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VAOT STANDARDS

D-3	6/1/1994	E-142	9/20/1995
D-6	6/1/1994	E-143	6/15/2004
D-10	6/1/1994	E-150	5/1/2004
D-15	6/1/1994	E-151	5/1/2004
E-100	1/2/2004	E-152	5/1/2004
E-100A	1/2/2004	E-153	5/1/2004
E-101	5/30/2003	E-155	5/1/2004
E-102	6/30/2003	E-160	5/20/1999
E-102A	5/1/2004	E-161	8/18/1995
E-103	3/1/2004	E-164	6/8/2009
E-105	5/1/2004	E-191	2/1/1999
E-106	3/1/2004	E-192	10/12/2000
E-107	6/30/2003	E-193	8/18/1995
E-107A	6/8/2009	E-197	4/1/2005
E-108A	6/8/2009	E-198	4/1/2005
E-110	8/8/1995	E-199	4/1/2005
E-111	3/1/1997	F-2	6/1/1994
E-120	8/8/1995	C-1	1/3/2000
E-123	3/16/2004	C-1D	1/3/2000
E-132	8/18/1995	C-6	2/11/2008
E-133	8/8/1995	C-19	11/15/2002
E-136B	8/8/1995	ESFM	7/10/1997
E-139	5/1/2004	PSF-3M	7/10/1997

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**



**PROPOSED IMPROVEMENT
TOWN OF DERBY
COUNTY OF ORLEANS
INTERSTATE ROUTE 91 NB & SB**

BEGINNING ON INTERSTATE ROUTE 91 IN THE TOWN OF DERBY AT NORTHBOUND MILE MARKER 169.800 AND EXTENDING NORTHERLY FOR A DISTANCE OF 39,489.12 FT (7.479 MILES) TO MILE MARKER 177.279. ALSO BEGINNING ON INTERSTATE 91 IN THE TOWN OF DERBY AT SOUTHBOUND MILE MARKER 169.800 AND EXTENDING NORTHERLY FOR A DISTANCE OF 39,394.08 FT (7.461 MILES) TO MILE MARKER 177.261. PROJECT ALSO INCLUDES ALL ASSOCIATED RAMPS AND THE WELCOME CENTER WORK DESCRIBED IN THE PROJECT DATA ON SHEET 2.

LENGTH OF ROADWAY = 14.940 MILES (78,883.20 FT)
LENGTH OF PROJECT = 14.940 MILES (78,883.20 FT)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE NORTHBOUND AND SOUTHBOUND LANES, INTERCHANGE RAMPS, MAINTENANCE U-TURNS AND THE WELCOME CENTER WITH A LEVELING COURSE, WEARING COURSE, MILLED RUMBLE STRIPS, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND OTHER RELATED ITEMS.

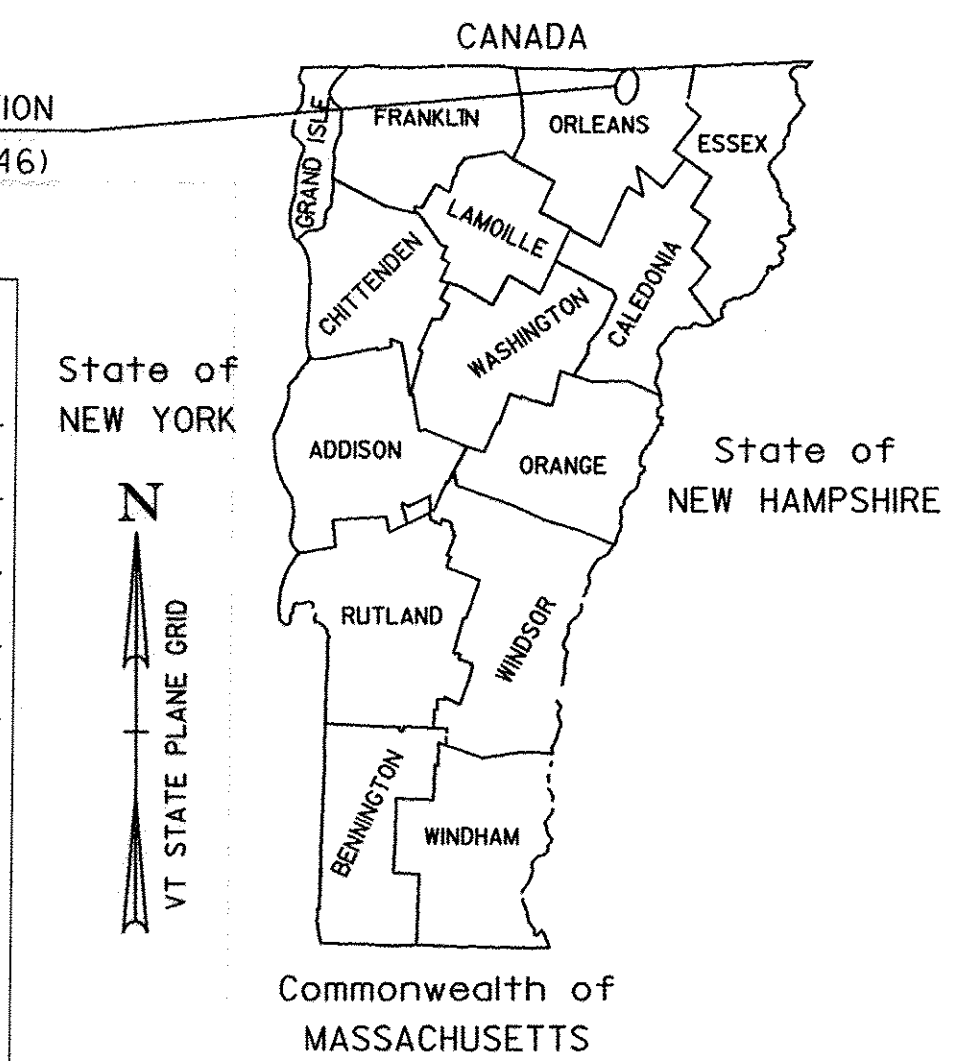
PROJECT LOCATION
AC 1M 091-3 (46)

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT
RESIDENT ENGINEER: DOUG BUMPS
CONSTRUCTION BEGAN: MAY 10, 2010
CONSTRUCTION COMPLETE: NOVEMBER 16, 2010
RECORD PLANS BY: DOUG BUMPS & C. PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.
BY *Doug Bumps* RESIDENT ENGINEER
DATE 7/6/11

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.



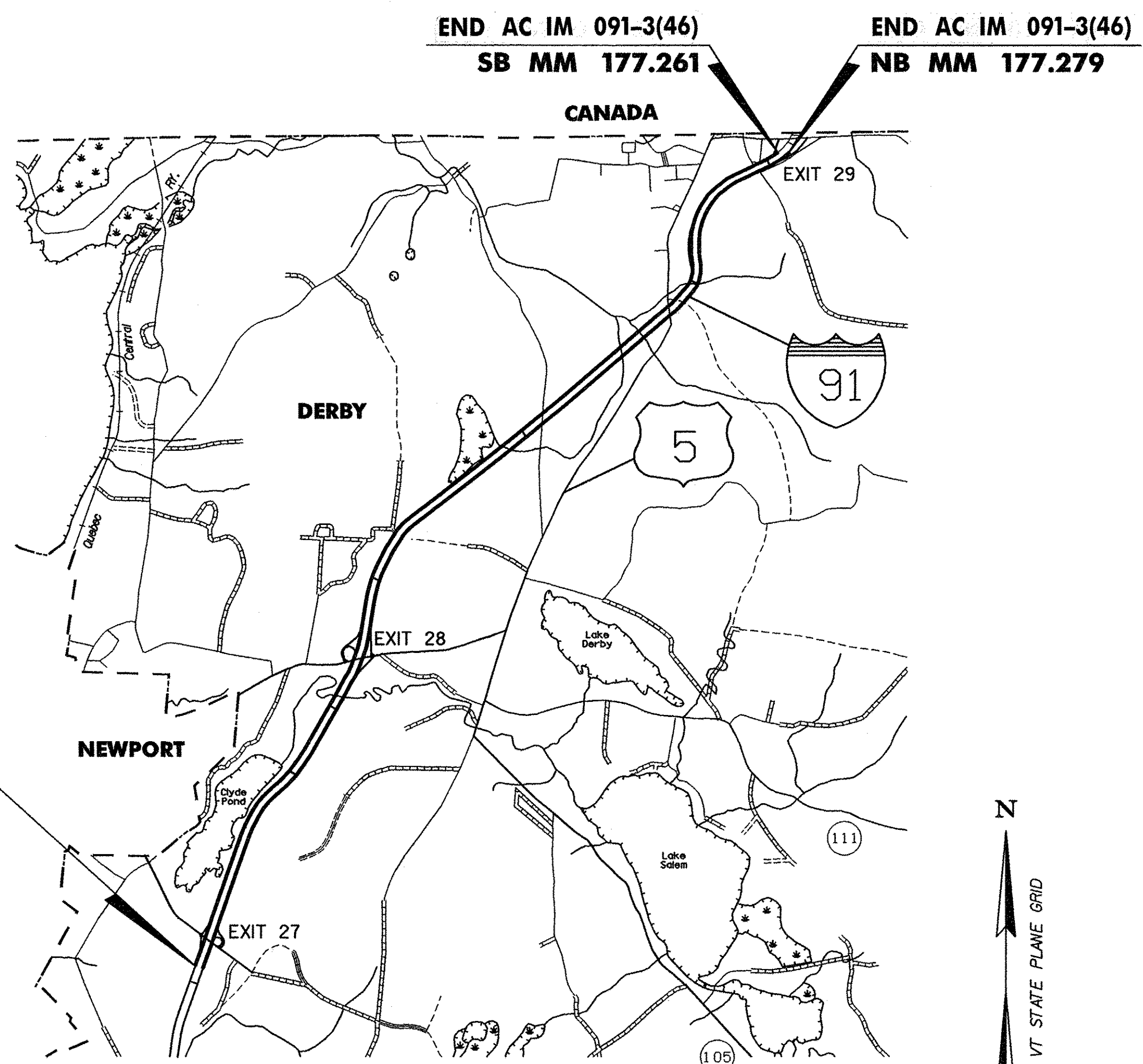
TRAFFIC DATA
INTERSTATE I-91

LOCATION	AADT		DHV		ESALS	
	2010	2020	2010	2020	2010-2020	2010-2030
NORTHBOUND I-91						
BEGIN PROJECT TO THE EXIT 28 RAMPS	2200	2300	400	420	2,037,000	5,254,000
BETWEEN EXIT 28 AND EXIT 29	1500	1600	270	290	788,000	2,086,000
BETWEEN EXIT 29 AND THE CANADIAN BORDER	1100	1200	200	220	586,000	1,571,000
SOUTHBOUND I-91						
BEGIN PROJECT TO THE EXIT 28 RAMPS	2300	2400	370	390	1,780,000	4,484,000
BETWEEN EXIT 28 AND EXIT 29	1500	1600	240	260	944,000	2,496,000
BETWEEN EXIT 29 AND THE CANADIAN BORDER	1000	1100	160	180	641,000	1,725,000

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARDRAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : N/A
SURVEYED DATE : N/A
DATUM
VERTICAL N/A
HORIZONTAL N/A



SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA

DESIGN LANE/DESIGN LIFE ESALS	5,254,000
DESIGN NUMBER OF GYRATIONS	80
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 OF THE GENERAL SPECIAL PROVISIONS

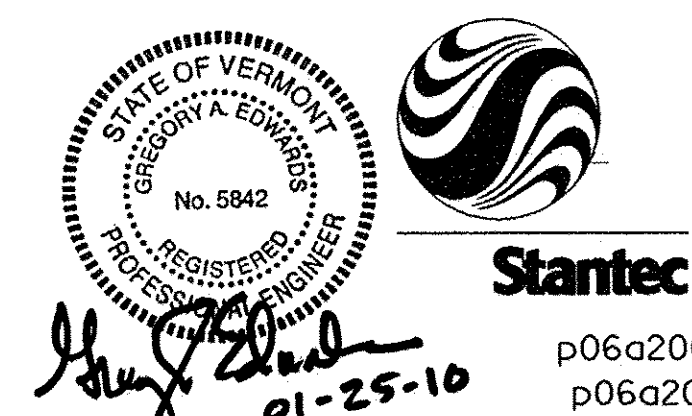
RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY PURPOSES.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

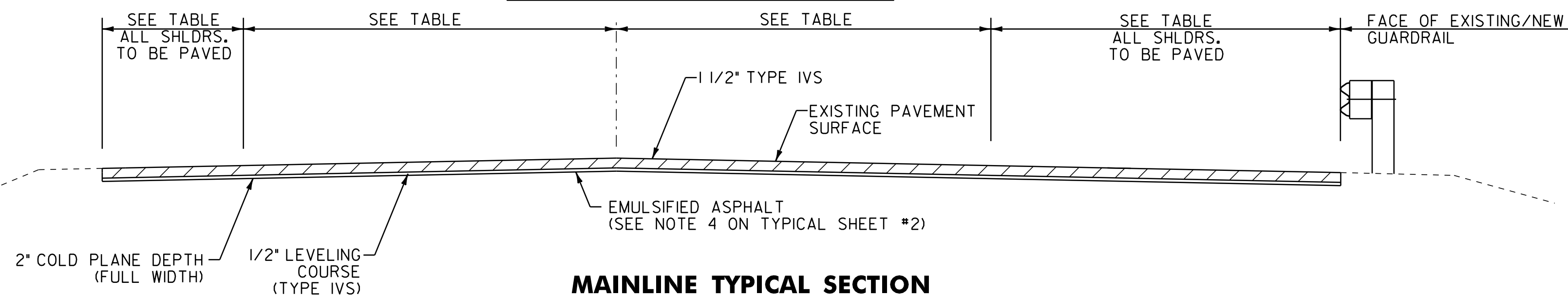
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN "NOT TO SCALE".

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR
APPROVED *Mark D. Riedinger* DATE 2-26-10
DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED *Richard Johnson* DATE 1-27-10
PROJECT MANAGER : KEVIN MARSHIA
PROJECT NAME : DERBY
PROJECT NUMBER : AC 1M 091-3 (46)
SHEET 1 OF 63 SHEETS



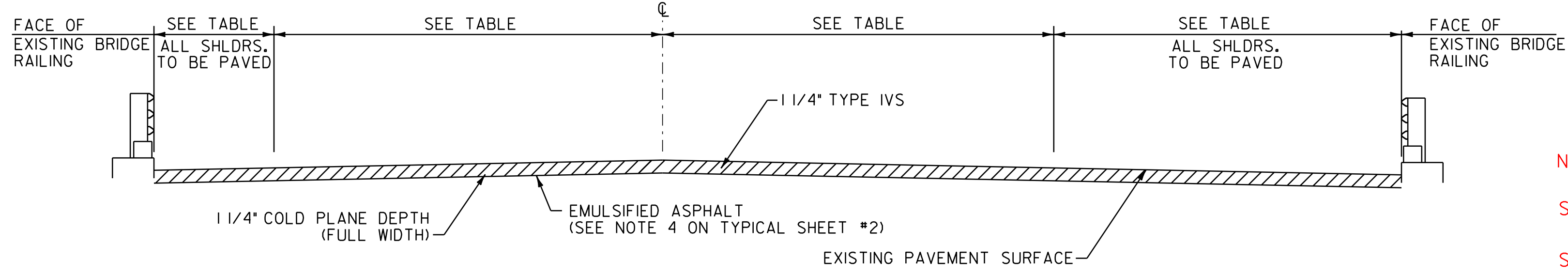
NOTE:
ALL TYPICALS DEPICT THE NORTHBOUND
CONFIGURATION. FOR SOUTHBOUND
LAYOUT, MIRROR THE TYPICALS SHOWN.



MAINLINE TYPICAL SECTION

NB MM 169.800 TO MM 172.013
NB MM 172.071 TO MM 175.763
NB MM 175.799 TO MM 177.279
SB MM 169.800 TO MM 172.013
SB MM 172.071 TO MM 175.784
SB MM 175.836 TO MM 177.261

NOTE
ABOUT 2 MILES OF EXISTING CURB BOARD ALONG WITH CURB DROP INLETS WERE ELIMINATED ON THIS PROJECT.



BRIDGE TYPICAL SECTION - BRIDGE NOS. 110N, 113N, 110S

NB MM 172.013 - 172.071 (BRIDGE NO. 110N)
NB MM 175.763 - 175.799 (BRIDGE NO. 113N)
SB MM 172.013 - 172.071 (BRIDGE NO. 110S)

THE ONLY CURB BOARD RETAINED ON MAINLINE AS FOLLOWS:
NB 172.105 - 172.120 RT CURB BOARD & ONE DI BRIDGE I10
SB 172.103 - 172.115 LT CURB BOARD & ONE DI BRIDGE I10
SB 175.782 - 175.797 LT CURB BOARD & ONE DI BRIDGE I13

RETAINED DI'S (CURB DI'S)
NB 172.120 RT
SB 172.115 LT
SB 175.782 LT

PROJECT DATA	LENGTH (MILES)	LENGTH (FEET)
I-9I NORTHBOUND MM 169.800 TO MM 177.279	7.479	39,489.12
I-9I SOUTHBOUND MM 169.800 TO MM 177.261	7.461	39,394.08
TOTAL LENGTH OF PROJECT =	14.940	78,883.20
TOTAL LENGTH OF ROADWAY =	14.940	78,883.20
I-9I INTERCHANGE #27 RAMP "A"	0.210	1,108.80
I-9I INTERCHANGE #27 RAMP "B"	0.263	1,388.64
I-9I INTERCHANGE #27 RAMP "C"	0.189	997.92
I-9I INTERCHANGE #27 RAMP "D"	0.193	1,019.04
I-9I INTERCHANGE #28 RAMP "A"	0.187	987.36
I-9I INTERCHANGE #28 RAMP "B"	0.276	1,457.28
I-9I INTERCHANGE #28 RAMP "C"	0.199	1,050.72
I-9I INTERCHANGE #28 RAMP "D"	0.170	897.60
I-9I WELCOME CENTER	0.360	1,900.80
I-9I INTERCHANGE #29 RAMP "A"	0.232	1,224.96
I-9I INTERCHANGE #29 RAMP "B"	0.111	586.08
I-9I INTERCHANGE #29 RAMP "C"	0.175	924.00
I-9I INTERCHANGE #29 RAMP "D"	0.096	506.88

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION (MM)	END STATION (MM)	LANE TYPICAL	WEARING DEPTH	LEVELING DEPTH	NOTES
INTERSTATE 9I NORTHBOUND	169.800	172.013	4'-0" - 12'-0" - 12'-0" - 10'-0"	1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	169.81		28'-0"	1-1/2"	-	U-TURN - PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	170.32		23'-0"	1-1/2"	-	U-TURN - PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	171.99		32'-0"	1-1/2"	1/2"	U-TURN - COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	172.013	172.071	4'-0" - 12'-0" - 12'-0" - 10'-0"	1-1/4"	-	BRIDGE I10N - COLD PLANE 1 1/4", PAVE WITH 1 1/4" TYPE IVS
INTERSTATE 9I NORTHBOUND	172.071	175.763	4'-0" - 12'-0" - 12'-0" - 10'-0"	1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	172.97		28'-0"	1-1/2"	-	U-TURN - PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	174.44		29'-0"	1-1/2"	1/2"	U-TURN - COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	175.763	175.799	4'-0" - 12'-0" - 12'-0" - 15'-0"	1-1/4"	-	BRIDGE I13N - COLD PLANE 1 1/4", PAVE WITH 1 1/4" TYPE IVS
INTERSTATE 9I NORTHBOUND	175.799	177.279	4'-0" - 12'-0" - 12'-0" - 10'-0"	1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	176.08		29'-0"	1-1/2"	-	U-TURN - PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I NORTHBOUND	177.35		29'-0"	1-1/2"	-	U-TURN - PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I SOUTHBOUND	169.800	172.013	10'-0" - 12'-0" - 12'-0" - 4'-0"	1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I SOUTHBOUND	172.013	172.071	10'-0" - 12'-0" - 12'-0" - 4'-0"	1-1/4"	-	BRIDGE I10S - COLD PLANE 1 1/4", PAVE WITH 1 1/4" TYPE IVS
INTERSTATE 9I SOUTHBOUND	172.071	175.784	10'-0" - 12'-0" - 12'-0" - 4'-0"	1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
INTERSTATE 9I SOUTHBOUND	175.784	175.836	N/A	N/A	N/A	BRIDGE I13S - NO COLD PLANING OR PAVING UNDER THIS CONTRACT
INTERSTATE 9I SOUTHBOUND	175.836	177.261	10'-0" - 12'-0" - 12'-0" - 4'-0"	1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #27 RAMP "A"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #27 RAMP "B"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #27 RAMP "C"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #27 RAMP "D"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #28 RAMP "A"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #28 RAMP "B"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #28 RAMP "C"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #28 RAMP "D"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I WELCOME CENTER	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #29 RAMP "A"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #29 RAMP "B"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #29 RAMP "C"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.
I-9I INTERCHANGE #29 RAMP "D"	SEE LAYOUT SHEETS	VARIABLES - SEE LAYOUT SHEETS		1-1/2"	1/2"	COLD PLANE 2", LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS.

ALL OTHER CURB DI'S WERE FILLED AND ELIMINATED BUT SLOPE PIPE REMAIN.

PAVEMENT CORE DATA			
CORE #	LOCATION	DEPTH (INCHES)	PCC
1	NB MM 170.53	4	NO
2	NB MM 171.50	3 3/8	NO
3	NB MM 172.50	5	NO
4	NB MM 173.50	5	NO
5	NB MM 174.50	3 1/2	NO
6	NB MM 175.50	4 1/4	NO
7	NB MM 176.50	10	NO
8	NB MM 177.13	4 1/4	NO
9	SB MM 176.85	4 3/4	NO
10	SB MM 175.90	4	NO
11	SB MM 174.95	5	NO
12	SB MM 174.00	4 1/2	NO
13	SB MM 173.00	4 1/4	NO
14	SB MM 172.00	4 1/2	NO
15	SB MM 171.00	4 1/2	NO
16	SB MM 170.50	4	NO

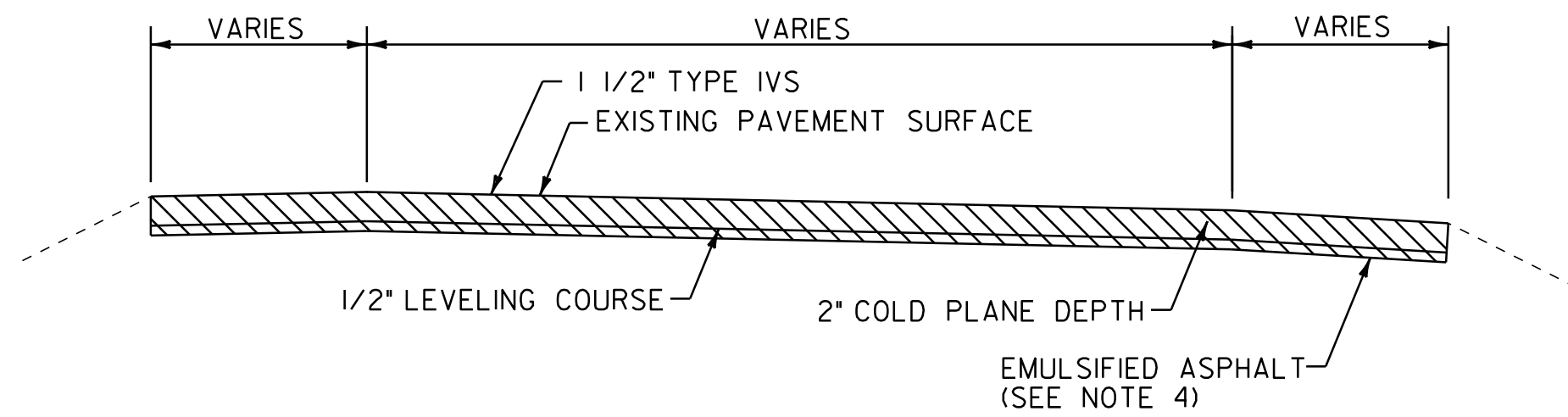
PAVEMENT CORES TAKEN ON THE 10' SHOULDER ONLY



PROJECT TYPICAL SHEET #1

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2010 10:21
PROJECT NUMBER: IM 091-3 (1)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 2 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200pts01.i	

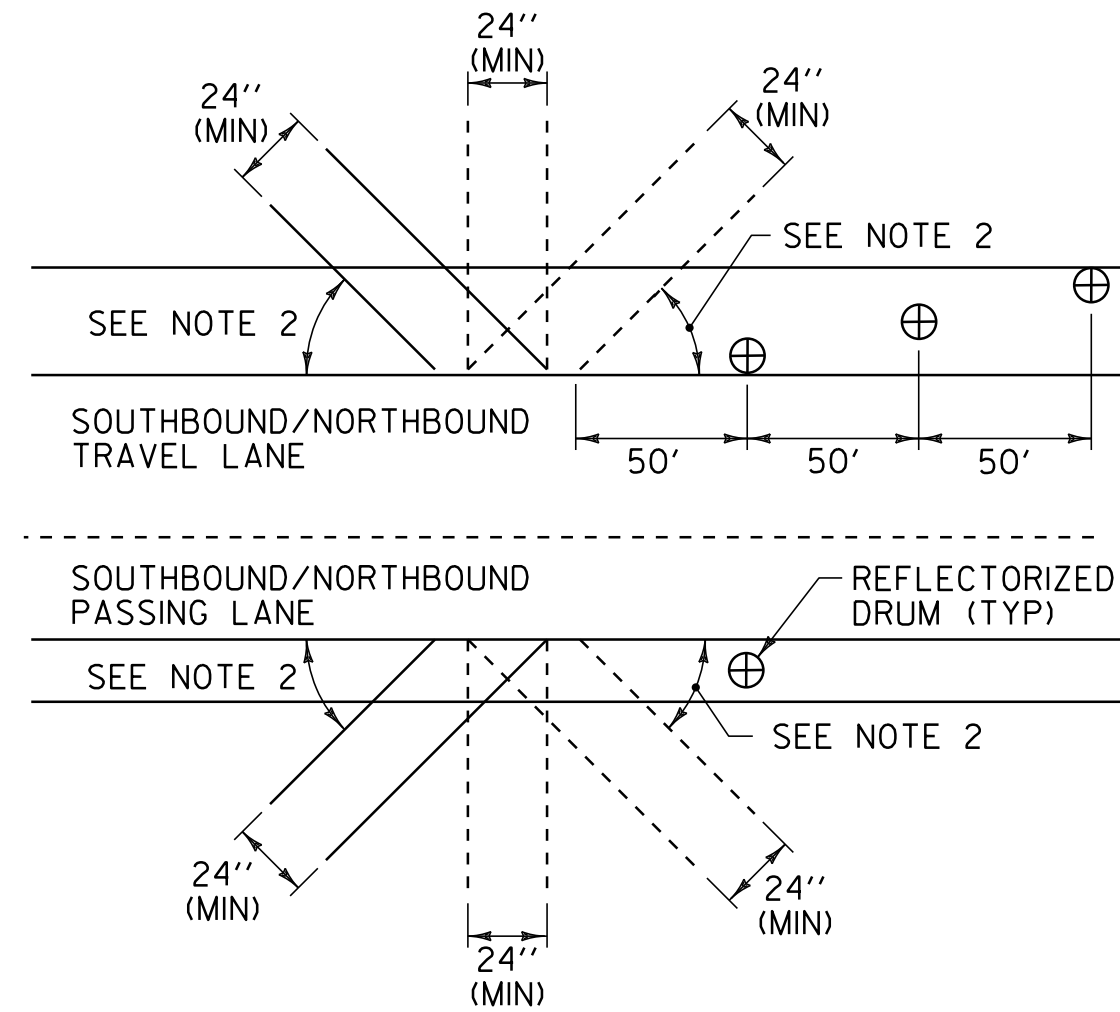
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RAMPS TYPICAL SECTION

FULL ROADWAY WIDTH

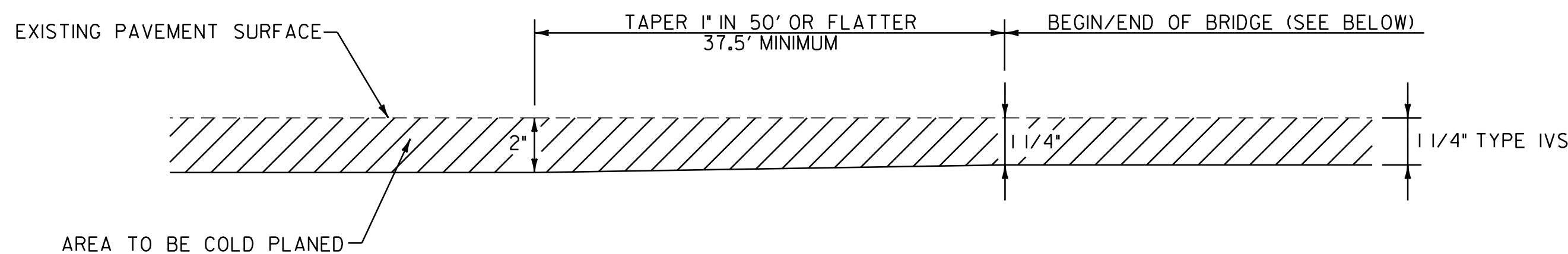
EXIT 27 RAMP *A*	1,108.80 FT LENGTH
EXIT 27 RAMP *B*	1,388.64 FT LENGTH
EXIT 27 RAMP *C*	997.92 FT LENGTH
EXIT 27 RAMP *D*	1,019.04 FT LENGTH
EXIT 28 RAMP *A*	987.36 FT LENGTH
EXIT 28 RAMP *B*	1,457.28 FT LENGTH
EXIT 28 RAMP *C*	1,050.72 FT LENGTH
EXIT 28 RAMP *D*	897.60 FT LENGTH
EXIT 29 RAMP *A*	1,224.96 FT LENGTH
EXIT 29 RAMP *B*	586.08 FT LENGTH
EXIT 29 RAMP *C*	924.00 FT LENGTH
EXIT 29 RAMP *D*	506.88 FT LENGTH



BLEEDER DETAIL

NOTES:

- BLEEDERS ARE TO BE CUT WHILE COLD PLANING AT LOCATIONS SPECIFIED BY THE RESIDENT ENGINEER.
- ANGLE BLEEDERS TO BEST ACCEPT WATER FLOW.
- CUT ALL BLEEDERS TO THE DEPTH OF COLD PLANING AND GRADE TO DRAIN. PAYMENT INCLUDED IN THE UNIT PRICE BID FOR ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
- BLEEDERS ARE TO BE FILLED DURING PAVING WITH ITEM 490.30 OR AS DIRECTED BY THE RESIDENT ENGINEER.
- REFLECTORIZED DRUMS MUST BE PLACED AS SHOWN TO WARN MOTORISTS OF THE GAP IN THE SHOULDER. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10 TRAFFIC CONTROL AS DIRECTED BY THE RESIDENT ENGINEER.
- BLEEDERS SHALL NOT BE REQUIRED IF THE COLD PLANED AREAS ARE PAVED BACK THE SAME DAY AS DIRECTED BY THE RESIDENT ENGINEER.



BRIDGE TRANSITION DETAIL

NB MM 172.006 - 172.013	(BRIDGE NO. 110N)
NB MM 172.071 - 172.078	(BRIDGE NO. 110N)
NB MM 175.756 - 175.763	(BRIDGE NO. 113N)
NB MM 175.799 - 175.806	(BRIDGE NO. 113N)
SB MM 172.006 - 172.013	(BRIDGE NO. 110S)
SB MM 172.071 - 172.078	(BRIDGE NO. 110S)

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREeping RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80 LB/A			

NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED ITEM 651.15: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER ITEM 651.18: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

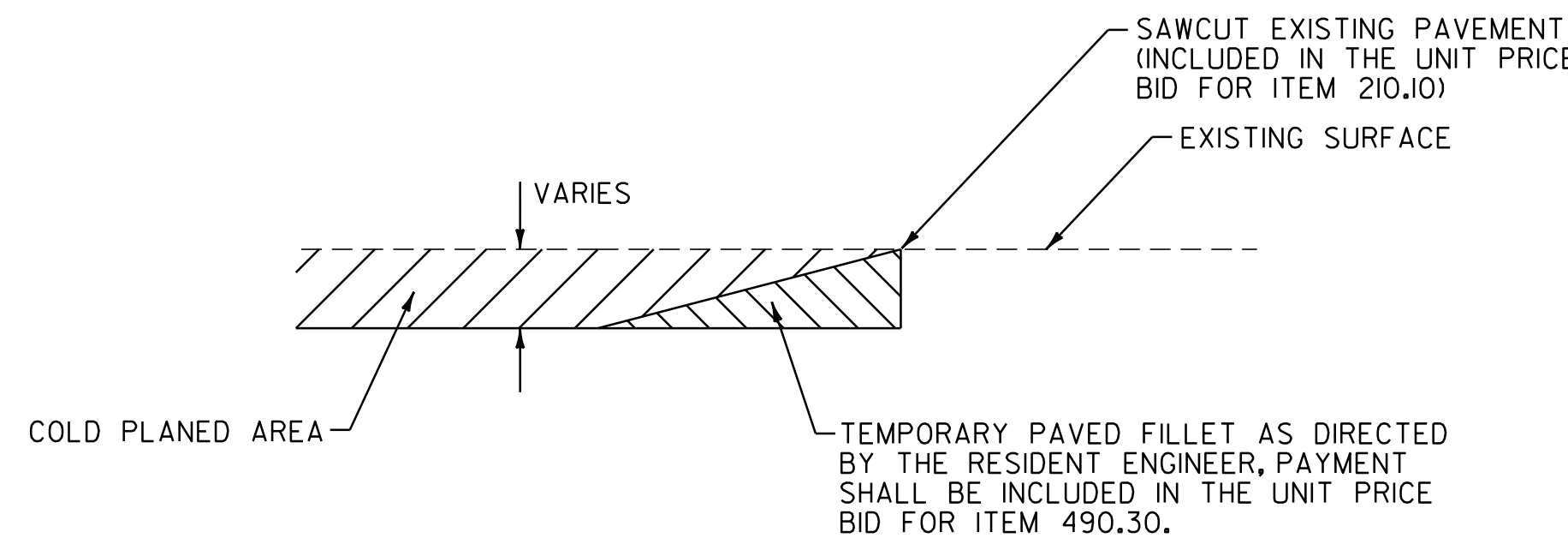
AGRICULTURAL LIMESTONE ITEM 651.20: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH ITEM 651.25: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL ITEM 651.35: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

GRADES LESS THAN 1 PERCENT SHALL USE ITEM 651.15, SEED AND ITEM 651.25, HAY MULCH. GRADES BETWEEN 1 AND 2.5 PERCENT SHALL USE ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE RESIDENT ENGINEER. GRADES OVER 2.5 PERCENT SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE RESIDENT ENGINEER.

PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGHOUT THE PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).



DETAIL AT VERTICAL COLD PLANE JOINTS

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW AS DIRECTED BY THE RESIDENT ENGINEER.

FULL ROADWAY WIDTH

INTERSTATE 91 NB MM 169.800	(BEGIN PROJECT)
INTERSTATE 91 NB MM 177.279	(END PROJECT)
INTERSTATE 91 SB MM 169.800	(BEGIN PROJECT)
INTERSTATE 91 SB MM 175.784	(BR 113S)
INTERSTATE 91 SB MM 175.836	(BR 113S)
INTERSTATE 91 SB MM 177.261	(END PROJECT)
INTERCHANGE *27 RAMP *A*	AT VT ROUTE 191
INTERCHANGE *27 RAMP *B*	AT VT ROUTE 191
INTERCHANGE *27 RAMP *C*	AT VT ROUTE 191
INTERCHANGE *27 RAMP *D*	AT VT ROUTE 191
INTERCHANGE *28 RAMP *A*	AT U.S. ROUTE 5
INTERCHANGE *28 RAMP *B*	AT U.S. ROUTE 5
INTERCHANGE *28 RAMP *C*	AT U.S. ROUTE 5
INTERCHANGE *28 RAMP *D*	AT U.S. ROUTE 5
INTERCHANGE *29 RAMP *A*	AT ALT. U.S. ROUTE 5
INTERCHANGE *29 RAMP *B*	AT ALT. U.S. ROUTE 5
INTERCHANGE *29 RAMP *C*	AT ALT. U.S. ROUTE 5
INTERCHANGE *29 RAMP *D*	AT ALT. U.S. ROUTE 5

NOTES

- THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4". (TOTAL THICKNESS EXCLUDING LEVELING)
- EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, ON COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. THE COLD PLANING AND PAVING SHALL MATCH THE EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AREAS BY THE USE OF A VERTICAL COLD PLANE JOINT. SEE DETAIL BELOW.
- EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATION WILL BE PAID FOR AS ALL PURPOSE EXCAVATOR RENTAL OR GRADER RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. AN ESTIMATED QUANTITY OF ITEM 301.40 SUBBASE, RAP HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT. IN AREAS OF RUTTING, THE COLD PLANE DEPTH SHOULD BE MEASURED FROM THE HIGH POINTS OF THE ROADWAY SECTION.
- AREAS ADJACENT TO THE SHOULDER WHERE EXISTING GUARDRAIL IS BEING RETAINED THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 203.40 SHOULDER BERM REMOVAL.
- AREAS ADJACENT TO THE SHOULDER WHERE NO GUARDRAIL EXISTS THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN AS DIRECTED BY THE RESIDENT ENGINEER AND SHALL BE PAID FOR UNDER ITEM 608.15 POWER GRADER RENTAL.
- ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES. AN ESTIMATED 25 CUBIC YARDS OF 203.30 EARTH BORROW HAS BEEN INCLUDED FOR THE CONSTRUCTION OF THE GUARDRAIL END SECTION FLARES. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARES. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
- STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
- THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE RESIDENT ENGINEER.
- AN ESTIMATED QUANTITY OF ITEM 621.79 ADJUST HEIGHT OF GUARDRAIL HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER.
- A QUANTITY FOR ITEM 604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, ITEM 604.415 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II, ITEM 604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III AND ITEM 604.40 CHANGING ELEVATION OF DI, CB, OR MH HAS BEEN INCLUDED TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHAB HAVE BEEN EVENLY DISTRIBUTED BETWEEN ITEMS 604.412, 604.415, AND 604.418 FOR ESTIMATING PURPOSES.
- A QUANTITY OF ITEM 620.75 SNOW BARRIER, GALVANIZED HAS BEEN INCLUDED FOR USE ON BRIDGES I13-N AND I13-S AS DIRECTED BY THE RESIDENT ENGINEER.
- AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL DELINEATORS WITHIN THE PROJECT AREA ARE TO BE REPLACED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 676.10 DELINEATOR WITH STEEL POST.

NOT TO SCALE

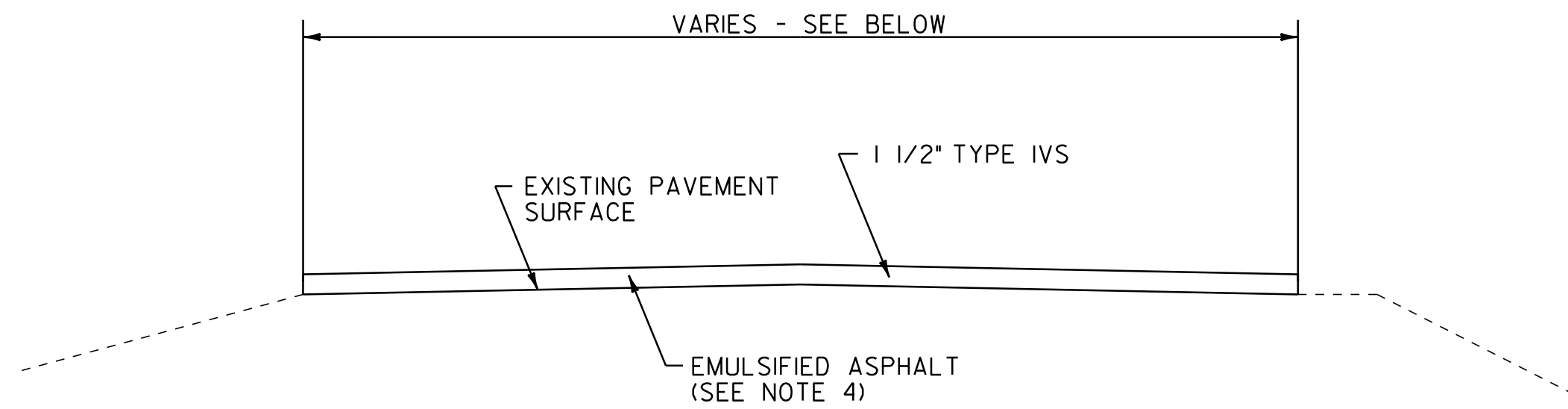
PROJECT TYPICAL SHEET #2

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3 (1)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200pts02.i

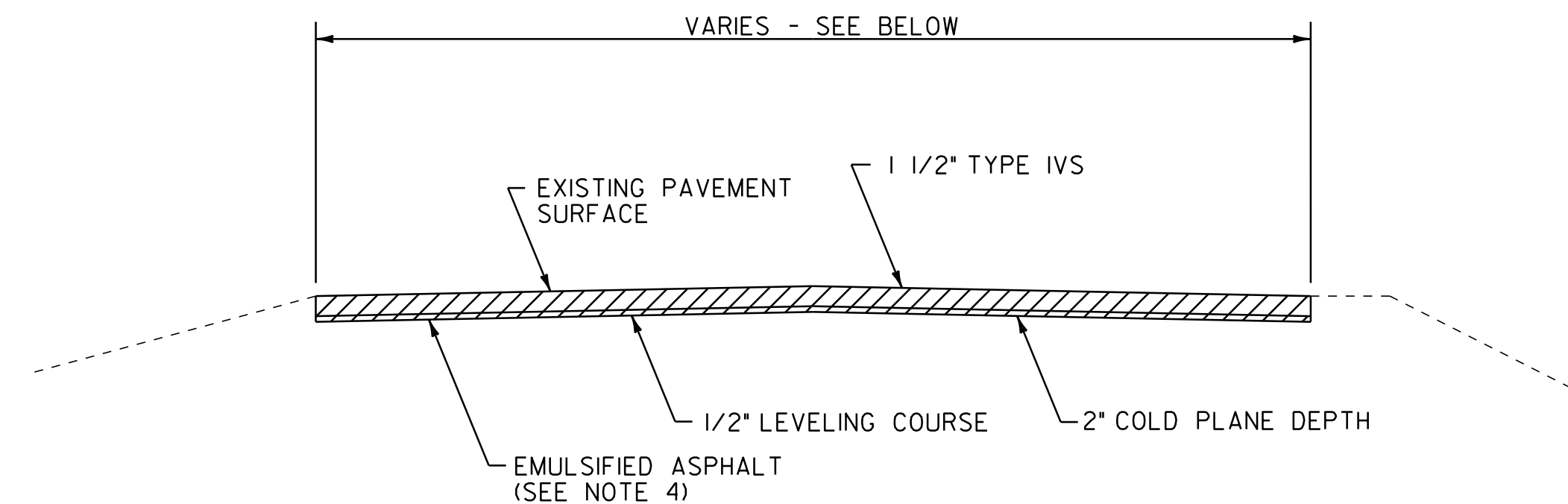
PLOT DATE: 07-SEP-2010 10:21
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 3 OF 63





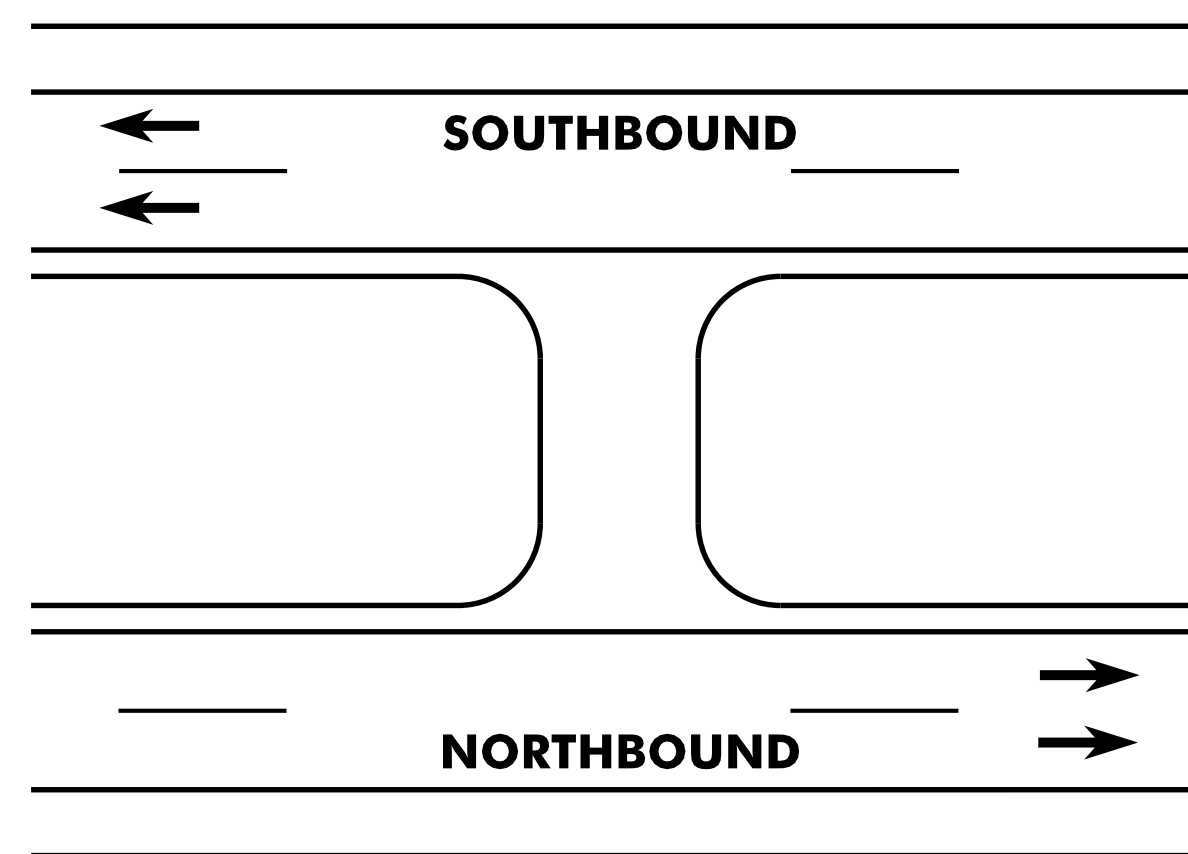
OVERLAY U-TURN TYPICAL SECTION

N.B. MM 169.81 (28'x106')
 N.B. MM 170.32 (23'x265')
 N.B. MM 172.97 (28'x82')
 N.B. MM 176.08 (29'x52')
 N.B. MM 177.35 (29'x51')



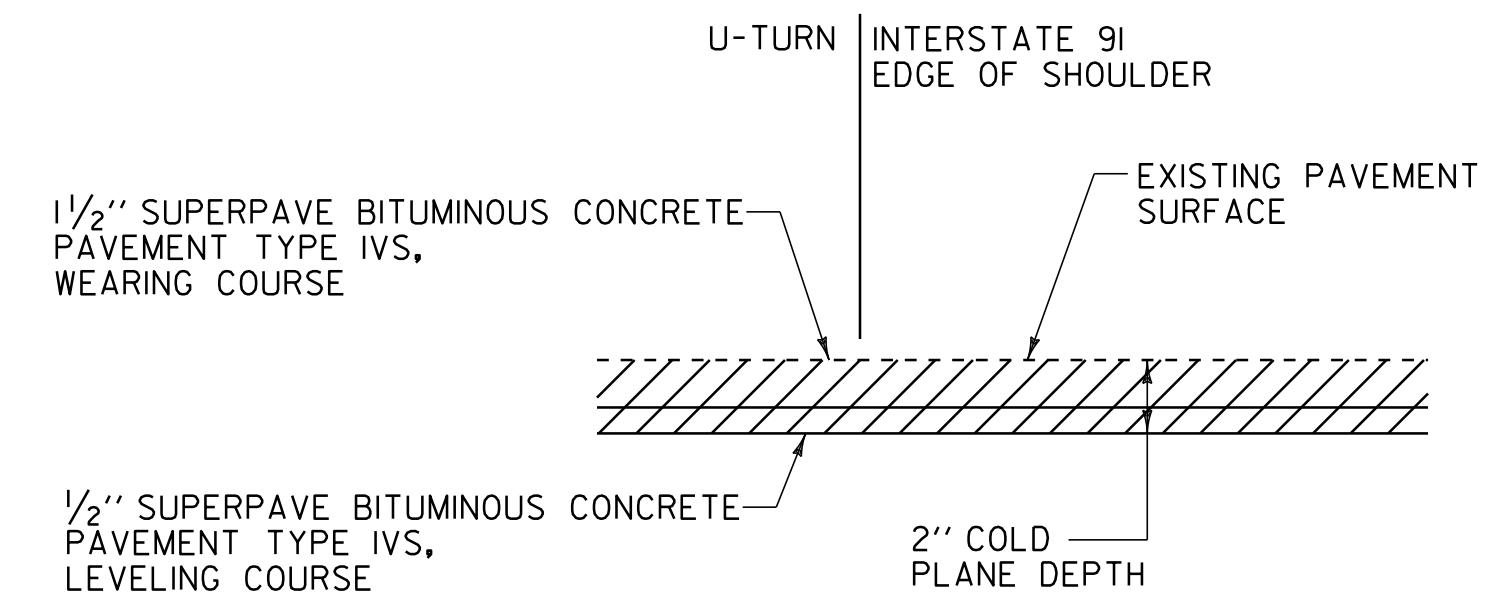
COLD PLANE U-TURN TYPICAL SECTION

N.B. MM 171.99 (32' WIDE)
 N.B. MM 174.44 (29' WIDE)



U-TURN DETAIL

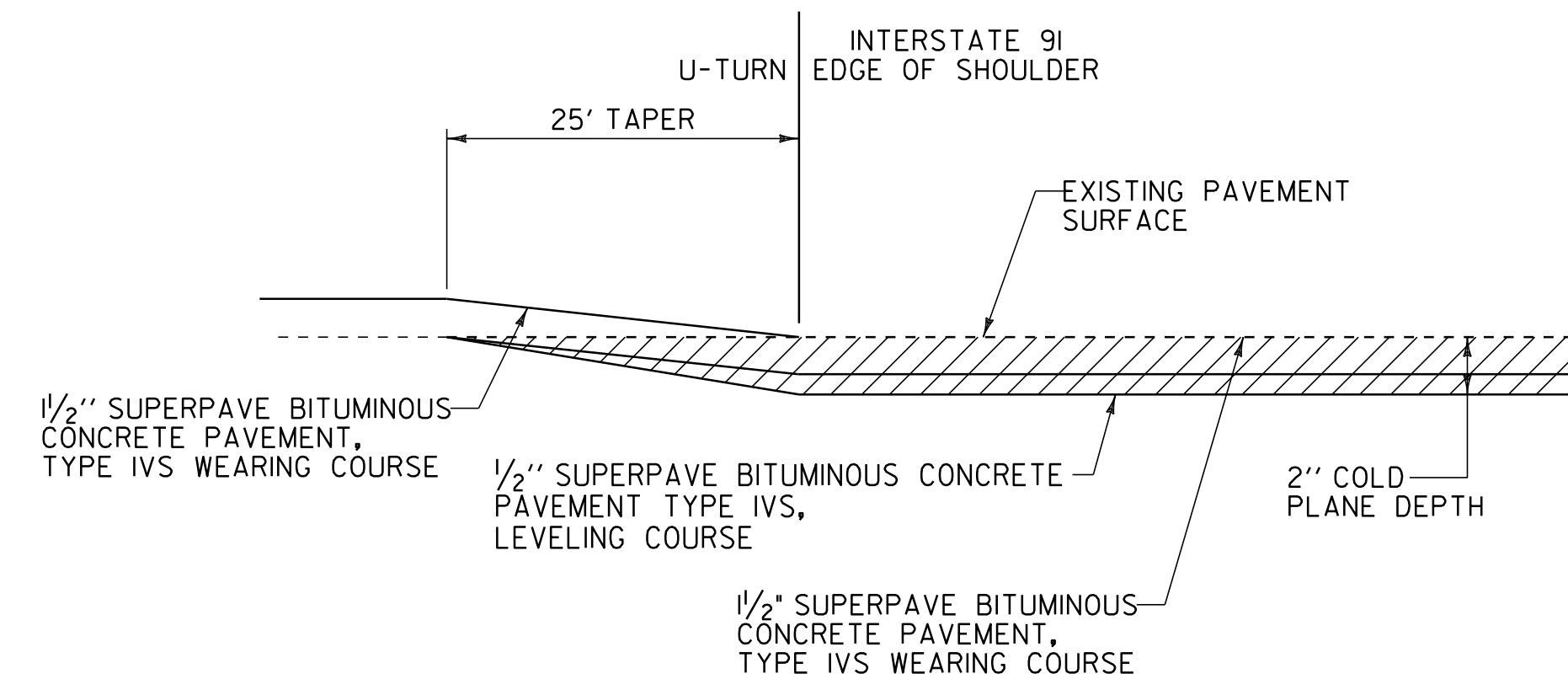
N.B. MM 169.81 (28'x106')
 N.B. MM 170.32 (23'x265')
 N.B. MM 171.99 (32'x42')
 N.B. MM 172.97 (28'x82')
 N.B. MM 174.44 (29'x50')
 N.B. MM 176.08 (29'x52')
 N.B. MM 177.35 (29'x51')



U-TURN PAVING DETAIL

U-TURN LENGTH LESS THAN 50 FEET

N.B. MM 171.99 (32' WIDE)
 N.B. MM 174.44 (29' WIDE)



U-TURN PAVING TRANSITION DETAIL

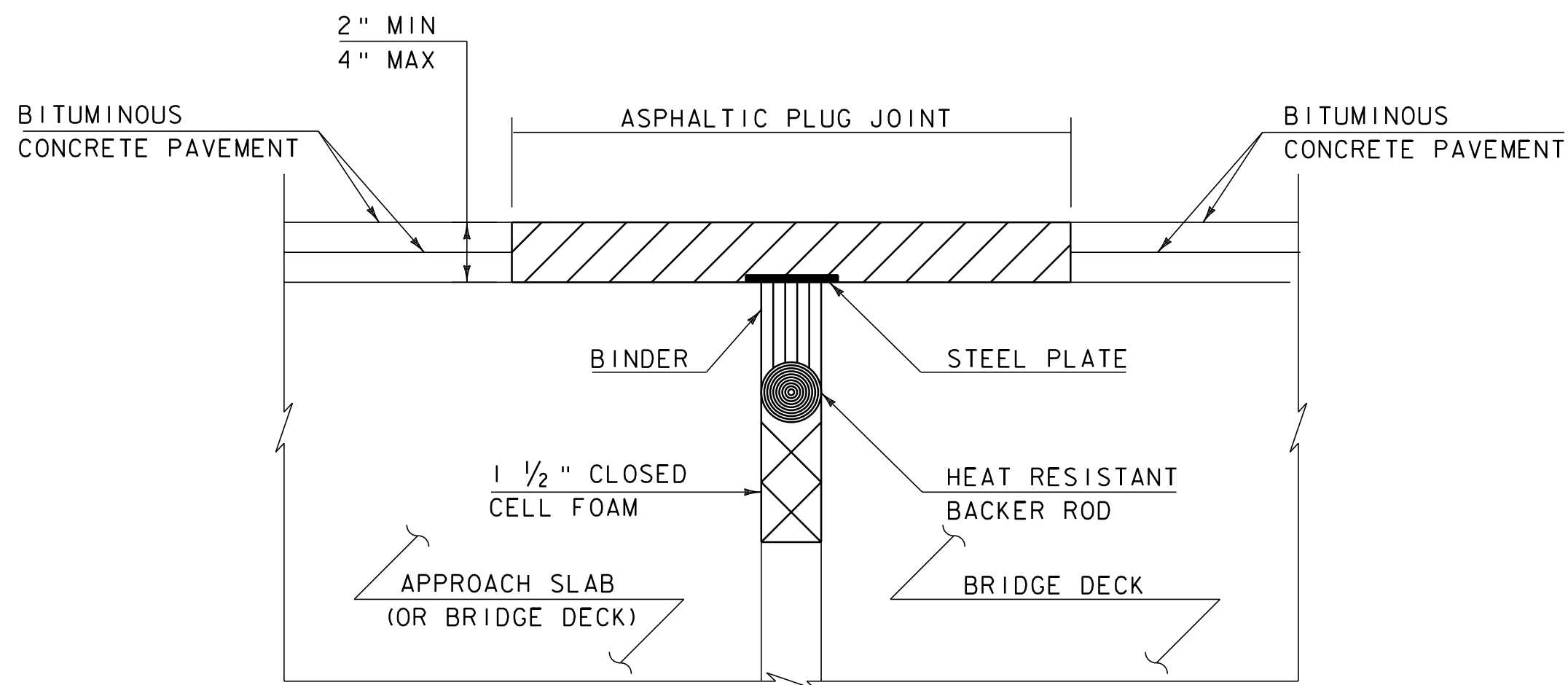
U-TURN LENGTH GREATER THAN 50 FEET

N.B. MM 169.81 (28'x106')
 N.B. MM 170.32 (23'x265')
 N.B. MM 172.97 (28'x82')
 N.B. MM 176.08 (29'x52')
 N.B. MM 177.35 (29'x51')

NOT TO SCALE

U-TURN DETAIL SHEET	PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:21
	PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
	FILE NAME: p06a200.dgn	CHECKED BY: JLL
	PROJECT LEADER: JLL DESIGNED BY: STANTEC IPARM FILE: p06a200utds.i	SHEET 4 OF 63

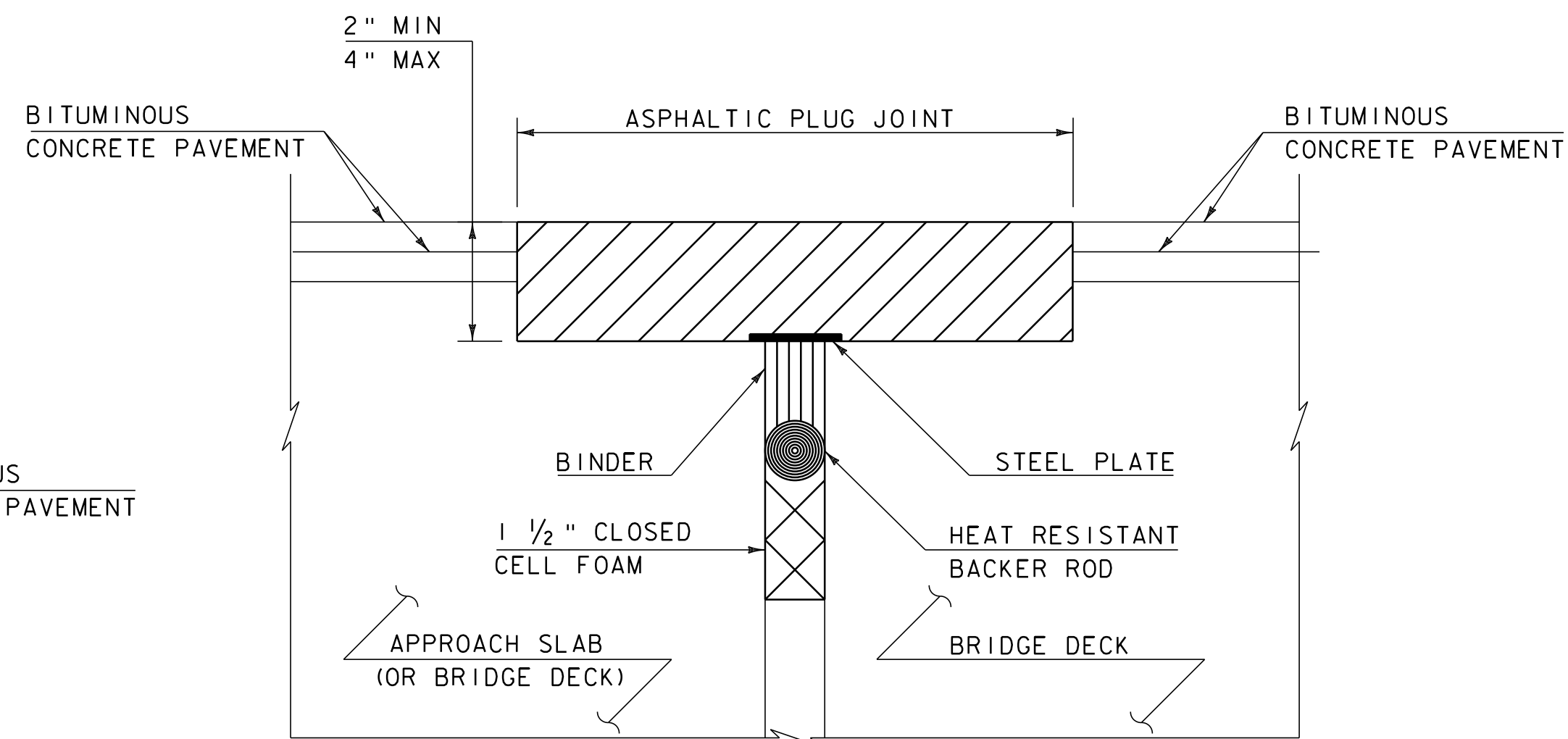




**ASPHALTIC PLUG-TYPE
JOINT DETAIL**

(NOT TO SCALE)

BR 110N	INTERSTATE 91 NB	DERBY	MM	172.071	(38 LF)
BR 113N	INTERSTATE 91 NB	DERBY	MM	175.763	(49 LF)
BR 113N	INTERSTATE 91 NB	DERBY	MM	175.799	(49 LF)
BR 110N	INTERSTATE 91 SB	DERBY	MM	172.013	(38 LF)



**ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF < 2" DETERIORATED CONCRETE**

(NOT TO SCALE)

NOTES:

- UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
- REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.

NOTES:

- UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE FORMED TO EXISTING ELEVATION.
- REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
- REINFORCING STEEL NOT SHOWN FOR CLARITY.

ASPHALTIC PLUG JOINT NOTES

I. INSTALLATION

- LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
- REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
- BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
- REPAIR SPALLED AND DEFECTIVE CONCRETE WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.
- PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
- HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
- PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
- HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
- INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
- ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.
- PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

2. WEATHER LIMITATIONS. (APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER):

- THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
- THE ROAD SURFACE IS DRY.
- WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

NOT TO SCALE

**ASPHALTIC
PLUG JOINT
DETAILS SHEET**

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3 (1)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200apjds.i

PLOT DATE: 07-SEP-2011 10:21
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 5 OF 63

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES					TOTALS		DESCRIPTIONS			
ROADWAY	EMPLOYEE TRAINEESHIP	BRIDGE	EROSION CONTROL	FULL C. E. ITEMS	GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUND	
55					55	CY	COMMON EXCAVATION	203.15	1.9	
960					960	CY	EARTH BORROW	203.30	10	
24200					24200	LF	SHOULDER BERM REMOVAL	203.40	101	
1					1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	
361500					361500	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	215	
129000					129000	LF	MILLED RUMBLE STRIPS	213.10	349	
4					4	CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	0.3	
6					6	TON	SUBBASE, RAP	301.40	0.1	
130					130	TON	AGGREGATE SHOULDERS, RAP	402.13	5	
1500					1500	CWT	EMULSIFIED ASPHALT	404.65	6.4	
1					1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	
42250					42250	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	152	
1					1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-	
1					1	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-	
1					1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-	
1					1	LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-	
		175			175	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	1	
		100			100	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.	
39					39	EA	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST.	
35					35	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.	
34					34	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.	
34					34	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	EST.	
445					445	HR	POWER GRADER RENTAL	608.15	EST.	
445					445	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.	
265					265	HR	POWER BROOM RENTAL, TYPE I	608.30	EST.	
445					445	HR	POWER BROOM RENTAL, TYPE II	608.31	EST.	
445					445	HR	TRUCK RENTAL	608.37	EST.	
445					445	HR	LOADER RENTAL, TYPE I	608.40	EST.	
			110		110	CY	STONE FILL, TYPE I	613.10	3.7	
			50		50	CY	STONE FILL, TYPE II	613.11	EST.	
1300					1300	LF	TREATED TIMBER CURB	616.35	22	
35					35	TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	2.1	
25					25	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	2.8	
26					26	SF	DETECTABLE WARNING SURFACE	618.30	2	
325					325	EA	YIELDING MARKER POSTS	619.17	6	
310					310	LF	SNOW BARRIER, GALVANIZED	620.75	9	
6900					6900	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	40.5	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
162725	SY	NORTHBOUND MAINLINE
2203	SY	NORTHBOUND BRIDGES
148130	SY	SOUTHBOUND MAINLINE
1294	SY	SOUTHBOUND BRIDGES
14789	SY	INTERCHANGE NO. 27 RAMPS
14765	SY	INTERCHANGE NO. 28 RAMPS
8160	SY	INTERCHANGE NO. 29 RAMPS
8452	SY	WELCOME CENTER
767	SY	U-TURNS
215	SY	ROUNDING
361500	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
14238	TON	NORTHBOUND MAINLINE WEARING COURSE
162	TON	NORTHBOUND BRIDGES WEARING COURSE
12961	TON	SOUTHBOUND MAINLINE WEARING COURSE
95	TON	SOUTHBOUND BRIDGES WEARING COURSE
1294	TON	INTERCHANGE NO. 27 RAMPS WEARING COURSE
1292	TON	INTERCHANGE NO. 28 RAMPS WEARING COURSE
714	TON	INTERCHANGE NO. 29 RAMPS WEARING COURSE
739	TON	WELCOME CENTER WEARING COURSE
171	TON	U-TURNS WEARING COURSE
10432	TON	LEVELING
152	TON	ROUNDING
42250	TON	TOTAL
		STONE FILL, TYPE I
60	CY	DITCH CLEANING
46.3	CY	SLOPE EROSION REPAIR
3.7	CY	ROUNDING
110	CY	TOTAL
		GEOTEXTILE UNDER STONE FILL
280	SY	DITCH CLEANING
496	SY	SLOPE EROSION REPAIR
24	SY	ROUNDING
800	SY	TOTAL

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:21
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 6 OF 63
IPARM FILE: p06a200qs01.i	

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES					TOTALS		DESCRIPTIONS			
ROADWAY	EMPLOYEE TRAINEESHIP	BRIDGE	EROSION CONTROL	FULL C. E. ITEMS	GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUND	
37					37	EA	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-	
35					35	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-	
13					13	EA	ANCHOR FOR CABLE RAIL	621.65	EST.	
400					400	LF	ALUMINUM APPROACH RAILING	621.74	-	
802					802	EA	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST.	
403					403	EA	REPLACE GUARDRAIL BEAM UNIT	621.77	EST.	
203					203	LF	ADJUST HEIGHT OF GUARDRAIL	621.79	EST.	
3096					3096	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-	
3140					3140	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	
9420					9420	HR	FLAGGERS	630.15	EST.	
				I	I	LS	FIELD OFFICE, ENGINEERS	631.10	-	
				I	I	LS	TESTING EQUIPMENT, CONCRETE	631.16	-	
				I	I	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-	
				I	I	LU	FIELD OFFICE TELEPHONE (N. A. B. I.)	631.25	-	
	520				520	HR	EMPLOYEE TRAINEESHIP	634.10	-	
I					I	LS	MOBILIZATION/DEMOBILIZATION	635.11	-	
I					I	LS	TRAFFIC CONTROL	641.10	-	
8					8	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-	
735					735	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	5	
115500					115500	LF	DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA	646.426	1123	
93700					93700	LF	DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA	646.436	889	
5120					5120	LF	DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA	646.466	21	
115					115	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	4	
115					115	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	5	
1500					1500	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	40	
231000					231000	LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	2246	
187500					187500	LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	1878	
10300					10300	LF	TEMPORARY 12 INCH WHITE LINE, PAINT	646.662	102	
225					225	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	3	
225					225	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	5	
5700					5700	EA	LINE STRIPING TARGETS	646.76	59	
			800		800	SY	GEOTEXTILE UNDER STONE FILL	649.31	24	
			100		100	LB	SEED	651.15	2	
			500		500	LB	FERTILIZER	651.18	EST.	
			2		2	TON	AGRICULTURAL LIMESTONE	651.20	EST.	
			2		2	TON	HAY MULCH	651.25	EST.	
			25		25	CY	TOPSOIL	651.35	EST.	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		SEED
18	LB	DITCH CLEANING
80	LB	EROSION CONTROL
2	LB	ROUNDING
100	LB	TOTAL
		TEMPORARY EROSION MATTING
1334	SY	DITCH CLEANING
950	SY	M. T. S. CONSTRUCTION
3388	SY	SEED PROTECTION
28	SY	ROUNDING
5700	SY	TOTAL

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:22
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 7 OF 63
IPARM FILE: p06a200qs02.i	

ITEM DETAIL SUMMARY SHEET 1

LOCATION			GUARDRAIL											MISCELLANEOUS								604.412 604.415		REMARKS						
																						613.10	616.35							
BEGIN MILE MARKER	END MILE MARKER	POS.	S.B. G.R. GALV. LF	MTS. FLARED EA	ANCHOR FOR S.B. G.R. EA	ANCHOR FOR CABLE RAIL EA	ALUM. APP. RAILING LF	REPLACE G.R. POST ASS. EA	REPLACE G.R. BEAM UNIT EA	ADJUST HT. OF GUARD RAIL LF	REMOV. & DISP. G.R. LF	S.P. (CABLE G.R. J-BOLT GALV.) EA	S.P. (CABLE G.R. SPLICE UNIT EA	RPLCMNT. OF G.R. CABLE LF	COMMON EXCAV. CY	EARTH BORROW CY	SHLDR BERM REMOV. LF	SUBBASE CRUSHED GRAVEL CY	AGG. SHLDRS., RAP TON	CHANGE ELEV. DI. CB, OR MH EA	REHAB DI. CB, OR MH, CL. I, II OR III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF							
NORTHBOUND						5								500						53	20	51			466.7	QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER				
169.800	177.279																													
NORTHBOUND																														
169.971	170.075	LT	514.5	1	1																				25	INSTALL MTS FLARED AT MM 169.971. INSTALL ANCHOR AT MM 170.075.				
170.215	170.260	LT	52.0	1	1						6	3													25	152	INSTALL MTS FLARED AT MM 170.215. INSTALL ANCHOR AT MM 170.260. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 170.222 AND 25.0 LF AT MM 170.255.			
170.334	170.893	LT	52.0	1	1						92	46													2.2	25	2862	2.2	279	INSTALL MTS FLARED AT MM 170.334. INSTALL ANCHOR AT MM 170.893. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 170.341 AND 25.0 LF AT MM 170.888. INSTALL 279 LF OF NEW TREATED TIMBER CURB AT MM 170.748. REPAIR SLOPE EROSION AT MM 170.415, LT AND 170.719, LT
170.364	170.802	RT											105	2															REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.162	171.487	LT											77	2											14.3		14.3	REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER. REPAIR SLOPE EROSION AT MM 171.292, 171.310, 171.332, 171.359, 171.385, 171.392, 171.398, 171.404, 171.437, 171.440, 171.443, 171.452, AND 171.458, LT		
171.581	171.620	RT											6	1															REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.588	171.768	LT											42	1															REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.752	171.839	RT											18	1															REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.939	172.017	RT	337.5	1									25	2											25	40		INSTALL MTS FLARED AT MM 171.939. INSTALL 337.5 LF OF S. B. GUARDRAIL AT MM 171.946.		
171.929	172.019	LT	387.5	1									25	2											25	48		INSTALL MTS FLARED AT MM 171.929. INSTALL 387.5 LF OF S. B. GUARDRAIL AT MM 171.936.		
172.041	172.044	LT	42.5			2																							INSTALL S.B. GUARDRAIL IN MEDIAN BETWEEN BRIDGE 110N AND 110S. INSTALL ANCHORS AT EACH END OF S.B. GUARDRAIL	
172.105	172.107	LT	42.5			2																							INSTALL S.B. GUARDRAIL IN MEDIAN BETWEEN BRIDGE 110N AND 110S. INSTALL ANCHORS AT EACH END OF S.B. GUARDRAIL	
172.105	172.236	RT	27.0			1							25	21	10												625	5.3	INSTALL ANCHOR AT MM 172.236. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 172.231. EXTEND TREATED TIMBER CURB FROM MM 172.215 TO EXISTING STRUCTURE AT MM 172.216.	
172.108	172.113	LT	25.0										25																CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1	
172.337	172.462	LT	414.5	1	1																				25	209		INSTALL MTS FLARED AT MM 172.337. INSTALL ANCHOR AT MM 172.462. INSTALL 387.5 LF OF S.B. GUARDRAIL AT MM 172.345 AND 25.0 LF AT MM 172.457.		
172.358	172.459	RT	314.5	1	1																				25	185		INSTALL MTS FLARED AT MM 172.358. INSTALL ANCHOR AT MM 172.459. INSTALL 325.0 LF OF S.B. GUARDRAIL AT MM 172.365 AND 25.0 LF AT MM 172.455. SEE REDUCED GUARDRAIL POST SPACING DETAIL *10N MISCELLANEOUS DETAIL SHEET.		
174.459	174.554	RT	302.0	1	1																				25	166		INSTALL MTS FLARED AT MM 174.459. INSTALL ANCHOR AT MM 174.554. INSTALL 275.0 LF OF S.B. GUARDRAIL AT MM 174.466 AND 25.0 LF AT MM 174.549.		
174.460	174.565	LT	339.5	1	1																				5.6	25	182	5.6	INSTALL MTS FLARED AT MM 174.460. INSTALL ANCHOR AT MM 174.565. INSTALL 312.5 LF OF S.B. GUARDRAIL AT MM 174.460 AND 25.0 LF AT MM 174.560. REPAIR SLOPE EROSION MM 174.549 TO MM 174.555	
174.896	175.300	RT	52.0	1	1																				25	2048		INSTALL MTS FLARED AT MM 174.896. INSTALL ANCHOR AT MM 175.300. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 174.903 AND 25.0 LF AT MM 175.296.		
175.490	175.719	RT	25.0	1																					25	1123		INSTALL MTS FLARED AT MM 175.490. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 175.497.		
175.654	175.749	LT	387.5	1																					25	50		INSTALL MTS FLARED AT MM 175.654. INSTALL 387.5 LF OF S. B. GUARDRAIL AT MM 175.661.		
175.751	175.756	LT	25.0																										CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1	
175.751	175.756	RT	25.0																										CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1	
175.766	175.780	RT																											INSTALL SNOW BARRIER ON BRIDGE 113N PER VAOT STANDARD PSF-3M	
SHEET SUBTOTALS:			3365.5	12	13	5	200	255	126	203	971	248	7	500	22.1	300	7690		53	20	51	22.1	751							

ITEM DETAIL SUMMARY SHEET #1	PROJECT NAME: DERBY	
	PROJECT NUMBER: IM 091-3(46)	
	FILE NAME: p06a200.dgn	PLOT DATE: 07-SEP-2011 10:22
	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: p06a200ids01.i	SHEET 9 OF 63	

ITEM DETAIL SUMMARY SHEET 2

LOCATION			MISCELLANEOUS													REMARKS				
BEGIN MILE MARKER	END MILE MARKER	POS.	616.47	618.10	618.30	619.17	620.75	649.31	653.20	676.10			676.12							
			BIT. CONC. GUTTERS & TRAFF. ISL. TON	PORT. CEM. CONC. SIDEWALK, 5 INCH SY	DET. WARNING SURFACE SF	YEILDING MARKER POSTS EACH	SNOW BARRIER, GALV. LF	GEOTEXTILE UNDER STONE FILL SY	TEMP. EROSION MATTING SY	DELINEATOR W/STEEL POST	REMOVAL OF EXIST. DELINEATOR	TYPE I	TYPE II	TYPE III	EACH		EACH	EACH	EACH	
NORTHBOUND																				
169.800	177.279					155							274							
			QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER																	
NORTHBOUND																				
169.971	170.075	LT							25											
			INSTALL MTS FLARED AT MM 169.971. INSTALL ANCHOR AT MM 170.075.																	
170.215	170.260	LT							25	2										
			INSTALL MTS FLARED AT MM 170.215. INSTALL ANCHOR AT MM 170.260. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 170.222 AND 25.0 LF AT MM 170.255.																	
170.334	170.893	LT									14	25	2							
			INSTALL MTS FLARED AT MM 170.334. INSTALL ANCHOR AT MM 170.893. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 170.341 AND 25.0 LF AT MM 170.888. INSTALL 279 LF OF NEW TREATED TIMBER CURB AT MM 170.748. REPAIR SLOPE EROSION AT MM 170.415, LT AND 170.719, LT																	
170.364	170.802	RT																		
			REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER																	
171.162	171.487	LT										91								
			REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER. REPAIR SLOPE EROSION AT MM 171.292, 171.310, 171.332, 171.359, 171.385, 171.392, 171.398, 171.404, 171.437, 171.440, 171.443, 171.452, AND 171.458, LT																	
171.581	171.620	RT																		
			REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER																	
171.588	171.768	LT																		
			REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER																	
171.752	171.839	RT																		
			REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER																	
171.939	172.017	RT							25	1										
			INSTALL MTS FLARED AT MM 171.939. INSTALL 337.5 LF OF S. B. GUARDRAIL AT MM 171.946.																	
171.929	172.019	LT							25	1										
			INSTALL MTS FLARED AT MM 171.929. INSTALL 387.5 LF OF S. B. GUARDRAIL AT MM 171.936.																	
172.041	172.044	LT																		
			INSTALL S.B. GUARDRAIL IN MEDIAN BETWEEN BRIDGE 110N AND 110S. INSTALL ANCHORS AT EACH END OF S.B. GUARDRAIL																	
172.105	172.107	LT																		
			INSTALL S.B. GUARDRAIL IN MEDIAN BETWEEN BRIDGE 110N AND 110S. INSTALL ANCHORS AT EACH END OF S.B. GUARDRAIL																	
172.105	172.236	RT											1							
			INSTALL ANCHOR AT MM 172.236. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 172.231. EXTEND TREATED TIMBER CURB FROM MM 172.215 TO EXISTING STRUCTURE AT MM 172.216.																	
172.108	172.113	LT																		
			CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1																	
172.337	172.462	LT								25	2									
			INSTALL MTS FLARED AT MM 172.337. INSTALL ANCHOR AT MM 172.462. INSTALL 387.5 LF OF S.B. GUARDRAIL AT MM 172.345 AND 25.0 LF AT MM 172.457.																	
172.358	172.459	RT											25	2						
			INSTALL MTS FLARED AT MM 172.358. INSTALL ANCHOR AT MM 172.459. INSTALL 325.0 LF OF S.B. GUARDRAIL AT MM 172.365 AND 25.0 LF AT MM 172.455. SEE REDUCED GUARDRAIL POST SPACING DETAIL *10N MISCELLANEOUS DETAIL SHEET.																	
174.459	174.554	RT											25	2						
			INSTALL MTS FLARED AT MM 174.459. INSTALL ANCHOR AT MM 174.554. INSTALL 275.0 LF OF S.B. GUARDRAIL AT MM 174.466 AND 25.0 LF AT MM 174.549.																	
174.460	174.565	LT										260	25	2						
			INSTALL MTS FLARED AT MM 174.460. INSTALL ANCHOR AT MM 174.565. INSTALL 312.5 LF OF S.B. GUARDRAIL AT MM 174.460 AND 25.0 LF AT MM 174.560. REPAIR SLOPE EROSION MM 174.549 TO MM 174.555																	
174.896	175.300	RT											25	2						
			INSTALL MTS FLARED AT MM 174.896. INSTALL ANCHOR AT MM 175.300. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 174.903 AND 25.0 LF AT MM 175.296.																	
175.490	175.719	RT											25	1						
			INSTALL MTS FLARED AT MM 175.490. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 175.497.																	
175.654	175.749	LT											25	1						
			INSTALL MTS FLARED AT MM 175.654. INSTALL 387.5 LF OF S. B. GUARDRAIL AT MM 175.661.																	
175.751	175.756	LT																		
			CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1																	
175.751	175.756	RT																		
			CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1																	
175.766	175.780	RT																		
			INSTALL SNOW BARRIER ON BRIDGE 113N PER VAOT STANDARD PSF-3M																	
SHEET SUBTOTALS:						155	76	365	300	293				293						

ITEM DETAIL SUMMARY SHEET #2	PROJECT NAME: DERBY	
	PROJECT NUMBER: IM 091-3(46)	
	FILE NAME: p06a200.dgn	PLOT DATE: 07-SEP-2011 10:22
	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: p06a200ids02.i	SHEET 10 OF 63	

ITEM DETAIL SUMMARY SHEET 3

LOCATION			GUARDRAIL											MISCELLANEOUS							604.412 604.415		REMARKS		
																					604.418	613.10			616.35
BEGIN MILE MARKER	END MILE MARKER	POS.	S.B. G.R. GALV. LF	MTS. FLARED EA	ANCHOR FOR S.B. G.R. EA	ANCHOR FOR CABLE RAIL EA	ALUM. APP. RAILING LF	REPLACE G.R. POST ASS. EA	REPLACE G.R. BEAM UNIT EA	ADJUST HT. OF GUARD RAIL LF	REMOV. & DISP. G.R. LF	S.P. (CABLE G.R. J-BOLT GALV.) EA	S.P. (CABLE G.R. SPLICE UNIT EA	RPLCMNT. OF G.R. CABLE LF	COMMON EXCAV. CY	EARTH BORROW CY	SHLDR BERM REMOV. LF	SUBBASE CRUSHED GRAVEL CY	AGG. SHLDRS., RAP TON	CHANGE ELEV. DI. CB, OR MH EA	REHAB DI. CB, OR MH. CL. I, II OR III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF		
NORTHBOUND																									
175.776	175.790	LT																						INSTALL SNOW BARRIER ON BRIDGE I13N PER VAOT STANDARD PSF-3M	
175.808	175.900	LT																						CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE MISCELLANEOUS DETAIL SHEET.	
176.110	176.174	RT	52.0	I	I			9	4		88					25	250							INSTALL MTS FLARED AT MM 176.110. INSTALL ANCHOR AT MM 176.174. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 176.117 AND 25.0 LF AT MM 176.169.	
176.431	176.897	LT	52.0	I	I			77	38		88					25	2374							INSTALL MTS FLARED AT MM 176.431. INSTALL ANCHOR AT MM 176.897. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 176.438 AND 25.0 LF AT MM 176.892.	
177.201	177.248	RT	52.0	I	I			6	3		88					25	163							INSTALL MTS FLARED AT MM 177.201. INSTALL ANCHOR AT MM 177.248. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 177.208 AND 25.0 LF AT MM 177.244.	
177.201	177.249	LT	52.0	I	I			6	3		88					25	166							INSTALL MTS FLARED AT MM 177.201. INSTALL ANCHOR AT MM 177.249. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 177.208 AND 25.0 LF AT MM 177.244.	
SOUTHBOUND																									
169.800	177.261					7												55	15	42				527	QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER
SOUTHBOUND																									
170.244	170.284	LT	52.0	I	I			5	2		88					25	125							INSTALL ANCHOR AT MM 170.244. INSTALL MTS FLARED AT MM 170.277. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 170.244 AND 25.0 LF AT MM 170.272.	
170.243	170.284	RT	52.0	I	I			5	3		88					25	128							INSTALL ANCHOR AT MM 170.243. INSTALL MTS FLARED AT MM 170.277. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 170.243 AND 25.0 LF AT MM 170.272.	
170.410	170.675	LT										63	2											REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
170.709	171.010	LT										72	2											REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.109	171.506	LT										95	2											REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.241	171.346	RT										23	1											REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.615	171.682	LT										13	1		I,I							I,I		REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER. REPAIR SLOPE EROSION AT MM 171.631, LT	
171.772	171.842	LT										14	1											REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
171.999	172.062	LT	27.0		I			25	10	5	25												280	INSTALL ANCHOR AT MM 171.999. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 171.999.	
172.057	172.062	RT	25.0					25																CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1	
172.104	172.297	LT	25.0	I				25	30	15	63					25	931							INSTALL MTS FLARED AT MM 172.290. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 172.285.	
172.112	172.205	RT	387.5	I				25	1	1	63					25	39							INSTALL MTS FLARED AT MM 172.198. INSTALL 387.5 LF OF S.B. GUARDRAIL AT MM 172.124.	
172.228	172.523	RT	400.0	I				37	18		63					25	1122							INSTALL MTS FLARED AT MM 172.516. INSTALL 400.0 LF OF S.B. GUARDRAIL AT MM 172.440.	
172.399	172.500	LT	364.5	I	I			5	3		88				7.0	25	134					7.0		INSTALL ANCHOR AT MM 172.399. INSTALL MTS FLARED AT MM 172.493. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 172.399 AND 337.5 LF AT MM 172.429. REPAIR SLOPE EROSION AT MM 172.412, LT 172.417, LT AND 172.422 TO 172.427, LT.	
172.585	172.776	LT										44	1											REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER	
172.979	173.252	LT	52.0	I	I			44	22		88					25	1354							INSTALL ANCHOR AT MM 172.979. INSTALL MTS FLARED AT MM 173.245. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 172.979 AND 25.0 LF AT MM 173.240.	
174.546	174.652	RT	339.5	I	I			7	4		88				7.2	25	190					7.2		INSTALL ANCHOR AT MM 174.546. INSTALL MTS FLARED AT MM 174.645. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 174.546 AND 312.5 LF AT MM 174.586. REPAIR SLOPE EROSION AT MM 174.557 TO 174.564, RT.	
174.557	174.654	LT	289.5	I	I			7	3		88				6.7	25	186					6.7		INSTALL ANCHOR AT MM 174.557. INSTALL MTS FLARED AT MM 174.647. INSTALL 25.0 LF OF S.B. GUARDRAIL AT MM 174.557 AND 262.5 LF AT MM 174.597. REPAIR SLOPE EROSION AT MM 174.568 TO 174.575, LT.	
SHEET SUBTOTALS:			2222	13	11	7	100	249	124		1094	324	10		22	325	7442		55	15	42	22	527		

ITEM DETAIL SUMMARY SHEET #3	PROJECT NAME: DERBY	
	PROJECT NUMBER: IM 091-3(46)	
	FILE NAME: p06a200.dgn	PLOT DATE: 07-SEP-2011 10:22
	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: p06a200ids03.i	SHEET 11 OF 63	

ITEM DETAIL SUMMARY SHEET 5

LOCATION			GUARDRAIL											MISCELLANEOUS							REMARKS					
														604.412	604.415	613.10	616.35									
BEGIN MILE MARKER	END MILE MARKER	POS.	621.20	621.50	621.60	621.65	621.74	621.76	621.77	621.79	621.80	900.620	900.620	900.640	203.15	203.30	203.40	301.26	402.13	604.40		604.418	613.10	616.35		
			S.B. G.R. GALV. LF	MTS. FLARED EA	ANCHOR FOR S.B. G.R. EA	ANCHOR FOR CABLE RAIL EA	ALUM. APP. RAILING LF	REPLACE G.R. POST ASS. EA	REPLACE G.R. BEAM UNIT EA	ADJUST HT. OF GUARD RAIL LF	REMOV. & DISP. G.R. LF	S.P. (CABLE G.R. J-BOLT GALV.) EA	S.P. (CABLE G.R. SPLICE UNIT EA	RPLCMNT. OF G.R. CABLE LF	COMMON EXCAV. CY	EARTH BORROW CY	SHLDR BERM REMOV. LF	SUBBASE CRUSHED GRAVEL CY	AGG. SHLDRS., RAP TON	CHANGE ELEV. DI. CB, OR MH CL. I, II OR III EA		REHAB DI. CB, OR MH. CL. I, II OR III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF		
SOUTHBOUND																										
174.986	175.048	LT	52.0	I	I				8	4						25	239							INSTALL ANCHOR AT MM 174.986. INSTALL MTS FLARED AT MM 175.041. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 174.986 AND 25.0 LF AT MM 175.036		
175.182	175.378	LT	52.0	I	I				31	16						25	946							INSTALL ANCHOR AT MM 175.182. INSTALL MTS FLARED AT MM 175.371. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 175.182 AND 25.0 LF AT MM 175.366.		
175.495	175.788	LT	27.0		I			25	49	24					I,II		1495					I,II		INSTALL ANCHOR AT MM 175.495. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 175.495. REPAIR SLOPE EROSION AT MM 175.494, LT.		
175.783	175.788	RT	25.0				25																	CONNECT S.B. GUARDRAIL TO APPROACH RAILING PER ALUMINUM APPROACH RAILING DETAIL SHEET 1		
175.790	175.804	LT																						INSTALL SNOW BARRIER ON BRIDGE #135 PER VAOT STANDARD PSF-3M		
175.796	175.811	RT																						INSTALL SNOW BARRIER ON BRIDGE #135 PER VAOT STANDARD PSF-3M		
175.864	175.945	RT	387.5	I			25	I	I							25	40							INSTALL MTS FLARED AT MM 175.938. INSTALL 387.5 LF OF S. B. GUARDRAIL AT MM 175.864.		
175.858	175.936	LT	312.5	I			25	I	I							25	41							INSTALL MTS FLARED AT MM 175.929. INSTALL 312.5 LF OF S. B. GUARDRAIL AT MM 175.870.		
176.100	176.152	LT	52.0	I	I				7	4						25	190							INSTALL ANCHOR AT MM 176.100. INSTALL MTS FLARED AT MM 176.145. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 176.100 AND 25.0 LF AT MM 176.140.		
176.108	176.160	RT	52.0	I	I				7	4						25	190							INSTALL ANCHOR AT MM 176.108. INSTALL MTS FLARED AT MM 176.153. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 176.108 AND 25.0 LF AT MM 176.148.		
176.520	176.908	LT	52.0	I	I				63	32						25	1960							INSTALL ANCHOR AT MM 176.520. INSTALL MTS FLARED AT MM 176.901. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 176.520 AND 25.0 LF AT MM 176.896. SEE REDUCED GUARDRAIL POST SPACING DETAIL #2 ON MISCELLANEOUS DETAIL SHEET.		
177.245	177.263	RT	27.0		I				3	2														INSTALL ANCHOR AT MM 177.245. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 177.245.		
177.253	177.268	LT	27.0		I				2	I						25	56							INSTALL ANCHOR AT MM 177.242. INSTALL MTS FLARED AT MM 177.257. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 177.242 AND 25.0 LF AT MM 177.252.		
EXIT 27 RAMP A																										
0.000	0.210																				I	I				
0.008		RT																							CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET	
0.038		RT																							CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET	
0.085		RT																							CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET	
0.134		RT																							CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET	
EXIT 27 RAMP B																										
0.018	0.281																		4			I				
0.164		LT																							CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET	
0.225	0.266	RT	52.0	I	I				5	3						25	131							INSTALL MTS FLARED AT MM 0.225. INSTALL ANCHOR AT MM 0.266. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 0.232 AND 25.0 LF AT MM 0.261.		
EXIT 27 RAMP C																										
0.000	0.193																									
0.027	0.068	RT	52.0	I	I				5	3						25	129							INSTALL MTS FLARED AT MM 0.027. INSTALL ANCHOR AT MM 0.068. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 0.034 AND 25.0 LF AT MM 0.063.		
0.030	0.070	LT	52.0	I	I				5	3						25	126							INSTALL MTS FLARED AT MM 0.030. INSTALL ANCHOR AT MM 0.070. INSTALL 25.0 LF OF S. B. GUARD RAIL AT MM 0.037 AND 25.0 LF AT MM 0.066.		
0.086	0.179	RT	25.0	I					14	7						25	428							INSTALL MTS FLARED AT MM 0.086. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 0.093.		
0.086	0.166	LT	25.0	I					12	6						25	359							INSTALL MTS FLARED AT MM 0.086. INSTALL 25.0 LF OF S. B. GUARDRAIL AT MM 0.093.		
SHEET SUBTOTALS:			1272	12	11		100	213	111		1031			I,II	325	6398		17	I		2	I,II				

ITEM DETAIL SUMMARY SHEET #5	PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:22
	PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
	FILE NAME: p06a200.dgn	CHECKED BY: JLL
	DESIGNED BY: STANTEC	SHEET 13 OF 63
IPARM FILE: p06a200ids05.i		

ITEM DETAIL SUMMARY SHEET 7

LOCATION			GUARDRAIL											MISCELLANEOUS								604.412 604.415		REMARKS		
																						613.10	616.35			
BEGIN MILE MARKER	END MILE MARKER	POS.	S.B. G.R. GALV. LF	MTS. FLARED EA	ANCHOR FOR S.B. G.R. EA	ANCHOR FOR CABLE RAIL EA	ALUM. APP. RAILING LF	REPLACE G.R. POST ASS. EA	REPLACE G.R. BEAM UNIT EA	ADJUST HT. OF GUARD RAIL LF	REMOV. & DISP. G.R. LF	S.P. (CABLE G.R. J-BOLT GALV.) EA	S.P. (CABLE G.R. SPLICE UNIT EA	RPLCMNT. OF G.R. CABLE LF	COMMON EXCAV. CY	EARTH BORROW CY	SHLDR BERM REMOV. LF	SUBBASE CRUSHED GRAVEL CY	AGG. SHLDRS., RAP TON	CHANGE ELEV. DI. CB, OR MH EA	REHAB DI. CB, OR MH, CL. I, II OR III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF			
SOUTHBOUND EXIT 27 RAMP D																										
0.000	0.219	RT						38	19						1.1		1157						1.1		RETAIN GUARDRAIL FROM MM 0.000 TO MM 0.219. REPAIR SLOPE EROSION AT MM 0.097, RT	
0.018	0.211																									
0.055	0.143	LT				I						18	I													REPAIR CABLE GUARDRAIL AS DIRECTED BY ENGINEER
EXIT 28 RAMP A																										
0.012	0.199																				I	2				
EXIT 28 RAMP B																										
0.000	0.276																					I				
0.263	0.267	LT																								
EXIT 28 RAMP C																										
0.009	0.208																				2	3				
0.117	0.122	LT																								CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET
0.149		RT																								CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET
0.208		RT																								CONSTRUCT BITUMINOUS CONCRETE GUTTER - SEE THE MISCELLANEOUS DETAIL SHEET
EXIT 28 RAMP D																										
0.000	0.170																					I				
0.103	0.186	RT						15	7								437									RETAIN GUARDRAIL FROM MM 0.103 TO MM 0.186.
EXIT 29 RAMP A																										
0.000	0.232																					I				
EXIT 29 RAMP B																										
0.012	0.123																									
EXIT 29 RAMP C																										
0.000	0.032																									
EXIT 29 RAMP D																										
0.000	0.028																									
WELCOME CENTER																										
0.000	0.360																									
7+56	17+31	LT						32	16								975									RETAIN GUARDRAIL FROM STA. 7+56 TO STA. 17+31, LT.
9+46		RT													3.3			1.8								CONSTRUCT SIDEWALK RAMP, TYPE 6
10+04		RT													3.5			1.9								CONSTRUCT SIDEWALK RAMP, TYPE 6
SHEET 1 SUBTOTALS:			3365.5	12	13	5	200	255	126	203	971	248	7	500	22.1	300	7690		53	20	51	22.1	751			
SHEET 3 SUBTOTALS:			2222	13	11	7	100	249	124			1094	324	10	22	325	7442		55	15	42	22	527			
SHEET 5 SUBTOTALS:			1272	12	11		100	213	111			1031			1.1	325	6398		17	1	2	1.1				
SHEET 7 SUBTOTALS:						I		85	42			18	I		7.9		2569	3.7		3	8	1.1				
SUBTOTALS:			6859.5	37	35	13	400	802	403	203	3096	590	18	500	53.1	950	24099	3.7	125	39	103	46.3	1278			
ROUNDING:			40.5	-	-	-	-	-	-	-	-	-	-	-	1.9	10	101	0.3	5	-	-	-	22			
TOTALS:			6900	37	35	13	400	802	403	203	3096	590	18	500	55	960	24200	4	130	39	103	46.3*	1300			

ITEM DETAIL SUMMARY SHEET #7

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

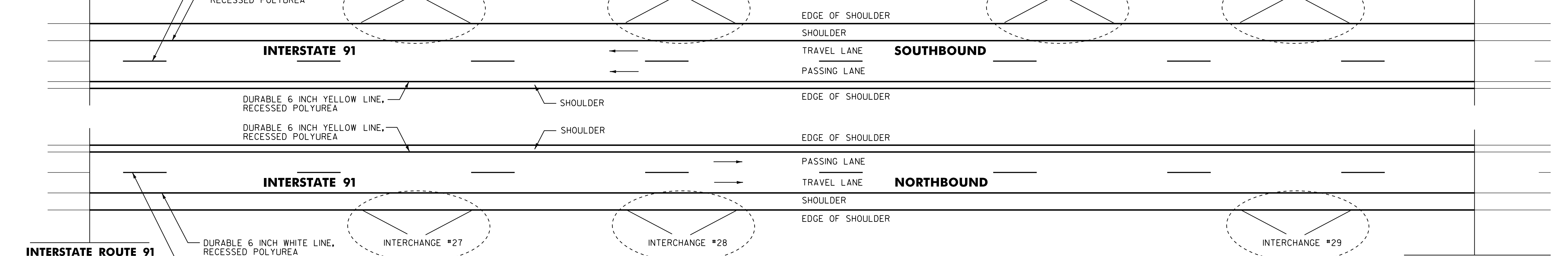
FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
IPARM FILE: p06a200ids07.i

PLOT DATE: 07-SEP-2011 10:22
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 15 OF 63

* THESE TOTALS ARE CARRIED FORWARD TO THE DETAILED SUMMARY OF QUANTITIES ON THE QUANTITY SHEETS

**INTERSTATE ROUTE 91
SOUTHBOUND
MM 169.800
BEGIN PROJECT IM 091-3(46)**

**INTERSTATE ROUTE 91
SOUTHBOUND
MM 177.261
END PROJECT IM 091-3(46)**



**INTERSTATE ROUTE 91
NORTHBOUND
MM 169.800
BEGIN PROJECT IM 091-3(46)**

**INTERSTATE ROUTE 91
NORTHBOUND
MM 177.279
END PROJECT IM 091-3(46)**

213.10 MILLED RUMBLE STRIPS

NORTHBOUND:
MM 169.800 - MM 177.279 LT (26733 LF)
MM 169.800 - MM 177.279 RT (35585 LF)

SOUTHBOUND:
MM 169.800 - MM 177.261 LT (32606 LF)
MM 169.800 - MM 177.261 RT (33727 LF)

604.412, 604.415, OR 604.418 REHAB. DROP INLETS,
CATCH BASINS OR MANHOLES (SEE NOTE 2)

NORTHBOUND:	SOUTHBOUND:
MM 169.792 RT	MM 172.282 LT
MM 169.886 RT	MM 172.282 RT
MM 169.886 LT	MM 172.348 LT
MM 169.980 RT	MM 172.348 RT
MM 170.161 RT	MM 172.384 RT
MM 170.245 RT	MM 172.385 LT
MM 170.406 RT	MM 172.628 RT
MM 170.416 LT	MM 172.770 RT
MM 170.464 LT	MM 173.077 LT
MM 170.510 RT	MM 173.194 RT
MM 170.512 LT	MM 173.196 LT
MM 170.557 LT	MM 173.363 LT
MM 170.605 RT	MM 173.849 RT
MM 170.606 LT	MM 174.332 LT
MM 170.652 RT	MM 174.542 LT
MM 170.653 LT	MM 174.917 LT
MM 170.701 RT	MM 175.007 LT
MM 170.702 LT	MM 175.267 LT
MM 170.746 RT	MM 175.355 RT
MM 170.851 RT	MM 175.442 LT
MM 171.114 RT	MM 175.442 RT
MM 171.168 RT	MM 175.808 LT
MM 171.317 LT	MM 175.813 RT
MM 171.365 LT	MM 176.201 RT
MM 171.412 LT	MM 176.288 RT
MM 171.459 LT	MM 176.354 RT
MM 171.800 LT	MM 176.448 RT
MM 172.035 LT	MM 176.635 RT
MM 172.120 LT	MM 176.716 RT
MM 172.120 RT	MM 176.787 LT
MM 172.157 RT	MM 176.852 LT
MM 172.158 LT	MM 177.084 LT
MM 172.216 LT	MM 177.084 RT
MM 172.216 RT	MM 177.208 LT
MM 172.232 RT	MM 177.292 RT
MM 172.252 LT	

NO WORK WAS DONE TO
ANY DITCH DROP INLETS

ALL MAINLINE CURB DROP INLETS
ALONG WITH CURB BOARD WERE
ELIMINATED WITH THE EXCEPTION
OF THREE DROP INLETS WITH
SHORT SECTIONS OF CURB BOARD.

THREE SAVED & REHABED CURB
DROP INLETS W/ SHORT SECTIONS
OF CURB BOARD

NB 172.120 RT OFF BR I10
SB 172.115 LT OFF BR I10
SB 175.782 LT OFF BR I13

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS

SEE ITEM DETAIL SUMMARY SHEETS
620.75 SNOW BARRIER, GALVANIZED
SEE ITEM DETAIL SUMMARY SHEETS

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
SEE ITEM DETAIL SUMMARY SHEETS
621.50 MANUFACTURED TERMINAL SECTION, FLARED
SEE ITEM DETAIL SUMMARY SHEETS

621.60 ANCHOR FOR STEEL BEAM RAIL

SEE ITEM DETAIL SUMMARY SHEETS

621.65 ANCHOR FOR CABLE RAIL

SEE ITEM DETAIL SUMMARY SHEETS

621.74 ALUMINUM APPROACH RAILING

SEE ITEM DETAIL SUMMARY SHEETS

621.76 REPLACE GUARDRAIL POST ASSEMBLY

SEE ITEM DETAIL SUMMARY SHEETS

621.77 REPLACE GUARDRAIL BEAM UNIT

SEE ITEM DETAIL SUMMARY SHEETS

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

SEE ITEM DETAIL SUMMARY SHEETS

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA

NORTHBOUND:
MM 169.800 - MM 177.279 CL (DASHED)
MM 169.800 - MM 177.279 RT (SOLID)

SOUTHBOUND:
MM 169.800 - MM 177.261 CL (DASHED)
MM 169.800 - MM 177.261 LT (SOLID)

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

NORTHBOUND:
MM 169.800 - MM 177.279 LT (SOLID)

SOUTHBOUND:
MM 169.800 - MM 177.261 LT (SOLID)

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

NORTHBOUND:
MM 169.800 - MM 177.279 CL (DASHED)
MM 169.800 - MM 177.279 RT (SOLID)

SOUTHBOUND:
MM 169.800 - MM 177.261 CL (DASHED)
MM 169.800 - MM 177.261 LT (SOLID)

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

NORTHBOUND:
MM 169.800 - MM 177.279 LT (SOLID)

SOUTHBOUND:
MM 169.800 - MM 177.261 LT (SOLID)

675.50 REMOVING SIGNS

SEE TRAFFIC SIGN REMOVAL SHEETS
FOR SIGN REMOVALS ALONG I-91

676.10 DELINEATOR WITH STEEL POST

SEE ITEM DETAIL SUMMARY SHEETS AND
REFER TO STANDARDS E-197, E-198 AND
E-199 FOR PLACEMENT GUIDELINES

676.12 REMOVAL OF EXISTING DELINEATOR

SEE ITEM DETAIL SUMMARY SHEETS

900.620 SPECIAL PROVISION (CABLE GUARDRAIL J-BOLT, GALVANIZED)

SEE ITEM DETAIL SUMMARY SHEETS

900.620 SPECIAL PROVISION (CABLE GUARDRAIL SPLICE UNIT)

SEE ITEM DETAIL SUMMARY SHEETS

900.640 SPECIAL PROVISION (REPLACEMENT OF GUARDRAIL CABLE)

SEE ITEM DETAIL SUMMARY SHEETS

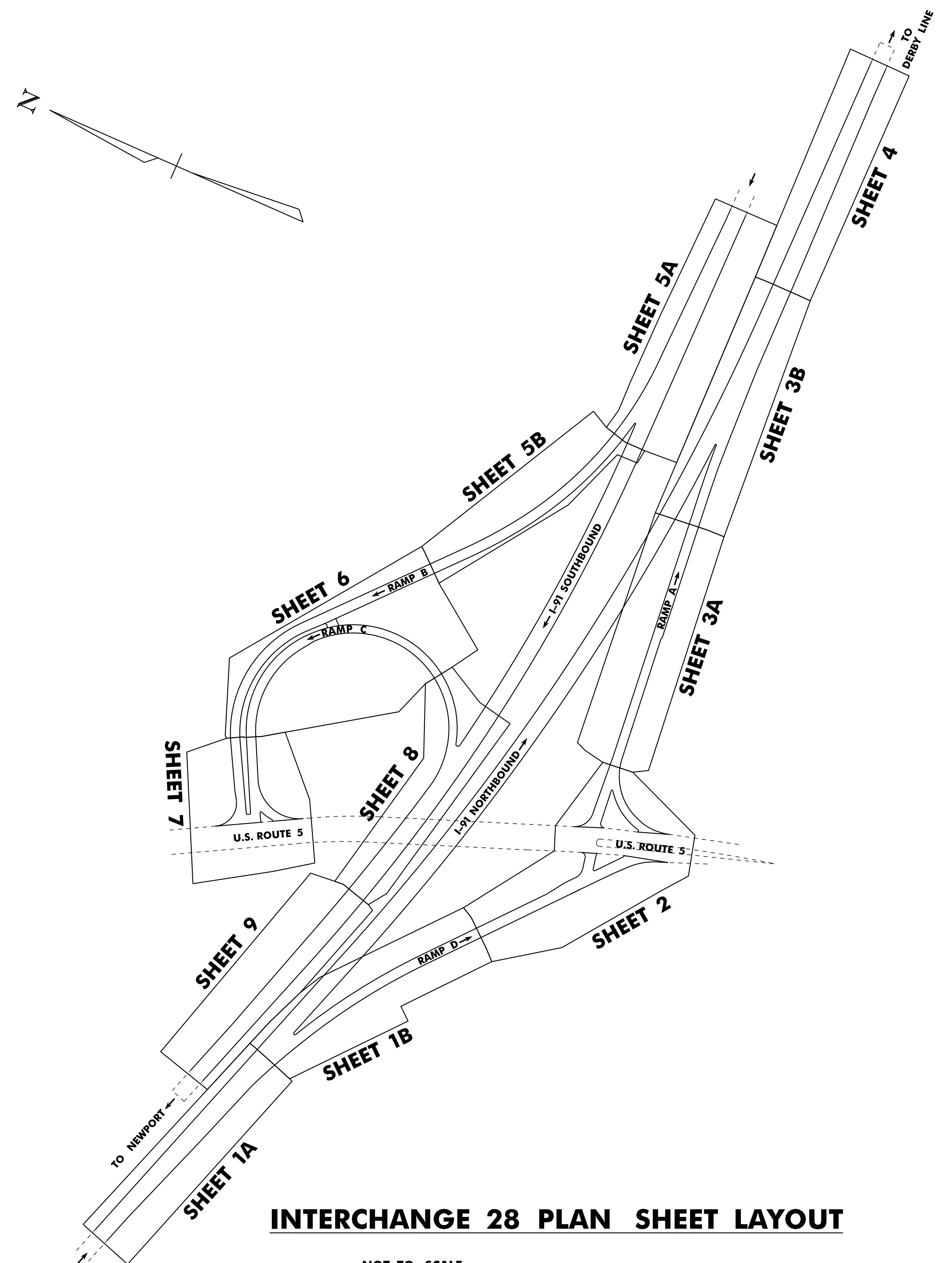
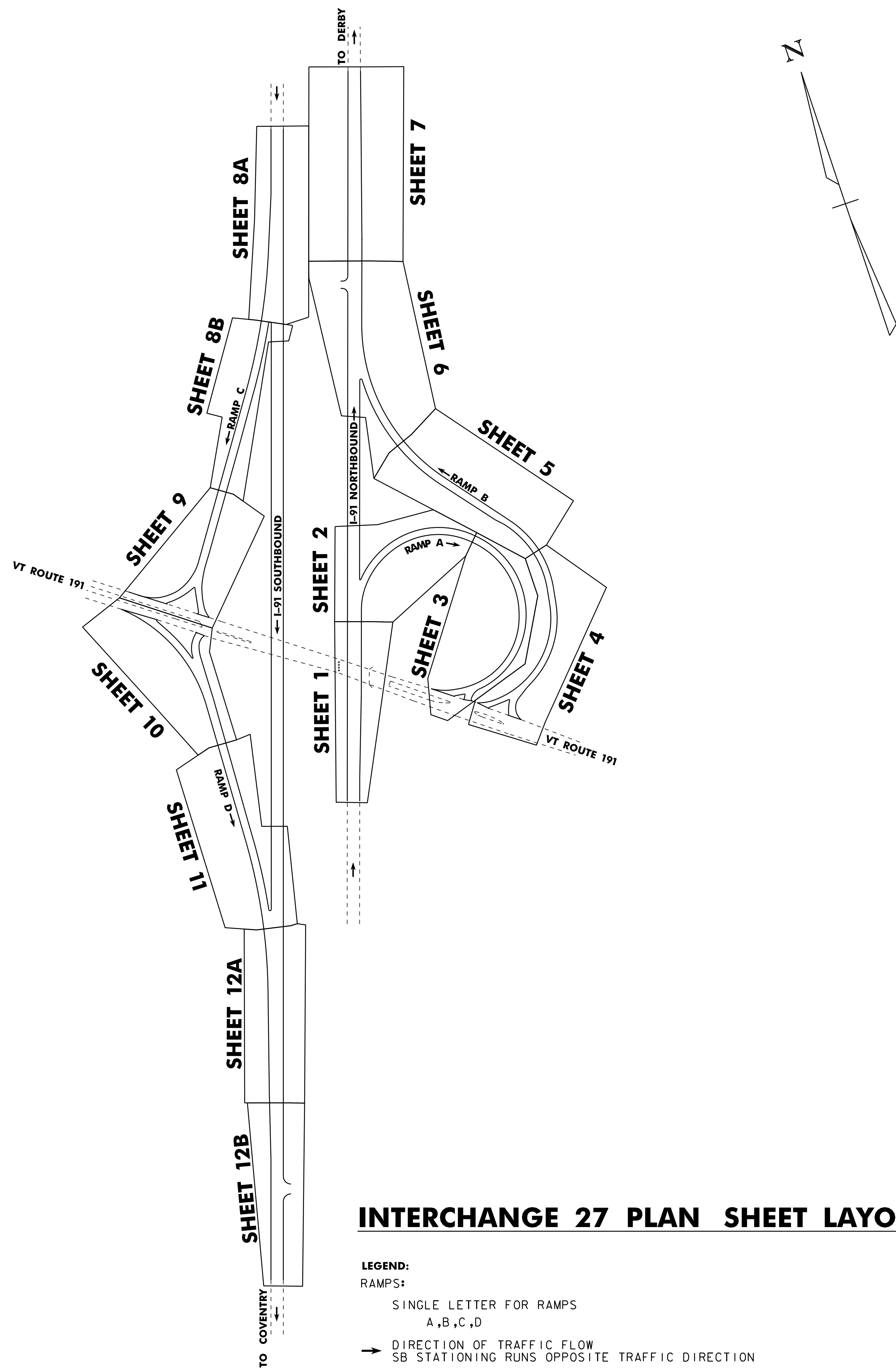
NOTES:

1. THE CONTRACTOR SHALL INSTALL MILLED RUMBLE STRIPS WITHIN THE PROJECT LIMITS AS SHOWN ON THE MILLED RUMBLE STRIPS DETAIL SHEETS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

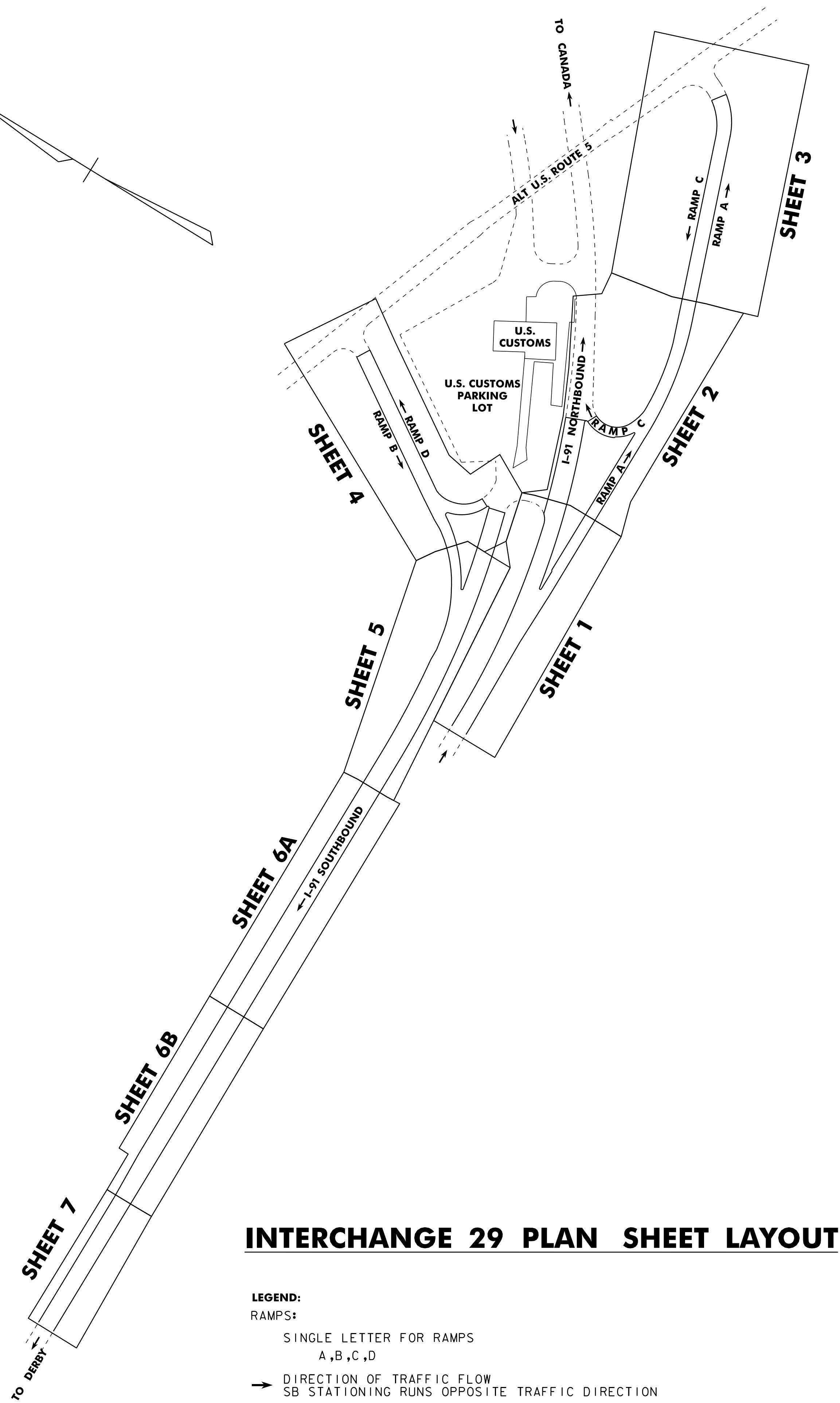
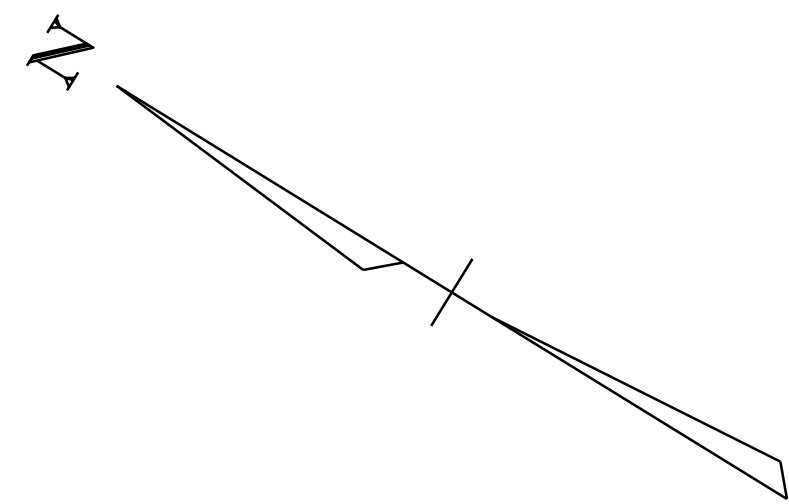
PROJECT LAYOUT SHEET	PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2010:23
	PROJECT NUMBER: IM 091-3 (1)	DRAWN BY: STANTEC
	FILE NAME: p06a200.dgn	CHECKED BY: JLL
	PROJECT LEADER: JLL	SHEET 18 OF 63
	DESIGNED BY: STANTEC	
	IPARM FILE: p06a200pls.i	





NOT TO SCALE

INTERCHANGE PLAN LAYOUT SHEET #1	PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:23
	PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
	FILE NAME: p06a200.dgn	CHECKED BY: JLL
	DESIGNED BY: STANTEC	SHEET 19 OF 63
IPARM FILE: p06a200psk01.i		



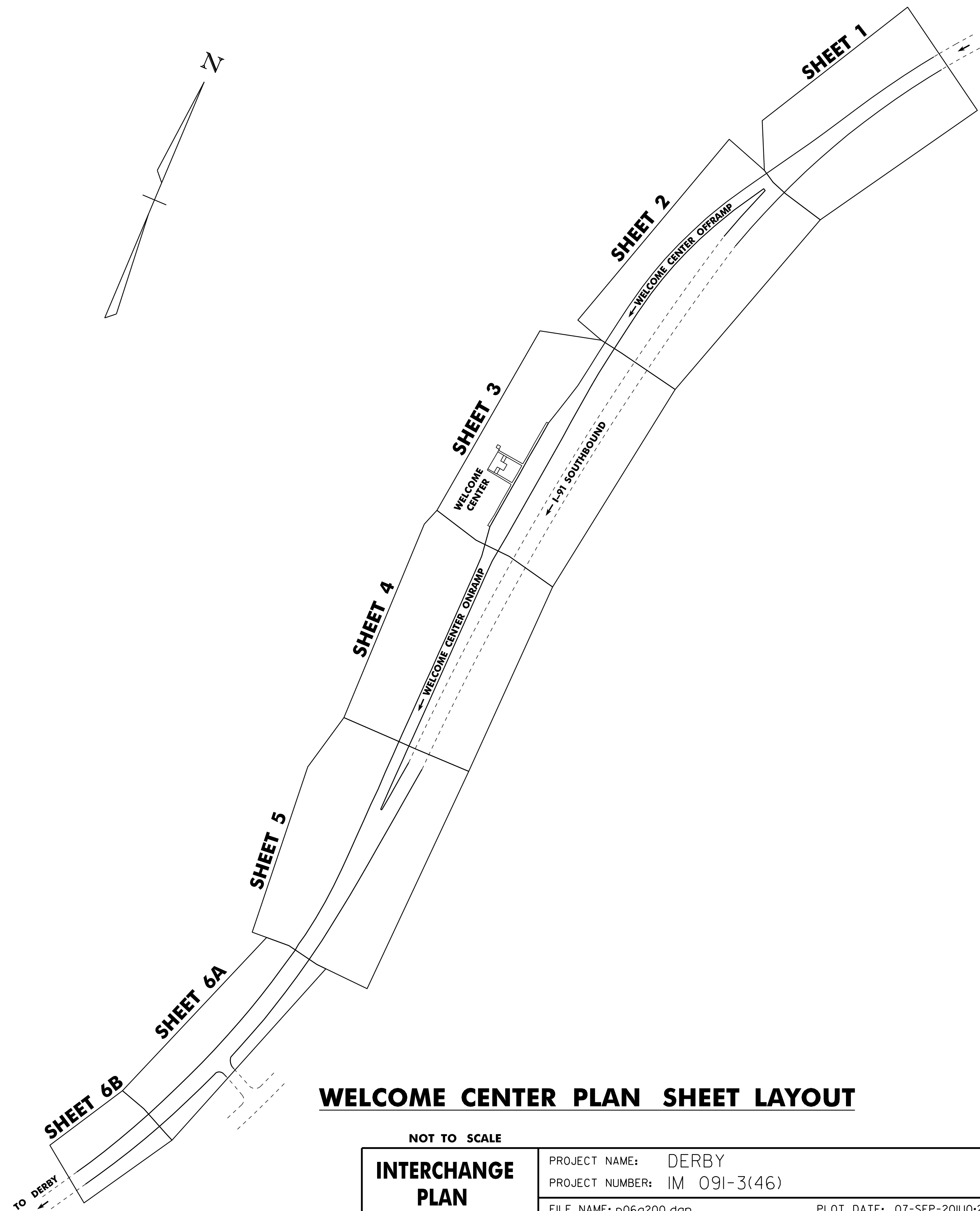
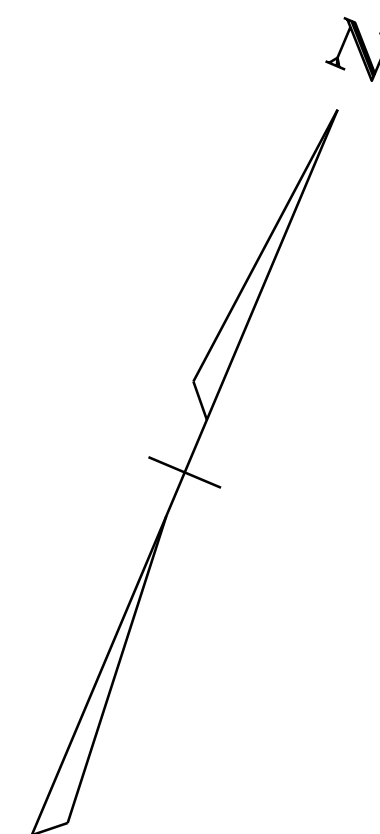
INTERCHANGE 29 PLAN SHEET LAYOUT

LEGEND:

RAMPS:

SINGLE LETTER FOR RAMPS
A, B, C, D

→ DIRECTION OF TRAFFIC FLOW
SB STATIONING RUNS OPPOSITE TRAFFIC DIRECTION



WELCOME CENTER PLAN SHEET LAYOUT

NOT TO SCALE

**INTERCHANGE
PLAN
LAYOUT
SHEET #2**

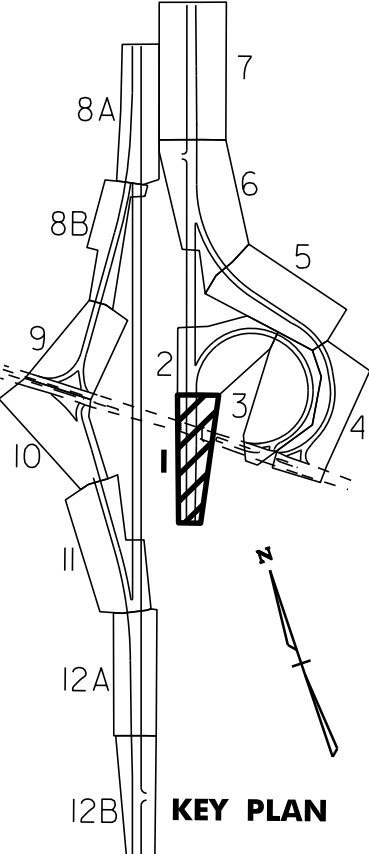
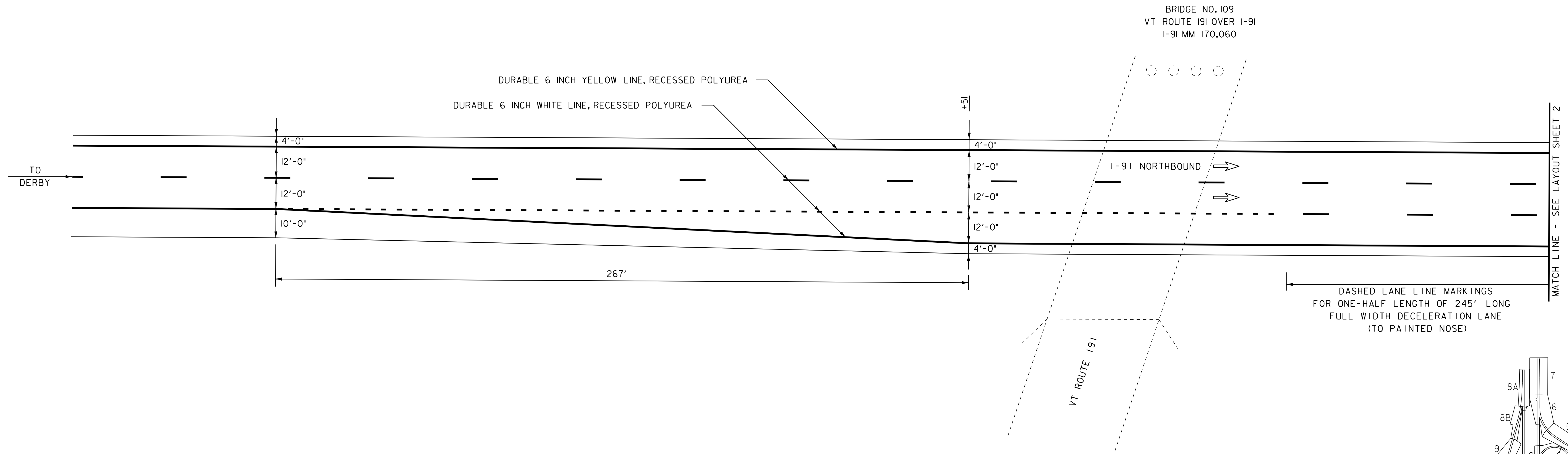


PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200psk02.i

PLOT DATE: 07-SEP-2011 10:23
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 20 OF 63

NOTE - PLACED DOTTED LINES ACROSS ALL RAMPS
(ON AND OFF) AS PER
MUTCD 3A.06
(3 FOOT LINE SEGMENTS AND 9 FOOT GAPS)



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇒



**INTERCHANGE
27 LAYOUT
SHEET #1**

NOT TO SCALE

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200i01

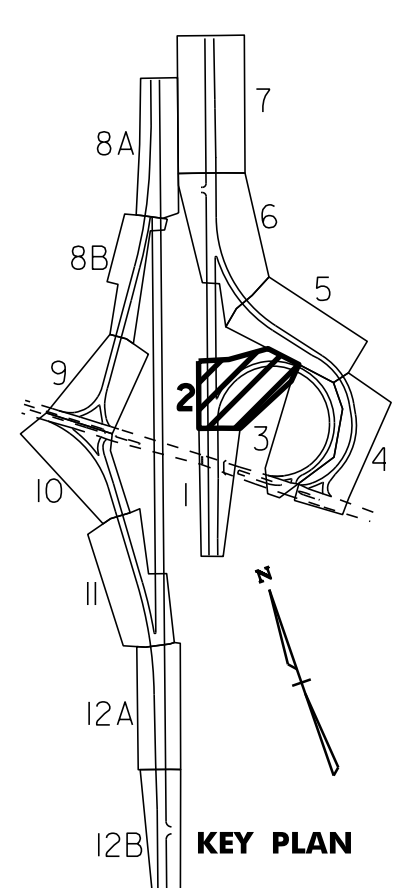
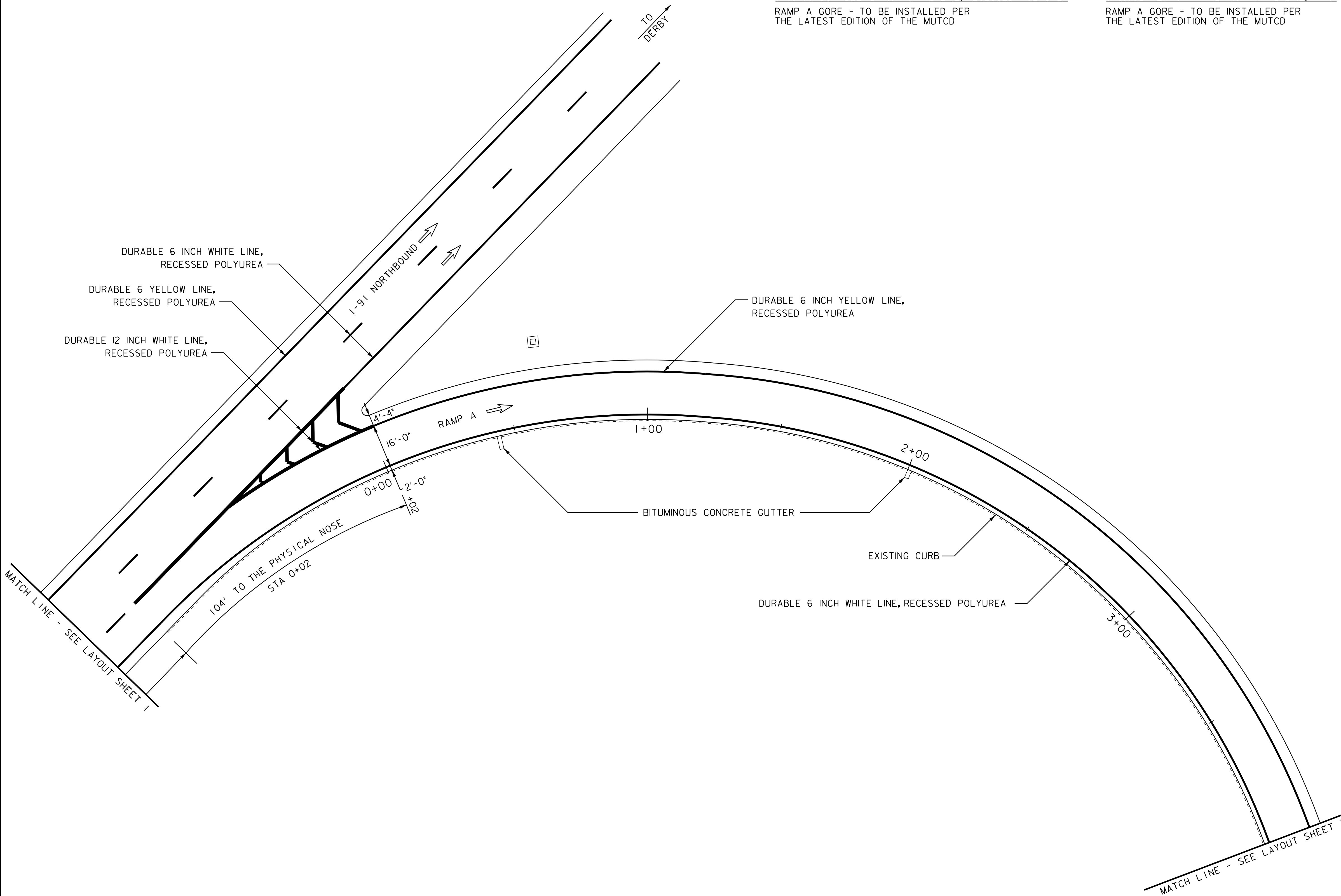
PLOT DATE: 07-SEP-2011 10:23
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 21 OF 63

604.412, 604.415 OR 604.418 REHAB. DIS, CBS OR MHS, CLASS I, II OR III
 STA. 0+62, LT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLAND
 STA. 0+44, RT
 STA. 2+01, RT
 (SEE MISCELLANEOUS DETAIL SHEET)

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 0+00 TO 4+00, SOLID C
 646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 0+00 TO 4+00, SOLID LT
 646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP A GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 0+00 TO 4+00, SOLID C
 646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 0+00 TO 4+00, SOLID LT
 646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP A GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW →



**INTERCHANGE
 27 LAYOUT
 SHEET #2**

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:23
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 22 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200i02	

NOT TO SCALE

604.412, 604.415 OR 604.418 REHAB. Dis, CBs OR MHS, CLASS I, II OR III
 STA. 5+47, LT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLAND
 STA. 4+52, RT
 STA. 7+07, RT
 (SEE MISCELLANEOUS DETAIL SHEET)

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 4+00 TO 10+97, SOLID C
 STA. 10+04 TO 10+11, SOLID LT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 4+00 TO 9+94, SOLID LT
 STA. 10+07 TO 10+37, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 STA. 10+01 TO 10+07, SOLID LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
 STA. 10+00, LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 4+13, LT - "STOP"
 STA. 4+53, LT - "AHEAD"
 STA. 7+79, LT - ARROW
 STA. 9+95, LT - "STOP"
 STA. 10+34, LT - YIELD LINE

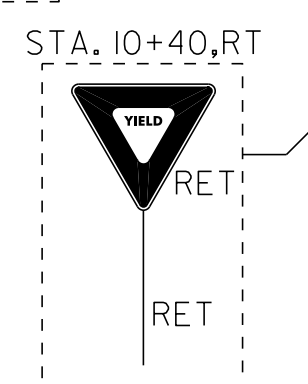
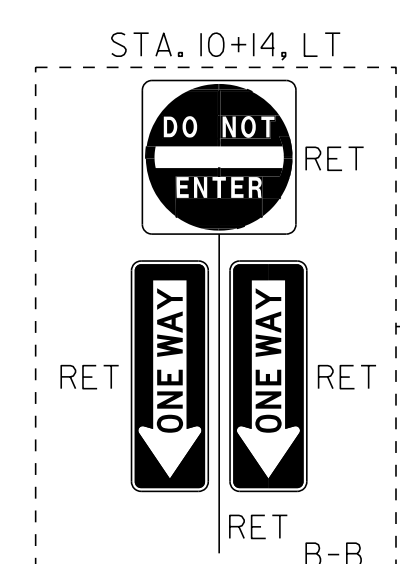
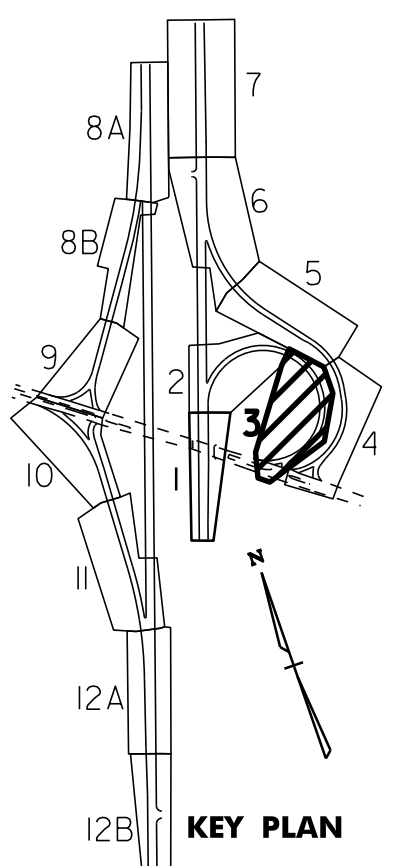
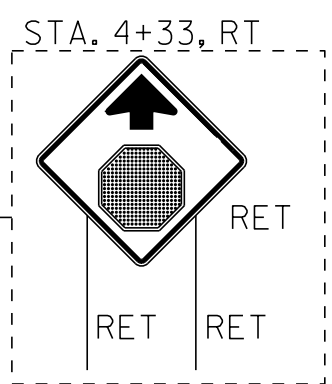
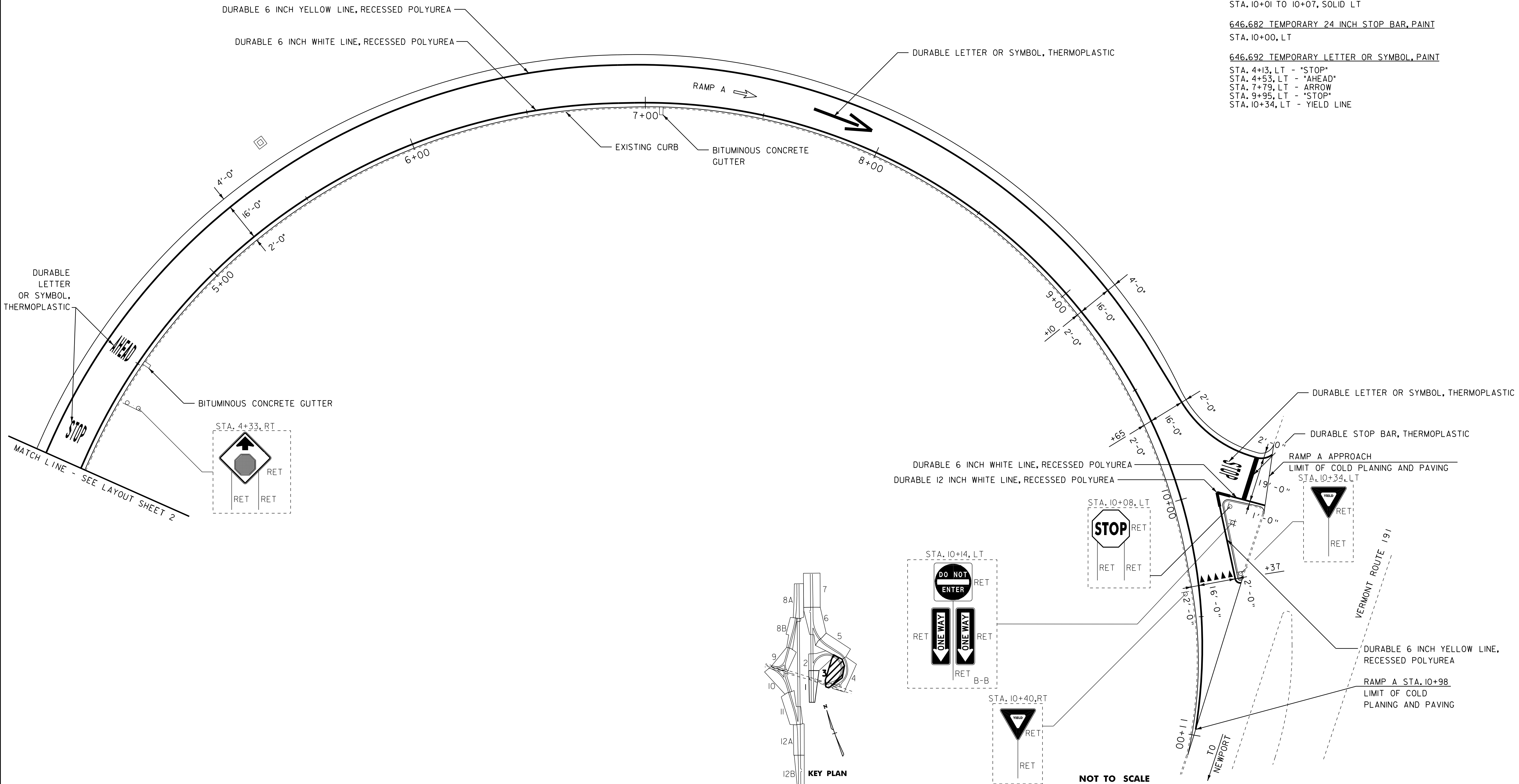
646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 4+00 TO 10+97, SOLID C
 STA. 10+04 TO 10+11, SOLID LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 4+00 TO 9+94, SOLID LT
 STA. 10+07 TO 10+37, SOLID LT

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 STA. 10+01 TO 10+07, SOLID LT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 10+00, LT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 4+13, LT - "STOP"
 STA. 4+53, LT - "AHEAD"
 STA. 7+79, LT - ARROW
 STA. 9+95, LT - "STOP"
 STA. 10+34, LT - YIELD LINE



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW →



INTERCHANGE 27 LAYOUT SHEET #3

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:24
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 23 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200i03	

604.412, 604.415 OR 604.418 REHAB. DIS, CBS OR MHS, CLASS I, II OR III
 STA. 6+43, RT

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA

STA. 0+98 TO 1+68, SOLID C
 STA. 1+69 TO 2+50, SOLID RT
 STA. 2+50 TO 7+00, SOLID C

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

STA. 0+66 TO 7+00, SOLID LT
 STA. 1+48 TO 1+71, SOLID RT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA

STA. 1+68 TO 1+76, SOLID C

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC

STA. 1+83, RT - YIELD LINE

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

STA. 0+98 TO 1+68, SOLID C
 STA. 1+69 TO 2+50, SOLID RT
 STA. 2+50 TO 7+00, SOLID C

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

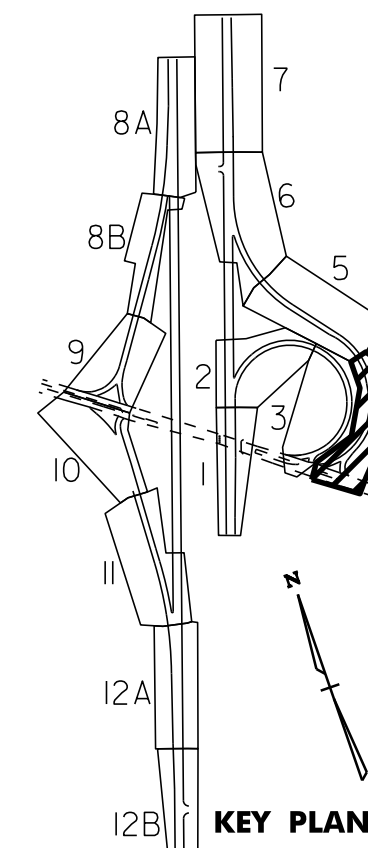
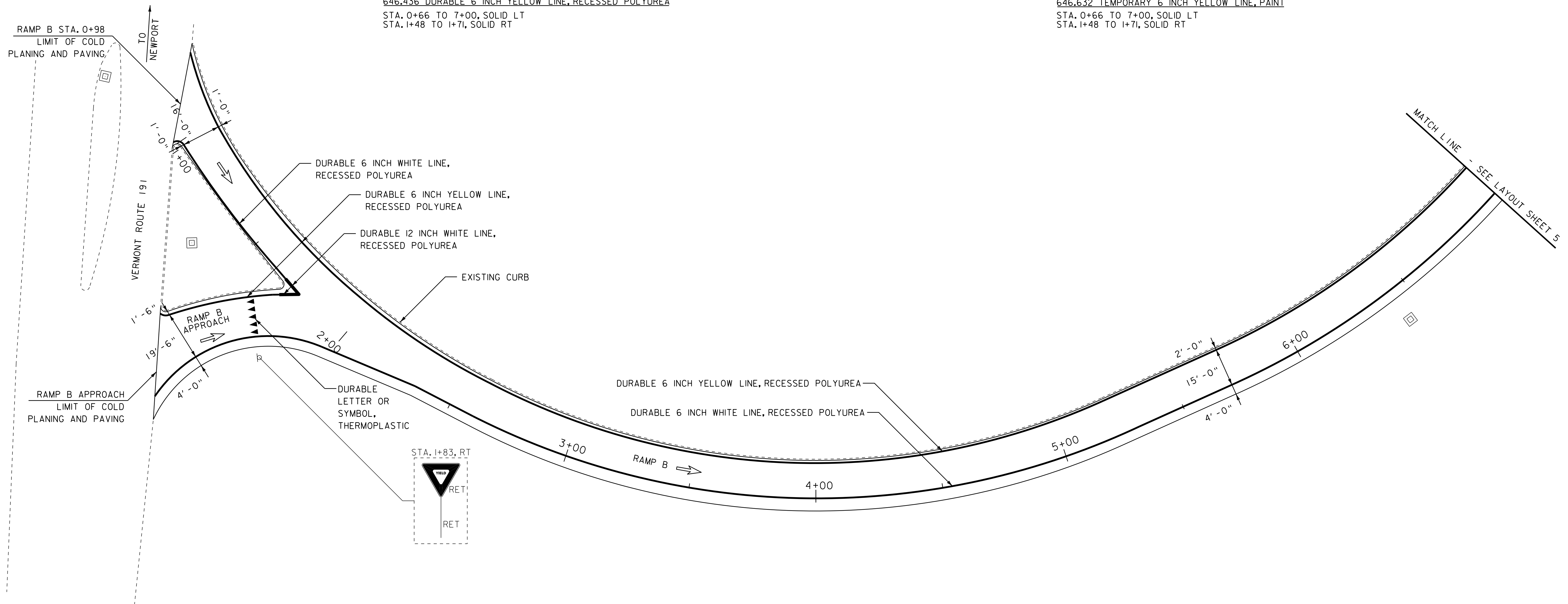
STA. 0+66 TO 7+00, SOLID LT
 STA. 1+48 TO 1+71, SOLID RT

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT

STA. 1+68 TO 1+76, SOLID C

646.692 TEMPORARY LETTER OR SYMBOL, PAINT

STA. 1+83, RT - YIELD LINE



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇒



INTERCHANGE 27 LAYOUT SHEET #4

NOT TO SCALE

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200104

PLOT DATE: 07-SEP-2011 10:24
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 24 OF 63

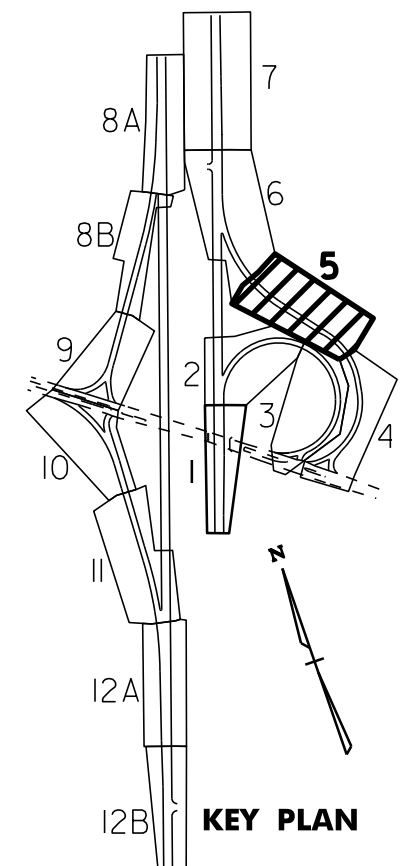
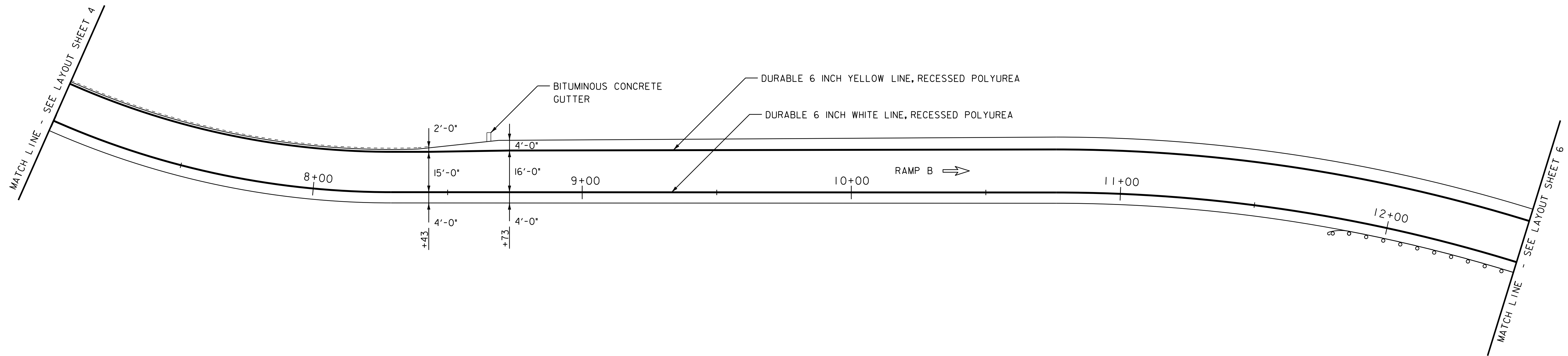
616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLAND
 STA. 8+65, LT
 (SEE MISCELLANEOUS DETAIL SHEET)

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 7+00 TO 12+50, SOLID C

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 7+00 TO 12+50, SOLID C

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 7+00 TO 12+50, SOLID LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 7+00 TO 12+50, SOLID LT



NOTES: 1. FOR STRIPING DETAILS AT GORES,
 SEE THE PAVEMENT MARKINGS
 DETAIL SHEET AND THE LATEST
 EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇒



**INTERCHANGE
 27 LAYOUT
 SHEET #5**

NOT TO SCALE

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200i05

PLOT DATE: 07-SEP-2011 10:24
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 25 OF 63

604.412, 604.415 OR 604.418 REHAB. DIS, CBS OR MHS, CLASS I, II OR III
 STA. 13+75, LT

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 12+50 TO 14+79, SOLID C

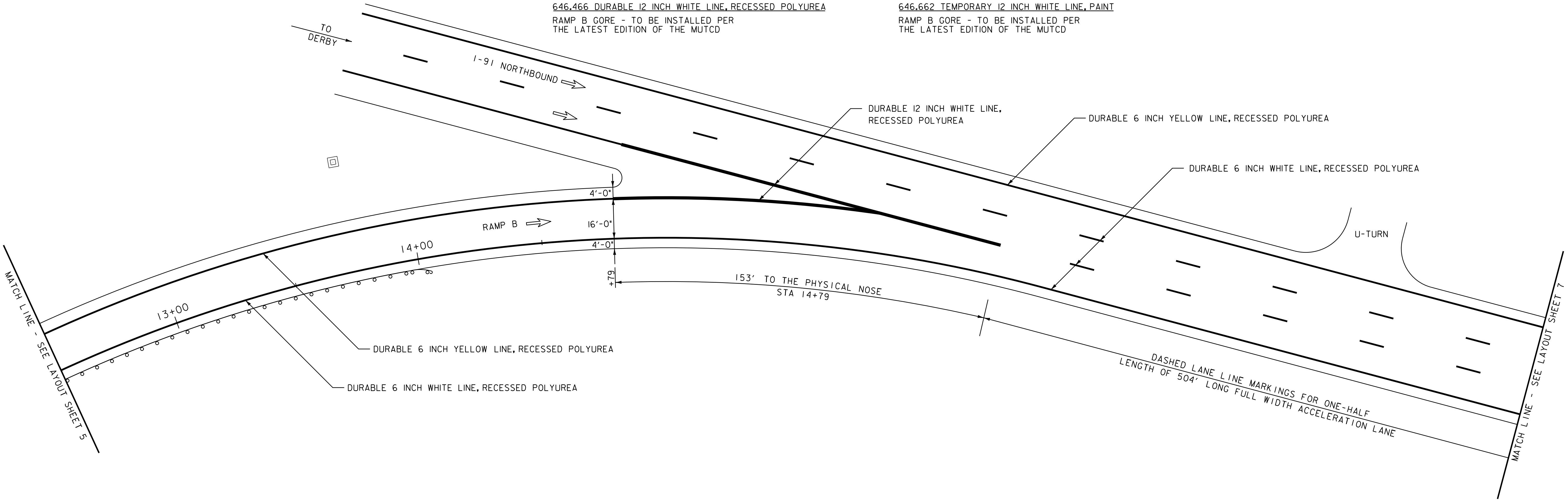
646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 12+50 TO 14+79, SOLID C

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 12+50 TO 14+79, SOLID LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 12+50 TO 14+79, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP B GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP B GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



MATCH LINE - SEE LAYOUT SHEET 5

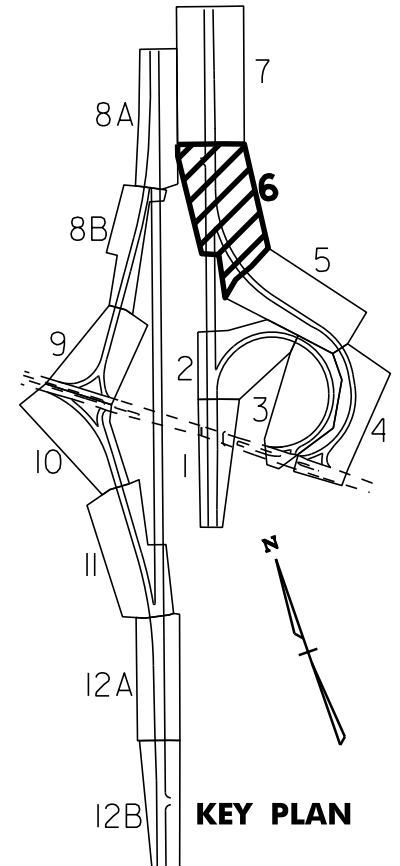
MATCH LINE - SEE LAYOUT SHEET 7

NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW

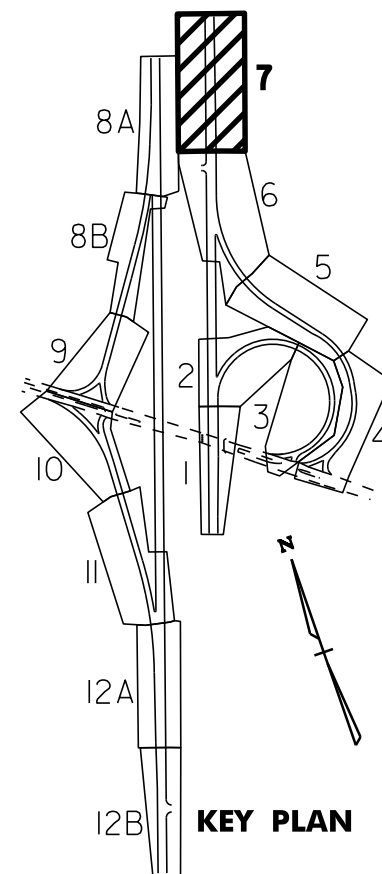
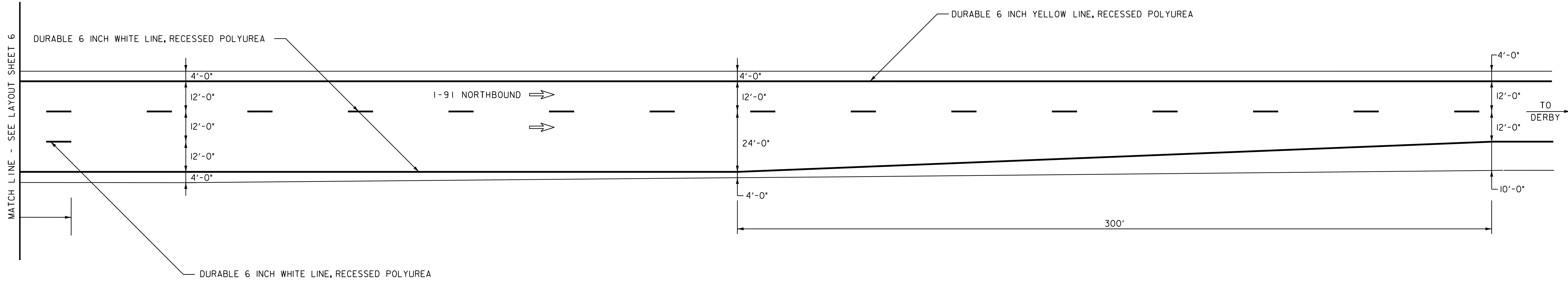


INTERCHANGE 27 LAYOUT SHEET #6

PROJECT NAME: DERBY		PLOT DATE: 07-SEP-2011 10:24
PROJECT NUMBER: IM 091-3(46)		
FILE NAME: p06a200.dgn	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC		CHECKED BY: JLL
IPARM FILE: p06a200i06		SHEET 26 OF 63



NOT TO SCALE



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇨



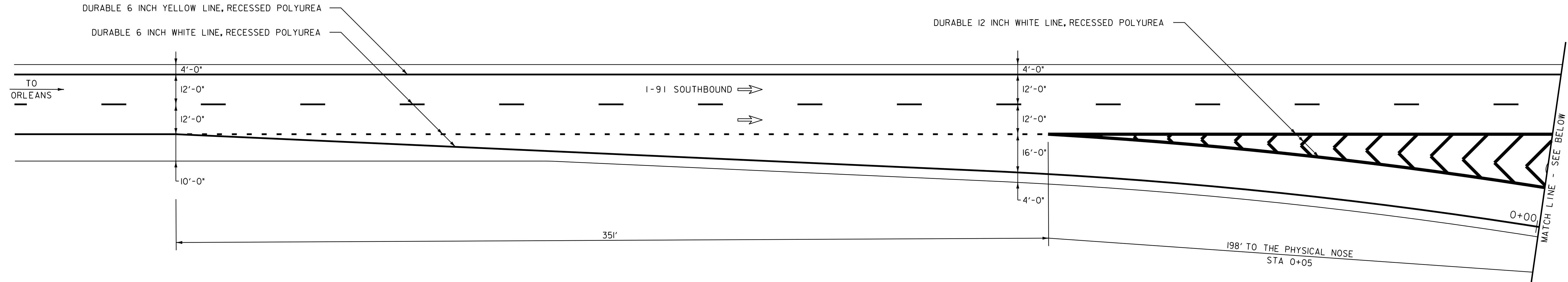
**INTERCHANGE
27 LAYOUT
SHEET #7**

NOT TO SCALE

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:24
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 27 OF 63
IPARM FILE: p06a200i07	

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP C GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP C GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 0+05 TO 5+50, SOLID C

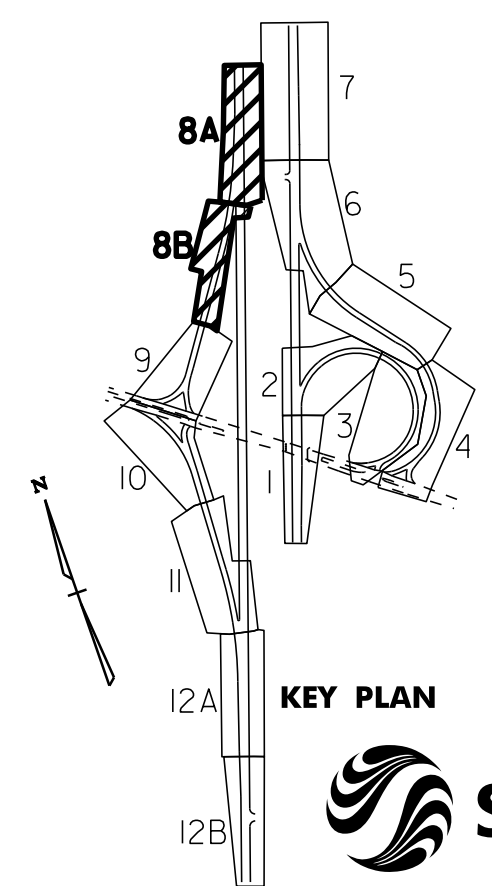
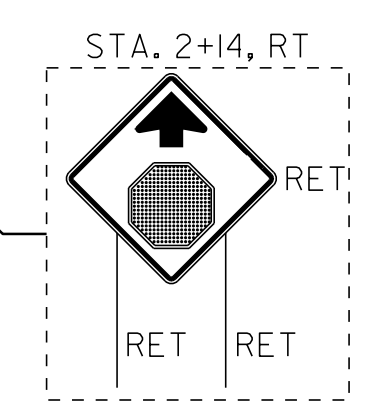
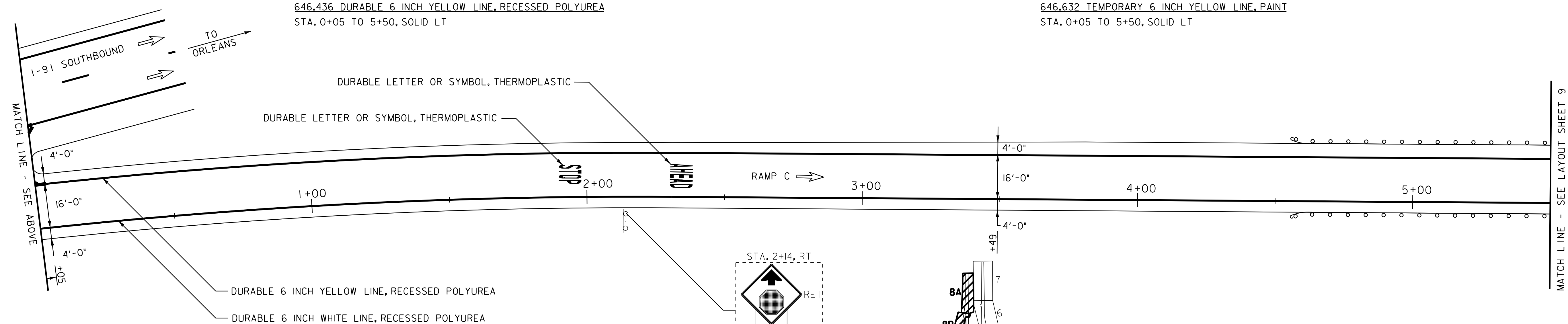
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 0+05 TO 5+50, SOLID LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 1+94, LT - "STOP"
 STA. 2+34, LT - "AHEAD"

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 0+05 TO 5+50, SOLID C

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 0+05 TO 5+50, SOLID LT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 1+94, LT - "STOP"
 STA. 2+34, LT - "AHEAD"



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →

INTERCHANGE 27 LAYOUT SHEET #8A & #8B	PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:24 DRAWN BY: STANTEC CHECKED BY: JLL SHEET 28 OF 63
	PROJECT NUMBER: IM 091-3(46)	
	FILE NAME: p06a200.dgn	
	DESIGNED BY: STANTEC	
		IPARM FILE: p06a200i08

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 5+50 TO 9+96, SOLID C
 STA. 8+60 TO 8+91, SOLID LT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 5+50 TO 8+91, SOLID LT
 STA. 8+60 TO 9+46, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 STA. 8+55 TO 8+60, SOLID LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
 STA. 8+87, LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 6+40, LT - ARROW
 STA. 8+85, LT - "STOP"
 STA. 9+41, LT - YIELD LINE

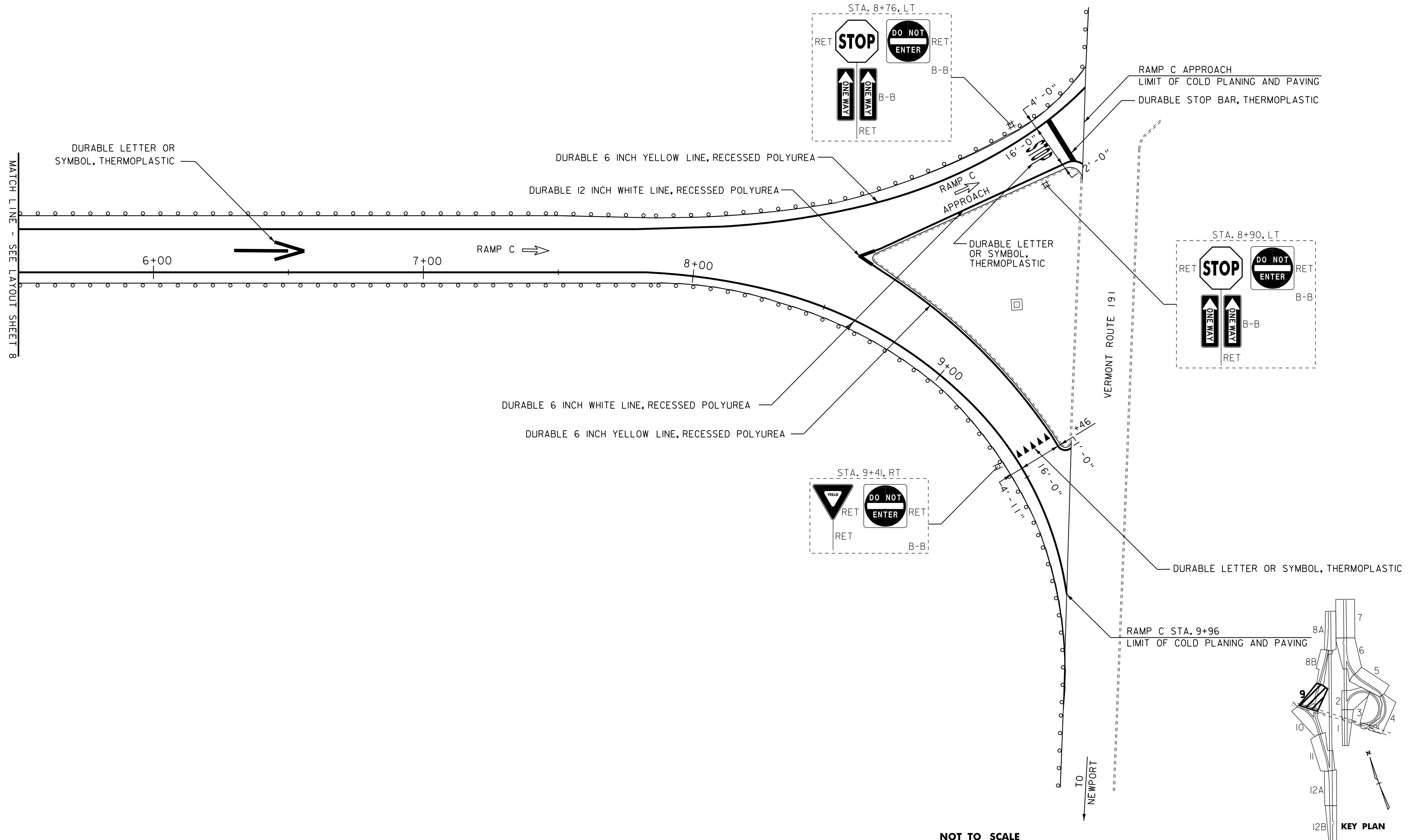
646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 5+50 TO 9+96, SOLID C
 STA. 8+60 TO 8+91, SOLID LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 5+50 TO 8+91, SOLID LT
 STA. 8+60 TO 9+46, SOLID LT

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 STA. 8+55 TO 8+60, SOLID LT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 8+87, LT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 6+40, LT - ARROW
 STA. 8+85, LT - "STOP"
 STA. 9+41, LT - YIELD LINE



MATCH LINE - SEE LAYOUT SHEET 8

NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇨



**INTERCHANGE
 27 LAYOUT
 SHEET #9**

NOT TO SCALE

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200109

PLOT DATE: 07-SEP-2011 10:24
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 29 OF 63

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA

STA. 0+30 TO 5+68, SOLID RT
STA. 2+28 TO 2+81, SOLID LT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

STA. 1+15 TO 2+80, SOLID C
STA. 2+44 TO 5+68, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA

STA. 2+80 TO 2+94, SOLID LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC

STA. 2+61, LT - YIELD LINE

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

STA. 0+30 TO 5+68, SOLID RT
STA. 2+28 TO 2+81, SOLID LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

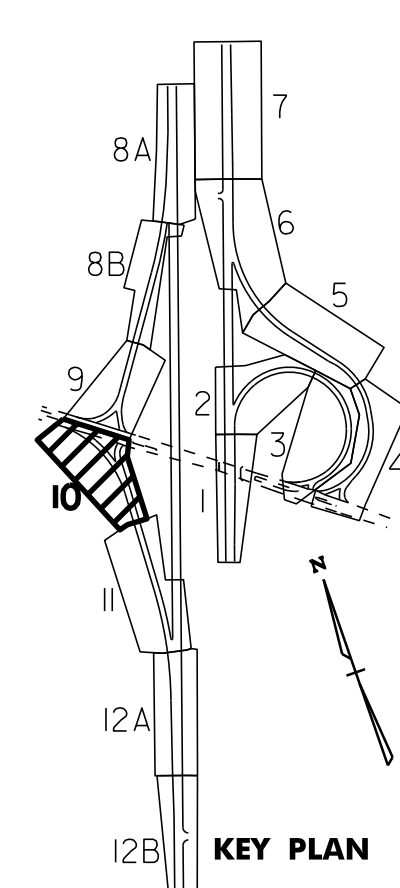
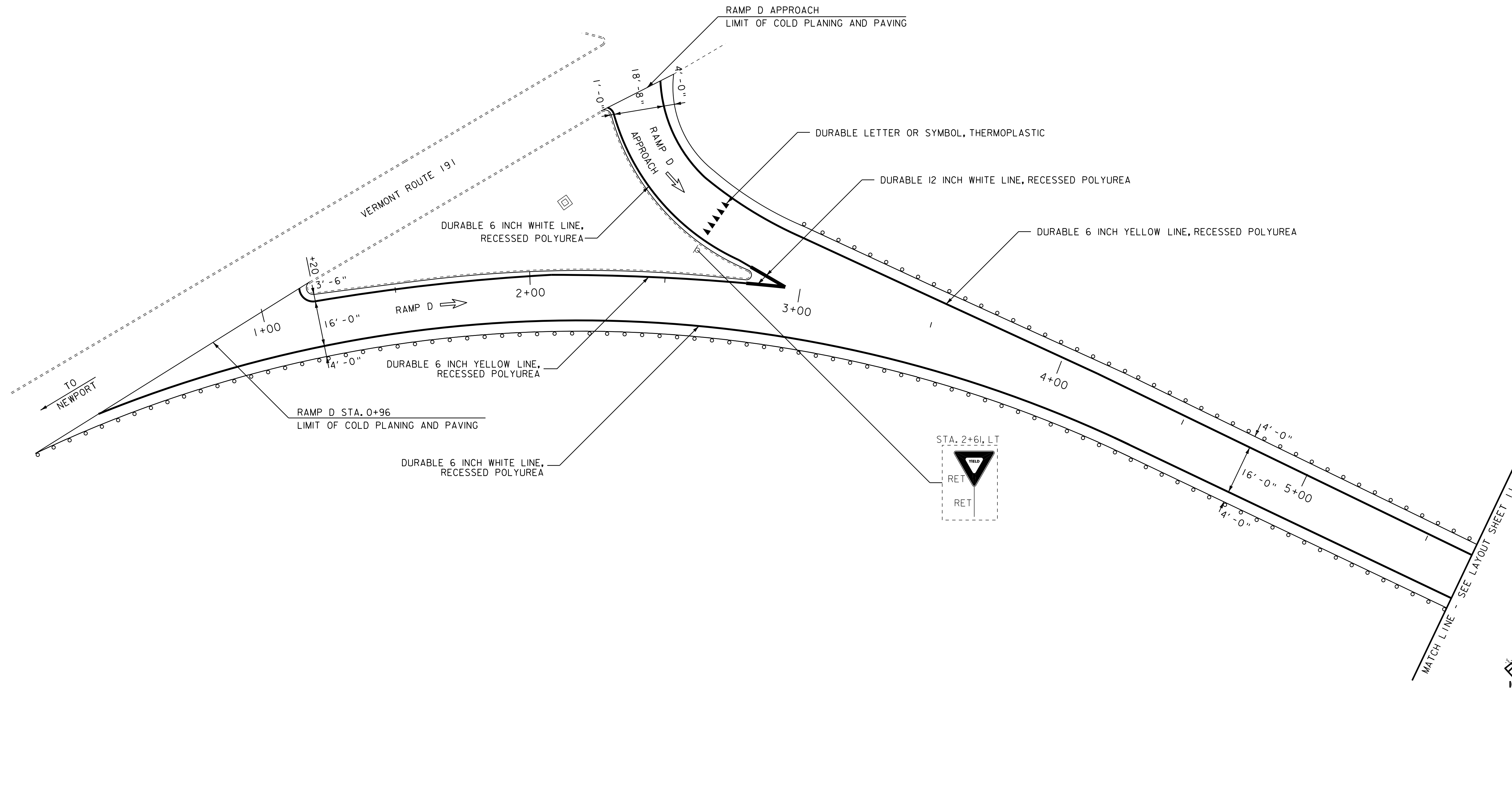
STA. 1+15 TO 2+80, SOLID C
STA. 2+44 TO 5+68, SOLID LT

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT

STA. 2+80 TO 2+94, SOLID LT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT

STA. 2+61, LT - YIELD LINE



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇨



INTERCHANGE 27 LAYOUT SHEET #10

NOT TO SCALE

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200110

PLOT DATE: 07-SEP-2011 10:24
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 30 OF 63

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 5+68 TO 11+09, SOLID RT

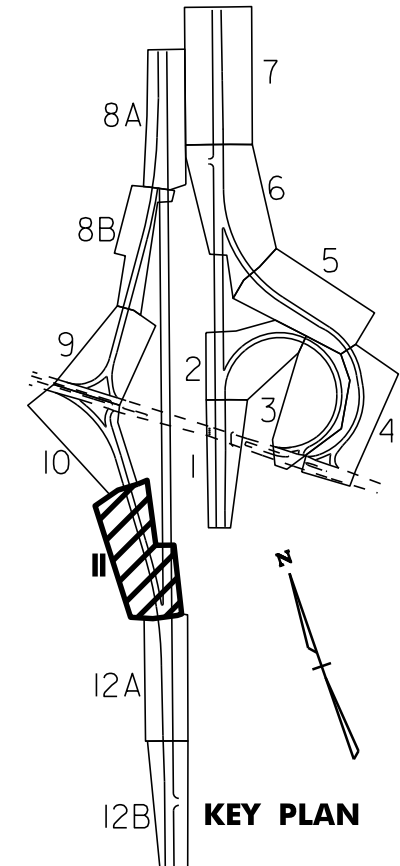
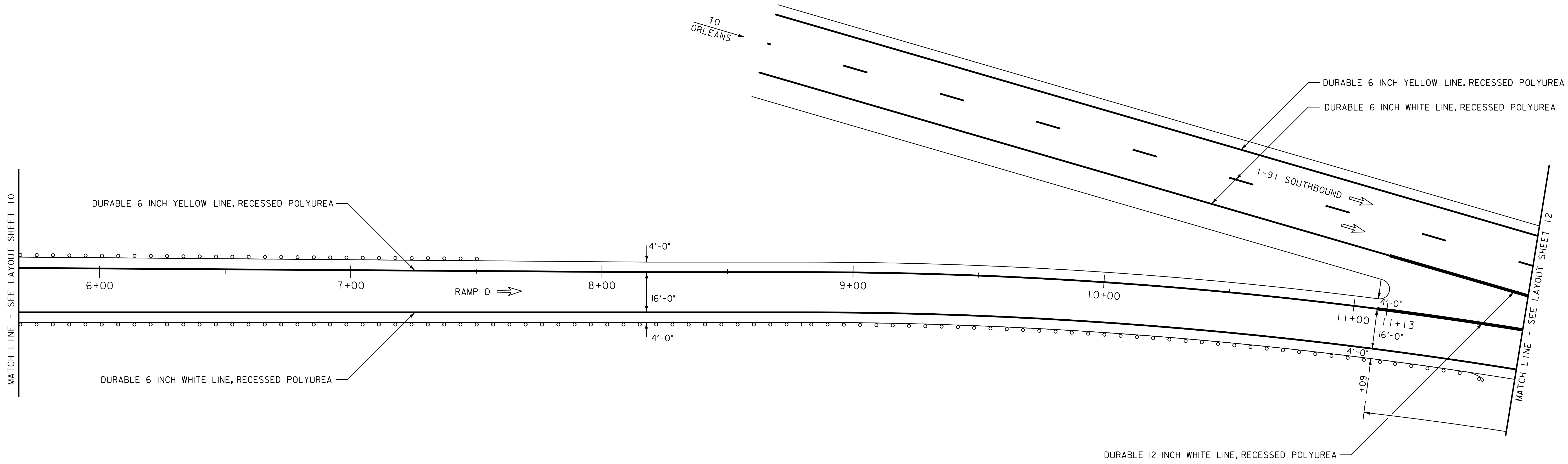
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 5+68 TO 11+09, SOLID C

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 5+68 TO 11+09, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 5+68 TO 11+09, SOLID C

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
RAMP D GORE - TO BE INSTALLED PER
THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
RAMP D GORE - TO BE INSTALLED PER
THE LATEST EDITION OF THE MUTCD



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇒



INTERCHANGE 27 LAYOUT SHEET #11

NOT TO SCALE

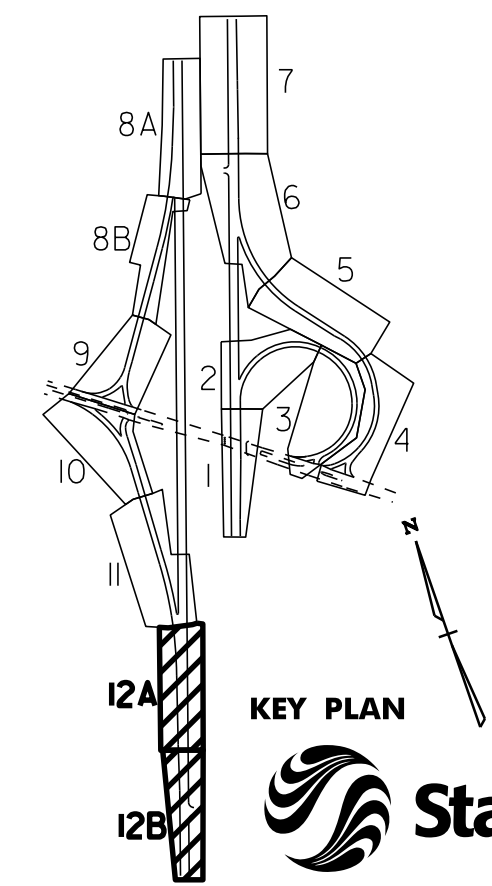
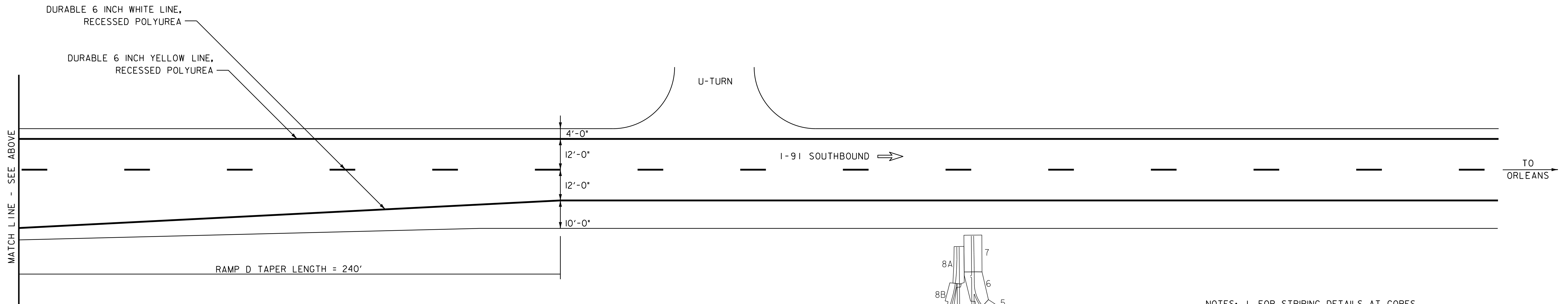
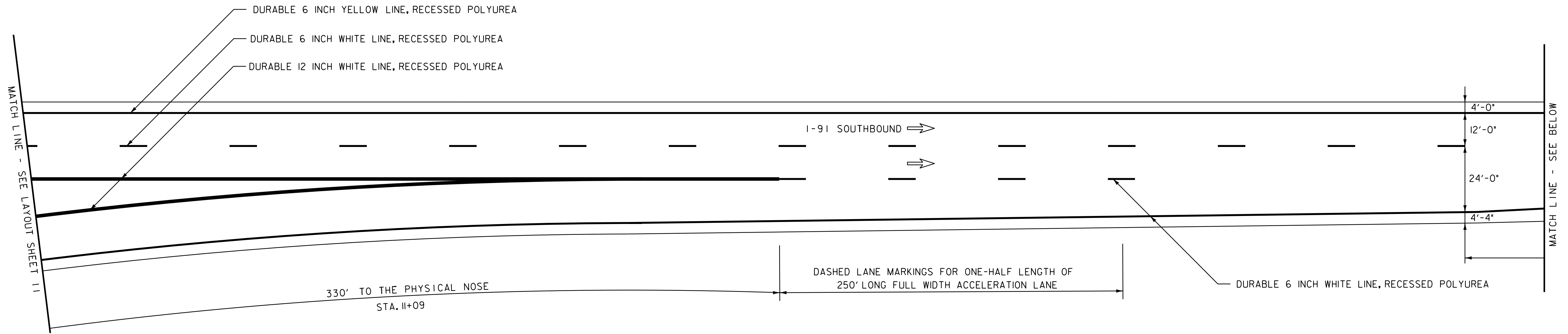
PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a20011

PLOT DATE: 07-SEP-2011 10:25
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 31 OF 63

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP D GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP D GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



NOTES: 1. FOR STRIPING DETAILS AT GORES,
 SEE THE PAVEMENT MARKINGS
 DETAIL SHEET AND THE LATEST
 EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇨

**INTERCHANGE
 27 LAYOUT
 SHEET
 #12A & #12B**

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200112

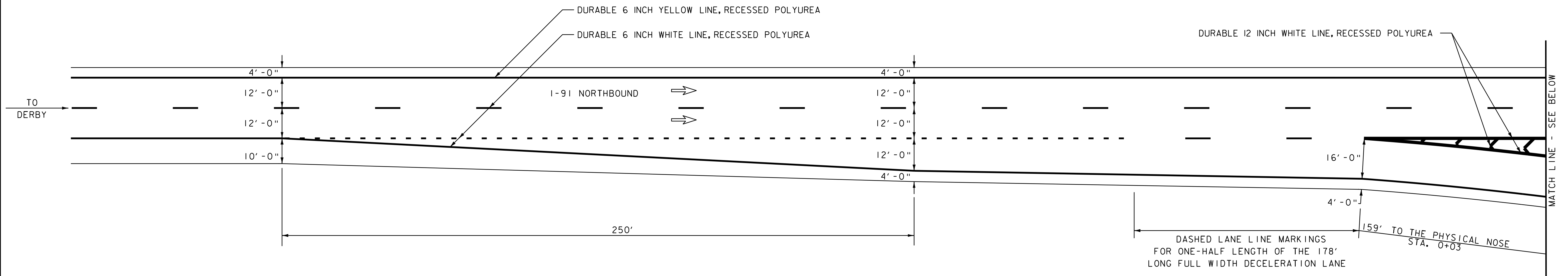
PLOT DATE: 07-SEP-2011 10:25
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 32 OF 63



NOT TO SCALE

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP D GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP D GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

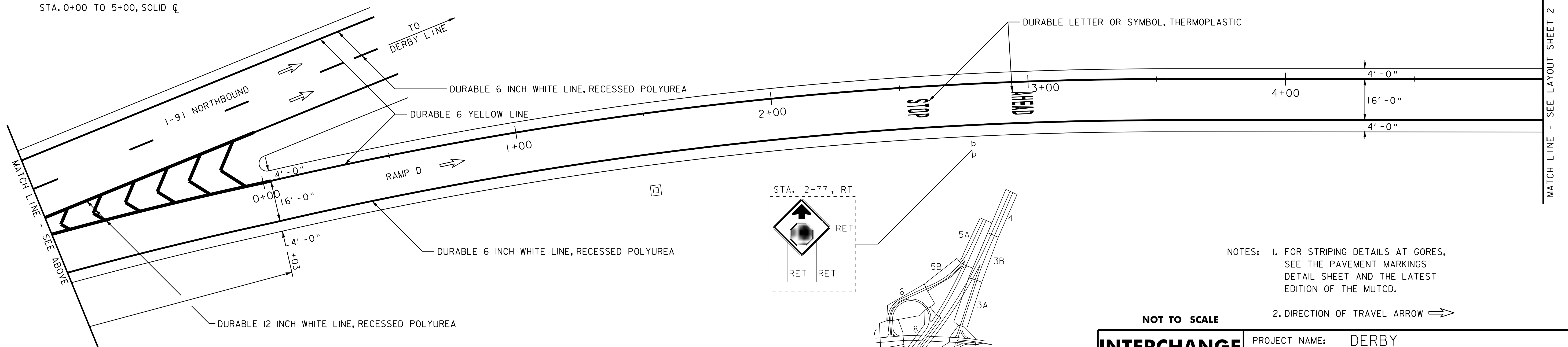


604.412, 604.415 OR 604.418 REHAB. DIS, CBS OR MHS, CLASS I, II OR III
 STA. 1+51, RT
 646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 0+00 TO 5+00, SOLID RT
 646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 0+00 TO 5+00, SOLID C

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP D GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD
 646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 2+57, RT - "STOP"
 STA. 2+97, RT - "AHEAD"

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 0+00 TO 5+00, SOLID RT
 646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 0+00 TO 5+00, SOLID C

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP D GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD
 646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 2+57, RT - "STOP"
 STA. 2+97, RT - "AHEAD"



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW

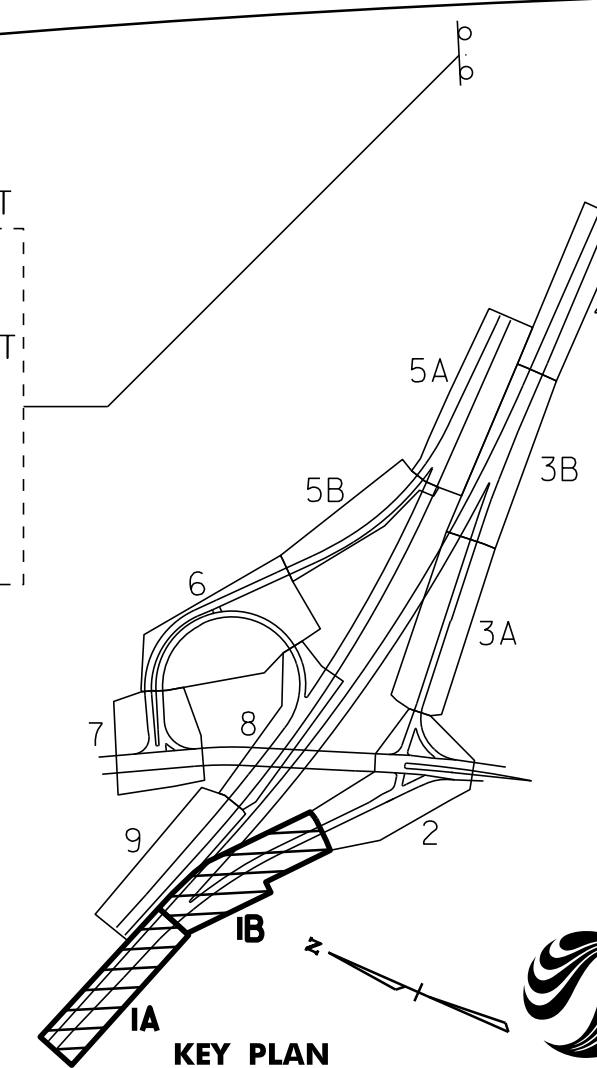
NOT TO SCALE

**INTERCHANGE
 28 LAYOUT
 SHEET
 #1A & #1B**

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200L01.i

PLOT DATE: 07-SEP-2011 10:25
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 33 OF 63



604.412, 604.415 OR 604.418 REHAB. Dis, CBs OR MHS, CLASS I, II OR III

RAMP A STA. 0+87, RT
RAMP A STA. 1+41, LT (ON RAMP A APPROACH)

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA

RAMP A STA. 0+19 TO 2+50, SOLID RT
RAMP A STA. 1+31 TO 1+92, SOLID LT
RAMP D STA. 5+00 TO 9+54, SOLID RT
RAMP D STA. 8+08 TO 8+32, SOLID LT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

RAMP A STA. 0+75 TO 1+90, SOLID C
RAMP A STA. 1+48 TO 2+50, SOLID LT
RAMP D STA. 5+00 TO 6+85, SOLID C
RAMP D STA. 6+85 TO 8+06, SOLID LT
RAMP D STA. 8+12 TO 8+91, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA

RAMP A STA. 1+90 TO 2+06, SOLID C
RAMP D STA. 8+03 TO 8+12, SOLID LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC

RAMP D STA. 8+19, LT
RAMP D STA. 8+78, RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC

RAMP A STA. 1+82, RT - YIELD LINE
RAMP D STA. 6+90, RT - ARROW
RAMP D STA. 8+14, LT - "STOP"
RAMP D STA. 8+70, RT - "STOP"

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP A STA. 0+19 TO 2+50, SOLID RT
RAMP A STA. 1+31 TO 1+92, SOLID LT
RAMP D STA. 5+00 TO 9+54, SOLID RT
RAMP D STA. 8+08 TO 8+32, SOLID LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP A STA. 0+75 TO 1+90, SOLID C
RAMP A STA. 1+48 TO 2+50, SOLID LT
RAMP D STA. 5+00 TO 6+85, SOLID C
RAMP D STA. 6+85 TO 8+06, SOLID LT
RAMP D STA. 8+12 TO 8+91, SOLID LT

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT

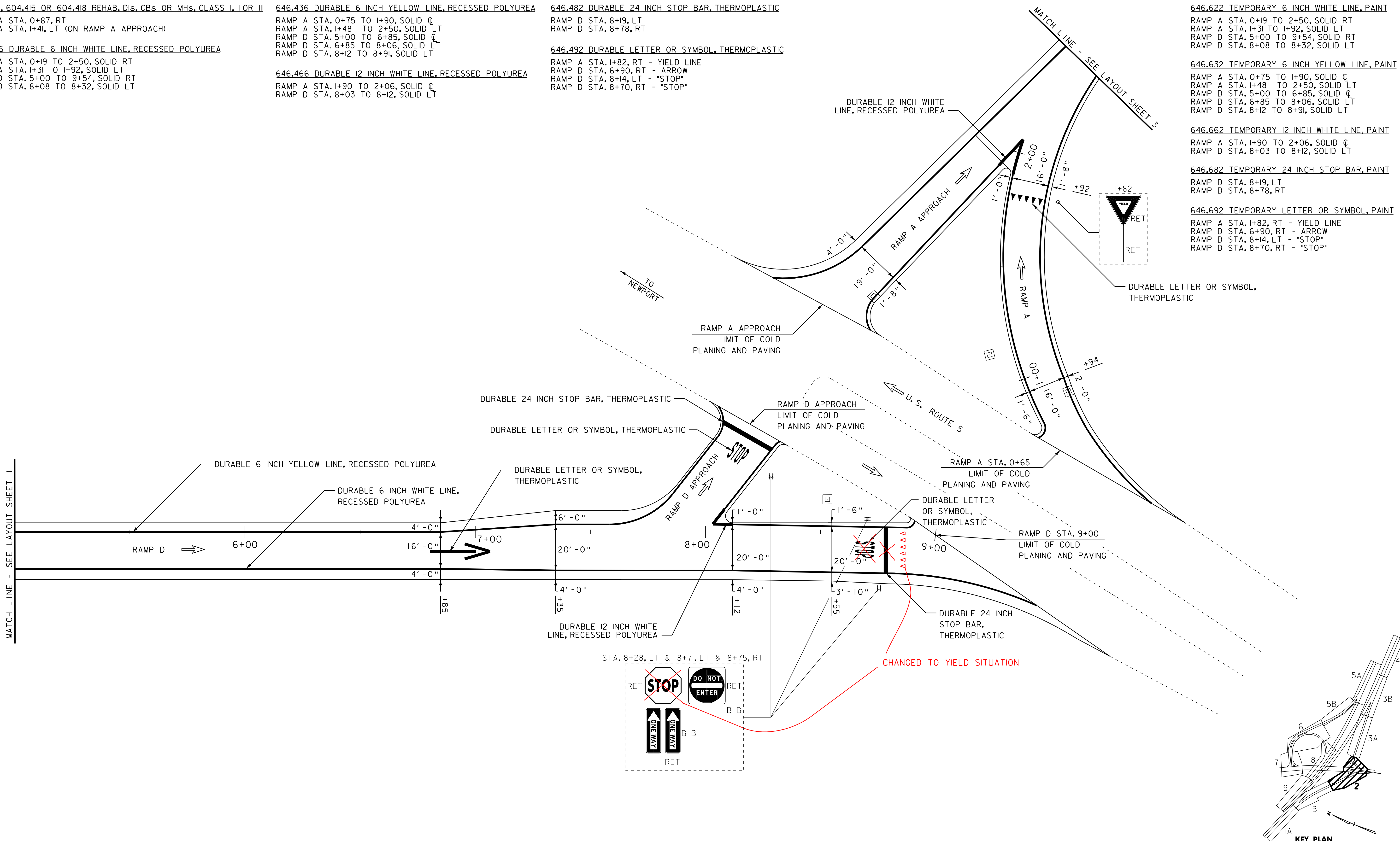
RAMP A STA. 1+90 TO 2+06, SOLID C
RAMP D STA. 8+03 TO 8+12, SOLID LT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT

RAMP D STA. 8+19, LT
RAMP D STA. 8+78, RT

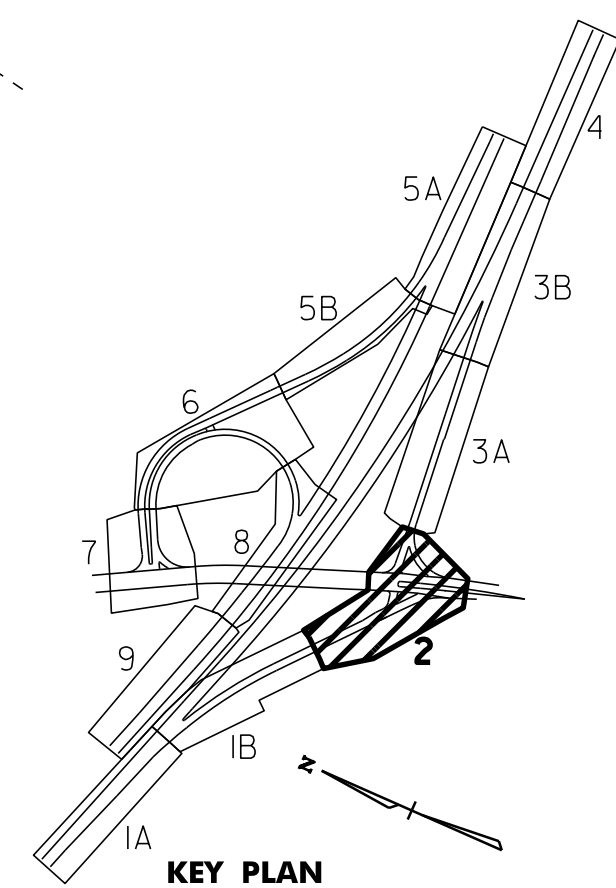
646.692 TEMPORARY LETTER OR SYMBOL, PAINT

RAMP A STA. 1+82, RT - YIELD LINE
RAMP D STA. 6+90, RT - ARROW
RAMP D STA. 8+14, LT - "STOP"
RAMP D STA. 8+70, RT - "STOP"



MATCH LINE - SEE LAYOUT SHEET 1

MATCH LINE - SEE LAYOUT SHEET 3



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW



INTERCHANGE 28 LAYOUT SHEET #2

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:25
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 34 OF 63
IPARM FILE: p06a200L02.i	

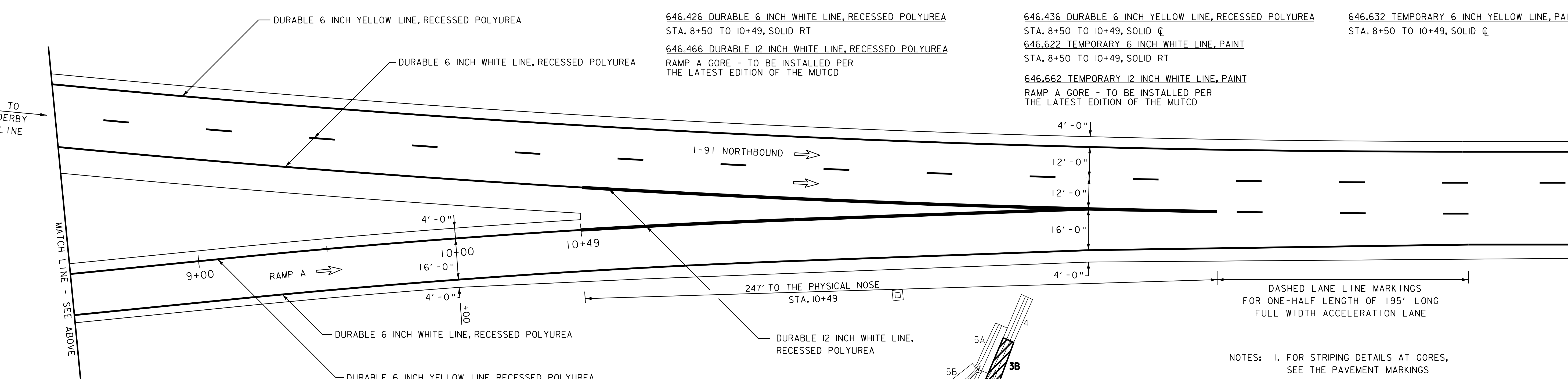
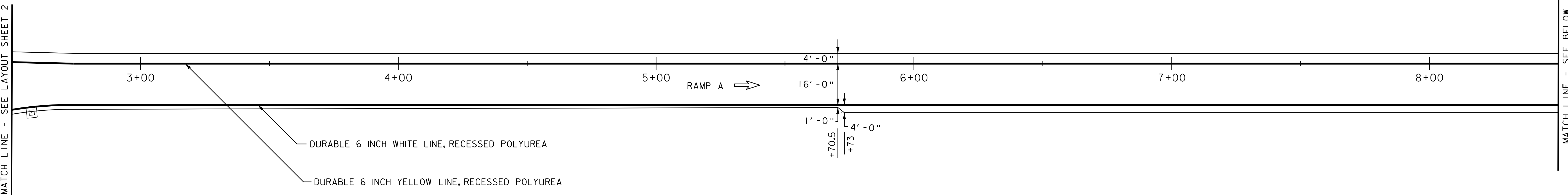
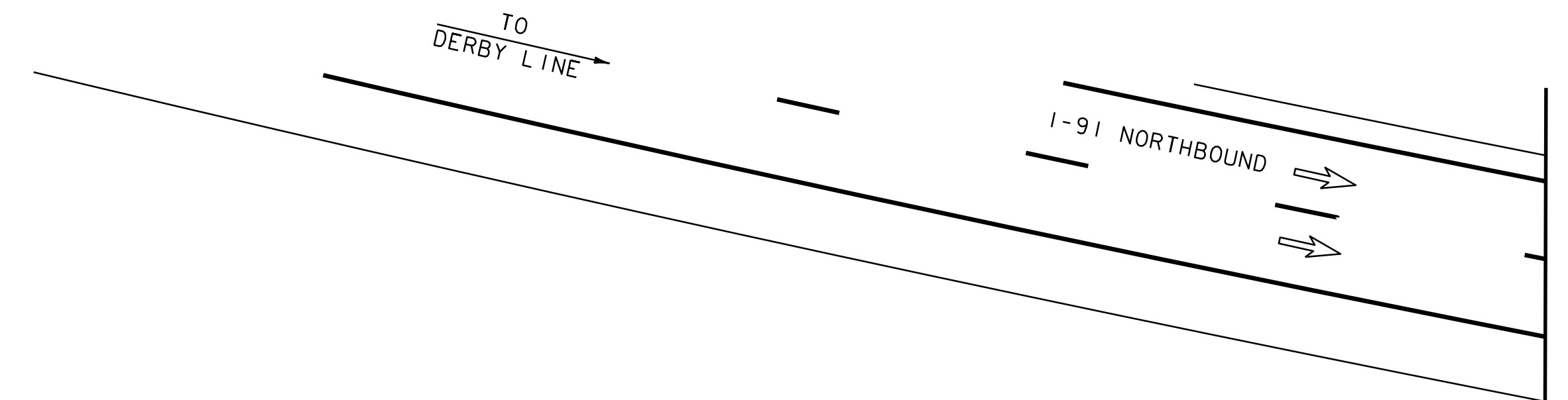
604.412, 604.415 OR 604.418 REHAB. Dis, CBs OR MHs, CLASS I, II OR III
STA. 2+56, RT

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 2+50 TO 8+50, SOLID RT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 2+50 TO 8+50, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 2+50 TO 8+50, SOLID C

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 2+50 TO 8+50, SOLID C



646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 8+50 TO 10+49, SOLID RT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
RAMP A GORE - TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 8+50 TO 10+49, SOLID C

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 8+50 TO 10+49, SOLID RT

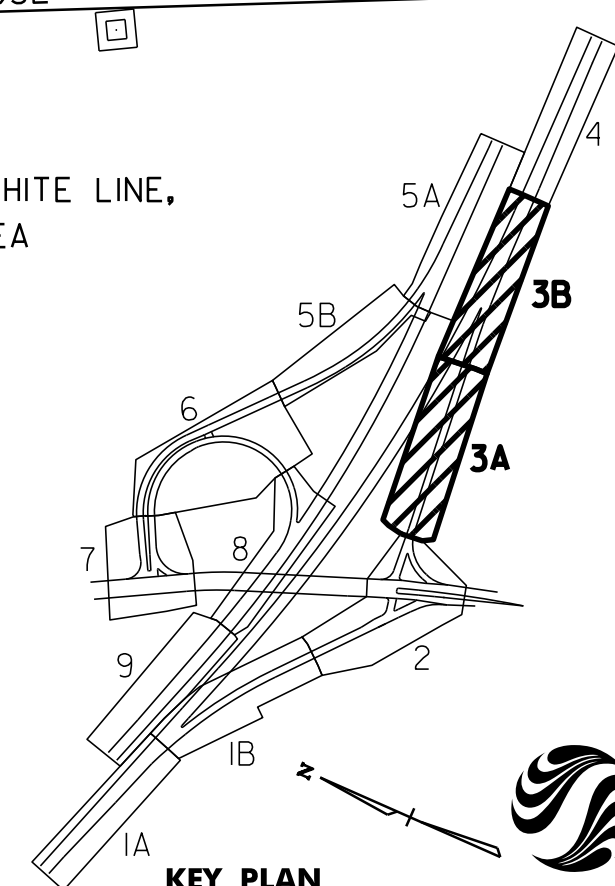
646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 8+50 TO 10+49, SOLID C

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
RAMP A GORE - TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

DASHED LANE LINE MARKINGS FOR ONE-HALF LENGTH OF 195' LONG FULL WIDTH ACCELERATION LANE

NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

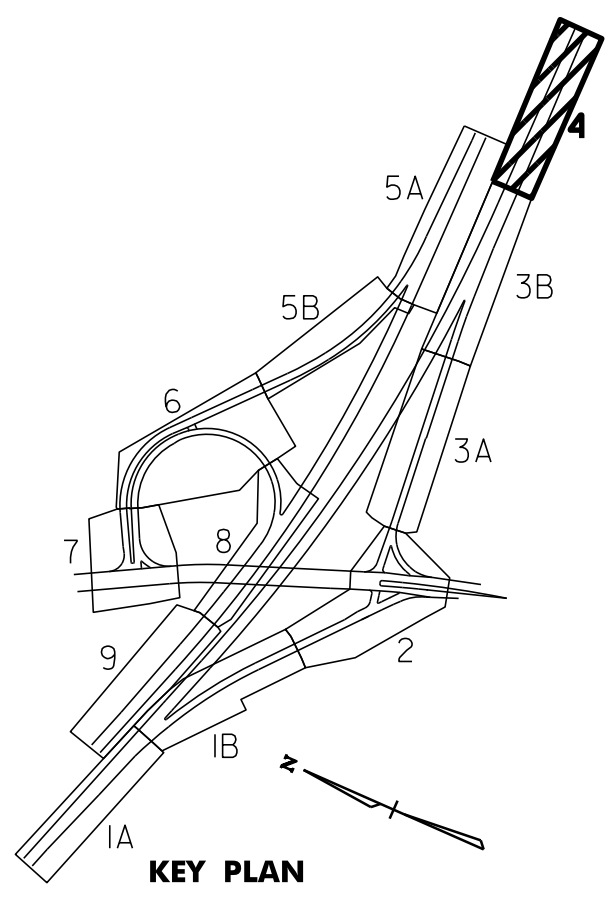
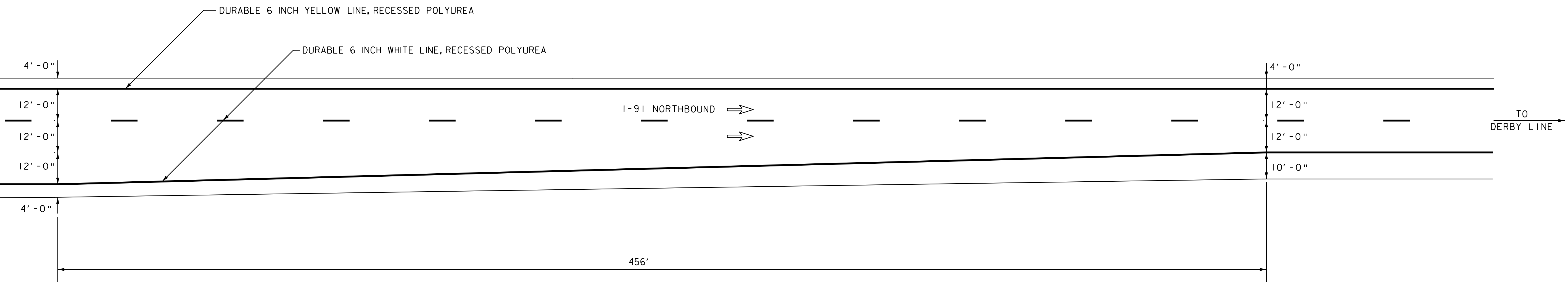
2. DIRECTION OF TRAVEL ARROW →



NOT TO SCALE
INTERCHANGE 28 LAYOUT SHEET #3A & #3B

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:25
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 35 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200L03.i	

MATCH LINE - SEE LAYOUT SHEET 3



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW ⇒



**INTERCHANGE
28 LAYOUT
SHEET #4**

NOT TO SCALE

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200L04.i

PLOT DATE: 07-SEP-2011 10:25
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 36 OF 63

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 0+00 TO 0+50, SOLID RT

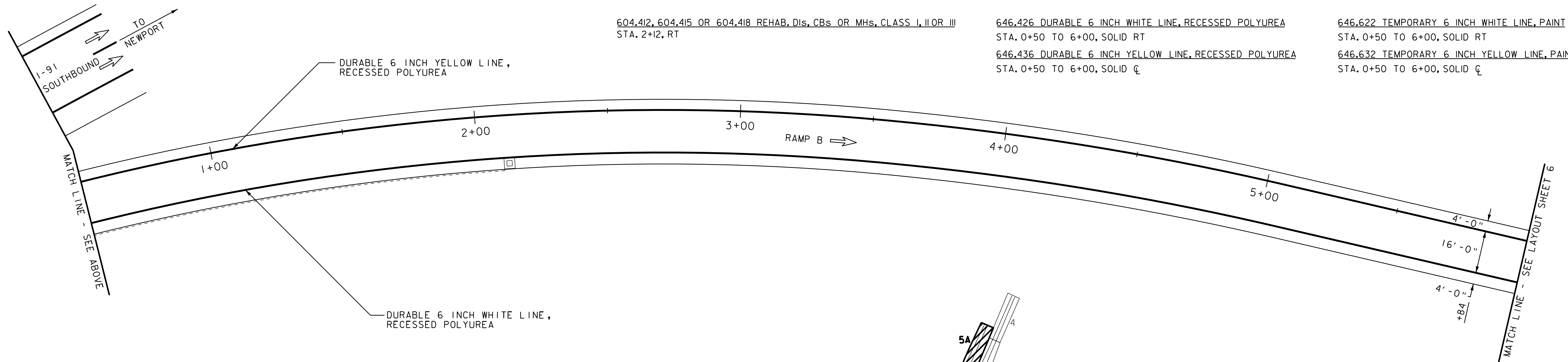
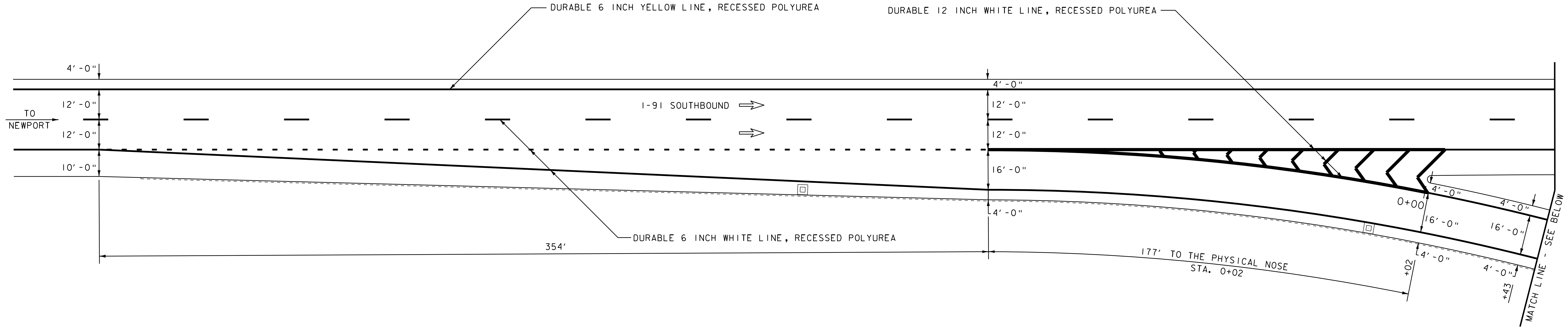
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 0+00 TO 0+50, SOLID C

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 0+00 TO 0+50, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 0+00 TO 0+50, SOLID C

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
RAMP B GORE - TO BE INSTALLED PER
THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
RAMP B GORE - TO BE INSTALLED PER
THE LATEST EDITION OF THE MUTCD



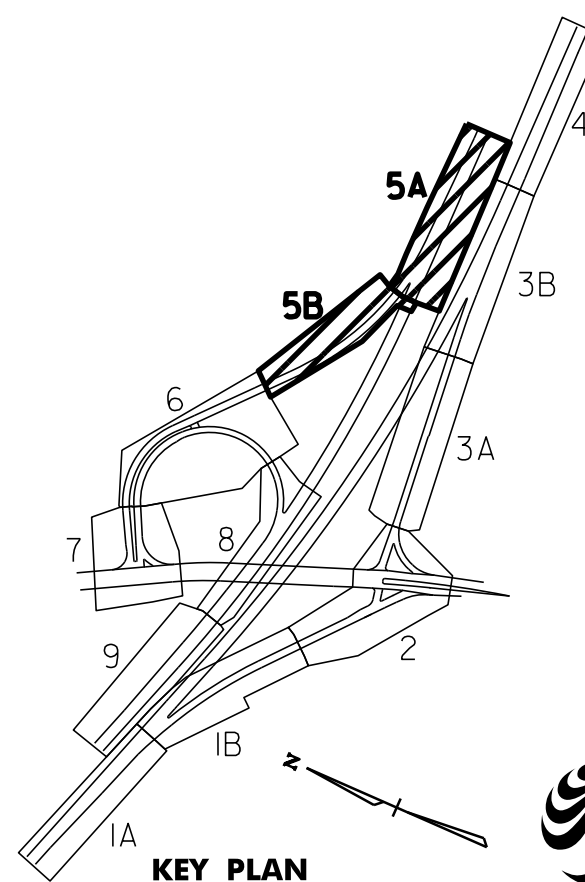
604.412, 604.415 OR 604.418 REHAB. Dis, CBs OR MHs, CLASS I, II OR III
STA. 2+12, RT

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 0+50 TO 6+00, SOLID RT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 0+50 TO 6+00, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 0+50 TO 6+00, SOLID C

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 0+50 TO 6+00, SOLID C



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →

**INTERCHANGE
28 LAYOUT
SHEET
#5A & #5B**



PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200L05.i

PLOT DATE: 07-SEP-2011 10:25
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 37 OF 63

604.412, 604.415 OR 604.418
 REHAB. Dis, CBs OR MHS, CLASS I, II OR III
 RAMP C STA. 5+29, RT
 RAMP C STA. 5+29, LT
 RAMP C STA. 5+62, LT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLAND
 RAMP C STA. 6+17 - 6+42, LT
 RAMP C STA. 7+86, RT
 (SEE MISCELLANEOUS DETAIL SHEET)

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 RAMP B STA. 6+00 TO 12+50, SOLID CL
 RAMP C STA. 2+71 TO 9+24, SOLID RT

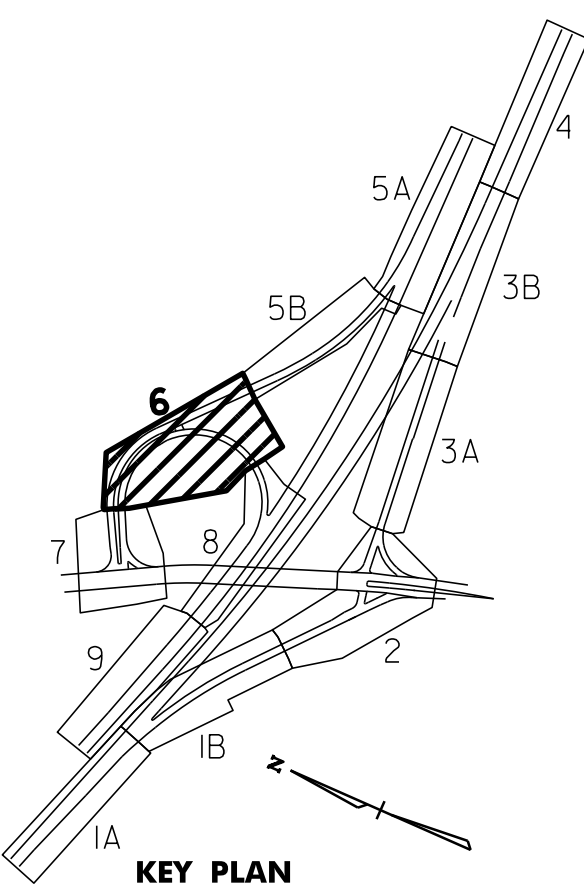
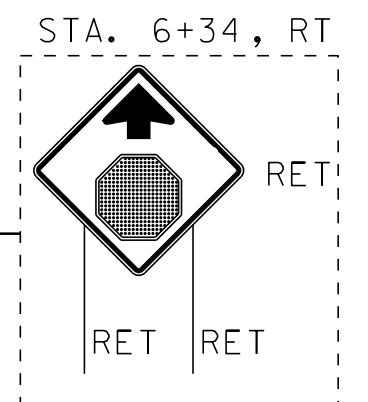
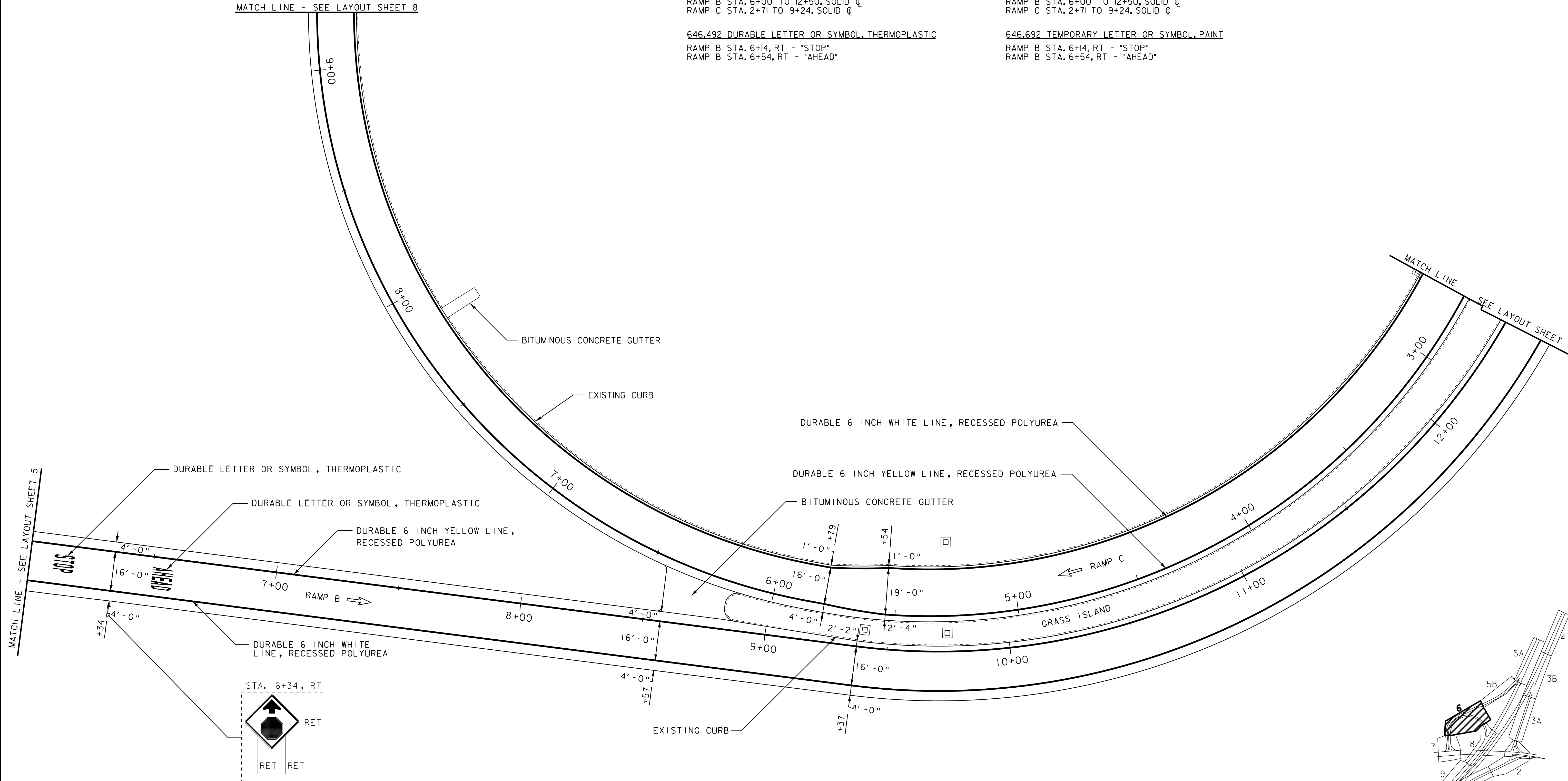
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 RAMP B STA. 6+00 TO 12+50, SOLID CL
 RAMP C STA. 2+71 TO 9+24, SOLID CL

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 RAMP B STA. 6+14, RT - "STOP"
 RAMP B STA. 6+54, RT - "AHEAD"

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 RAMP B STA. 6+00 TO 12+50, SOLID RT
 RAMP C STA. 2+71 TO 9+24, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 RAMP B STA. 6+00 TO 12+50, SOLID CL
 RAMP C STA. 2+71 TO 9+24, SOLID CL

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 RAMP B STA. 6+14, RT - "STOP"
 RAMP B STA. 6+54, RT - "AHEAD"



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW →



INTERCHANGE 28 LAYOUT SHEET #6

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:26
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 38 OF 63
IPARM FILE: p06a200L06.i	

NOT TO SCALE

604.412, 604.415 OR 604.418 REHAB. DIS, CBS OR MHS, CLASS I, II OR III
 RAMP C STA. 2+71, RT

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 RAMP B STA. 12+50 TO 14+55, SOLID RT
 RAMP C STA. 0+00 TO 2+71, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 RAMP B STA. 12+50 TO 14+38, SOLID C
 RAMP C STA. 0+54 TO 0+88, SOLID C
 APP. RAMP C STA. 0+98 TO 2+00, SOLID LT
 RAMP C STA. 2+00 TO 2+17, C

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP C STA. 0+88 TO 1+03, SOLID LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
 RAMP B STA. 14+26, RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 RAMP B STA. 13+32, RT - ARROW
 RAMP B STA. 14+17, RT - "STOP"
 APP. RAMP C STA. 0+76, RT - YIELD LINE

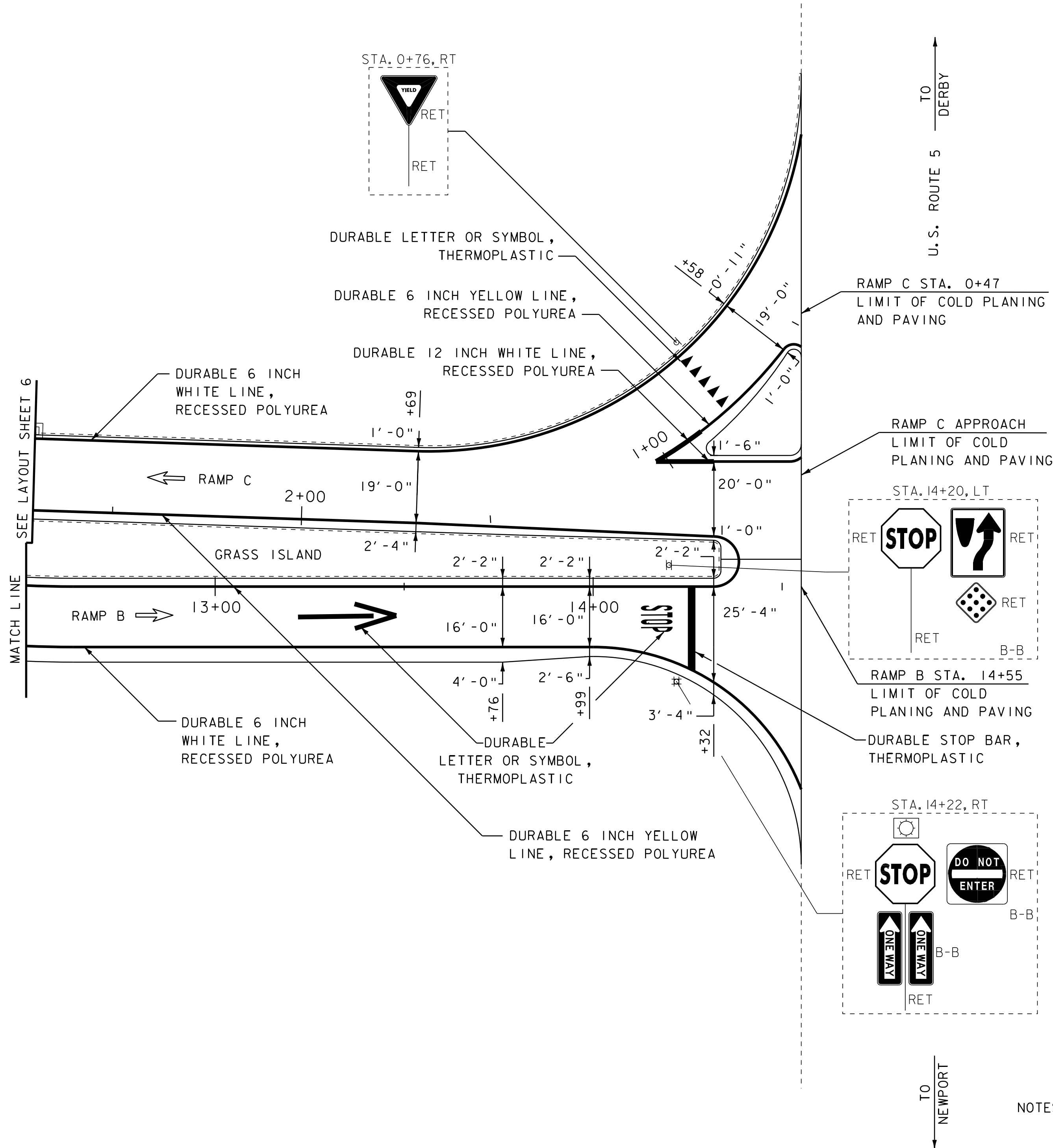
646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 RAMP B STA. 12+50 TO 14+55, SOLID RT
 RAMP C STA. 0+00 TO 2+71, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 RAMP B STA. 12+50 TO 14+38, SOLID C
 RAMP C STA. 0+54 TO 0+88, SOLID C
 APP. RAMP C STA. 0+98 TO 2+00, SOLID LT
 RAMP C STA. 2+00 TO 2+17, C

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP C STA. 0+88 TO 1+03, SOLID LT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 RAMP B STA. 14+26, RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 RAMP B STA. 13+32, RT - ARROW
 RAMP B STA. 14+17, RT - "STOP"
 APP. RAMP C STA. 0+76, RT - YIELD LINE



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW →



NOT TO SCALE
INTERCHANGE 28 LAYOUT SHEET #7

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:26
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 39 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200L07.i	

604.412, 604.415 OR 604.418 REHAB. Dis, CBs OR MHS, CLASS I, II OR III
 STA. 10+51, LT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLAND
 RAMP C STA. 10+99, RT
 (SEE MISCELLANEOUS DETAIL SHEET)

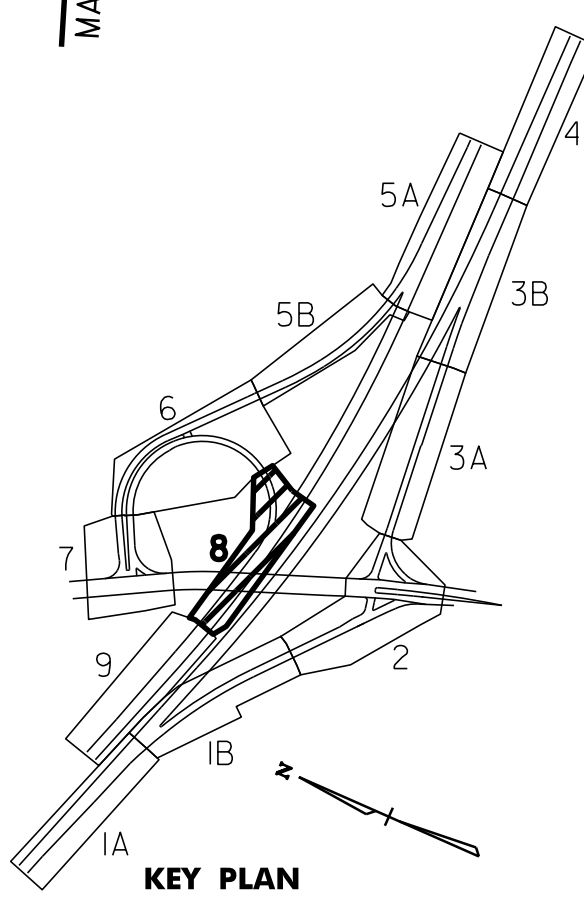
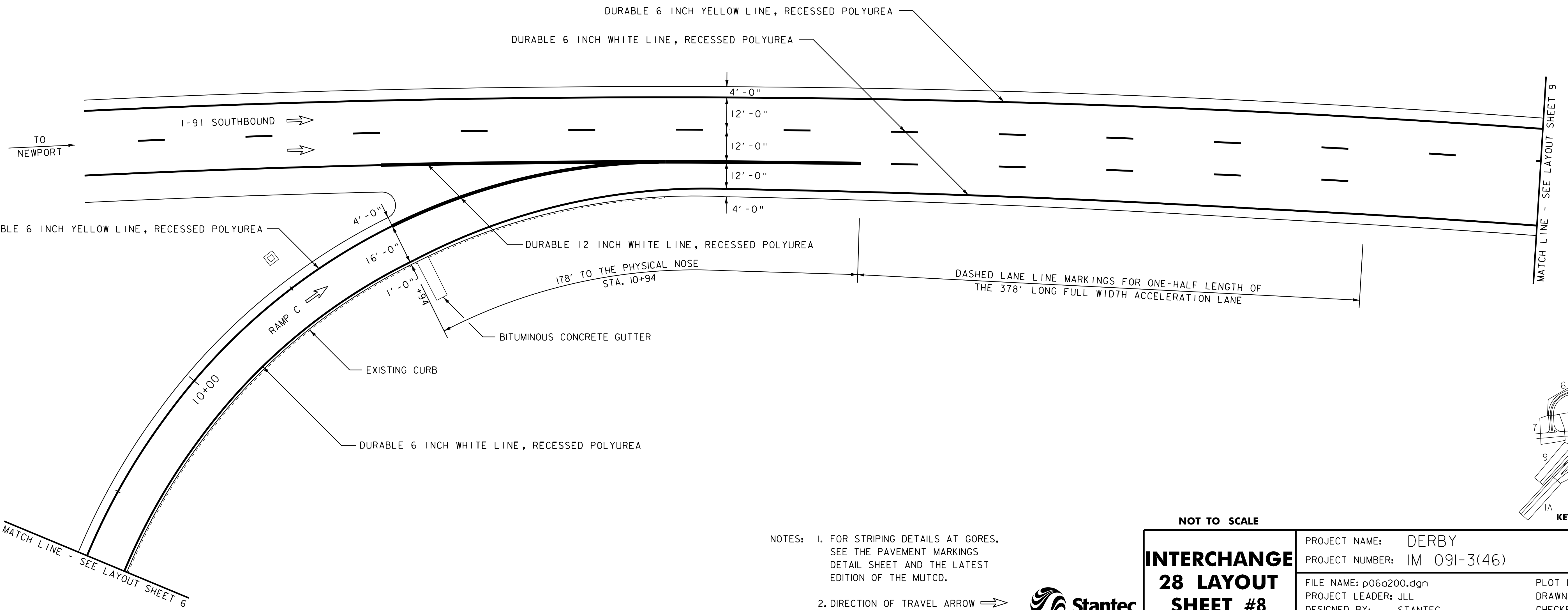
646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 9+24 TO 10+94, SOLID RT
 646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 9+24 TO 10+94, SOLID CL

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP C GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 9+24 TO 10+94, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 9+24 TO 10+94, SOLID CL

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP C GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.
 2. DIRECTION OF TRAVEL ARROW →

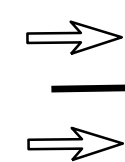


NOT TO SCALE
**INTERCHANGE
 28 LAYOUT
 SHEET #8**

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:26
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 40 OF 63
IPARM FILE: p06a200L08.i	

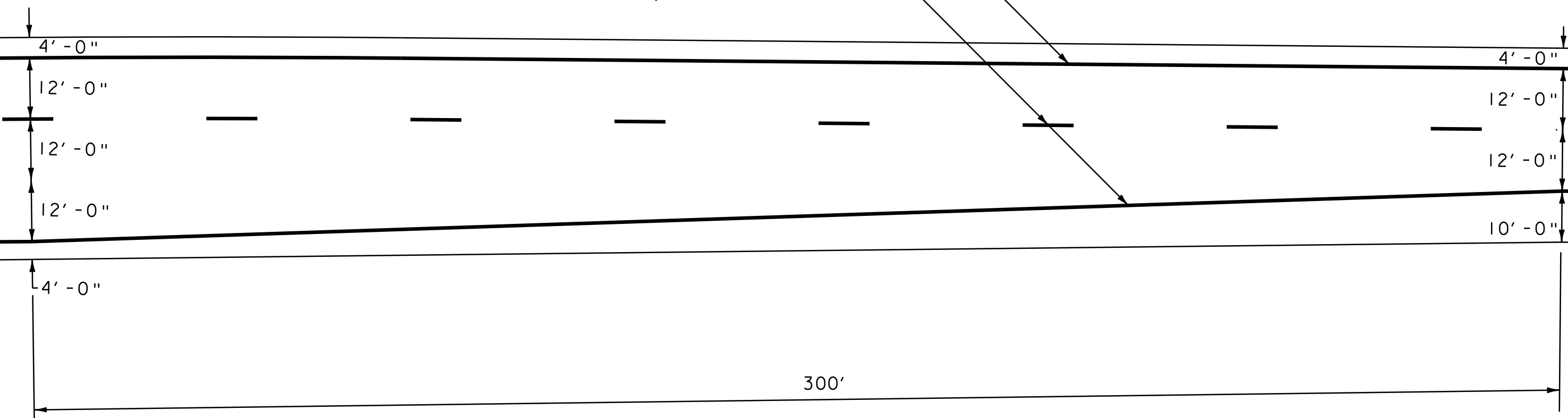
MATCH LINE - SEE LAYOUT SHEET 8

I-91 SOUTHBOUND

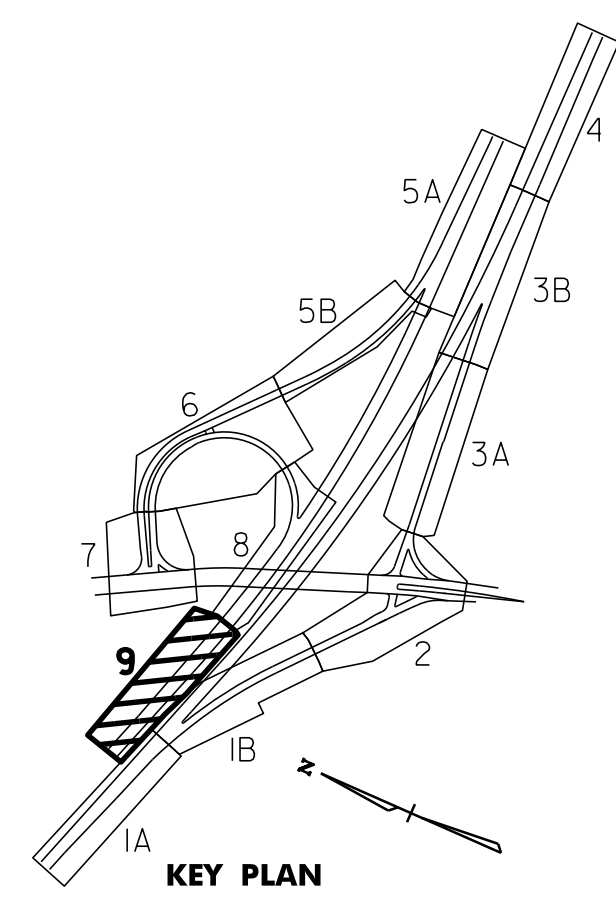


DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA



TO NEWPORT



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW



INTERCHANGE 28 LAYOUT SHEET #9

NOT TO SCALE

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200L09.i

PLOT DATE: 07-SEP-2011 10:26
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 41 OF 63

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 0+00 TO 2+00, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 0+00 TO 2+00, SOLID C

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP A GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 1+13, RT - ARROW

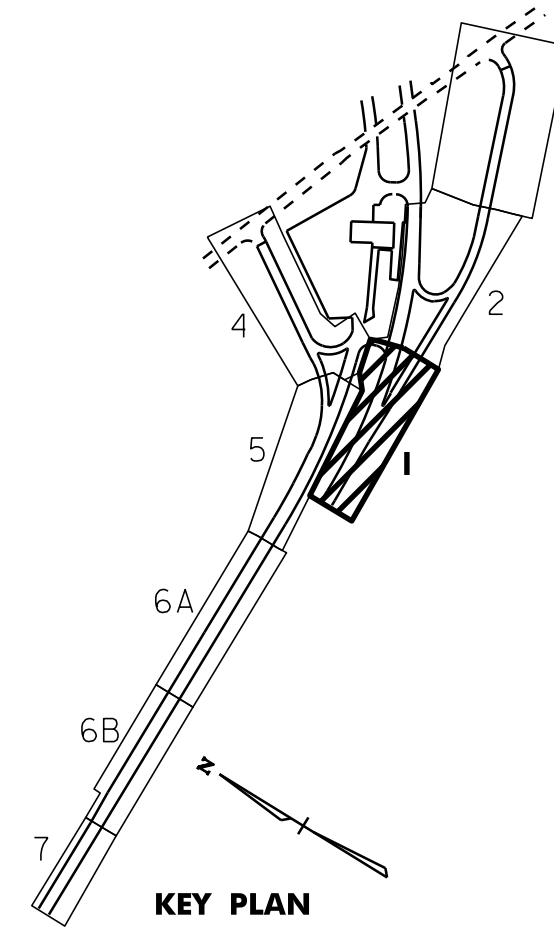
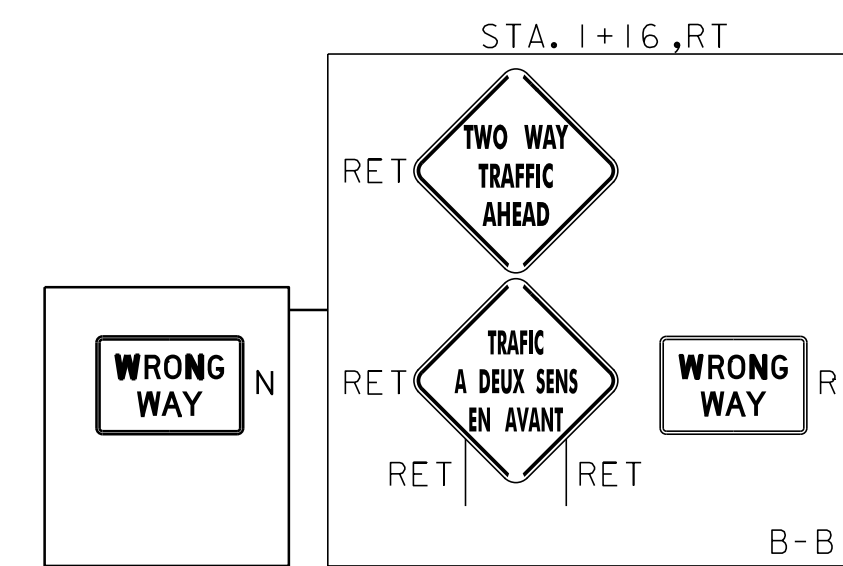
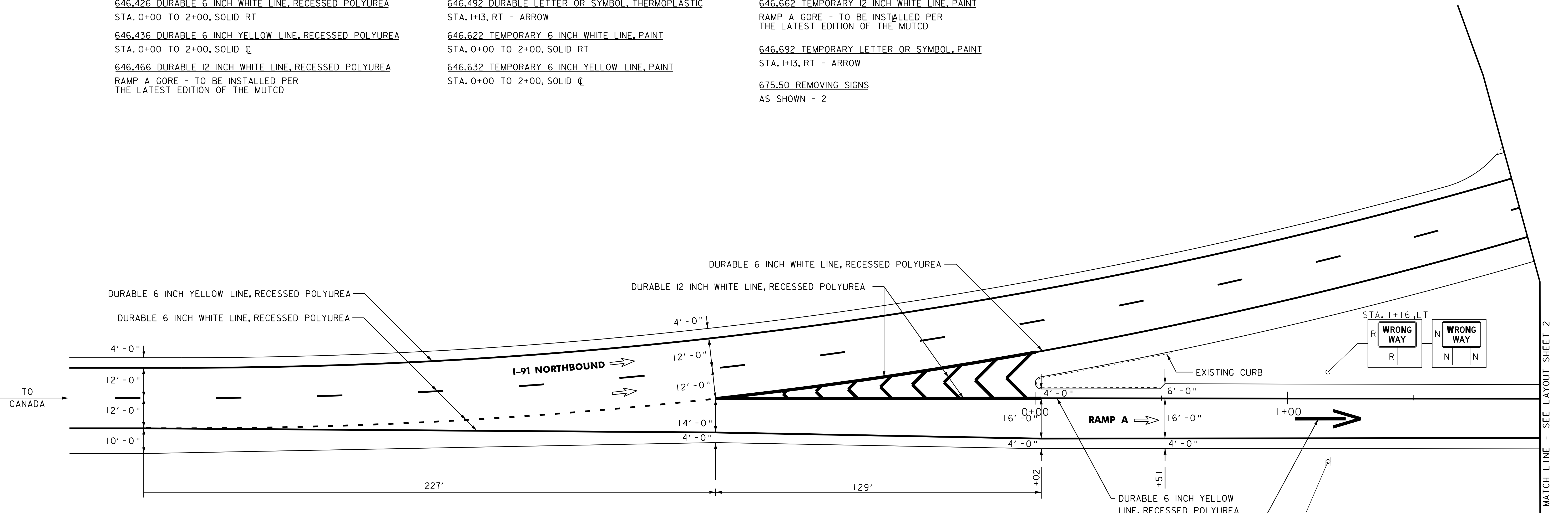
646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 0+00 TO 2+00, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 0+00 TO 2+00, SOLID C

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP A GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 1+13, RT - ARROW

675.50 REMOVING SIGNS
 AS SHOWN - 2



NOTES: 1. FOR STRIPING DETAILS AT GORES,
 SEE THE PAVEMENT MARKINGS
 DETAIL SHEET AND THE LATEST
 EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



**INTERCHANGE
 29 LAYOUT
 SHEET #1**

NOT TO SCALE

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200L01.i

PLOT DATE: 07-SEP-2011 10:26
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 42 OF 63

604.412, 604.415 OR 604.418 REHAB. DIS, CBS OR MHS, CLASS I, II OR III
 RAMP A STA. 3+62, LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 RAMP C STA. 1+55, RT - YIELD LINE

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 RAMP A STA. 2+00 TO 4+72, SOLID ☉
 RAMP A STA. 4+72 TO 7+50, DOUBLE SOLID ☉
 RAMP C STA. 0+00 TO 1+70, SOLID ☉

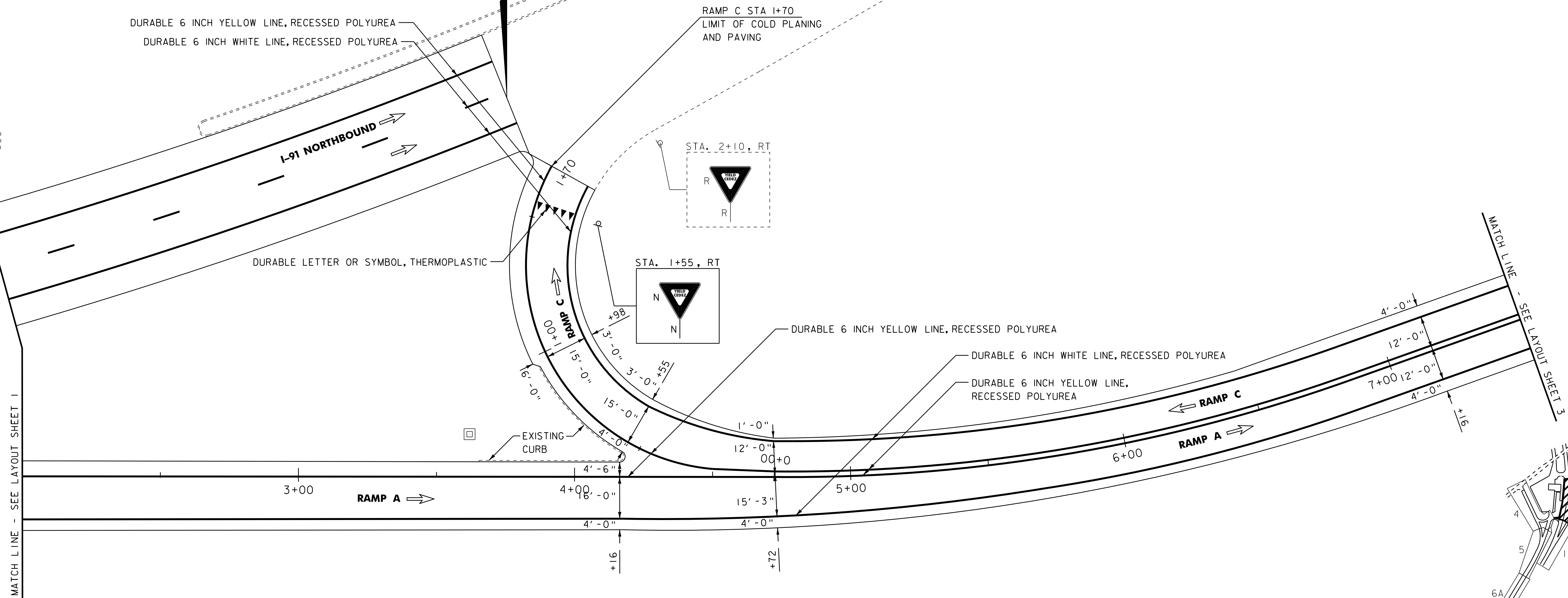
675.50 REMOVING SIGNS
 AS SHOWN - 1

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 RAMP A STA. 2+00 TO 7+50, SOLID RT
 RAMP A STA. 4+72 TO 7+50, SOLID LT
 RAMP C STA. 0+00 TO 1+70, SOLID RT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 RAMP A STA. 2+00 TO 7+50, SOLID RT
 RAMP A STA. 4+72 TO 7+50, SOLID LT
 RAMP C STA. 0+00 TO 1+70, SOLID RT

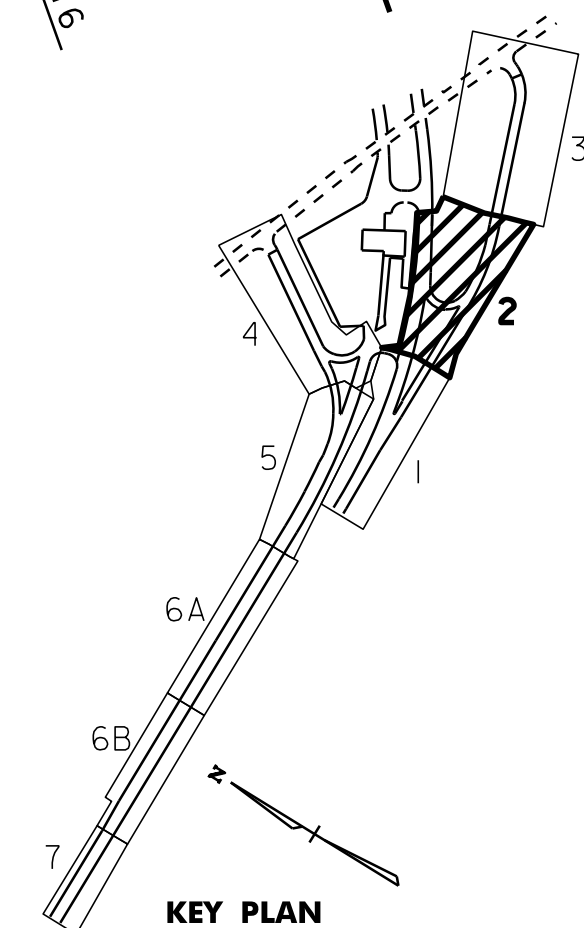
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 RAMP A STA. 2+00 TO 4+72, SOLID ☉
 RAMP A STA. 4+72 TO 7+50, DOUBLE SOLID ☉
 RAMP C STA. 0+00 TO 1+70, SOLID ☉

**END PROJECT IM 091-3(46)
 NB MM 177.279**



MATCH LINE - SEE LAYOUT SHEET 1

MATCH LINE - SEE LAYOUT SHEET 3



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



**INTERCHANGE
 29 LAYOUT
 SHEET #2**

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:26
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 43 OF 63
IPARM FILE: p06a200L02.i	

NOT TO SCALE

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 RAMP A STA. 7+50 TO 12+25, SOLID RT
 RAMP A STA. 7+50 TO 12+25, SOLID LT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 RAMP A STA. 7+50 TO 12+25, DOUBLE SOLID C

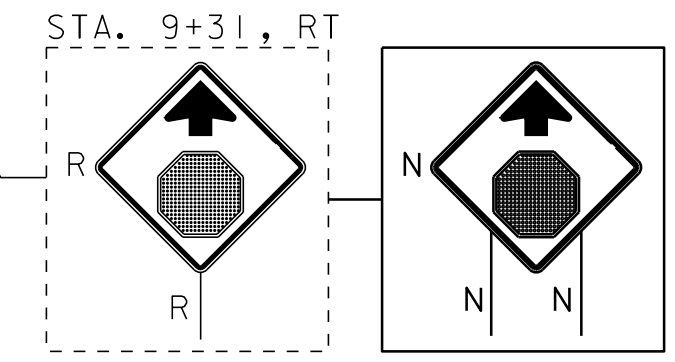
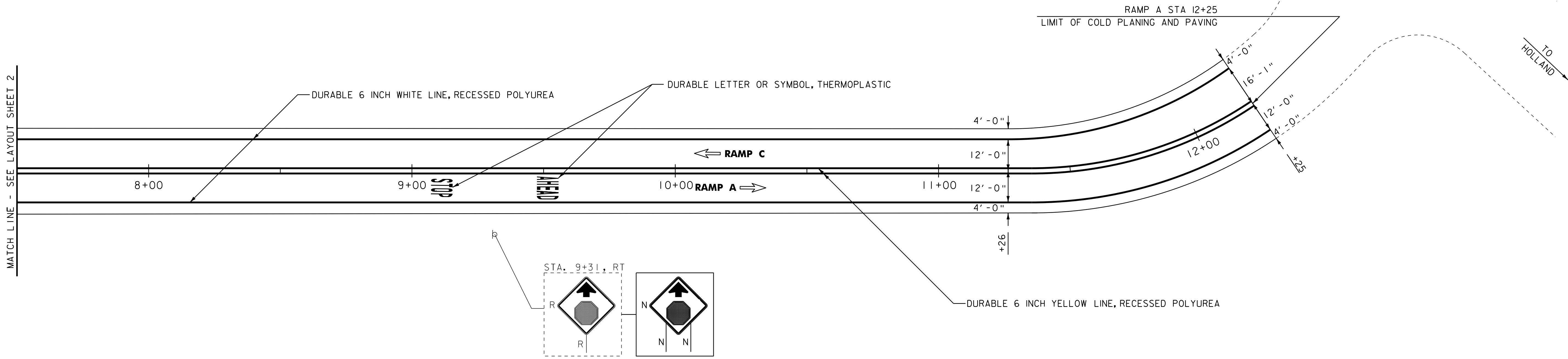
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 RAMP A STA. 9+11, RT - "STOP"
 RAMP A STA. 9+51, RT - "AHEAD"

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 RAMP A STA. 7+50 TO 12+25, SOLID RT
 RAMP A STA. 7+50 TO 12+25, SOLID LT

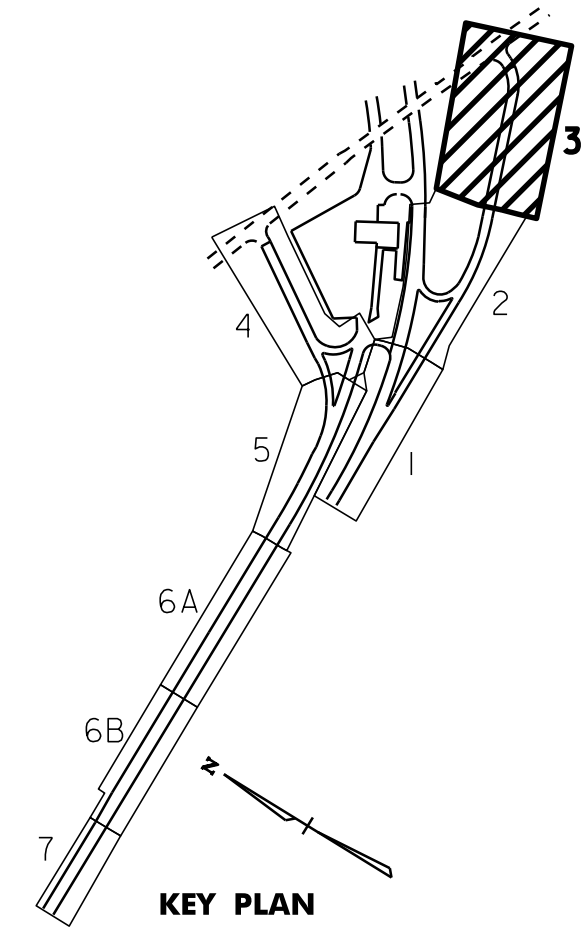
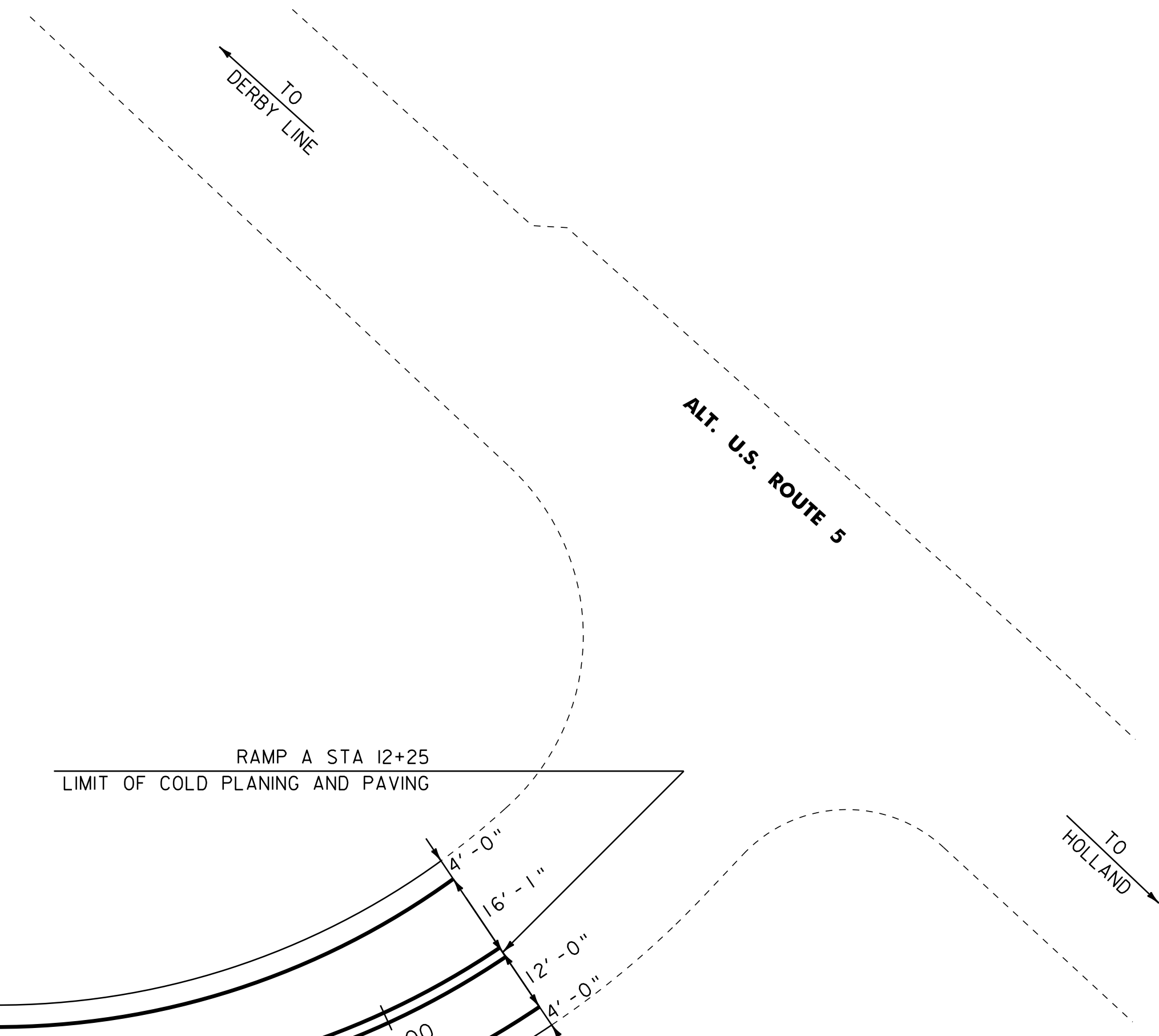
646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 RAMP A STA. 7+50 TO 12+25, DOUBLE SOLID C

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 RAMP A STA. 9+11, RT - "STOP"
 RAMP A STA. 9+51, RT - "AHEAD"

675.50 REMOVING SIGNS
 AS SHOWN - 1



MATCH LINE - SEE LAYOUT SHEET 2



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



INTERCHANGE 29 LAYOUT SHEET #3

NOT TO SCALE

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:27
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 44 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200L03.i	

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
RAMP B STA. 0+64 TO 5+50, SOLID RT
RAMP B STA. 0+64 TO 4+20, SOLID LT
RAMP D STA. 0+00 TO 1+49, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
RAMP B STA. 0+64 TO 4+20, DOUBLE SOLID ☐
RAMP B STA. 4+20 TO 5+50, SOLID ☐
RAMP D STA. 0+00 TO 1+49, SOLID ☐

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
RAMP D STA. 0+87, RT - ARROW

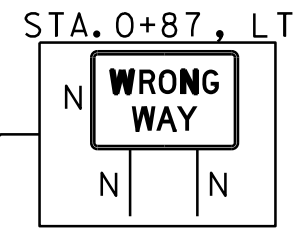
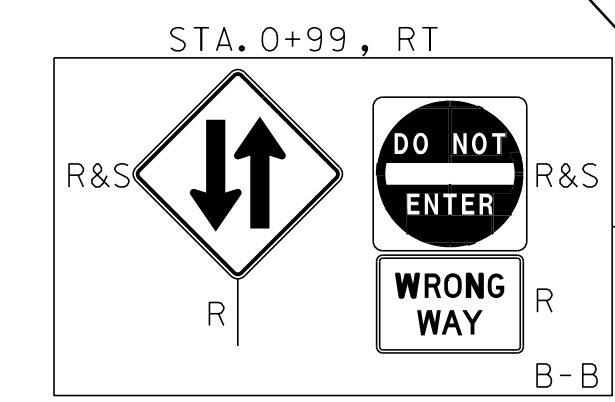
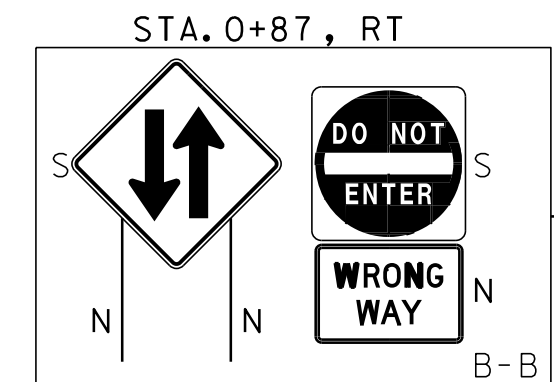
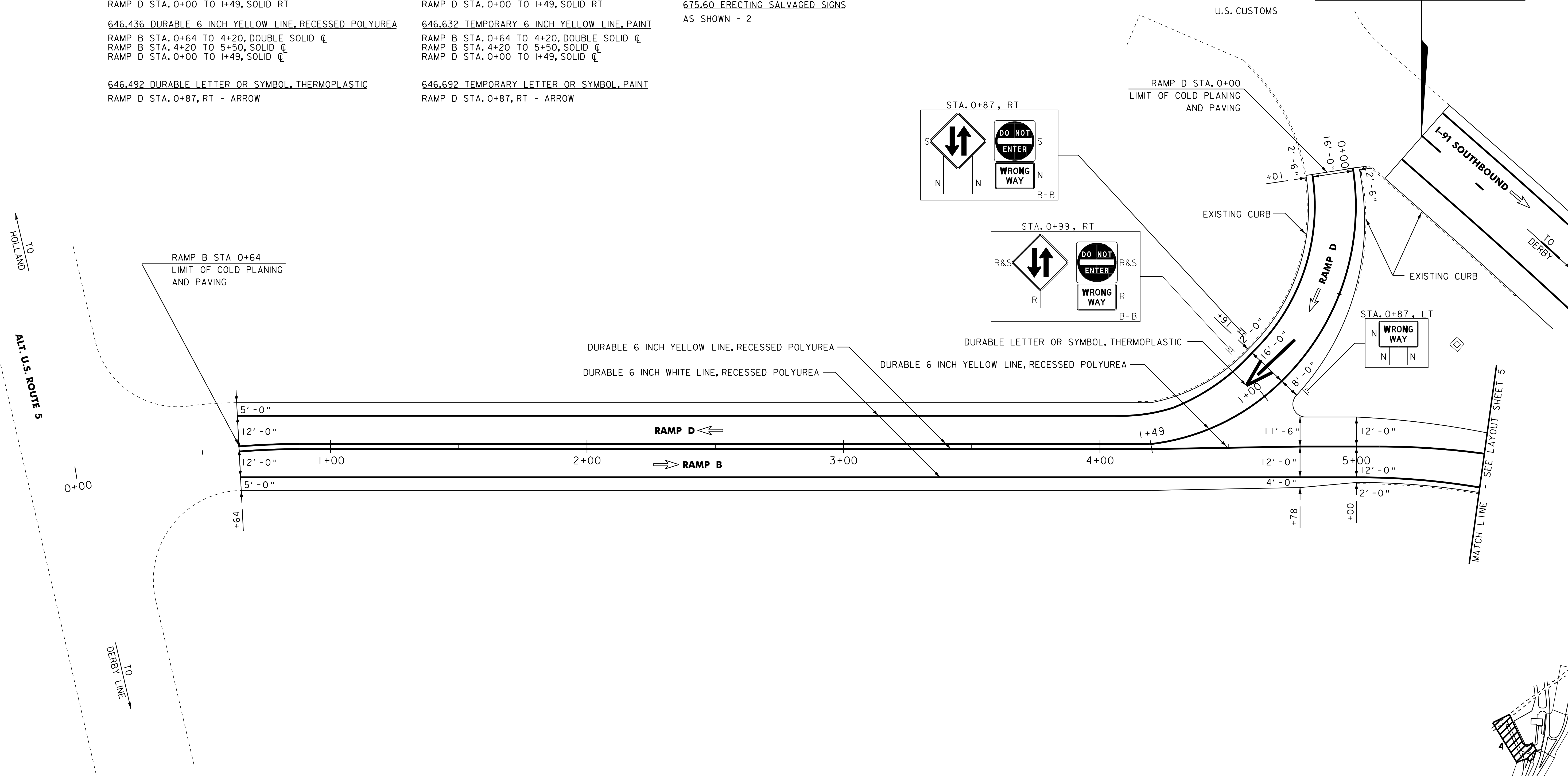
646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
RAMP B STA. 0+64 TO 5+50, SOLID RT
RAMP B STA. 0+64 TO 4+20, SOLID LT
RAMP D STA. 0+00 TO 1+49, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
RAMP B STA. 0+64 TO 4+20, DOUBLE SOLID ☐
RAMP B STA. 4+20 TO 5+50, SOLID ☐
RAMP D STA. 0+00 TO 1+49, SOLID ☐

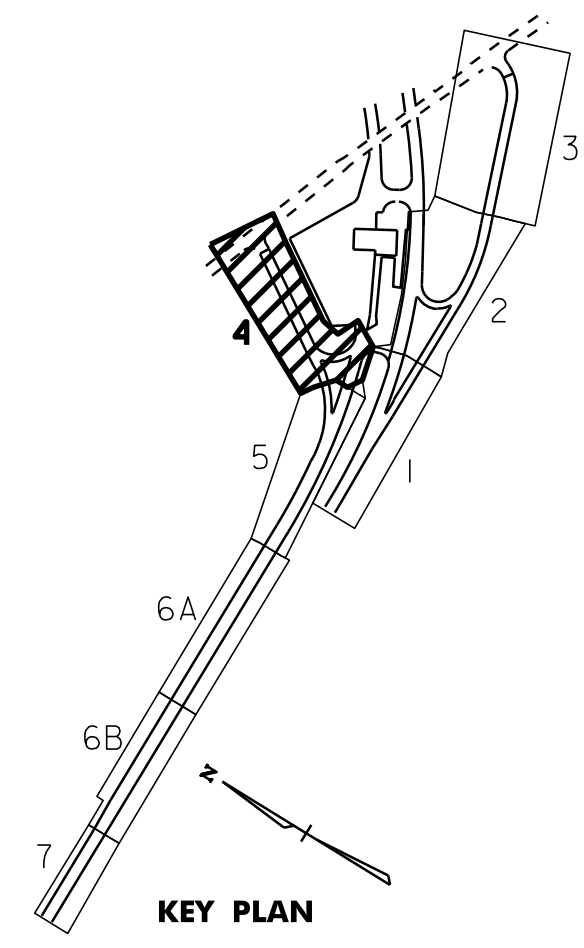
646.692 TEMPORARY LETTER OR SYMBOL, PAINT
RAMP D STA. 0+87, RT - ARROW

675.50 REMOVING SIGNS
AS SHOWN - 3

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 2



MATCH LINE - SEE LAYOUT SHEET 5



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



INTERCHANGE 29 LAYOUT SHEET #4

NOT TO SCALE

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:27
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 45 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200L04.i	

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 5+50 TO 6+51, SOLID RT

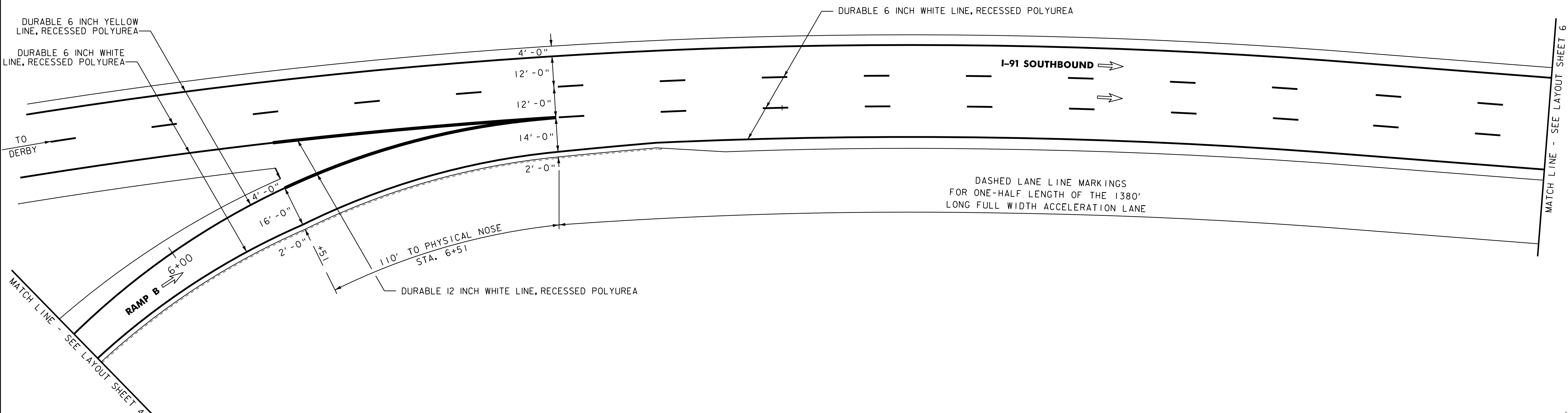
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 5+50 TO 6+51, SOLID CL

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 5+50 TO 6+51, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 5+50 TO 6+51, SOLID CL

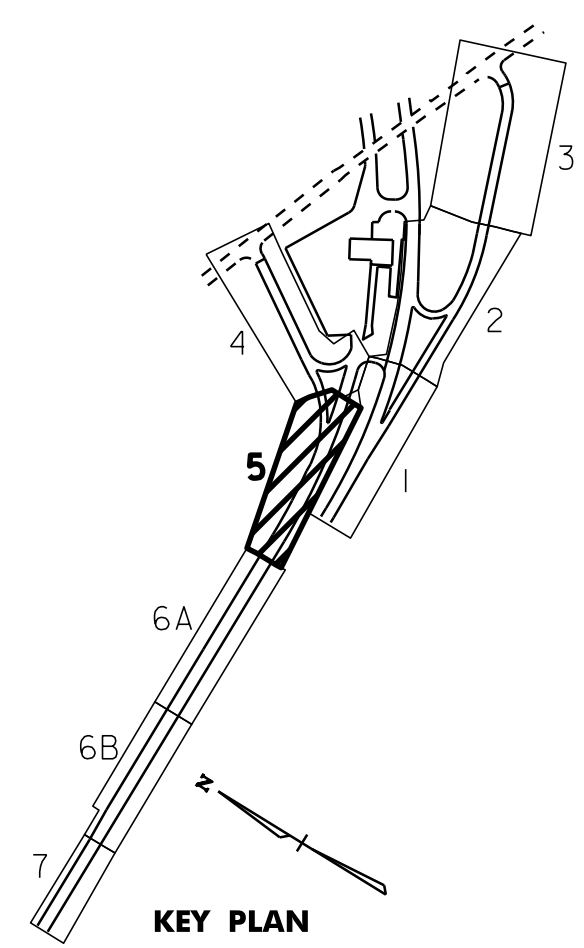
646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
RAMP B GORE - TO BE INSTALLED PER
THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
RAMP B GORE - TO BE INSTALLED PER
THE LATEST EDITION OF THE MUTCD



MATCH LINE - SEE LAYOUT SHEET 6

MATCH LINE - SEE LAYOUT SHEET 4



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

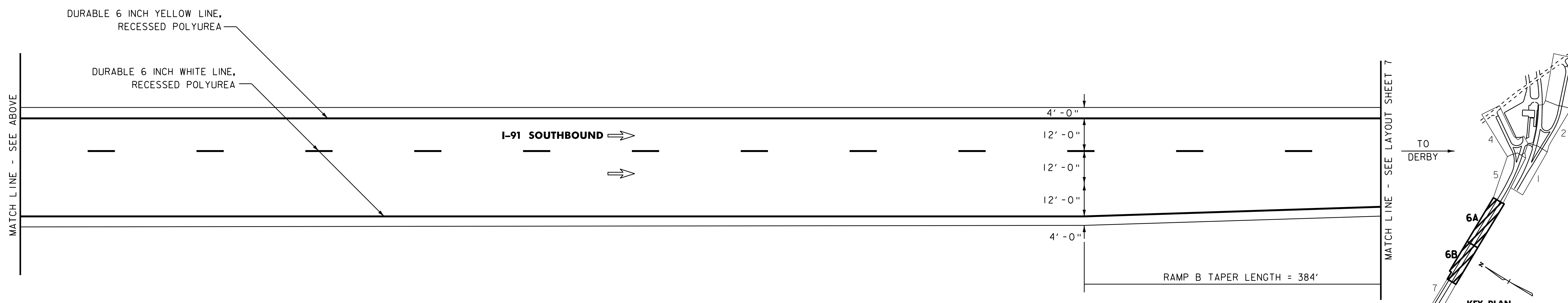
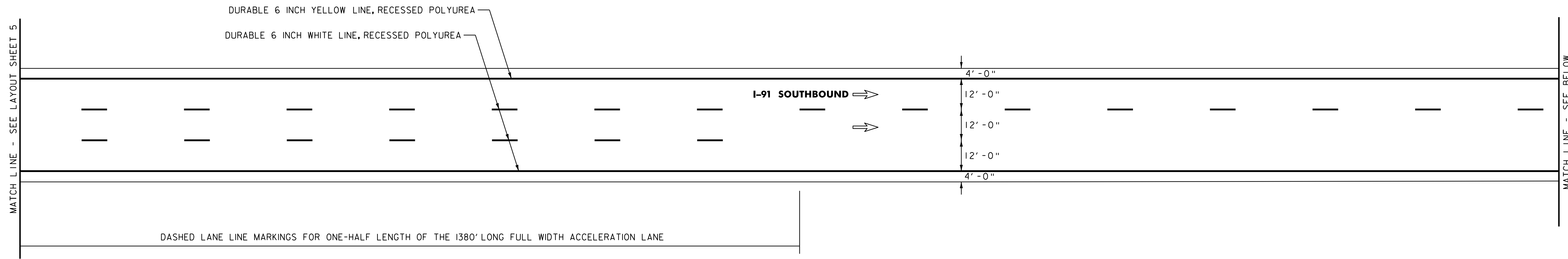
2. DIRECTION OF TRAVEL ARROW →



**INTERCHANGE
29 LAYOUT
SHEET #5**

NOT TO SCALE

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:27
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 46 OF 63
IPARM FILE: p06a200L05.i	



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW



**INTERCHANGE
29 LAYOUT
SHEET
#6A & #6B**

NOT TO SCALE

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:27
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 47 OF 63
IPARM FILE: p06a200L06.i	

MATCH LINE - SEE LAYOUT SHEET 6

DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA

I-91 SOUTHBOUND

TO DERBY

RAMP B TAPER LENGTH = 384'

NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW



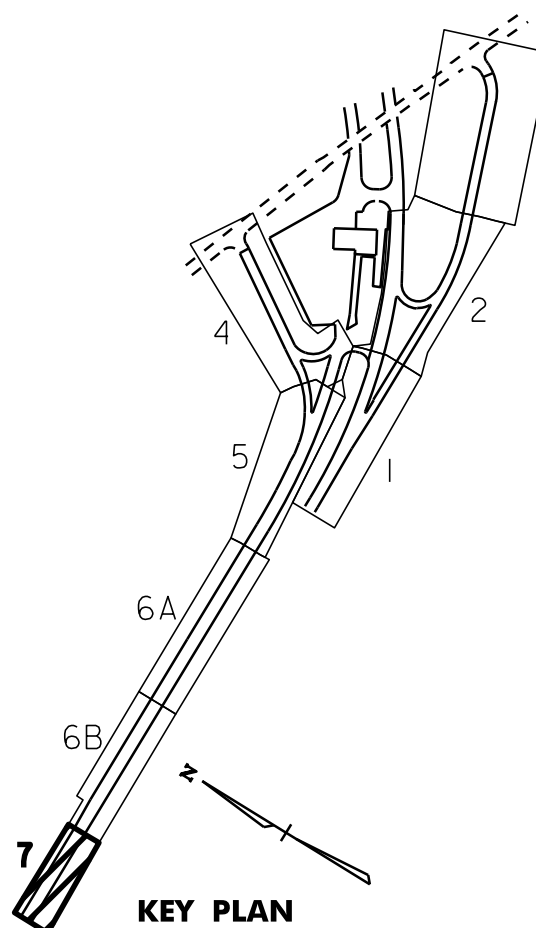
INTERCHANGE 29 LAYOUT SHEET #7

NOT TO SCALE

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

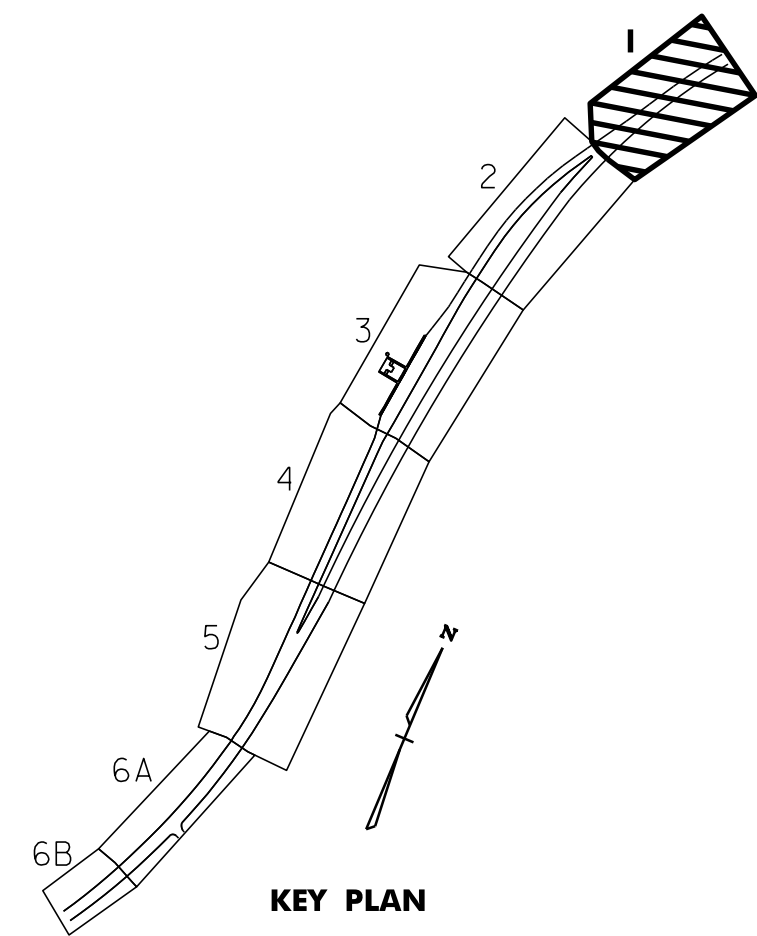
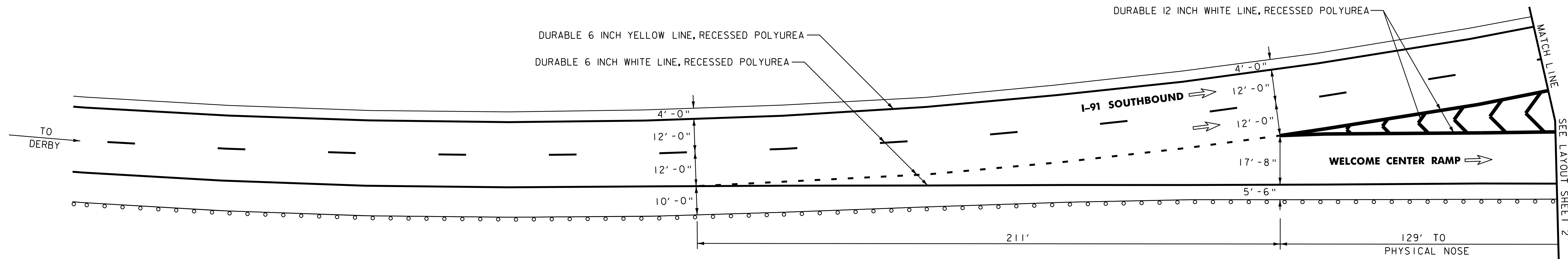
FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200L07.i

PLOT DATE: 07-SEP-2011 10:27
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 48 OF 63



646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



NOT TO SCALE

WELCOME CENTER LAYOUT SHEET #1

PROJECT NAME: DERBY
 PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p06a200L01.i

PLOT DATE: 07-SEP-2011 10:27
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 49 OF 63

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA

STA. 0+00 TO 5+50, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA

STA. 0+00 TO 5+50, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA

RAMP A GORE - TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC

STA. 1+77, Q - ARROW

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

STA. 0+00 TO 5+50, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

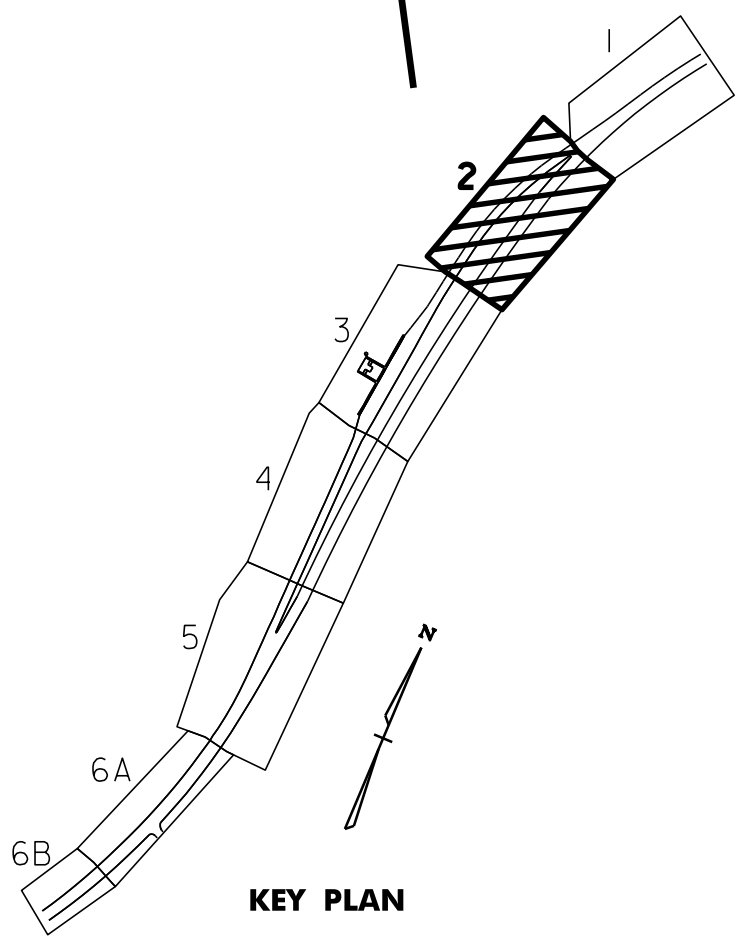
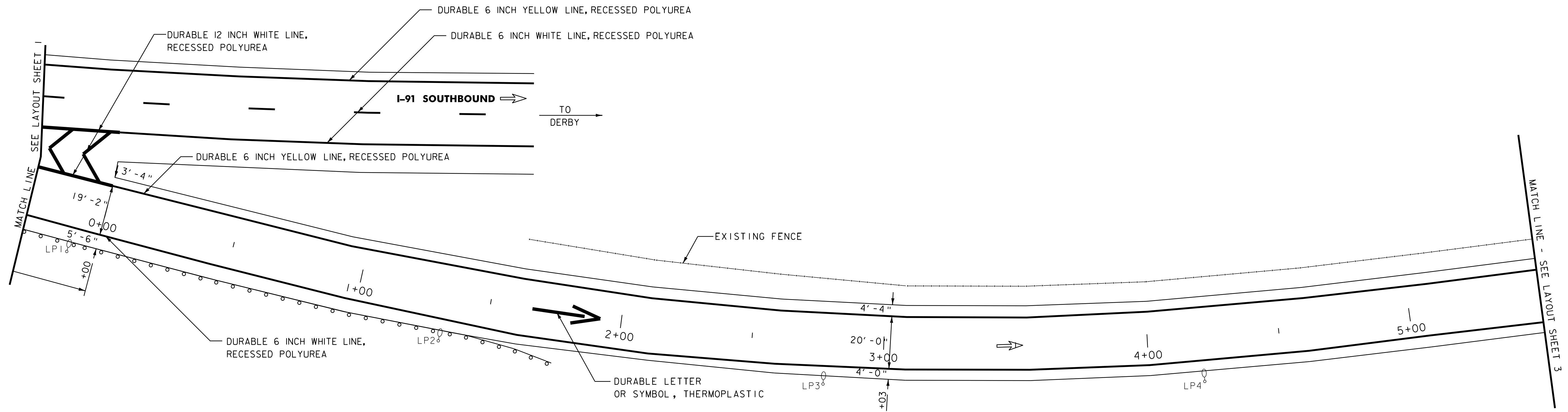
STA. 0+00 TO 5+50, SOLID LT

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP A GORE - TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.692 TEMPORARY LETTER OR SYMBOL, PAINT

STA. 1+77, Q - ARROW



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



NOT TO SCALE

**WELCOME
CENTER
LAYOUT
SHEET #2**

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200L02.i

PLOT DATE: 07-SEP-2011 10:27
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 50 OF 63

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
 STA. 8+02 TO 11+28, SOLID RT (PARKING STALLS)

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 5+50 TO 8+02, SOLID RT
 STA. 8+24 TO 11+20, SOLID LT
 STA. 11+09 TO 11+50, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 5+50 TO 8+24, SOLID LT
 STA. 11+20 TO 11+50, SOLID LT

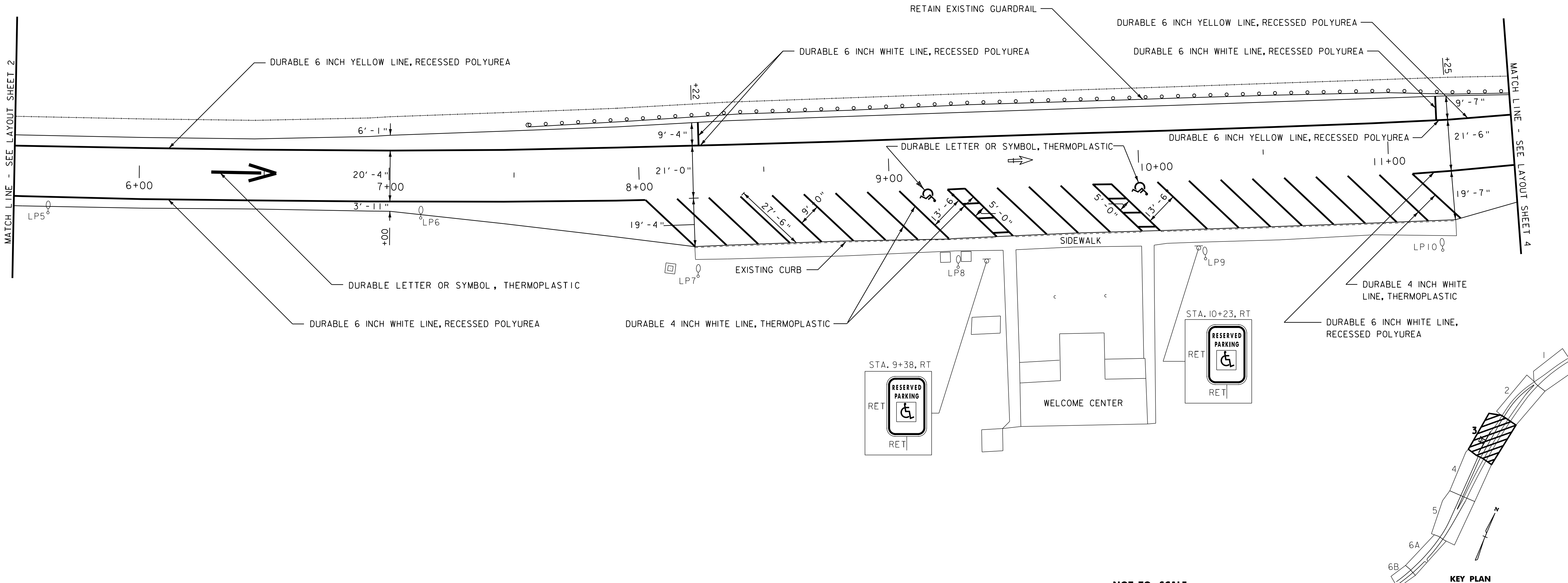
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 6+40, C - ARROW
 STA. 9+15, RT - HANDICAP SYMBOL
 STA. 10+00, RT - HANDICAP SYMBOL

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 8+02 TO 11+28, SOLID RT (PARKING STALLS)

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 5+50 TO 8+02, SOLID RT
 STA. 8+24 TO 11+20, SOLID LT
 STA. 11+09 TO 11+50, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 5+50 TO 8+24, SOLID LT
 STA. 11+20 TO 11+50, SOLID LT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 6+40, C - ARROW
 STA. 9+15, RT - HANDICAP SYMBOL
 STA. 10+00, RT - HANDICAP SYMBOL



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



WELCOME CENTER LAYOUT SHEET #3

PROJECT NAME: DERBY	FILE NAME: p06a200.dgn	PLOT DATE: 07-SEP-2011 10:27
PROJECT NUMBER: IM 091-3(46)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p06a200L03.i	SHEET 51 OF 63

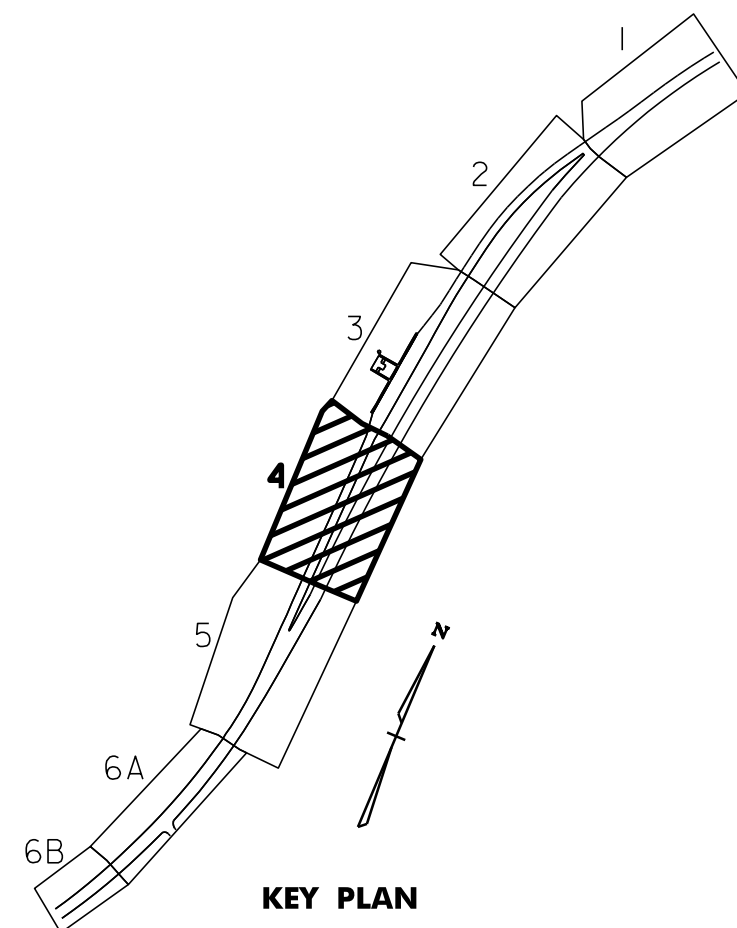
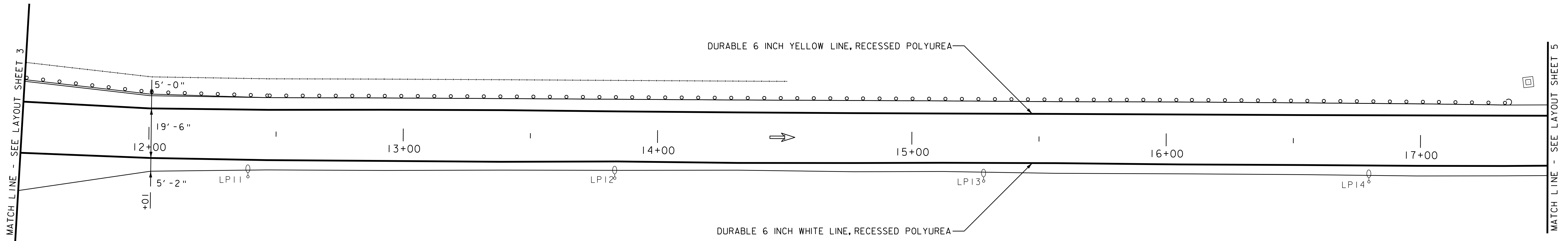
NOT TO SCALE

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
STA. 11+50 TO 17+50, SOLID RT

646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
STA. 11+50 TO 17+50, SOLID LT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
STA. 11+50 TO 17+50, SOLID RT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
STA. 11+50 TO 17+50, SOLID LT



NOTES: 1. FOR STRIPING DETAILS AT GORES,
SEE THE PAVEMENT MARKINGS
DETAIL SHEET AND THE LATEST
EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



**WELCOME
CENTER
LAYOUT
SHEET #4**

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200L04.i

PLOT DATE: 07-SEP-2011 10:28
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 52 OF 63

646.426 DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA
 STA. 17+50 TO 19+00, SOLID RT

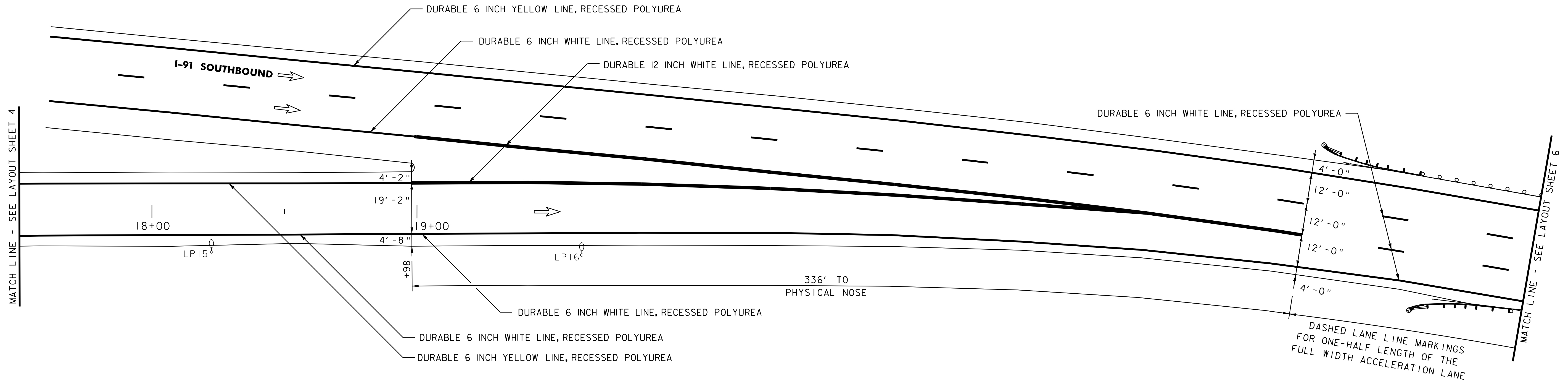
646.436 DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA
 STA. 17+50 TO 18+98, SOLID LT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
 STA. 17+50 TO 19+00, SOLID RT

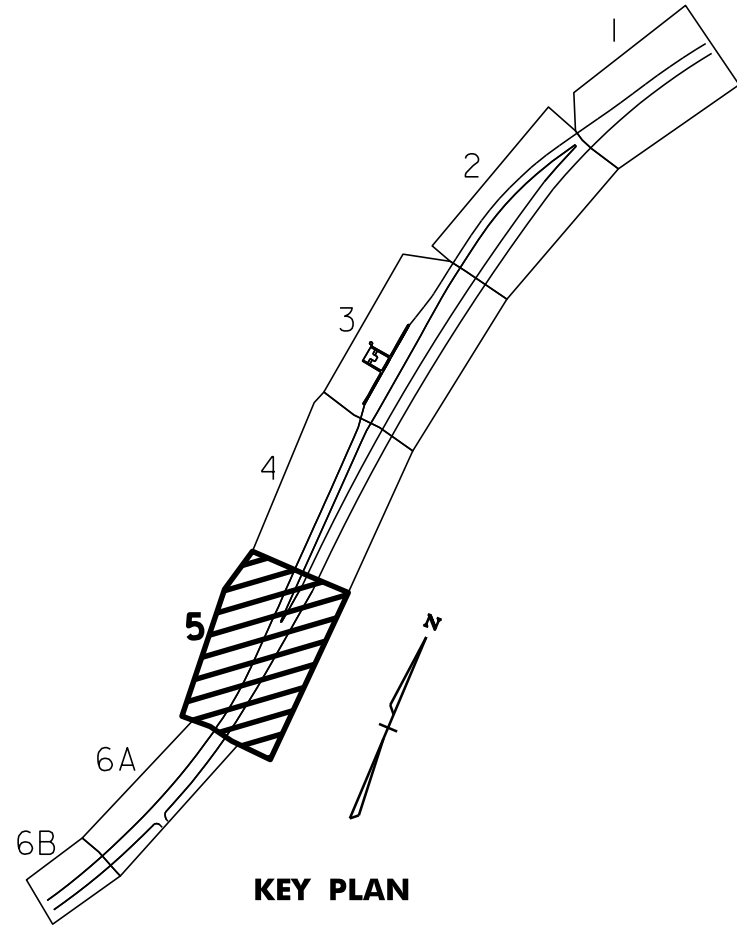
646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
 STA. 17+50 TO 18+98, SOLID LT

646.466 DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
 RAMP GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD

646.662 TEMPORARY 12 INCH WHITE LINE, PAINT
 RAMP GORE - TO BE INSTALLED PER
 THE LATEST EDITION OF THE MUTCD



DASHED LANE LINE MARKINGS
 FOR ONE-HALF LENGTH OF THE
 FULL WIDTH ACCELERATION LANE



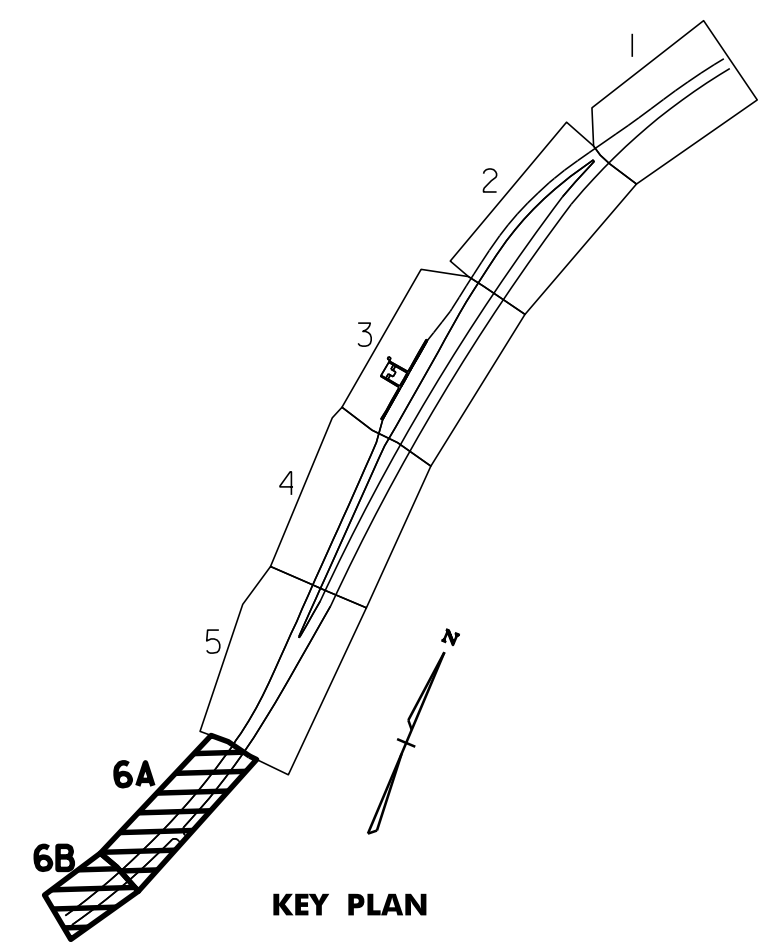
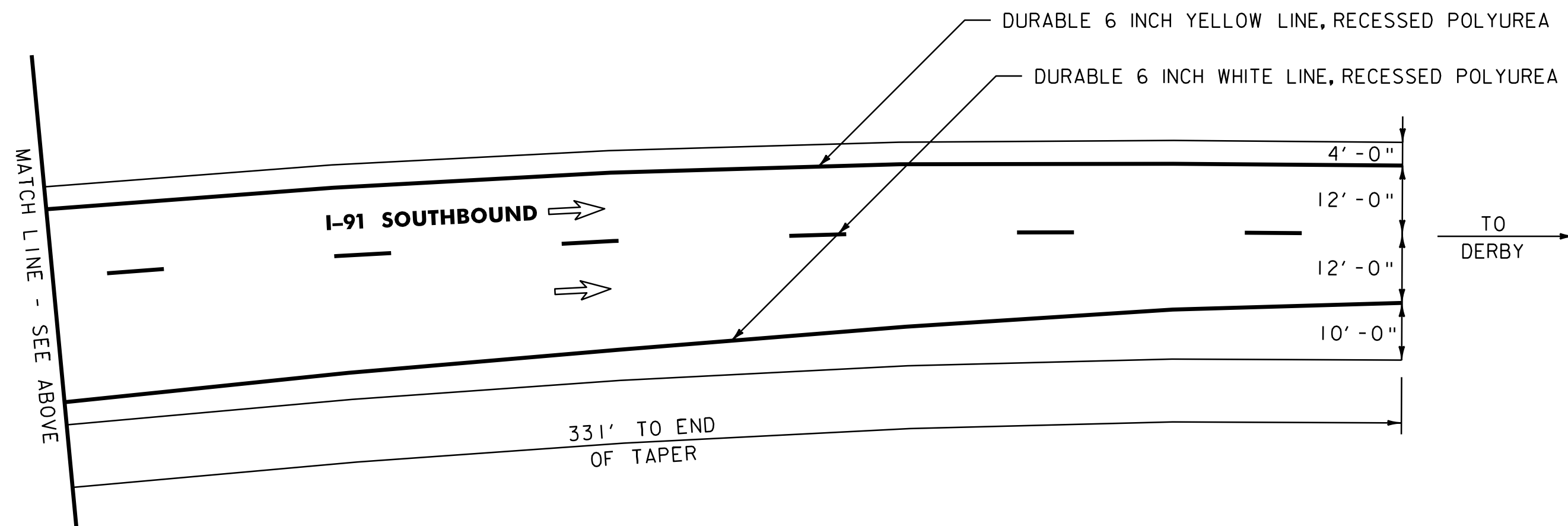
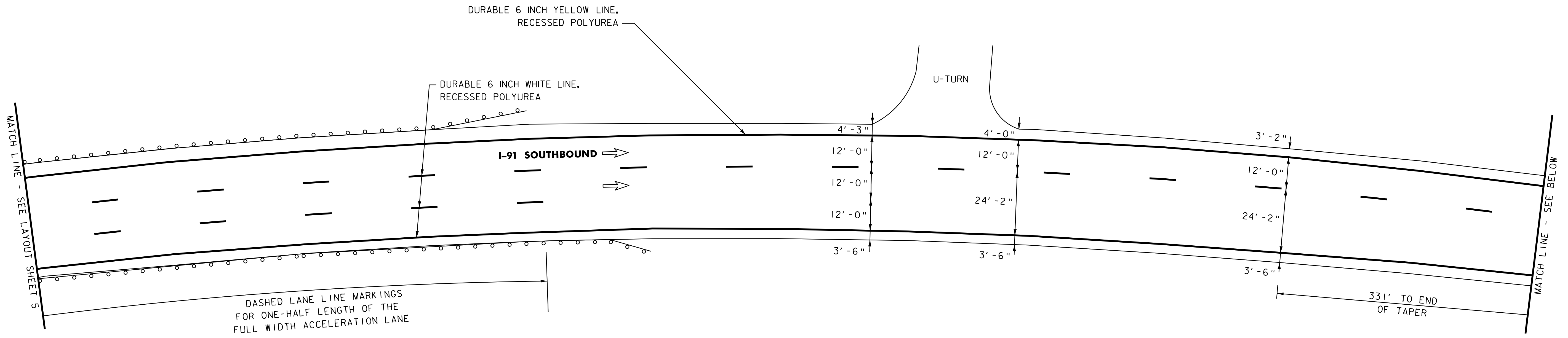
NOTES: 1. FOR STRIPING DETAILS AT GORES,
 SEE THE PAVEMENT MARKINGS
 DETAIL SHEET AND THE LATEST
 EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW →



NOT TO SCALE
**WELCOME
 CENTER
 LAYOUT
 SHEET #5**

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:28
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 53 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200L05.i	



NOTES: 1. FOR STRIPING DETAILS AT GORES, SEE THE PAVEMENT MARKINGS DETAIL SHEET AND THE LATEST EDITION OF THE MUTCD.

2. DIRECTION OF TRAVEL ARROW



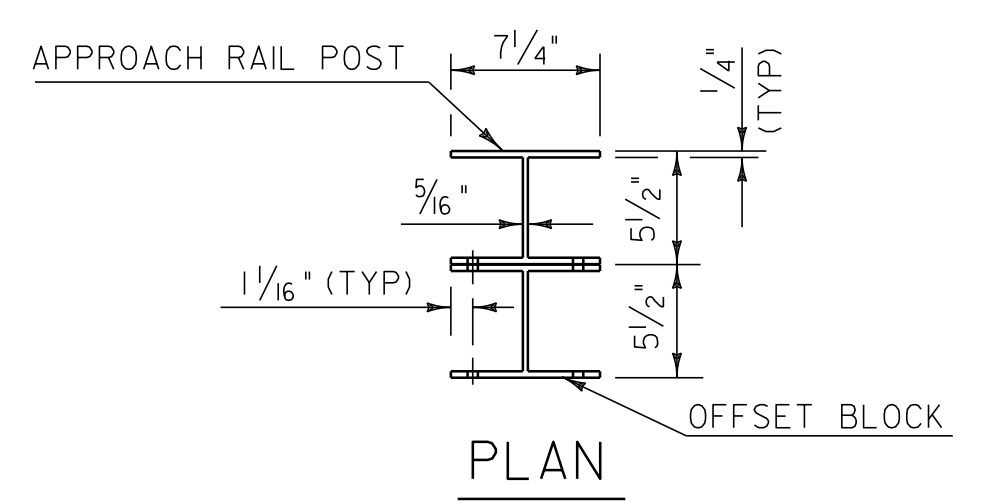
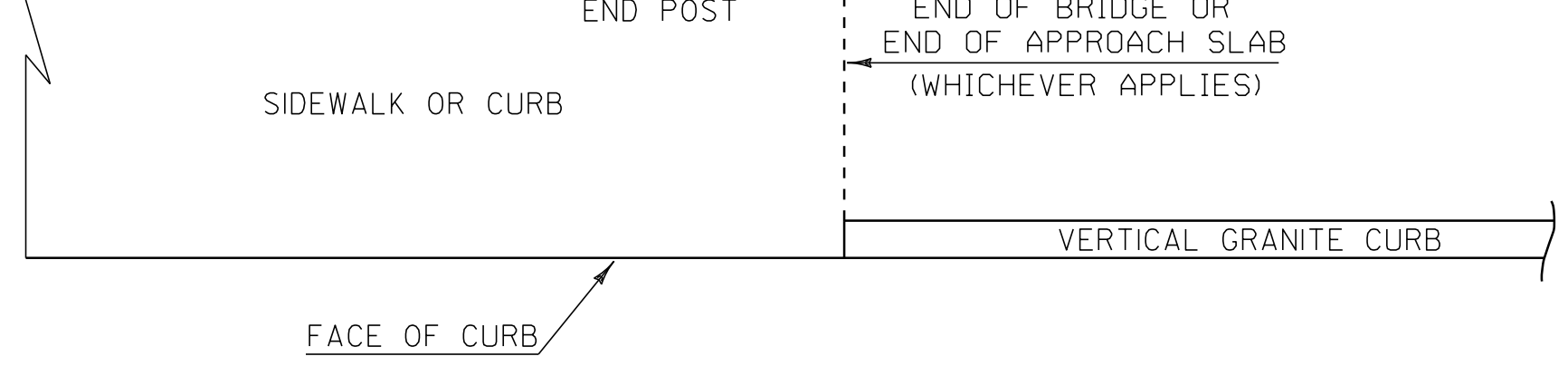
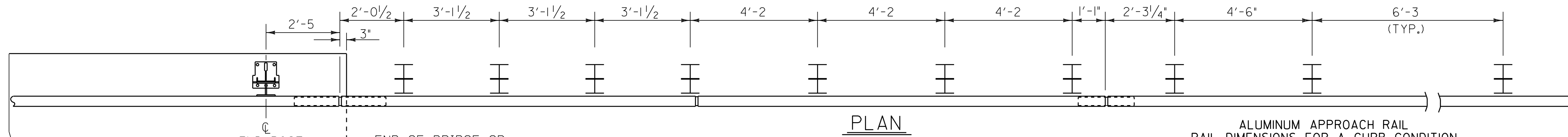
NOT TO SCALE

WELCOME CENTER LAYOUT SHEET #6A & #6B

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:28
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 54 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200L06.i	

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS													REMARKS	SIGN DETAIL																	
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)		ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER												
											1.2	2.0	3.0	1.75	2.0			2.5	3.0	4.0	4.0 MOD	FOUND-A-TION		3.0	3.5	4.0	5.0			FTG. SIZE	WEIGHT	POST SIZE									
I-91 NORTHBOUND																																									
MM 169.800, LT		I	30	30	6.25				1																SIGN ID CODE VW-000	E-153															
		I	24	18	3.00																				SIGN ID CODE W7-3a	E-152															
MM 170.400, RT		I	30	30	6.25				1																SIGN ID CODE VW-000	E-153															
		I	24	18	3.00																				SIGN ID CODE W7-3a	E-152															
MM 172.200, LT		I	30	30	6.25				1																SIGN ID CODE VW-000	E-153															
		I	24	18	3.00																				SIGN ID CODE W7-3a	E-152															
EXIT 29 RAMP A STA. 1+16, LT		I	36	24	6.00				2																SIGN ID CODE R5-1A	SEE FHWA PLANS															
EXIT 29 RAMP A STA. 1+16, RT		I	36	24	6.00				2																SIGN ID CODE R5-1A MOUNT BACK TO BACK WITH WARNING SIGNS ON RETAINED POSTS	SEE FHWA PLANS															
EXIT 29 RAMP A STA. 9+31, RT		I	48	48	16.00				2																SIGN ID CODE W3-1	SEE FHWA PLANS															
EXIT 29 RAMP C STA. 1+55, RT		I	48	42	7.00				2																SIGN ID CODE RI-2	SEE FHWA PLANS															
EXIT 29 RAMP D STA. 0+87, LT		I	36	24	6.00				2																SIGN ID CODE R5-1A	SEE FHWA PLANS															
EXIT 29 RAMP D STA. 0+87, RT	 	I	36	24	6.00				2																SIGN ID CODE R5-1A MOUNT BELOW SALVAGED DO NOT ENTER SIGN ON TWO NEW POSTS	SEE FHWA PLANS															
SUBTOTAL ROUNDING					74.75 0.25																																				
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."										FT	FT	FT	FT	FT	FT	EA	LB	LB	LB	LB	EA.	LB	EA.	EA.	LB																
TOTALS		SF	SF	EA.	SF					FT	FT	EA	LB	EA.	LB	EA.	EA.	LB																							
		75		2						200																															
																				PROJECT NAME: DERBY PROJECT NUMBER: IM 091-3(46)																					
		FILE NAME: p06a200.dgn PROJECT LEADER: JLL DESIGNED BY: STANTEC IPARM FILE: p06a200tss01.i																		PLOT DATE: 07-SEP-2011 10:28 DRAWN BY: STANTEC CHECKED BY: JLL SHEET 55 OF 63																					

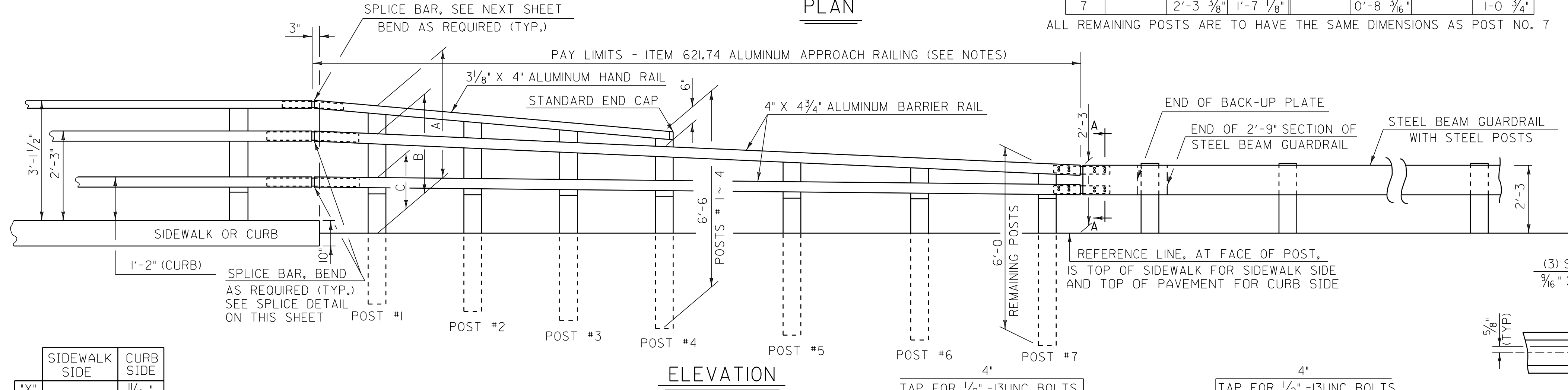
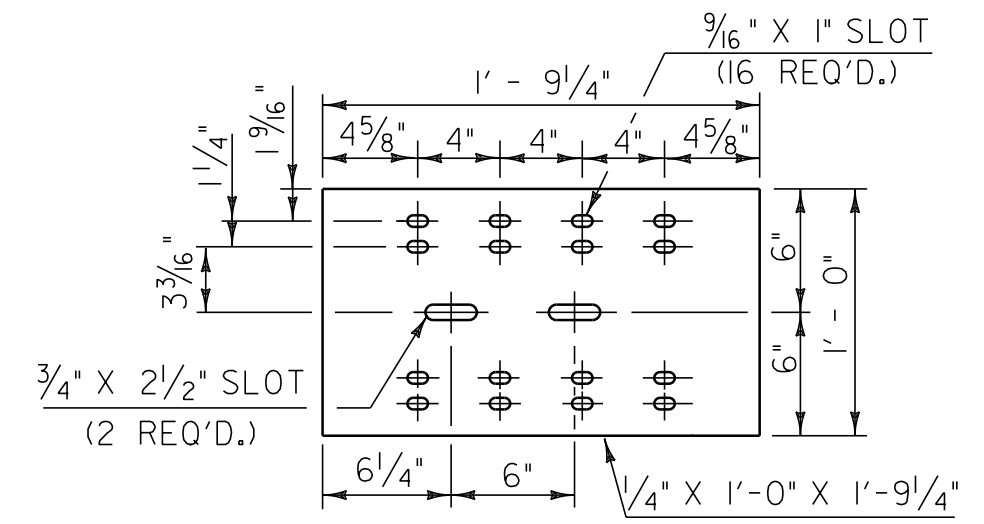


**ALUMINUM APPROACH RAIL
RAIL DIMENSIONS FOR A CURB CONDITION**

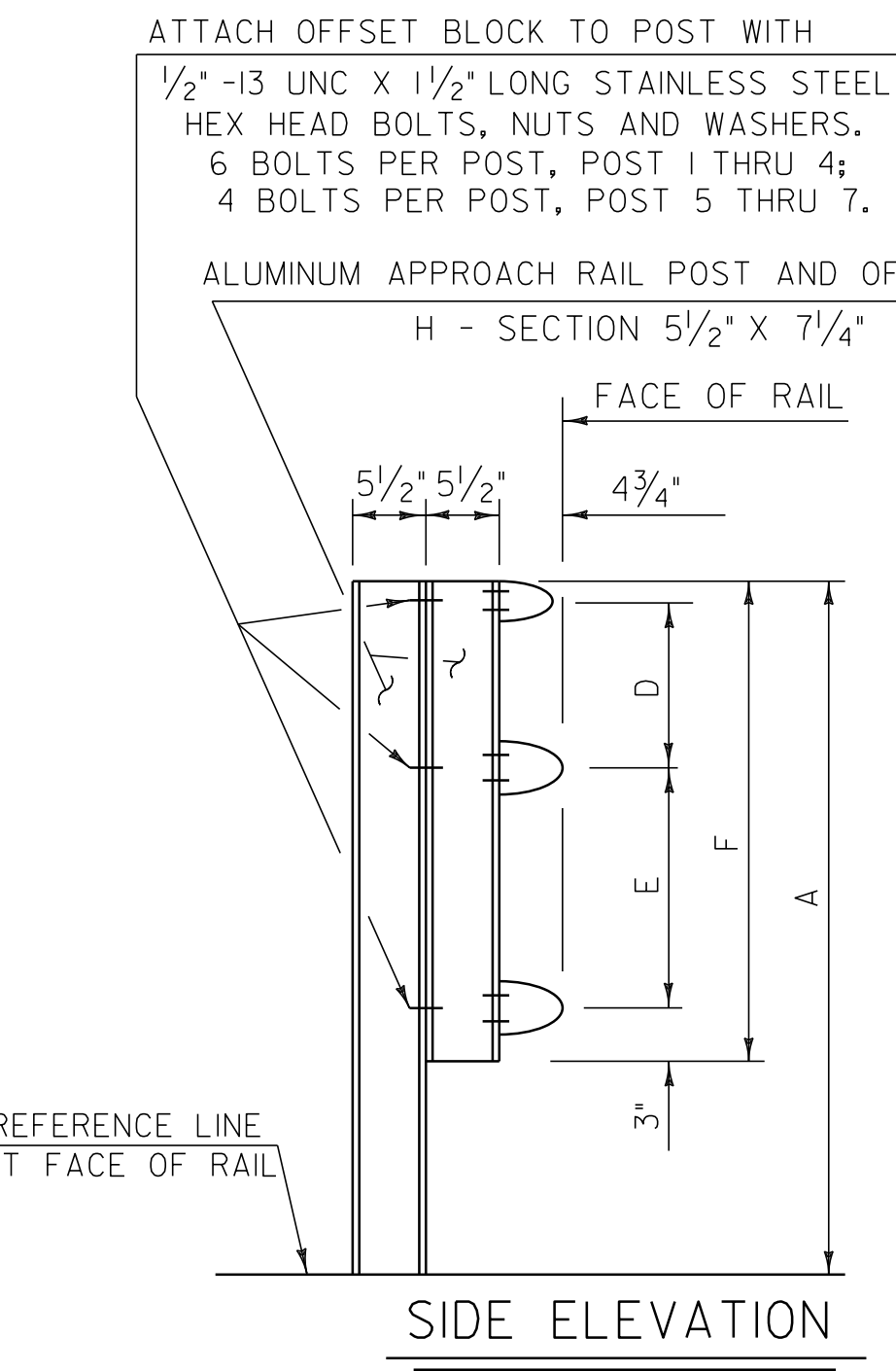
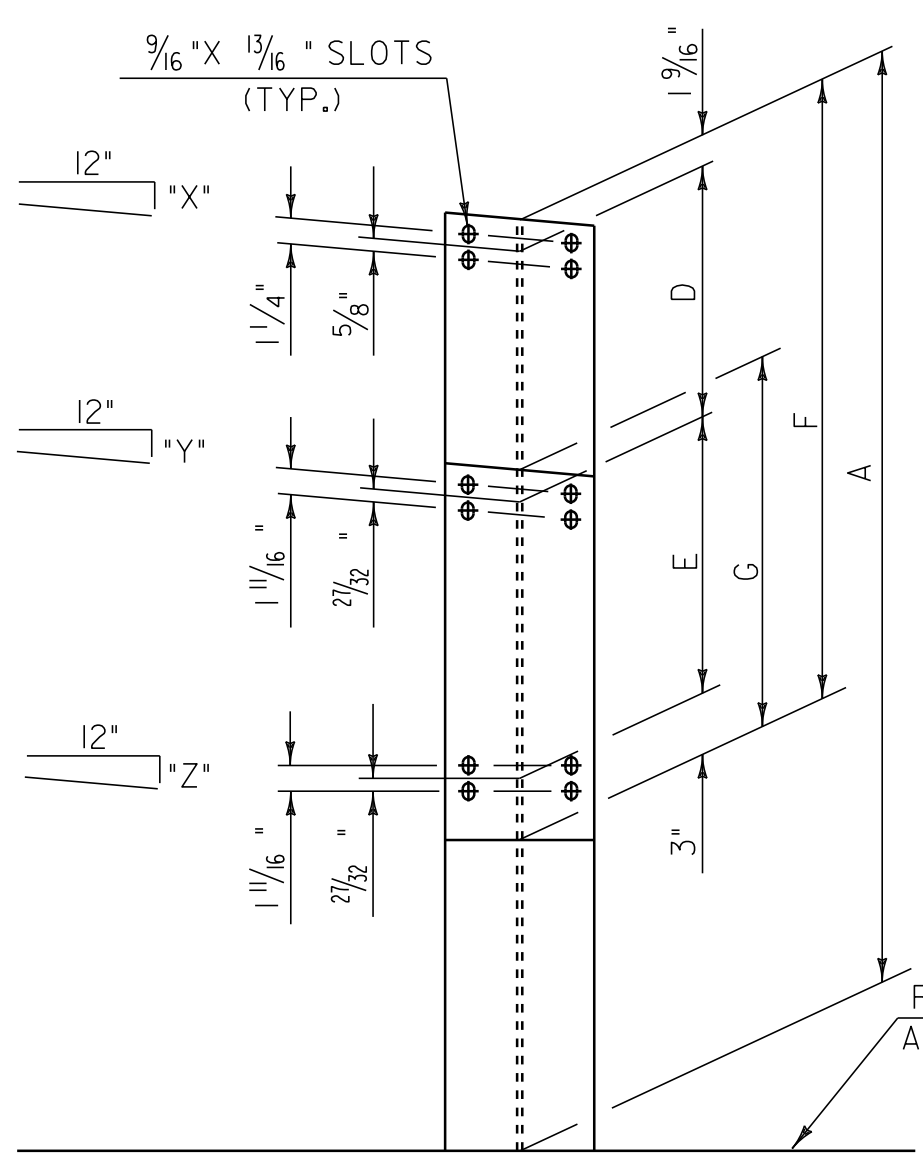
POST NO.	RAIL HEIGHT DIMENSIONS			OFFSET BLOCK DIMENSIONS			
	A	B	C	D	E	F	G
1	3'-8 1/16"	2'-10 3/8"	1'-9 3/4"	0'-9 1/16"	1'-0 9/16"	2'-2 7/8"	
2	3'-5 13/16"	2'-9 3/8"	1'-9 3/8"	0'-8 7/16"	0'-11 5/16"	2'-1"	
3	3'-3 3/16"	2'-8 3/8"	1'-9"	0'-7 1/4"	0'-11 3/16"	1'-11 1/8"	
4	3'-1 3/8"	2'-7 3/8"	1'-8 5/8"	0'-6"	0'-10 1/16"	1'-9 1/4"	
5		2'-6"	1'-8 1/8"		0'-9 7/8"		1'-2 7/16"
6		2'-4 11/16"	1'-7 5/8"		0'-9 1/16"		1'-1 5/8"
7		2'-3 3/8"	1'-7 1/8"		0'-8 3/16"		1-0 3/4"

ALL REMAINING POSTS ARE TO HAVE THE SAME DIMENSIONS AS POST NO. 7

- NOTES**
- POST 1 THROUGH 7 SHALL BE EXTRUDED ALUMINUM.
 - ALL STRUCTURAL STEEL SHALL BE AASHTO M270M/M270 GRADE 36 GALVANIZED AFTER FABRICATION.
 - ALL ITEMS NOT OTHERWISE INDICATED SHALL MEET THE SPECIFICATION REQUIREMENTS OF THE STANDARD SHEETS ON WHICH THEY ARE DETAILED.
 - SEE STANDARD G-1 FOR STEEL BEAM GUARDRAIL DETAILS. SEE THIS SHEET AND THE NEXT SHEET FOR ALUMINUM BRIDGE RAILING DETAILS.
 - THE COST OF ALL MATERIALS AND LABOR FOR THE SPLICE BETWEEN THE ALUMINUM APPROACH RAILING AND THE STEEL BEAM GUARDRAIL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 621.74, ALUMINUM APPROACH RAILING.
 - DETAILS ARE SHOWN FOR TRANSITION TO A 3 RAIL ALUMINUM BRIDGE RAILING.
 - DIMENSIONS SHOWN ARE FROM A REFERENCE LINE AT THE FACE OF POST FOR A NORMAL CROWNED SECTION. APPROPRIATE CORRECTIONS SHALL BE MADE FOR CROSS SLOPES OTHER THAN A NORMAL SECTION.



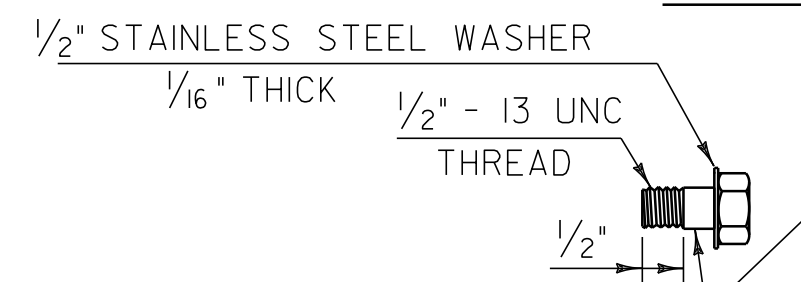
SIDEWALK SIDE	CURB SIDE
"X"	1 1/16"
"Y"	5/16"
"Z"	1/8"



APPROACH RAIL DETAILS

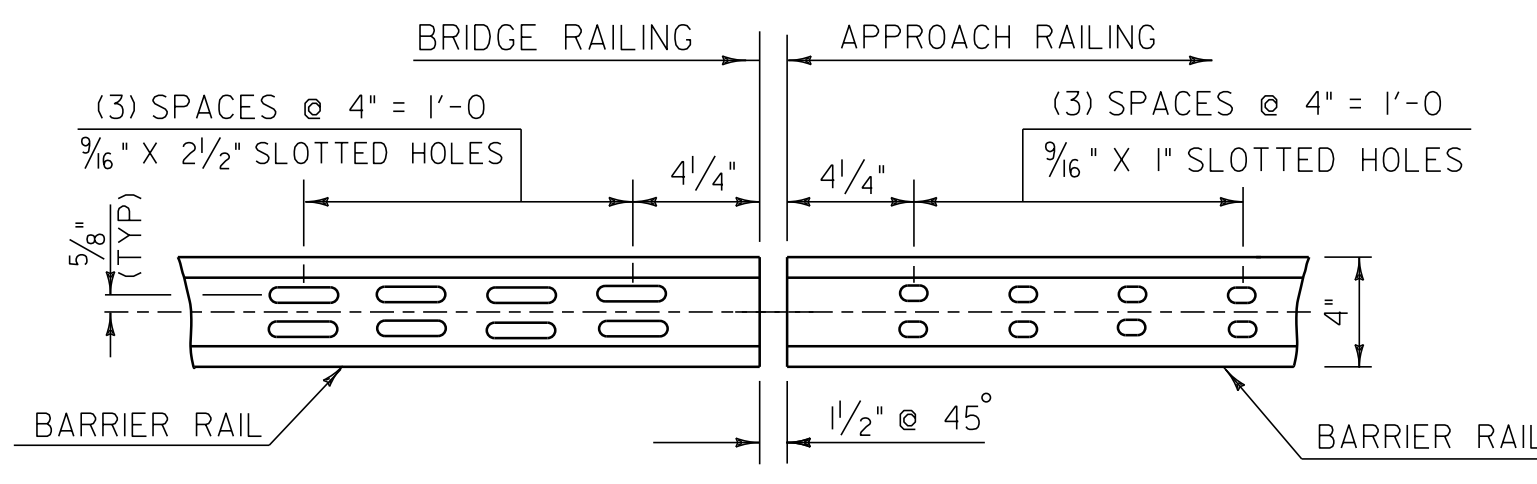
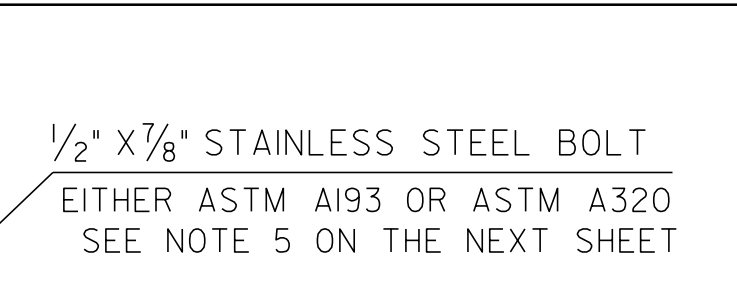
ATTACH OFFSET BLOCK TO POST WITH 1/2" -13 UNC X 1 1/2" LONG STAINLESS STEEL HEX HEAD BOLTS, NUTS AND WASHERS. 6 BOLTS PER POST, POST 1 THRU 4; 4 BOLTS PER POST, POST 5 THRU 7.

ALUMINUM APPROACH RAIL POST AND OFFSET BLOCK H - SECTION 5 1/2" X 7 1/4"

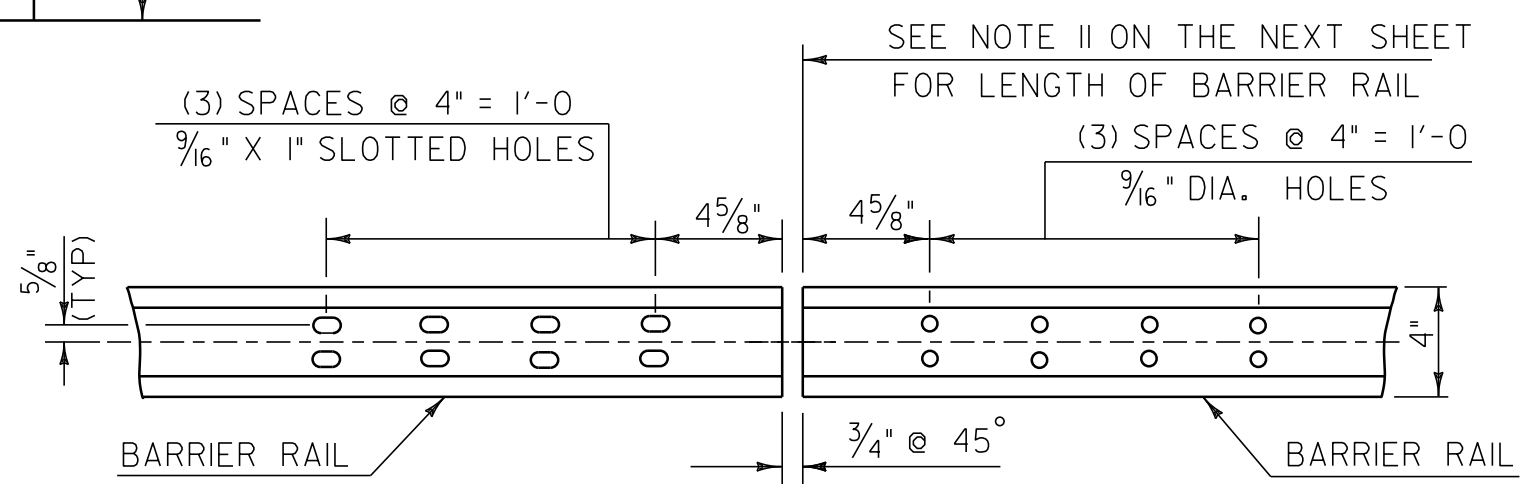


STAINLESS STEEL BOLT DETAILS

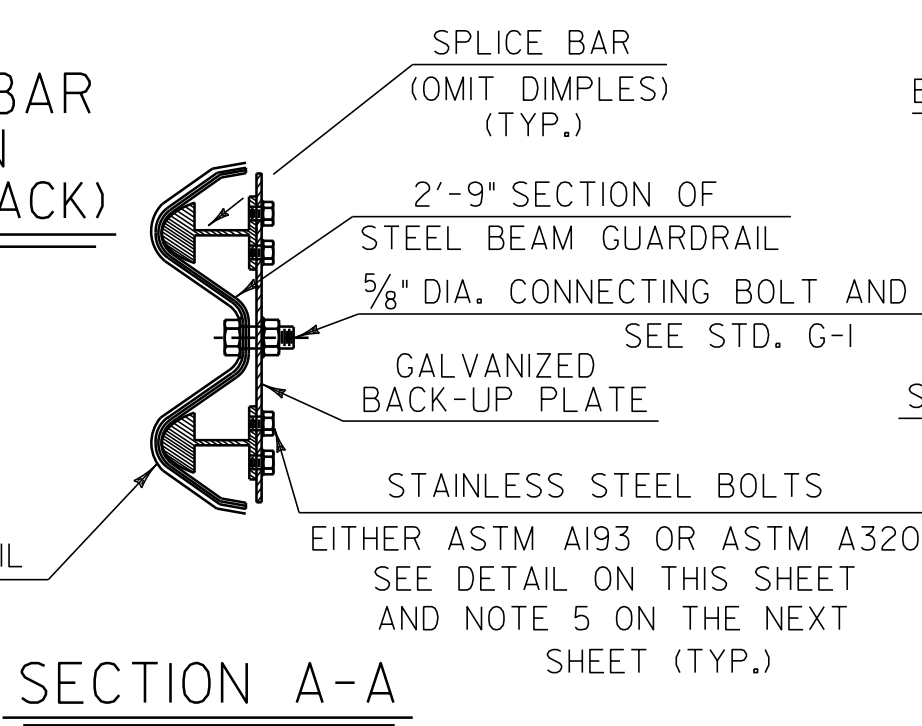
ELEVATION OF BARRIER RAIL SPLICE BAR TO BE USED AT TRANSITION BETWEEN APPROACH RAIL & GUARDRAIL (FROM BACK)



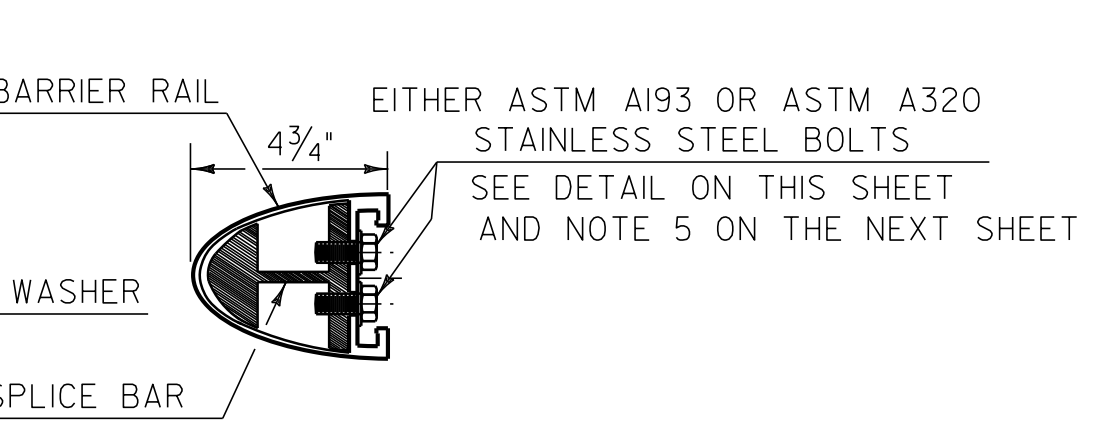
ELEVATION OF BARRIER RAIL (FROM BACK)



ELEVATION OF BARRIER RAIL (FROM BACK) AT ALL INTERMEDIATE RAIL SPLICES



SECTION A-A



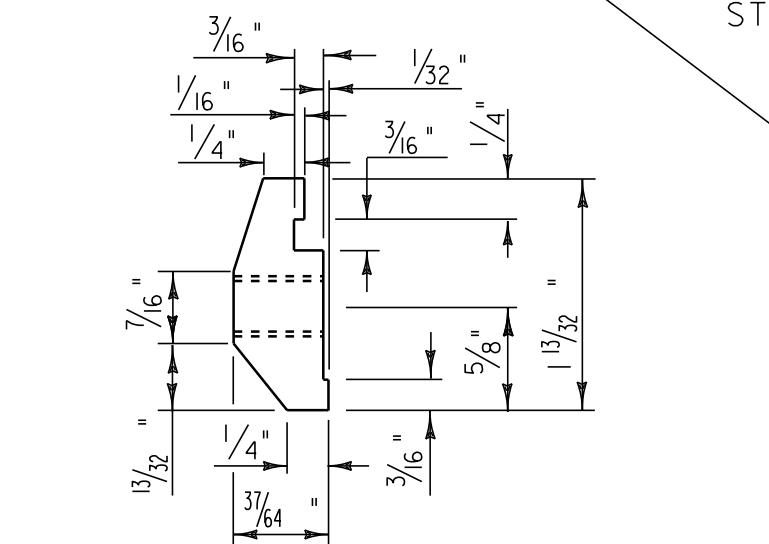
TYPICAL SECTION THROUGH BARRIER RAIL SPLICE

BRIDGE 100N, 113N, 110S AND 113S

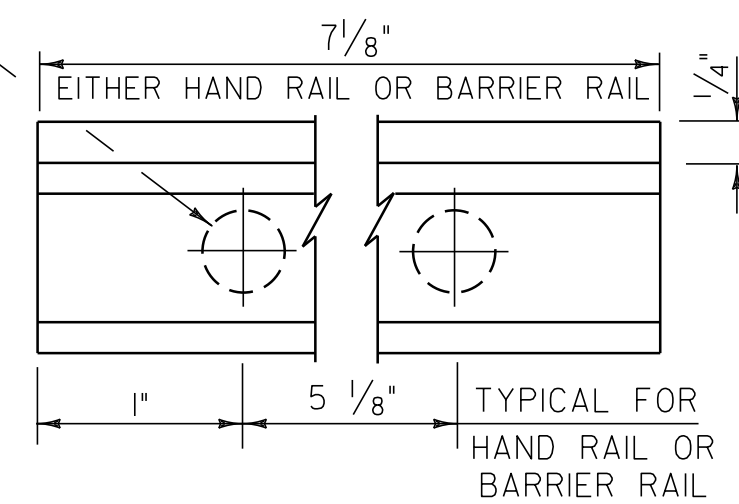
**ALUMINUM
APPROACH
RAILING DETAIL
SHEET 1**

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2010 10:28
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 56 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200aard1.i	

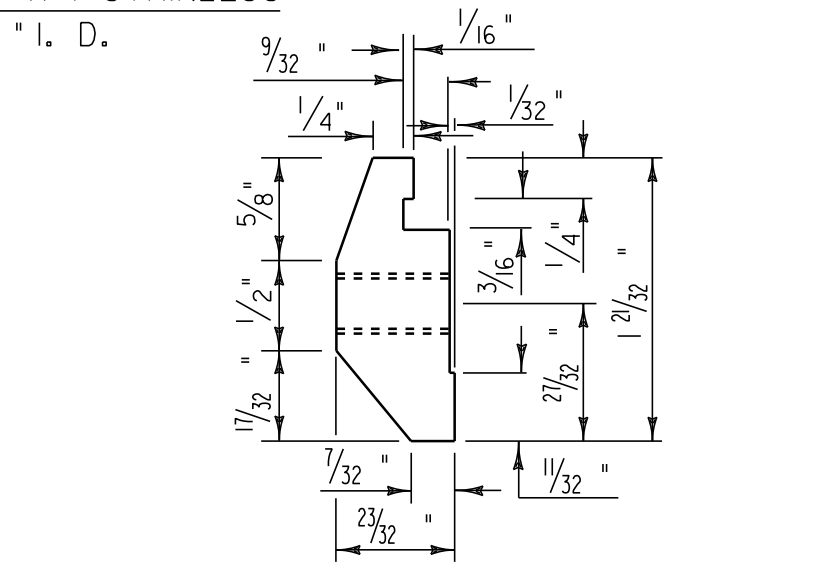
(2) 1/2" - 13 UNC THREADED HOLES FOR (2) 1/2" - 13 UNC X 1" STAINLESS STEEL HEX HEAD BOLTS WITH 1/16" O. D. X 1/32" I. D. X 3/32" THICK ALUMINUM WASHERS.



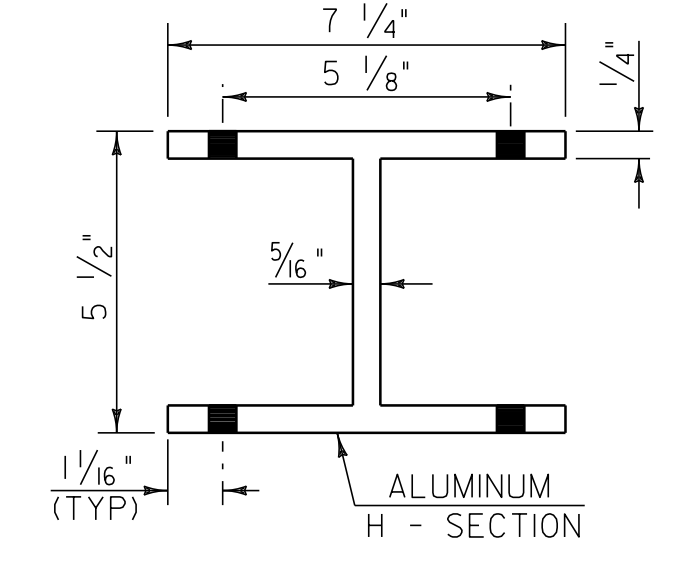
POST CONNECTION
HAND RAIL SECTION



POST CONNECTION
ELEVATION

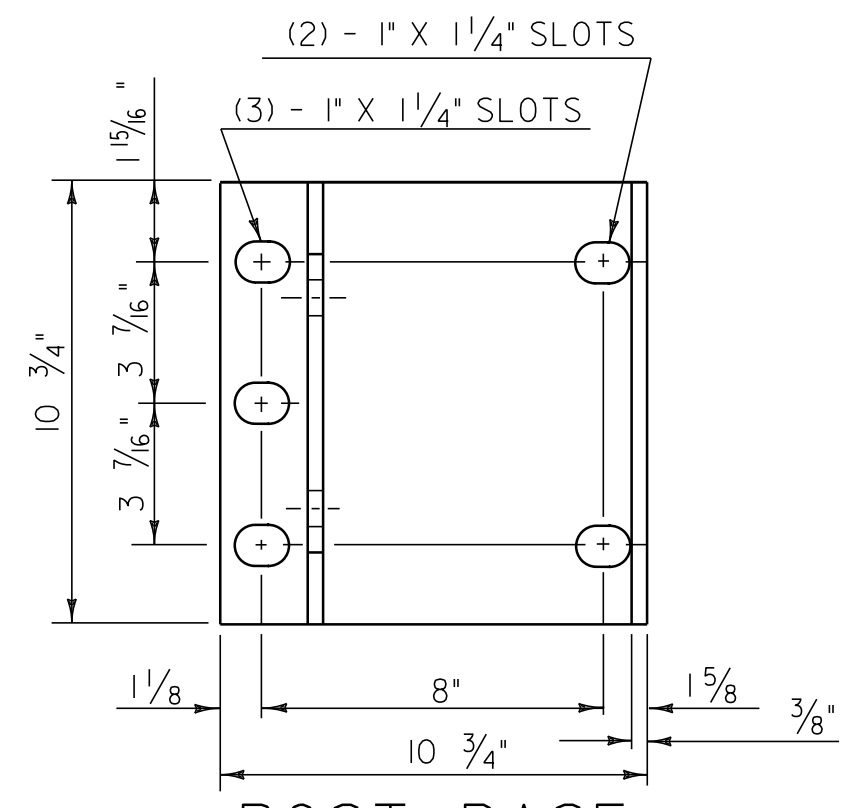


POST CONNECTION
BARRIER RAIL SECTION

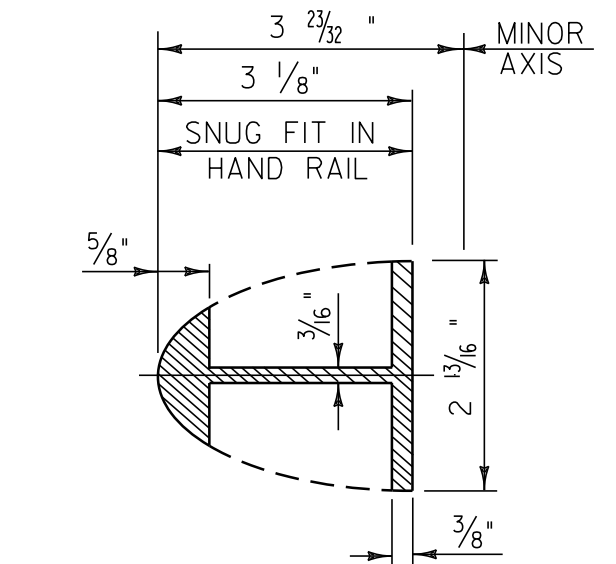


PLAN VIEW OF
OFFSET BLOCK

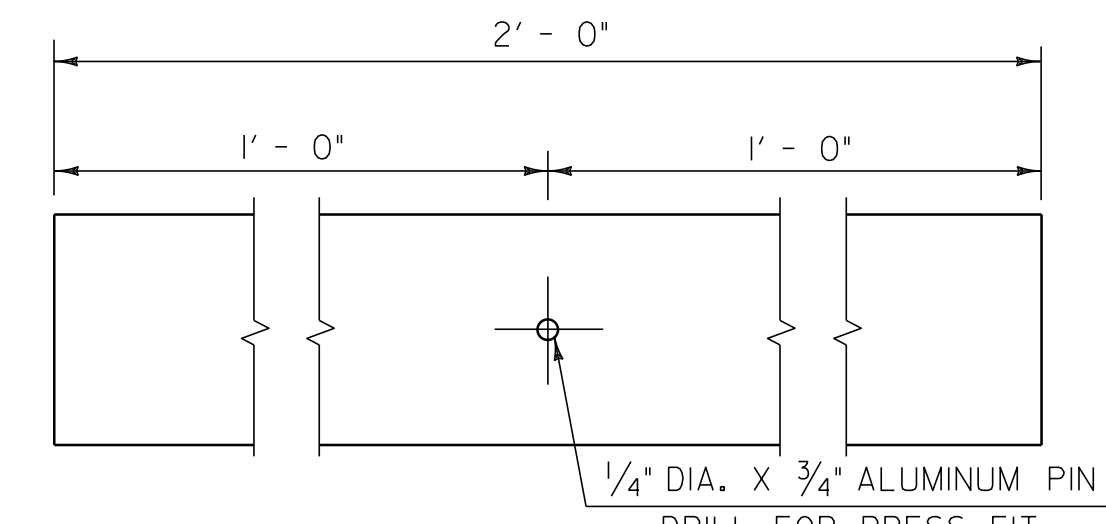
(TO BE USED ON
SUPERSTRUCTURE
ON CURB SIDE)



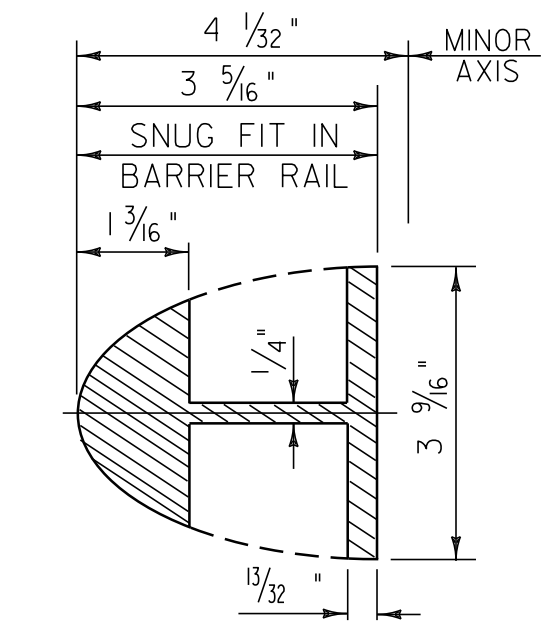
POST BASE
PLAN



HAND RAIL
SPLICE SECTION

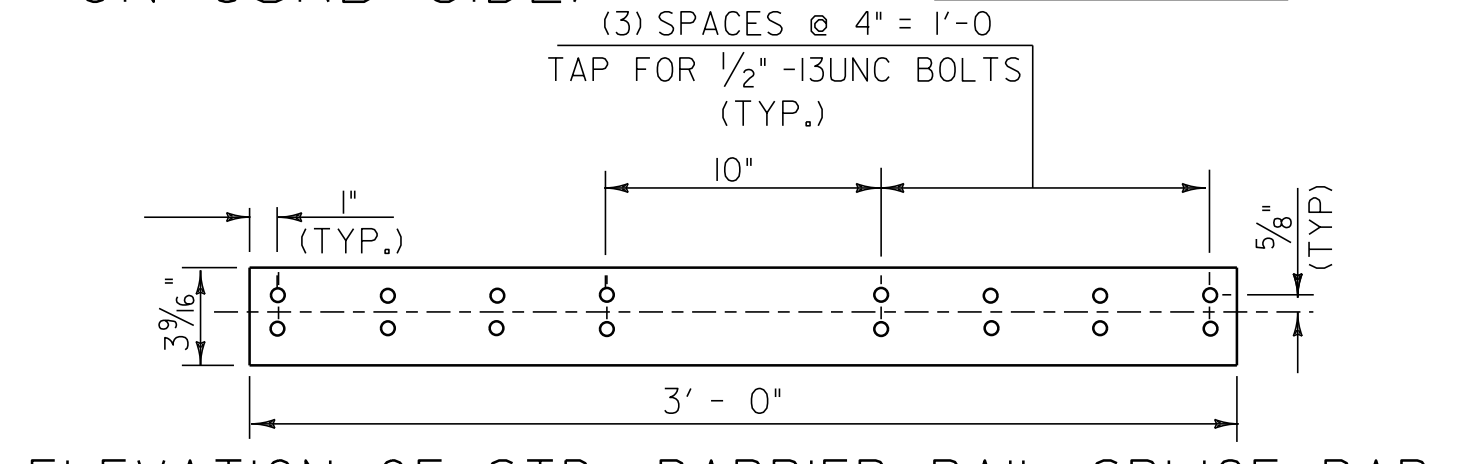


ELEVATION OF
HAND RAIL SPLICE BAR

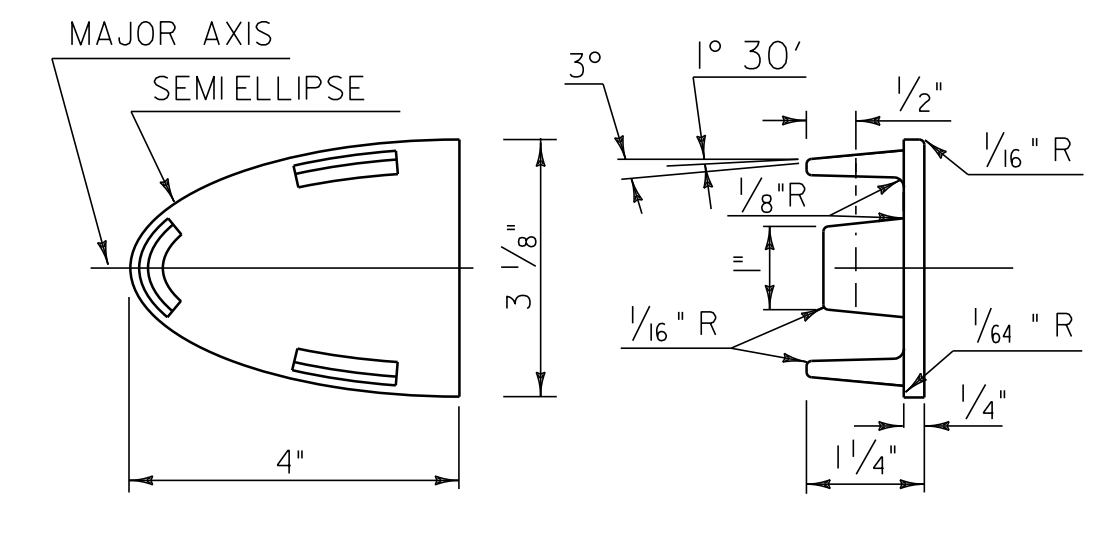


BARRIER RAIL
SPLICE SECTION

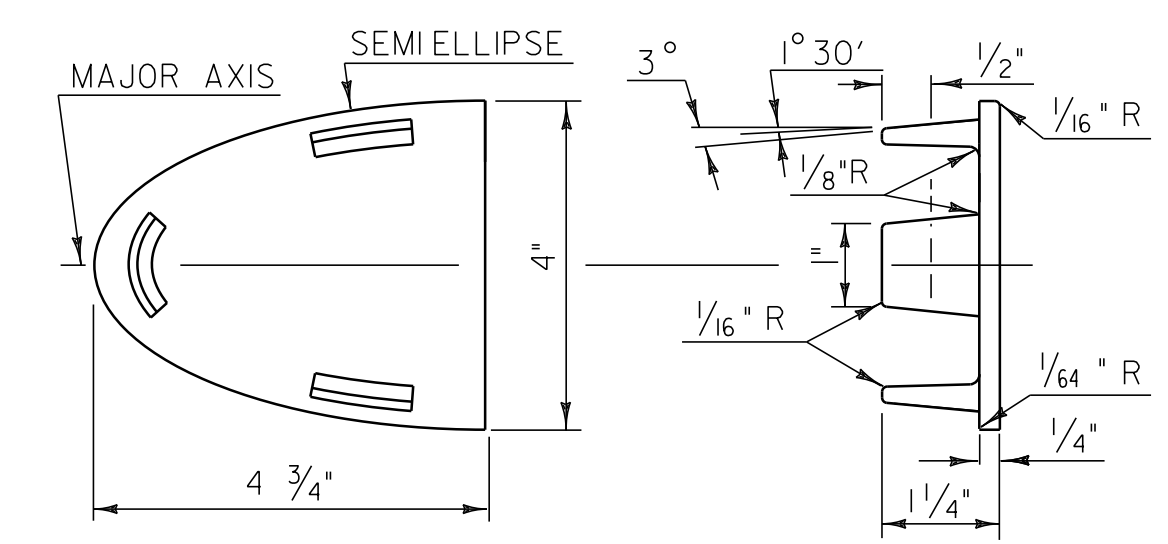
(SEE THE PREVIOUS SHEET AND THIS SHEET FOR ELEVATION OF BARRIER RAIL SPLICE BAR)



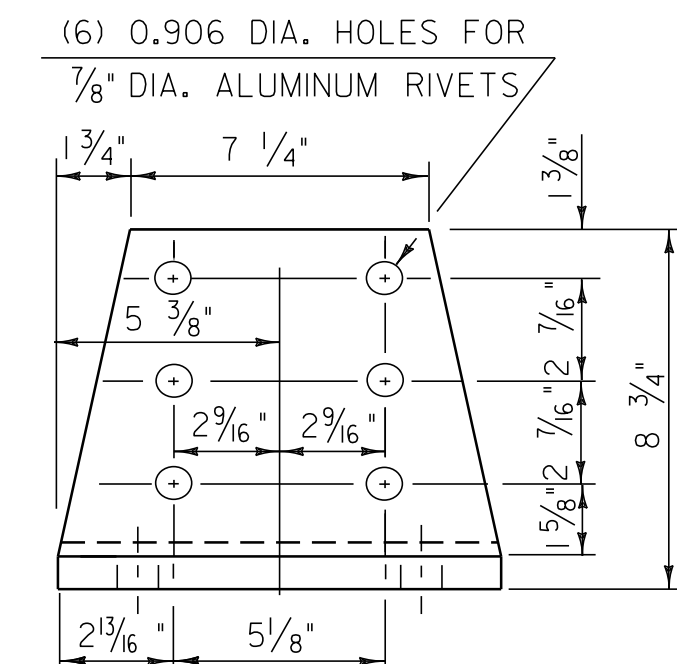
ELEVATION OF STD. BARRIER RAIL SPLICE BAR
(FROM BACK)



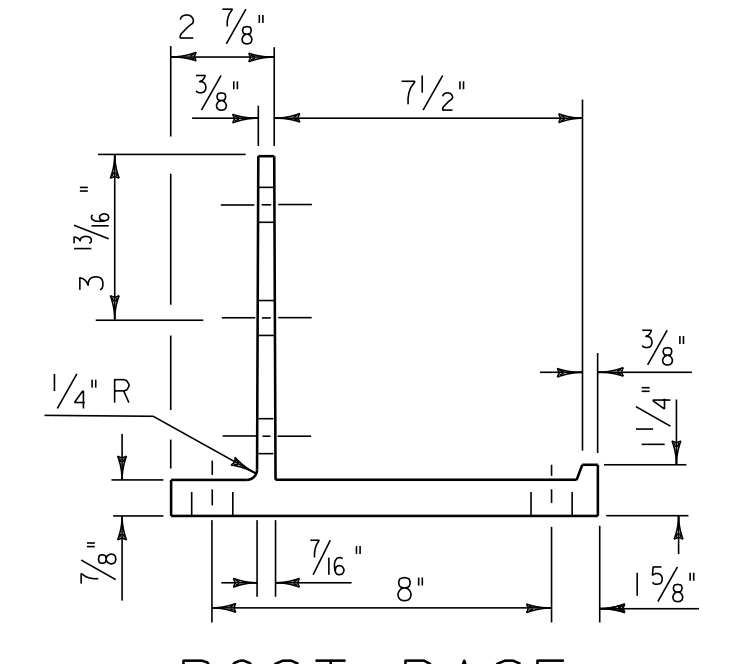
HAND RAIL END CAP



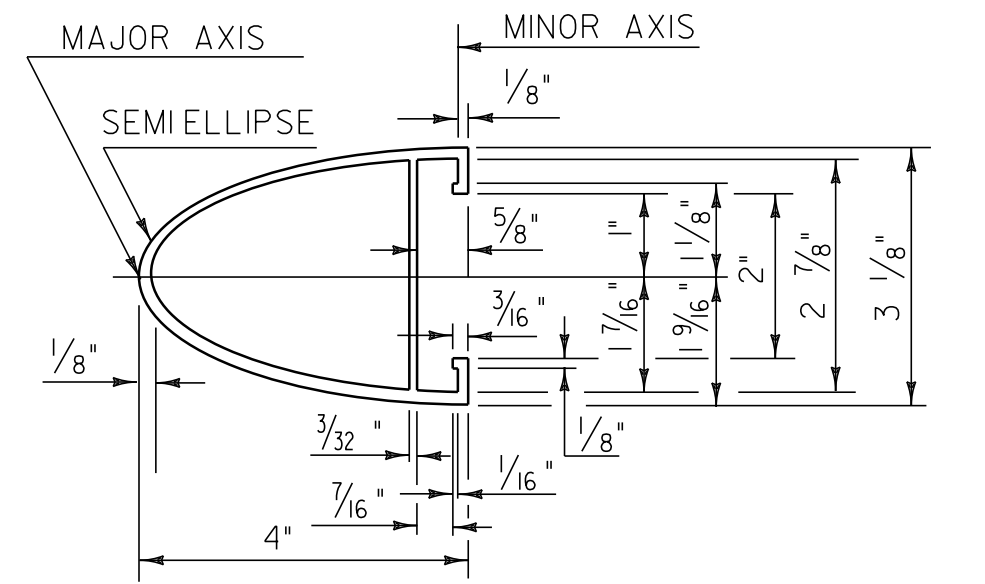
BARRIER RAIL END CAP



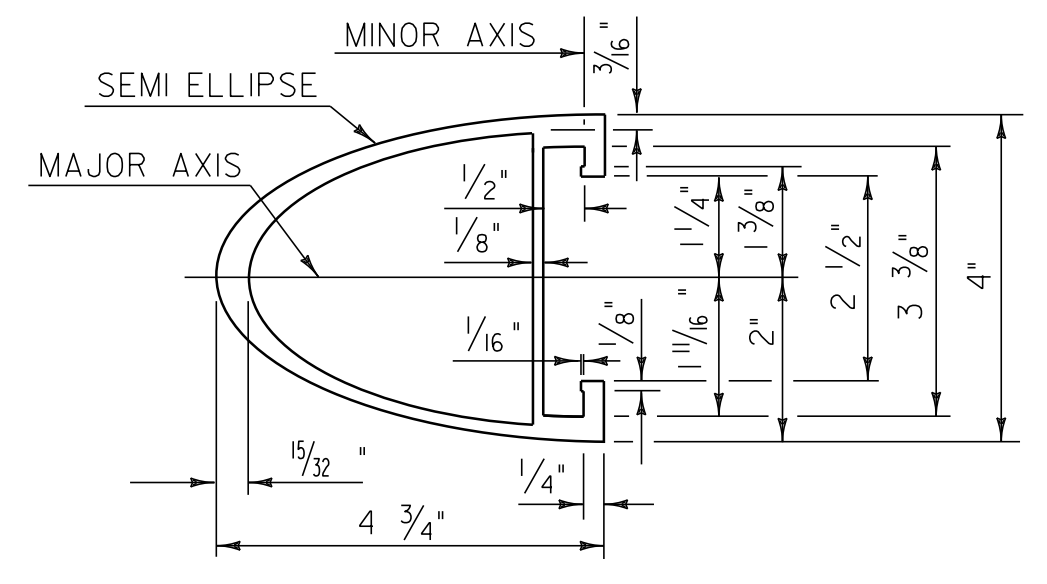
POST BASE
FRONT ELEVATION



POST BASE
SECTION

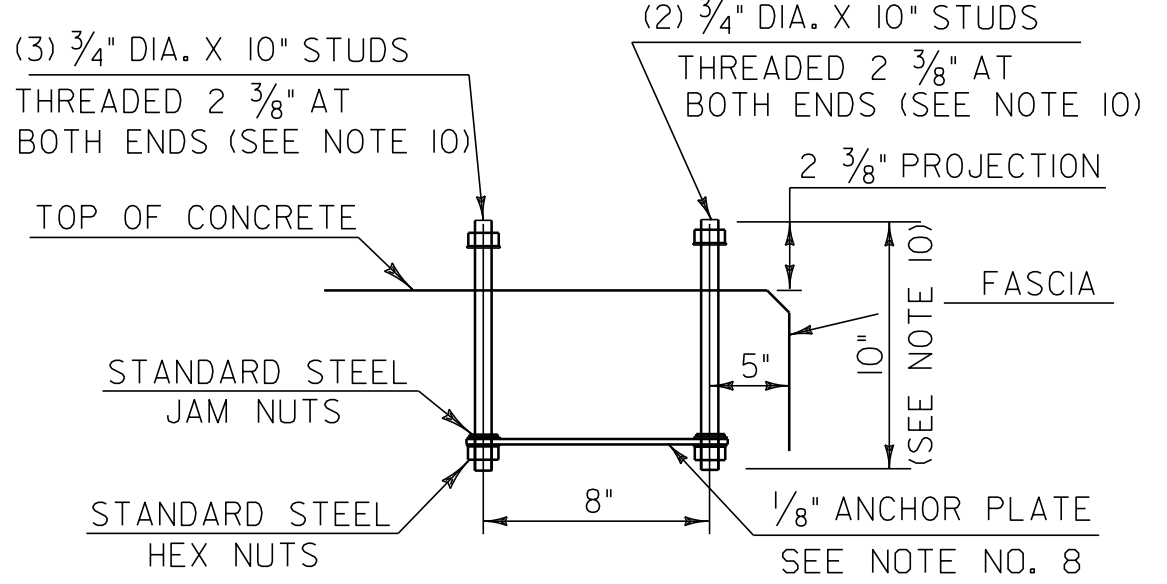


HAND RAIL SECTION

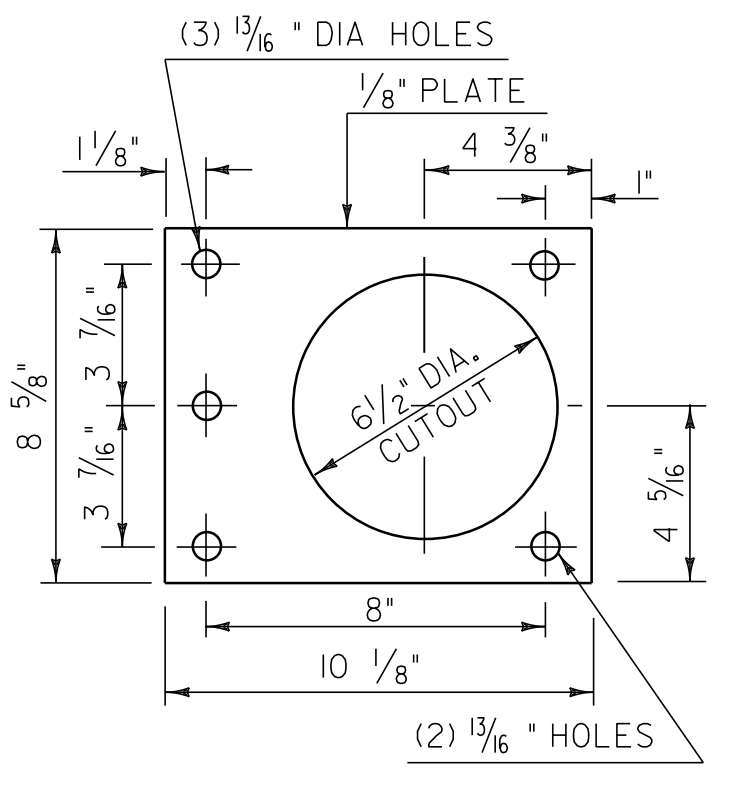


BARRIER RAIL SECTION

(SEE PREVIOUS SHEET FOR ELEVATION OF BARRIER RAIL)



POST ANCHOR ASSEMBLY



ANCHOR PLATE

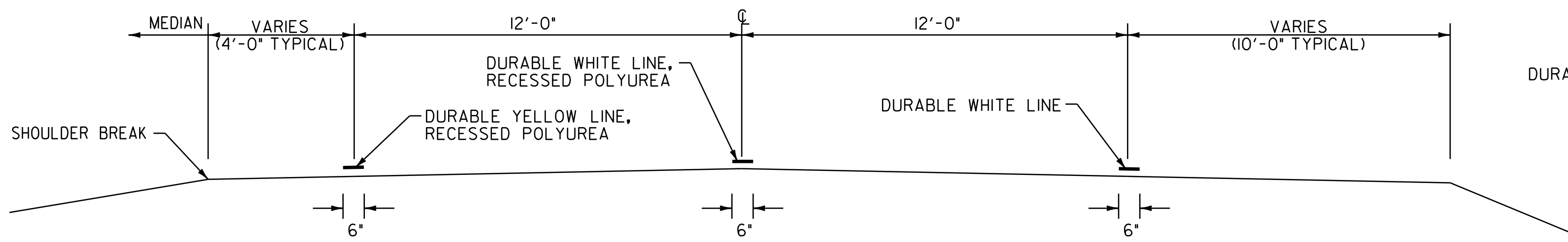
NOTES

- ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS MAY BE ANY OF THE FOLLOWING:
 - ASTM A449 GALVANIZED, OR
 - AASHTO M164 (ASTM A325) GALVANIZED
 - BOLTS AND WASHERS OF STAINLESS STEEL ASTM A276, TYPE 304 (MINIMUM ULTIMATE STRENGTH OF 100,000 PSI) WITH STAINLESS STEEL NUTS OF ASTM A194, GRADE 8NA.
- ALUMINUM POSTS, POST BASES, SPLICE BARS, CONNECTION BARS, RAILS AND BALUSTER FRAMES SHALL CONFORM TO ASTM B221 ALLOY 6061-T6 OR ALLOY 6351-T5. MINIMUM ALLOWABLE STRESS $F_y = 35,000$ PSI.
- ALUMINUM BALUSTER TUBES SHALL CONFORM TO ASTM B210 ALLOY 6061-T5 OR 6063-T5.
- ALUMINUM RAIL END CAPS SHALL CONFORM TO ASTM B26 ALLOY 356-T6.
- THE POST, RAIL, AND OFFSET BLOCK CONNECTION BOLTS SHALL BE EITHER ASTM A193 OR ASTM A320. EITHER ONE SHALL BE CLASS 1, B8 GRADE AISI 304 WITH AN ULTIMATE TENSILE STRENGTH OF 75,000 PSI. NUTS FOR EITHER OF THE ABOVE BOLTS SHALL BE ASTM A194, GRADE 8, STAINLESS STEEL WITH AN ULTIMATE TENSILE STRENGTH OF 75,000 PSI.
- SET SCREWS FOR ATTACHING BALUSTERS TO RAILING SHALL BE ASTM F880, TYPE 303 MATERIAL.
- RIVETS SHALL BE COLD DRIVEN HIGH BUTTON HEAD "CONE POINT", CONFORMING TO ASTM B316 ALLOY 6061-T6.
- THE ANCHOR PLATE FOR THE POST ANCHOR ASSEMBLY SHALL BE ASTM A36 STRUCTURAL STEEL.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 506.10 USING THE GMAW-INERT GAS PROCESS AND AWS ER 5356 ELECTRODE WIRE.
- UNLESS OTHERWISE SPECIFIED, ANCHOR BOLTS SHALL BE CAST INTO THE CONCRETE AS DETAILED.
- WHENEVER FEASIBLE BARRIER RAIL AND HAND RAIL SECTIONS, SHALL BE FULL LENGTH SECTIONS (40' ±) AND WHEN POSSIBLE SHALL BE ATTACHED TO THREE POSTS. RAILS SHALL BE SPLICED AT EACH DECK JOINT AND INTERMITTENTLY AS REQUIRED. SPLICES SHALL OCCUR WITHIN THE SAME PANEL.
- ENDS OF RAILS SHALL BE CUT SQUARE AND GROUND FREE OF BURRS OR RAGGED EDGES. EXPOSED ENDS SHALL BE CAPPED.
- THE CONCRETE CONTACT SURFACE AT THE POST BASE SHALL BE BUSH HAMMERED AND/OR SHIMMED AS REQUIRED FOR PROPER POST ALIGNMENT. POST HEIGHT ADJUSTMENTS LESS THAN 1/4" SHALL BE WITH 1/16" AND 1/8" SHIMS. CORRECTIONS EXCEEDING 1/4" SHALL BE WITH EPOXY MORTAR CONFORMING WITH SECTION 525. FABRIC BEARING PADS AND ANY REQUIRED SHIMS OR EPOXY MORTAR ARE INCLUDED IN THE UNIT PRICE BID FOR THE RAILING.
- SHIMS AND 1/8" FABRIC BEARING PADS SHALL BE 10 3/4" SQUARE WITH SLOTTED HOLES SIZED AND LOCATED THE SAME AS THE POST BASE DETAIL. FABRIC BEARING PADS SHALL CONFORM TO SUBSECTION 731.01 OR 731.02, SHIM MATERIAL SHALL BE ASTM B 209 ALLOY 1100-0.
- EXTRUDED SECTIONS ARE DETAILED TO COMPLY WITH CURRENT AASHTO-AGC-ARTBA STANDARDS. MINOR VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED PROVIDING THEY DO NOT REDUCE THE STRENGTH CAPACITY OF THE RAIL SYSTEM.
- ALUMINUM WASHERS SHALL BE ASTM B209 ALLOY ACLAD 2024-T4.

BRIDGE 100N, 113N, 110S AND 113S

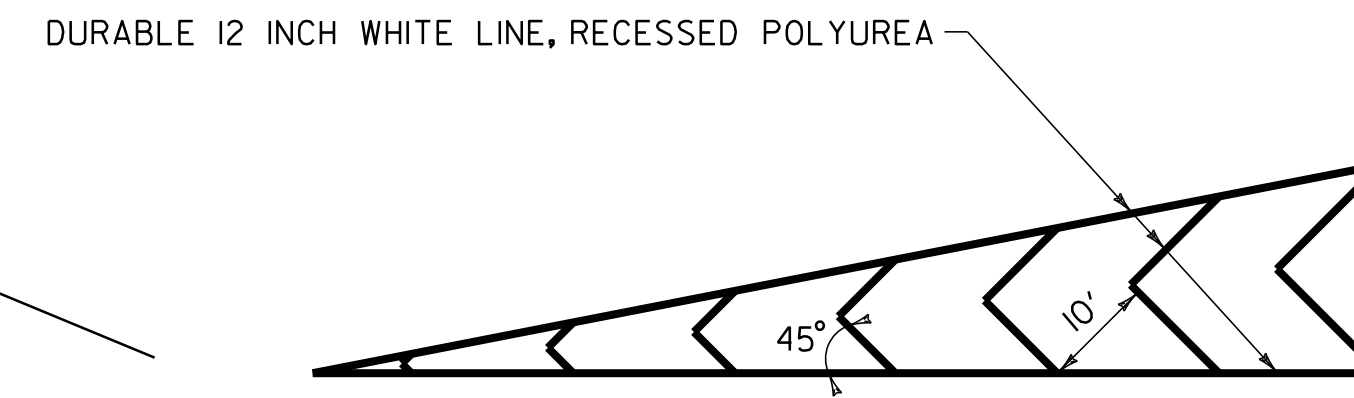
ALUMINUM
APPROACH
RAILING DETAIL
SHEET 2

PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2010 10:28
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 57 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200aard2.i	



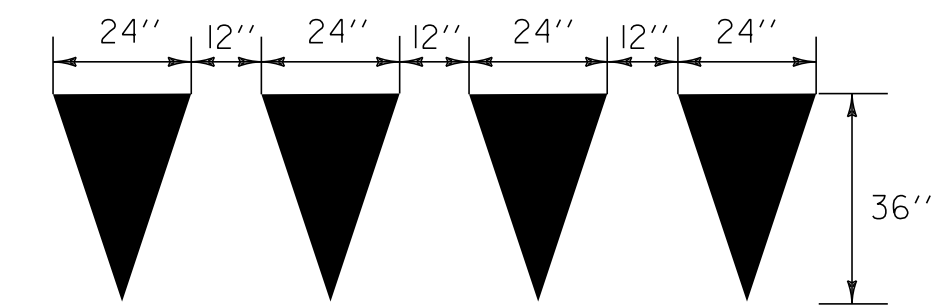
PAVEMENT MARKING PLACEMENT DETAIL - MAINLINE

DETAIL SHOWN FOR NORTHBOUND TYPICAL FACING NORTH (WITH STATIONING)



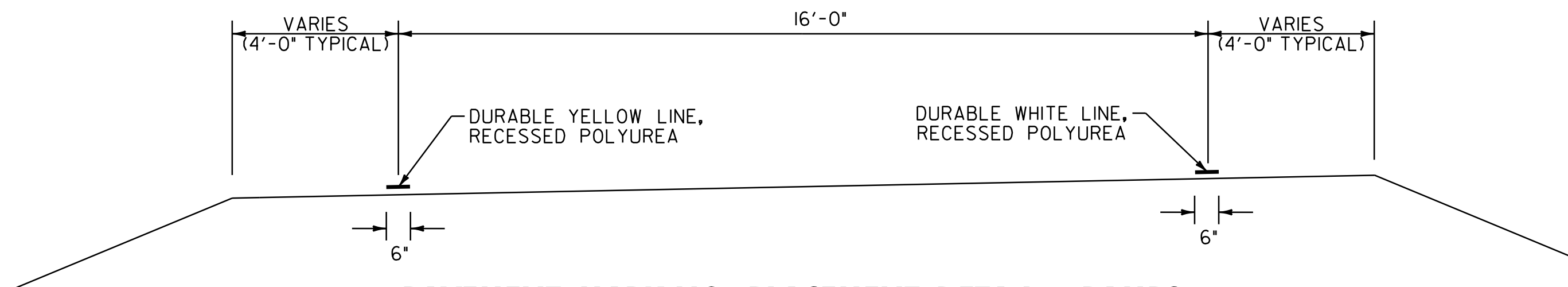
GORE MARKING DETAIL

SEE LAYOUT SHEETS FOR LOCATIONS



YIELD LINE DETAILS

TO BE INSTALLED ONLY AT THE DIRECTION OF THE RESIDENT ENGINEER TO BE PAID AS ONE DURABLE LETTER OR SYMBOL, THERMOPLASTIC PER TRIANGLE



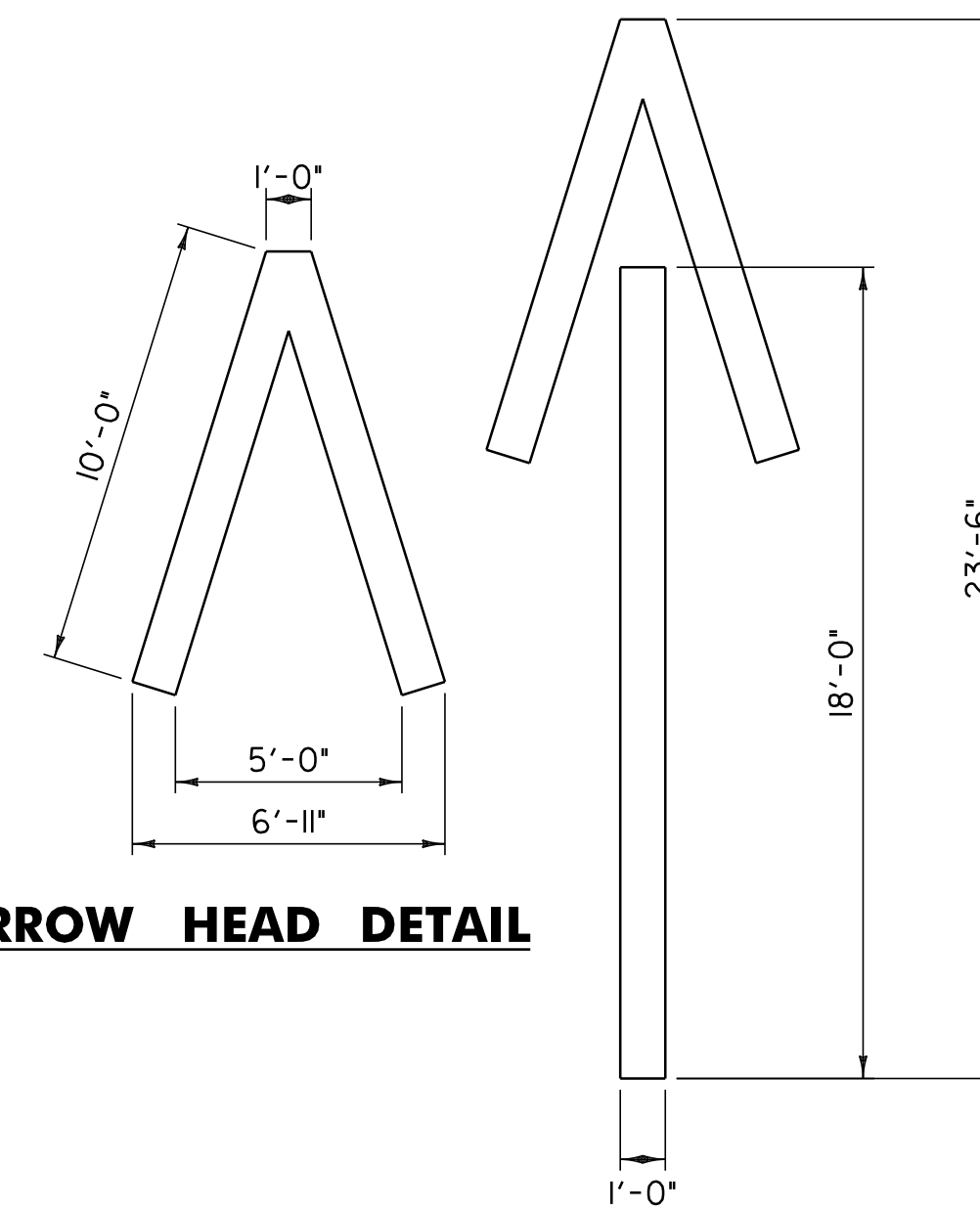
PAVEMENT MARKING PLACEMENT DETAIL - RAMPS

DETAIL SHOWN FACING DIRECTION OF TRAVEL

PAVEMENT MARKING LAYOUT TABLE

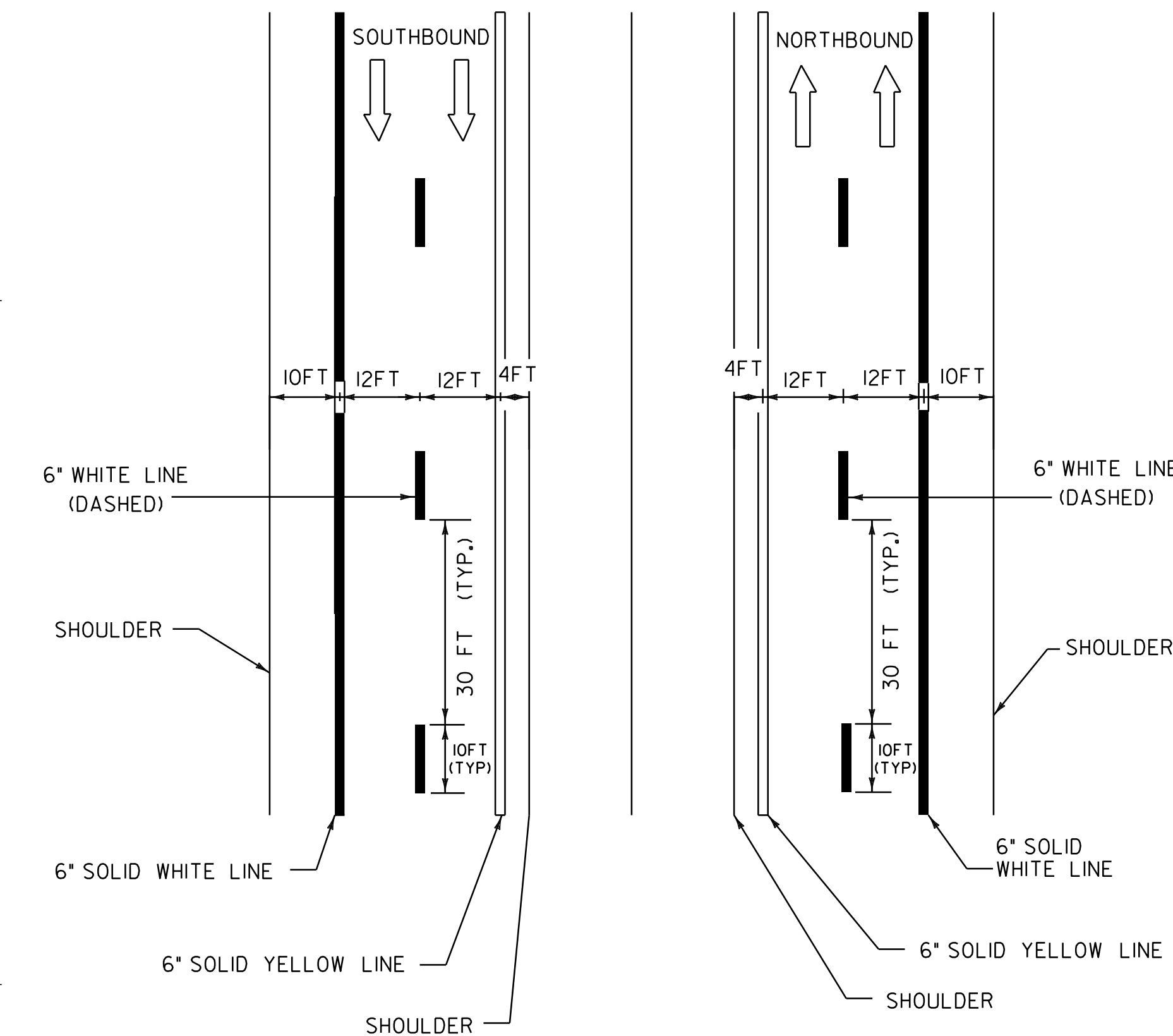
(FOR LENGTHS AT THE INTERCHANGES, SEE THE LAYOUT SHEETS)

LOCATION	(SOLID) DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA	(SOLID) DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	(DASHED) DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA	(DOTTED) DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA	(SOLID) DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA	(SOLID) DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA
NB MM 169,800 TO 177,432	RIGHT		CENTERLINE		LEFT	
SB MM 169,800 TO 177,432	LEFT		CENTERLINE		RIGHT	
INTERCHANGE NO. 27						
NB DECELERATION LANE			RIGHT	RIGHT		DBL RIGHT INCLUDING CHEVRONS
RAMP A	RIGHT				LEFT	
RAMP B	RIGHT				LEFT	
NB ACCELERATION LANE			RIGHT			DBL RIGHT
SB DECELERATION LANE				LEFT		DBL LEFT INCLUDING CHEVRONS
RAMP C	RIGHT				LEFT	
RAMP D	RIGHT				LEFT	
SB ACCELERATION LANE			LEFT			DBL LEFT
INTERCHANGE NO. 28						
NB DECELERATION LANE			RIGHT	RIGHT		DBL RIGHT INCLUDING CHEVRONS
RAMP D	RIGHT				LEFT	
RAMP A	RIGHT				LEFT	
NB ACCELERATION LANE			RIGHT			DBL RIGHT
SB DECELERATION LANE				LEFT		DBL LEFT INCLUDING CHEVRONS
RAMP B	RIGHT				LEFT	
RAMP C	RIGHT				LEFT	
SB ACCELERATION LANE			LEFT			DBL LEFT
WELCOME CENTER						
SB ACCELERATION LANE			LEFT			DBL LEFT
MAINLINE	LEFT & RIGHT				LEFT	
PARKING FACILITY		RIGHT				PARKING STALLS/HANDICAP RAMPS
SB DECELERATION LANE				LEFT		DBL LEFT INCLUDING CHEVRONS
INTERCHANGE 29						
NB DECELERATION LANE				RIGHT		DBL RIGHT INCLUDING CHEVRONS
RAMP A	RIGHT				LEFT	
RAMP C	RIGHT				LEFT	
NB ACCELERATION LANE						DBL RIGHT
SB DECELERATION LANE						DBL LEFT INCLUDING CHEVRONS
RAMP D	RIGHT				LEFT	
RAMP B	RIGHT				LEFT	
SB ACCELERATION LANE			LEFT			DBL LEFT



ARROW HEAD DETAIL

WRONG WAY ARROW



TYPICAL MAINLINE MARKING PLAN

LEGEND

- 6" WHITE LINES
- 6" YELLOW LINES
- DIRECTION OF TRAFFIC FLOW

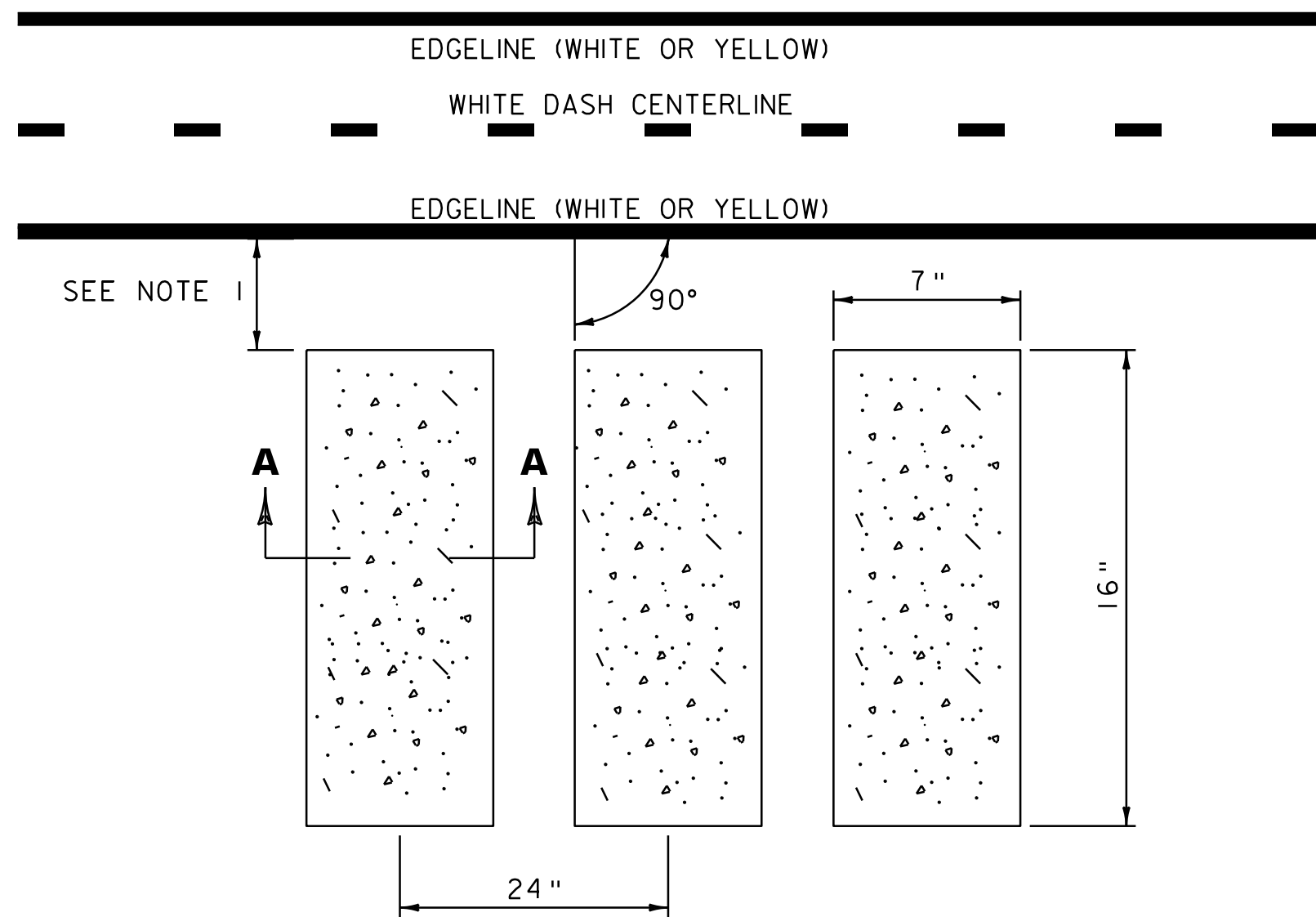
PAVEMENT MARKING LAYOUT & DETAIL SHEET



PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

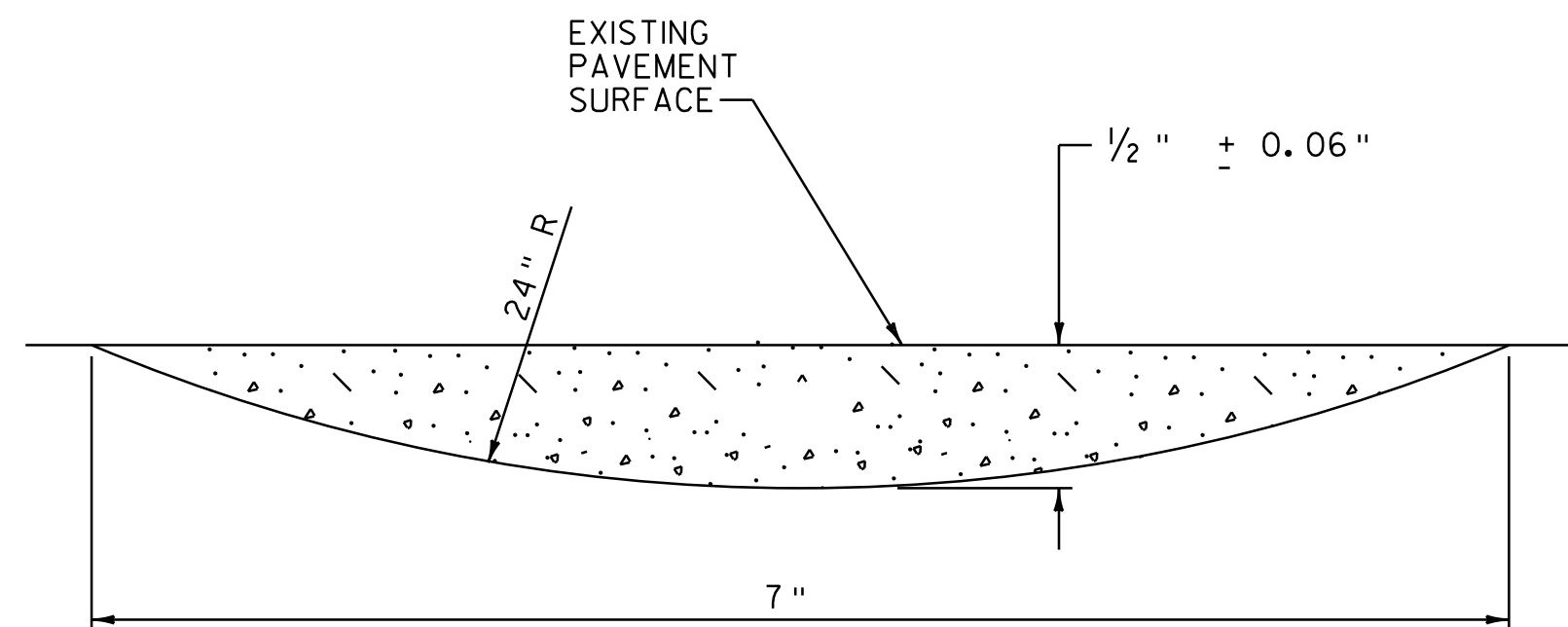
FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200pmd.i

PLOT DATE: 07-SEP-2011 10:29
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 58 OF 63

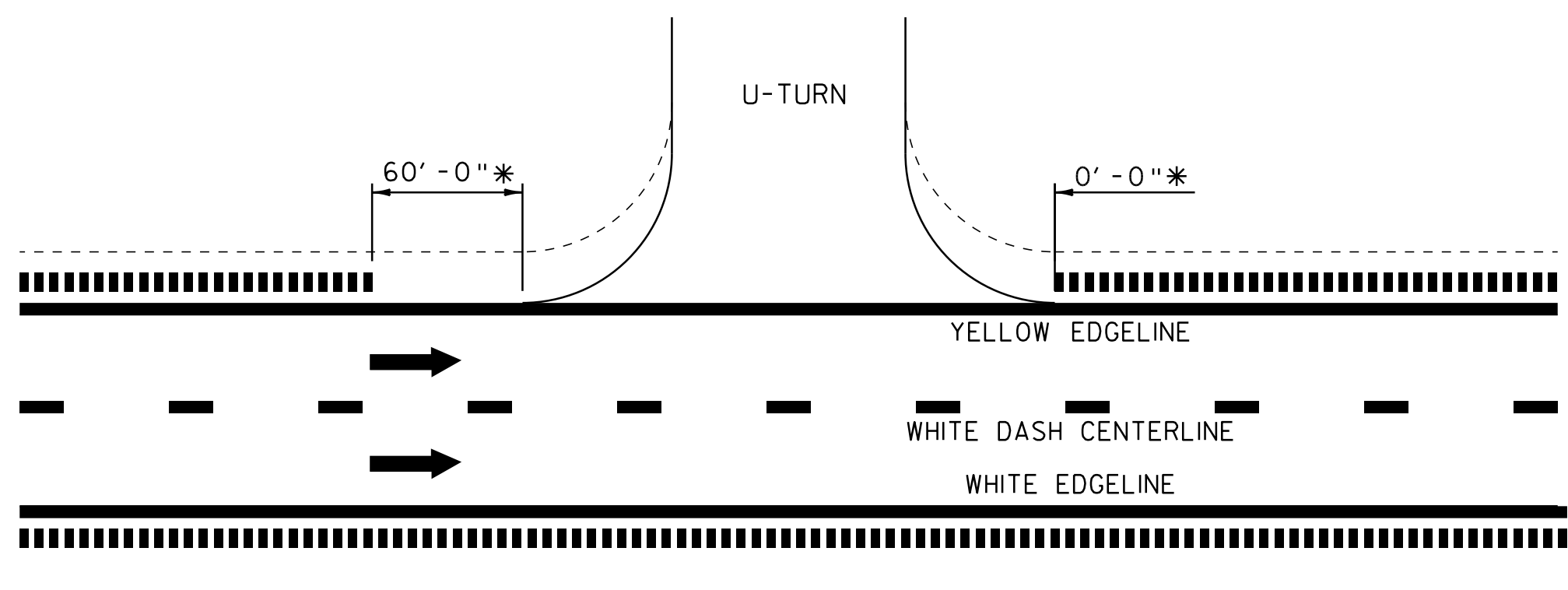


RUMBLE STRIP MILLING DETAIL

- NOTES:
 1. MILL RUMBLE STRIPS 30 INCHES FROM EDGE LINE FOR ALL SHOULDERS 6 FEET OR WIDER; MILL RUMBLE STRIPS 6 INCHES FROM EDGE LINE FOR ALL SHOULDERS LESS THAN 6 FEET WIDE.
 2. IN GUARDRAIL AREAS, STOP MILLED RUMBLE STRIPS WHEN THE SHOULDER NARROWS TO 4 FEET WIDE.

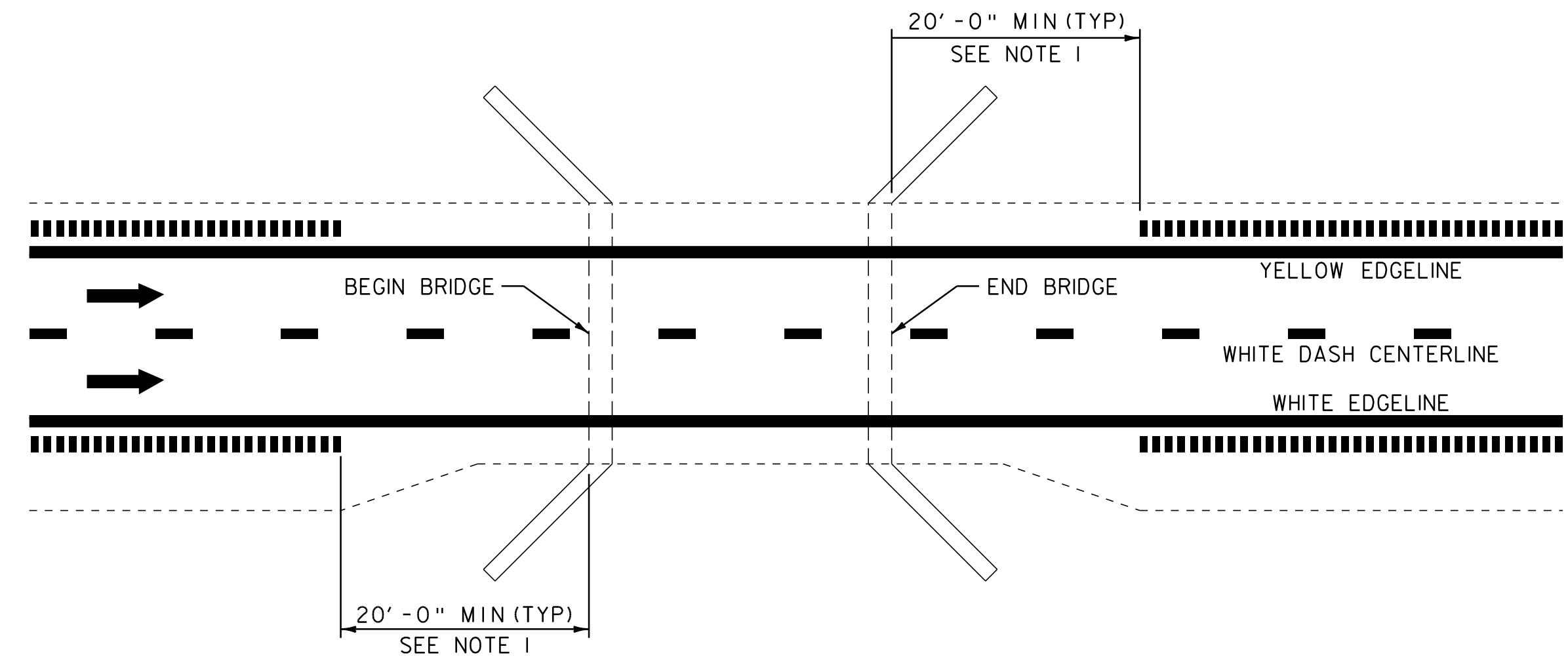


SECTION A-A



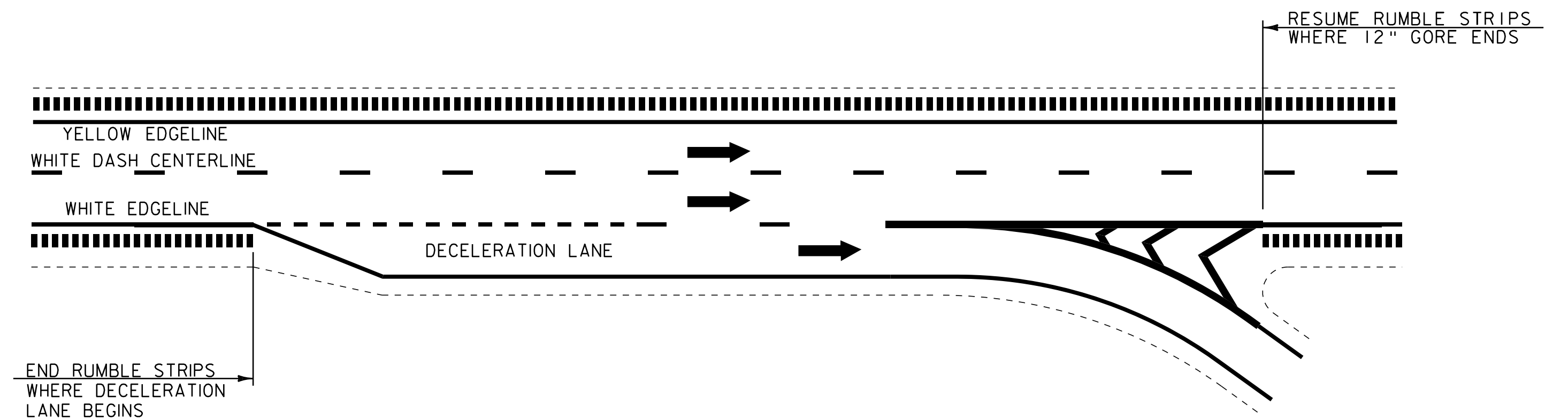
RUMBLE STRIP U-TURN DETAIL

* THE DIMENSIONS MAY VARY DEPENDING ON ACTUAL FIELD CONDITIONS, AND MAY BE MODIFIED AT THE RESIDENT ENGINEER'S DISCRETION.

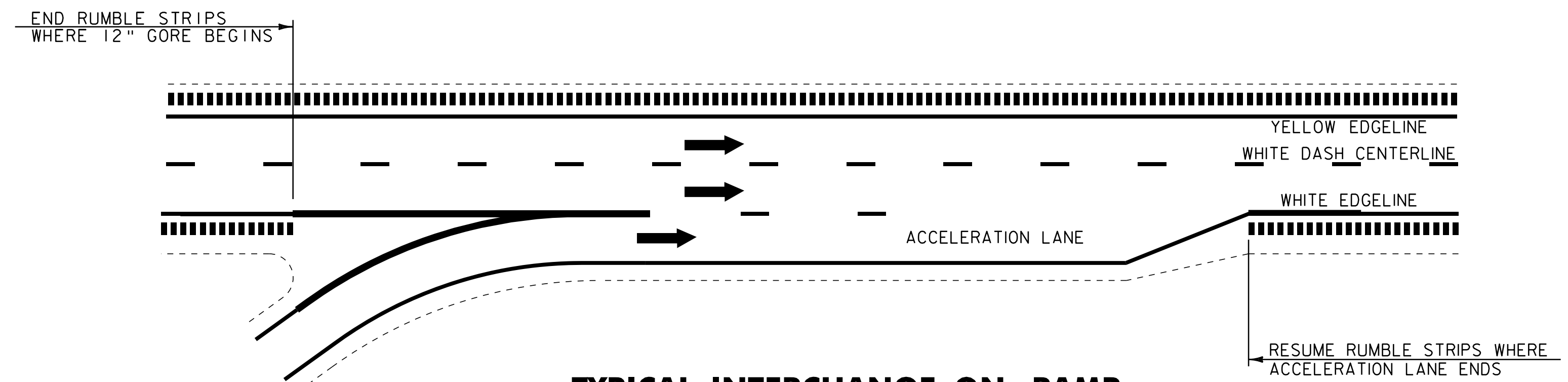


RUMBLE STRIP BRIDGE DETAIL

- NOTES:
 1. NO RUMBLE STRIPS SHALL BE MILLED WITHIN 20 FEET OF THE BEGIN AND END OF BRIDGE. DO NOT BEGIN RUMBLE STRIPS UNTIL THE SHOULDER IS AT LEAST 4 FEET WIDE.
 2. AT NO TIME SHALL THE RUMBLE STRIPS BE MILLED INTO ANY APPROACH SLAB.



TYPICAL INTERCHANGE OFF RAMP



TYPICAL INTERCHANGE ON RAMP

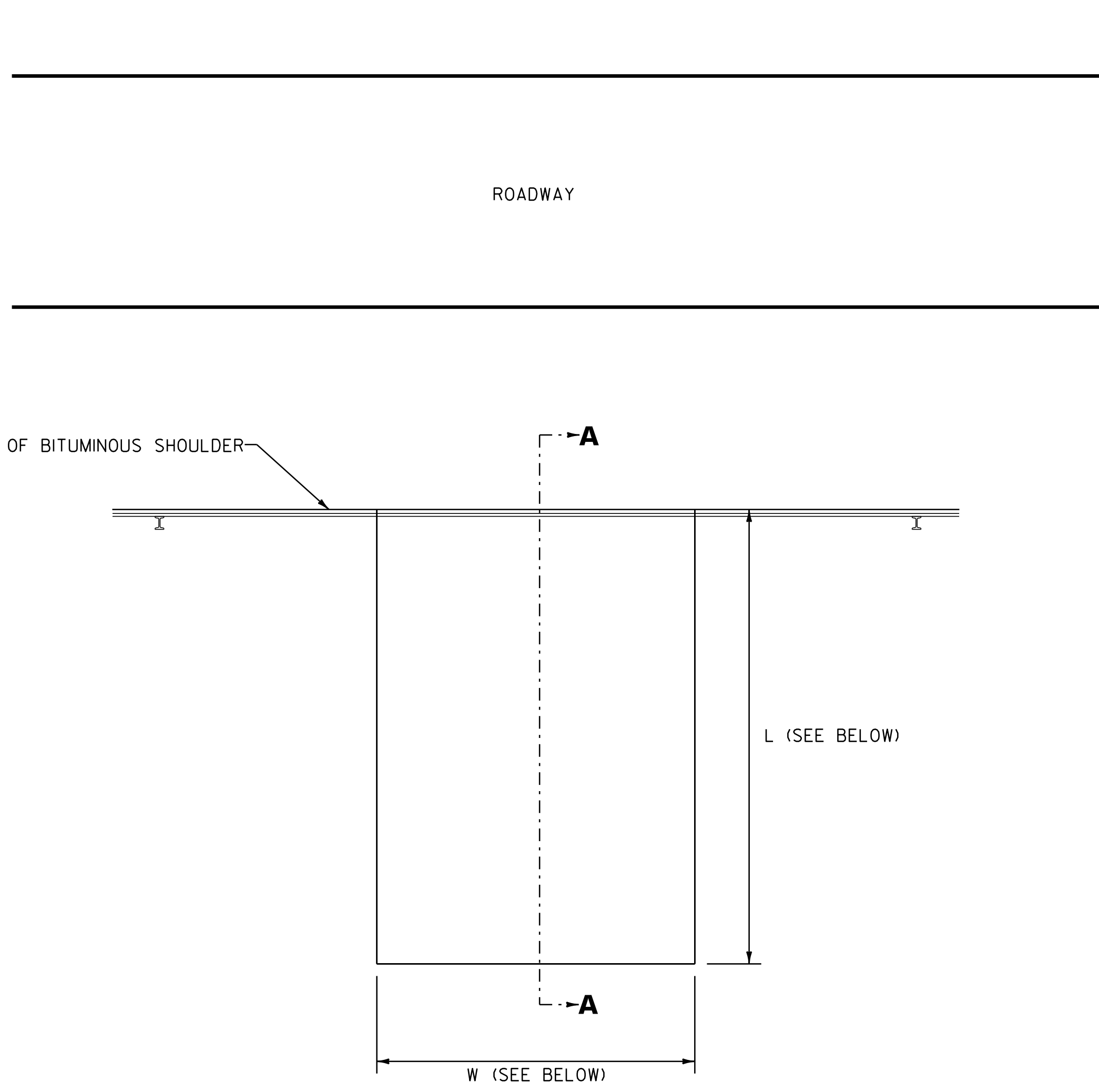
LEGEND

- ← DIRECTION OF TRAFFIC FLOW
- MILLED RUMBLE STRIPS
- EDGE OF PAVEMENT

NOT TO SCALE

MILLED RUMBLE STRIP DETAILS

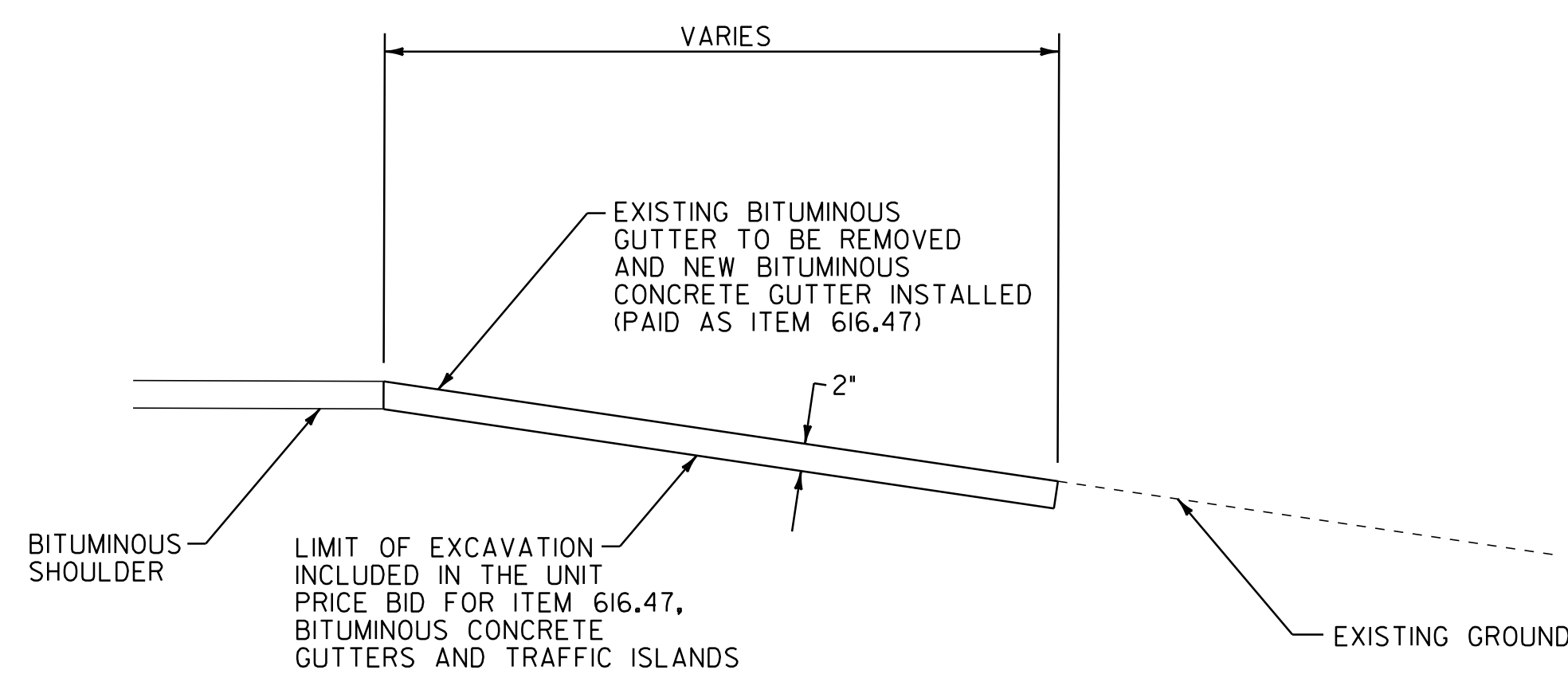
PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:29
PROJECT NUMBER: IM 091-3(46)	DRAWN BY: STANTEC
FILE NAME: p06a200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 59 OF 63
DESIGNED BY: STANTEC	
IPARM FILE: p06a200mrtd01.i	



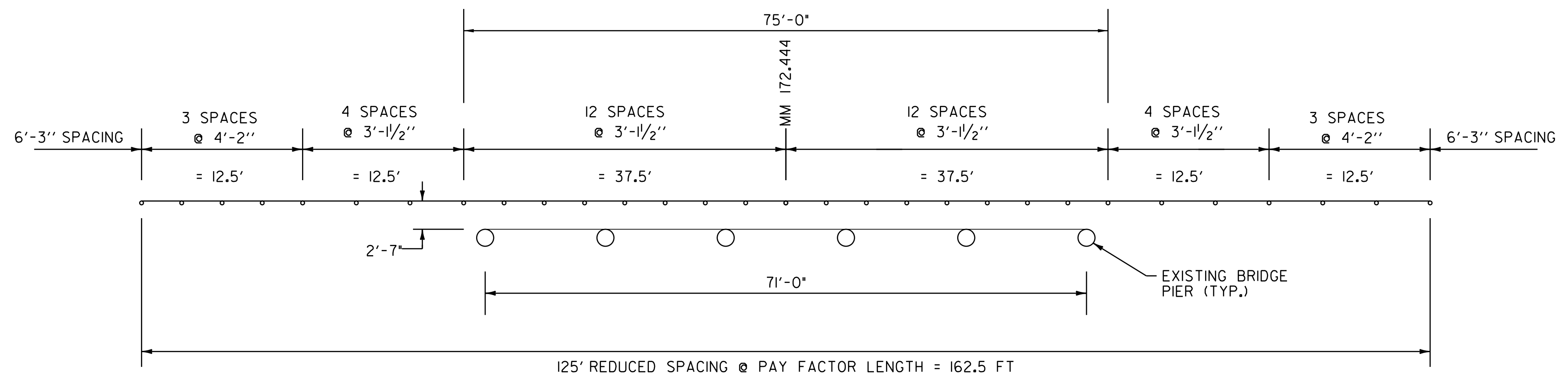
BITUMINOUS SWALE DETAIL

DIMENSIONS = (L x W)

INTERCHANGE 27 RAMP A	MM 0.008, RT (16' X 4')
INTERCHANGE 27 RAMP A	MM 0.038, RT (25' X 3')
INTERCHANGE 27 RAMP A	MM 0.085, RT (26' X 4')
INTERCHANGE 27 RAMP A	MM 0.134, RT (25' X 4')
INTERCHANGE 27 RAMP B	MM 0.164, LT (12' X 5')
INTERCHANGE 28 RAMP C	MM 0.149, RT (23' X 3.5')
INTERCHANGE 28 RAMP C	MM 0.208, RT (20' X 2')

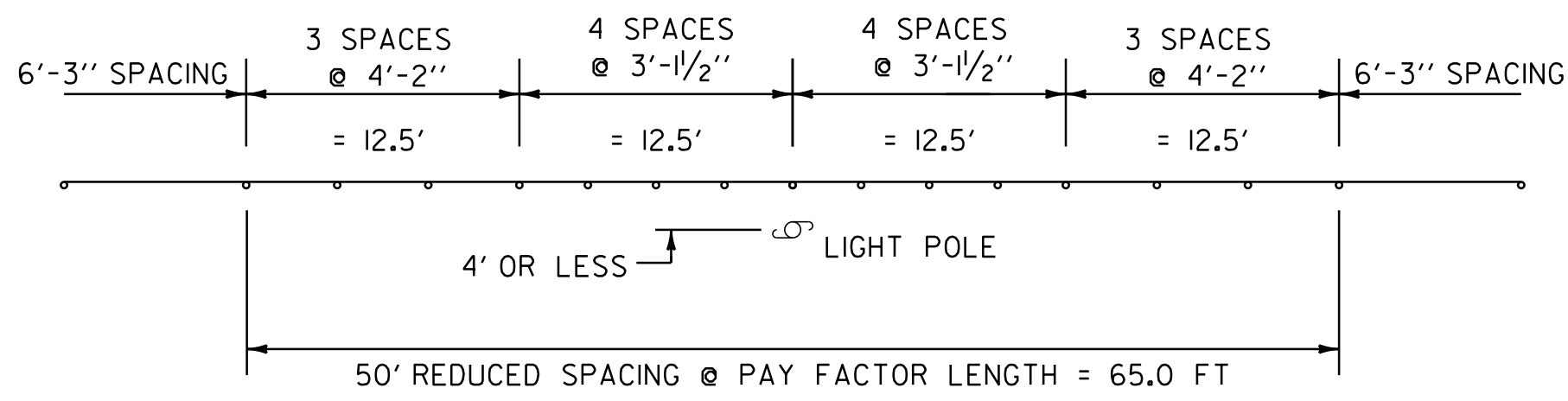


SECTION A-A



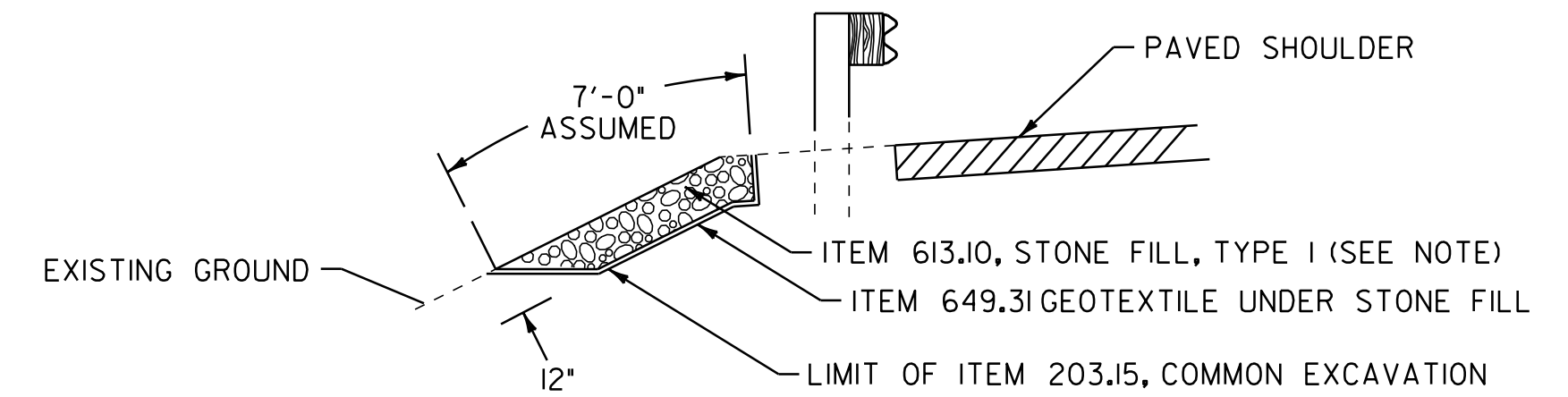
REDUCED GUARDRAIL POST SPACING DETAIL #1

NOTE: DETAIL PROVIDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER
 BRIDGE III PIERS (6)
 N. B. MM 172.437 - 172.450, RT



REDUCED GUARDRAIL POST SPACING DETAIL #2

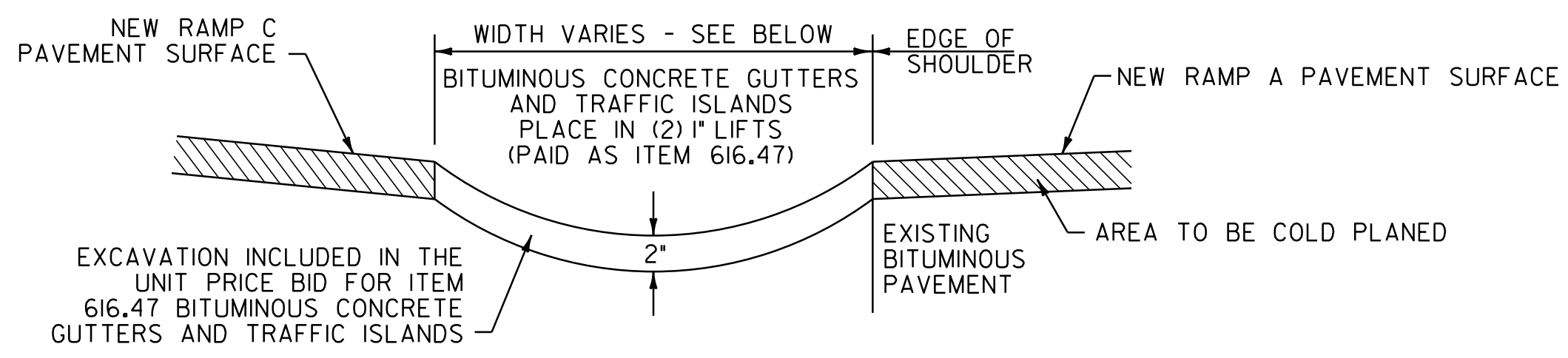
NOTE: DETAIL PROVIDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER
 INTERSTATE 91 SB MM 176.554, LT - LIGHT POLE
 INTERSTATE 91 SB MM 176.580, LT - LIGHT POLE



SLOPE EROSION REPAIR DETAIL

(ASSUME A 7' WIDTH X 6' LENGTH UNLESS OTHERWISE NOTED)

NORTHBOUND	MM 170.415, LT
	MM 170.719, LT
	MM 171.292, LT
	MM 171.310, LT
	MM 171.332, LT
	MM 171.359, LT
	MM 171.385, LT
	MM 171.392, LT
	MM 171.398, LT
	MM 171.404, LT
	MM 171.437, LT
	MM 171.440, LT
	MM 171.443, LT
	MM 171.452, LT
	MM 171.458, LT
	MM 174.549 TO MM 174.555, LT (30' +)
SOUTHBOUND	MM 171.631, LT
	MM 172.412, LT
	MM 172.417, LT
	MM 172.422 TO MM 172.427, LT (26' +)
	MM 174.557 TO MM 174.564, RT (39' +)
	MM 174.568 TO MM 174.575, LT (36' +)
	MM 175.494, LT
INTERCHANGE 27 RAMP D	MM 0.097, RT



BITUMINOUS CONCRETE GUTTER DETAIL

INTERSTATE 91 NB MM 175.808 - 175.900, LT (AVE. WIDTH = 3.3')
 INTERCHANGE 28 RAMP C MM 0.117 - 0.122, LT (AVE. WIDTH = 16')

SNOW BARRIER, GALVANIZED
 (ITEM 620.75)

BRIDGE NO.	BEGIN MM	POSITION	LENGTH (FT)
113N	175.766	RT	76
113N	175.776	LT	73
113S	175.790	LT	72
113S	175.796	RT	80

NOTE:

AN ESTIMATED QUANTITY OF ITEM 613.11 STONE FILL, TYPE II HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER. IF ITEM 613.11 IS NECESSARY, THE ADDITIONAL EXCAVATION DEPTH REQUIRED WILL BE PAID AS ITEM 203.15, COMMON EXCAVATION

NOT TO SCALE

MISCELLANEOUS DETAIL SHEET

PROJECT NAME:	DERBY	PLOT DATE:	07-SEP-2011 10:29
PROJECT NUMBER:	IM 091-3(46)	DRAWN BY:	STANTEC
FILE NAME:	p06a200.dgn	CHECKED BY:	JLL
PROJECT LEADER:	JLL	SHEET	60 OF 63
DESIGNED BY:	STANTEC		
IPARM FILE:	p06a200md.i		



CULVERT LOCATIONS			
MM	POSITION	SIZE (INCHES)	TYPE
NORTHBOUND:			
169.792	LT	12"	CMP
169.98	LT	18"	CMP
170.161	LT	24"	CMP
170.245	LT	48"	CMP
170.349	LT	18"	CMP
170.349	RT	18"	CMP W/ CONC. HEADWALL
170.405	RT	12"	CMP
170.406	RT	12"	CMP
170.416	LT	12"	CMP
170.432	RT	18"	CMP W/ CONC. HEADWALL
170.464	LT	18"	CMP
170.51	RT	12"	CMP
170.512	LT	12"	CMP
170.557	LT	12"	CMP
170.598	LT	18"	CMP
170.605	RT	12"	CMP
170.606	LT	12"	CMP
170.652	RT	12"	CMP
170.653	RT	18"	CMP
170.653	LT	12"	CMP
170.7	RT	18"	CMP
170.701	RT	12"	CMP
170.702	LT	12"	CMP
170.746	RT	12"	CMP
170.778	RT	18"	CMP W/ CONC. HEADWALL
170.852	LT	24"	CMP W/ CONC. HEADWALL
170.916	RT	24"	RCP
171.122	LT	18"	CMP
171.168	RT	18"	CMP W/CONC. HEADWALL
171.169	LT	24"	CMP
171.259	LT	24"	CMP
171.259	RT	6"	CMP W/ CONC. HEADWALL
171.259	RT	12"	CMP UNDERDRAIN
171.317	LT	36"	CMP
171.355	LT	36"	CMP
171.355	RT	12"	CMP W/CONC. HEADWALL
171.365	LT	18"	CMP
171.412	LT	42"	CMP
171.446	LT	42"	CMP
171.449	RT	12"	CMP
171.459	LT	6"	CMP
171.602	LT	48"	CMP UNDERDRAIN
171.607	RT	36"	CMP W/PARTIAL HEADWALL
171.817	RT	12"	CMP W/CONC. HEADWALL
172.035	RT	18"	CMP
172.12	RT	12"	CMP
172.157	RT	18"	CMP
172.216	RT	18"	CMP
172.216	RT	18"	CMP
172.489	LT	18"	RCP

CULVERT LOCATIONS			
MM	POSITION	SIZE (INCHES)	TYPE
NORTHBOUND (CONT.):			
172.489	RT	18"	RCP
172.555	RT	18"	RCP
172.555	LT	18"	RCP W/CONC. HEADWALL
172.588	LT	18"	RCP
172.628	LT	18"	CMP
172.628	LT	30"	RCP
172.763	LT	6"	RCP
172.764	RT	18"	RCP DRAIN CONC. HEADWALL
172.993	LT	18"	CMP
173.085	RT	6"	CMP
173.368	LT	18"	CMP UNDERDRAIN
173.506	LT	18"	CMP W/END SECTION END
173.506	RT	42"	CMP W/END SECTION END
173.623	RT	42"	CMP
173.637	LT	24"	CMP W/END SECTION END
173.849	LT	24"	RCP
174.116	LT	6"	RCP
174.123	LT	18"	CMP UNDERDRAIN
174.133	LT	18"	CMP
174.133	RT	24"	CMP W/CONC. HEADWALL
174.142	LT	18"	RCP W/CONC. END SECTION
174.217	LT	18"	CMP W/END SECTION
174.217	RT	42"	CMP W/END SECTION
174.332	RT	18"	CMP
174.406	RT	18"	CMP W/END SECTION
174.411	LT	6"	CMP
174.9	LT	36"	CMP UNDERDRAIN
174.93	RT	48"	CMP W/END SECTION
175.012	RT	18"	CMP W/CONC. HEADWALL
175.102	LT	54"	RCP
175.273	RT	24"	CMP
175.355	LT	18"	CMP W/END SECTION
175.356	LT	24"	RCP
175.357	LT	18"	CMP
175.491	LT	96"	CMP W/END SECTION
175.532	RT	24"	CMP
175.986	RT	24"	RCP
175.991	LT	84"	RCP
176.121	LT	84"	CMP
176.148	RT	18"	CMP
176.201	LT	18"	RCP
176.288	LT	18"	RCP
176.354	LT	18"	CMP
176.448	LT	18"	CMP
176.635	LT	18"	CMP
176.716	LT	18"	CMP
176.786	RT	18"	CMP W/STONE HEADWALL
176.852	RT	18"	CMP W/STONE HEADWALL
177.174	LT	18"	CMP UNDER U-TURN
177.188	LT		CMP UNDER U-TURN

CULVERT LOCATIONS			
MM	POSITION	SIZE (INCHES)	TYPE
SOUTHBOUND:			
177.135	RT	24"	RCP
176.521	LT	18"	CMP
176.426	LT	18"	RCP
176.331	LT	18"	CMP
176.26	LT	36"	CMP W/CONC. HEADWALL
176.2	RT	18"	RCP
176.125	LT	78"	CMP
176.116	RT	78"	CMP
175.782	RT	12"	CMP
175.726	RT	12"	CMP
175.661	RT	12"	CMP
175.604	RT	12"	CMP
175.555	RT	12"	CMP
175.521	RT	96"	CMP W/CONC. HEADWALL
175.498	RT	18"	CMP
175.357	RT	18"	CMP
175.355	RT	24"	CMP
175.354	RT	24"	CMP
175.289	RT	54"	CMP
175.278	RT	12"	CMP
175.27	RT	18"	CMP
175.11	LT	18"	RCP
175.009	RT	42"	CMP
174.903	RT	36"	CMP W/CONC. HEADWALL
174.75	LT	18"	CMP W/END SECTION
174.75	RT	18"	CMP
174.638	RT	18"	CMP W/END SECTION
174.338	RT	42"	CMP
174.226	RT	24"	CMP
174.157	RT	6"	RCP UNDERDRAIN
174.157	RT	30"	RCP
174.152	RT	18"	RCP
174.149	LT	30"	RCP
173.849	LT	18"	RCP W/CONC. END SECTION
173.849	RT	18"	RCP
173.663	LT	42"	CMP W/END SECTION
173.648	RT	42"	CMP W/END SECTION
173.514	RT	18"	CMP W/END SECTION
173.514	LT	18"	CMP
172.747	LT	30"	RCP
172.738	RT	30"	RCP
172.679	RT	12"	CMP
172.64	RT	72"	CMP
172.637	RT	12"	CMP
172.595	RT	12"	CMP
172.583	RT	18"	CMP W/CONC. HEADWALL
172.218	RT	12"	CMP
172.116	RT	12"	CMP
172.056	RT	12"	SLOPE DITTO 12" CMP
172.007	RT	24"	CMP

CULVERT LOCATIONS			
MM	POSITION	SIZE (INCHES)	TYPE
SOUTHBOUND (CONT.):			
172.005	RT	12"	CMP UNDERDRAIN
171.802	RT	36"	CMP
171.722	RT	18"	RCP
171.633	RT	48"	CMP
171.469	LT	42"	CMP W/CONC. HEADWALL
171.469	RT	42"	CMP
171.411	RT	12"	CMP
171.384	LT	36"	CMP W/ CONC. HEADWALL
171.384	RT	36"	CMP
171.286	LT	24"	CMP W/CONC. HEADWALL
171.286	RT	24"	CMP
171.203	LT	18"	CMP W/CONC. HEADWALL
171.203	RT	18"	CMP
171.155	RT	24"	CMP
171.153	LT	24"	CMP W/CONC. HEADWALL
171.099	RT	24"	RCP
171.014	RT	18"	RCP
170.862	LT	24"	CMP W/CONC. HEADWALL
170.862	RT	24"	CMP
170.786	LT	18"	CMP FROM UNDER NORTHBOUND BARRELL
170.785	LT	18"	CMP W/CONC. HEADWALL
170.785	RT	18"	CMP
170.73	RT	18"	CMP
170.722	LT	18"	CMP
170.606	LT	18"	CMP W/CONC. HEADWALL
170.606	RT	18"	CMP
170.521	LT	18"	CMP W/CONC. HEADWALL
170.521	RT	18"	CMP
170.481	LT	18"	CMP W/CONC. HEADWALL
170.481	RT	18"	CMP
170.415	LT	18"	CMP W/CONC. HEADWALL
170.415	RT	18"	CMP
170.364	LT	18"	CMP UNDER U-TURN
170.353	LT	18"	CMP UNDER U-TURN
170.258	RT	48"	CMP W/ CONC. HEADWALL
170.256	RT	48"	CMP
170.256	LT	48"	CMP
170.172	LT	24"	RCP
170.172	RT	24"	RCP
170.096	LT	24"	CMP W/CONC. HEADWALL
170.096	RT	24"	CMP VERTICAL RISER W/ROUND TYPE D
170.011	LT	18"	CMP W/CONC. HEADWALL TO UNDER I-91 AND ON-RAMP
169.953	RT	6"	CMP UNDERDRAIN
169.916	RT	18"	CMP
169.819	LT	18"	CMP W/END SECTION
169.819	RT	18"	CMP
INTERCHANGE 27			
RAMP A			
5+47	RT	12"	CMP
RAMP B			
6+43	LT	18"	CMP
INTERCHANGE 28			
RAMP B			
10+51	RT	18"	CMP
13+18	RT	18"	CMP
RAMP C			
2+04	RT	18"	CMP
4+57	RT	18"	CMP
5+29	RT	18"	CMP
RAMP D			
8+53	RT	24"	CMP
INTERCHANGE 29			
RAMP A			
7+93	LT	18"	CMP
7+93	RT	18"	CMP W/ CONC. HEADWALL

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY

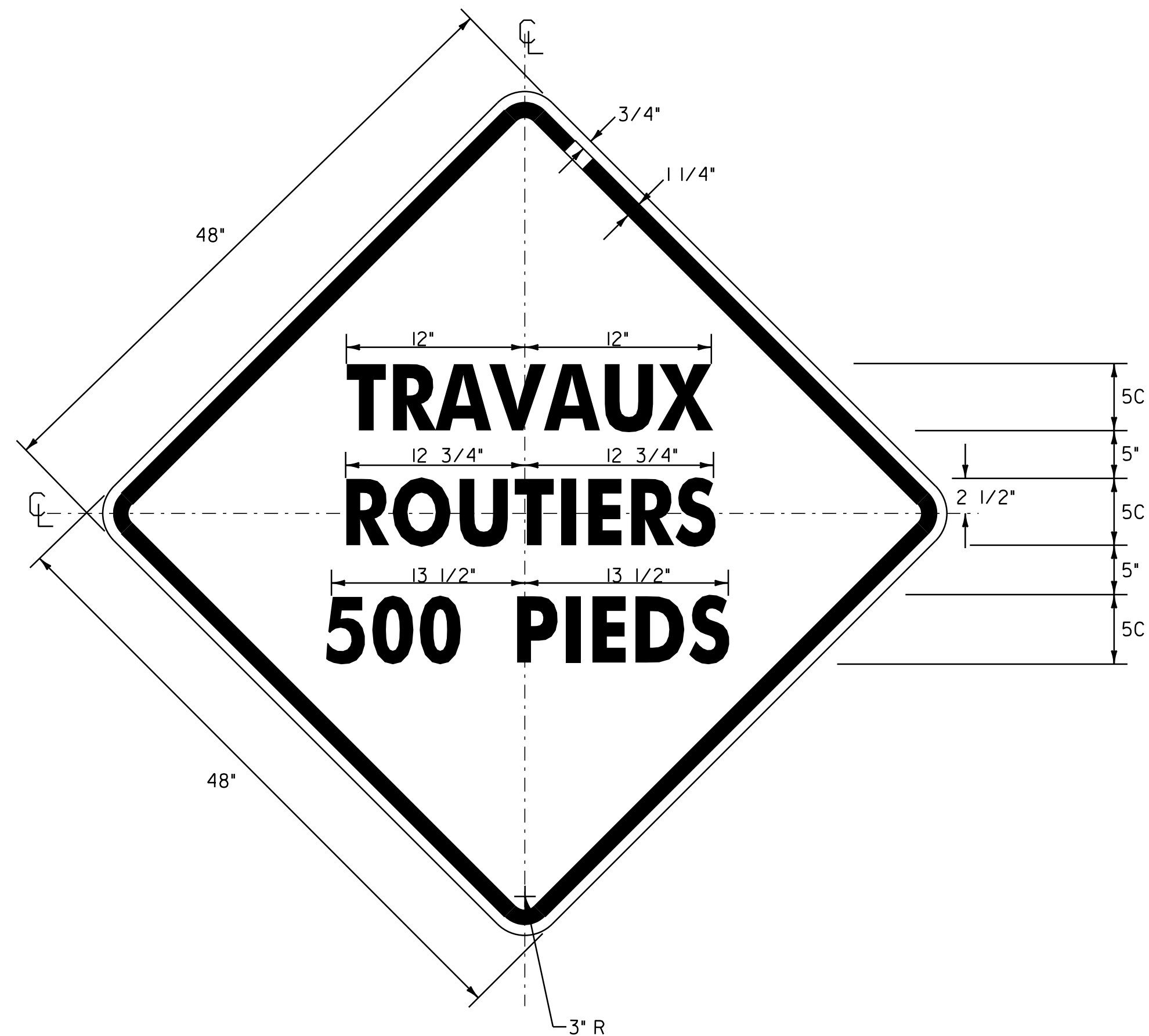


CULVERT LOCATION TABLES SHEET

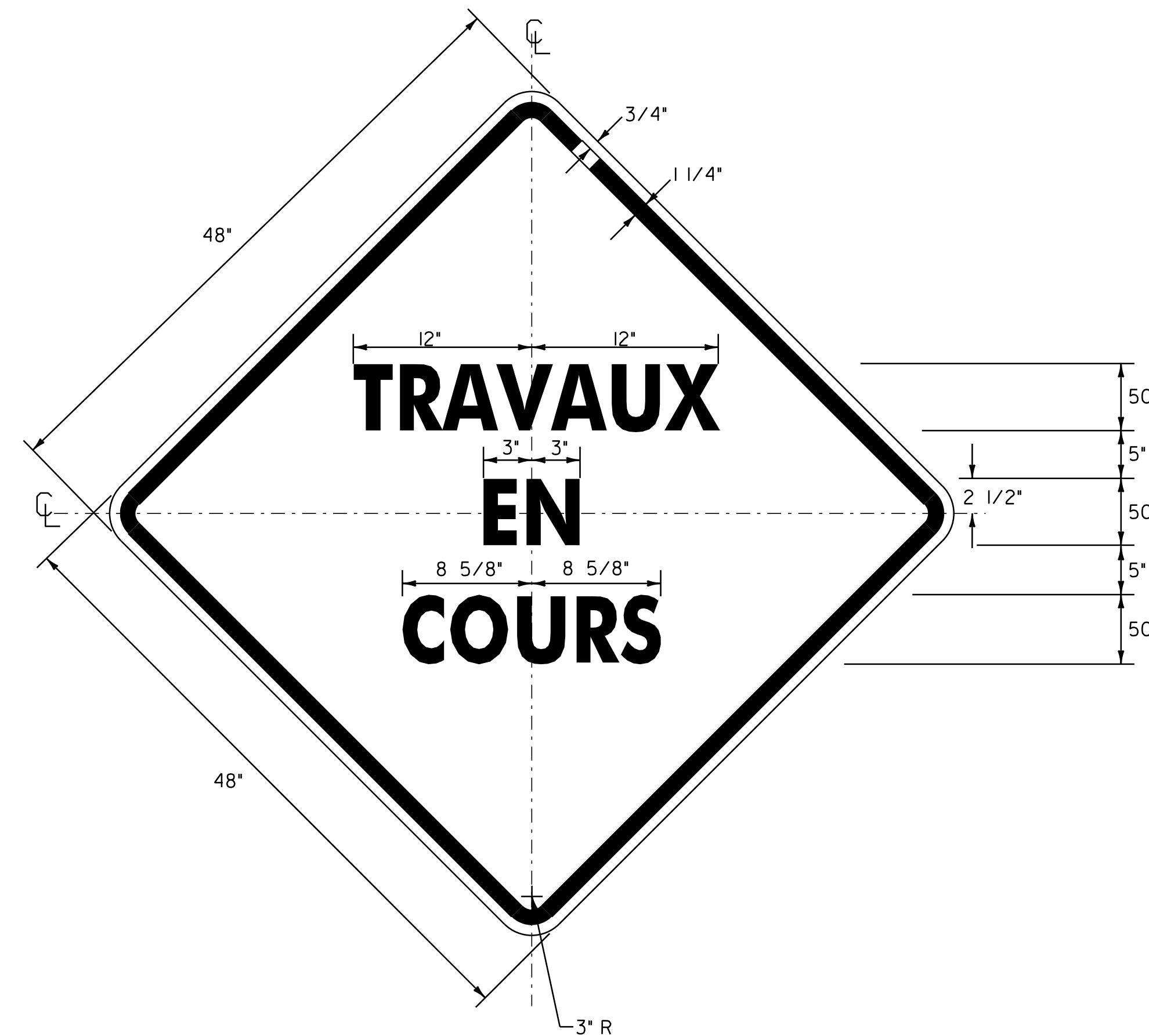
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PROJECT NUMBER: IM 091-3 (1)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200chl.i

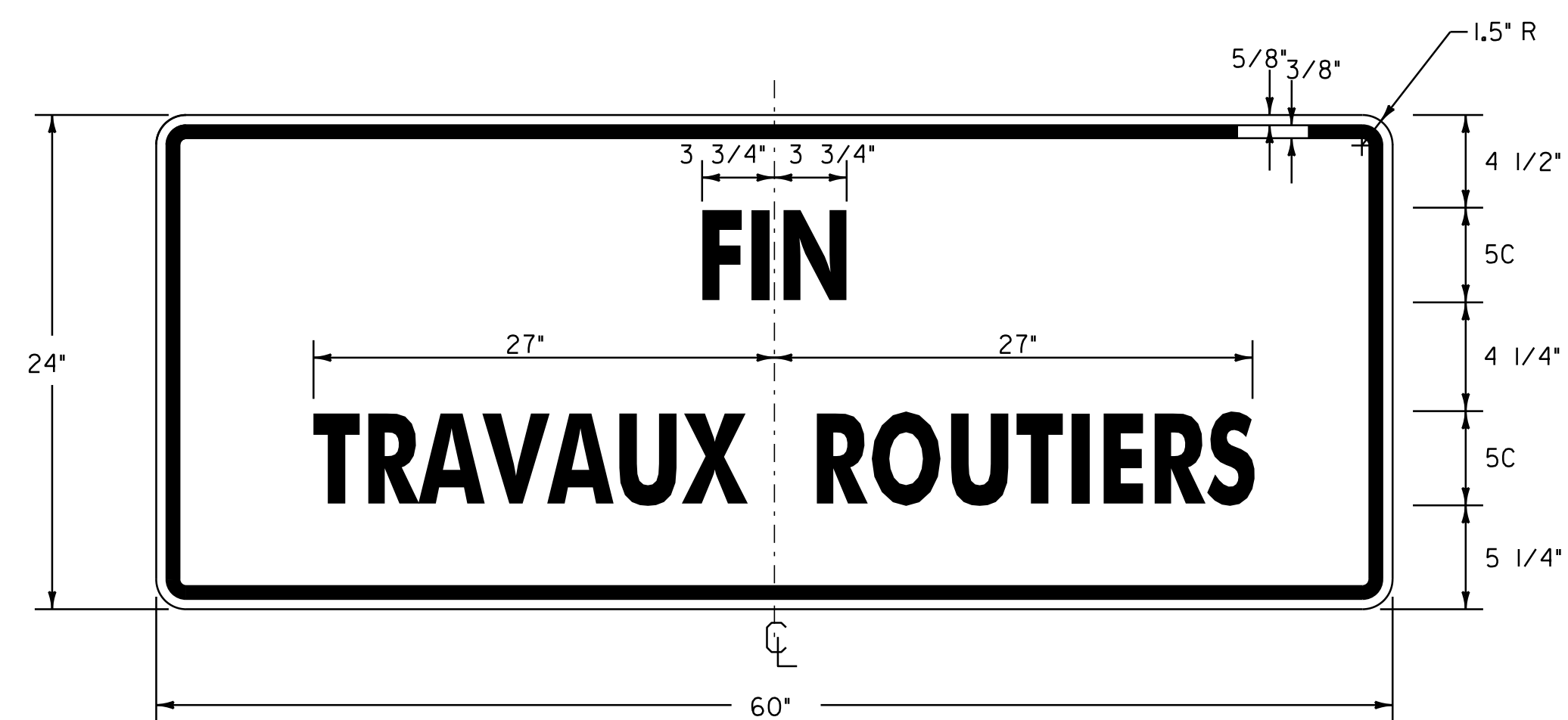
PLOT DATE: 07-SEP-2011 10:29
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 61 OF 63



SEE NOTES ON TEMPORARY TRAFFIC CONTROL PLAN FOR
COLORS & MATERIALS (ENGLISH EQUIVALENT: ROAD WORK 500 FT)



SEE NOTES ON TEMPORARY TRAFFIC CONTROL PLAN FOR
COLORS & MATERIALS (ENGLISH EQUIVALENT: ROAD WORK AHEAD)



SEE NOTES ON TEMPORARY TRAFFIC CONTROL PLAN FOR
COLORS & MATERIALS (ENGLISH EQUIVALENT: END ROAD WORK)

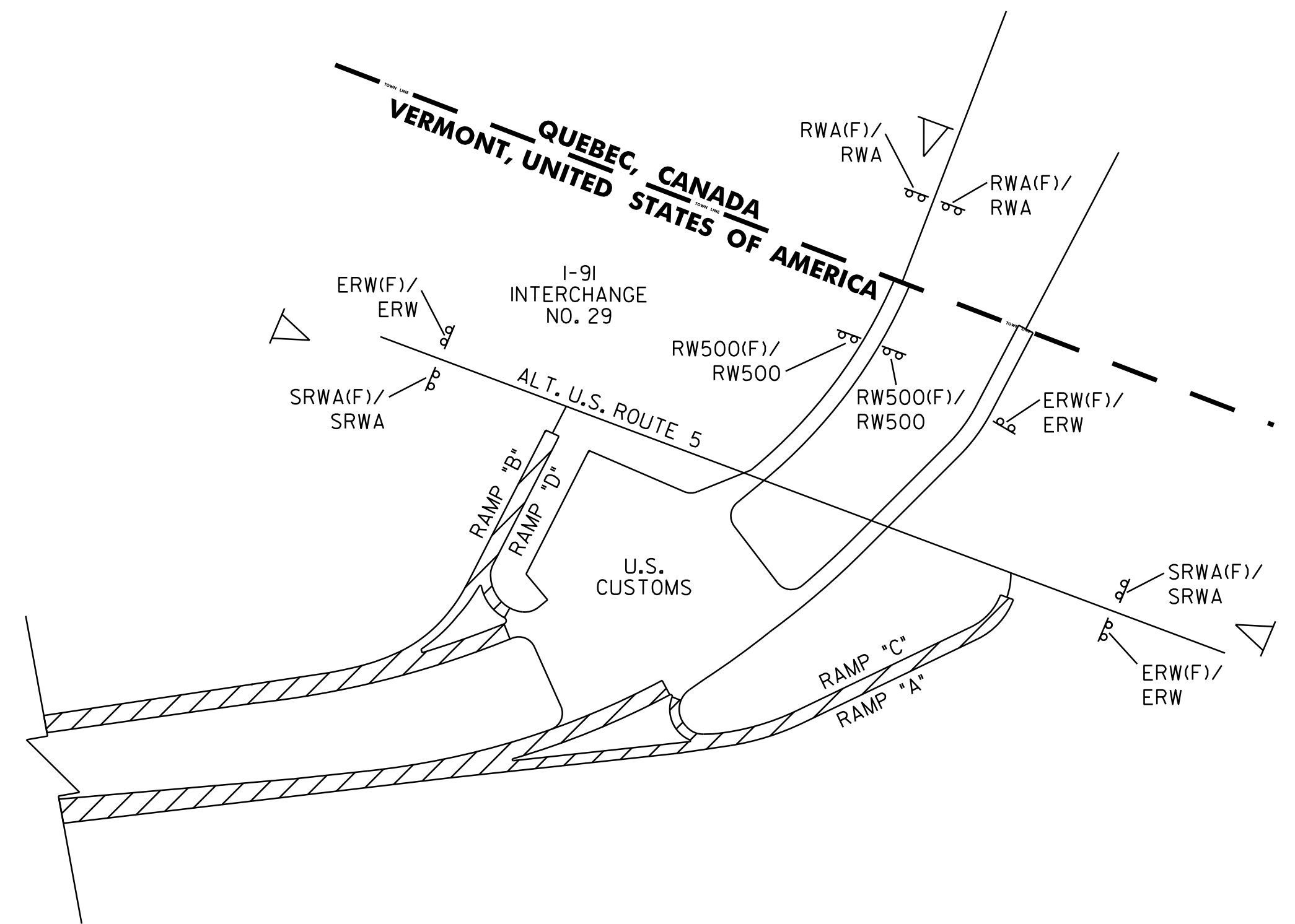
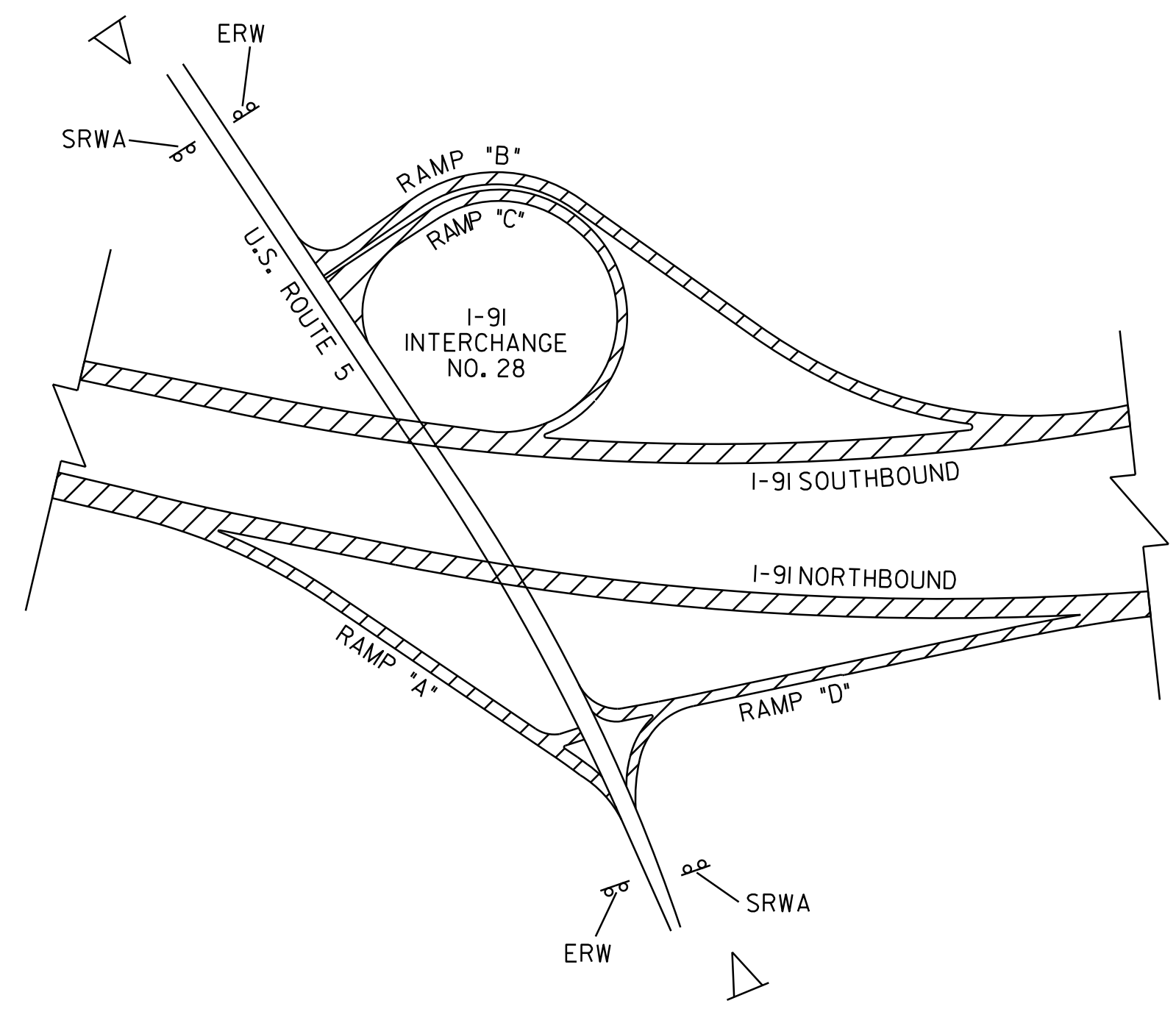
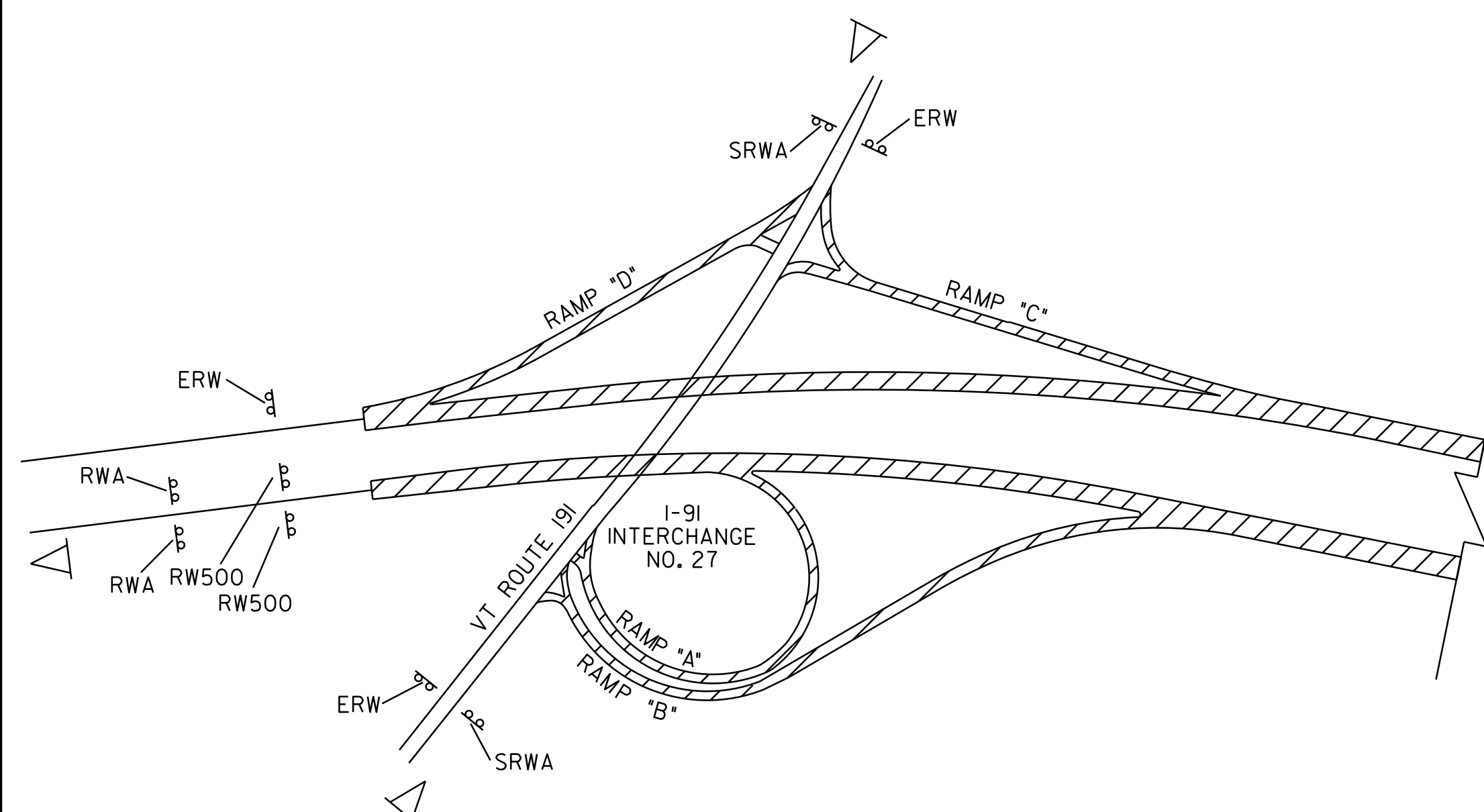
**FRENCH
CONSTRUCTION
SIGN DETAIL
SHEET**

PROJECT NAME: DERBY
PROJECT NUMBER: IM 091-3(46)

FILE NAME: p06a200.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p06a200cs.i

PLOT DATE: 07-SEP-2011 10:29
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 62 OF 63





NOTES:

1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL POSITION PORTABLE CHANGABLE MESSAGE SIGNS (PCMS) WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED, AND THEIR PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER IN ADVANCE FOR APPROVAL. THE COST OF PROVIDING THESE MESSAGE SIGNS SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGABLE MESSAGE SIGN.

FOR THE PCMS INSTALLED IN CANADA, THE FOLLOWING MESSAGES SHALL BE DISPLAYED UTILIZING 3 PHASES ON THE SIGN:

PHASE I: ROAD WORK AHEAD	PHASE II: TRAVAUX DE CONSTRUCTION À PROXIMITÉ	PHASE III: USE CAUTION
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3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED.
4. THE MUTCD 2003 SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKING SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
6. ON VTRANS STANDARD E-103, SIGN W4-2 MAY BE REPLACED WITH W9-2.

7. SEE VAOT STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
8. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
9. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.
10. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
11. RETROREFLECTIVE SHEETING SHALL BE TYPE III OR VIII MINIMUM AS NOTED ON VAOT STANDARD E-100 AND IN THE SPECIAL PROVISIONS.
12. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS OUTLINED IN THE SPECIAL PROVISIONS.
13. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOMS OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.
14. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
15. PAYMENT FOR CONSTRUCTION SIGNING WILL BE MADE UNDER ITEM 641.10 TRAFFIC CONTROL.
16. BARRELS AND CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
17. FOR LANE CLOSURES GREATER THAN 1/2 MILE LONG, PLACE ONE TYPE III BARRICADE ACROSS THE CLOSED LANE AT 1500 FOOT INTERVALS.
18. PERMISSION MUST BE OBTAINED PRIOR TO PLACING CONSTRUCTION SIGNING IN CANADA. FOR THE APPROPRIATE PERMISSION AND PROTOCOL CONTACT: MR. MARC BOUCHARD AT CENTRE DE SERVICE DE SHERBROOKE ET COORDINATION TERRITORIALE DE L'EXPLOITATION, DIRECTION DE L'ESTRIE, 125 CHEMIN GEORGES-VALLIERES, SHERBROOKE (QUEBEC), J1H 0B7, (819) 562-2693 EXT.: 234.
19. THE FRENCH CONSTRUCTION APPROACH SIGNING WILL BE INSTALLED ABOVE THE ENGLISH SIGNS AS DIRECTED BY THE RESIDENT ENGINEER.
20. SEE THE FRENCH CONSTRUCTION SIGN DETAIL SHEET FOR FRENCH SIGN DETAILS AND THEIR ENGLISH EQUIVALENT.

SEE VAOT STANDARDS E-100 AND E-100A FOR SIGN PLACEMENT.

LOCATION	ERW	ERW(F)	RWA	RWA(F)	RW500	RW500(F)	SRWA	SRWA(F)	▶
I-91 NORTH/SOUTH - BEGIN PROJECT	1		2		2				1
VT ROUTE 191	2						2		2
U.S. ROUTE 5	2						2		2
ALT. U.S. ROUTE 5	2	2					2	2	2
I-91 NORTH/SOUTH - END PROJECT	1	1	2	2	2	2			1
TOTAL	8	3	4	2	4	2	6	2	8

LEGEND

- ERW = END ROAD WORK
- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500 FT
- SRWA = SIDE ROAD WORK AHEAD
- ERW(F) = END ROAD WORK (FRENCH)
- RWA(F) = ROAD WORK AHEAD (FRENCH)
- RW500(F) = ROAD WORK 500 FT (FRENCH)
- SRWA(F) = SIDE ROAD WORK AHEAD (FRENCH)
- ▶ = PORTABLE CHANGABLE MESSAGE SIGN



TEMPORARY TRAFFIC CONTROL PLAN SHEET	PROJECT NAME: DERBY	PLOT DATE: 07-SEP-2011 10:29
	PROJECT NUMBER: IM 091-3 (1)	DRAWN BY: STANTEC
	FILE NAME: p06a200.dgn	CHECKED BY: JLL
	PROJECT LEADER: JLL	SHEET 63 OF 63
	DESIGNED BY: STANTEC	
	IPARM FILE: p06a200ttcp.i	