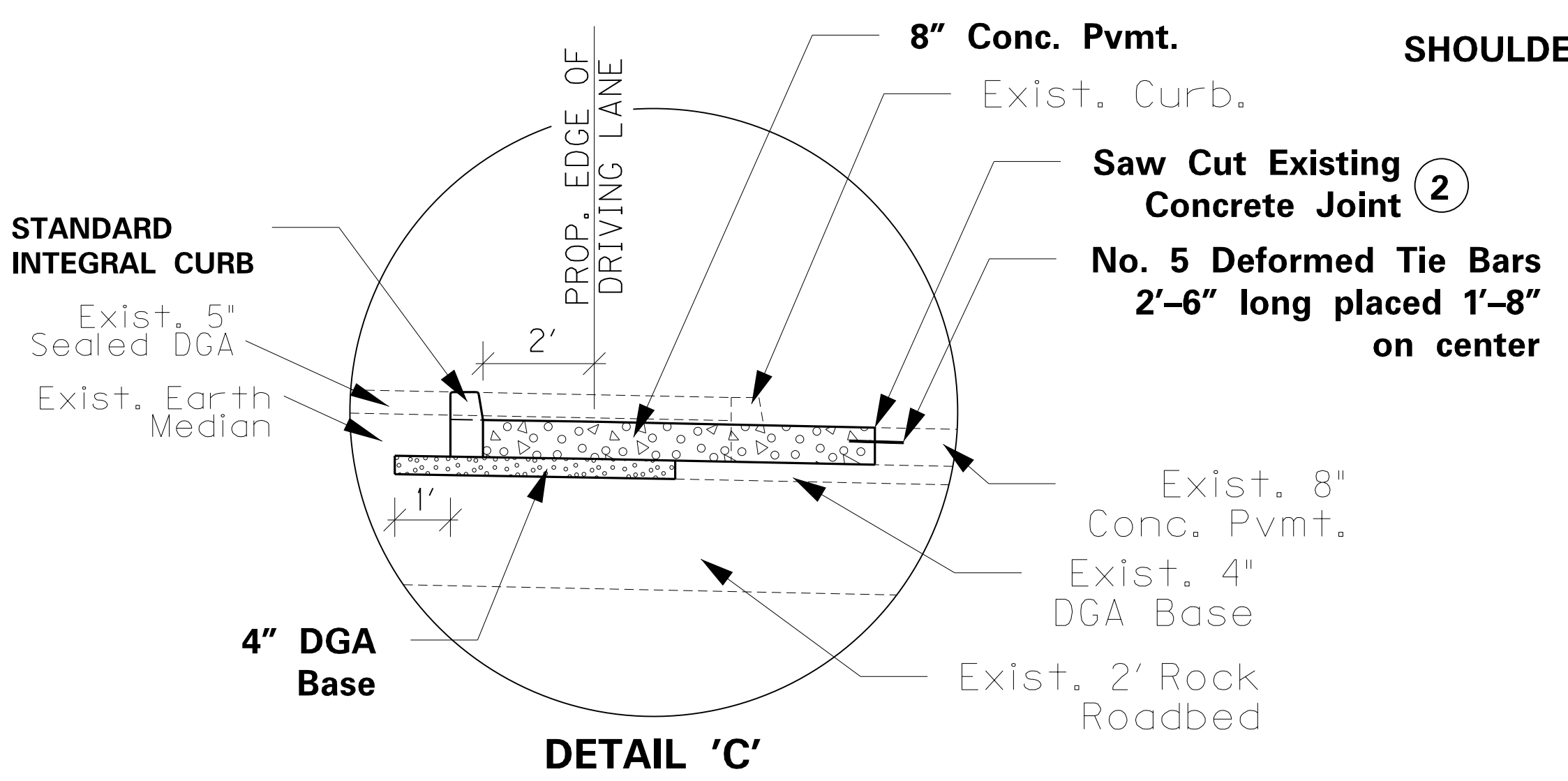
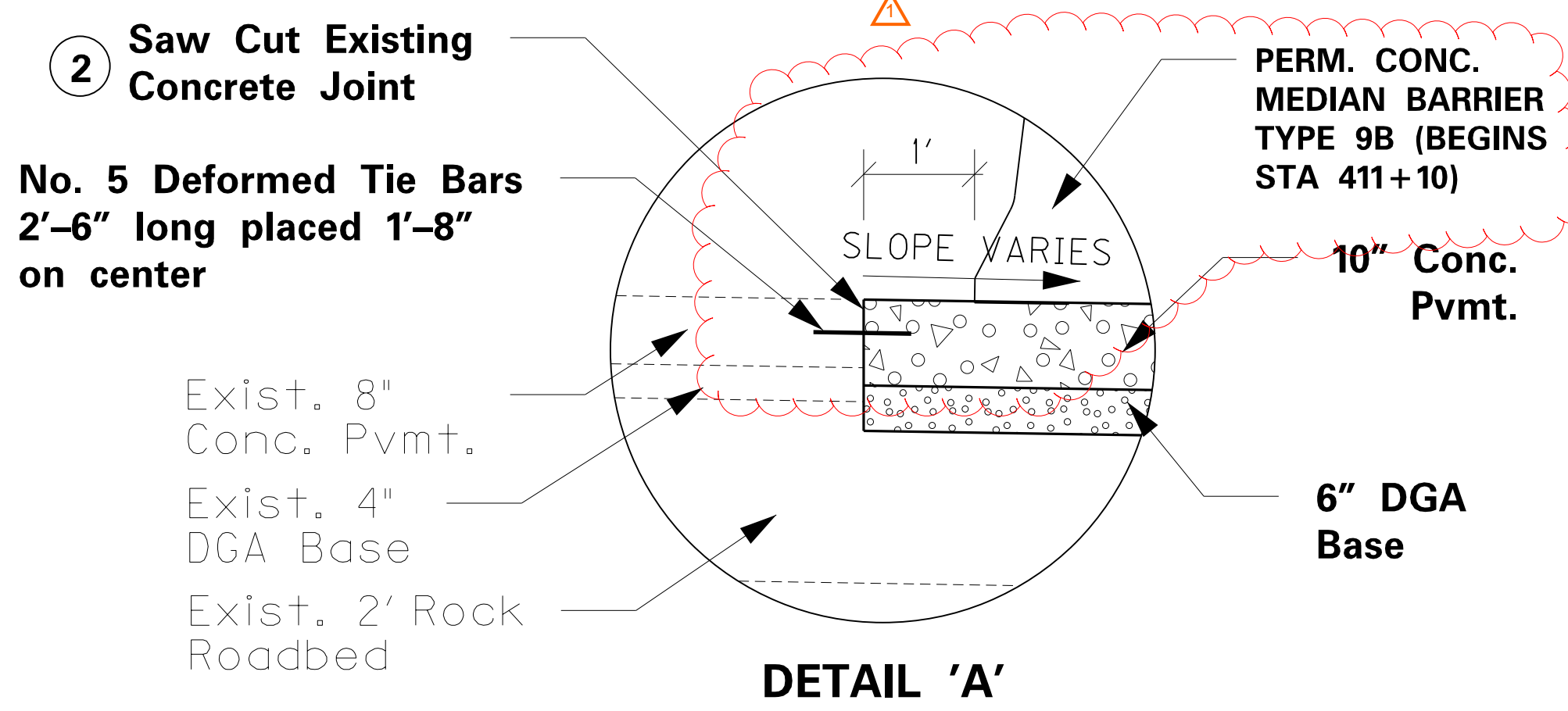
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△ PROPOSED PAVEMENT JOINT MOVED	5/11/11
REVISION	DATE

TYPICAL SECTION
US 31E - SOUTHBOUND
STA. 404+33 TO STA. 411+84

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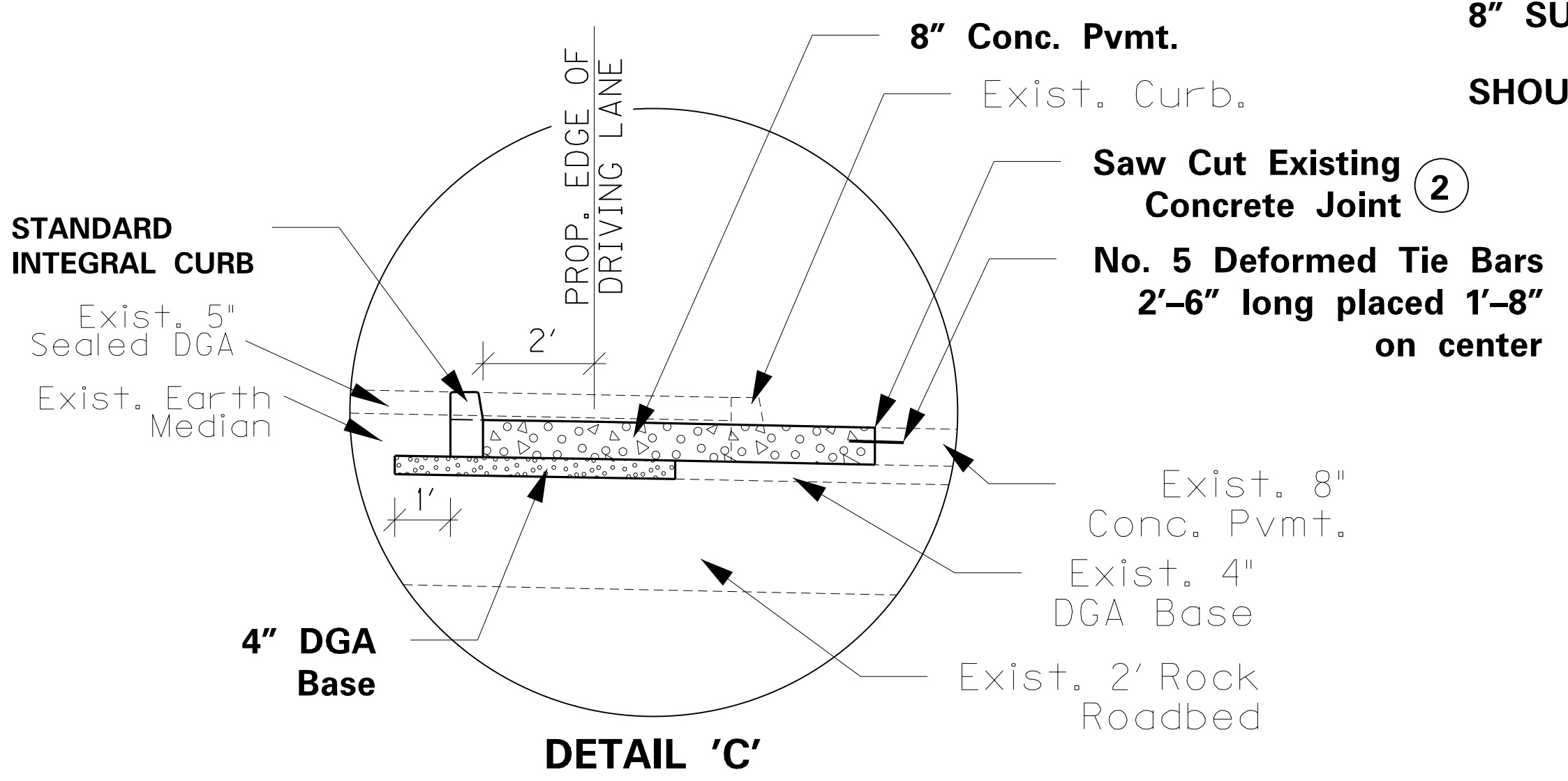
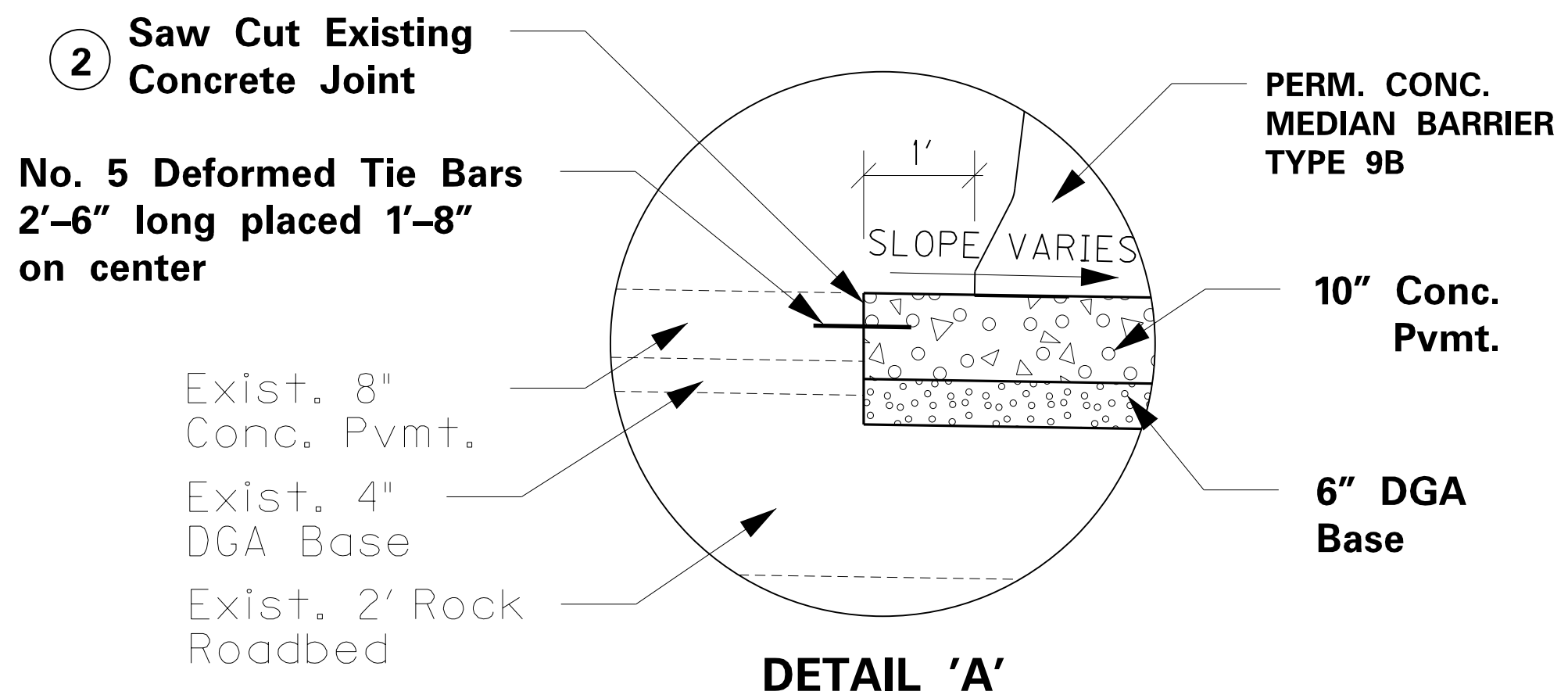
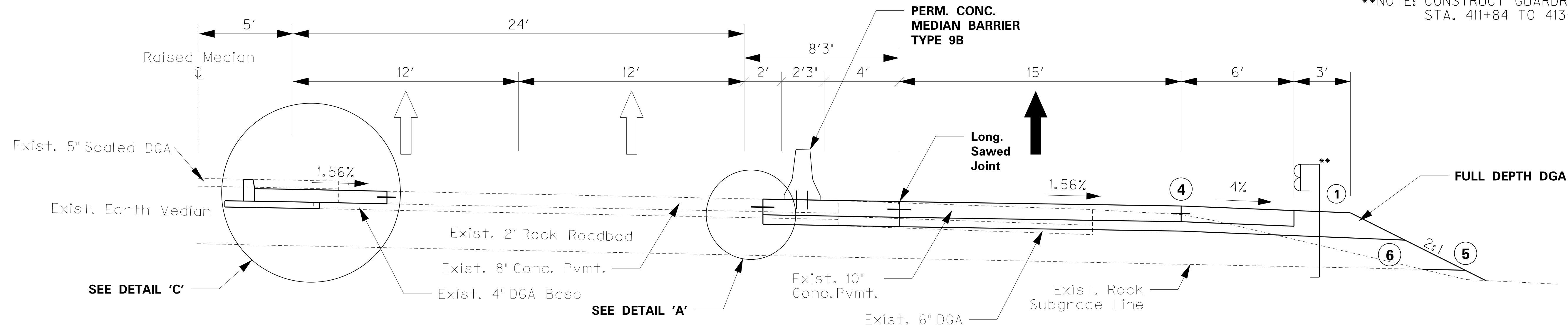
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TYPICAL SECTION

STA. 411+84 to STA. 414+95

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

**NOTE: CONSTRUCT GUARDRAIL FROM STA. 411+84 TO 413+33



NEW CONSTRUCTION GRADE, DRAIN, AND RIGID PAVEMENT USING

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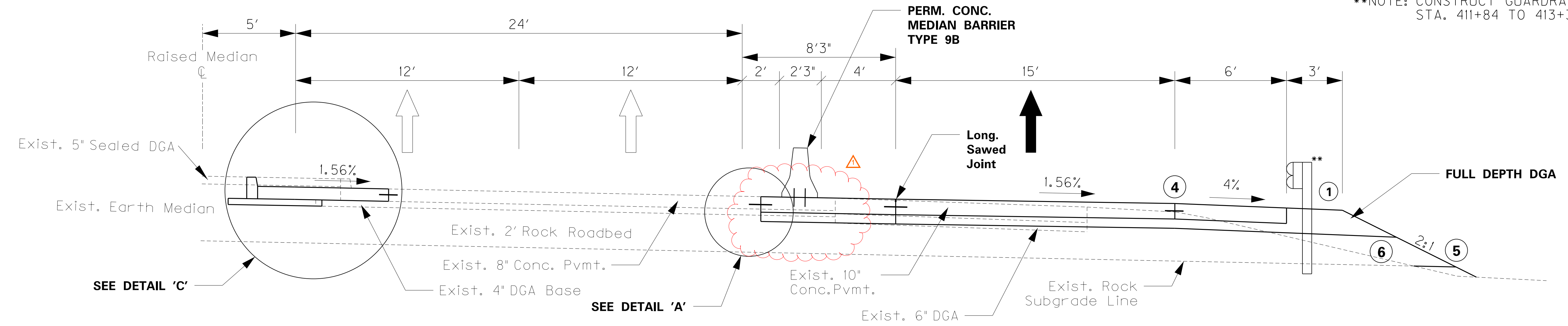
TYPICAL SECTION
 US 31E - SOUTHBOUND
 STA. 411+84 TO STA. 414+95

REVISD 5-12-11

TYPICAL SECTION

STA. 411+84 to STA. 414+95

**NOTE: CONSTRUCT GUARDRAIL FROM STA. 411+84 TO 413+33



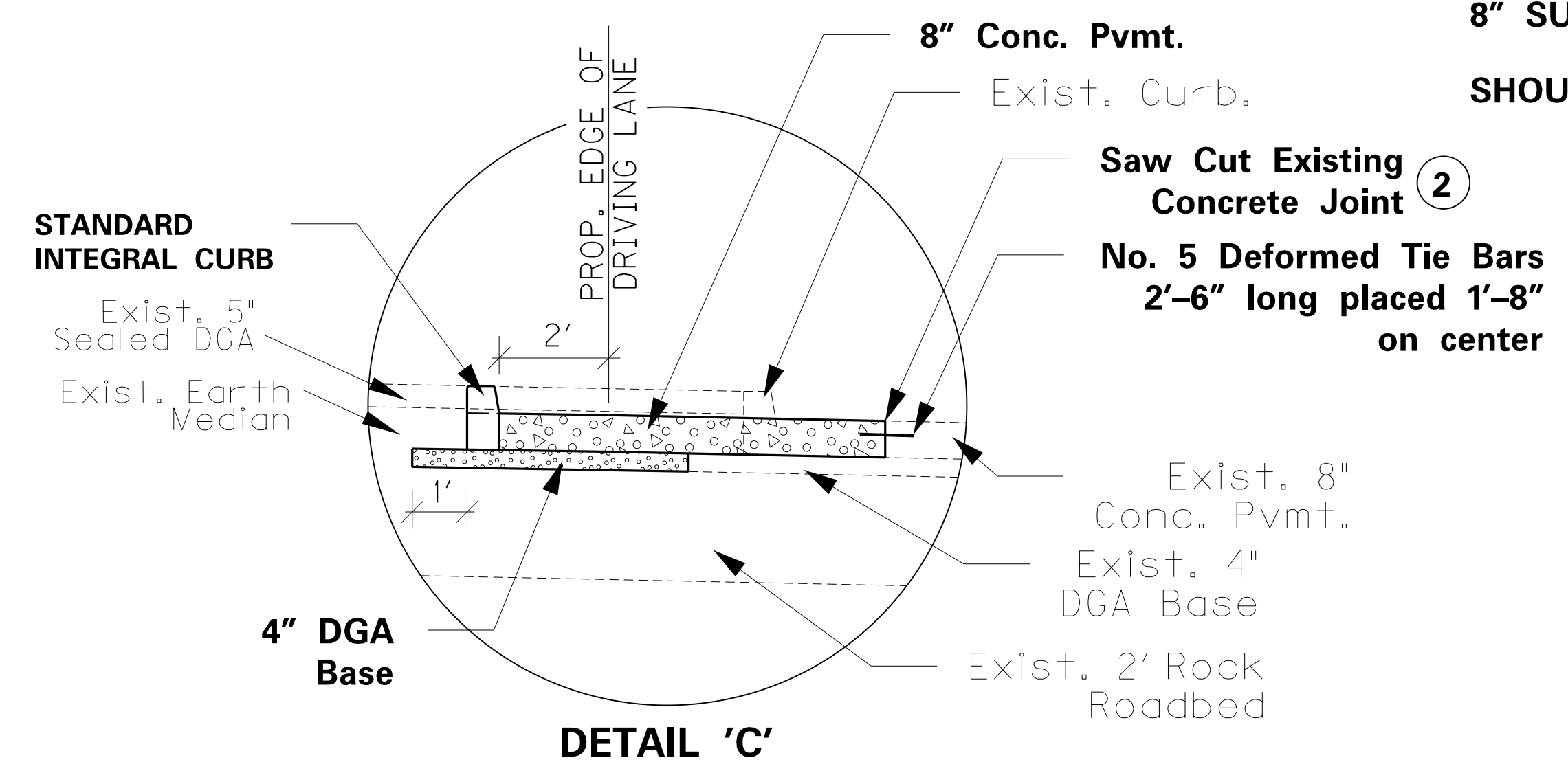
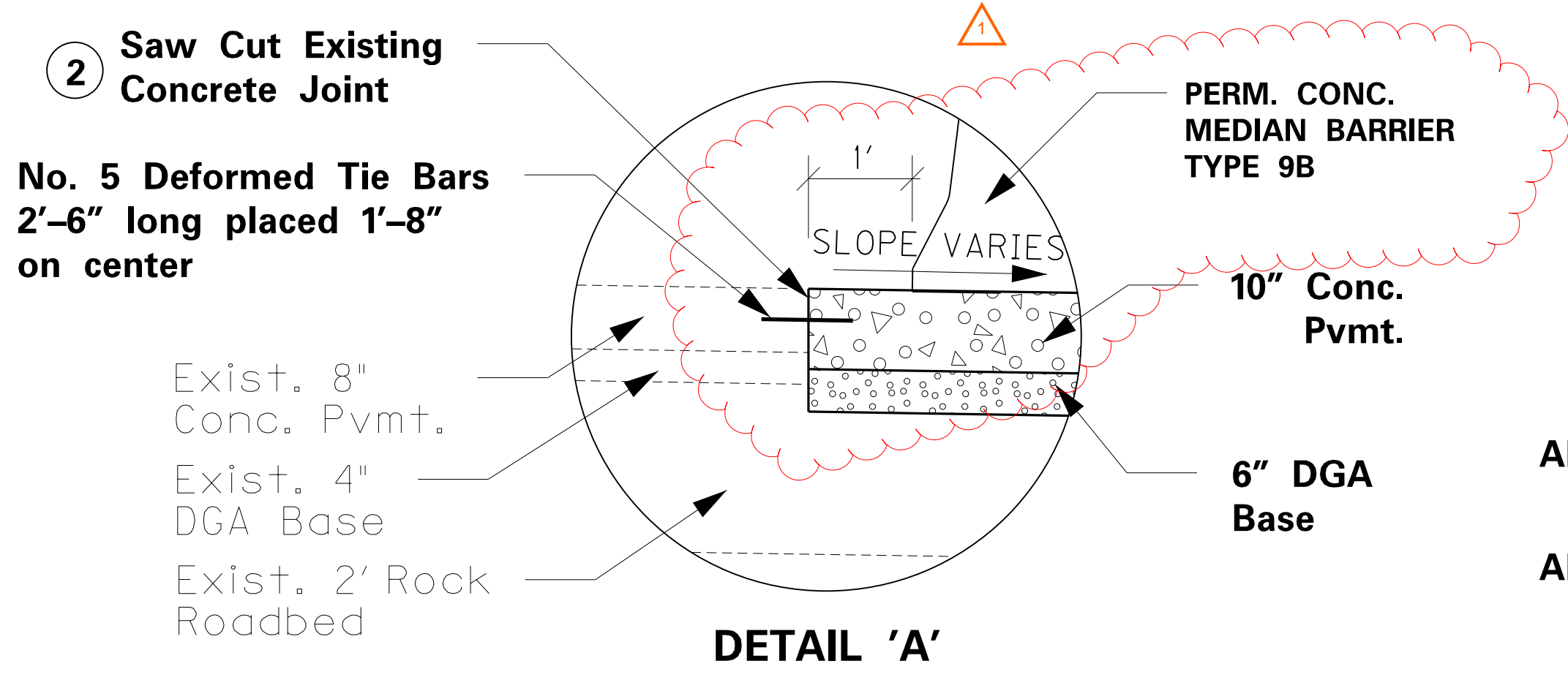
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US 31E - SOUTHBOUND
STA. 411+84 TO STA. 414+95

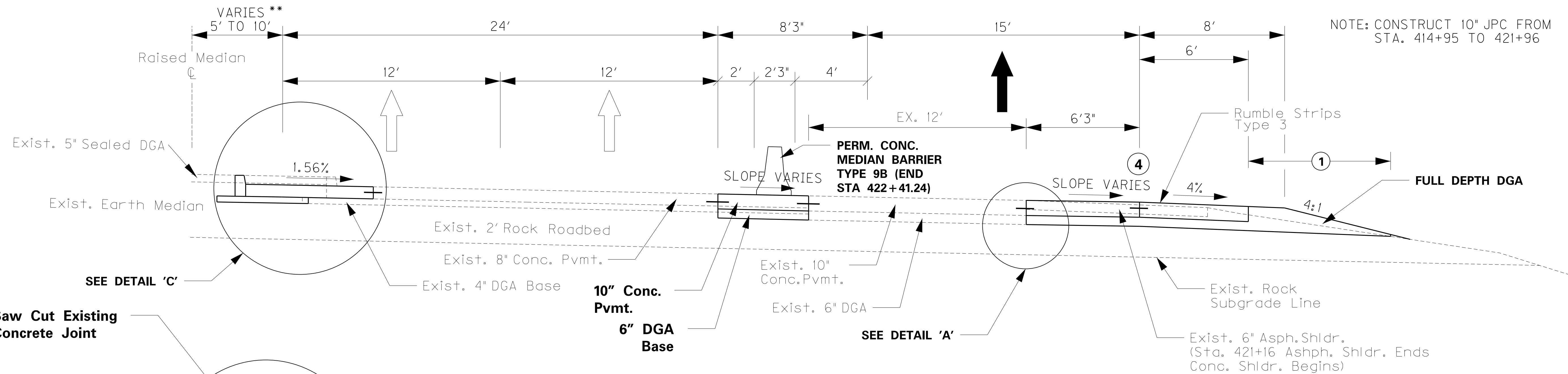
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TYPICAL SECTION

STA. 414+95 to STA. 424+00

**NOTE: BEGIN 50:1 TRANSITION OF THRU LANES AT STATION 421+50



NEW CONSTRUCTION GRADE, DRAIN, AND RIGID PAVEMENT USING

PAVEMENT DESIGN

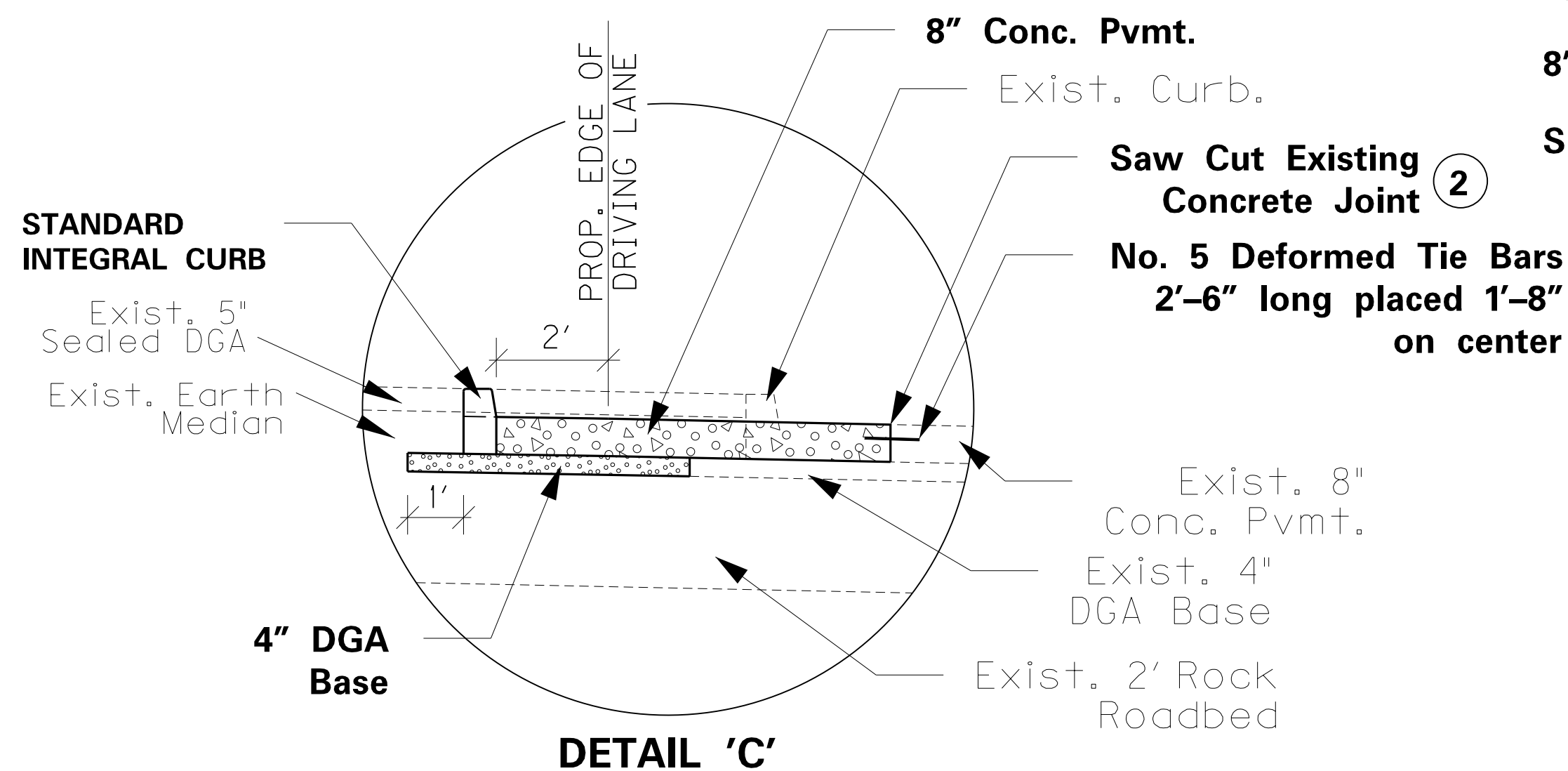
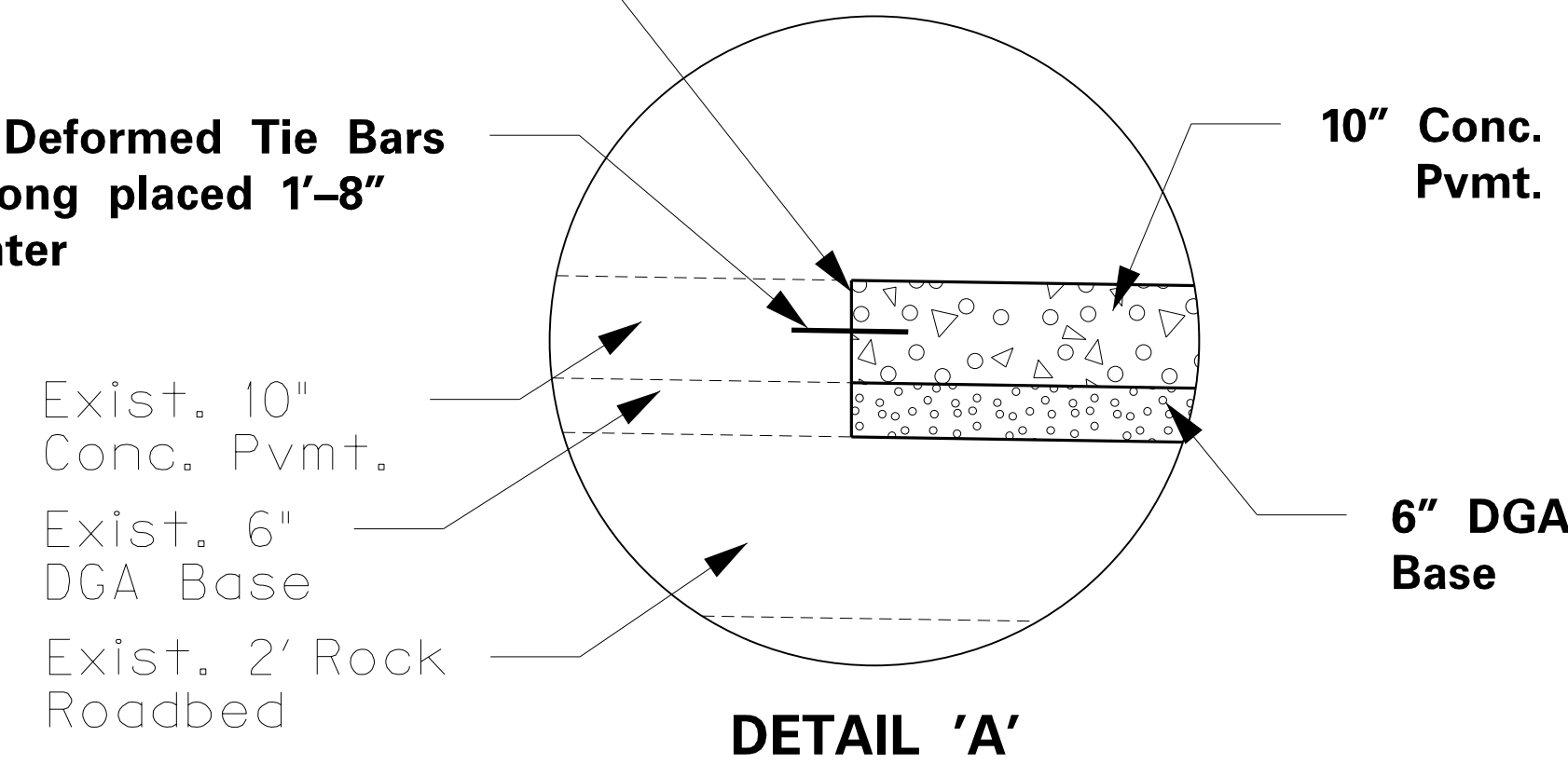
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2 Saw Cut Existing Concrete Joint

No. 5 Deformed Tie Bars 2'-6" long placed 1'-8" on center



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PROPOSED PAVEMENT ADDED UNDER BARRIER	5/11/11
REVISION	DATE

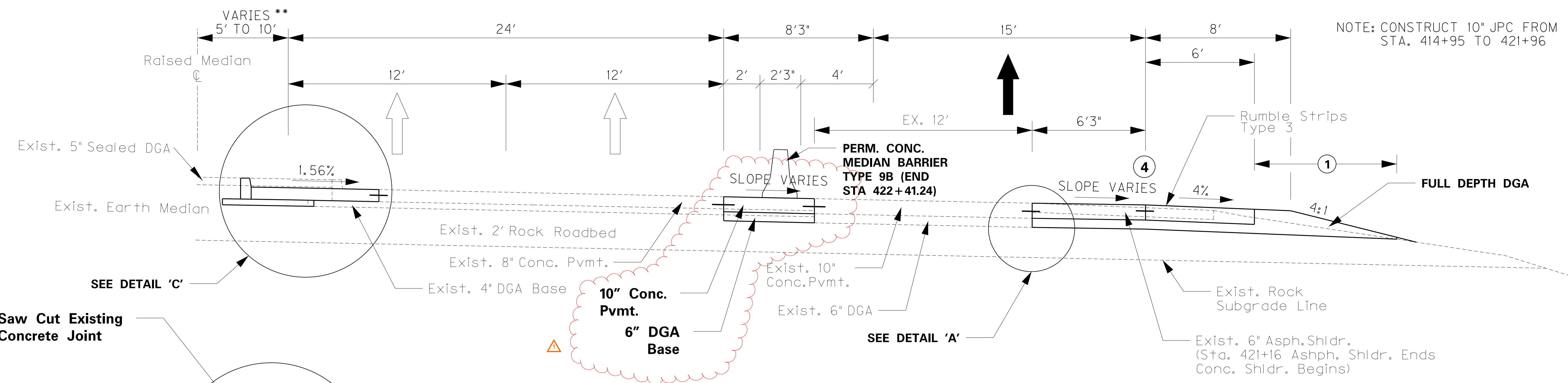
TYPICAL SECTION
 US 31E - SOUTHBOUND
 STA. 414+95 TO STA. 422+40

REVISD 5-12-11

TYPICAL SECTION

STA. 414+95 to STA. 424+00

**NOTE: BEGIN 50:1 TRANSITION OF THRU LANES AT STATION 421+50



NOTE: CONSTRUCT 10" JPC FROM STA. 414+95 TO 421+96

NEW CONSTRUCTION GRADE, DRAIN, AND RIGID PAVEMENT USING

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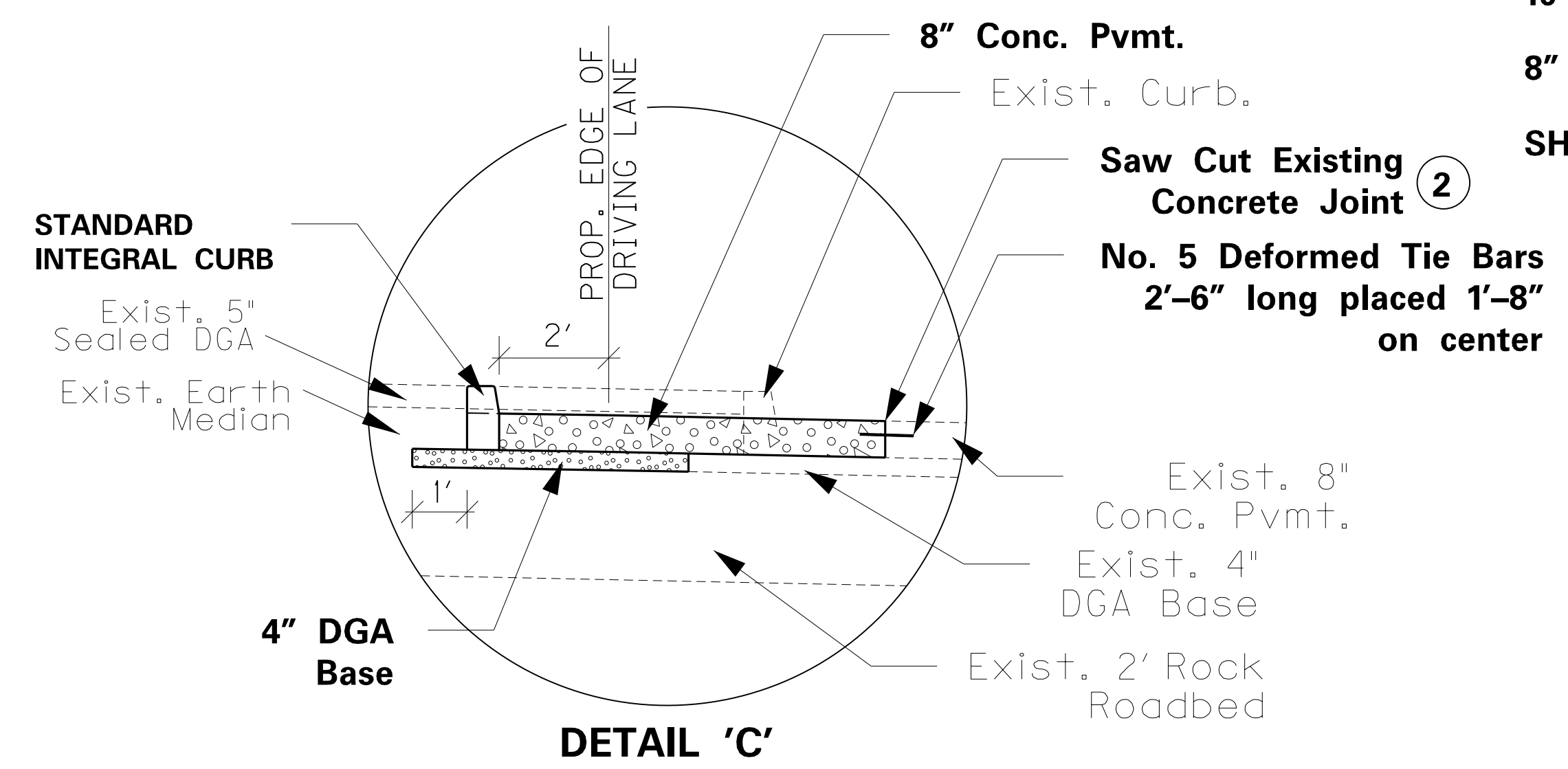
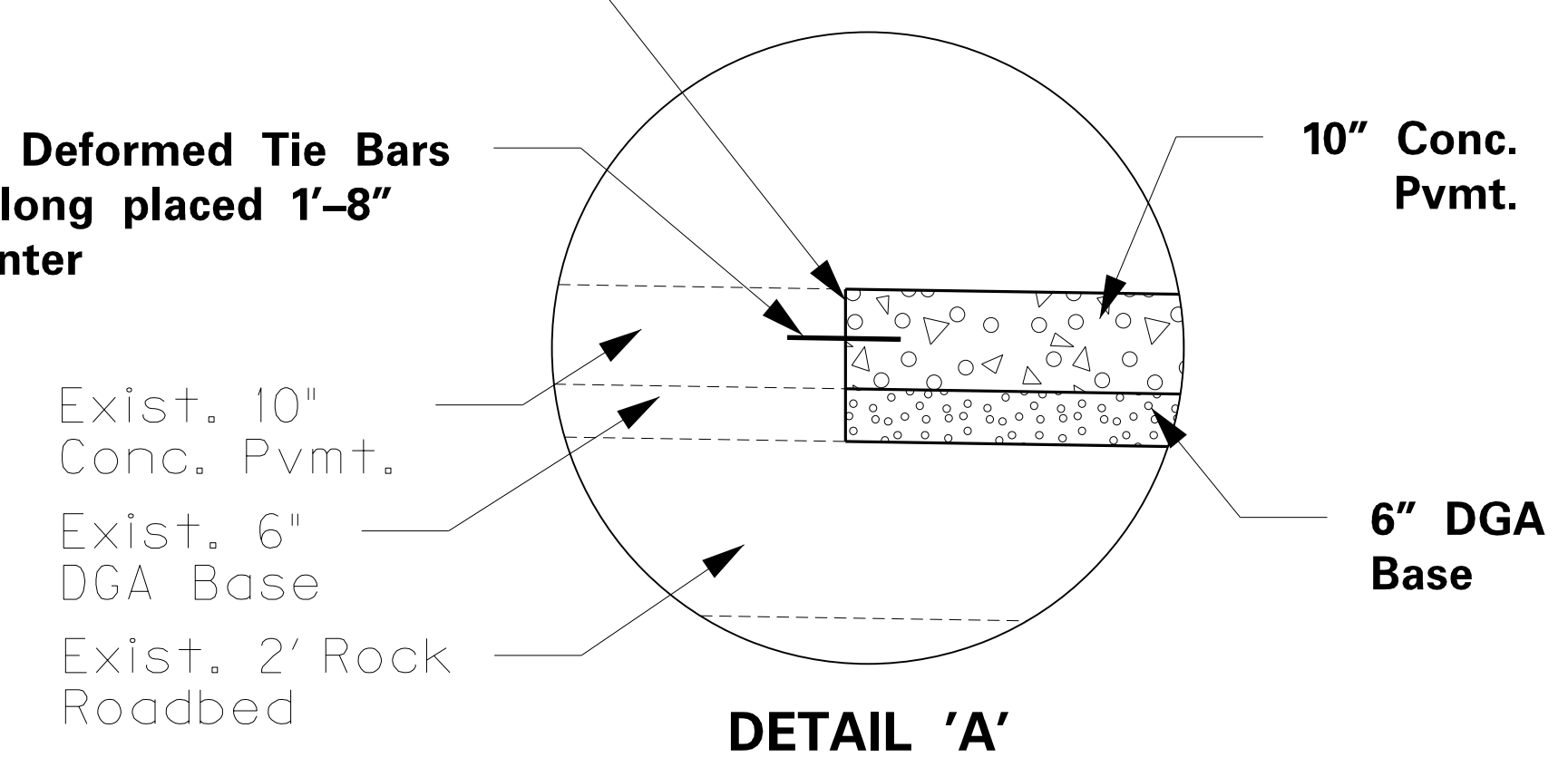
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PROPOSED PAVEMENT ADDED UNDER BARRIER	5/11/11
REVISION	DATE

TYPICAL SECTION
 US 31E - SOUTHBOUND
 STA. 414+95 TO STA. 422+40

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-264.00	R2e

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

ITEM	DESCRIPTION	UNIT	US 31E	CEDAR SPRINGS BLVD	RAMP 1	PROJECT TOTAL
0078	CRUSHED AGGREGATE NO. 2 ⑦	TON	2			2
1310	REMOVE PIPE	LIN FT	4			4
1314	PLUG PIPE	EACH	1			1
1583	DROP BOX INLET-TEMPORARY	EACH	1			1
1830	STANDARD INTEGRAL CURB	LIN FT	1299	144		1443
1982	DELINEATOR FOR GUARDRAIL - WHITE	EACH	11			11
1984	DELINEATOR FOR BARRIER - WHITE (TEMPORARY)	EACH	12			12
1985	DELINEATOR FOR BARRIER - YELLOW (TEMPORARY)	EACH	12			12
2003	RELOCATE TEMPORARY CONCRETE BARRIER	LIN FT	700			700
2014	BARRICADE-TYPE III	EACH	13			13
2091	REMOVE PAVEMENT	SO YD	1543			1543
2121	DEFORMED TIE BAR	EACH	3392		474	3866
2159	TEMPORARY DITCH	LIN FT	800			800
21554EN	ROADWAY EXCAVATION	CU YD	1516		1988	3504
2220	FLOWABLE FILL ⑪	CU YD	80			80
21553EN	EMBANKMENT IN PLACE	CU YD	798		80	878
2351	GUARDRAIL-STEEL W BEAM-S FACE	LIN FT	987.5			987.5
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	2			2
2381	REMOVE GUARDRAIL ⑥	LIN FT	470			470
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	3			3
2545	CLEARING AND GRUBBING ⑤	LP SUM	1			1
2562	SIGNS ④	SO FT	270			270
2569	DEMobilIZATION	LP SUM	1			1
2600	FABRIC - GEOTEXTILE TYPE IV FOR PIPE	SO YD	1031			1031
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	1			1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2			2
1984	DELINEATOR FOR BARRIER - WHITE	EACH	60			60
1985	DELINEATOR FOR BARRIER - YELLOW	EACH	60			60
2695	RUMBLE STRIPS TYPE 3	LIN FT	324		102	426
2701	TEMPORARY SILT FENCE	LIN FT	3130			3130
2704	SILT TRAP TYPE B	EACH	10			10
2705	SILT TRAP TYPE C	EACH	3			3
2707	CLEAN SILT TRAP TYPE B	EACH	30			30
2708	CLEAN SILT TRAP TYPE C	EACH	9			9
2709	CLEAN TEMPORARY SILT FENCE	LIN FT	9390			9390
2720	SIDEWALK - 4 IN CONCRETE	SO YD		8		8
2726	STAKING	LP SUM	1			1
2775	ARROW PANEL	EACH	2			2
2898	RELOCATE CRASH CUSHION	EACH	4		1	5
2900	INSTALL TEMP CRASH CUSHION	EACH	2			2
2998	MASONRY COATING	SO YD	685			685
3171	CONCRETE BARRIER WALL TYPE 9T	LIN FT	2690		860	3550
3289	SIDEWALK RAMP TYPE 3	EACH		4		4
5950	EROSION CONTROL BLANKET	SO YD	558			558
5952	TEMPORARY MULCH	SO YD	3889			3889
5953	TEMP SEEDING AND PROTECTION	SO YD	389			389
5966	TOPDRESSING FERTILIZER	TON	0.20			0.20
5985	SEEDING AND PROTECTION	SO YD	6160			6160
5990	SODDING	SO YD	100			100

Earthwork Quantities

Com = 3504 cy
 Emb = 878 cy
 Rock Cut = 1700 cy
 Rock Roadbed = 383 cy

Note: Common excavation includes approximately 1700 cy of rock cut.

ITEM	DESCRIPTION	UNIT	US 31E	CEDAR SPRINGS BLVD	RAMP 1	PROJECT TOTAL
6510	PAVE STRIPING-TEMP PAINT-4 IN	LIN FT	10263			10263
6511	PAVE STRIPING-TEMP PAINT-6 IN	LIN FT	4736			4736
6514	PAVE STRIPING-PERM PAINT-4 IN	LIN FT	7767			7767
6515	PAVE STRIPING-PERM PAINT-6 IN	LIN FT	2883		1258	4141
6517	PAVE STRIPING-PERM PAINT-12 IN	LIN FT	1058			1058
6567	PAVE MARKING-THERMO STOP BAR-12 IN	LIN FT	126		60	186
6569	PAVE MARKING-THERMO CROSS HATCH	SO FT	1772			1772
6572	PAVE MARKING-DOTTED LANE EXTENSION	LIN FT	177			177
6574	PAVE MARKING-PREF THERMO CURV ARROW	EACH			6	6
6589	PAVEMENT MARKER TYPE V-MW	EACH	77			77
6590	PAVEMENT MARKER TYPE V-MY	EACH	38			38
6592	PAVEMENT MARKER TYPE V-B W/R	EACH	7		29	36
6593	PAVEMENT MARKER TYPE V-B Y/R	EACH			31	31
6600	REMOVE PAVEMENT MARKER TYPE V	EACH	60			60
8904	CRASH CUSHION TYPE VI CLASS C	EACH	1			1
1002ONS	FUEL ADJUSTMENT	DOLLAR	4061			4061
22665EN	REMOVE NON-MOUNTABLE MEDIAN	SO YD	776			776
23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	LIN FT	40			40
23131ER701	PIPELINE VIDEO INSPECTION	LIN FT	73			73
23158ES505	DETECTABLE WARNINGS ⑩	SO FT		124		124
23237ENIOW	WATERBLAST STRIPE REMOVAL	LIN FT	5410			5410
23335EC	CONCRETE MEDIAN BARRIER TY 9B (PERMANENT)	LIN FT	969			969
20430ED	SAW CUT	LIN FT	1282			1282
8504	JOINT SEALING	LIN FT	1660			1660

NOTES

ALL ASHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 100 LBS. PRE SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH.

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- ⑤ APPROXIMATELY 3 ACRES.
- ⑥ DISMANTLE, SALVAGE, AND STOCKPILE AT THE HIGHWAY DEPT. MIDDLETOWN OFFICE AS DIRECTED BY THE ENGINEER. SALVAGED ITEMS SHALL BECOME THE PROPERTY OF THE DEPARTMENT OF HIGHWAYS.
- ⑦ USED FOR PERFORATED PIPE HEADWALL
- ⑧ *INCLUDES 10% ADDITIONAL MATERIAL IN THE BOTTOM 4" OF THE PAVEMENT DESIGN AS A CONSTRUCTION TOLERANCE ON ROCK SUBGRADE.
- ⑨ Considered incidental to placing 42" storm sewer pipe

⑩ Contrary to latest Standard Specifications, installation of Detectable Warnings will be measured by the Cabinet for payment

⑪ See Standard Drawing RDI-001-08, if cover height is less than 2' use a gage of pipe specified for 30' of fill. Use Class III concrete pipe, HDPE and PVC will not be allowed. In preparation for cantilever sign base, Flowable Fill is to be placed from the top of the pipe, up to the proposed grade line.

1	PROPOSED PAVEMENT ADDED	5/11/11
REVISION		DATE
GENERAL SUMMARY SHEET		

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$designsfiles\$specifications\$\$\$
 E-SHEET NAME:

GENERAL SUMMARY

△ REVISED 5-12-11

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

ITEM	DESCRIPTION	UNIT	US 31E	CEDAR SPRINGS BLVD	RAMP 1	PROJECT TOTAL
0078	CRUSHED AGGREGATE NO. 2 ⑦	TON	2			2
1310	REMOVE PIPE	LIN FT	4			4
1314	PLUG PIPE	EACH	1			1
1583	DROP BOX INLET-TEMPORARY	EACH	1			1
1830	STANDARD INTEGRAL CURB	LIN FT	1299	144		1443
1982	DELINEATOR FOR GUARDRAIL - WHITE	EACH	11			11
1984	DELINEATOR FOR BARRIER - WHITE (TEMPORARY)	EACH	12			12
1985	DELINEATOR FOR BARRIER - YELLOW (TEMPORARY)	EACH	12			12
2003	RELOCATE TEMPORARY CONCRETE BARRIER	LIN FT	700			700
2014	BARRICADE-TYPE III	EACH	13			13
2091	REMOVE PAVEMENT	SO YD	1543			1543
2121	DEFORMED TIE BAR	EACH	3392	△	474	3866
2159	TEMPORARY DITCH	LIN FT	800			800
21554EN	ROADWAY EXCAVATION	CU YD	1516		1988	3504
2220	FLOWABLE FILL ⑪	CU YD	80			80
21553EN	EMBANKMENT IN PLACE	CU YD	798		80	878
2351	GUARDRAIL-STEEL W BEAM-S FACE	LIN FT	987.5			987.5
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	2			2
2381	REMOVE GUARDRAIL ⑥	LIN FT	470			470
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	3			3
2545	CLEARING AND GRUBBING ⑤	LP SUM	1			1
2562	SIGNS ④	SO FT	270			270
2569	DEMOLITION	LP SUM	1			1
2600	FABRIC - GEOTEXTILE TYPE IV FOR PIPE	SO YD	1031			1031
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	1			1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2			2
1984	DELINEATOR FOR BARRIER - WHITE	EACH	60			60
1985	DELINEATOR FOR BARRIER - YELLOW	EACH	60			60
2695	RUMBLE STRIPS TYPE 3	LIN FT	324		102	426
2701	TEMPORARY SILT FENCE	LIN FT	3130			3130
2704	SILT TRAP TYPE B	EACH	10			10
2705	SILT TRAP TYPE C	EACH	3			3
2707	CLEAN SILT TRAP TYPE B	EACH	30			30
2708	CLEAN SILT TRAP TYPE C	EACH	9			9
2709	CLEAN TEMPORARY SILT FENCE	LIN FT	9390			9390
2720	SIDEWALK - 4 IN CONCRETE	SO YD		8		8
2726	STAKING	LP SUM	1			1
2775	ARROW PANEL	EACH	2			2
2898	RELOCATE CRASH CUSHION	EACH	4		1	5
2900	INSTALL TEMP CRASH CUSHION	EACH	2			2
2998	MASONRY COATING	SO YD	685			685
3171	CONCRETE BARRIER WALL TYPE 9T	LIN FT	2690		860	3550
3289	SIDEWALK RAMP TYPE 3	EACH		4		4
5950	EROSION CONTROL BLANKET	SO YD	558			558
5952	TEMPORARY MULCH	SO YD	3889			3889
5953	TEMP SEEDING AND PROTECTION	SO YD	389			389
5966	TOPDRESSING FERTILIZER	TON	0.20			0.20
5985	SEEDING AND PROTECTION	SO YD	6160			6160
5990	SODDING	SO YD	100			100

Earthwork Quantities

Com = 3504 cy
 Emb = 878 cy
 Rock Cut = 1700 cy
 Rock Roadbed = 383 cy

Note: Common excavation includes approximately 1700 cy of rock cut.

ITEM	DESCRIPTION	UNIT	US 31E	CEDAR SPRINGS BLVD	RAMP 1	PROJECT TOTAL
6510	PAVE STRIPING-TEMP PAINT-4 IN	LIN FT	10263			10263
6511	PAVE STRIPING-TEMP PAINT-6 IN	LIN FT	4736			4736
6514	PAVE STRIPING-PERM PAINT-4 IN	LIN FT	7767			7767
6515	PAVE STRIPING-PERM PAINT-6 IN	LIN FT	2883		1258	4141
6517	PAVE STRIPING-PERM PAINT-12 IN	LIN FT	1058			1058
6567	PAVE MARKING-THERMO STOP BAR-12 IN	LIN FT	126		60	186
6569	PAVE MARKING-THERMO CROSS HATCH	SO FT	1772			1772
6572	PAVE MARKING-DOTTED LANE EXTENSION	LIN FT	177			177
6574	PAVE MARKING-PREF THERMO CURV ARROW	EACH			6	6
6589	PAVEMENT MARKER TYPE V-MW	EACH	77			77
6590	PAVEMENT MARKER TYPE V-MY	EACH	38			38
6592	PAVEMENT MARKER TYPE V-B W/R	EACH	7		29	36
6593	PAVEMENT MARKER TYPE V-B Y/R	EACH			31	31
6600	REMOVE PAVEMENT MARKER TYPE V	EACH	60			60
8904	CRASH CUSHION TYPE VI CLASS C	EACH	1			1
1002ONS	FUEL ADJUSTMENT	DOLLAR	4061			4061
22665EN	REMOVE NON-MOUNTABLE MEDIAN	SO YD	776			776
23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	LIN FT	40			40
23131ER701	PIPELINE VIDEO INSPECTION	LIN FT	73			73
23158ES505	DETECTABLE WARNINGS ⑩	SO FT		124		124
23237ENIOW	WATERBLAST STRIPE REMOVAL	LIN FT	5410			5410
23335EC	CONCRETE MEDIAN BARRIER TY 9B (PERMANENT)	LIN FT	969			969
20430ED	SAW CUT	LIN FT	1282			1282
8504	JOINT SEALING	LIN FT	1660			1660

NOTES

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PROPOSED PAVEMENT ADDED	5/11/11
REVISION	DATE

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PAVING AREAS

ITEM	MAINLINE	RAMP 1	RAMP 6 & 7	TOTAL PROJECT
	S Q U A R E	Y A R D S	Y A R D S	
JPC PAVEMENT - 8 INCH	2307	—	—	2307
JPC PAVEMENT - 10 INCH	1000	1675	3455	6130
4' DENSE GRADED AGGREGATE BASE	2307	—	130	2437
6" DENSE GRADED AGGREGATE BASE	1000	1675	3455	6130
FULL DEPTH DGA BASE (ESTIMATED @ 12" DEPTH)	266	—	—	266
FULL DEPTH DGA BASE (ESTIMATED @ 16" DEPTH)	52	756	360	1168
ASPHALT SEAL COAT (2-APPLICATIONS @ 2.4 LB/SY)	420	360	950	1730
ASPHALT SEAL AGGREGATE (2-APPLICATIONS @ 20 LB/SY)	420	360	950	1730
CL3 ASPH BASE 1.00D PG64-22	—	—	130	130

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	RAMP 1	RAMP 6 & 7	TOTAL PROJECT
2084	JPC PAVEMENT - 8 INCH	SO YD	2307	—	—	2307
2069	JPC PAVEMENT - 10 INCH	SO YD	1000	1675	3455	6130
1	DENSE GRADED AGGREGATE BASE ① ⑧	TON	1218	1401	1708	4327
103	ASPHALT SEAL COAT	TON	1.01	0.86	2.28	4.15
100	ASPHALT SEAL AGGREGATE	TON	8.40	7.20	19.00	34.60
214	CL3 ASPH BASE 1.00D PG64-22	TON	—	—	28	28

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

PIPE DRAINAGE SUMMARY

SHEET NO.	ITEM CODE	SKEW	COVER HEIGHT	DESIGN PH LEVEL	CULVERT PIPE				CULVERT HDWL		DRAINAGE BOXES				PERF PIPE			CHANNEL LINING CLASS II	REMARKS		
					15" STORM SEWER PIPE	18" STORM SEWER PIPE	36" STORM SEWER PIPE	42" STORM SEWER PIPE	STORM SEWER PIPE - 30" IN EQUIV	CLASS "A" CONCRETE	STEEL REINFORCEMENT	DBI TYPE 2	DBI TYPE 7	CONC MED BARR BOX, INLET TY 9BI	JUNCTION BOX	PERFORATED PIPE - 4 IN	NON-PERFORATED PIPE - 4 IN			PERF PIPE HEADWALL TY 1-4 IN	
					521	522	528	529	556	8100	8150	1493	1538	1621	1650	1000	1010	1020	2483		
	UNIT TO BID				LIN FT				CU YD	LB	EACH				LF	LF	EACH	TONS			
	Sta. 404+05 to 405+70 Rt.		5.6'	M				164					1								Exit through exist. RCBC wingwall ⑨
	Sta. 405+70 to 407+30 Rt.		4.2'	M				155 ⑩					1								Conc. Class III only ⑩
	Sta. 407+30 to 409+57 Rt.		3.3'	M				223						1							Junc. Box No. 36, 5'x5', h = 5'5"
	Sta. 409+57 to 410+00 Rt.		1.8'	M		4		42			1										
	Sta. 411+17 to 413+00 Rt.	0°	2.7'	M		33			0.93	8			1								One 18" Sloped & Flared Hdw
	Sta. 413+00 to 415+25 Rt.		3.4'	M		180							1								
	Sta. 415+25 to 416+75 Rt.		3.3'	M		223							1								
	Sta. 416+75 to 418+25 Rt.		3.4'	M		148							1								
	Sta. 418+25 to 419+75 Rt.		3.5'	M		148							1								
	Sta. 419+75 to 421+25 Rt.		3.7'	M	148								1								
	Sta. 419+75 to 421+25 Rt.		3.9'	M	148								1								
	Sta. 405+70 to 410+00 Rt.															430					
	Sta. 405+70 Rt.	0°														6	10				Drain into Proposed Drop Box Rt.
	Sta. 407+30 Rt.	0°														6	9				Drain into Proposed Drop Box Rt.
	Sta. 410+98 Rt.	0°														15	10	1			Extend Existing Underdrain
	Sta. 410+11 to 410+98 Lt.																89	1			Outlet for Ramp 1 Underdrain
	Sta. 131+00 to 132+10 Rt.															110					Underdrain along Ramp 1
	Sta. 410+06 to 410+93 Rt.																		25		1 ft Depth to Protect
	TOTAL PROJECT				296	732	4	542	42	0.93	8	1	2	7	1	567	118	2	25		

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REVISION		DATE
PIPE & PAVING SUMMARY SHEET		

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ITEM	MAINLINE	RAMP 1	RAMP 6 & 7	TOTAL PROJECT
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CL3 ASPH BASE 1.00D PG64-22	—	—	130	130

PAVING SUMMARY

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100	ASPHALT SEAL AGGREGATE	TON	8.40	7.20	19.00	34.60
214	CL3 ASPH BASE 1.00D PG64-22	TON	—	—	28	28

△ REVISED 5-12-11

PIPE DRAINAGE SUMMARY

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					521	522	528	529	556	8100	8150	1493	1538	1621	1650	1000	1010	1020	2483		
	UNIT TO BID				LIN FT				CU YD	LB	EACH				LF	LF	EACH	TONS			
	Sta. 404+05 to 405+70 Rt.		5.6'	M				164					1								Exit through exist. RCBC wingwall ⑨
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	Sta. 411+17 to 413+00 Rt.	0°	2.7'	M		33			0.93	8				1							One 18" Sloped & Flared Hdwl
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	Sta. 418+25 to 419+75 Rt.		3.5'	M		148								1							
	Sta. 419+75 to 421+25 Rt.		3.7'	M	148									1							
	Sta. 419+75 to 421+25 Rt.		3.9'	M	148									1							
	Sta. 405+70 to 410+00 Rt.															430					
	Sta. 405+70 Rt.	0°														6	10				Drain into Proposed Drop Box Rt.
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	TOTAL PROJECT				296	732	4	542	42	0.93	8	1	2	7	1	567	118	2	25		

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PIPE & PAVING SUMMARY SHEET		

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CONTRACT ID: 111305
COUNTY: JEFFERSON
PROPOSAL: IM 2652 (024)

PAGE: 1
LETTING: 05/20/11
CALL NO: 100

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
SECTION 0001 PAVING						
0010	00001	DGA BASE (REVISED: 5-16-11)	4,327.000	TON		
0020	00100	ASPHALT SEAL AGGREGATE	34.600	TON		
0030	00103	ASPHALT SEAL COAT	4.150	TON		
0040	00214	CL3 ASPH BASE 1.00D PG64-22	28.000	TON		
0050	02069	JPC PAVEMENT-10 IN (REVISED: 5-16-11)	6,130.000	SQYD		
0060	02084	JPC PAVEMENT-8 IN	2,307.000	SQYD		
SECTION 0002 ROADWAY						
0070	00078	CRUSHED AGGREGATE SIZE NO 2	2.000	TON		
0080	01310	REMOVE PIPE	4.000	LF		
0090	01314	PLUG PIPE	1.000	EACH		
0100	01583	DROP BOX INLET-SPECIAL	1.000	EACH		
0110	01830	STANDARD INTEGRAL CURB	1,443.000	LF		
0120	01982	DELINEATOR FOR GUARDRAIL-WHITE	11.000	EACH		
0130	01984	DELINEATOR FOR BARRIER-WHITE	12.000	EACH		
0140	01984	DELINEATOR FOR BARRIER-WHITE (TEMPORARY)	60.000	EACH		
0150	01985	DELINEATOR FOR BARRIER-YELLOW	12.000	EACH		
0160	01985	DELINEATOR FOR BARRIER-YELLOW (TEMPORARY)	60.000	EACH		
0170	02003	RELOCATE TEMP CONC BARRIER	700.000	LF		
0180	02014	BARRICADE-TYPE III	13.000	EACH		
0190	02091	REMOVE PAVEMENT	1,543.000	SQYD		

CONTRACT ID: 111305
COUNTY: JEFFERSON
PROPOSAL: IM 2652 (024)

PAGE: 2
LETTING: 05/20/11
CALL NO: 100

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0200	02121	DEFORMED TIE BAR (REVISED: 5-16-11)	3,866.000	EACH		
0210	02159	TEMP DITCH	800.000	LF		
0220	02220	FLOWABLE FILL	80.000	CUYD		
0230	02351	GUARDRAIL-STEEL W BEAM-S FACE	987.500	LF		
0240	02360	GUARDRAIL TERMINAL SECTION NO 1	2.000	EACH		
0250	02381	REMOVE GUARDRAIL	470.000	LF		
0260	02391	GUARDRAIL END TREATMENT TYPE 4A	3.000	EACH		
0270	02545	CLEARING AND GRUBBING (3 ACRES)	(1.00)	LS		
0280	02562	SIGNS	270.000	SQFT		
0290	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	1,031.000	SQYD	2.00	2,069.64
0300	02650	MAINTAIN & CONTROL TRAFFIC	(1.00)	LS		
0310	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.000	EACH		
0320	02695	RUMBLE STRIPS TYPE 3	426.000	LF		
0330	02701	TEMP SILT FENCE	3,130.000	LF		
0340	02704	SILT TRAP TYPE B	10.000	EACH		
0350	02705	SILT TRAP TYPE C	3.000	EACH		
0360	02707	CLEAN SILT TRAP TYPE B	30.000	EACH		
0370	02708	CLEAN SILT TRAP TYPE C	9.000	EACH		
0380	02709	CLEAN TEMP SILT FENCE	9,390.000	LF		
0390	02720	SIDEWALK-4 IN CONCRETE	8.000	SQYD		
0400	02726	STAKING	(1.00)	LS		

CONTRACT ID: 111305
COUNTY: JEFFERSON
PROPOSAL: IM 2652 (024)

PAGE: 3
LETTING: 05/20/11
CALL NO: 100

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0410	02775	ARROW PANEL	2.000	EACH		
0420	02898	RELOCATE CRASH CUSHION	5.000	EACH		
0430	02900	INSTALL TEMP CRASH CUSHION	2.000	EACH		
0440	02998	MASONRY COATING	685.000	SQYD		
0450	03171	CONCRETE BARRIER WALL TYPE 9T	3,550.000	LF		
0460	03289	SIDEWALK RAMP TYPE 3	4.000	EACH		
0470	05950	EROSION CONTROL BLANKET	558.000	SQYD		
0480	05952	TEMP MULCH	3,889.000	SQYD		
0490	05953	TEMP SEEDING AND PROTECTION	389.000	SQYD		
0500	05966	TOPDRESSING FERTILIZER	0.200	TON		
0510	05985	SEEDING AND PROTECTION	6,160.000	SQYD		
0520	05990	SODDING	100.000	SQYD		
0530	06510	PAVE STRIPING-TEMP PAINT-4 IN	10,263.000	LF		
0540	06511	PAVE STRIPING-TEMP PAINT-6 IN	4,736.000	LF		
0550	06514	PAVE STRIPING-PERM PAINT-4 IN	7,767.000	LF		
0560	06515	PAVE STRIPING-PERM PAINT-6 IN	4,141.000	LF		
0570	06517	PAVE STRIPING-PERM PAINT-12 IN	1,058.000	LF		
0580	06567	PAVE MARKING-THERMO STOP BAR-12IN	186.000	LF		
0590	06569	PAVE MARKING-THERMO CROSS-HATCH	1,772.000	SQFT		
0600	06572	PAVE MARKING-DOTTED LANE EXTEN	177.000	LF		
0610	06574	PAVE MARKING-THERMO CURV ARROW	6.000	EACH		

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0620	06589	PAVEMENT MARKER TYPE V-MW	77.000	EACH		
0630	06590	PAVEMENT MARKER TYPE V-MY	38.000	EACH		
0640	06592	PAVEMENT MARKER TYPE V-B W/R	36.000	EACH		
0650	06593	PAVEMENT MARKER TYPE V-B Y/R	31.000	EACH		
0660	06600	REMOVE PAVEMENT MARKER TYPE V	60.000	EACH		
0661	08540	JOINT SEALING (ADDED: 5-16-11)	1,660.000	LF		
0670	08904	CRASH CUSHION TY VI CLASS C	1.000	EACH		
0680	10020NS	FUEL ADJUSTMENT	4,061.000	DOLL	1.00	4,061.00
0681	20430ED	SAW CUT (ADDED: 5-16-11)	1,282.000	LF		
0690	21553EN	EMBANKMENT	878.000	CUYD		
0700	21554EN	EXCAVATION	3,504.000	CUYD		
0710	22665EN	REMOVE NON-MOUNTABLE MEDIAN	776.000	SQYD		
0720	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	40.000	LF		
0730	23131ER701	PIPELINE VIDEO INSPECTION	73.000	LF		
0740	23158ES505	DETECTABLE WARNINGS	124.000	SQFT		
0750	23237EN10W	WATERBLAST STRIPE REMOVAL	5,410.000	LF		
0760	23335EC	CONCRETE MEDIAN BARRIER TY 9B2	969.000	LF		
SECTION 0003		DRAINAGE				
0770	00521	STORM SEWER PIPE-15 IN	296.000	LF		
0780	00522	STORM SEWER PIPE-18 IN	732.000	LF		
0790	00528	STORM SEWER PIPE-36 IN	4.000	LF		

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0800	00529	STORM SEWER PIPE-42 IN	542.000	LF		
0810	00556	STORM SEWER PIPE-30 IN EQUIV	42.000	LF		
0820	01000	PERFORATED PIPE-4 IN	567.000	LF		
0830	01010	NON-PERFORATED PIPE-4 IN	118.000	LF		
0840	01020	PERF PIPE HEADWALL TY 1-4 IN	2.000	EACH		
0850	01493	DROP BOX INLET TYPE 2	1.000	EACH		
0860	01538	DROP BOX INLET TYPE 7	2.000	EACH		
0870	01621	CONC MED BARR BOX INLET TY 9B1	7.000	EACH		
0880	01650	JUNCTION BOX	1.000	EACH		
0890	02483	CHANNEL LINING CLASS II	25.000	TON		
0900	08100	CONCRETE-CLASS A	0.930	CUYD		
0910	08150	STEEL REINFORCEMENT	8.000	LB		
SECTION 0004 SIGNING						
0920	06201	OSS GALV STEEL CANTILEVER MOD	2.000	EACH		
0930	06405	SBM ALUMINUM PANEL SIGNS	684.000	SQFT		
0940	06406	SBM ALUM SHEET SIGNS .080 IN	80.000	SQFT		
0950	06407	SBM ALUM SHEET SIGNS .125 IN	150.500	SQFT		
0960	06410	STEEL POST TYPE 1	60.000	LF		
0970	06411	STEEL POST TYPE 2	222.000	LF		
0980	06417	FLEXIBLE DELINEATOR POST-W	40.000	EACH		
0990	06418	FLEXIBLE DELINEATOR POST-Y	20.000	EACH		

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1000	06441	GMSS GALV STEEL TYPE C	1,171.800	LB		
1010	06449	REM OVERHEAD SIGN SUPPORT STR	1.000	EACH		
1020	06450	REM OVERHEAD STRUC CONC BASE	2.000	EACH		
1030	06490	CLASS A CONCRETE FOR SIGNS	42.410	CUYD		
1040	06491	STEEL REINFORCEMENT FOR SIGNS	3,437.000	LB		
1050	20419ND	ROADWAY CROSS SECTION	3.000	EACH		
1060	21373ND	REMOVE SIGN	4.000	EACH		
1070	23639ED	REM SIGN BRIDGE MOUNT ATTACHMENT	1.000	EACH		
SECTION 0005 SIGNALIZATION						
1080	04793	CONDUIT-1 1/4 IN	60.000	LF		
1090	04795	CONDUIT-2 IN	40.000	LF		
1100	04811	JUNCTION BOX TYPE B	2.000	EACH		
1110	04820	TRENCHING AND BACKFILLING	65.000	LF		
1120	04830	LOOP WIRE	2,050.000	LF		
1130	04844	CABLE-NO. 14/5C	1,000.000	LF		
1140	04850	CABLE-NO. 14/1 PAIR	1,110.000	LF		
1150	04886	MESSENGER-15400 LB	200.000	LF		
1160	04895	LOOP SAW SLOT AND FILL	740.000	LF		
1170	04931	INSTALL CONTROLLER TYPE 170	1.000	EACH		
1180	04932	INSTALL STEEL STRAIN POLE	2.000	EACH		
1190	04950	REMOVE SIGNAL EQUIPMENT	2.000	EACH		

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1200	20188NS835	INSTALL LED SIGNAL-3 SECTION	10.000	EACH		
1210	21659NN	RELOCATE SIGNAL HEAD	1.000	EACH		
1220	21743NN	INSTALL PEDESTRIAN DETECTOR	2.000	EACH		
1230	23157EN	TRAFFIC SIGNAL POLE BASE	11.250	CUYD		
SECTION 0006 LIGHTING						
1240	04740	POLE BASE	7.000	EACH		
1250	04780	FUSED CONNECTOR KIT	14.000	EACH		
1260	04793	CONDUIT-1 1/4 IN	1,450.000	LF		
1270	04795	CONDUIT-2 IN	120.000	LF		
1280	04811	JUNCTION BOX TYPE B	7.000	EACH		
1290	04820	TRENCHING AND BACKFILLING	1,500.000	LF		
1300	04832	WIRE-NO. 12	700.000	LF		
1310	04834	WIRE-NO. 6	3,300.000	LF		
1320	04940	REMOVE LIGHTING	(1.00)	LS		
1330	04942	REMOVE STORE & REINSTALL POLE	7.000	EACH		
1340	21543EN	BORE AND JACK CONDUIT	50.000	LF		
SECTION 0007 DEMOBILIZATION						
1350	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				