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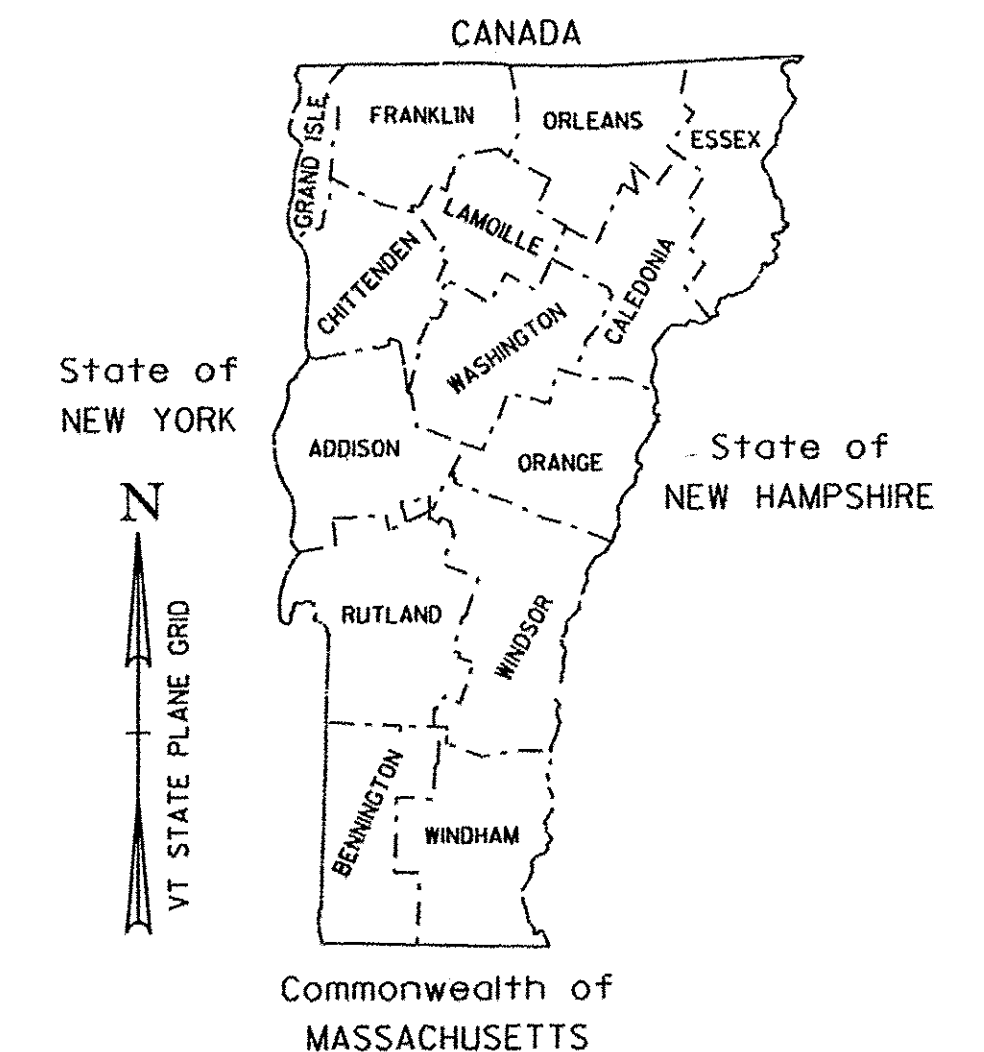
- E-106 TRAFFIC CONTROL MISCELLANEOUS DETAILS 03/01/04
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MAINTENANCE OPERATIONS

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT STATEWIDE NATIONAL HIGHWAY SYSTEM MARKING NHG MARK (206).

LENGTH OF PROJECT 268.98 MILES



PROPOSED IMPROVEMENT NATIONAL HIGHWAY SYSTEM PAVEMENT MARKING

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES
NEW PAVEMENT MARKINGS INCLUDING CENTERLINES,
EDGE LINES, LANE LINES, DASHED AND DOTTED ACCELERATION
AND DECELERATION LANES, GORE MARKINGS, STOP BARS AND
STOP LETTERS, SYMBOLS, AND CROSSWALKS.

RECORD PLANS	
CONTRACTOR:	L&D SAFETY MARKINGS CORP.-BERLIN, VT
RESIDENT ENGINEER:	MARK HAUGHWOUT
CONSTRUCTION BEGAN:	JUNE 24, 2012
CONSTRUCTION COMPLETE:	OCTOBER 29, 2012
RECORD PLANS BY:	MARK HAUGHWOUT & K. KREIS
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY <i>Mark W. Haughwout</i>	RESIDENT ENGINEER
DATE <i>1/24/14</i>	
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.	

VT 78 ALBURGH-SWANTON

VT 289 ESSEX

US 2 BERLIN-DANVILLE

US 7 DORSET-CHARLOTTE

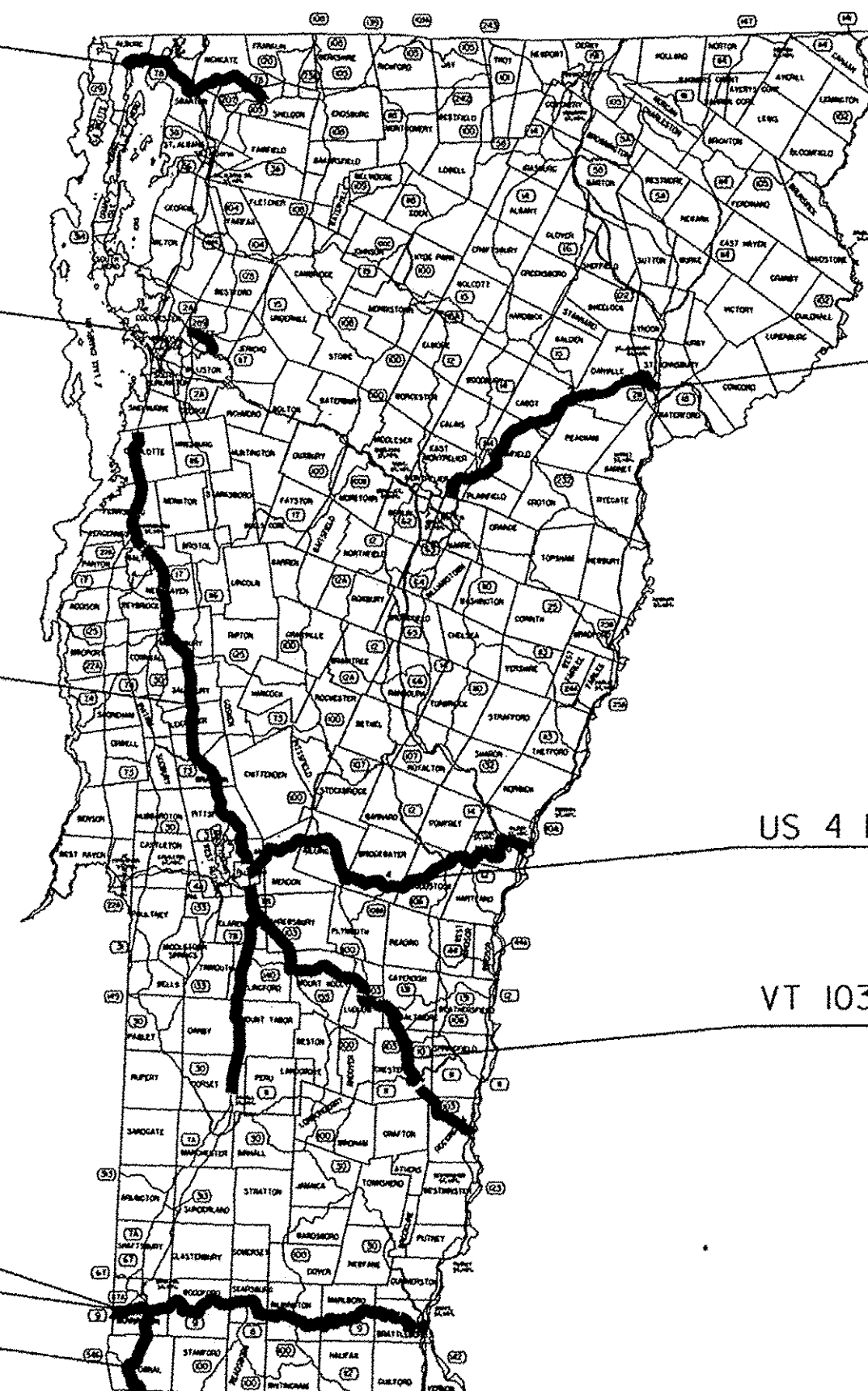
US 4 RUTLAND TOWN-HARTFORD

VT 103 ROCKINGHAM-CLARENDON

VT 279 NY LINE-BENNINGTON

VT 9 NY LINE-NH LINE

US 7 MASS. LINE-BENNINGTON



QUALITY ASSURANCE PROGRAM: LEVEL 1

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
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 :
SURVEYED DATE :

DATUM
VERTICAL
HORIZONTAL

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 2011, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED *[Signature]* DATE *3-13-12*

PROJECT MANAGER : A. GAMBLE

PROJECT NAME : STATEWIDE
PROJECT NUMBER : NHG MARK (206)

SHEET 1 OF 20 SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION

QUANTITY SHEET

[illegible]

SUMMARY OF LONG LINE QUANTITIES BY ROUTE

[illegible]

NOTE: MATERIAL USED FOR PAVEMENT MARKING
PAINT = WATERBORNE TRAFFIC PAINT

ROUTE QUANTITIES

SHEET 1

PROJECT NAME:	STATEWIDE
PROJECT NO.:	NHG MARK (206)

DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002rql.i

PLOT DATE: 12-MAR-2012

DRAWN BY: KAS

SHEET: 3 OF 20

SUMMARY OF LONG LINE QUANTITIES BY ROUTE

ROUTE	TOWN	MM	TO	MM	4' ' WHITE LINE	MATERIAL	4' ' YELLOW LINE	MATERIAL	REMARKS
VT 103	ROCKINGHAM	0.00	-	6.75	70,560	PAINT	0	THERMOPLASTIC	YELLOW THERMO IS STILL GOOD, DO NOT PAINT.*
VT 103	CHESTER	0.00	-	2.57	26,700	PAINT	0	THERMOPLASTIC	YELLOW THERMO IS STILL GOOD, DO NOT PAINT.*
VT 103	CHESTER	4.27	-	9.88	58,840	PAINT	50,060	PAINT	
									*SOME AREAS WERE PAINTED DUE TO FADED LINES.
VT 103	CAVENDISH	0.00	-	3.74	40,050	PAINT	30,955	PAINT	
VT 103	LUDLOW	0.00	-	1.29	13,380	PAINT	12,715	PAINT	
VT 103	LUDLOW	2.86	-	5.78	31,810	PAINT	25,785	PAINT	
VT 103	MT HOLLY	0.00	-	7.86	83,160	PAINT	65,565	PAINT	
VT 103	WALLINGFORD	0.00	-	2.13	22,380	PAINT	21,785	PAINT	
VT 103	SHREWSBURY	0.00	-	4.24	45,170	PAINT	36,425	PAINT	
VT 103	CLARENDON	0.00	-	1.97	20,600	PAINT	14,210	PAINT	
					404,406		275,417		
	TOTAL VT 103				412,650	PAINT	257,500	PAINT	
US 4	RUTLAND TOWN	0.00	-	1.23	16,150	PAINT	12,600	PAINT	
US 4	MENDON	0.00	-	5.93	68,375	PAINT	61,900	PAINT	
US 4	KILLINGTON	0.00	-	8.49	93,390	PAINT	65,811	PAINT	
US 4	BRIDGEWATER	0.00	-	7.50	78,520	PAINT	66,460	PAINT	
US 4	WOODSTOCK	0.00	-	5.65 *	59,219	PAINT	54,704	PAINT	
US 4	WOODSTOCK	7.22	-	9.65	25,300	PAINT	24,940	PAINT	CONTRACTOR APPLIED PAINT MARKINGS TO PAVING PROJECT PERFORMED BY DISTRICT#4 AT WOODSTOCK M.M. 3.369 ON 10/02/12
US 4	HARTLAND	0.00	-	0.77	7,990	PAINT	7,990	PAINT	
US 4	HARTFORD	0.00	-	9.35 *	98,056	PAINT	90,756	PAINT	
					446,078		397,310		
	TOTAL US 4				447,000		385,161		

NOTE: MATERIAL USED FOR PAVEMENT MARKING
PAINT = WATERBORNE TRAFFIC PAINT

ROUTE QUANTITIES SHEET 2	PROJECT NAME: STATEWIDE	
	PROJECT NO.: NHG MARK (206)	
	DESIGN FILE NAME: I2b002.dgn	
	PROJECT MANAGER: A GAMBLE	
	IPARM FILE NAME: I2b002rq2.I	PLOT DATE: 12-MAR-2012
		DRAWN BY: KAS
		SHEET: 4 OF 20

SUMMARY OF LONG LINE QUANTITIES BY ROUTE

[illegible]

NOTE: MATERIAL USED FOR PAVEMENT MARKING
PAINT = WATERBORNE TRAFFIC PAINT

ROUTE QUANTITIES

SHEET 3

PROJECT NAME:	STATEWIDE
PROJECT NO.:	NHG MARK (206)
DESIGN FILE NAME:	I2b002.dgn
PROJECT MANAGER:	A GAMBLE
IPARM FILE NAME:	I2b002r03.1

PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 5 OF 20

SUMMARY OF LONG LINE QUANTITIES BY ROUTE

ROUTE	TOWN	MM	TO	MM	4' ' WHITE LINE	MATERIAL	4' ' YELLOW LINE	MATERIAL	REMARKS
US 7	POWNAL	0.00	-	7.99	85,565	PAINT	77,460	PAINT	
US 7	BENNINGTON	0.00	-	2.16	22,730	PAINT	22,650	PAINT	
US 7	DORSET	1.75	-	6.72	52,340	PAINT	29,995	PAINT	
US 7	MT TABOR	0.00	-	4.18	43,860	PAINT	21,080	PAINT	
US 7	DANBY	0.00	-	2.47	25,960	PAINT	16,795	PAINT	
US 7	WALLINGFORD	0.00	-	6.48	67,510	PAINT	61,915	PAINT	
US 7	RUTLAND TOWN	1.18	-	3.97	30,475	PAINT	26,735	PAINT	
US 7	PITTSFORD	0.00	-	7.59	79,970	PAINT	71,435	PAINT	
US 7	BRANDON	0.00	-	0.70	7,400	PAINT	5,200	PAINT	MM 0.70 BRANDON-3.36 2010 + 2011 PROJECT
US 7	BRANDON	4.35	-	7.45	32,580	PAINT	24,455	PAINT	
US 7	LEICESTER	0.00	-	3.43	36,060	PAINT	22,265	PAINT	
US 7	SALISBURY	0.00	-	4.50	47,280	PAINT	31,610	PAINT	
US 7	MIDDLEBURY	0.00	-	4.28	44,600	PAINT	34,895	PAINT	
US 7	MIDDLEBURY	5.71	-	7.48	18,600	PAINT	15,095	PAINT	
US 7	NEW HAVEN	0.00	-	7.70	82,690	PAINT	64,940	PAINT	
US 7	WALTHAM	0.00	-	1.64	17,760	PAINT	14,750	PAINT	
US 7	FERRISBURGH	0.00	-	7.29	76,780	PAINT	58,860	PAINT	
US 7	CHARLOTTE	0.00	-	2.90	30,540	PAINT	23,850	PAINT	
					897,017		651,757		
	US 7 TOTALS				802,700		623,985		

NOTE: MATERIAL USED FOR PAVEMENT MARKING
PAINT = WATERBORNE TRAFFIC PAINT

ROUTE QUANTITIES SHEET 4	PROJECT NAME: STATEWIDE	
	PROJECT NO. : NHG MARK (206)	
	DESIGN FILE NAME: i2b002.dgn	
	PROJECT MANAGER: A GAMBLE	
	IPARM FILE NAME: i2b002rq4.i	PLOT DATE: 12-MAR-2012
		DRAWN BY: KAS
		SHEET: 6 OF 20

SUMMARY OF HAND WORK BY ROUTE

ROUTE	TOWN	MM	STENCIL	4" WHITE LINE	8" YELLOW LINE	8" WHITE LINE	STOP BAR	LETTER & SYM.	CROSS WALK	REMOVAL	RR XING	REMARKS
VT 9	WOODFORD	0.83	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 9	WOODFORD	1.19	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 9	WOODFORD	4.95	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	SEARSBURG	1.65	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	WILMINGTON	3.00	CROSSWALK	-	-	-	-	-	40 FEET	-	-	
VT 9	WILMINGTON	3.06	STOP BAR	-	-	-	12 FEET	-	-	-	-	JCT TH 8
VT 9	WILMINGTON	3.08	STOP BAR+CROSSWALK	-	-	-	12 FEET	-	40 FEET	-	-	JCT VT 100 NB
VT 9	WILMINGTON	3.10	STOP BAR+CROSSWALK	-	-	-	12 FEET	-	40 FEET	-	-	JCT VT 100 NB
VT 9	WILMINGTON	3.21	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 9	WILMINGTON	3.25	CROSSWALK	-	-	-	-	-	31 FEET	-	-	
VT 9	WILMINGTON	3.30	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 9	WILMINGTON	3.95	ARROW(4) ONLY(2)	230 FEET	160 FEET	-	-	12	-	-	-	JCT SHAWS+RITE AID
VT 9	WILMINGTON	6.90	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	MARLBORO	1.20	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	MARLBORO	3.26	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	MARLBORO	4.15	LANE REDUCTION ARROWS(6)	-	-	-	-	6	-	-	-	EB AND WB TRUCK LANES END
VT 9	MARLBORO	5.50	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 9	MARLBORO	5.75	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	MARLBORO	5.80	SCHOOL(2)	-	-	-	-	12	-	-	-	
VT 9	MARLBORO	6.90	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	BRATTLEBORO	1.35	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 9	BRATTLEBORO	3.23	ARROW(2) ONLY(1)	150 FEET	-	-	-	6	-	-	-	JCT WEST BROOK COURT
VT 9	BRATTLEBORO	3.23	ARROW(3) ONLY(2)	325 FEET	250 FEET	-	-	11	-	-	-	JCT WEST BROOK COURT
VT 9	BRATTLEBORO	3.33	ARROW(2) ONLY(1)	160 FEET	-	-	-	6	-	-	-	JCT WEST GATE DRIVE
VT 9	BRATTLEBORO	3.55	ARROW(8)	-	325 FEET	-	-	8	-	-	-	2-WAY TURN LANE (CUMBY'S)
				345 *	990		54	92	140			
	TOTAL VT 9			865 FEET	735 FEET		36 FEET	115	151 FEET			
VT 78	ALBURGH	0.00	STOP (1)	-	-	-	20 FEET	4	-	-	-	JCT US 2
VT 78	ALBURGH	0.23	STOP (1) AHEAD(1)	-	-	-	-	9	-	-	-	
VT 78	ALBURGH	2.65	RR XING(1)	250 -	-	-	-	-	-	-	1	
VT 78	ALBURGH	2.72	ARROW(2) ONLY(1)	200 FEET	500 FEET	-	-	6	-	-	-	JCT TH 50
VT 78	ALBURGH	2.90	RR XING(1)	1,151 -	-	-	-	-	-	-	1	
VT 78	SWANTON	7.50	ARROW(15) ONLY(10)	1,055 FEET	600 FEET	-	60 FEET	55	40 FEET	-	-	
				1,401	1,348		102	69				
	TOTAL VT 78			1,255 FEET	1,100 FEET		80 FEET	74	40 FEET		2	

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT
* SOME LINES WERE PAINTED BY "LONG LINE CREW".

HAND WORK
QUANTITIES SHEET 1

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)

DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002hwl.I

PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 7 OF 20

SUMMARY OF HAND WORK BY ROUTE

ROUTE	TOWN	MM	STENCIL	4" WHITE LINE	8" YELLOW LINE	8" WHITE LINE	STOP BAR	LETTER & SYM.	CROSS WALK	REMOVAL	RR XING	REMARKS
VT 103	CHESTER	1.72	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 103	CHESTER	1.95	SCHOOL(1)	-	-	-	-	6	-	-	-	
VT 103	CHESTER	7.80	ARROW(5) ONLY(3) YIELD(1)	600 FEET	-	150 FEET	-	22	-	-	-	JCT VT 10
VT 103	CAVENDISH	1.32	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 103	CAVENDISH	2.10		-	-	700 FEET	-	-	-	-	-	
VT 103	CAVENDISH	2.70	RR XING(1)	-	-	-	-	-	-	-	1	
VT 103	CAVENDISH	2.90	RR XING(1)	-	-	-	-	-	-	-	1	
VT 103	LUDLOW	4.05	ARROW(6) ONLY(4)	400 FEET	-	-		22		-	-	JCT VT 100 NB
VT 103	LUDLOW	5.62	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 103	MT HOLLY	2.40	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 103	SHREWSBURY	2.18	RR XING(1)	-	-	-	-	-	-	-	1	
VT 103	SHREWSBURY	2.45	RR XING(1)	-	-	-	-	-	-	-	1	
VT 103	SHREWSBURY	3.38	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
VT 103	SHREWSBURY	3.79	RR XING(1)	-	-	-	-	-	-	-	1	
VT 103	SHREWSBURY	3.95	RR XING(1)	-	-	-	-	-	-	-	1	
VT 103	CLARENDON	3.95	YIELD MARKINGS(5)	-	150 FEET	250 FEET	15 FEET	5	-	-	-	JCT US 7
				326	215	995	0	52				
	TOTAL VT 103			1,000 FT	150 FT	1,100 FT	15 FT	73			6	
US 2	PLAINFIELD	1.00	CROSSWALK	-	-	-	-	-	22 FEET	-	-	PLAINFIELD HEALTH CENTER
US 2	MARSHFIELD	7.68	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	MARSHFIELD	7.78	ARROW(2) ONLY(1)	100 FEET	-	-	-	6	-	-	-	JCT VT 232
US 2	CABOT	2.45	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	CABOT	5.14	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	DANVILLE	1.73	CROSSWALK	-	-	-	-	-	22 FEET	-	-	WEST DANVILLE STORE
US 2	DANVILLE	2.63	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	DANVILLE	3.41	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	DANVILLE	3.46	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	DANVILLE	5.48	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 2	ST JOHNSBURY	1.16	ARROW(3) ONLY(2) STOP(2)	-	-	-	24 FEET	19	-	-	-	JCT TH 7
US 2	ST JOHNSBURY	1.88	STOP(1)	-	-	-	18 FEET	4	-	-	-	IN MEDIAN AT NB OFF RAMP
US 2	ST JOHNSBURY	2.62	STOP(1)	-	-	-	18 FEET	4	-	-	-	IN MEDIAN AT SB OFF RAMP
US 2	ST JOHNSBURY	2.90	ARROW(5) ONLY(4)	-	-	-	-	21	-	-	-	JCT VT 2B
				305			80	74	62			
	TOTAL US 2			100 FT			60 FT	75	44 FT			

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT

HAND WORK
QUANTITIES SHEET 2

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)

DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002hw2.I
PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 8 OF 20

SUMMARY OF HAND WORK BY ROUTE

ROUTE	TOWN	MM	STENCIL	4" WHITE LINE	8" YELLOW LINE	8" WHITE LINE	STOP BAR	LETTER & SYM.	CROSS WALK	REMOVAL	REMARKS
US 4	RUTLAND TOWN	0.20	ARROW(7) ONLY(3) DBLARROWS(5)	450 FEET	160 FEET	310 FEET	55 FEET	29	-	-	JCT HOME DEPOT
US 4	RUTLAND TOWN	0.35	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	
US 4	RUTLAND TOWN	1.06	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	
US 4	MENDON	0.00	ARROW(4) ONLY(2)	400 FEET	610 FEET	-	-	12	-	-	JCT TOWN LINE RD
US 4	MENDON	0.50	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	
US 4	MENDON	1.25	ARROW(2) ONLY(1)	250 FEET	1000 FEET	-	-	6	-	-	JCT MEADOWLAKE DRIVE
US 4	KILLINGTON	0.55	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	
US 4	KILLINGTON	0.85	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	
US 4	KILLINGTON	1.13	STOP (2) AHEAD(1)	-	-	250 FEET	12 FEET	13	-	-	JCT JUGHANDLE
US 4	KILLINGTON	2.20	ARROW(3) ONLY(2)	300 FEET	1250 FEET	950 FEET	-	11	-	-	JCT VT 100 NB
US 4	KILLINGTON	2.28	ARROW(3) ONLY(2)	250 FEET	-	-	-	11	-	-	JCT VT 100 NB
US 4	KILLINGTON	2.34	ARROW(7) ONLY(5)	825 FEET	850 FEET	-	-	27	-	-	JCT KILLINGTON ACCESS RD
US 4	KILLINGTON	2.60	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	
US 4	BRIDGEWATER	7.20	SCHOOL(1)	-	-	-	-	6	-	-	
US 4	BRIDGEWATER	7.28	CROSSWALK	-	-	-	-	-	30 FEET	-	
US 4	BRIDGEWATER	7.37	SCHOOL(1)	-	-	-	-	6	-	-	
US 4	BRIDGEWATER	7.47	CROSSWALK	-	-	-	-	-	30 FEET	-	
US 4	WOODSTOCK	3.10	ARROW(2) ONLY(1)	200 FEET	200 FEET	-	-	6	-	-	JCT TH 35 (COVERED BRIDGE)
US 4	WOODSTOCK	4.45	SCHOOL(1)	-	-	-	-	6	-	-	
US 4	WOODSTOCK	4.58	ARROW(2) ONLY(1)	200 FEET	150 FEET	-	-	6	-	-	JCT WOODSTOCK HIGH SCHOOL
US 4	WOODSTOCK	4.68	CROSSWALK	-	-	-	-	-	30 FEET	-	
US 4	WOODSTOCK	4.72	SCHOOL(1)	-	-	-	-	6	-	-	
US 4	WOODSTOCK	7.05	CROSSWALK	-	-	-	-	-	30 FEET	-	
US 4	HARTFORD	3.20	CROSSWALK	-	-	-	-	-	30 FEET	-	QUECHEE GORGE BRIDGE
US 4	HARTFORD	3.27	CROSSWALK	-	-	-	-	-	30 FEET	-	QUECHEE GORGE BRIDGE
US 4	HARTFORD	3.40	CROSSWALK	-	-	-	-	-	30 FEET	-	QUECHEE WELCOME CENTER
US 4	HARTFORD	3.95	ARROW(2) ONLY(1)	250 FEET	275 FEET	-	-	6	-	-	JCT TH 51
US 4	HARTFORD	5.10	ARROW(2) ONLY(1)	250 FEET	-	-	-	6	-	-	JCT TH 49
US 4	HARTFORD	5.86	ARROW(2) ONLY(1)	275 FEET	-	-	-	6	-	-	JCT QUECHEE ST HWY (I-89 SB)
US 4	HARTFORD	6.50	ARROW(2) ONLY(1)	250 FEET	225 FEET	-	-	6	-	-	JCT I-89 NB
US 4	HARTFORD	9.20	STOP(1) AHEAD(1)	-	-	-	-	9	-	-	
US 4	HARTFORD	9.35	STOP(1) YIELD MARKINGS(10)	100 FEET	50 FEET	250 FEET	12 FEET	22	-	-	JCT US 5
			ARROW(2) DBL ARROW(3)								
				3,802	4,317	1,919	80	152	0		
	TOTAL US 4			4,000 FT	4,770 FT	1,760 FT	79 FT	226	210 FT		

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT

HAND WORK QUANTITIES SHEET 3	PROJECT NAME: STATEWIDE	
	PROJECT NO.: NHG MARK (206)	
	DESIGN FILE NAME: i2b002.dgn	
	PROJECT MANAGER: A GAMBLE	
	IPARM FILE NAME: i2b002hw3.I	PLOT DATE: 12-MAR-2012
		DRAWN BY: KAS
		SHEET: 9 OF 20

SUMMARY OF HAND WORK BY ROUTE

ROUTE	TOWN	MM	STENCIL	4" WHITE LINE	8" YELLOW LINE	8" WHITE LINE	STOP BAR	LETTER & SYM.	CROSS WALK	REMOVAL	RR XING	REMARKS
US 7	POWNAL	1.86	ARROW(8) ONLY(7)	700 FEET	500 FEET	-	-	36	-	-	-	JCT VT 346
US 7	POWNAL	2.10	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	POWNAL	4.45	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	POWNAL	4.75	ARROW(2) ONLY(1)	175 FEET	500 FEET	-	-	6	-	-	-	JCT BARBER POND RD
US 7	POWNAL	4.85	ARROW(2) ONLY(1)	175 FEET	200 FEET	-	-	6	-	-	-	JCT NORTH POWNAL RD
US 7	POWNAL	5.14	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	POWNAL	5.37	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	POWNAL	6.65	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	BENNINGTON	3.80	ARROW(3) ONLY(2)	-	-	-	-	11	-	-	-	JCT VETERANS HOSPITAL
US 7	SHAFTSBURY	2.25	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	SHAFTSBURY	4.45	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	SHAFTSBURY	4.70	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	SUNDERLAND	5.05	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	SUNDERLAND	6.60	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	SUNDERLAND	6.61	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	MANCHESTER	3.95	LANE REDUCTION ARROWS(3)	-	-	-	-	0	-	-	-	2012 SURF(29) DO NOT PAINT
US 7	MANCHESTER	7.30	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	DORSET	0.70	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	DORSET	1.00	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	DORSET	1.32	RAILROAD CROSSING	-	-	-	-		-	-	1	
US 7	DORSET	1.53	ARROW(2) ONLY(1)	-	-	-	-	6	-	-	-	JCT VT 7A
US 7	DORSET	1.55	LANE REDUCTION ARROWS(2)	-	-	-	-	2	-	-	-	
US 7	DORSET	1.63	RAILROAD CROSSING	-	-	-	-	-	-	-	1	
US 7	DORSET	5.20	ARROW(6) ONLY(4)	575 FEET	500 FEET	-	-	22	-	-	-	JCT EMERALD LAKE STATE PARK
US 7	WALL ING FORD	5.42	STOP BAR CROSSWALK	-	-	-	22 FEET	-	60 FEET	-	-	JCT VT 140
US 7	CLARENDON	0.75	ARROW(5) ONLY(3) STOP(2)	-	-	-	60 FEET	25	-	-	-	JCT VT 7B
US 7	CLARENDON	1.16	ARROW(4) ONLY(2) STOP(2)	-	-	-	26 FEET	20	-	-	-	JCT TH 26 (BUMP RD)
US 7	CLARENDON	1.46	ARROW(10) ONLY(5) STOP(2)	-	-	-	26 FEET	38	-	-	-	JCT VT 7B (MIDDLE RD)
US 7	CLARENDON	2.43	NO REPAIR TO THERMAL NEEDED	-	-	-	-	-	-	-	-	PARKING AREA THERMAL
US 7	CLARENDON	2.54	NO REPAIR TO THERMAL NEEDED	-	-	-	-	-	-	-	-	PARKING AREA THERMAL
US 7	CLARENDON	3.18	SIGNAL(2) AHEAD(2)	-	-	-	-	22	-	-	-	
US 7	CLARENDON	3.34	ARROW(9) ONLY(6)	-	-	-	72 FEET	33	-	-	-	JCT VT 103
US 7	CLARENDON	3.56	SIGNAL(2) AHEAD(2)	-	-	-	-	22	-	-	-	
US 7	CLARENDON	4.77	ARROW(5) ONLY(3)	-	-	-	-	17	-	-	-	JCT VT 7B
US 7	CLARENDON	5.05	SIGNAL(2) AHEAD(2)	-	-	-	-	22	-	-	-	
	SHEET TOTALS			1,625 FEET	1,700 FEET	-	206 FEET	318	60 FEET	-	2	

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT

HAND WORK
QUANTITIES SHEET 4

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002hw4.I
PLOT DATE: 15-MAR-2012
DRAWN BY: KAS
SHEET: 10 OF 20

SUMMARY OF HAND WORK BY ROUTE

ROUTE	TOWN	MM	STENCIL	4" WHITE LINE	8" YELLOW LINE	8" WHITE LINE	STOP BAR	LETTER & SYM.	CROSS WALK	REMOVAL	RR XING	REMARKS
US 7	CLARENDON	5.20	ARROW(6) ONLY(3)	-	-	-	84 FEET	18	-	-	-	JCT NORTH SHREWSBURY RD
US 7	CLARENDON	5.35	SIGNAL(2) AHEAD(2)	-	-	-	-	22	-	-	-	
US 7	CLARENDON	5.54	ARROW(2) ONLY(1)	-	-	-	-	6	-	-	-	
US 7	CLARENDON	5.58	SIGNAL(2) AHEAD(2)	-	-	-	-	22	-	-	-	
US 7	CLARENDON	5.60	ARROW(3) ONLY(2)	-	-	-	-	11	-	-	-	JCT TRACTOR SUPPLY
US 7	RUTLAND TOWN	0.11	ARROW(5) ONLY(3)	-	-	-	72 FEET	17	-	-	-	JCT WINCREST RD
US 7	RUTLAND TOWN	0.36	ARROW(9) ONLY(6) YIELD(1)	-	-	-	96 FEET	38	-	-	-	JCT US 4 WB
US 7	RUTLAND TOWN	0.68	ARROW(5) ONLY(3)	-	-	-	84 FEET	17	-	-	-	JCT DIAMOND RUN MALL
US 7	RUTLAND TOWN	0.80	ARROW(8) ONLY(5)	-	-	-	86 FEET	28	75 FEET	-	-	JCT GREEN MTN PLAZA
US 7	RUTLAND TOWN	0.87	ARROW(2)	-	-	-	-	2	-	-	-	TWO-WAY TURN LANE ARROWS
US 7	RUTLAND TOWN	0.91	ARROW(2)	-	-	-	-	2	-	-	-	TWO-WAY TURN LANE ARROWS
US 7	RUTLAND TOWN	0.95	ARROW(2)	-	-	-	-	2	-	-	-	TWO-WAY TURN LANE ARROWS
US 7	RUTLAND TOWN	0.99	ARROW(2)	-	-	-	-	2	-	-	-	TWO-WAY TURN LANE ARROWS
US 7	RUTLAND TOWN	1.03	ARROW(2)	-	-	-	-	2	-	-	-	TWO-WAY TURN LANE ARROWS
US 7	RUTLAND TOWN	1.06	ARROW(2)	-	-	-	-	2	-	-	-	TWO-WAY TURN LANE ARROWS
US 7	RUTLAND TOWN	1.14	ARROW(4)	-	-	-	70 FEET	4	-	-	-	JCT COLD RIVER RD
US 7	RUTLAND TOWN	1.46	ARROW(6) DBLARROW(6)	-	-	-	70 FEET	18	-	-	-	JCT POST RD
US 7	RUTLAND TOWN	1.61	SIGNAL(2) AHEAD(2)	-	-	-	-	22	-	-	-	
US 7	RUTLAND TOWN	1.65	8' ' WHITE LINE	100 FEET	-	350 FEET	-	-	-	-	-	JCT EAST PITTSFORD RD
US 7	RUTLAND TOWN	3.50	ARROW(3) ONLY(2)	200 FEET	-	-	-	11	-	-	-	JCT PINNACLE HILL RD
US 7	PITTSFORD	0.89	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	PITTSFORD	2.64	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	PITTSFORD	2.80	8' ' WHITE LINE	-	-	325 FEET	-	-	-	-	-	JCT VT 3
US 7	PITTSFORD	2.90	CROSSWALK	-	-	-	-	-	25 FEET	-	-	
US 7	PITTSFORD	3.34	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	PITTSFORD	3.42	CROSSWALK	-	-	-	-	-	25 FEET	-	-	
US 7	PITTSFORD	3.55	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	PITTSFORD	3.87	CROSSWALK	-	-	-	-	-	25 FEET	-	-	
US 7	PITTSFORD	5.02	ARROW(6) ONLY(4)	775 FEET	600 FEET	-	-	22	-	-	-	
US 7	BRANDON	0.51	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	BRANDON	4.40	ARROW(2)	175 FEET	200 FEET	-	-	2	-	-	-	JCT MCDONALDS
US 7	BRANDON	5.35	ARROW(6) ONLY(4)	525 FEET	1,315 FEET	-	-	22	-	-	-	JCT TH 7
US 7	LEICESTER	1.35	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	LEICESTER	1.58	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	MIDDLEBURY	1.23	ARROW(3) ONLY(2)	450 FEET	250 FEET	190 FEET	-	11	-	-	-	JCT VT 125 EAST
	SHEET TOTALS			2,225 FEET	2,365 FEET	865 FEET	562 FEET	339	150 FEET	-	-	

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT

HAND WORK
QUANTITIES SHEET 5

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002hw5.I
PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: II OF 20

SUMMARY OF HAND WORK BY ROUTE

ROUTE	TOWN	MM	STENCIL	4" WHITE LINE	8" YELLOW LINE	8" WHITE LINE	STOP BAR	LETTER & SYM.	CROSS WALK	REMOVAL	RR XING	REMARKS
US 7	MIDDLEBURY	1.29	LANE REDUCTION ARROWS(2)	-	-	-	-	2	-	-	-	
US 7	MIDDLEBURY	3.85	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	-	
US 7	MIDDLEBURY	3.96	ARROW(9) ONLY(6) DBLARROW(2)	1,000 FEET	600 FEET	-	48 FEET	37	60 FEET	-	-	JCT MCDONALDS
US 7	MIDDLEBURY	4.08	ARROW(4) ONLY(2)	300 FEET	550 FEET	-	48 FEET	12	60 FEET	-	-	JCT CITIZENS BANK
US 7	MIDDLEBURY	4.20	ARROW(4) ONLY(1) DBLARROW(2)	250 FEET	275 FEET	-	-	12	-	-	-	JCT CHITTENDEN BANK
US 7	MIDDLEBURY	4.23	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	-	
US 7	MIDDLEBURY	6.55	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	MIDDLEBURY	6.73	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	NEW HAVEN	0.30	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	NEW HAVEN	1.86	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	NEW HAVEN	3.68	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	NEW HAVEN	4.73	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	NEW HAVEN	5.35	ARROW(3) ONLY(2)	200 FEET	450 FEET	-	-	11	-	-	-	JCT VT 17 EAST
US 7	NEW HAVEN	5.36	RR XING (1)	-	-	-	-	-	-	-	1	
US 7	NEW HAVEN	5.47	ARROW(2) ONLY(1)	200 FEET	675 FEET	-	-	6	-	-	-	JCT VT 17 WEST
US 7	NEW HAVEN	5.60	RR XING (1)	-	-	-	-	-	-	-	1	
US 7	NEW HAVEN	5.87	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	WALTHAM	1.25	LANE REDUCTION ARROWS(3)	-	-	-	-	3	-	-	-	
US 7	FERRISBURGH	0.20	ARROW(3) ONLY(3)	625 FEET	-	-	-	15	-	-	-	JCT FERRISBURGH ST HWY
US 7	FERRISBURGH	0.50	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	-	
US 7	FERRISBURGH	0.64	ARROW(3) ONLY(2)	700 FEET	-	-	60 FEET	11	-	-	-	JCT MONKTON RD
US 7	FERRISBURGH	0.69	RR XING (1)	-	-	-	-	-	-	-	1	
US 7	FERRISBURGH	0.77	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	-	
US 7	FERRISBURGH	0.93	RR XING (1)	-	-	-	-	-	-	-	1	
US 7	FERRISBURGH	1.40	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	-	
US 7	FERRISBURGH	1.50	ARROW(5) ONLY(3) YIELD(1)	600 FEET	-	200 FEET	36 FEET	32	-	-	-	JCT VT 22A
			AHEAD(1) YIELD MARKINGS(5)									
US 7	FERRISBURGH	1.70	SIGNAL(1) AHEAD(1)	-	-	-	-	11	-	-	-	
US 7	FERRISBURGH	3.07	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	FERRISBURGH	3.12	ARROW(2) ONLY(2)	300 FEET	-	-	-	10	-	-	-	JCT MIDDLE BROOK RD
US 7	FERRISBURGH	3.16	SCHOOL(1)	-	-	-	-	6	-	-	-	
US 7	FERRISBURGH	6.95	ARROW(2) ONLY(2)	275 FEET	-	-	-	10	-	-	-	JCT STAGE RD
	SHEET TOTALS			4,450 FEET	2,550 FEET	200 FEET	192 FEET	266	120 FEET	-	4	

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT

HAND WORK
QUANTITIES SHEET 6

PROJECT NAME: STATEWIDE	
PROJECT NO.: NHG MARK (206)	
DESIGN FILE NAME: I2b002.dgn	PLOT DATE: 15-MAR-2012
PROJECT MANAGER: A GAMBLE	DRAWN BY: KAS
IPARM FILE NAME: I2b002hw6.I	SHEET: 12 OF 20

SUMMARY OF HAND WORK BY ROUTE

[illegible]

NOTE: ALL HAND WORK IS DONE WITH WATERBORNE TRAFFIC PAINT

HAND WORK

QUANTITIES SHEET 7

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002hw7.1

PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 13 OF 20

SUMMARY BY LIMITED ACCESS INTERCHANGE OF QUANTITIES & MATERIALS

TOWN	ROUTE	MM	EXIT	DIR	ROADWAY TYPE	6" WHITE LINE	MTL	6" YELLOW LINE	MTL	12" WHITE LINE	MTL	LETTER & SYM.	MTL	STOP BAR	MTL	REM	4" WHITE LINE	CROSS WALK	4" YELLOW LINE	REMARKS
VT 289 LIMITED ACCESS HIGHWAY																				
ESSEX	VT 289	7.86	7	WB	OFF RAMP	-	-	-	-	-	-	24	P	35	P	130	-	-	-	SIGNAL(1) AHEAD(1) ARROW(4) ONLY(2) WRONG WAY ARROW(1)
ESSEX	VT 289	8.69	7	EB	ON RAMP	-	-	-	-	-	-	3	P	-	-	-	-	-	-	LANE REDUCTION ARROWS(3)
ESSEX	VT 289	9.35	9	EB	OFF+ON RAMP	-	-	-	-	-	-	21	P	30	P	-	-	40	-	SIGNAL(1) AHEAD(1) YIELD(1) STOP(1) WRONG WAY ARROW(1)
		9.35	9	WB	OFF+ON RAMP	-	-	-	-	-	-	21	P	30	P	-	-	-	-	SIGNAL(1) AHEAD(1) YIELD(1) STOP(1) WRONG WAY ARROW(1)
ESSEX	VT 289	10.13	10	EB	OFF+ON RAMP	-	-	-	-	-	-	22	P	20	P	-	-	-	-	SIGNAL(1) AHEAD(1) YIELD(2) WRONG WAY ARROW(1)
		10.13	10	WB	OFF+ON RAMP	-	-	-	-	-	-	22	P	15	P	-	-	75	-	
ESSEX	VT 289	10.13	11	EB	U-TURN RAMP	-	-	-	-	-	-	14	P	25	P	-	-	-	-	STOP(2) AHEAD(1) WRONG WAY ARROW(1)
ESSEX	VT 289	11.83	12	EB	OFF RAMP	-	-	-	-	-	-	19	P	20	P	-	-	-	-	SIGNAL(1) AHEAD(1) ARROW(2) YIELD(1) WRONG WAY ARROW(1)
	VT 289	11.83	12	WB	ON RAMP	107	-	-	-	-	-	6	P	-	-	-	-	-	-	YIELD(1) WRONG WAY ARROW(1)
												154		176				221		
TOTAL VT 289										183		152		175		130		115		
VT 279 LIMITED ACCESS HIGHWAY																				
BENNINGTON	VT 279		1	EB	OFF+ON RAMP	3,290	P	3,090	P	1,975	P	27	P	50	P	40	-	-	-	SIGNAL(1) AHEAD(1) YIELD(1) ARROW(2) ONLY(2) WRONG WAY ARROW(1)
			1	WB	OFF+ON RAMP	2,260	P	2,060	P	1,400	P	27	P	50	P	40	-	-	-	SIGNAL(1) AHEAD(1) YIELD(1) ARROW(2) ONLY(2) WRONG WAY ARROW(1)
						2,021														
TOTAL VT 279						5,550		5,150		3,375		54		100		80				
US 7 LIMITED ACCESS HIGHWAY																				
MANCHESTER	US 7	4.68	4	NB	ON RAMP	750	P	750	P	600	P	5	P	-	-	-	-	-	-	YIELD(1)
MANCHESTER	US 7	4.68	4	SB	OFF RAMP	1,000	P	1,000	P	550	P	30	P	40	P	-	-	-	-	STOP(3) AHEAD(1) ARROW(4) ONLY(2) WRONG WAY ARROW(1)
										205										
TOTAL US 7						1,750		1,750		1,150		35		40						
SHELBURN	US 7	2.60	~							ADDED										
S. BURLINGTON	US 7	0.90				28,765		28,263		BY C.O.D./S.A.#1, DATED 8-23-13										

NOTE: MAT. = MATERIAL USED FOR PAVEMENT MARKING
P=WATERBORNE TRAFFIC PAINT

REMOVAL=ALIGNING ARROWS AND ONLY'S TO 2009 MUTCD

INTERCHANGE QUANTITIES
AND MATERIALS
SHEET

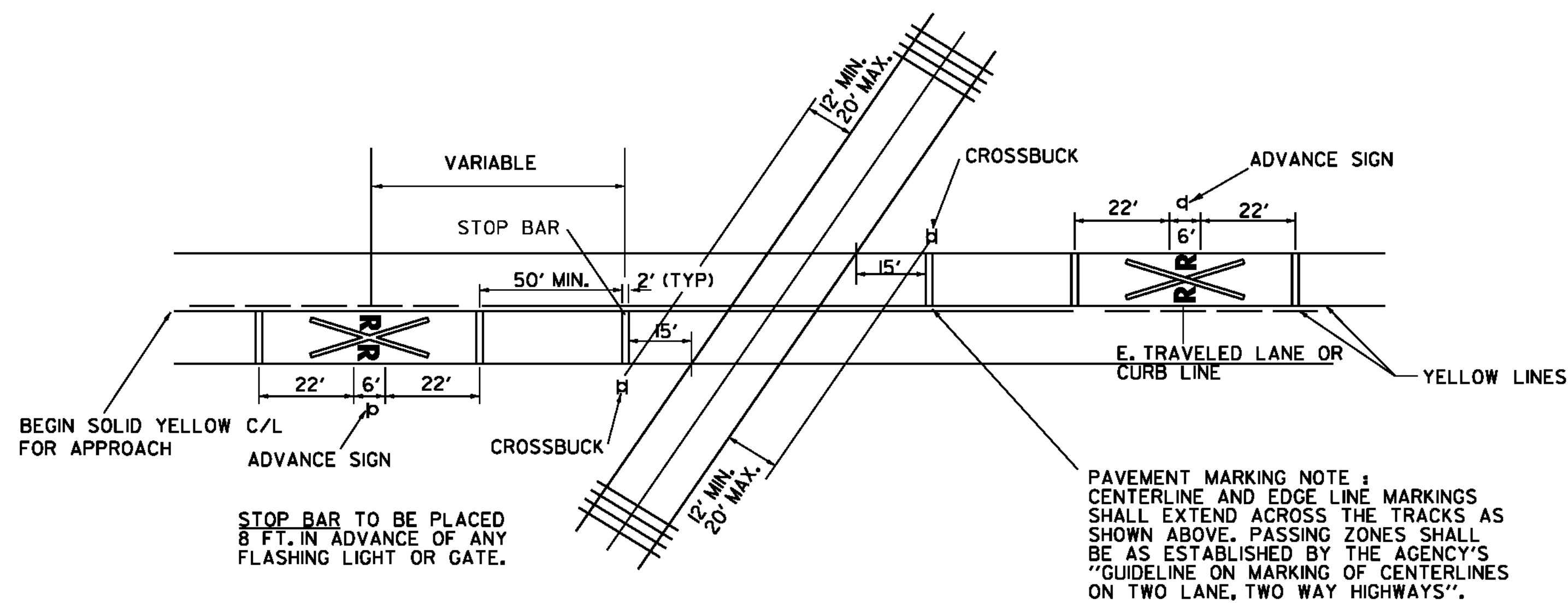
PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b0021q.i
PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 14 OF 20

NOTES:

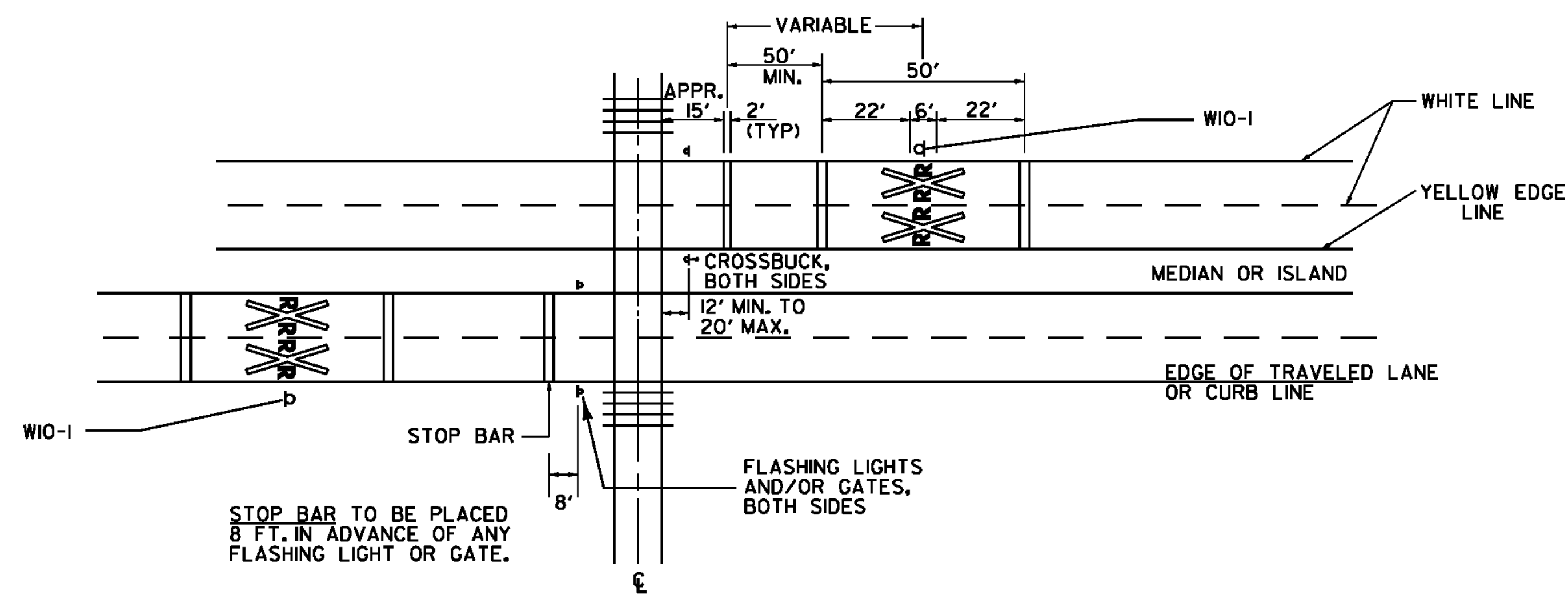
1.
- ALL MARKINGS SHALL BE PLACED WHERE EXISTING MARKINGS ARE LOCATED EXCEPT WHERE EXISTING MARKINGS OR STENCILS DO NOT CONFORM WITH DETAIL DRAWINGS. MARKINGS THAT DO NOT CONFORM WITH DETAIL DRAWINGS SHALL BE REMOVED AND REPLACED BY NEW MARKINGS.
2.
- MARKINGS INCLUDE TURN AND CLIMBING LANES, 8 INCH AND 12 INCH WHITE GORE MARKINGS AND 8 INCH YELLOW GORE MARKINGS.
3.
- EXISTING CENTERLINE MARKINGS LOCATED IN CENTERLINE RUMBLE STRIPS. FOR THE FOLLOWING LOCATIONS THE PAINT APPLICATOR WILL NEED TO BE MODIFIED TO PAINT OVER RUMBLE STRIPS:

US 7 BRANDON MM 5.68 TO LEICESTER MM 1.25
US 7 LEICESTER MM 1.97 TO MIDDLEBURY MM 1.12
US 4 MENDON MM 1.25 TO KILLINGTON MM 2.05
VT 9 MARLBORO MM 0.60 TO BRATTLEBORO MM 1.60
4.
- ALL MARKINGS DONE ON US 7 IN SHELBURNE AND SO. BURLINGTON SHALL BE DONE AT NIGHT WITH UTO'S. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

PAVEMENT MARKING NOTES	PROJECT NAME: STATEWIDE	
	PROJECT NO.: NHG MARK (206)	
	DESIGN FILE NAME: I2b002.dgn	PLOT DATE: 12-MAR-2012
	PROJECT MANAGER: A GAMBLE	DRAWN BY: KAS
	IPARM FILE NAME: I2b002pmn.I	SHEET: 15 OF 20



RAILROAD CROSSING PAVEMENT MARKINGS 2 LANE HIGHWAY PAVED



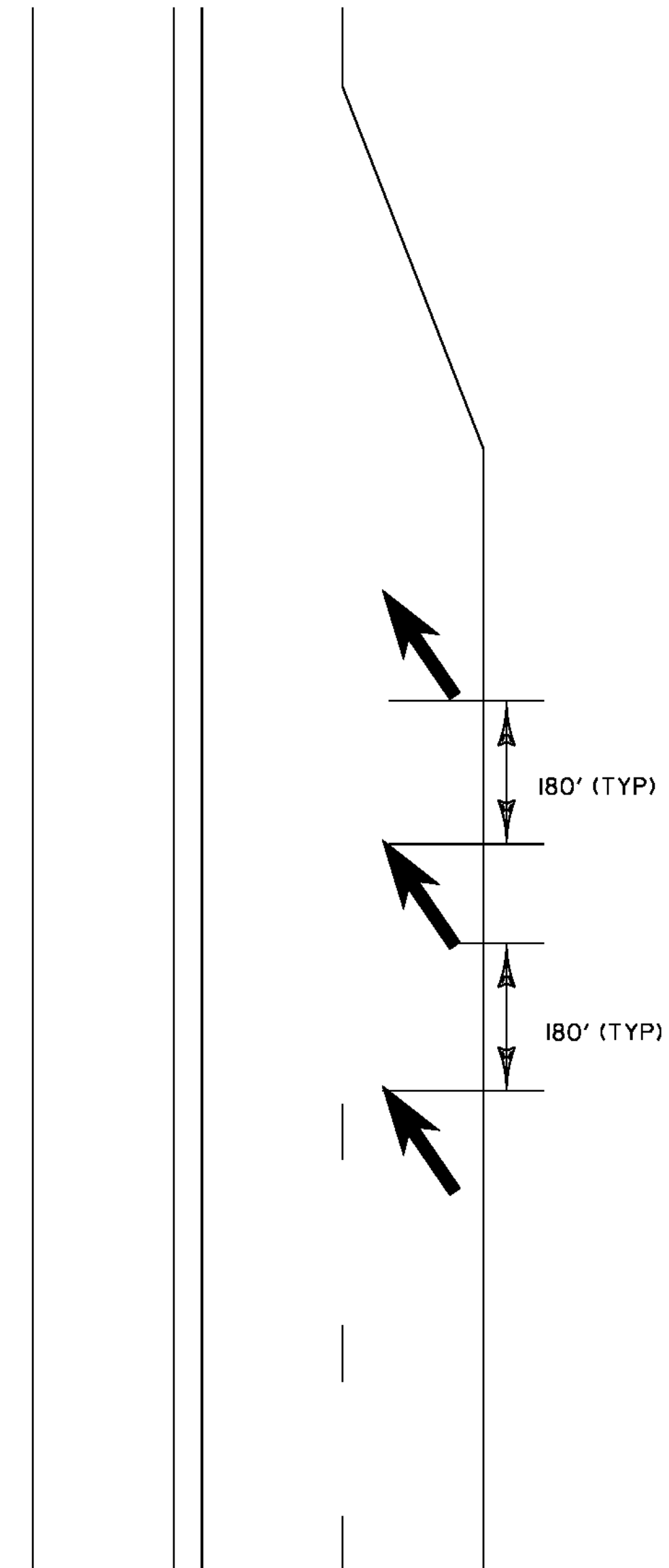
RAILROAD CROSSING PAVEMENT MARKINGS 4 LANE HIGHWAY PAVED

NOTES

1. PAVEMENT MARKINGS

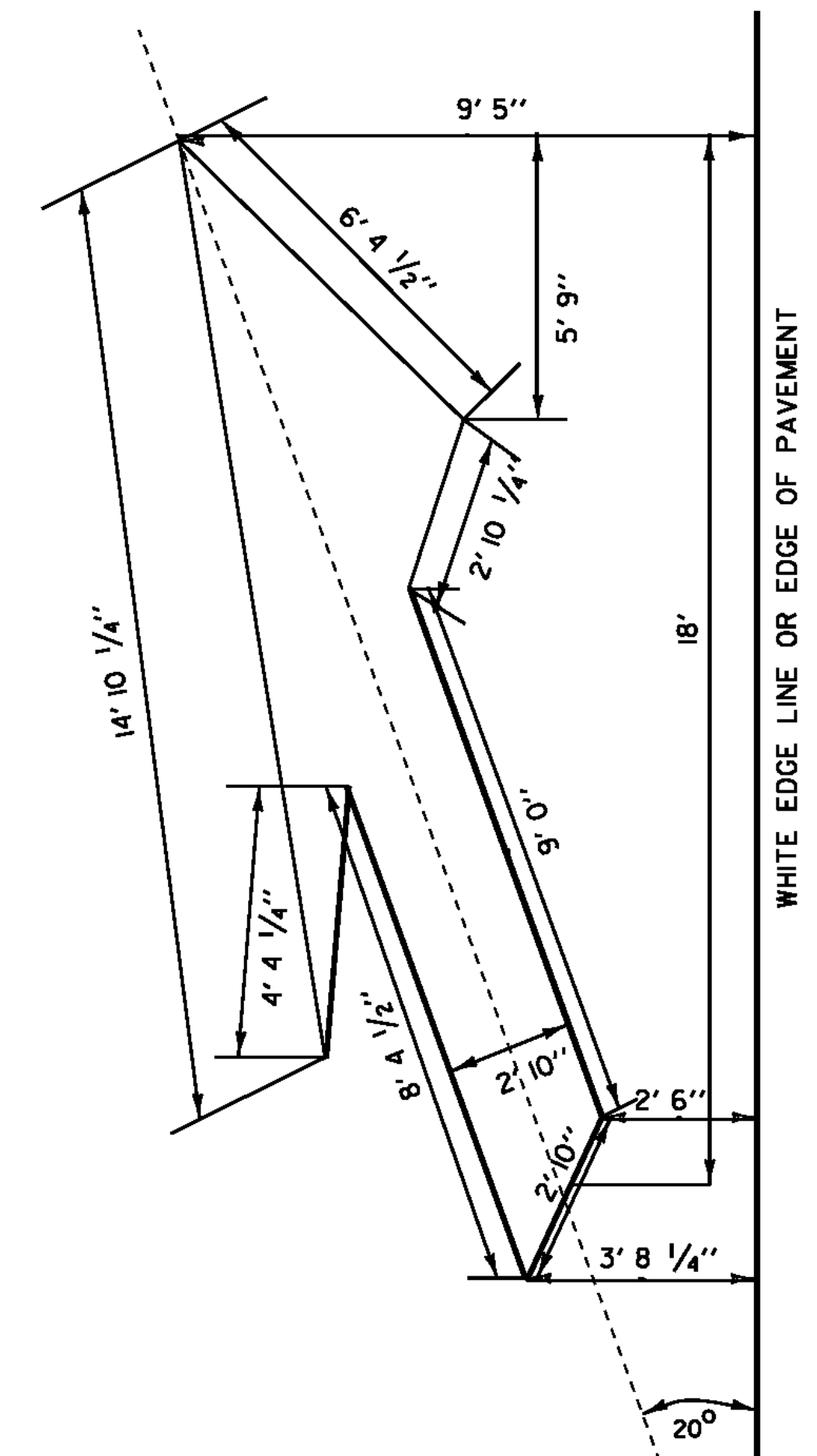
THESE MARKINGS SHALL BE PLACED, IF PHYSICALLY FEASIBLE, ON ALL PAVED APPROACHES TO RAILROAD CROSSINGS, WHERE THERE ARE SIGNALS AND/OR AUTOMATIC GATE AND AT ALL OTHER CROSSINGS WHERE THE PREVAILING SPEED OF HIGHWAY TRAFFIC IS 40 M.P.H. OR GREATER.

ALL MARKINGS SHALL BE WHITE EXCEPT FOR MEDIAN EDGELINES AND CENTERLINE ON 2 LANE ROADS WHICH SHALL BE YELLOW. THE RAILROAD CROSSING SYMBOL SHALL CONSIST OF THE "X" FLANKED BY TWO "R"'s AND THREE 24" STOP BARS; TWO BRACKETING THE "X", ONE AT THE CROSSING.



FIRST LANE REDUCTION ARROW SHALL BE PLACED OPPOSITE THE LAST DASH. ARROWS TO BE PLACED EVERY 180'(MAX.) BETWEEN LAST DASH AND BEGINNING OF LANE TAPER. FOR LEFT LANE USE MIRROR IMAGE.

LANE REDUCTION TRANSITION MARKINGS



LANE DROP ARROW

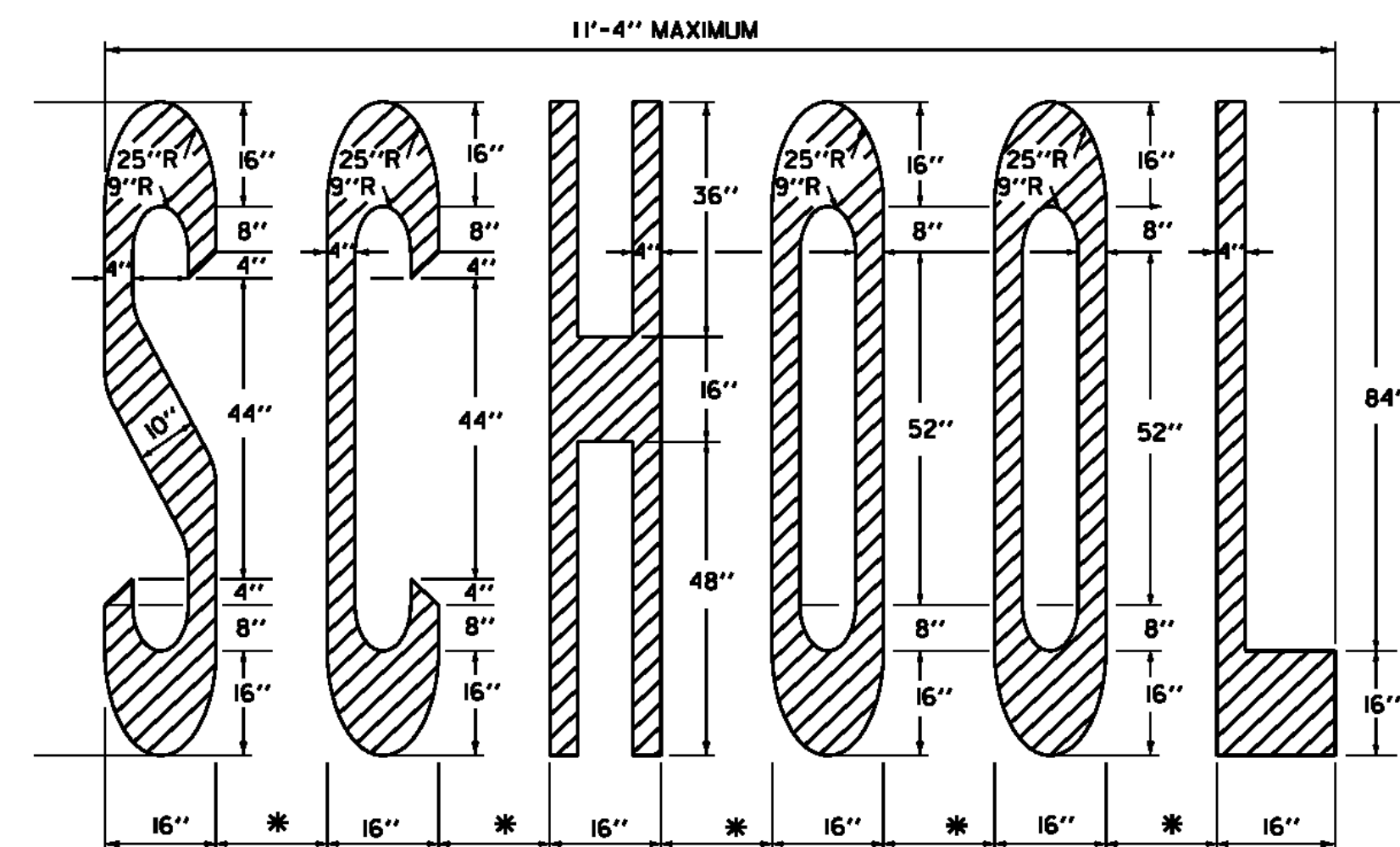
PAVEMENT MARKING DETAILS

NOT TO SCALE

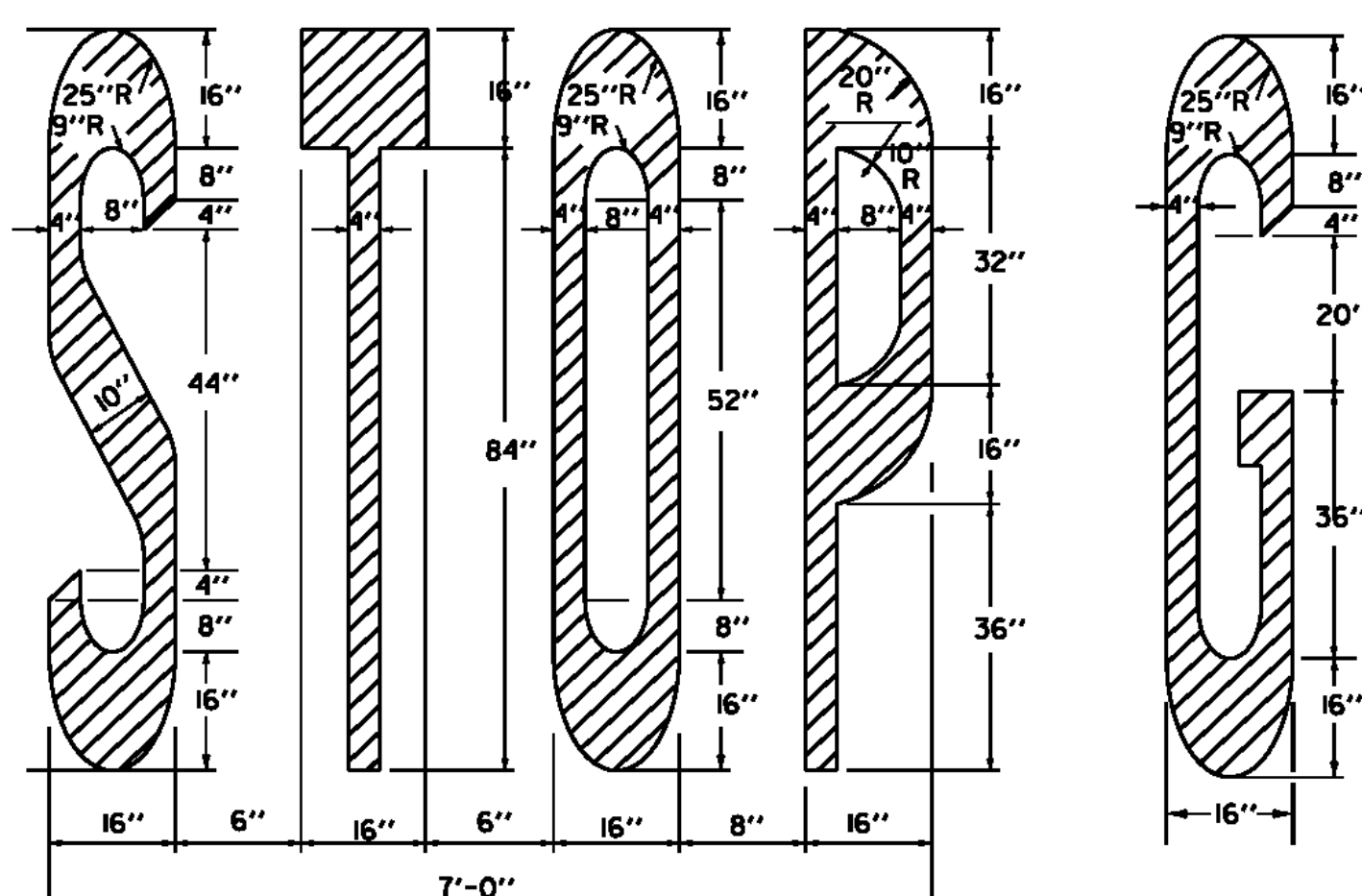
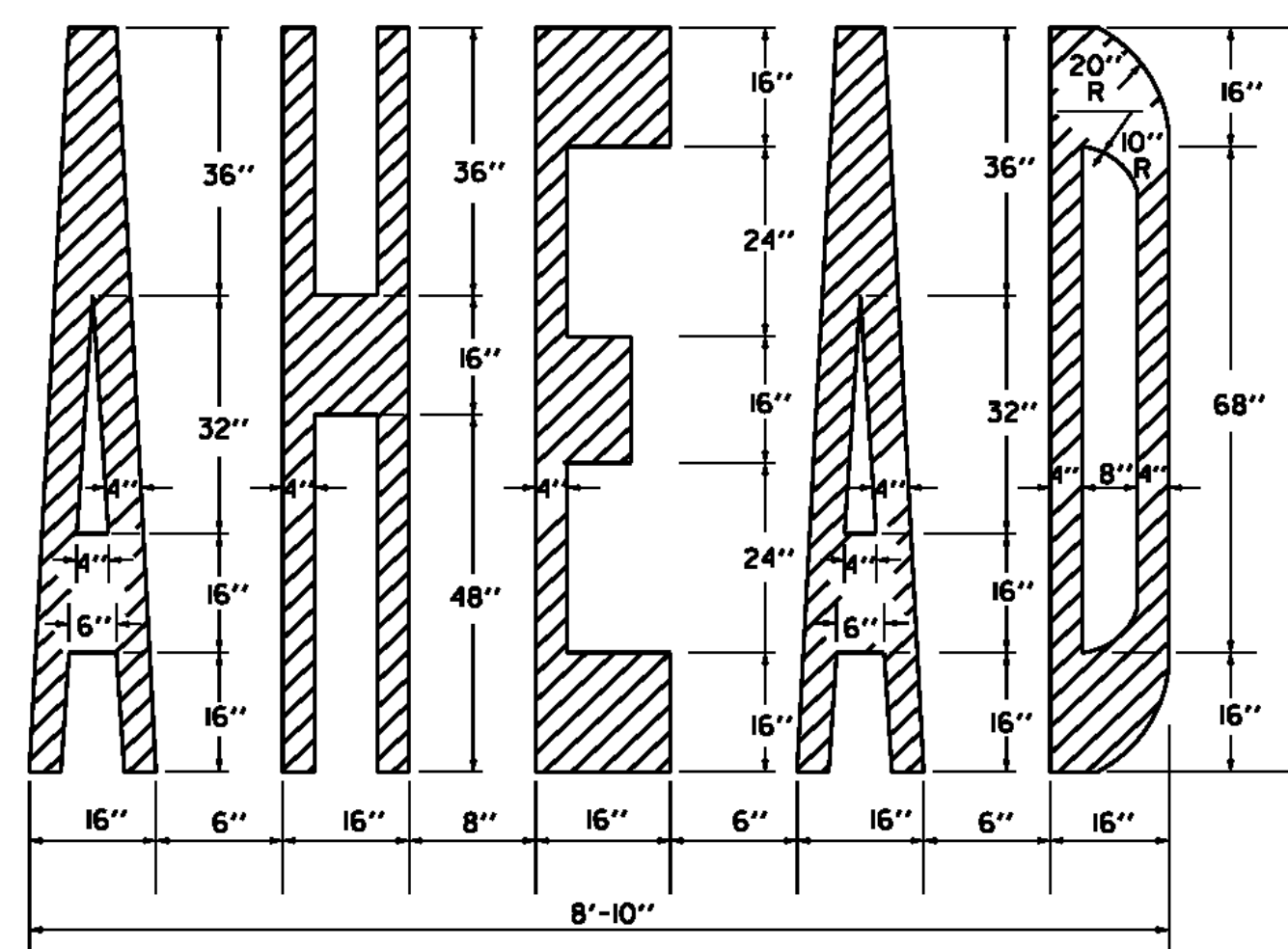
PAVEMENT MARKING DETAILS SHEET 1

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002pml.l

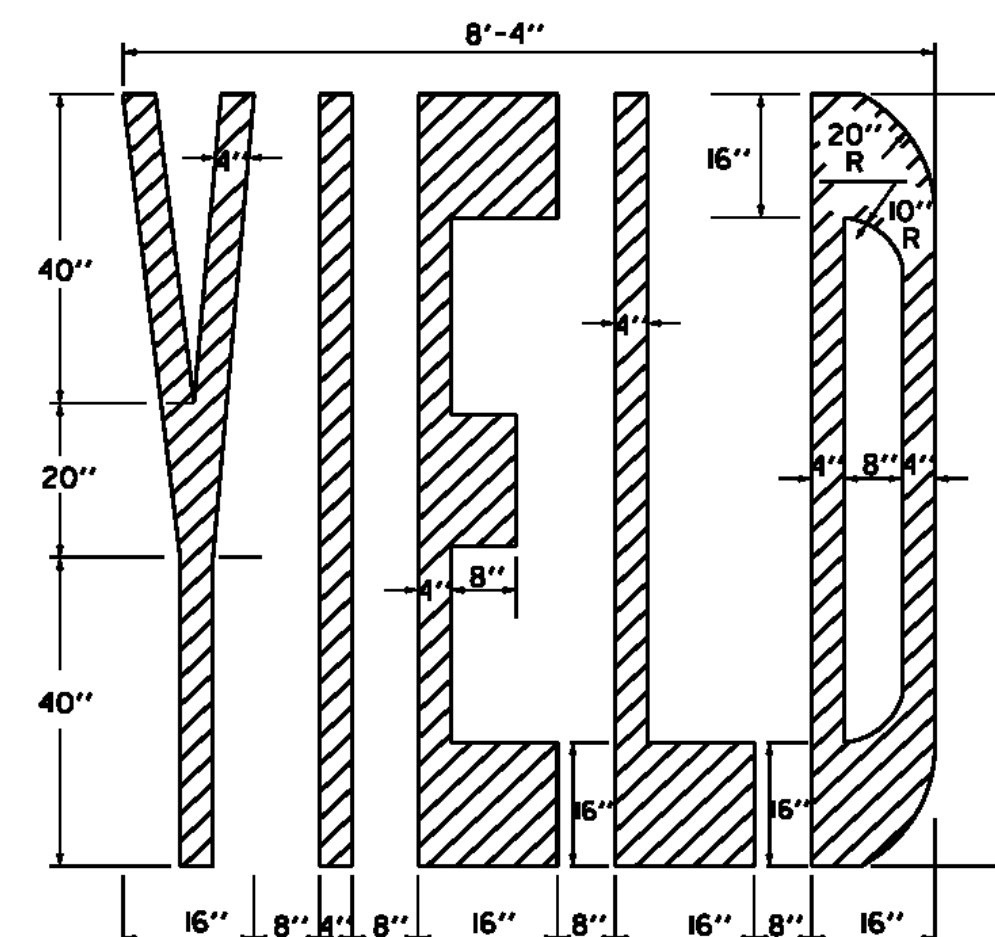
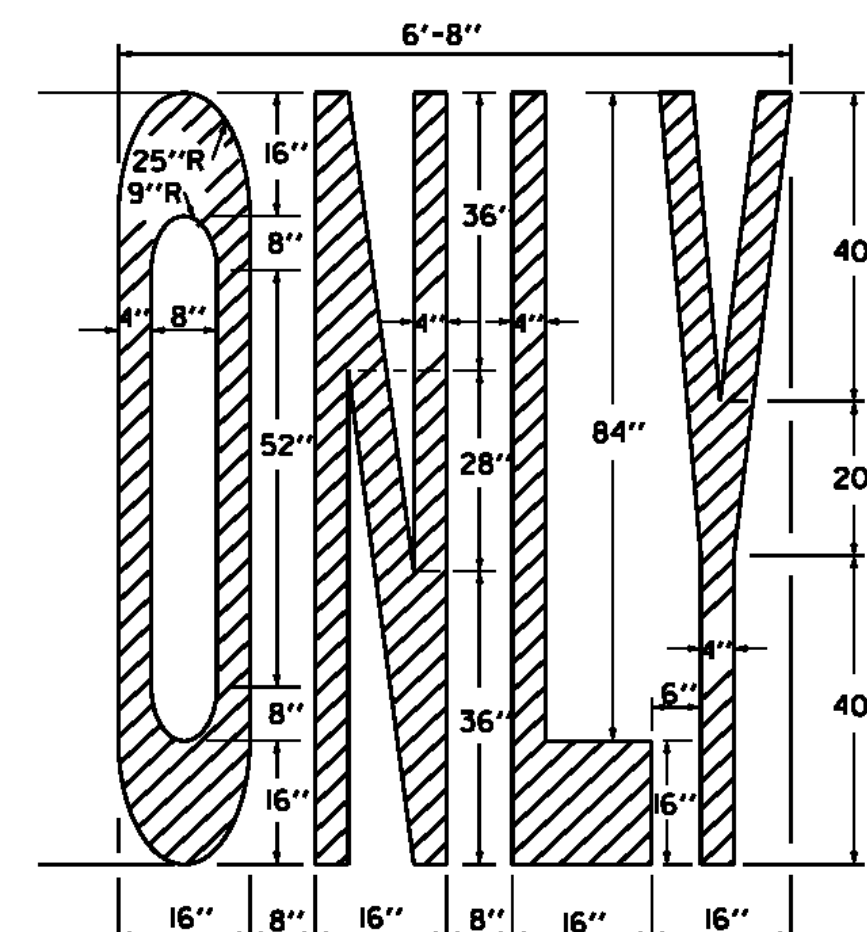
PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 16 OF 20



* (4'-8'') - ADJUST TO AVAILABLE PAVEMENT WIDTH



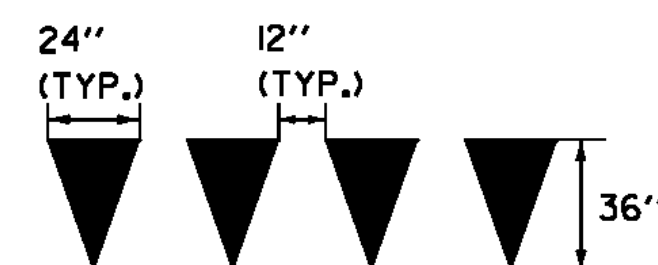
LETTER IN WORD MARKING AND YIELD LINE DETAILS



9' - 6"
SIGNAL
6" LETTER SPACING

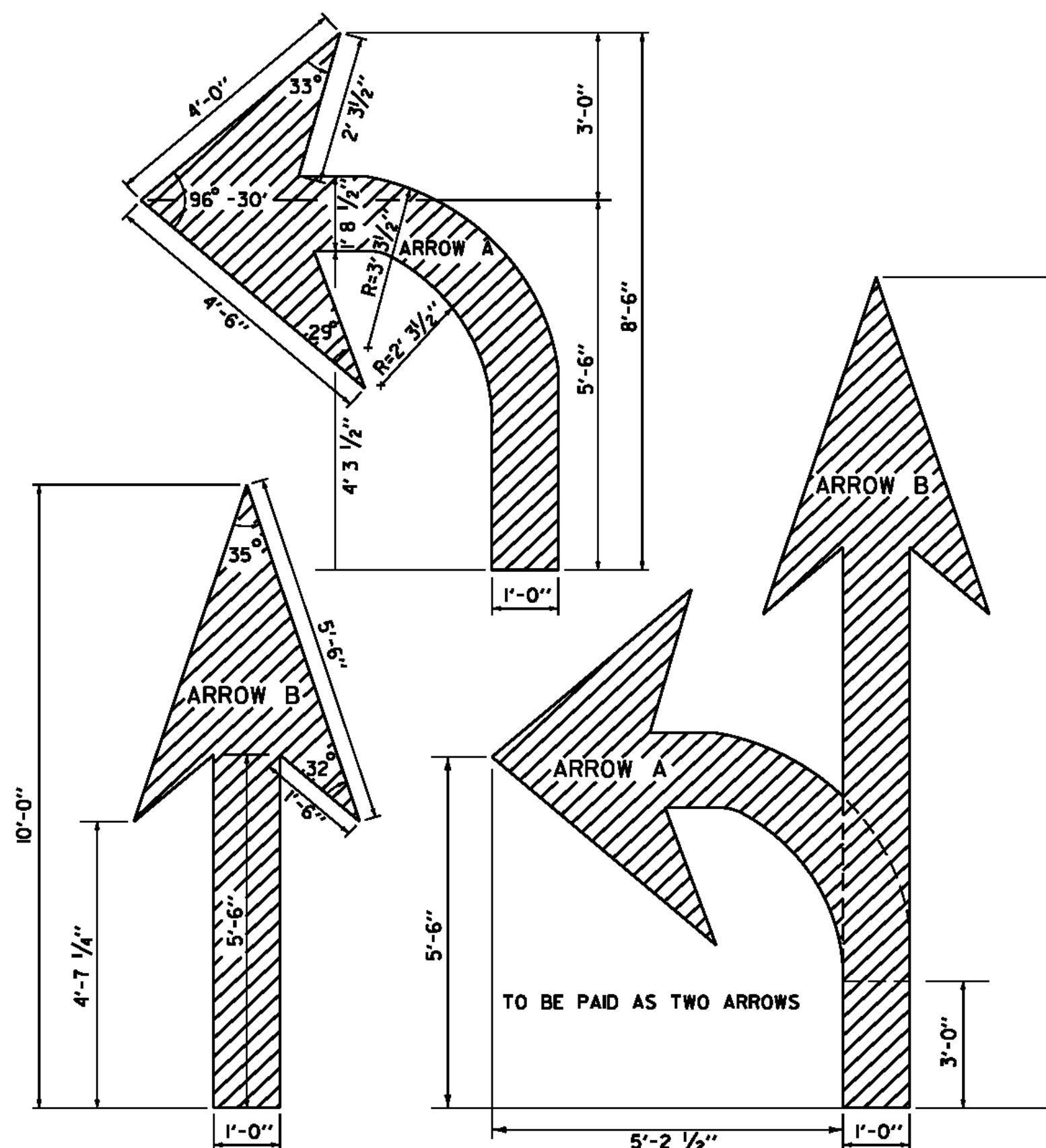
LETTER HEIGHT

DIMENSIONS ARE FOR 8' - 4" LETTER HEIGHTS. A LESSER HEIGHT OF 8' - 0" IS ACCEPTABLE AS LONG AS THE DIMENSIONS ARE PROPORTIONAL TO THE DETAILS SHOWN. SEE NOTE BELOW.

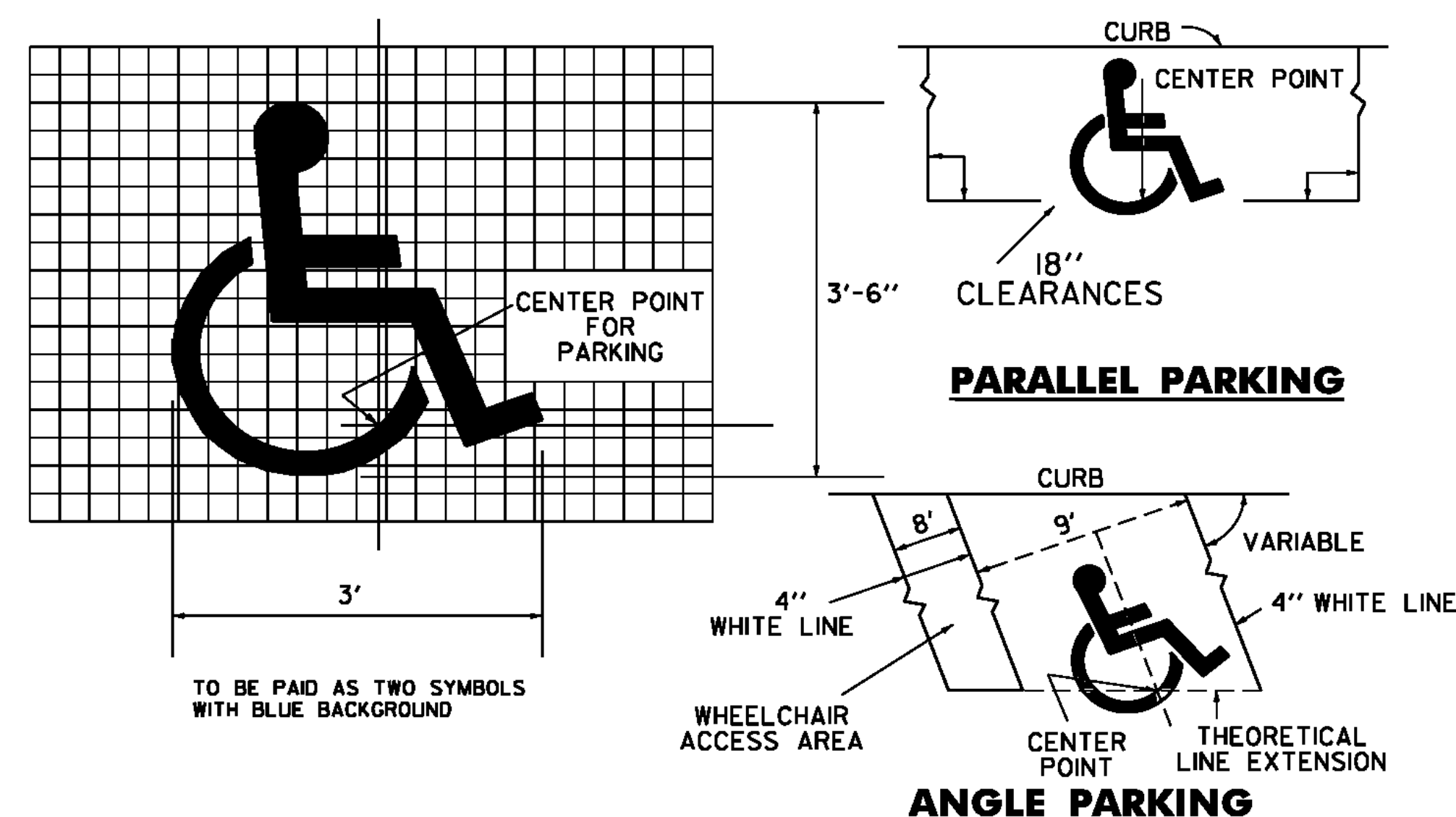


YIELD LINE DETAILS

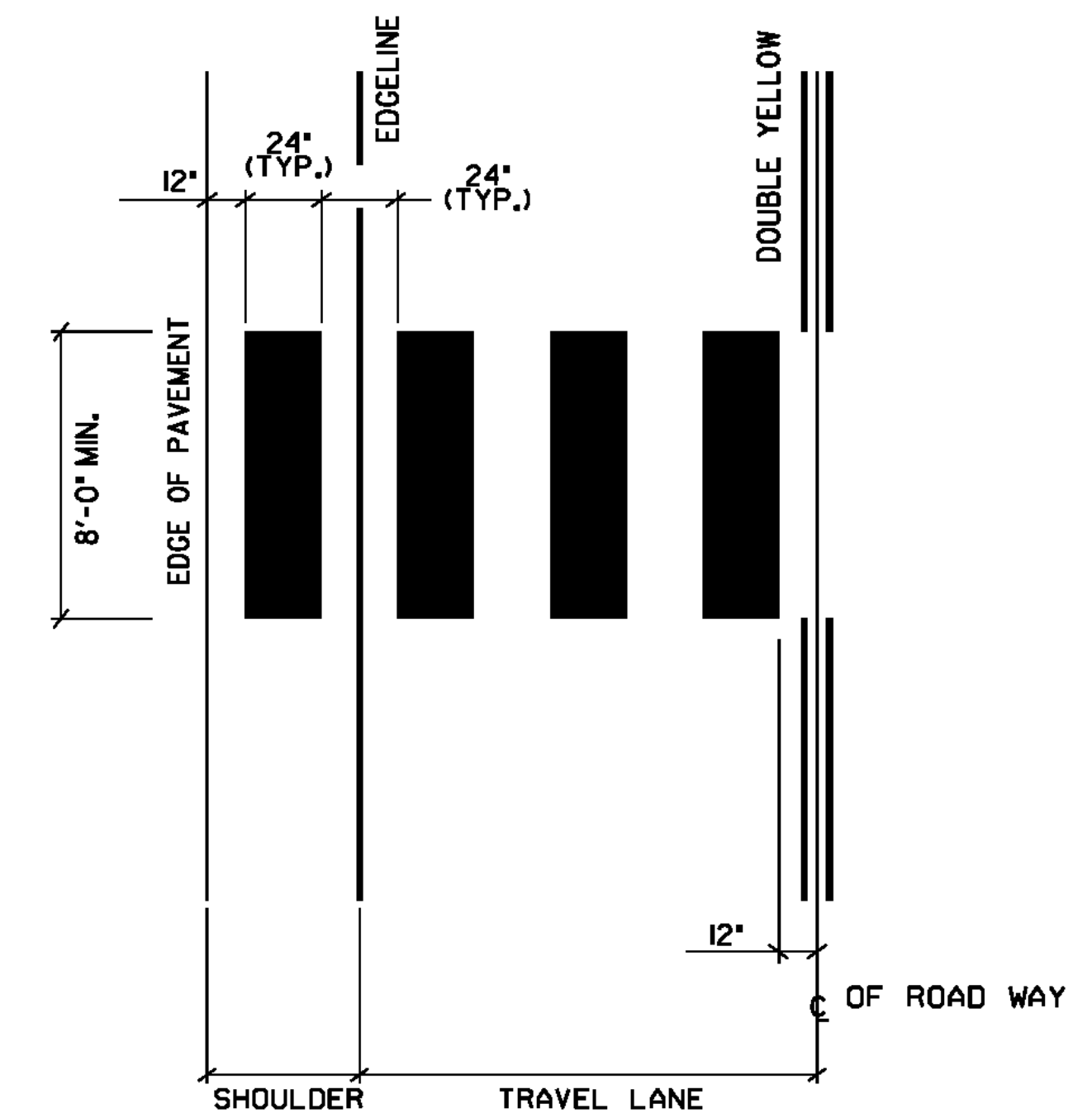
ARROWS AND WORD MARKINGS THAT CONFORM TO THE DIMENSIONS SHOWN ON THIS SHEET OR AS DETAILED IN THE BOOKLET ENTITLED "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION) PREPARED BY THE FEDERAL HIGHWAY ADMINISTRATION WILL BE ACCEPTABLE.



ARROW DETAILS



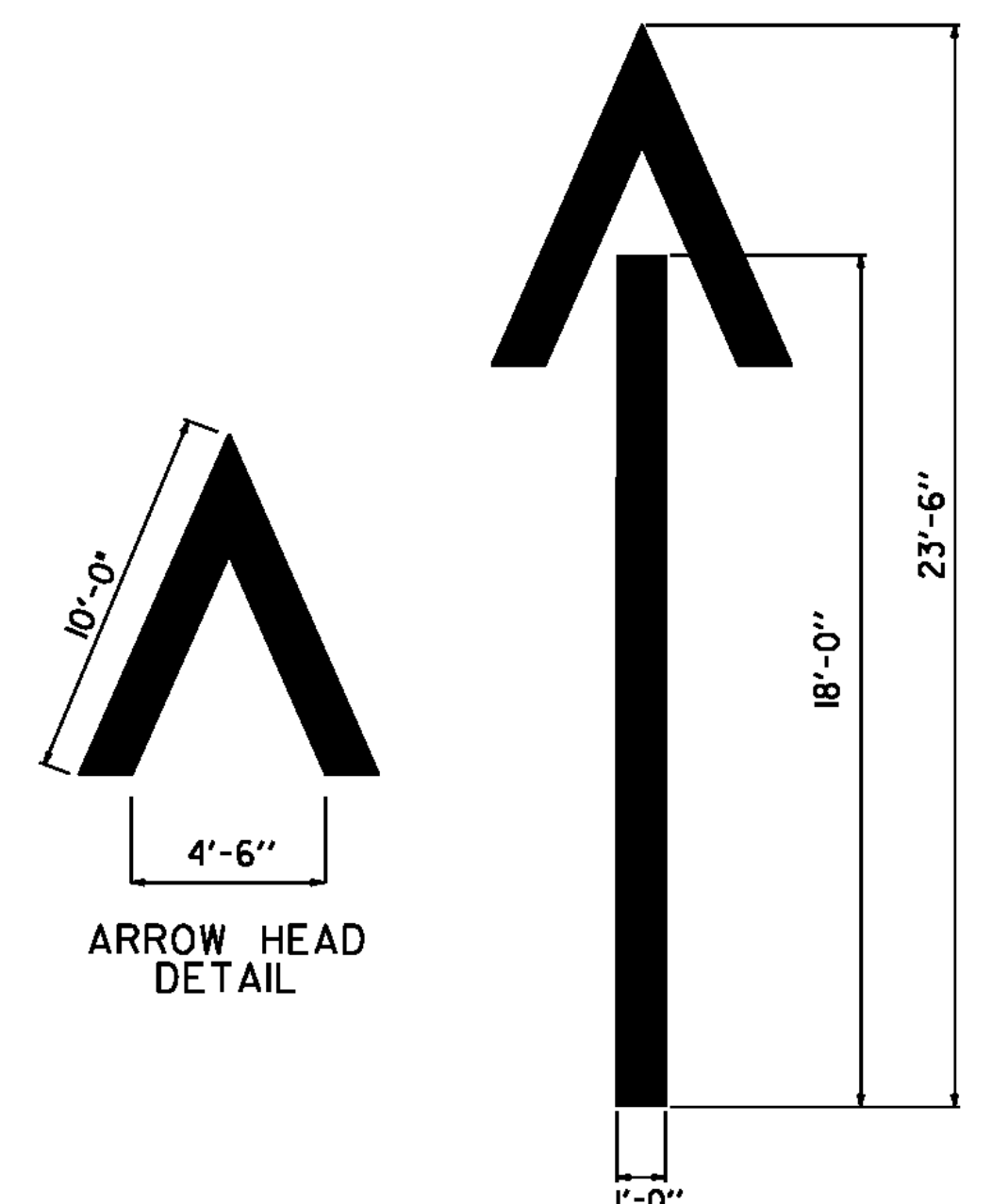
HANDICAPPED PAVEMENT MARKING DETAILS



ADJUST SPACING (1 - 2 FT) TO AVOID WHEEL PATHS

BLOCK PATTERN CROSSWALK DETAIL

NOTES:
THE BLOCK PATTERN IS THE VTRANS PREFERRED CROSSWALK MARKINGS. SEE MUTCD FOR APPROVED OPTIONS.



WRONG WAY ARROW

NOT TO SCALE

PAVEMENT MARKING DETAILS SHEET 2

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: i2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: i2b002pm2.i

PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 17 OF 20

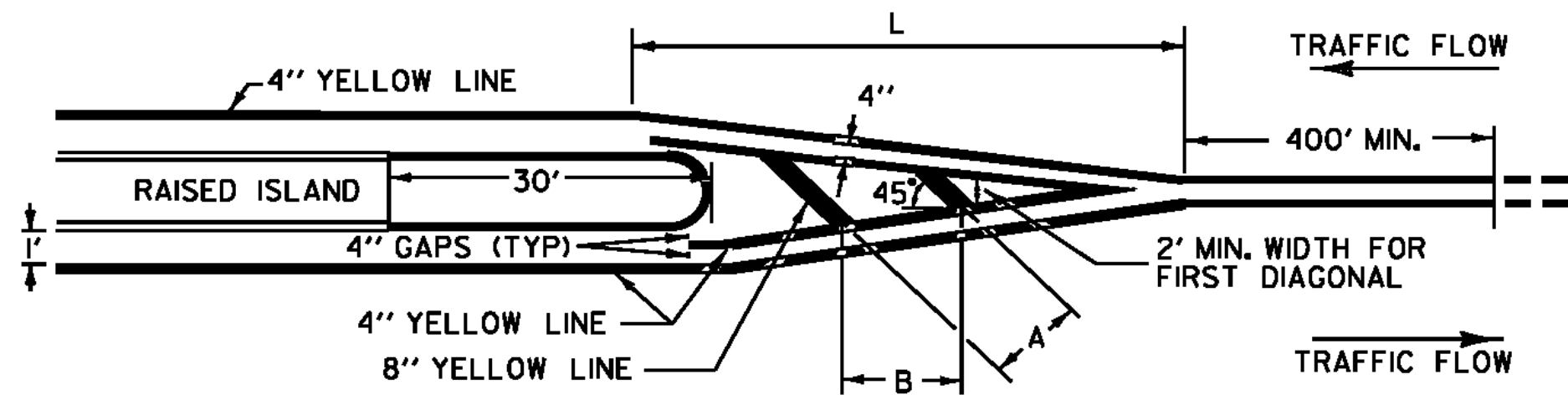
PAVEMENT MARKING DETAILS

NOTE:

A SOLID LINE IN THE DIRECTION OF TRAVEL BEGINS AT A LOCATION 400 FEET MIN. IN ADVANCE OF THE BEGIN TAPER FOR THE PAVEMENT WIDTH TRANSITION. PASSING ZONE SHOWN FOR REFERENCE ONLY, ACTUAL MARKINGS BASED ON FIELD CONDITIONS.

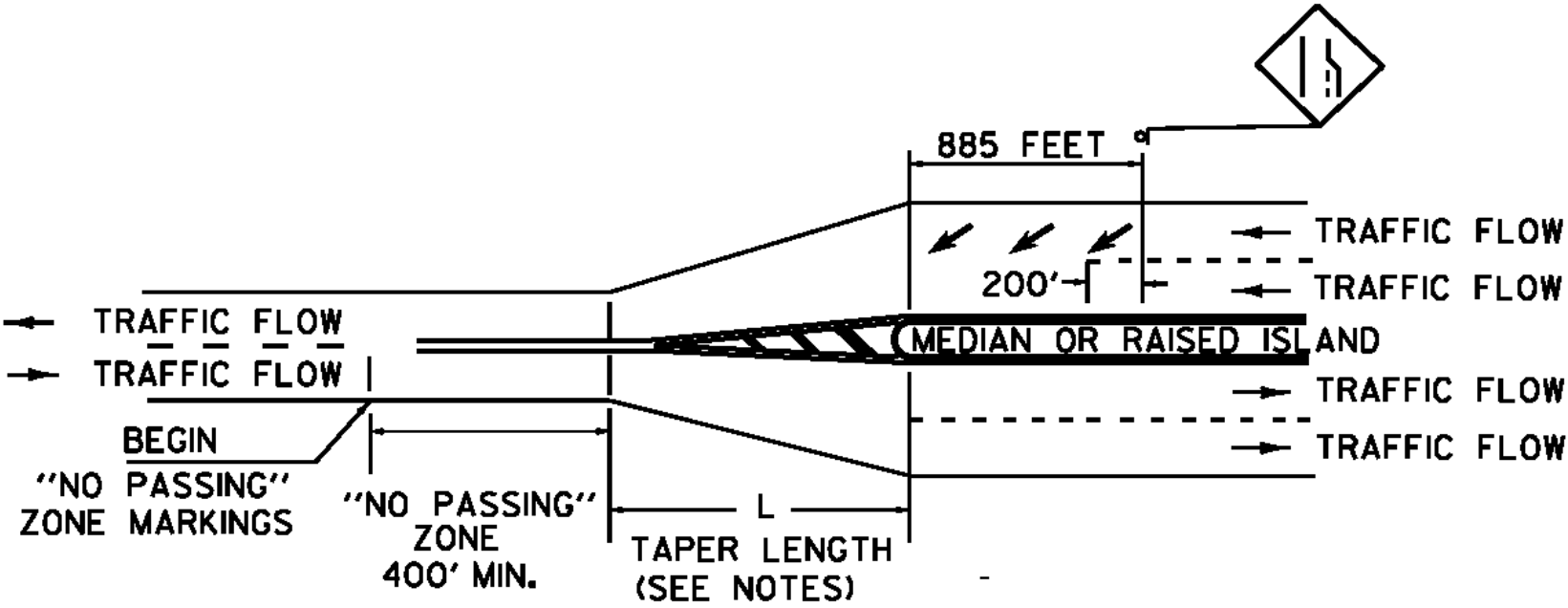
$L = \frac{WS^2}{60}$ WHEN $S = 40$ MPH OR LESS
 $L = WS$ WHEN $S = 45$ MPH OR GREATER

EDGELINES SHALL BE 1' - 0" MIN. FROM CURB

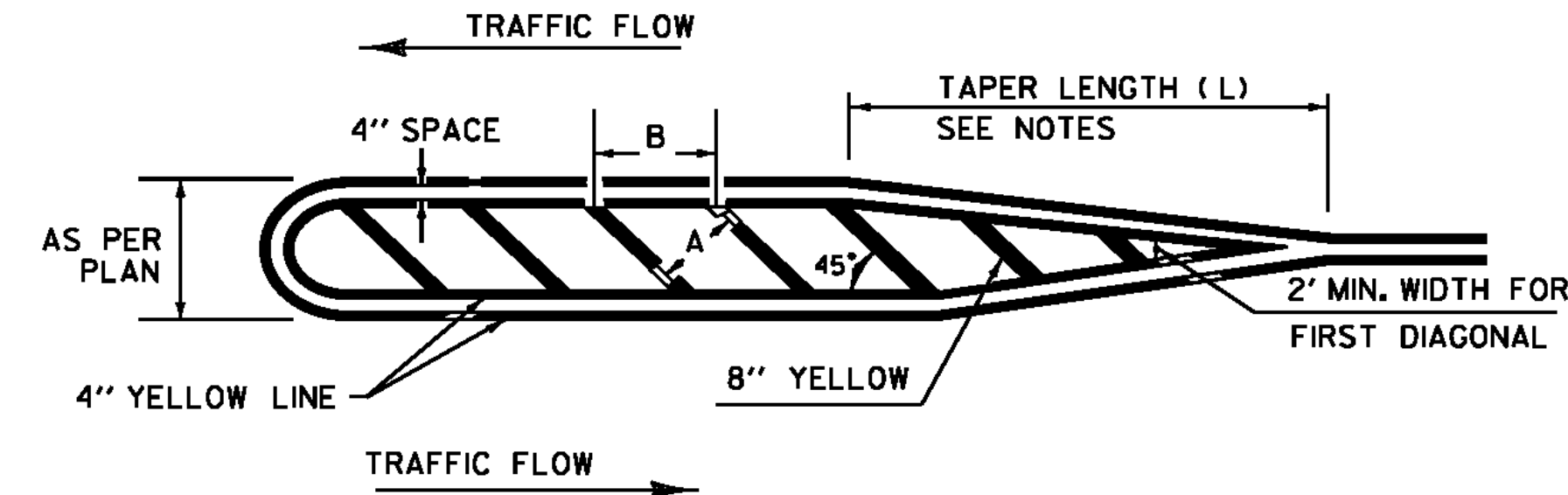


RAISED ISLAND APPROACH MARKINGS

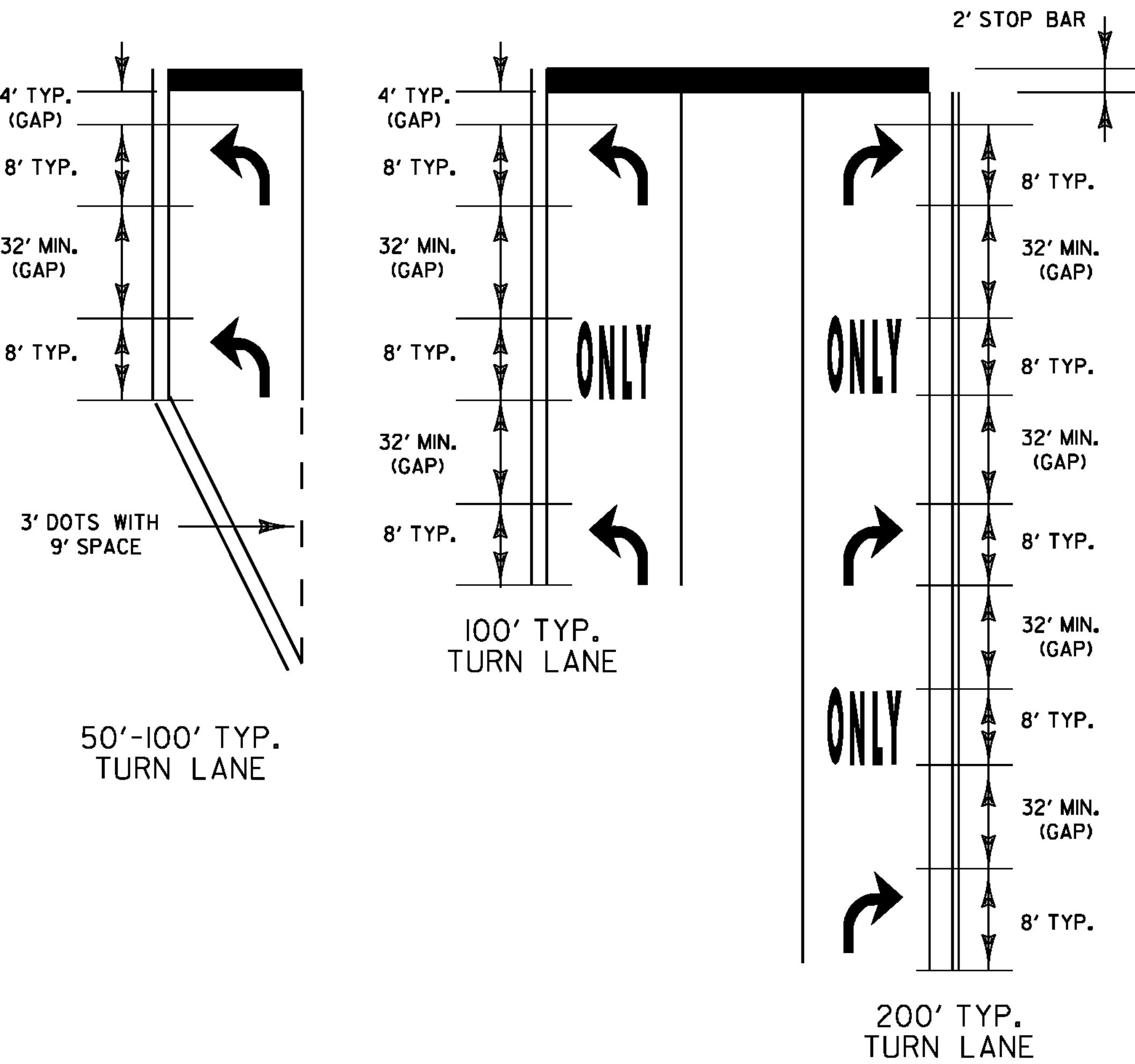
DIMENSIONS		CONDITIONS FOR USE	
A	B		
5'	7'	LOW SPEED OR HIGH SPEED/W POOR SIGHT DISTANCE, <200'	WHERE LENGTH OF DIAGONAL AREA IS 75' MAX.
10'	14'	HIGH SPEED AND GOOD SIGHT DISTANCE, ≥200'	WHERE LENGTH OF DIAGONAL AREA EXCEEDS 75'



"NO PASSING" ZONE LAYOUT IN PAVEMENT WIDTH TRANSITIONS, TWO LANE HIGHWAY TO DIVIDED HIGHWAY



MEDIAN ISLAND DETAIL



TURN ARROWS SHALL BE PLACED AT THE BEGIN AND END OF THE LEFT OR RIGHT TURN LANE.

IF LANE LENGTH IS LESS THAN 100', TURN ARROWS SHOULD BE PLACED AT THE BEGINNING AND END OF THE LEFT OR RIGHT TURN LANE.

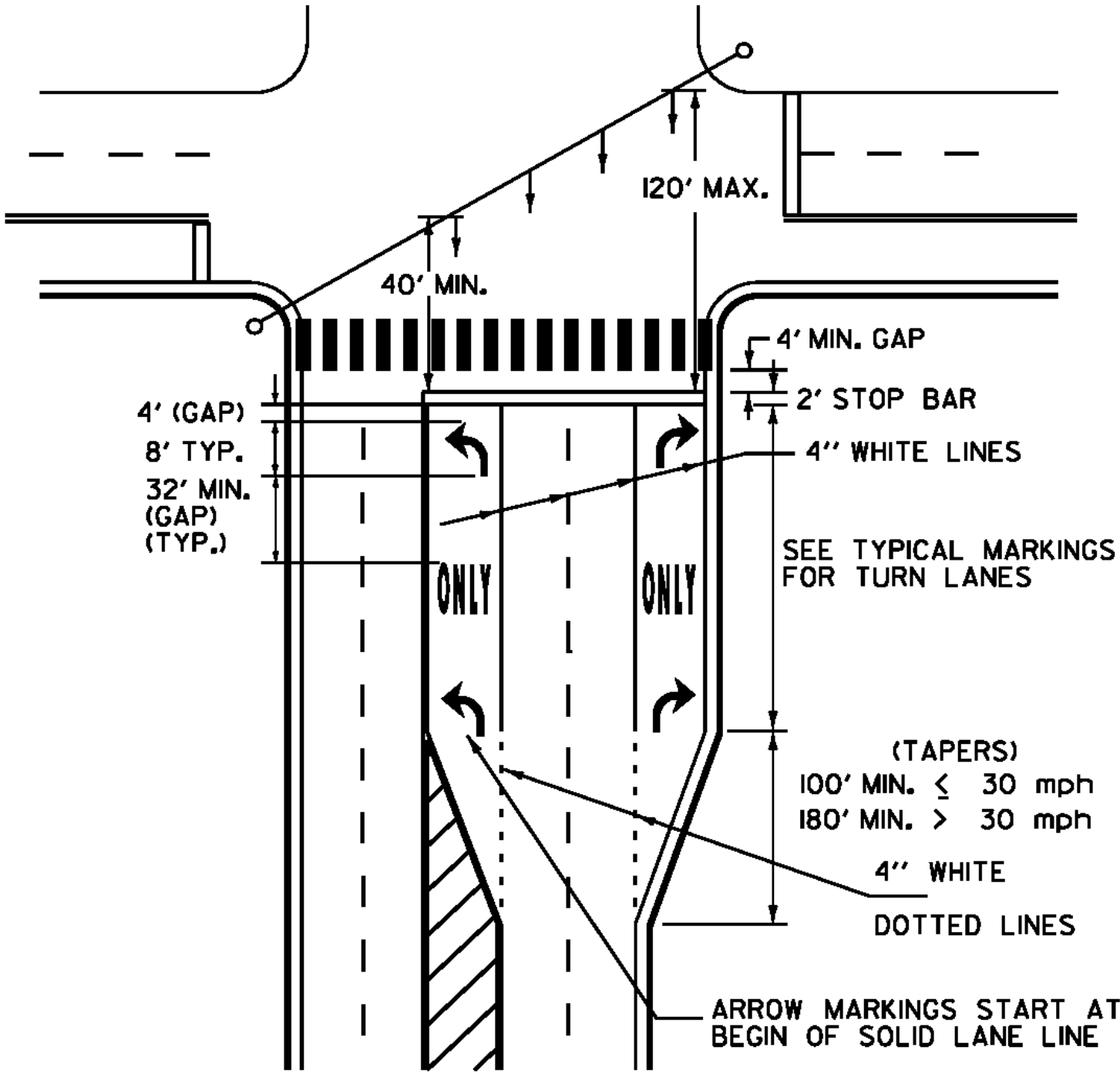
THE "ONLY" WORD MARKINGS SHALL BE USED TO SUPPLEMENT LANE-USE ARROW MARKINGS FOR TURN LANES 100' OR LONGER.

MORE ARROWS AND ONLY'S ARE OPTIONAL WHEN SPACE PERMITS. ARROW MARKINGS START AT THE BEGINNING OF THE SOLID LANE LINE.

STOP BARS ARE INSTALLED ONLY WHERE A STOP SIGN OR TRAFFIC SIGNAL ARE LOCATED. STOP LETTERS ARE OPTIONAL. IF INSTALLED THEY SHALL BE 4' FROM THE STOP BAR.

THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS.

EXCLUSIVE TURN LANES (LEFT OR RIGHT), LANE LINES SHALL BE SOLID AND EXTEND BACK FROM THE STOP LINE TO THE POINT OF FULL LANE WIDTH OF THE TURN LANE. 3' DOTS WITH A 9' SPACE SHOULD BE EXTENDED THE FULL LENGTH OF THE LANE TAPER.



TYPICAL MARKINGS FOR SIGNALIZED INTERSECTION

TYPICAL MARKINGS FOR TURN LANES

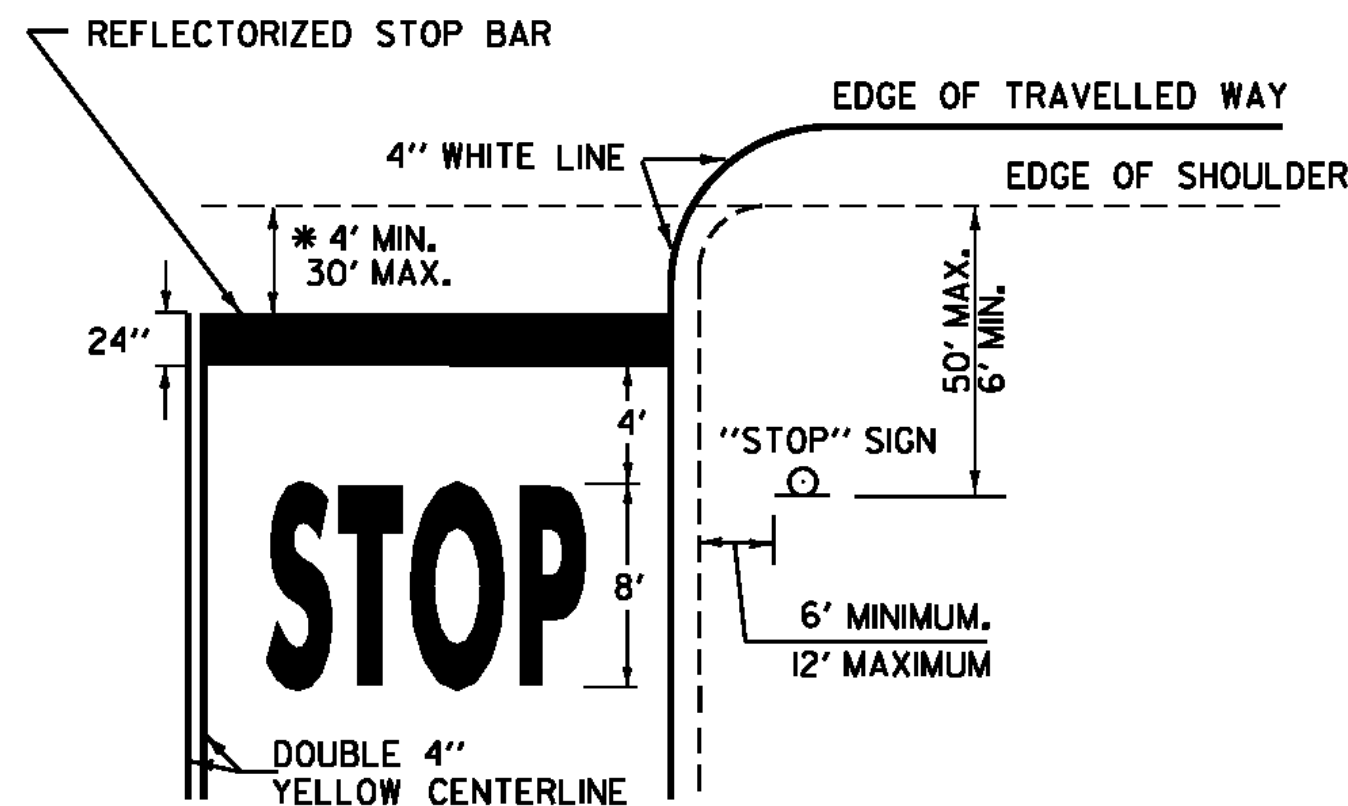
NOT TO SCALE

PAVEMENT MARKING DETAILS

PAVEMENT MARKING
DETAILS
SHEET 3

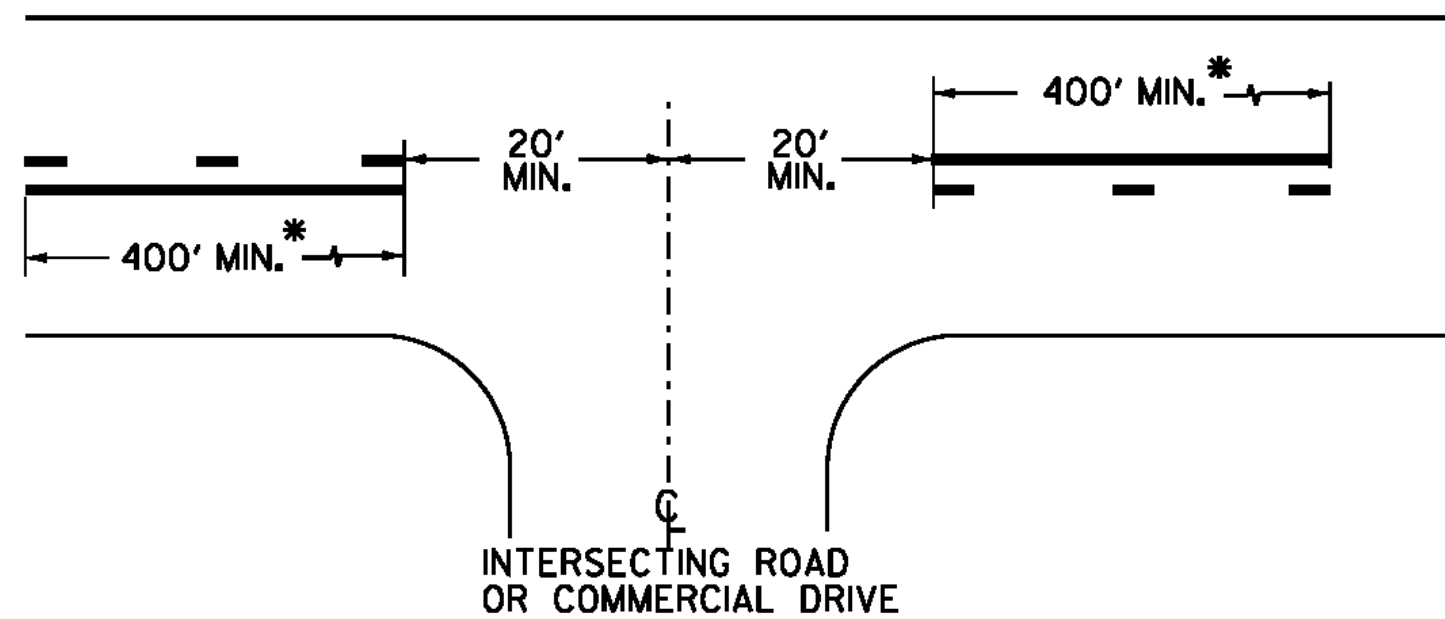
PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)
DESIGN FILE NAME: I2b002.dgn
PROJECT MANAGER: A GAMBLE
IPARM FILE NAME: I2b002pm3.I

PLOT DATE: 12-MAR-2012
DRAWN BY: KAS
SHEET: 18 OF 20



* THE "DESIRED STOPPING POINT" IS THE LOCATION BASED ON SITE CONDITIONS THAT BEST ALLOWS THE STOPPED VEHICLE TO VIEW THE APPROACHING TRAFFIC.

STOP BAR LAYOUT

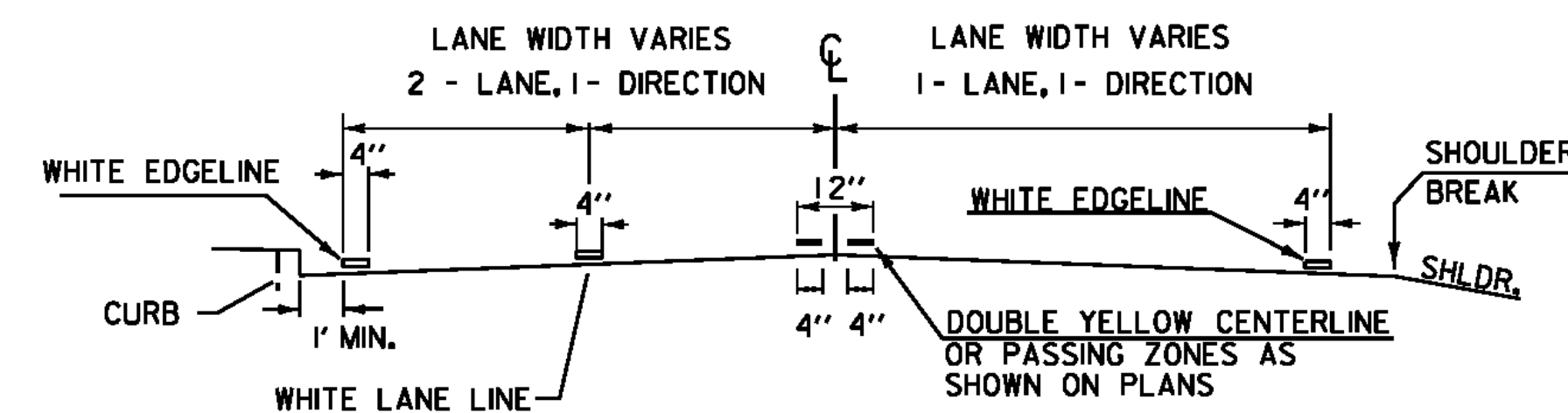


* THE SOLID LINE SHALL BE PAIRED WITH EITHER A SOLID OR DASHED LINE DEPENDING ON SIGHT DISTANCE AVAILABILITY IN THE OPPOSING DIRECTION. ADJUSTMENTS TO THE 40 FOOT CENTERLINE OPENING MAY BE MADE TO ACCOMMODATE SKEWED INTERSECTIONS.

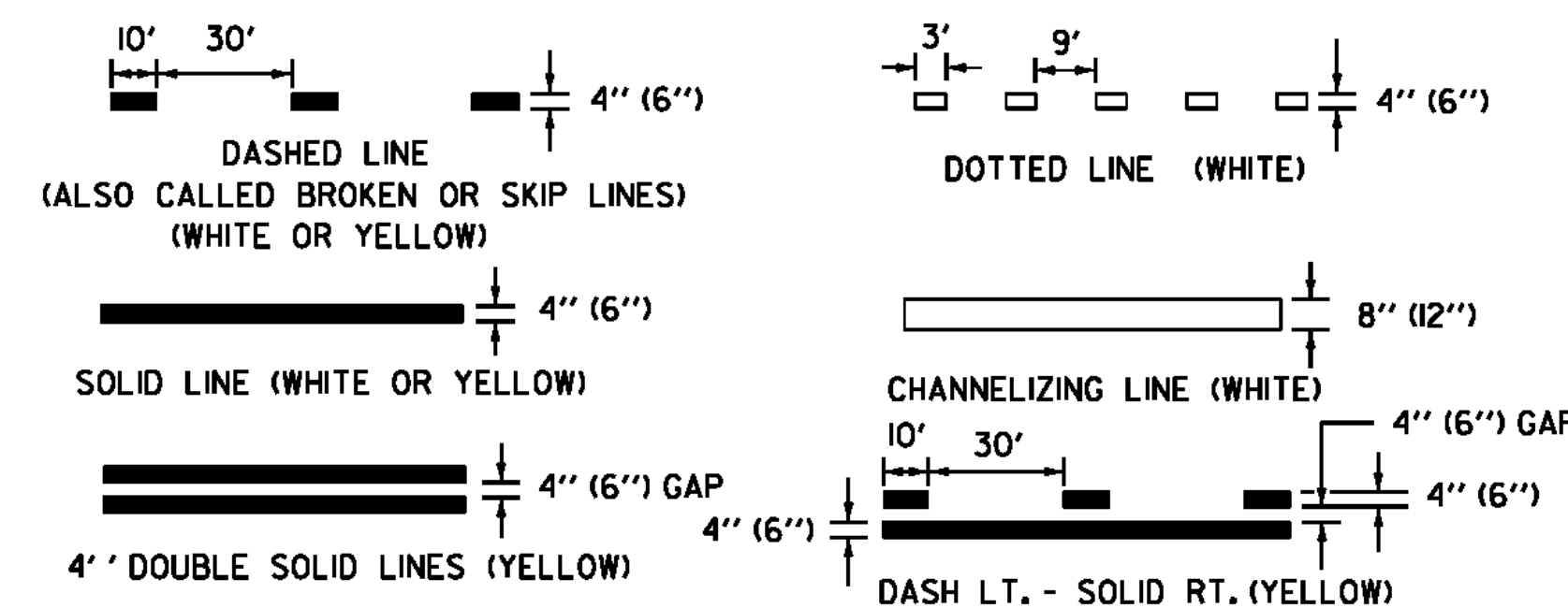
CENTERLINE BREAKS:

- AT ALL STATE HIGHWAYS AND TOWN HIGHWAYS THAT HAVE STOP AND LEGAL LOAD LIMIT SIGNS INSTALLED.
- COMMERCIAL DRIVES:
 - WHERE A SEPARATE TURN LANE EXISTS ON THE MAIN LINE (LT. OR RT.)
 - SIGNIFICANT TRAFFIC VOLUMES EXISTS.

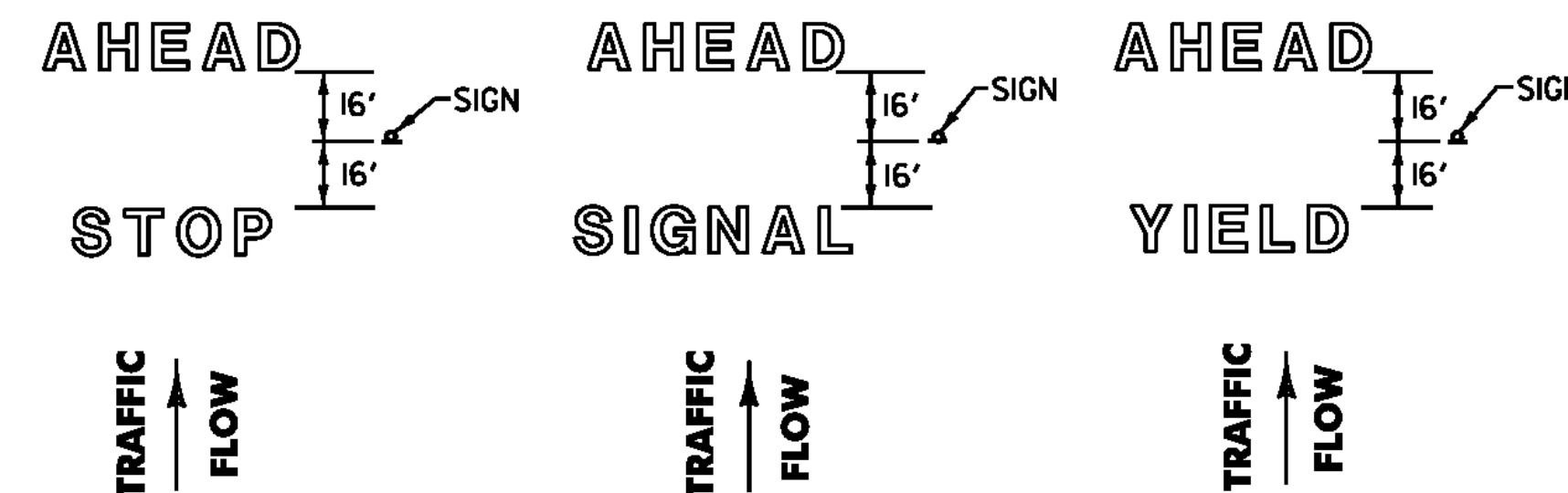
CENTERLINE LAYOUT



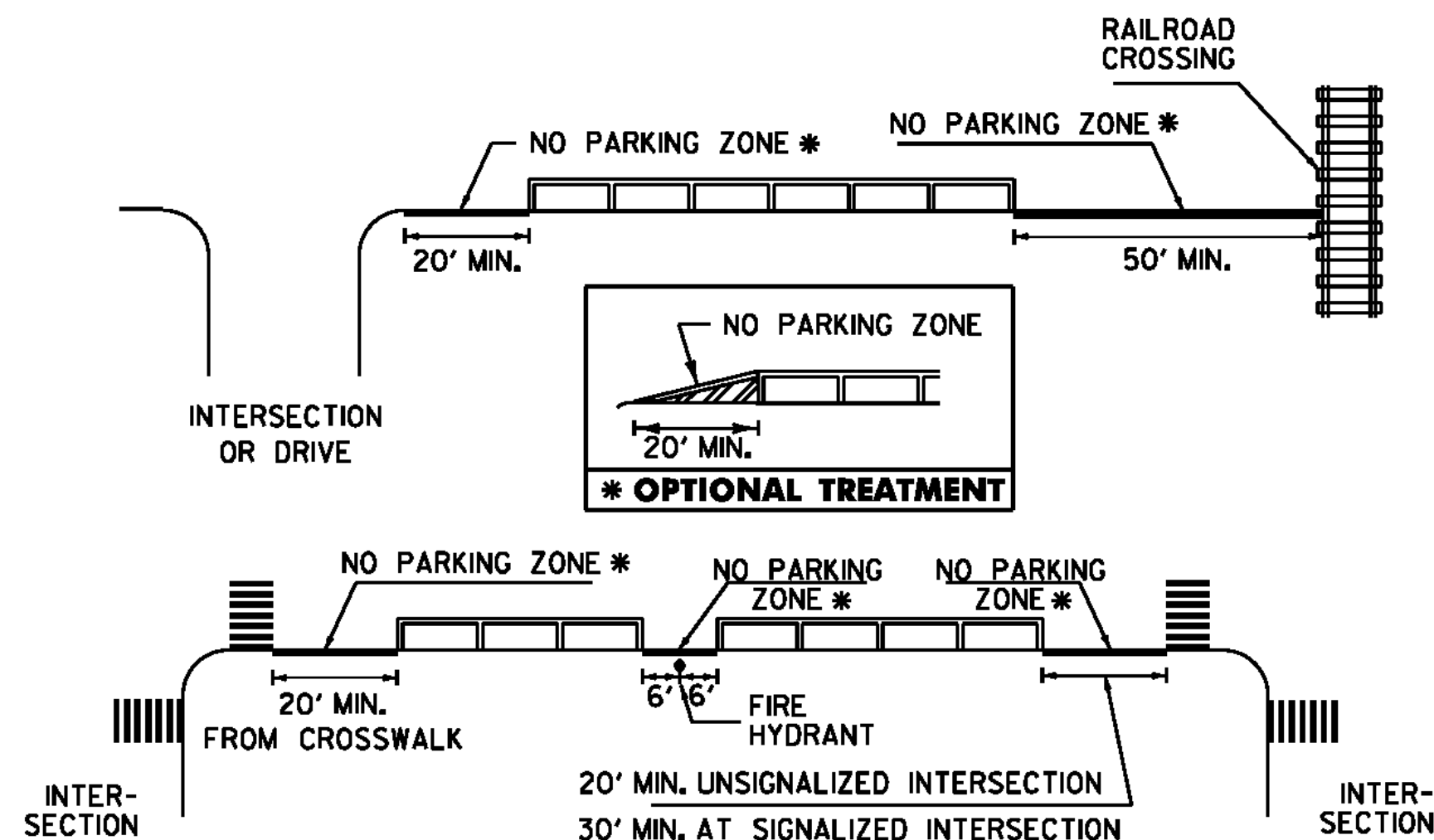
PAVEMENT MARKING PLACEMENT DETAIL



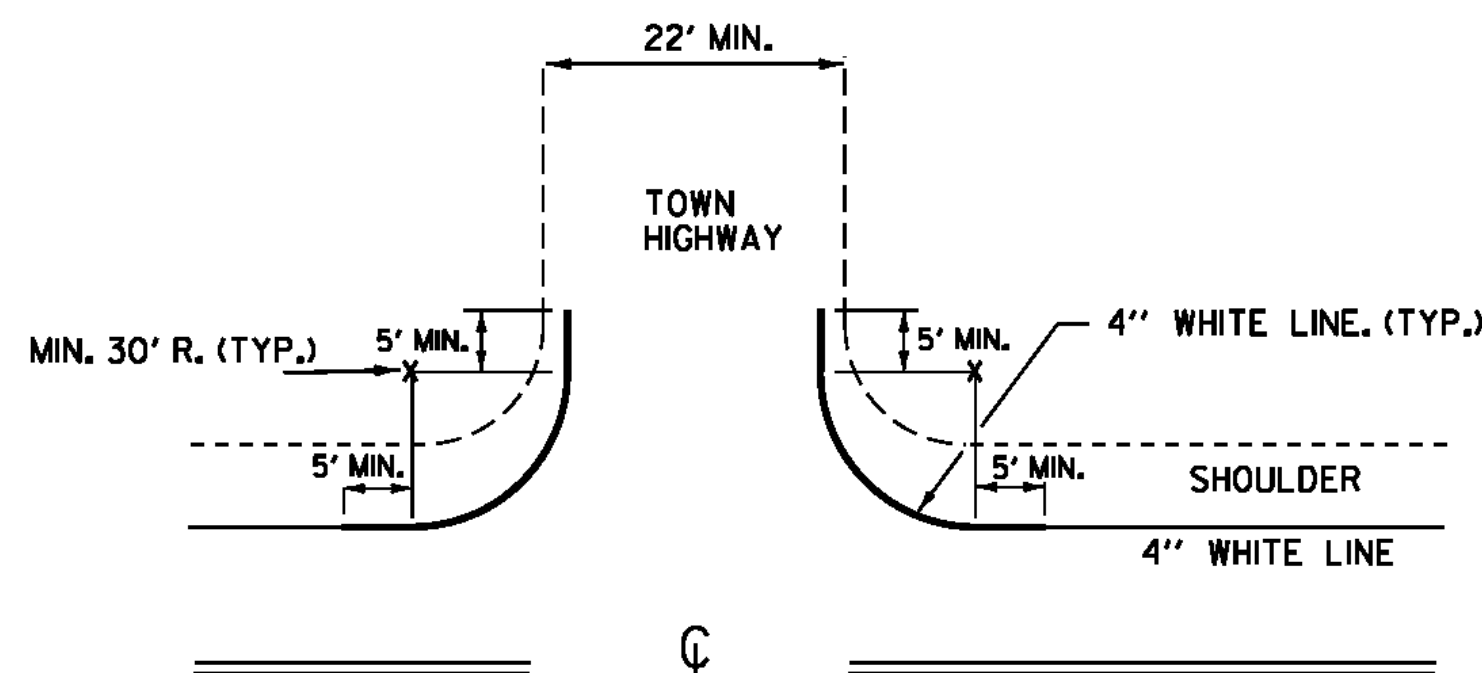
PAVEMENT MARKING LINE DETAILS
(X) = INTERSTATE OR LIMITED ACCESS



LETTER IN WORD MARKING SPACING DETAIL
NOTE: SINGLE WORDS CENTERED ON SIGN ie: SCHOOL OR YIELD



NO PARKING LAYOUT DETAILS

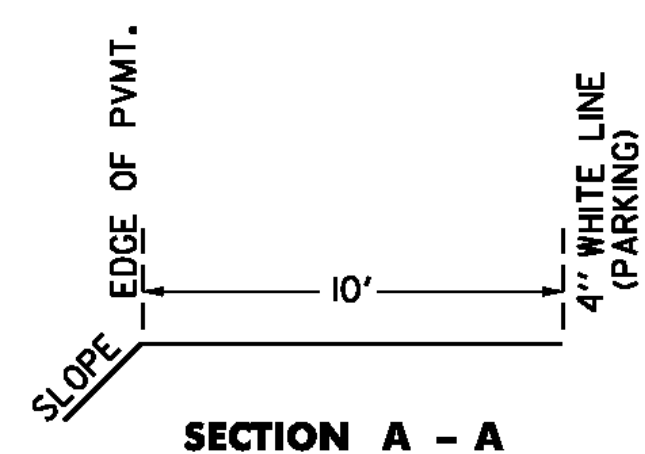


EDGELINES SHALL BE APPLIED TO ALL STATE HIGHWAYS AND SHOULD BE MAINTAINED AT A CONSTANT DISTANCE FROM THE CENTERLINE UNLESS PAVEMENT WIDTH INCREASES TO ALLOW WIDER LANES.

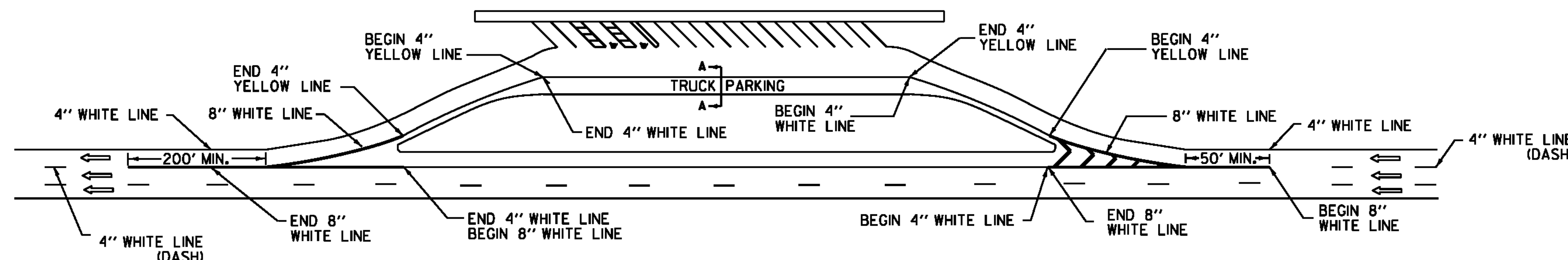
APPLY EDGELINE AS DETAILED ON ALL PAVED CLASS 1 & CLASS 2 TOWN HIGHWAYS AND ANY PAVED CLASS 3 TOWN HIGHWAY 22 FEET OR MORE IN WIDTH.

IF MIN. 30 FOOT RADIUS CANNOT BE OBTAINED, OR THE TOWN HIGHWAY IS NOT PAVED, BREAK THE EDGELINE USING AN 80 FOOT GAP AT INTERSECTION.

EDGELINE LAYOUTS



TRUCK PARKING DETAIL



REST AREA PARKING DETAILS

NOT TO SCALE

PAVEMENT MARKING DETAILS

PAVEMENT MARKING DETAILS SHEET 4

PROJECT NAME: STATEWIDE
PROJECT NO.: NHG MARK (206)

DESIGN FILE NAME: i2b002.dgn

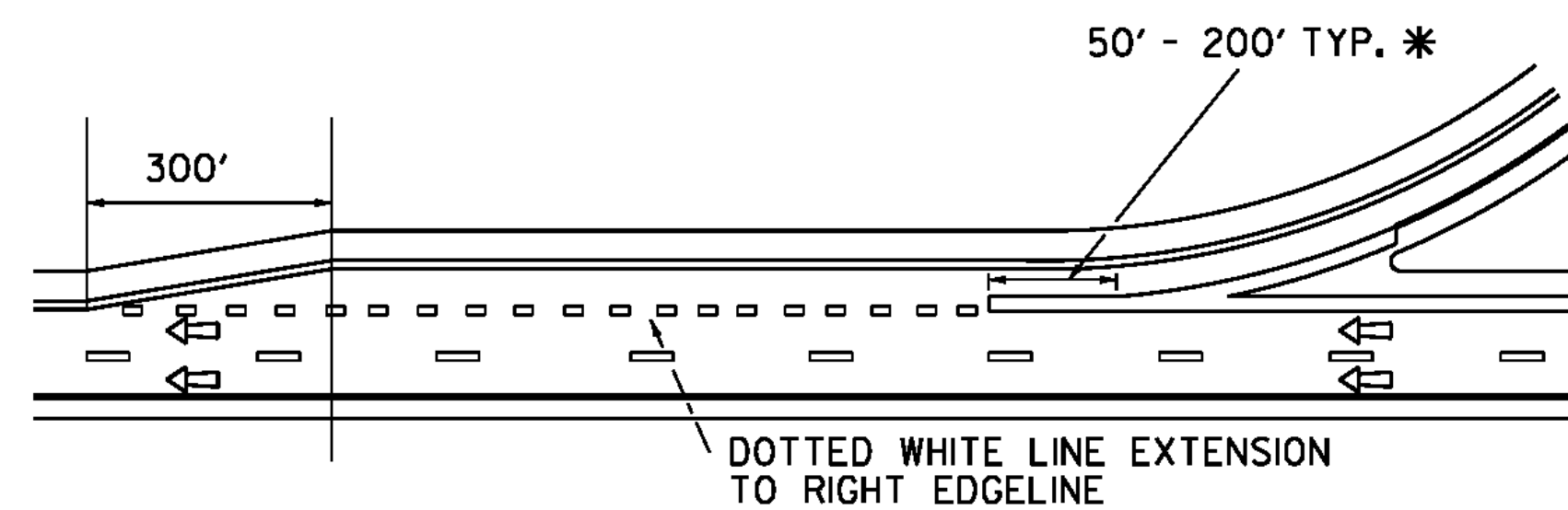
PROJECT MANAGER: A GAMBLE

IPARM FILE NAME: i2b002pm4.I

PLOT DATE: 12-MAR-2012

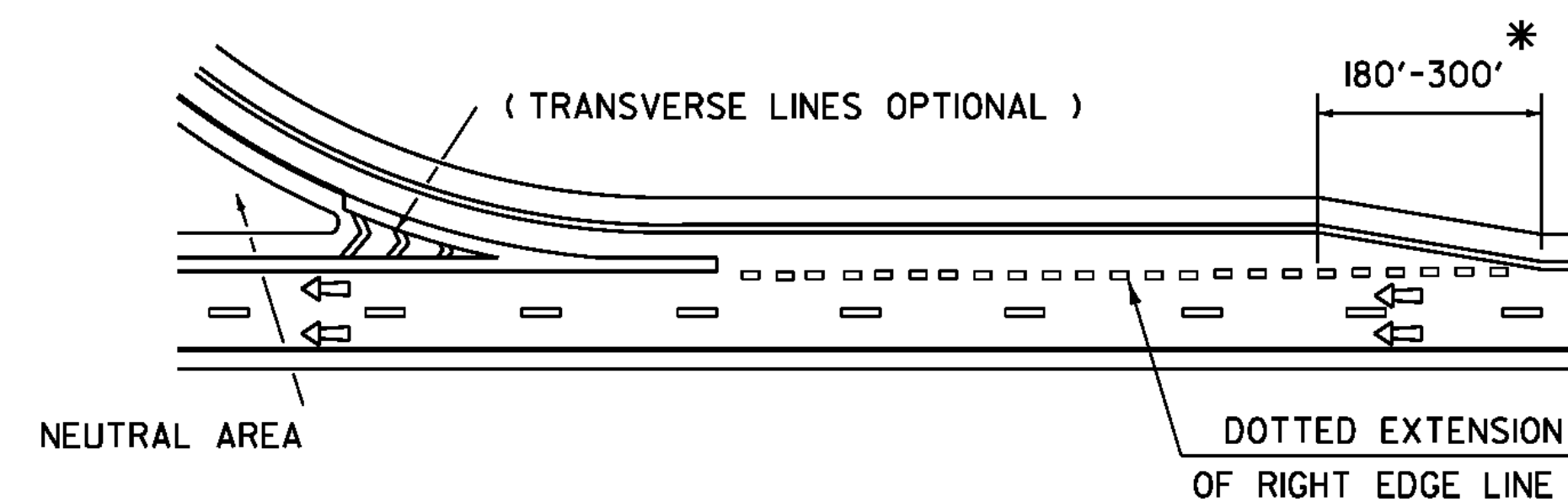
DRAWN BY: KAS

SHEET: 19 OF 20



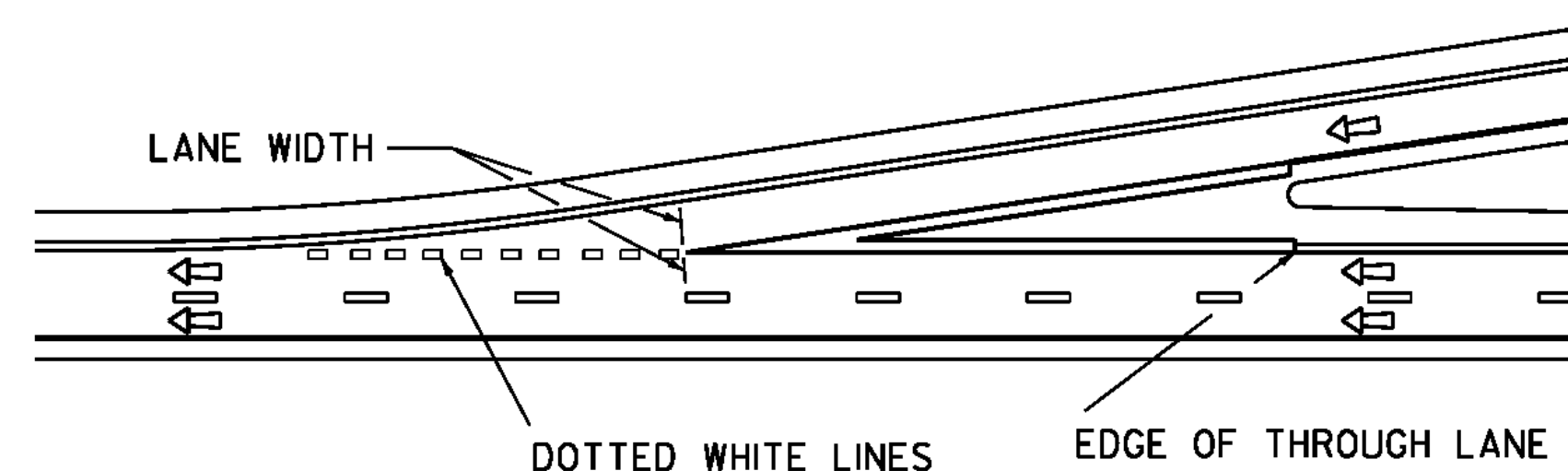
PARALLEL ACCELERATION LANE

* USE LONGER LENGTH TO EMPHASIZE SITUATIONS WHERE THE CROSSING REQUIRES UNUSUAL CARE SUCH AS HIGH VOLUME MERGE AREAS.

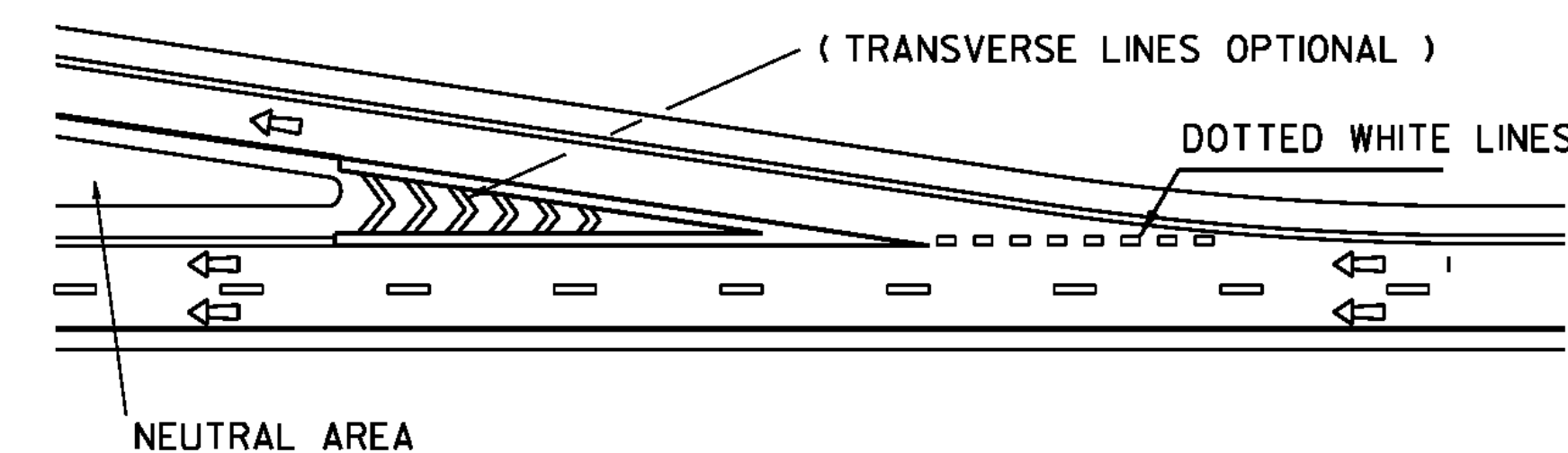


PARALLEL DECELERATION LANE

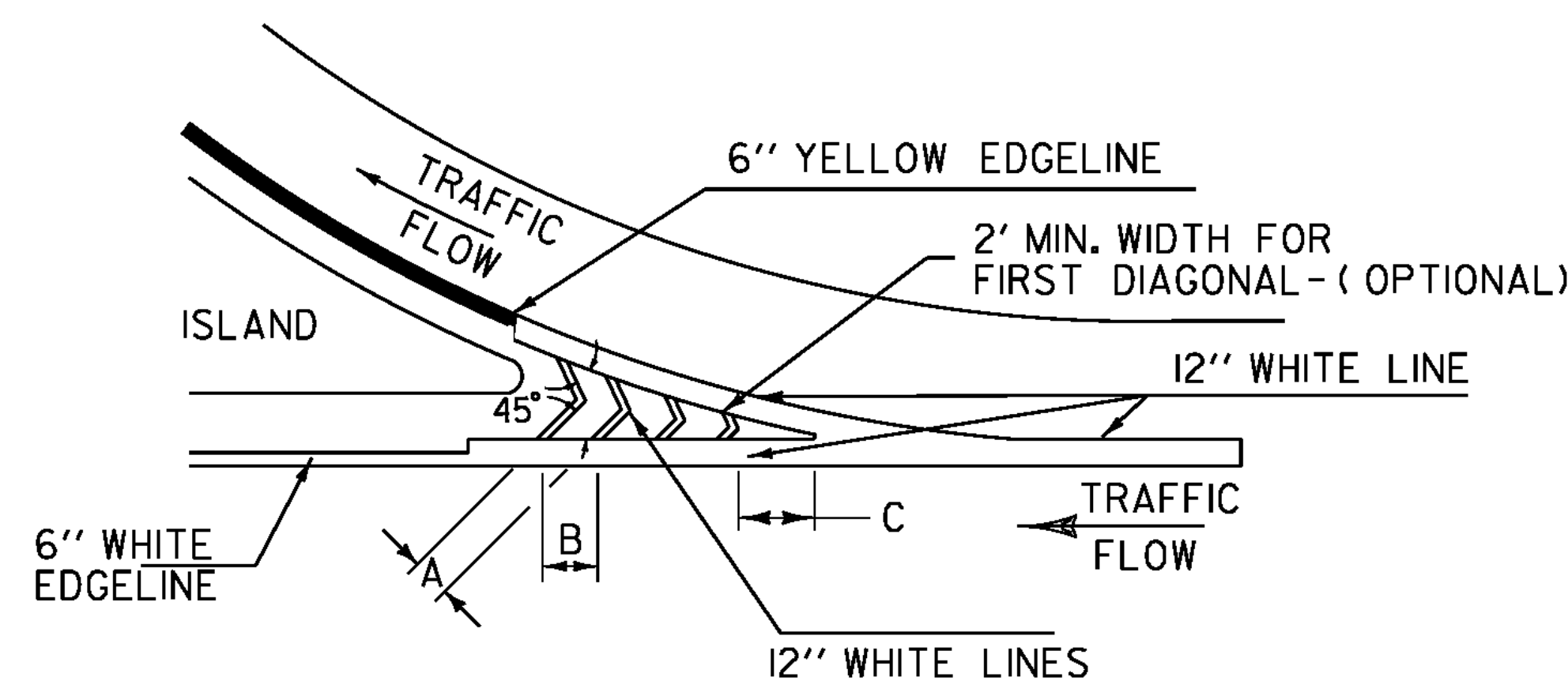
* SHORTER TAPERS GIVE A BETTER TARGET VALUE, HOWEVER ALIGNMENT MAY DICTATE A LONGER TAPER. ENGINEER SHALL ESTIMATE LENGTH.



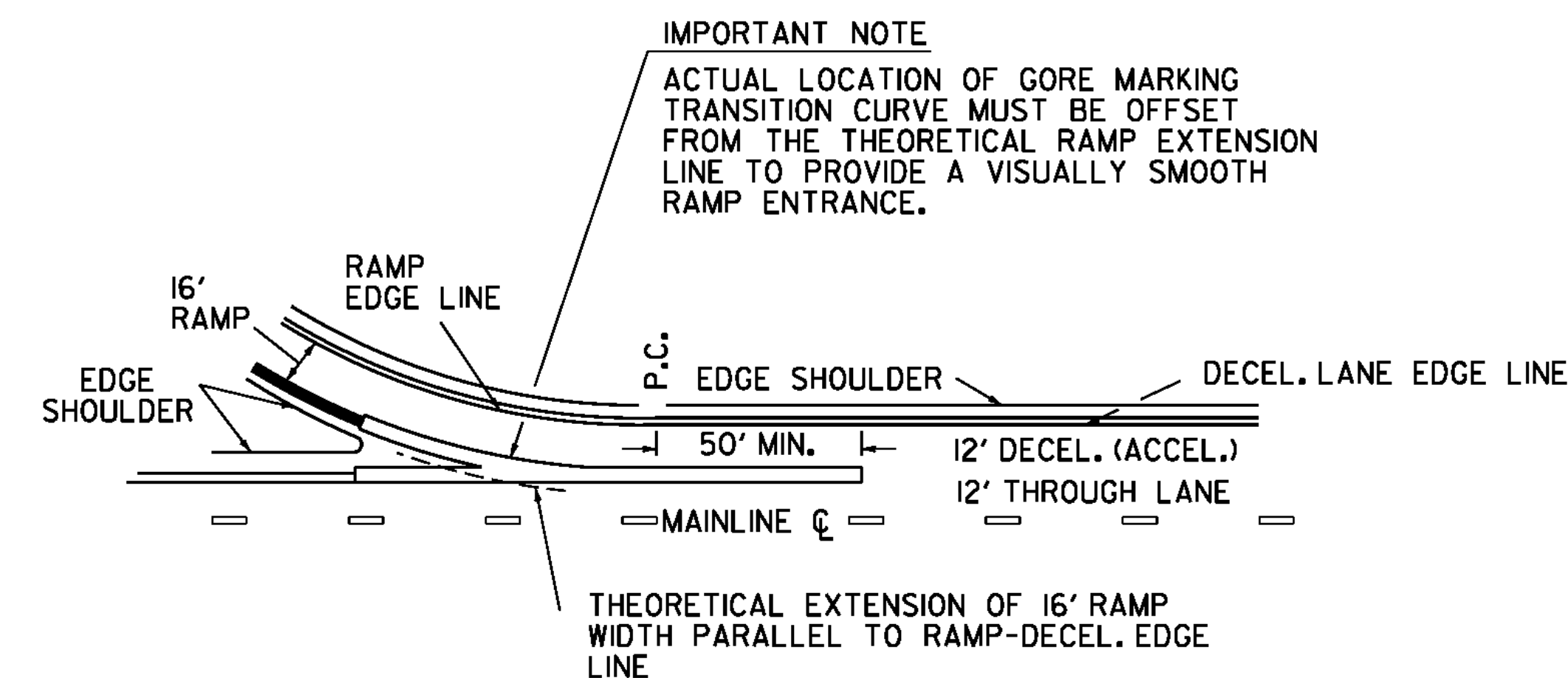
TAPERED ACCELERATION LANE



TAPERED DECELERATION LANE



GORE MARKING DETAIL - EXIT TRANSVERSE LINES



DETAIL - GORE MARKING TRANSITION CURVE

LEGEND

- WHITE LINES
- YELLOW LINES
- CHANNELIZATION WHITE LINES
- - - WHITE DOTTED LINES (3' SOLID - 9' GAP)
- ↔ DIRECTION OF TRAFFIC FLOW

DIMENSIONS			CONDITIONS FOR USE	
A	B	C		
5'	7'	2'	LOW SPEED OR HIGH SPEED/W POOR SIGHT DISTANCE, <200'	WHERE LENGTH OF DIAGONAL AREA IS 75' MAX.
10'	14'	4'	HIGH SPEED AND GOOD SIGHT DISTANCE, ≥200'	WHERE LENGTH OF DIAGONAL AREA EXCEEDS 75'

PAVEMENT MARKING DETAILS

NOT TO SCALE

PAVEMENT MARKING DETAILS SHEET 5

PROJECT NAME: **STATEWIDE**
PROJECT NO.: **NHG MARK (206)**

DESIGN FILE NAME: I2b002.dgn

PROJECT MANAGER: A GAMBLE

IPARM FILE NAME: I2b002pm5.I

PLOT DATE: 12-MAR-2012

DRAWN BY: KAS

SHEET: 20 OF 20