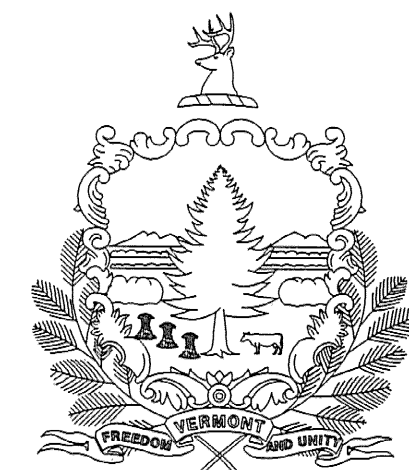
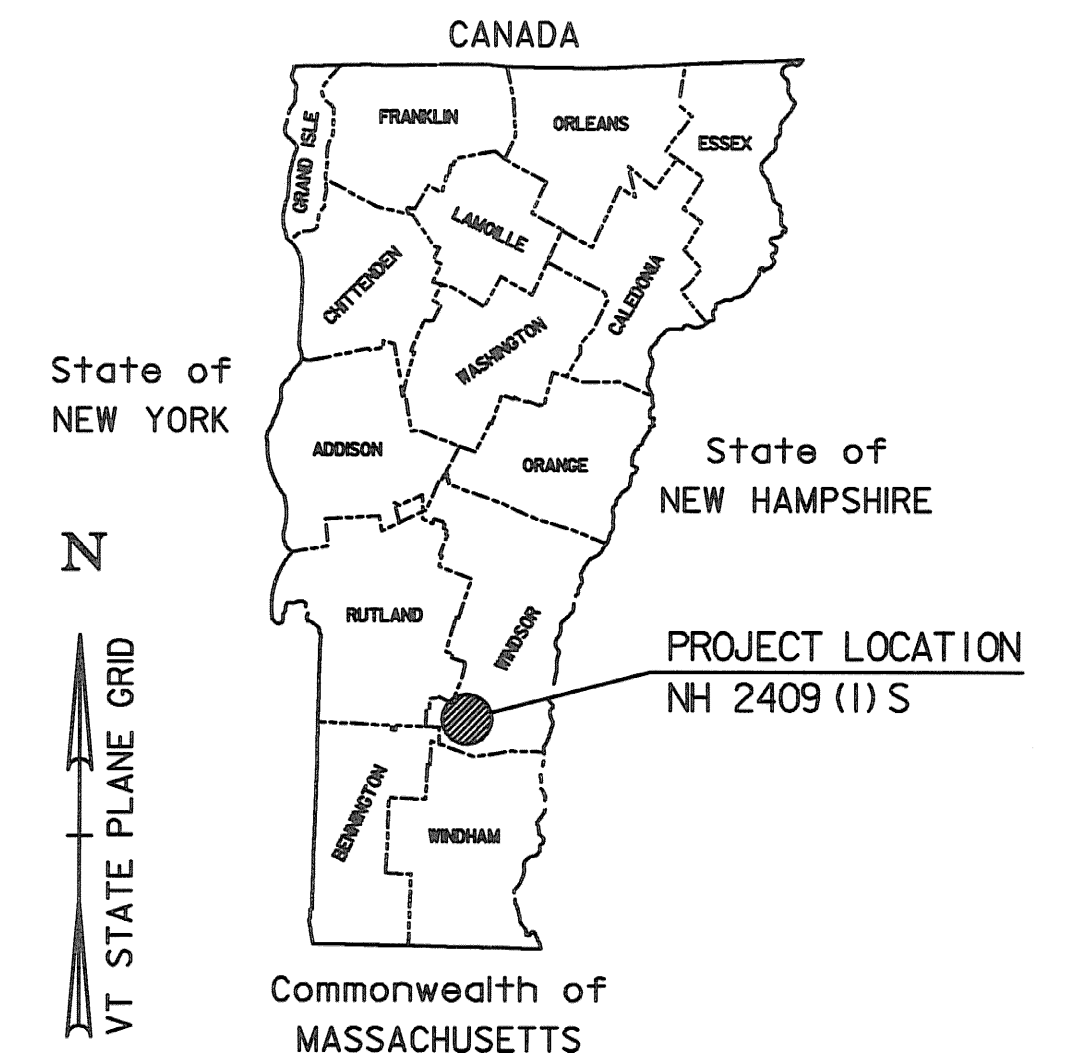


STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF LUDLOW COUNTY OF WINDSOR VT. ROUTE 103



RECORD PLANS	
CONTRACTOR:	PIKE INDUSTRIES, INC. - BERLIN, VT
RESIDENT ENGINEER:	CHAD GREENWOOD
CONSTRUCTION BEGAN:	APRIL 16, 2007
CONSTRUCTION COMPLETE:	OCTOBER 26, 2007
RECORD PLANS BY:	CHAD GREENWOOD & C. PIERCE
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY <u>Chad Greenwood</u>	RESIDENT ENGINEER
DATE <u>4/30/10</u>	
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.	

BEGINNING IN LUDLOW ON VT ROUTE 103 AT STATION 68+08.00 (MM 1.289)
AT THE SOUTHERN VILLAGE LIMIT AND EXTENDING NORTHERLY ALONG ROUTE 103
A DISTANCE OF 1.573 MILES (8,304 FEET) TO STATION 151+12.00 (MM 2.862)
AT THE START OF THE STATE HIGHWAY IN LUDLOW.

PROJECT DATA

FROM IQ
STA 68+08 (MM 1.289) STA 151+12 (MM 2.862)
LENGTH OF ROADWAY = 1.573 MILES (8,304 FEET)
LENGTH OF PROJECT = 1.573 MILES (8,304 FEET)

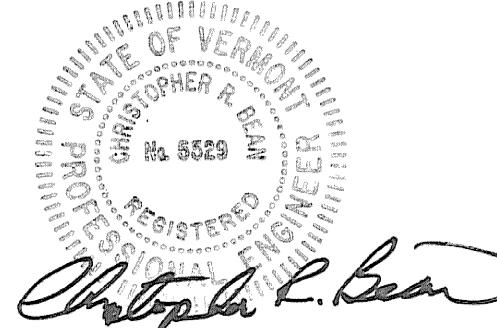
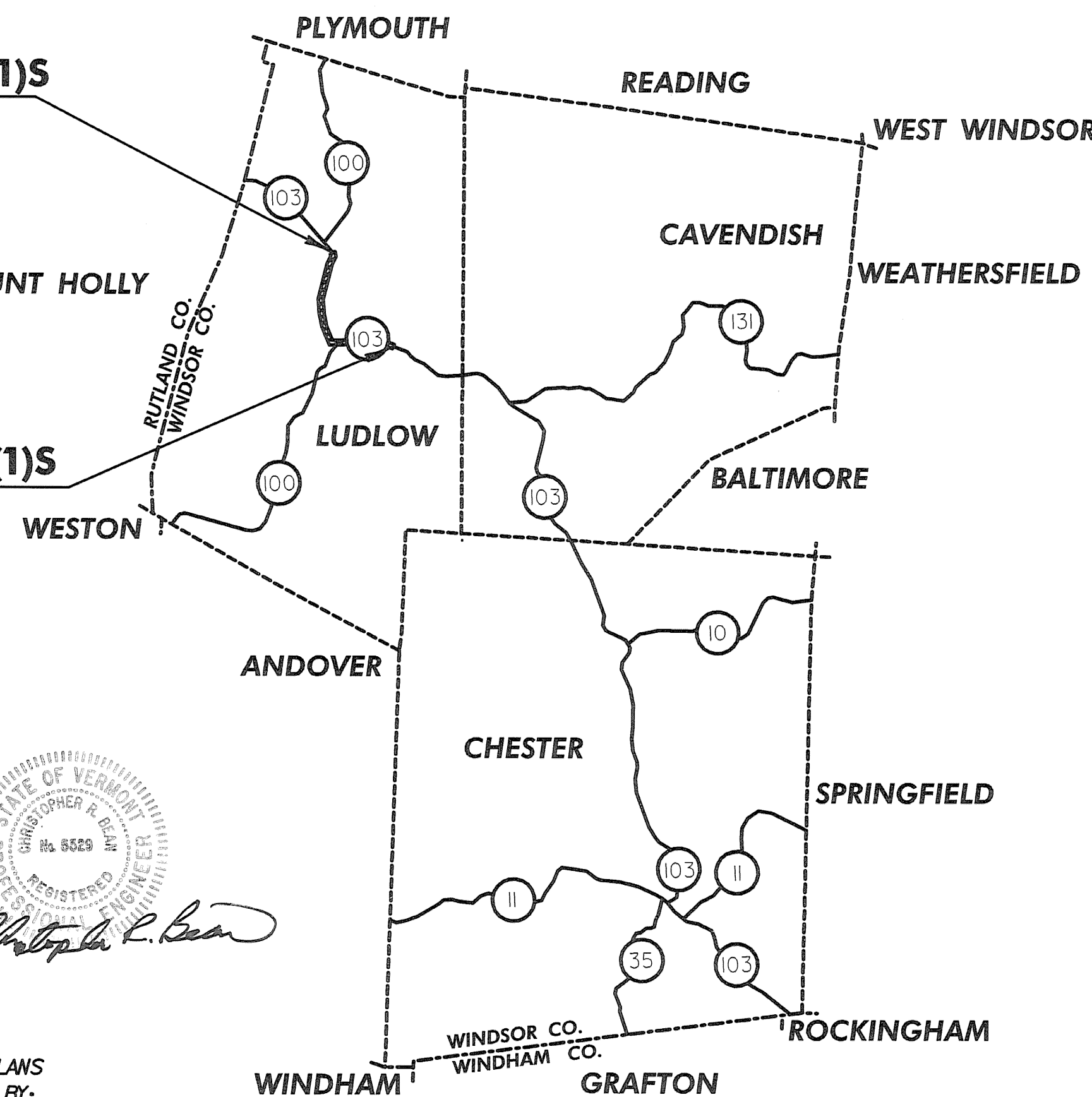
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES

TRAFFIC DATA	
MM 1.289 - 1.820	
2006 ADT	= 9500
2006 DHV	= 1200
2016 ADT	= 10900
2016 DHV	= 1400
2006-2016 ESALS	= 2,260,000
2006-2026 ESALS	= 5,353,000
MM 1.820 - 2.620	
2006 ADT	= 10400
2006 DHV	= 1300
2016 ADT	= 11900
2016 DHV	= 1500
2006-2016 ESALS	= 2,487,000
2006-2026 ESALS	= 5,975,000
MM 2.620 - 2.862	
2006 ADT	= 9100
2006 DHV	= 1200
2016 ADT	= 10400
2016 DHV	= 1300
2006-2016 ESALS	= 1,924,000
2006-2026 ESALS	= 4,566,000

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	2,987,500
DESIGN NUMBER OF GYRATIONS	75
PERFORMANCE GRADED ASPHALT BINDER	64-28

**END NH 2409(1)S
VT RTE 103
STA 151+12.00
(MM 2.862)**

**BEGIN NH 2409(1)S
VT RTE 103
STA 68+08.00
(MM 1.289)**

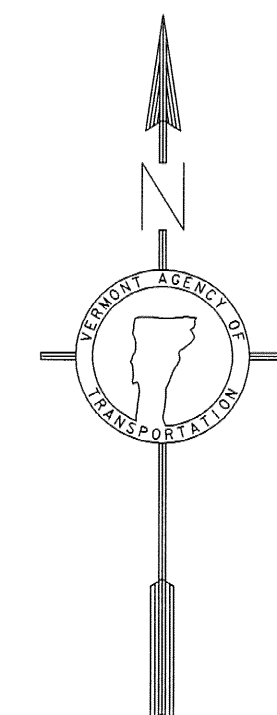


IMPERIAL PLANS
PREPARED BY:



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	

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



1 0 1 2
SCALE IN MILES

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 OF THE PROJECT PLANS ARE NOT TO SCALE
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 OTHER PURPOSES.

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <u>Mark Woolaver</u>	DATE <u>12-18-09</u>
PROJECT MANAGER: MARK WOOLAVER	
PROJECT NAME :	LUDLOW
PROJECT NUMBER :	NH 2409 (1) S
SHEET 1 OF 51 SHEETS	

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3-5	PROJECT TYPICAL SHEETS
6	TYPICAL PAVEMENT MARKING SHEET
7	SIDEWALK RAMP DETAIL SHEET
8-9	QUANTITY SHEETS
10-11	ITEM DETAIL SHEETS
12-29	PAVING PROJECT LAYOUT SHEETS
30	INTERSECTION DETAIL SHEET
31	LOOP DETECTOR LAYOUT SHEET
32	SIDEWALK DETAIL SHEET
33-49	TRAFFIC SIGN SUMMARY SHEETS
50	SIGN DETAIL SHEET
51	CONSTRUCTION APPROACH SIGNING

STANDARDS

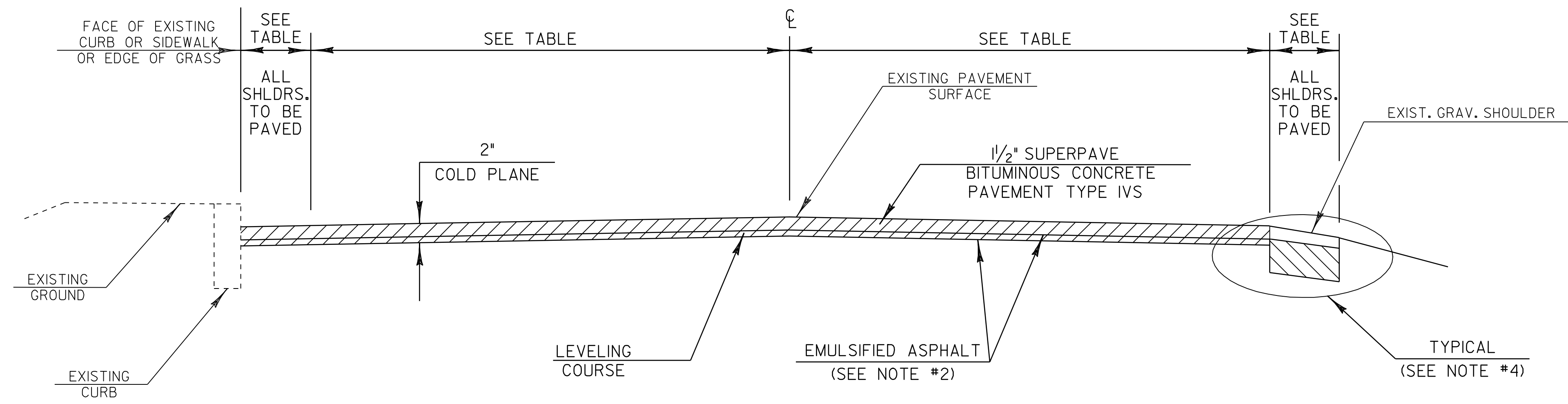
C-1	VERTICAL GRANITE CURB	01/03/00
C-3A	SIDEWALK RAMPS	09/01/04
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	09/01/04
D-15	PRECAST REINFORCED CONC. MH-GRATES (BICYCLE SAFE) CAST IRON GRATE WITH FRAME, TYPE D	
	CAST IRON GRATE WITH FRAME, TYPE E	06/01/94
E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGNS DETAILS	05/30/03
E-102	CONSTRUCTION SIGNS DETAILS	06/30/03
E-102A	CONSTRUCTION APPROACH SIGNS	05/01/04
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	03/01/04
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/95
E-111	MINOR MAINTENANCE OPERATION	03/11/97
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/95
E-123	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	03/16/04
E-134	BRIDGE NUMBER PLAQUE	08/08/95
E-135	INTERSTATE ROUTE MARKER SIGN DETAIL	08/18/95
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/95
E-138	MILE MARKER DETAILS-STATE AND TOWN HIGHWAYS	05/30/03
E-141	REGULATORY SIGN DETAILS	09/20/95
E-142	REGULATORY SIGN DETAILS	09/20/95
E-143	REGULATORY SIGN DETAILS	06/15/04
E-145A	REGULATORY SIGN DETAILS-LANE USE CONTROL SIGNS	12/23/94
E-152	WARNING SIGN DETAILS	05/01/04
E-153	WARNING SIGN DETAILS	05/01/04
E-153B	WARNING SIGN DETAILS	05/30/03
E-160	FLANGED CHANNEL STEEL SIGN POST	05/20/99
E-164	SQUARE STEEL SIGN POST	05/20/99
E-172	VEHICLE DETECTOR LOOP DETAILS	08/09/95
E-191	PAVEMENT MARKING DETAILS	02/01/99
E-192	PAVEMENT MARKING DETAILS	10/12/00
E-193	PAVEMENT MARKING DETAILS	08/18/95
G-1	STEEL BEAM GUARDRAIL (50 MPH & OVER)	01/03/00
	HEAVY DUTY STEEL BEAM GUARDRAIL	
	TWISTED END TERMINAL	
	ANCHOR FOR STEEL RAIL	
G-1 d	STEEL BEAM GUARDRAIL (40 MPH & LESS)	01/03/00
	HEAVY DUTY STEEL BEAM GUARDRAIL	
	STEEL BEAM MEDIAN BARRIER	
	ANCHOR FOR STEEL BEAM RAIL	

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

INDEX OF SHEETS	SURVEYED BY	CLD	DATE	11/05
	DRAWN BY	MRS	DATE	5/06
	SQUAD LEADER	PTS		
	DESIGN FILE NO.	/pave/05B008/pb008.dgn		
	IPARM FILE	pb008in.i	DATE	20MAY-2010 14
			PLT	
	PROJ. NAME	LUDLOW		
	PROJ. NO.	NH 2409(1)S		
	SHEET	2	OF	51 SHEETS

GENERAL NOTES

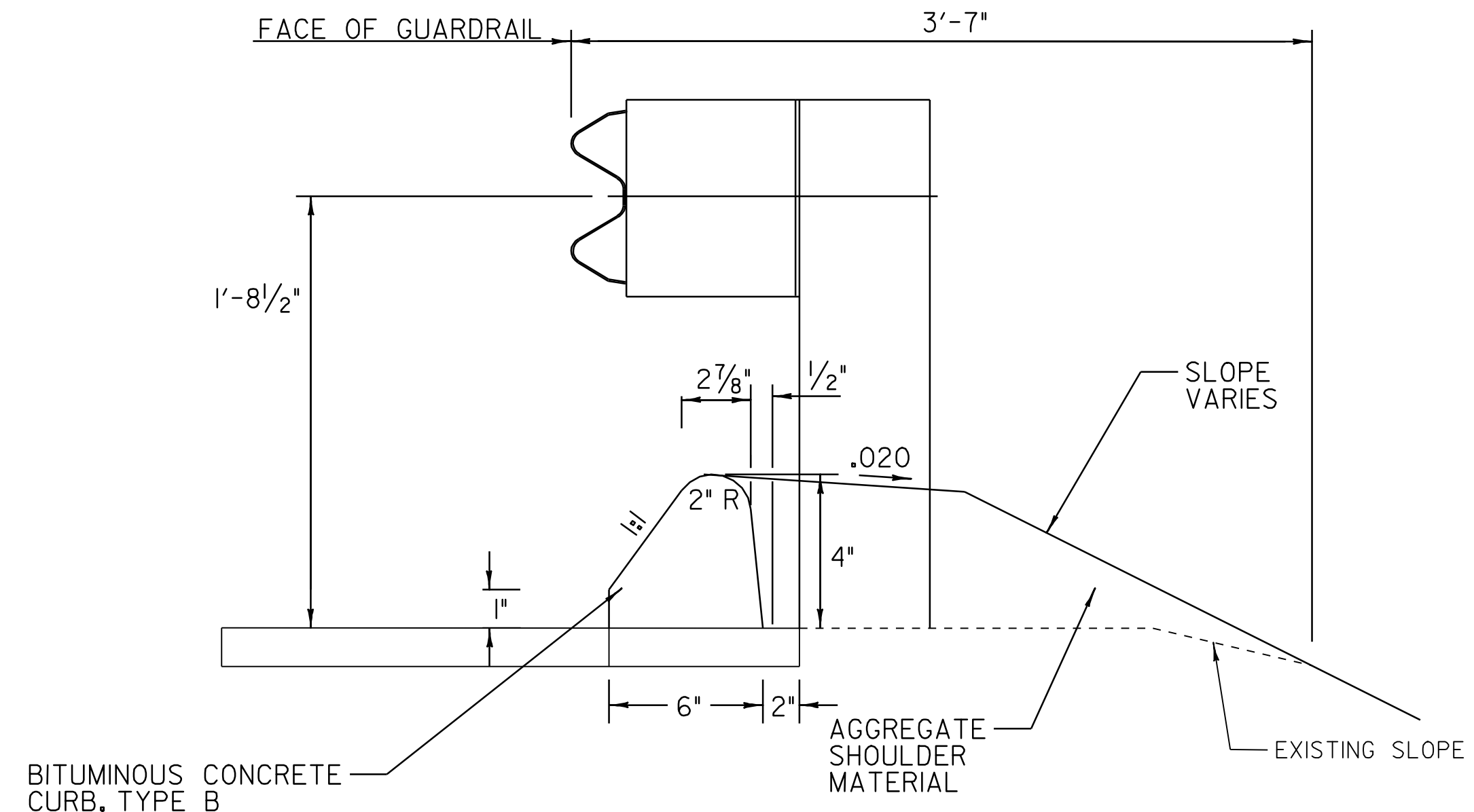
1. THE WEARING COURSE AND LEVELING SHALL BE TYPE IVS, ITEM 490.30 AS SHOWN ON THE TYPICALS, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 64-28.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.026 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" ± (TOTAL THICKNESS EXCLUDING LEVELING COURSE).
4. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" + OR 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. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED.
5. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICALS OR AS DENOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 490.30.
6. ESTIMATED QUANTITIES OF ITEM 608.25, ALL PURPOSE EXCAVATOR RENTAL, TYPE I AND 608.37, TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF AGGREGATE SHOULDERS, RAP UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDERS, RAP FOR EACH GUARDRAIL TERMINAL. AN ESTIMATED QUANTITY OF EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR ADDITIONAL MATERIAL, IF NEEDED, FOR FLARE CONSTRUCTION.
7. GRASS GROWING ADJACENT TO PAVEMENT, OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE REPLACEMENT OF NEW BITUMINOUS CONCRETE, SHALL BE REMOVED BY THE CONTRACTOR OR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28).
8. ITEM 604.40 AND 604.412 ARE ESTIMATED QUANTITIES AND SHALL BE PERFORMED AT LOCATIONS INDICATED ON THE LAYOUT SHEETS AND AS DIRECTED BY RESIDENT ENGINEER. ALL D'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
9. ALL GUARDRAIL USED ON THIS PROJECT SHALL BE STEEL BEAM WITH STEEL POSTS AND WOOD BLOCKOUTS (OR ACCEPTED ALTERNATE).



COLD PLANE TYPICAL SECTION

NOT TO SCALE

LUDLOW - STA 68+08 TO 151+12



DETAIL FOR BITUMINOUS CONCRETE CURB, TYPE B

NOT TO SCALE

PROJECT PAVING LIMITS

TOWN	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING TONS	NOTES
VT ROUTE 103	68+08	74+75	2.0-12.0-12.0-2.0	1 1/2"	57.6	COLD PLANE, LEVEL AND OVERLAY
LUDLOW	74+75	75+50	VARIES SEE LAYOUT	1 1/2"	7.2	COLD PLANE, LEVEL AND OVERLAY
	75+50	78+45	5.0-12.0-12.0-5.0	1 1/2"	31.0	COLD PLANE, LEVEL AND OVERLAY
	78+45	78+91	VARIES SEE LAYOUT	1 1/2"	4.5	COLD PLANE, LEVEL AND OVERLAY
	78+91	82+00	2.0-12.0-12.0-5.0	1 1/2"	29.6	COLD PLANE, LEVEL AND OVERLAY
	82+00	83+00	VARIES SEE LAYOUT	1 1/2"	9.6	COLD PLANE, LEVEL AND OVERLAY
	83+00	95+00	3.0-12.0-12.0-5.0	1 1/2"	118.5	COLD PLANE, LEVEL AND OVERLAY
	95+00	96+93	VARIES SEE LAYOUT	1 1/2"	31.2	COLD PLANE, LEVEL AND OVERLAY
	96+93	99+08	12.0-12.0-12.0-6.0	1 1/2"	27.9	COLD PLANE, LEVEL AND OVERLAY
	99+08	101+20	VARIES SEE LAYOUT	1 1/2"	22.9	COLD PLANE, LEVEL AND OVERLAY
	101+20	102+43	2.0-12.0-12.0-2.0	1 1/2"	10.6	COLD PLANE, LEVEL AND OVERLAY, BRIDGE 25
	102+43	125+14	VARIES SEE LAYOUT	1 1/2"	308.6	COLD PLANE, LEVEL AND OVERLAY, BRIDGE 26
	125+14	134+25	10.0-12.0-12.0-10.0	1 1/2"	123.7	COLD PLANE, LEVEL AND OVERLAY
	134+25	142+00	VARIES SEE LAYOUT	1 1/2"	109.2	COLD PLANE, LEVEL AND OVERLAY
	142+00	149+58	10.0-12.0-12.0-10.0	1 1/2"	123.9	COLD PLANE, LEVEL AND OVERLAY

SEEDING FORMULA - URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREeping RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

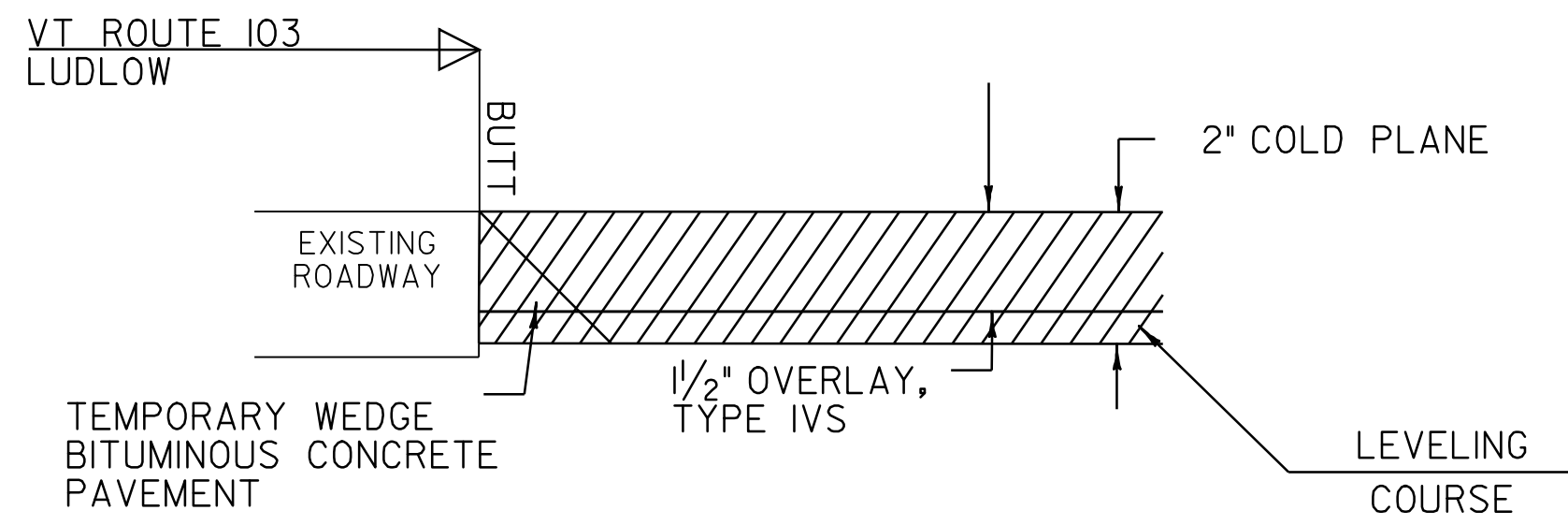
SEEDING NOTES

- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.
- FERTILIZER: 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: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- HAY MULCH: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

PROJECT TYPICAL SHEET 1

SURVEYED BY	CLD	DATE	11/05
DRAWN BY	MRS	DATE	5/06
SQUAD LEADER	PTS		
DESIGN FILE NO.	/pave/05B008/pb008.dgn		
IPARM FILE	pb008ty01.i	DATE	10MAY-2010 14
PROJ. NAME	LUDLOW		
PROJ. NO.	NH 2409(1)S		
SHEET	3	OF	51 SHEETS

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



APPROACH AREA DETAIL

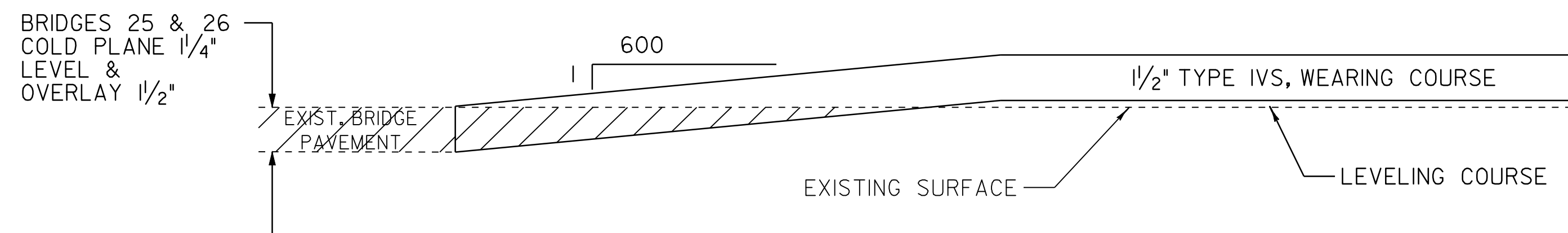
NOT TO SCALE

LOCATION

VT RTE 103
 STA 68+08, LUDLOW - BEGIN COLD PLANING
 STA 151+12, LUDLOW - END COLD PLANING

TOWN HIGHWAYS:

TH #320 RT	TH #324 LT
TH #316 RT	SA #4 RT
TH #326 LT	TH #314 RT
TH #328 LT	TH #330 LT
TH #330 RT	VT #100 LT
TH #354 LT	TH #360 LT
TH #356 LT	TH #362 LT
TH #364 LT	SA #3 LT
TH #363 LT	



BRIDGE COLD PLANE DETAIL

NOT TO SCALE

LUDLOW
 BRIDGE #25 - STA 101+63 TO 102+49
 BRIDGE #26 - STA 118+06 TO 118+55

NOTES:
 THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A REGULAR BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE.

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

PROJECT TYPICAL SHEET 2	SURVEYED BY <u>CLD</u> DATE <u>11/05</u>
	DRAWN BY <u>MRS</u> DATE <u>5/06</u>
	SQUAD LEADER <u>PTS</u>
	DESIGN FILE NO. <u>/pave/05B008/pb008.dgn</u>
	IPARM FILE <u>pb008ty02.i</u> DATE PLOTTED <u>2010-05-14</u>
PROJ. NAME <u>LUDLOW</u>	
PROJ. NO. <u>NH 2409(1)S</u>	
SHEET <u>4</u> OF <u>51</u> SHEETS	

ASPHALTIC PLUG BRIDGE JOINT GENERAL NOTES

INSTALLATION:

THE JOINT SHALL BE LOCATED CENTRALLY OVER THE DECK EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.

THE JOINT SHALL BE EXCAVATED AS SHOWN ON THE PLANS BY USE OF SAWS AND PNEUMATIC HAMMER OR A HAMMER AND CHISEL.

THE JOINT AREA SHALL BE BLAST CLEANED OF DEBRIS AND ASPHALT. THE JOINT AREA SHALL BE THOROUGHLY DRIED USING HOT COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.

SPALLED AND DEFECTIVE CONCRETE SHALL BE REPAIRED WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.

PROPERLY SIZED HEAT RESISTANT BACKER ROD SHALL BE PLACED IN THE MOVEMENT GAP ALLOWING FOR 25MM (1 INCH) +/- OF BINDER ABOVE THE ROD.

THE BINDER MATERIAL SHALL BE HEATED AND PLACED AS RECOMMENDED BY THE MANUFACTURER.

PLACE 6 MM (1/4 INCH) THICK BY 200 MM (8 INCH) WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER.

- A. THE STEEL PLATES MAY BE OMITTED WHERE THE APPROACH SLAB IS COVERED WITH A STONE BASE OR BITUMINOUS PAVEMENT, AND VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.

THE BINDER MATERIAL AND AGGREGATE SHALL BE HEATED AND MIXED AS RECOMMENDED BY THE MANUFACTURER.

THE INSTALLATION OF MATERIAL, COMPACTION, AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

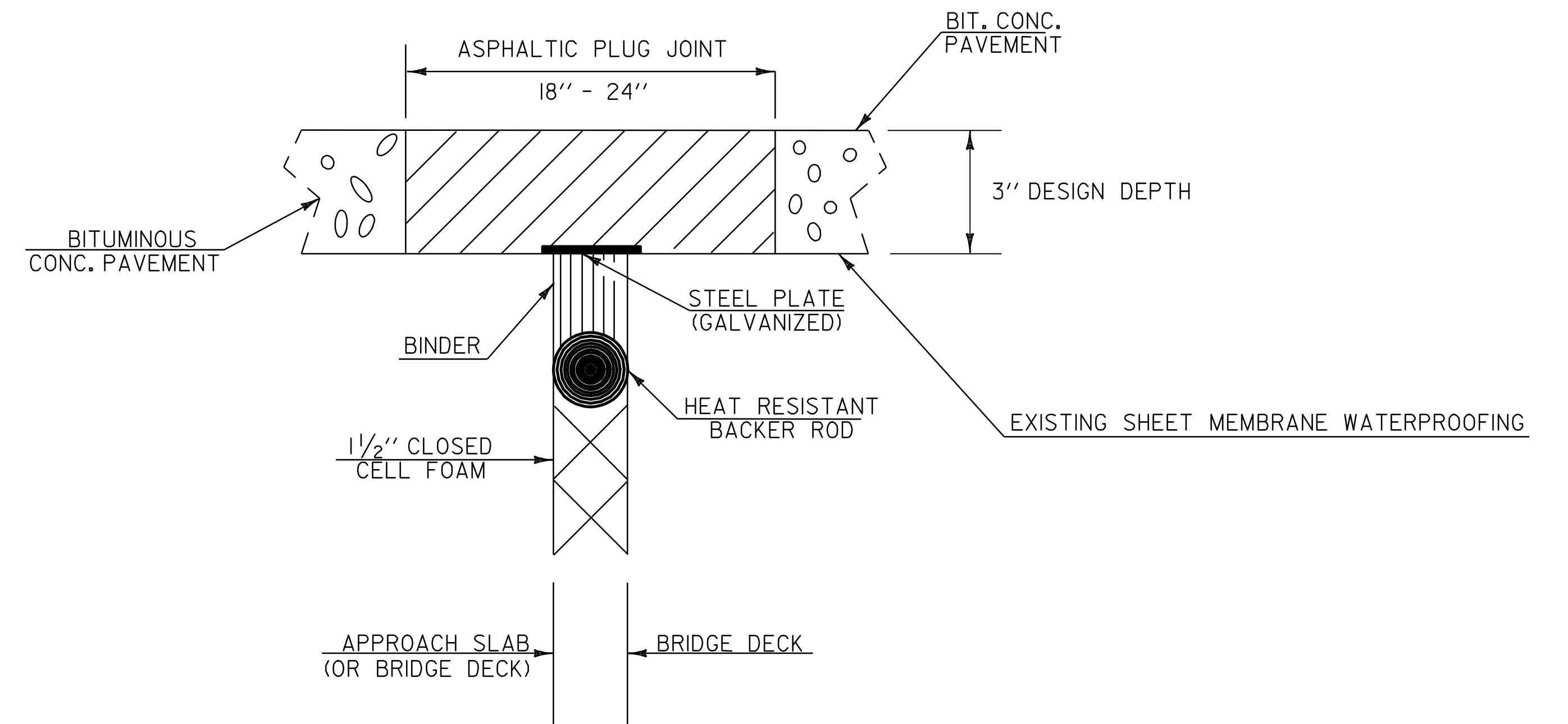
IMMEDIATELY AFTER TOPCOATING, AN ANTI-SKID MATERIAL SHALL BE CAST OVER THE JOINT TO REDUCE THE RISK OF TRACKING.

JOINT SHALL BE PROTECTED FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 52 C° +/- (125°F).

WEATHER LIMITATIONS:

BINDER MATERIAL SHALL BE APPLIED ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL:

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



ASPHALTIC PLUG-TYPE JOINT DETAIL

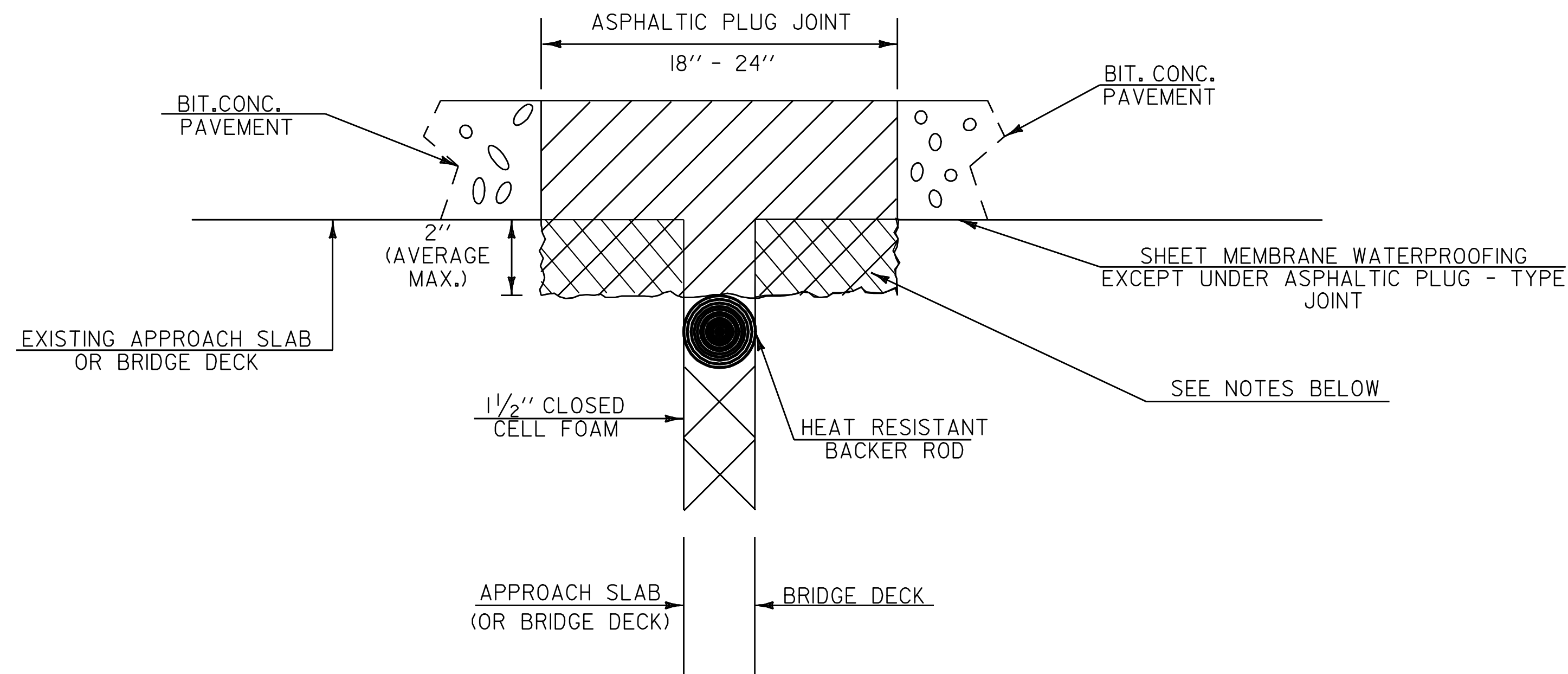
NOT TO SCALE

LUDLOW			
BRIDGE #25	-	STA 101+63,	34 FT
		STA 102+06,	34 FT
		STA 102+49,	34 FT
BRIDGE #26	-	STA 118+06,	61 FT
		STA 118+55,	52 FT

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

PROJECT TYPICAL SHEET 3

SURVEYED BY	CLD	DATE	11/05
DRAWN BY	MRS	DATE	5/06
SQUAD LEADER	PTS		
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IPARM FILE	pb008ty03.i	DATE PLOTTED	20 MAY-2010 14:47
PROJ. NAME	LUDLOW		
PROJ. NO.	NH 2409(1)S		
SHEET	5	OF	51 SHEETS

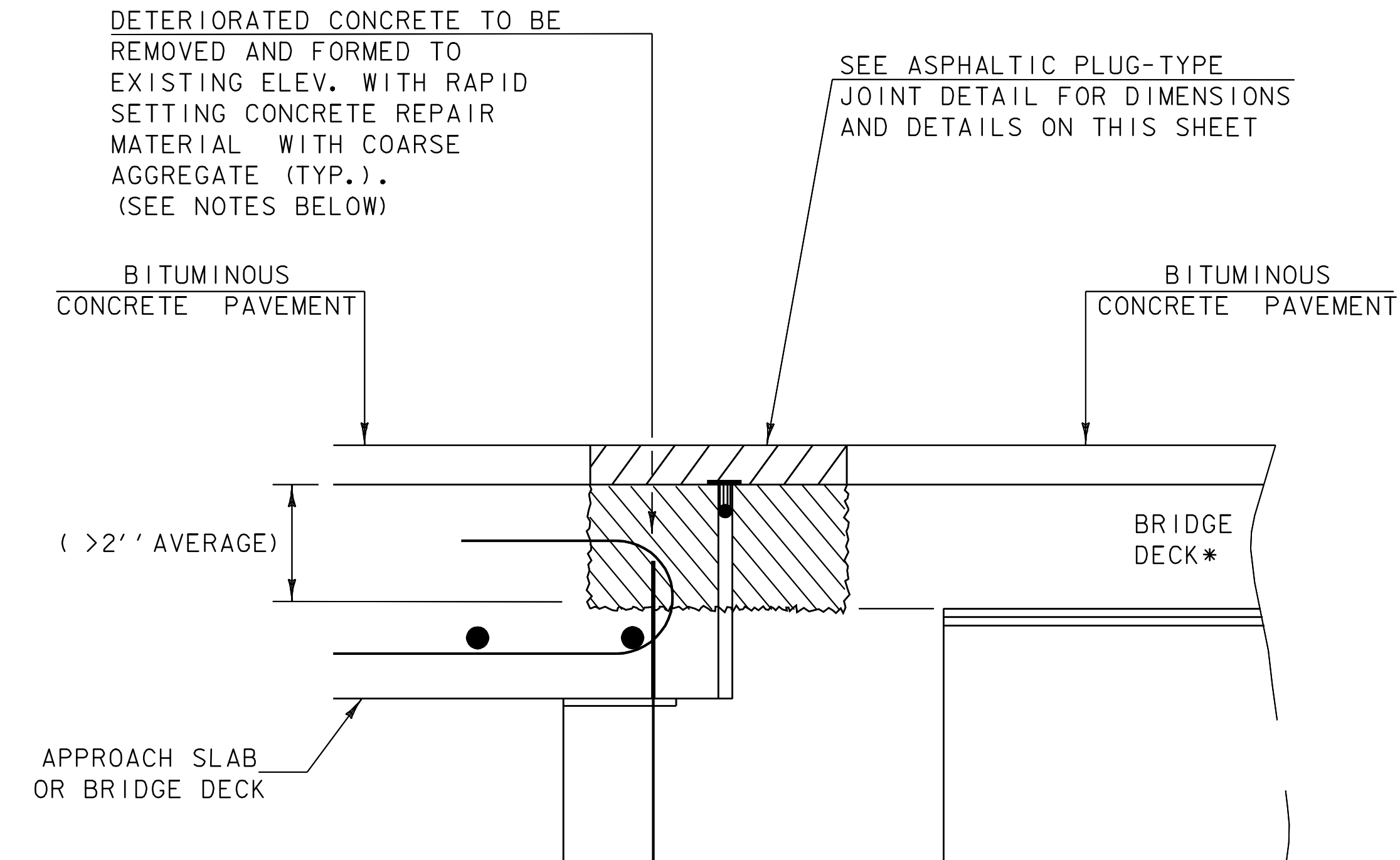


**ASPHALTIC PLUG-TYPE
JOINT DETAIL
REMOVAL OF UP TO
2" DETERIORATED CONCRETE**

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.
- THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.



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

*BRIDGE DECK REINFORCEMENT
NOT SHOWN FOR CLARITY

NOT TO SCALE

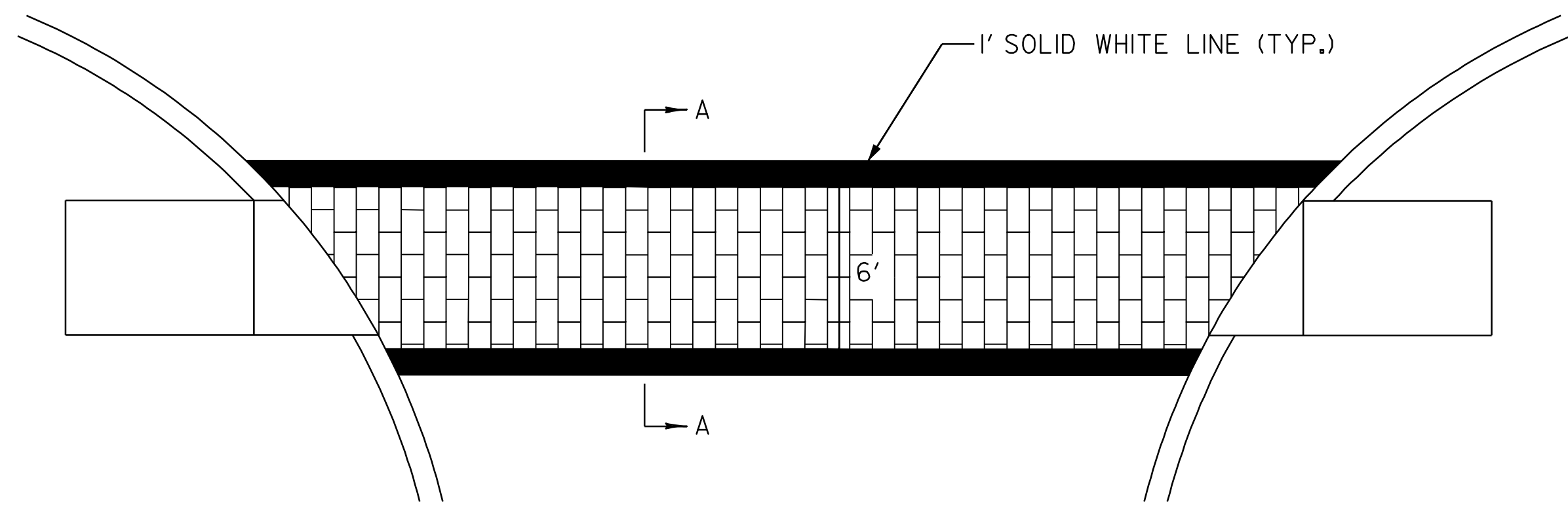
NOTES:

- 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.
- 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".
- THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.

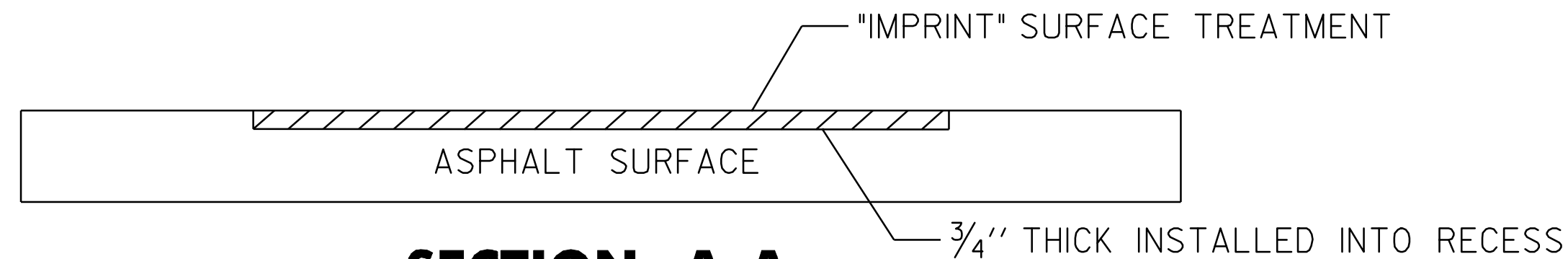
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

**PROJECT
TYPICAL
SHEET 3**

SURVEYED BY	CLD	DATE	11/05
DRAWN BY	MRS	DATE	5/06
SQUAD LEADER	PTS		
DESIGN FILE NO.	/pave/05B008/pb008.dgn		
IPARM FILE	pb008ty03.i	DATE PLOTTED	MAY-2010 14
PROJ. NAME	LUDLOW		
PROJ. NO.	NH 2409(1)S		
SHEET	5A	OF	51 SHEETS



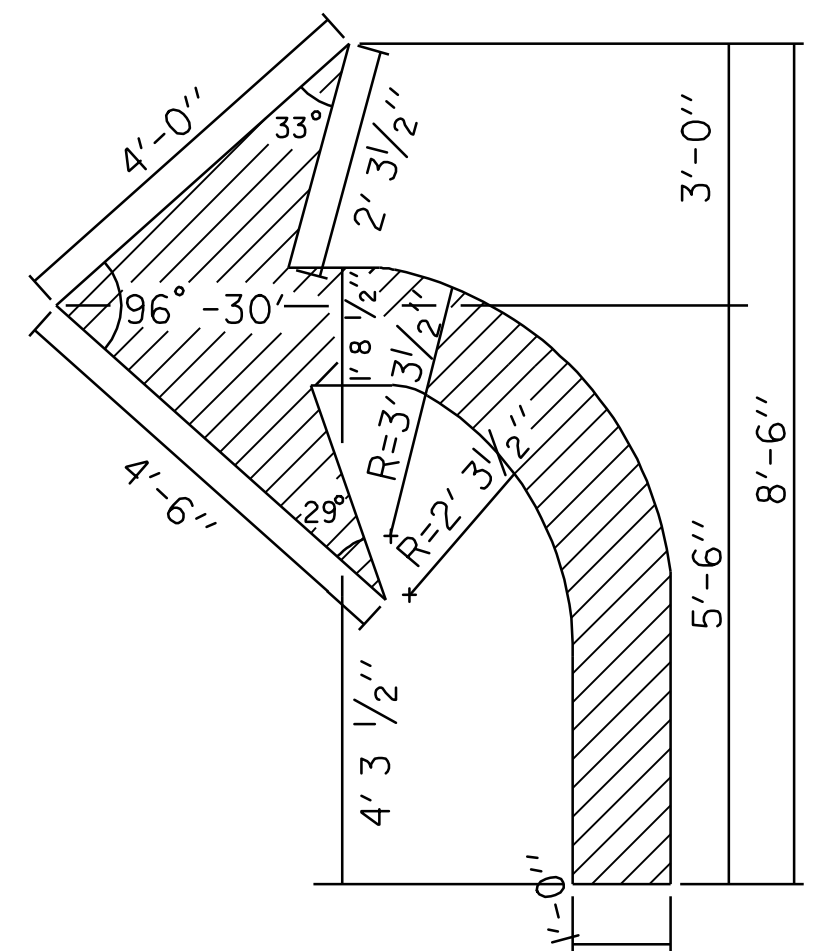
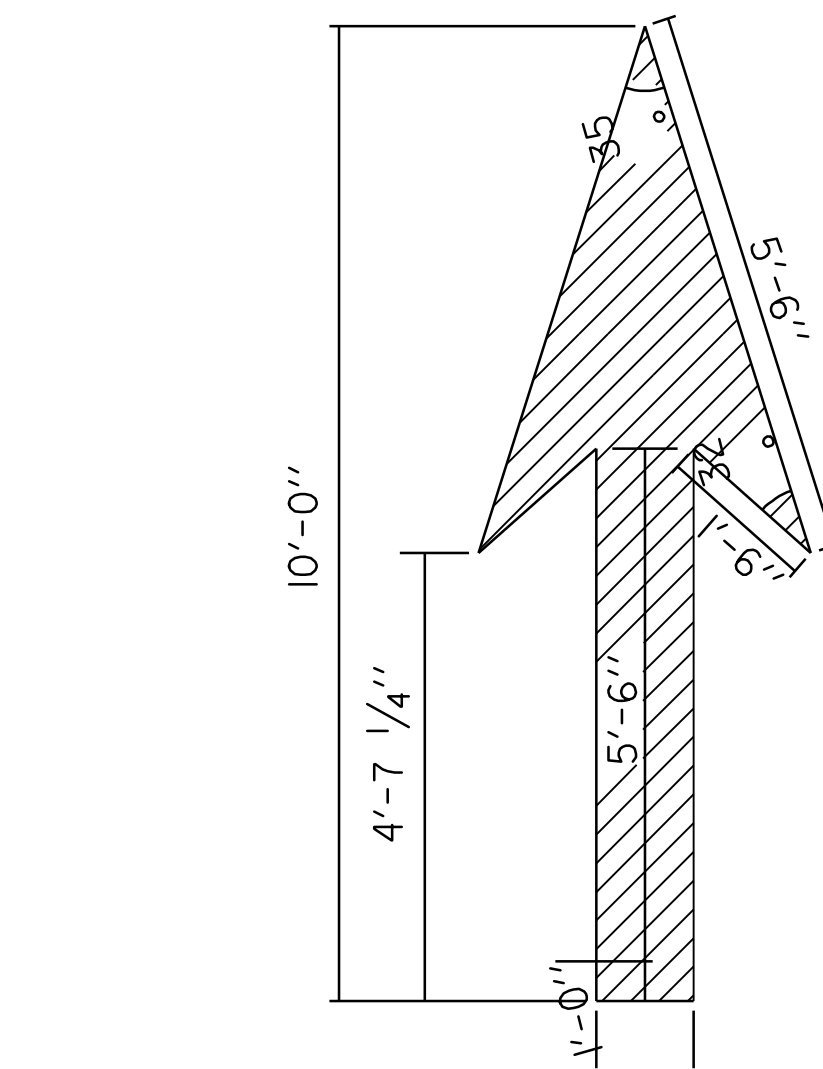
DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED



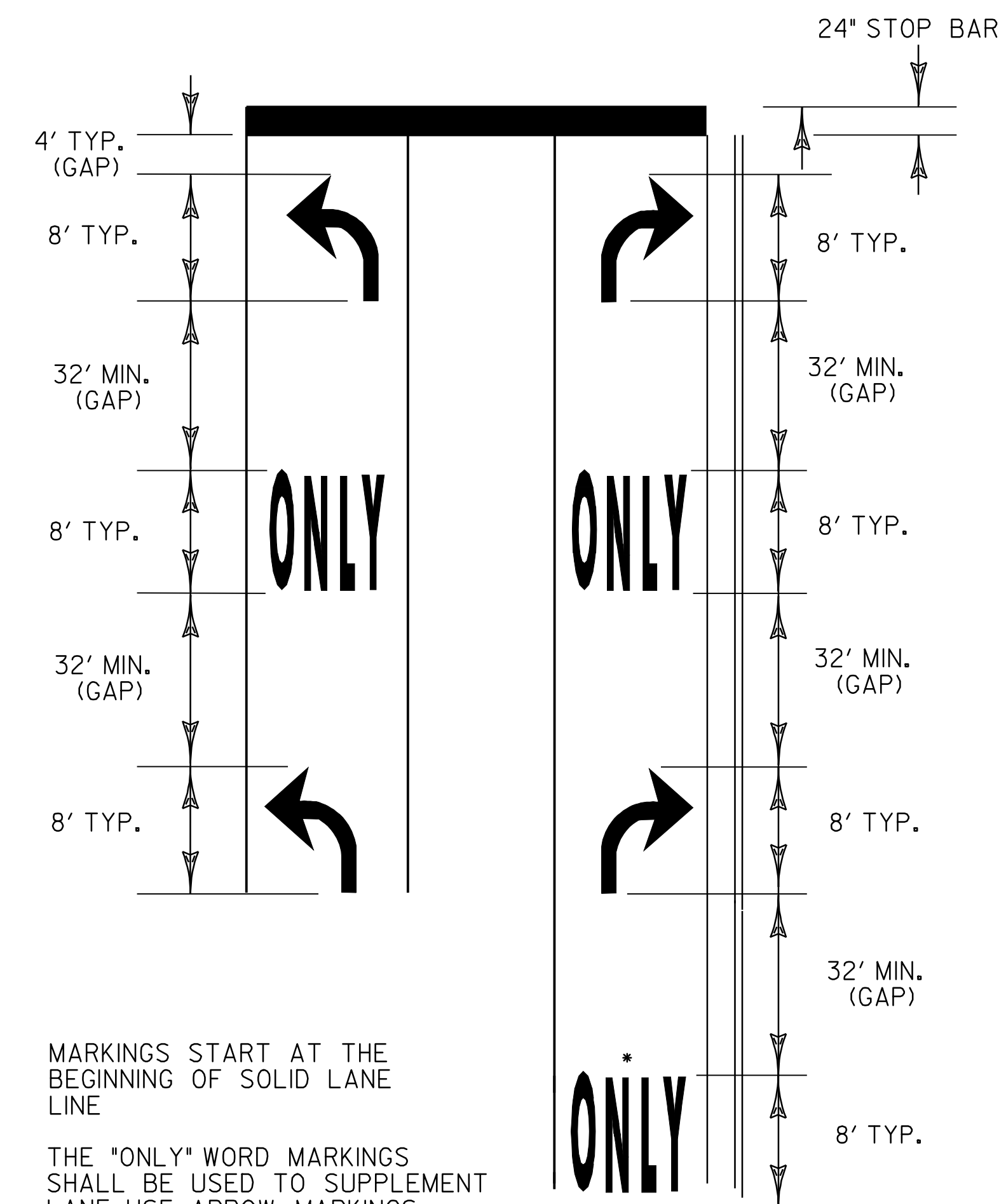
SECTION A-A
NOT TO SCALE

NOTES:

1. SAWCUT PAVEMENT AT EDGES AND REMOVE PAVEMENT INSIDE THE CROSSWALK TO SPECIFIED DEPTHS.
2. SURFACING SHALL BE A HOT APPLIED MODIFIED SYNTHETIC ASPHALT COMPOUND, 'IMPRINT' TECHNOLOGY, OR EQUAL.
3. MATERIAL GRADE OF THE SURFACING TREATMENT SHALL MEET THE REQUIREMENTS FOR HEAVILY TRAFFICKED ROADS AND NORTHERN U. S. TEMPERATURES.
4. INSTALL PER MANUFACTURERS INSTRUCTIONS.
5. CROSSWALKS:
-SURFACING SHALL BE A THROUGH OXIDE RED COLOR MATERIAL NOT SURFACE PAINTED.
-SURFACE SHALL BE STAMPED WITH A STANDARD BRICK PATTERN.
6. THE COLOR OF THE DETECTABLE WARNING SURFACE SHALL BE COLOR CHIP FS36496 PER FEDERAL STANDARD 595B.



ARROW DETAILS



MARKINGS START AT THE BEGINNING OF SOLID LANE LINE

THE "ONLY" WORD MARKINGS SHALL BE USED TO SUPPLEMENT LANE-USE ARROW MARKINGS

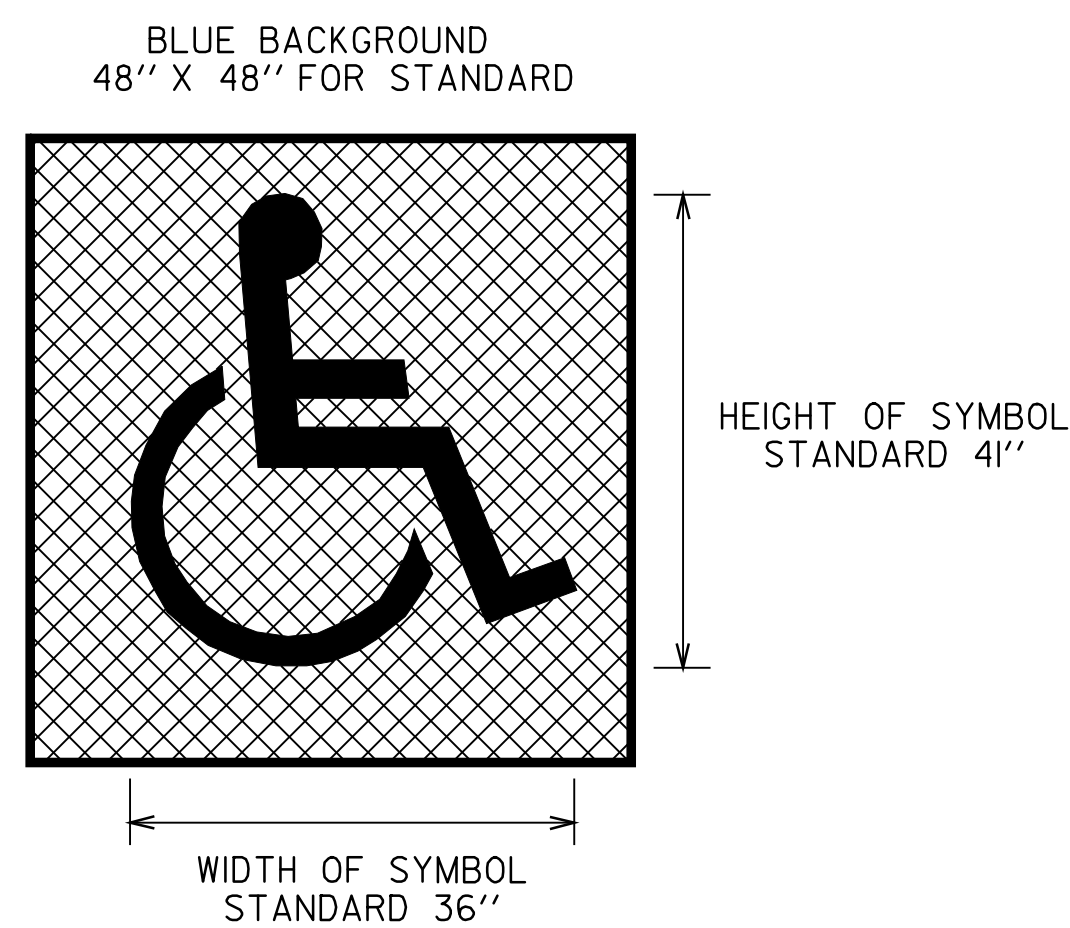
IF LANE LENGTH IS LESS THAN 50 FEET ONLY ONE TURN ARROW, PLACED AT THE BEGINNING OF THE SOLID LANE LINE, IS REQUIRED.

* A SECOND "ONLY" IS OPTIONAL WHEN SPACE PERMITS. MARKINGS START AT THE BEGINNING OF THE SOLID LANE LINE.

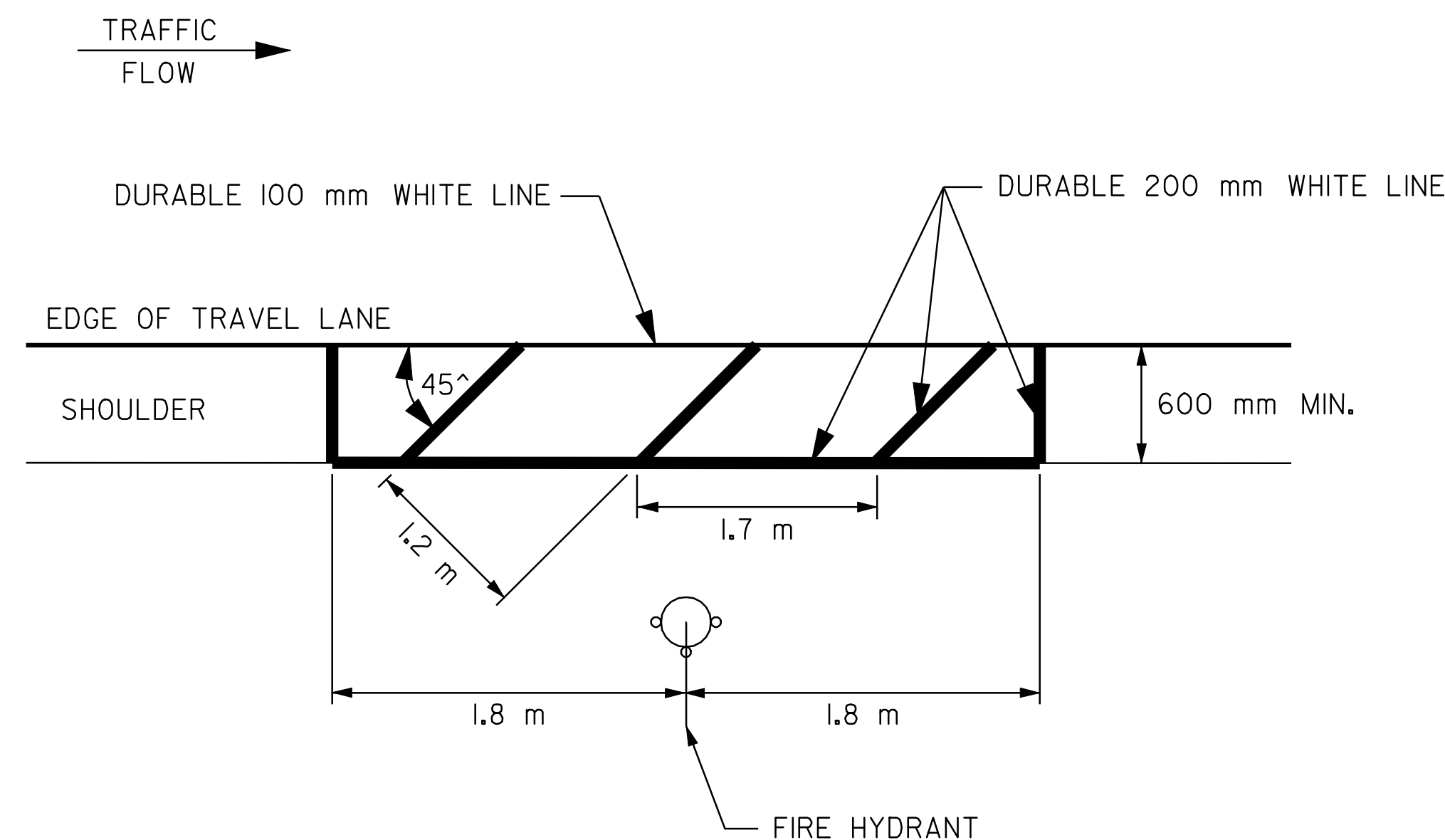
THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS.

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.

TYPICAL MARKINGS FOR TURN LANES



HANDICAP PARKING SYMBOL
PAID UNDER ITEM 646.491,
DURABLE LETTER OR SYMBOL
@ 2 EACH PER LOCATION.

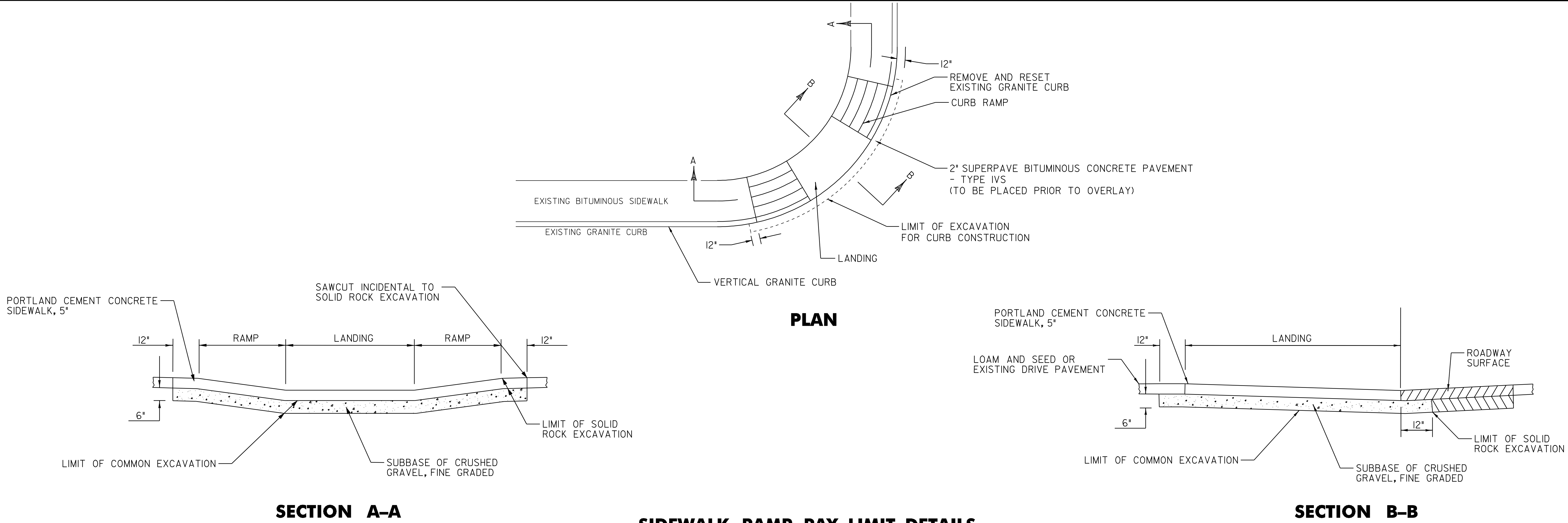


FIRE HYDRANT PAVEMENT MARKING DETAIL
N.T.S.

TYPICAL PAVEMENT MARKINGS SHEET

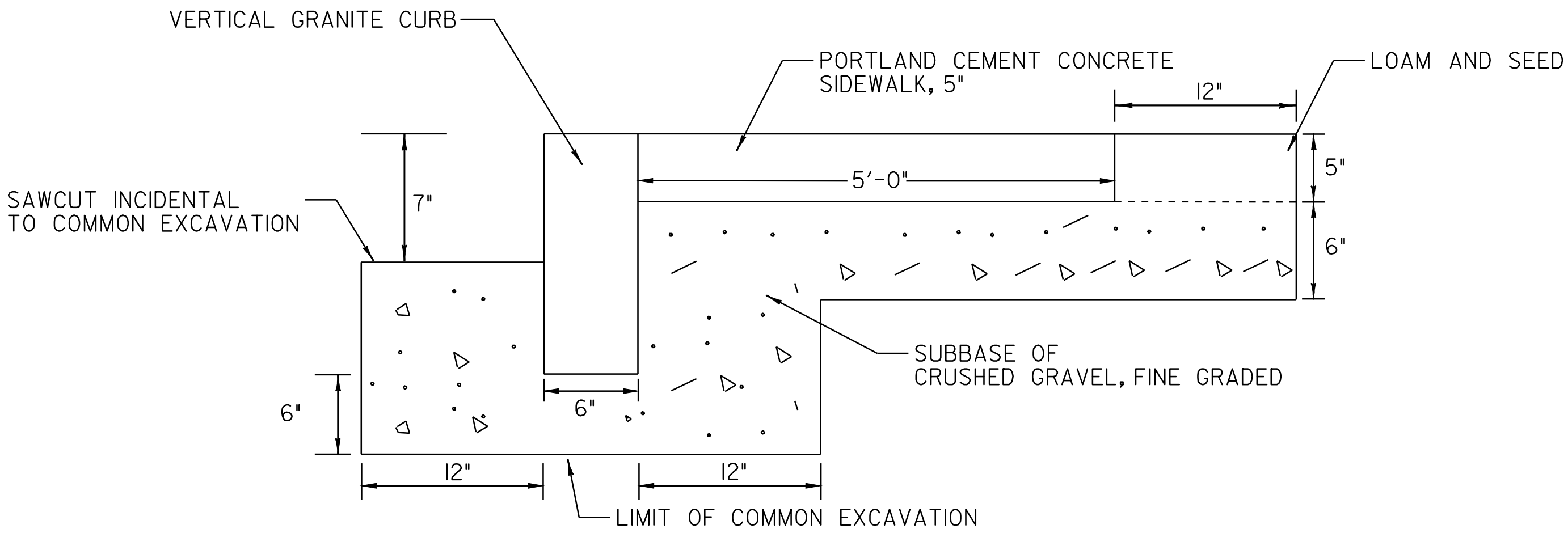
SURVEYED BY	CLD	DATE	11/05
DRAWN BY	MRS	DATE	5/06
SQUAD LEADER	PTS		
DESIGN FILE NO.	/pave /05B008/pb008.dgn		
IPARM FILE	pb008tpm.i	DATE PLOTTED	MAY-2010 14
PROJ. NAME	LUDLOW		
PROJ. NO.	NH 2409(1)S		
SHEET	6	OF	51 SHEETS

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



SIDEWALK RAMP PAY LIMIT DETAILS

NOTE: THIS DETAIL IS FOR PAY LIMITS ONLY. FOR INDIVIDUAL RAMP CONFIGURATIONS, SLOPES, DIMENSIONS, ETC., SEE VTRANS STANDARDS C-3A & C-3B.



SIDEWALK AND CURB CONSTRUCTION DETAIL

SIDEWALK RAMP DETAIL SHEET

PROJECT:	<u> LUDLOW </u>	PROJECT NO.:	<u> NH 2409(1)S </u>
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:
IPARM FILE NAME:	pb008d+01.t	SURVEY DATE:	11/05
SURVEYED BY:	CLD	DRAWN BY:	MRS
SQUAD LEADER:	EIS	SHEET:	7 OF 51
CLD_05-0389			

DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES				TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
ROADWAY	BRIDGE	FULL C.E. ITEMS		QUANTITY	UNIT	ITEM NUMBER	QUANTITY	UNIT	ITEM NUMBER	QUANTITY	UNIT
				1	EACH	201.31					
				350	CY	203.15					
				100	CY	203.28					
				30	CY	203.30	EST.				
				1	CY	204.22	EST.				
				38800	SY	210.10	429				
				550	TON	301.28	50.7				
				200	TON	402.13	56				
				160	CWT	404.65	2				
				1	LU	498.50	-				
				4500	TON	490.30	-				
				1	LU	490.31	-				
				1	LU	490.32	-				
				1	LU	490.33	-				
				210	LF	516.10	3				
				10	CF	580.20	EST.				
				54	EACH	604.40	EST.				
				3	EACH	604.412	EST.				
				24	EACH	604.42	EST.				
				10	HR	608.15	EST.				
				10	HR	608.25	EST.				
				40	HR	608.31	EST.				
				10	HR	608.37	EST.				
				1719	LF	616.31	20				
				20	TON	616.31	1.1				
				175	LF	616.40	1				
				5	TON	616.47	EST.				
				640	SY	618.10	6.8				
				520	SF	618.30	10				
				1650	LF	621.205	20				
				1	EACH	621.60	-				
				5	EACH	621.76	EST.				
				10	EACH	621.77	EST.				
				1900	LF	621.80	11				
				31	EACH	629.20	EST.				
				650	HR	630.10	EST.				
				2500	HR	630.15	EST.				
				1	LS	631.10	-				
				1	LS	631.16	-				
				1	LS	631.17	-				

PROJECT NAME: LUDLOW
 PROJECT NUMBER: NH 2409(1)S
 FILE NAME: 000000000000.dwg
 PROJECT MANAGER: M. WOODLAW
 DESIGNED BY: JLR
 QUANTITY SHEET #1
 SHEET 3 OF 11

LOCATION			CURBED SIDEWALKS					DROP INLETS			GUARDRAIL					MISC.			REMARKS
STATION	STATION	POS.	203.15	301.28	616.21	616.40	618.10	604.40	604.412	616.31	621.205	621.60	621.80	604.42	616.47	629.20			
			COMM. EXCAV. CY	SUBBASE OF CR. GRAV. (FINE) TON	VERTICAL GRANITE CURB FT	REMOVING RESETTING CURB FT	PORT. CEM. CONC. SDWK 5 INCHS SY	CHANGE ELEV. D. I. EA	REHAB. D. I. CLASS I EA	BIT. CONCRETE CURB TON	S. B. G. R GALV. W/ 8' POSTS FT	ANCHOR FOR G. R. EA	REMOVE & DISP. G. R. FT	CHANGE ELEV. SMH EA	BIT. CONC. GUTTERS & ISLANDS EA	ADJUST ELEV. VALVE BOX EA			
68+08	LUDLOW 151+12	LT&RT						54	3					24	5	31	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.		
81+63		LT	5.8	8.4	19.0		11.4										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
81+63		RT	5.8	8.4	19.0		11.4										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
83+12		RT	4.0	6.4	20.0		5.3										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
83+41		RT	4.0	6.4	20.0		5.3										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
86+46		RT	5.0	7.9	12.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1		
86+85		RT	5.0	7.9	12.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1		
88+72		RT	4.8	7.5	20.0		7.8										CONSTRUCT SIDEWALK RAMP TYPE 2 W/DETECTABLE WARNING SURFACE (CAST IRON)		
88+72		LT	5.1	7.6	19.0		9.7										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
89+02		LT	5.1	7.6	19.0		9.7										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
94+79		RT	4.0	6.4	20.0		5.3										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
95+09		RT	5.0	7.9	24.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
95+23	95+50	RT	6.1	7.9	20.0	8.0	15.6										RECONSTRUCT SIDEWALK		
97+47		LT	5.0	7.9	24.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
97+65		LT	5.0	7.9	24.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
98+62		LT	5.8	8.4	19.0		11.4										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
98+62		RT	4.8	7.5	20.0		7.8										CONSTRUCT SIDEWALK RAMP TYPE 2 W/DETECTABLE WARNING SURFACE (CAST IRON)		
99+81		RT	5.0	7.9	24.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
100+68		RT	5.1	7.6	19.0		9.7										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
101+20	101+52	LT	8.1	12.3		32.0	14.1										RECONSTRUCT SIDEWALK		
101+34	101+78	RT	11.4	16.9		40.0	21.1										RECONSTRUCT SIDEWALK		
102+43	102+90	LT			226.0												INTERSECTION REALIGNMENT		
102+60	102+99	RT	10.0	15.2		40.0	17.6										RECONSTRUCT SIDEWALK		
102+65		LT	4.5	6.7	19.0		8.4										CONSTRUCT SIDEWALK RAMP TYPE 5 W/DETECTABLE WARNING SURFACE (CAST IRON)		
102+85	103+07	LT	16.1														EXCAVATION OF ISLAND		
103+07	103+98	LT			364.0												INTERSECTION REALIGNMENT		
103+08		LT	5.0	7.9	24.0		7.6										CONSTRUCT SIDEWALK RAMP TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)		
103+08		RT	5.8	8.4	19.0		11.4										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
103+22	103+97	LT		14.7			44.0										CONSTRUCT PORTLAND CEMENT CONCRETE SIDEWALK, 5"		
107+70	107+89	RT	5.1	7.3	19.0		10.3										CONSTRUCT PORTLAND CEMENT CONCRETE SIDEWALK, 5" W/ TYPE 6 RAMP		
107+86		LT	5.8	8.4	19.0		11.4										CONSTRUCT SIDEWALK RAMP TYPE 6 W/DETECTABLE WARNING SURFACE (CAST IRON)		
113+54	113+88	LT	15.5	19.1		23.0	43.1										RECONSTRUCT SIDEWALK		
113+72		LT	3.7	5.8	19.0		5.7										CONSTRUCT SIDEWALK RAMP TYPE 5 W/DETECTABLE WARNING SURFACE (CAST IRON)		
SHEET 1 SUBTOTAL			181.4	260.2	1063.0	143.0	350.7	54	3	0	0	0	0	24	5	31			
																ITEM DETAIL SHEET 1	SURVEYED BY <u>CLD</u> DATE <u>1/05</u>		
																	DRAWN BY <u>MRS</u> DATE <u>11/05</u>		
																	SQUAD LEADER <u>PTS</u>		
																	DESIGN FILE NO. <u>/pave/05B008/pb008.dgn</u>		
																IPARM FILE <u>pb008id01.i</u> DATE PLOTTED <u>20-MAY-2010 14:3</u>			
																PROJ. NAME: <u>LUDLOW</u>			
																PROJ. NO.: <u>NH 2409015</u>			
																SHEET <u>10</u> OF <u>51</u> SHEETS			

TEMPORARY 4" WHITE LINE, PAINT
 DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 68+08 TO 70+50 SOLID LT & RT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 68+08 TO 70+50 SOLID LT & RT

CHANGING ELEVATION OF SEWER MANHOLES
 STA 68+20 RT (SMH)

REMOVING SIGNS
 AS SHOWN - 2

ERECTING SALVAGED SIGNS
 AS SHOWN - 1

ADJUST ELEVATION OF VALVE BOX
 70+00 LT
 70+25 LT

**VT ROUTE 103
 STA 68+08.00
 (MM 1.289)
 BEGIN PROJECT
 NH 2409(1)S**

NH 2409(1)S
 STA 68+08.00
 (MM 1.289) =
 NH 2326(1)S
 STA 68+60.00
 (MM 1.299)

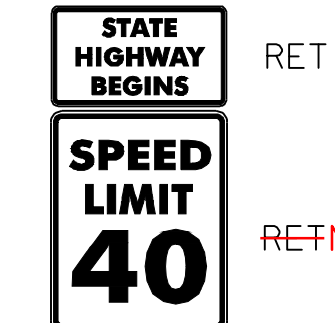
COLD PLANED
 TAPER

0"→2"

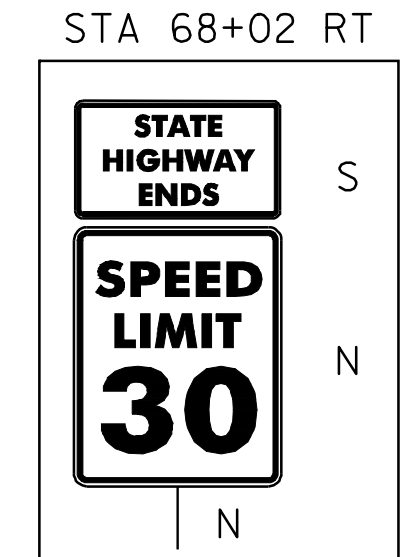
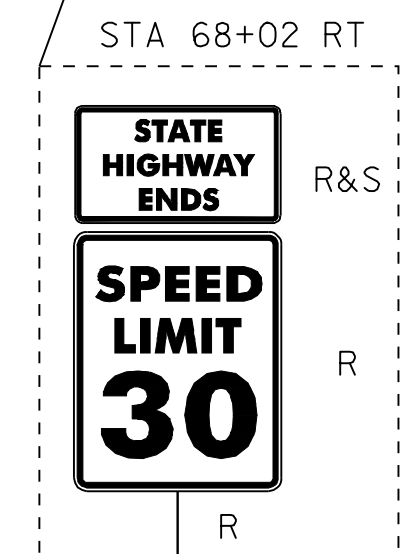
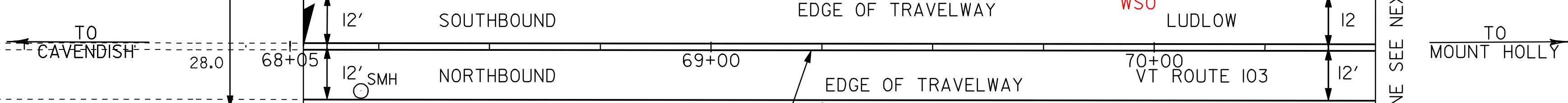
67+00

LUDLOW HEALTH
 CENTER

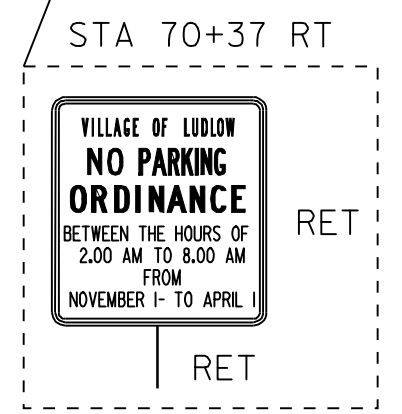
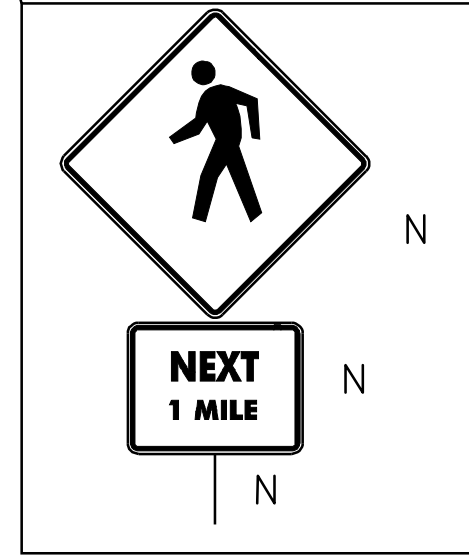
STA 68+35 LT



STA 70+50
 (MM 1.335)



COTA & COTA



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL

NOT TO SCALE

**PAVING
 PROJECT
 LAYOUT #1**

PROJECT:	LUDLOW	PROJECT NO.:	NH 2409(1)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:3
IPARM FILE NAME:	pb008la01.i	SURVEY DATE:	11/20/05
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS	SHEET:	12 OF 51
CLD REF. NO.:	05-0389		

TEMPORARY 4" WHITE LINE, PAINT
 DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 70+50 TO 75+50 SOLID LT & RT

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, TYPE I TAPE
 STA 74+59 RT - "SCHOOL"

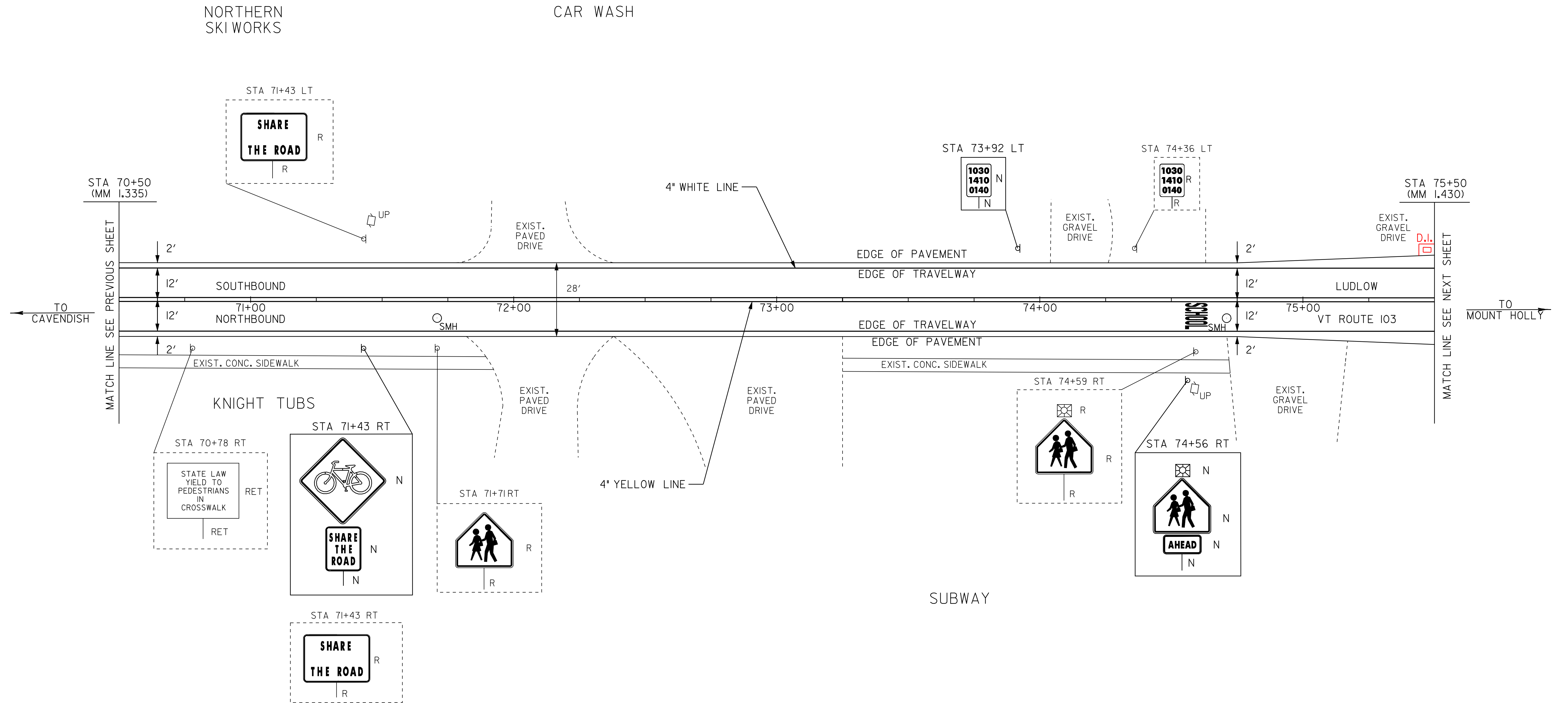
CHANGING ELEVATION OF SEWER MANHOLES
 STA 71+71 RT
 STA 74+71 RT

REMOVING SIGNS
 AS SHOWN - 5

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 70+50 TO 75+50 SOLID LT & RT

FLASHING BEACON, GROUND MOUNTED
 STA 74+56 RT

CHANGE ELEVATION OF CATCH BASIN, D.I.
 75+50 LT



NOT TO SCALE

LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL

**PAVING
 PROJECT
 LAYOUT #2**

PROJECT:	<u>LUDLOW</u>	PROJECT NO.:	<u>NH_2409(I)S</u>
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:3
IPARM FILE NAME:	pb008la02.i	SURVEY DATE:	11/20/05
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS		
CLD_REF_NO.:	05-0389	SHEET:	13 OF 51

TEMPORARY 4" WHITE LINE, PAINT
 STA 75+50 TO 78+70 SOLID LT & RT
 STA 79+30 TO 81+00 SOLID LT & RT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 75+50 TO 78+80 SOLID LT & RT
 STA 79+20 TO 81+00 SOLID LT & RT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 75+50 TO 78+70 SOLID LT & RT
 STA 79+30 TO 81+00 SOLID LT & RT

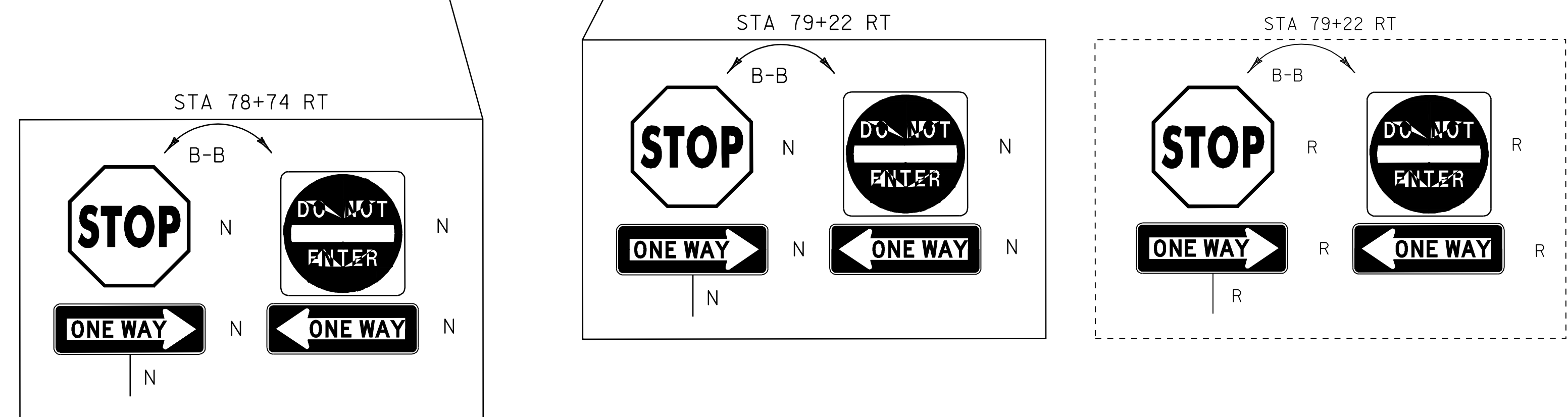
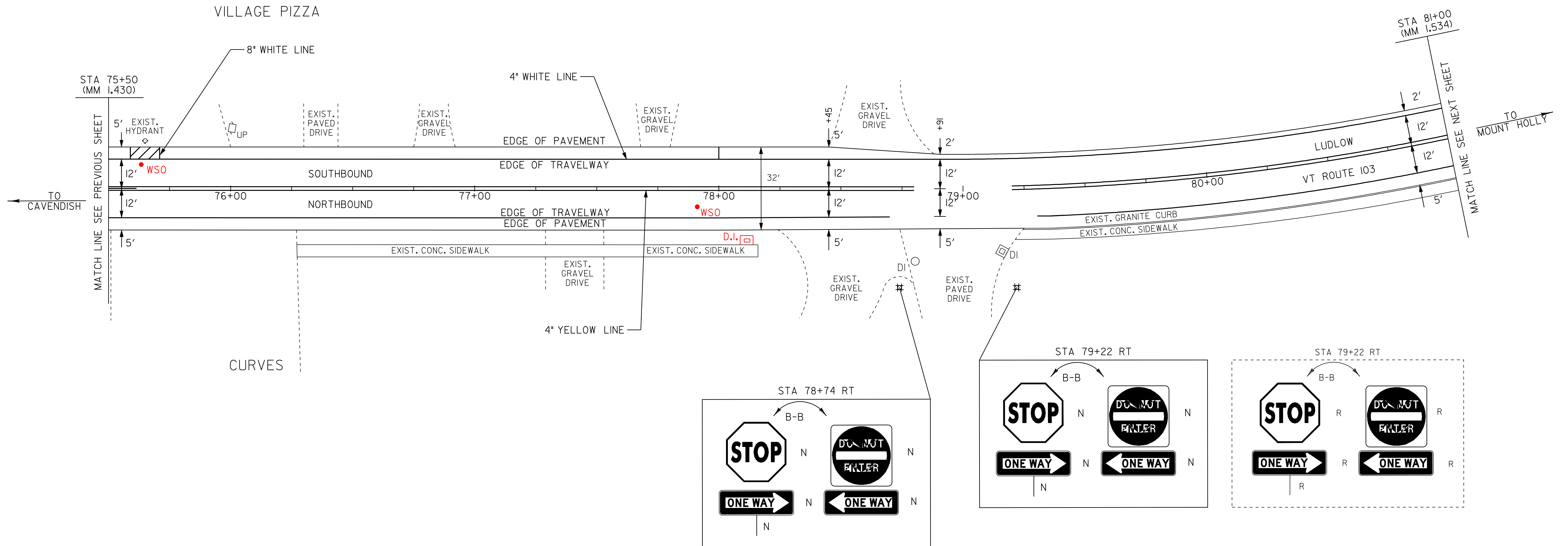
REMOVING SIGNS
 AS SHOWN - 4

DURABLE 8" WHITE LINE, THERMOPLASTIC
 STA 75+59 TO 75+71 SOLID LT SHOULDER HATCHING

ADJUST ELEVATION OF VALVE BOX
 75+65 LT
 77+90 RT

TEMPORARY 8" WHITE LINE, PAINT
 STA 75+59 TO 75+71 SOLID LT SHOULDER HATCHING

CHANGE ELEVATION OF D.I.
 78+23 RT



- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

PAVING PROJECT LAYOUT #3

PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:3
IPARM FILE NAME:	pb008la03.1	SURVEY DATE:	11/205
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS		
CLD_REF_NO.:	05-0389	SHEET:	14 OF 51

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
 STA 81+00 TO 81+60 SOLID LT & RT
 STA 82+00 TO 83+10 SOLID RT
 STA 81+68 TO 86+00 SOLID LT
 STA 83+45 TO 86+00 SOLID RT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 81+00 TO 81+60 SOLID LT & RT
 STA 82+00 TO 83+10 SOLID RT
 STA 81+68 TO 86+00 SOLID LT
 STA 83+45 TO 86+00 SOLID RT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 81+00 TO 81+60 SOLID LT & RT
 STA 82+00 TO 83+05 SOLID LT & RT
 STA 83+25 DOUBLE SOLID RT (TH 320)
 STA 83+45 TO 86+00 SOLID LT & RT

DURABLE 8" WHITE LINE, THERMOPLASTIC
 STA 83+57 TO 83+69 SOLID LT SHOULDER HATCHING

TEMPORARY 8" WHITE LINE, PAINT
 STA 83+57 TO 83+69 SOLID LT SHOULDER HATCHING

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE ITAPE
 STA 83+30 RT (TH 320)

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, TYPE ITAPE
 STA 83+30 RT - "STOP" (TH 320)
 STA 85+22 LT - "SCHOOL"

TEMPORARY CROSSWALK MARKING, PAINT
 STA 81+63 LT TO RT
 STA 83+12 TO 83+41 RT

SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 81+63 LT TO RT
 STA 83+12 TO 83+41 RT

CONSTRUCT SIDEWALK RAMP W/DETECTABLE
 WARNING SURFACE (CAST IRON)
 STA 81+63 LT (TYPE 6)
 STA 81+63 RT (TYPE 6)
 STA 83+12 RT (TYPE 1)
 STA 83+41 RT (TYPE 1)

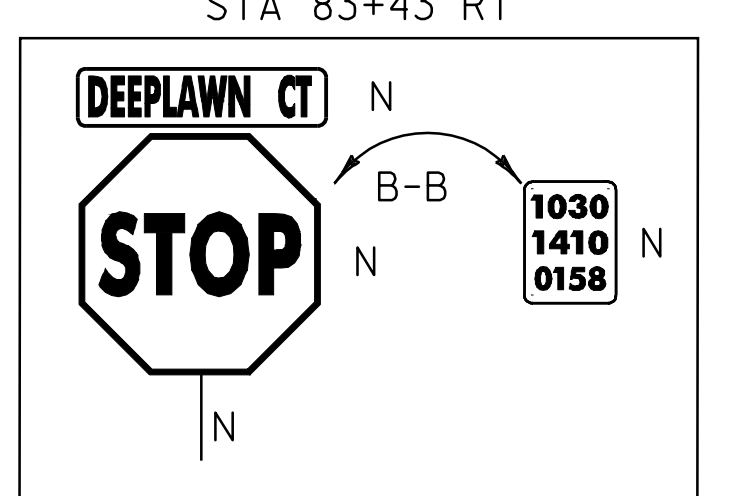
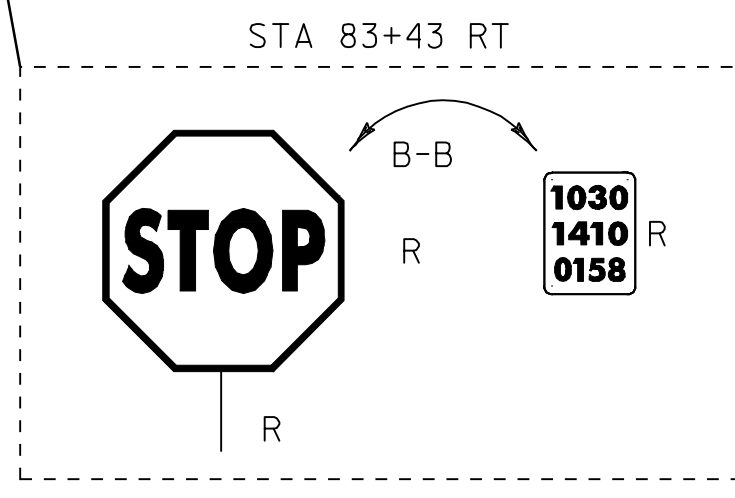
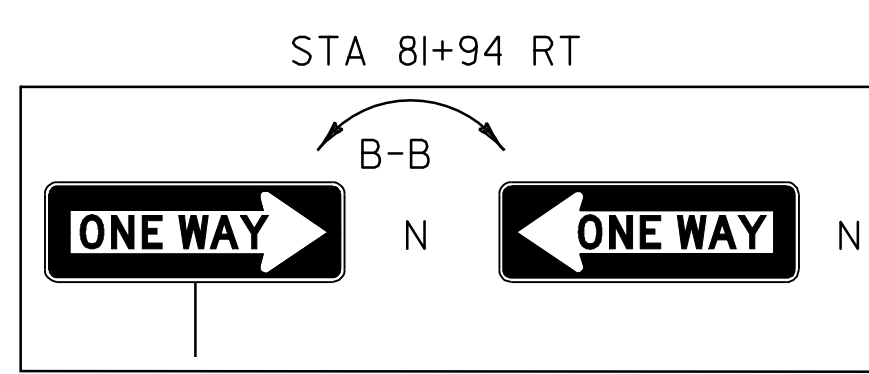
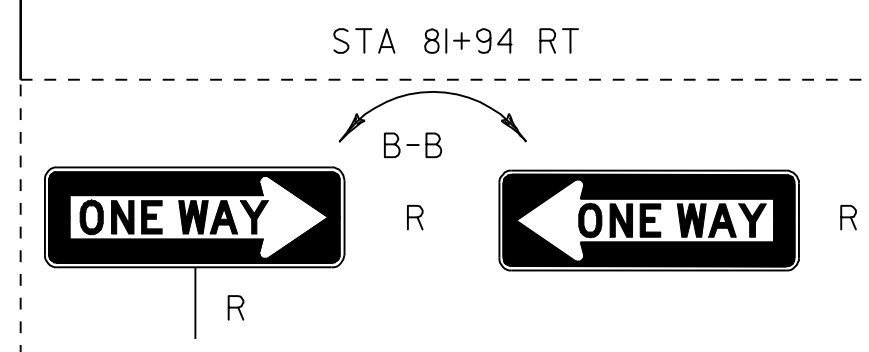
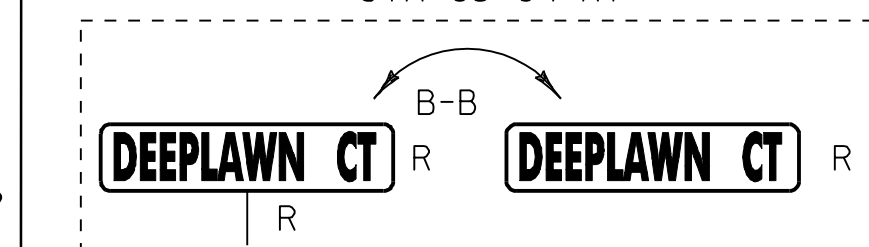
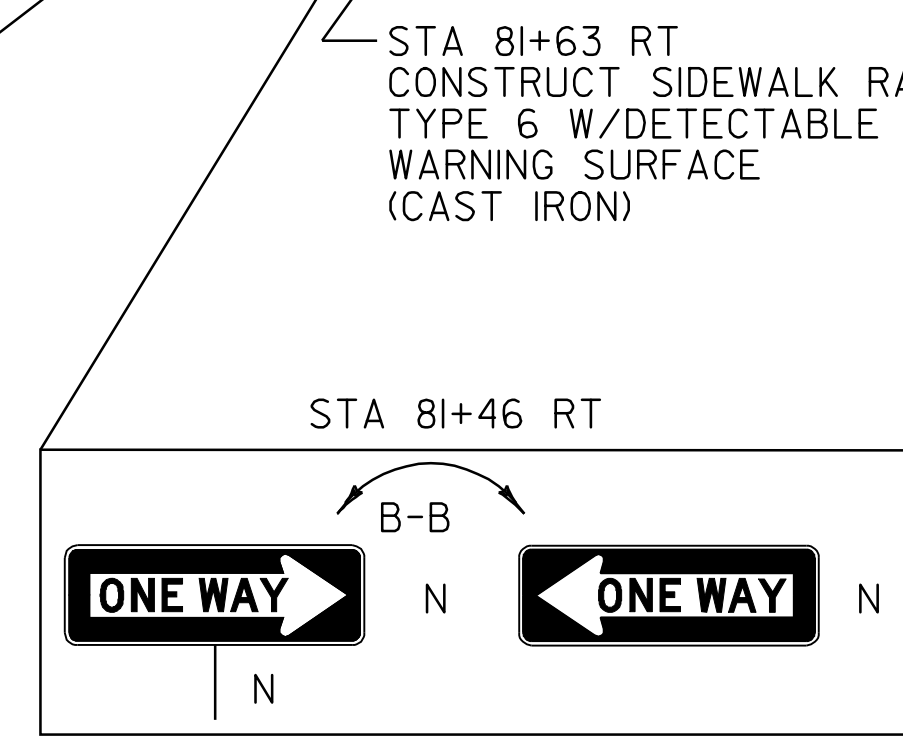
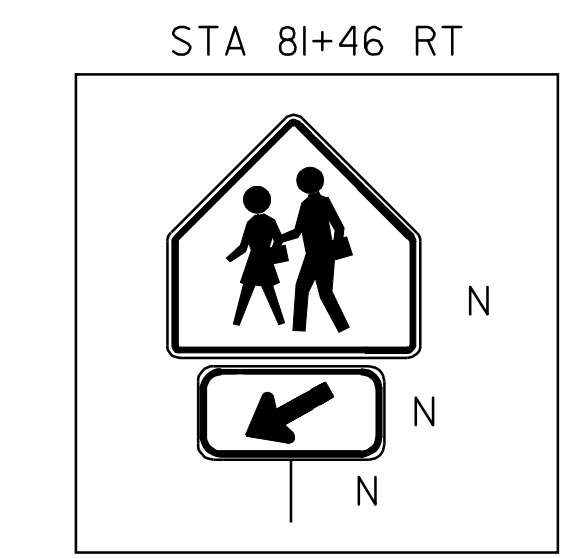
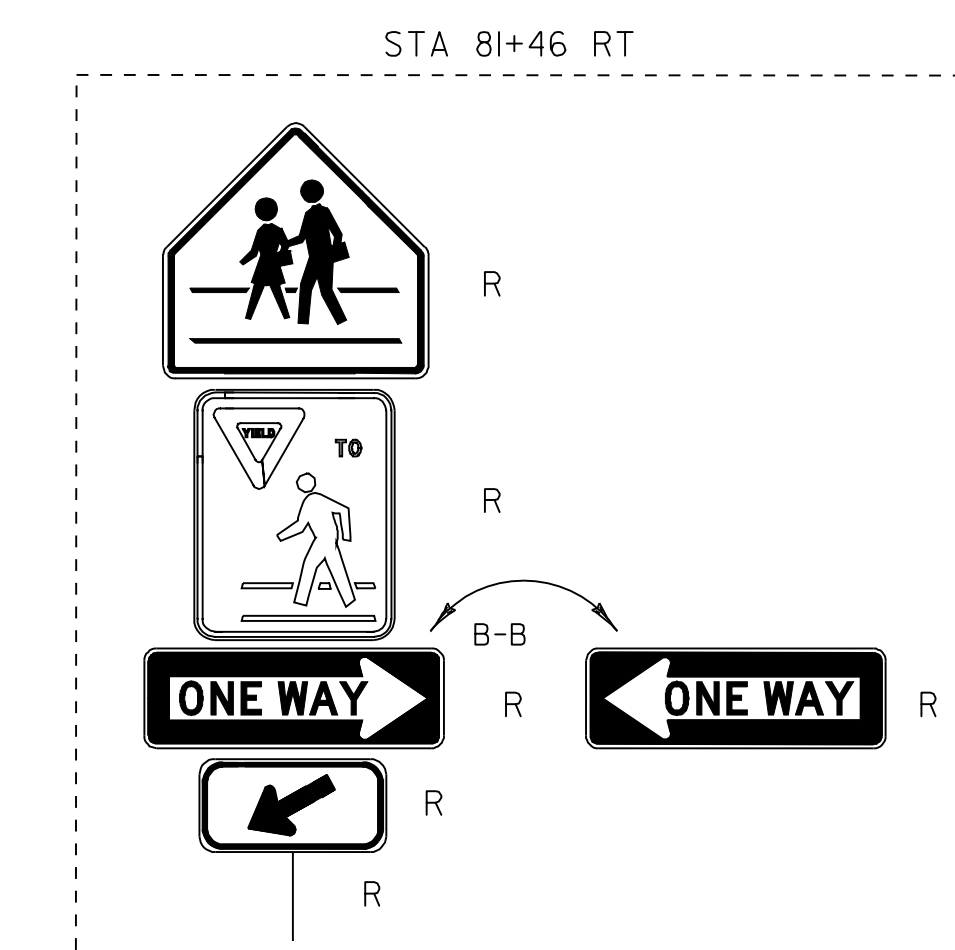
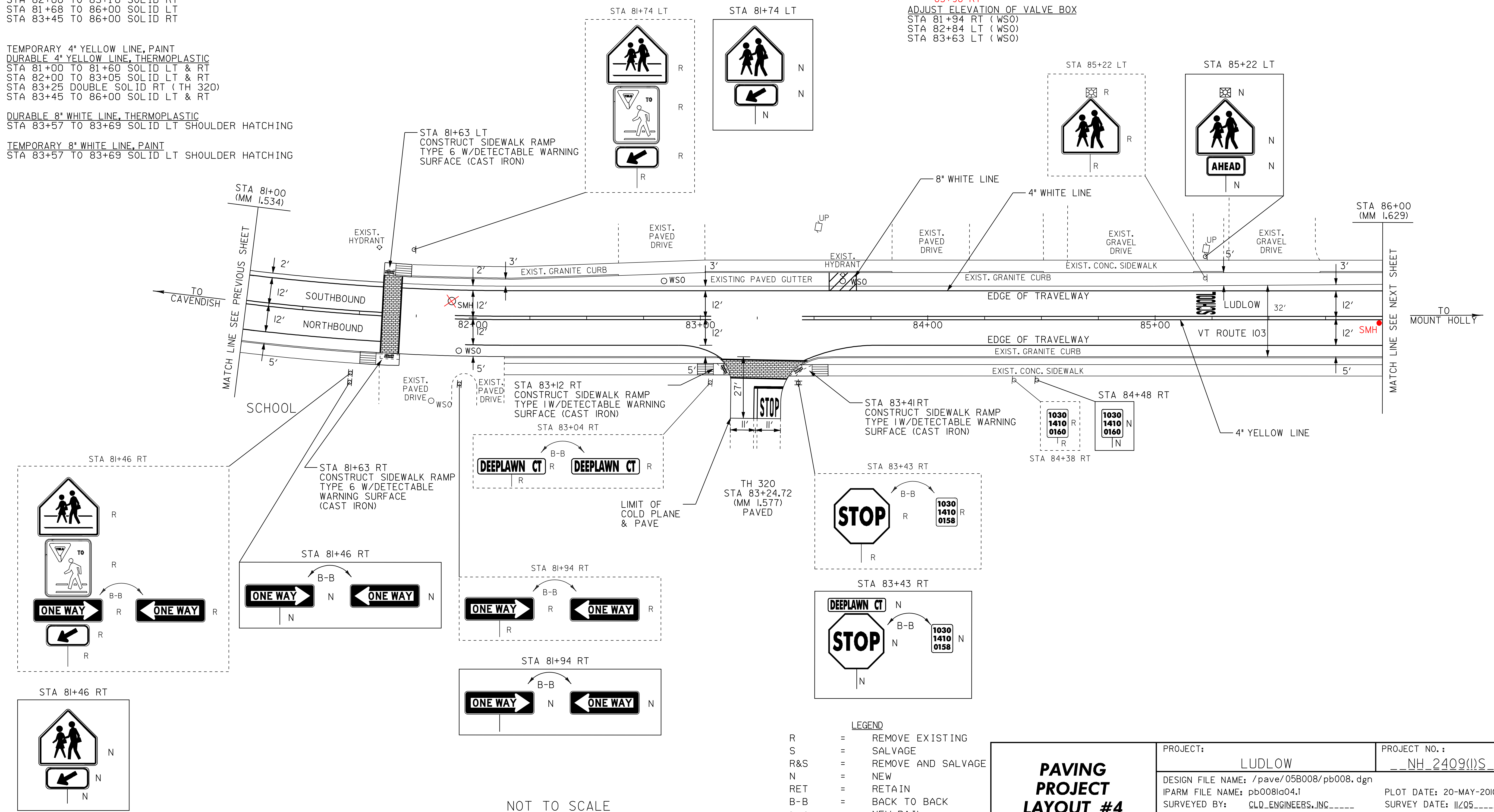
CHANGING ELEVATION SEWER MANHOLES
 STA 81+90 LT (SMH)
 STA 85+98 RT

ADJUST ELEVATION OF VALVE BOX
 STA 81+94 RT (WSO)
 STA 82+84 LT (WSO)
 STA 83+63 LT (WSO)

THINNING AND TRIMMING FOR SIGNS
 STA 81+46 RT

FLASHING BEACON, GROUND MOUNTED
 STA 85+22 LT

REMOVING SIGNS
 AS SHOWN - 16



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

NOT TO SCALE

<h3>PAVING PROJECT LAYOUT #4</h3>	PROJECT: LUDLOW	PROJECT NO.: NH_2409(I)S
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:
	IPARM FILE NAME: pb008id04.1	SURVEY DATE: 11/205
	SQUAD LEADER: PIS	DRAWN BY: MRS
CLD_REF_NO.: 05-0389	SHEET: 15 OF 51	

TEMPORARY 4" WHITE LINE, PAINT
 STA 86+00 TO 88+70 SOLID LT & RT
 STA 88+73 LT (TH 324)
 STA 88+78 TO 91+50 SOLID RT
 STA 88+98 LT (TH 324)
 STA 89+08 TO 91+50 SOLID LT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 86+00 TO 88+70 SOLID LT & RT
 STA 88+73 LT (TH 324)
 STA 88+78 TO 91+50 SOLID RT
 STA 88+98 LT (TH 324)
 STA 89+08 TO 91+50 SOLID LT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 86+00 TO 88+70 SOLID LT & RT
 STA 88+88 DOUBLE SOLID LT (TH 324)
 STA 89+08 TO 91+50 SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE I TAPE
 STA 88+88 LT (TH 324)

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, TYPE I TAPE
 STA 88+77 LT - "STOP" (TH 324)

DURABLE 8" WHITE LINE, THERMOPLASTIC
 STA 88+32 TO 88+70 SOLID LT SHOULDER HATCHING

DURABLE 8" WHITE LINE, PAINT
 STA 88+32 TO 88+70 SOLID LT SHOULDER HATCHING

TEMPORARY CROSSWALK MARKING, PAINT
 STA 88+72 LT TO RT
 STA 88+72 TO 89+02 LT

SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 88+72 LT TO RT
 STA 88+72 TO 89+02 LT

CONSTRUCT SIDEWALK RAMP W/DETECTABLE
 WARNING SURFACE (CAST IRON)
 STA 88+72 RT (TYPE 2)
 STA 88+72 LT (TYPE 6)
 STA 89+02 LT (TYPE 6)

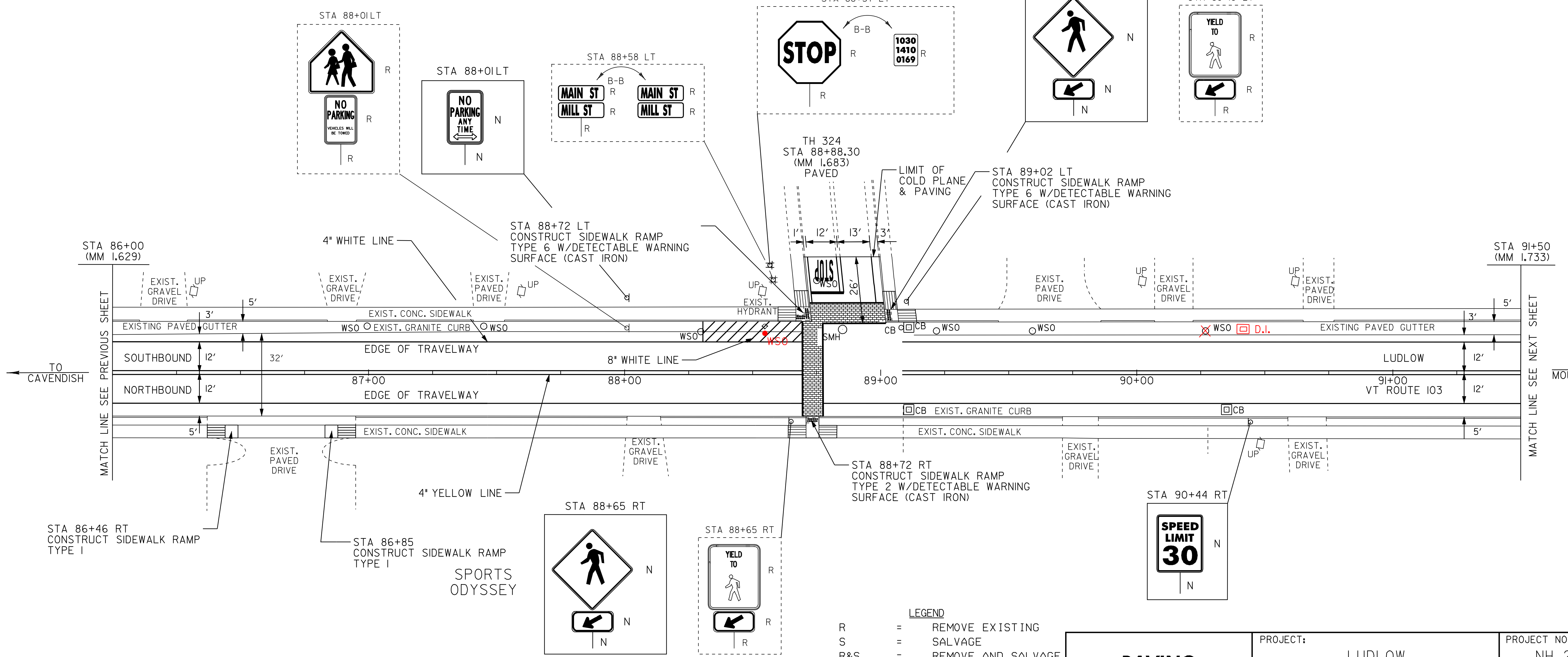
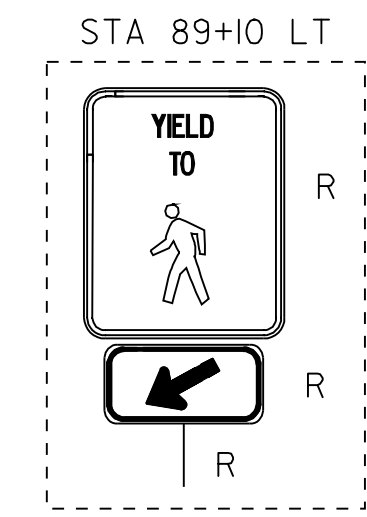
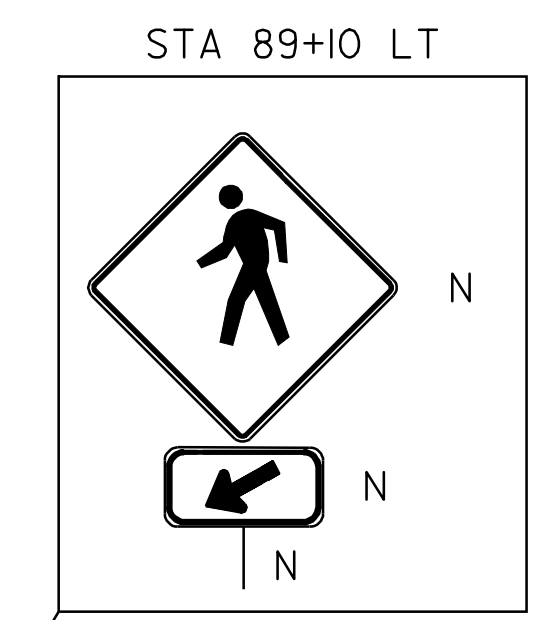
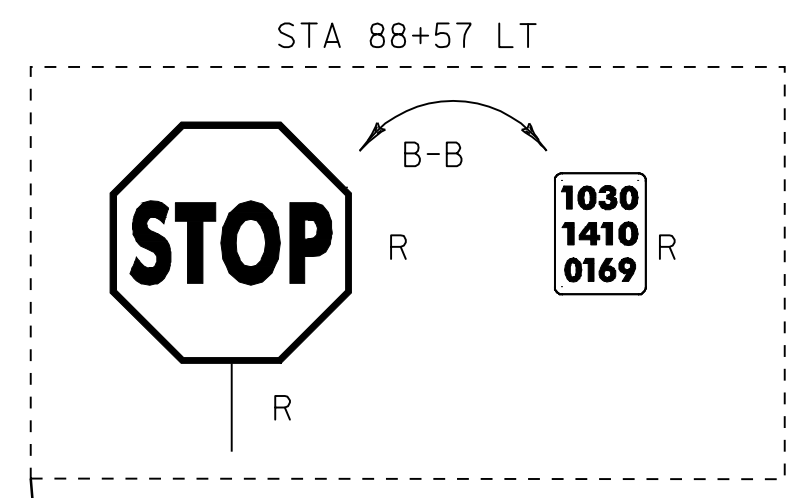
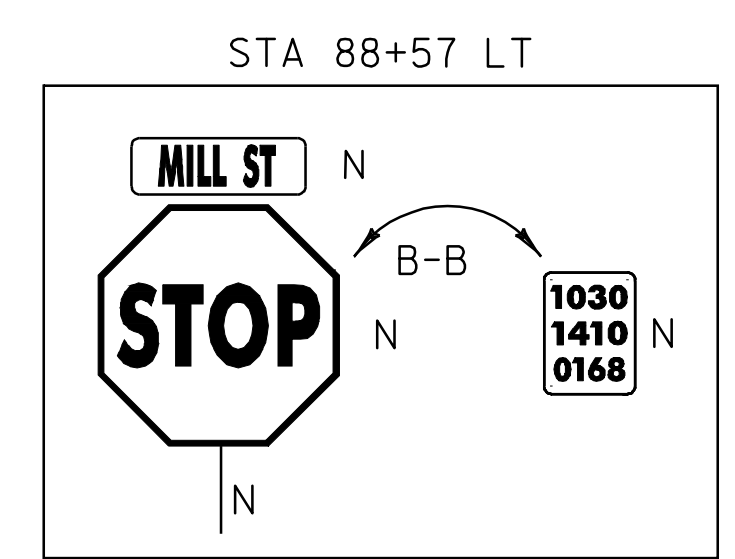
CONSTRUCT SIDEWALK RAMP
 STA 86+46 RT (TYPE 1)
 STA 86+85 RT (TYPE 1)

REPAIRED BY
 TOWN (I)
 NEW CATCH BASIN

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS OR MANHOLES
 STA 89+08 LT (CB)
 STA 89+11 LT (CB)
 STA 89+11 RT (CB)
 STA 90+35 RT (CB)
 90+44 LT NEW D.I. BY TOWN
 CHANGING ELEVATION SEWER MANHOLES
 STA 88+85 LT (SMH)

REMOVING SIGNS
 AS SHOWN - 12

ADJUST ELEVATION OF VALVE BOX
 STA 86+99 LT (WSO)
 STA 87+45 LT (WSO)
 STA 88+30 LT (WSO)
 STA 88+75 LT (WSO) (TH 324)
 STA 89+22 LT (WSO)
 STA 89+59 LT (WSO)
 STA 90+27 LT (WSO)
 88+55 LT (WSO)



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

PAVING PROJECT LAYOUT #5

PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010
IPARM FILE NAME:	pb008la05.i	SURVEY DATE:	11/05
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS	SHEET:	16 OF 51
CLD_REF_NO.:	05-0389		

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
 STA 91+50 TO 95+50 SOLID LT
 STA 91+50 TO 94+74 SOLID RT
 STA 95+12 TO 95+50 SOLID RT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 91+50 TO 95+50 SOLID LT
 STA 91+50 TO 94+74 SOLID LT & RT
 STA 95+12 TO 95+50 SOLID RT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 91+50 TO 94+74 SOLID LT & RT
 STA 94+94 DOUBLE SOLID RT (TH 316)
 STA 95+14 TO 95+50 SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE I TAPE
 STA 94+94 RT (TH 316)

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, TYPE I TAPE
 STA 95+01 RT - " STOP (TH 316)

TEMPORARY CROSSWALK MARKING, PAINT
 STA 94+79 TO 95+09 RT

SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 94+79 TO 95+09 RT

DURABLE 8" WHITE LINE, THERMOPLASTIC
 STA 94+59 TO 94+71 SOLID LT SHOULDER HATCHING

TEMPORARY 8" WHITE LINE, PAINT
 STA 94+59 TO 94+71 SOLID LT SHOULDER HATCHING

CONSTRUCT SIDEWALK RAMP W/DETECTABLE WARNING
 SURFACE (CAST IRON)
 STA 94+79 RT (TYPE 1)
 STA 95+09 RT (TYPE 1)

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES
 STA ~~94+73 RT (DI)~~
 94+64 LT

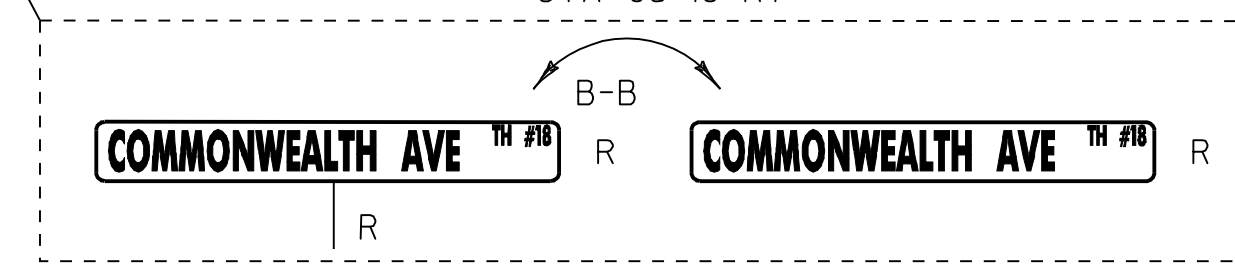
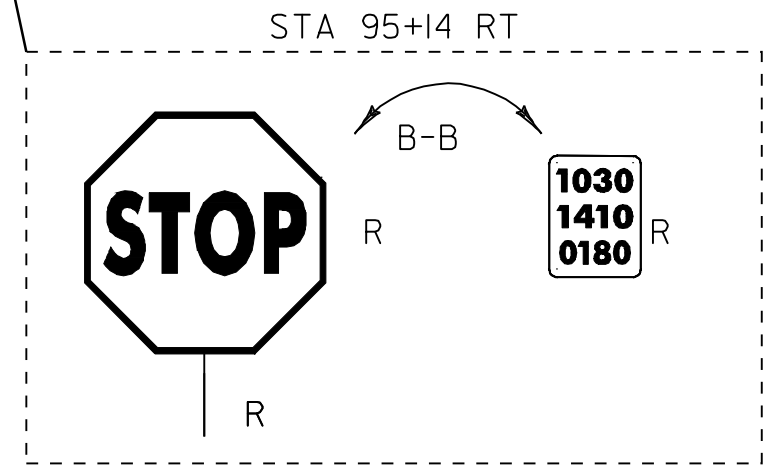
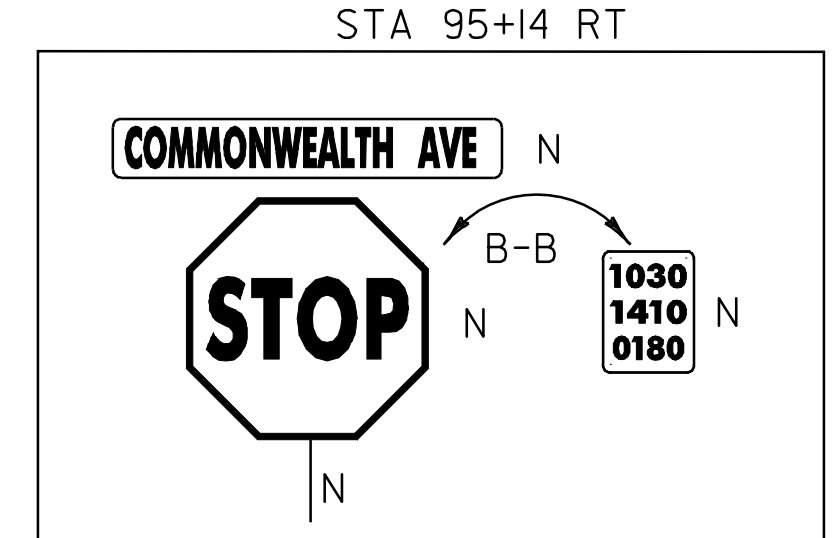
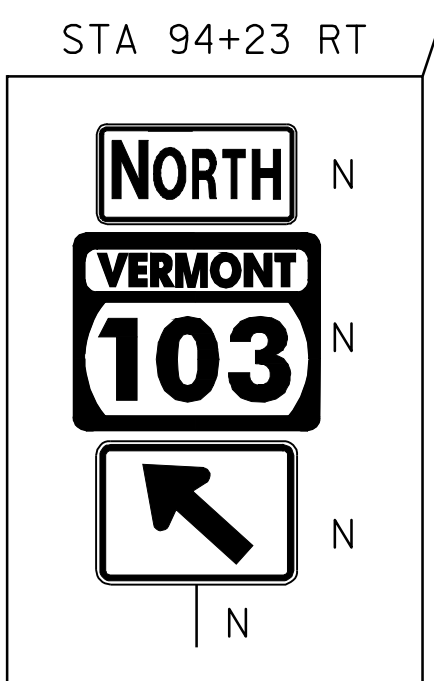
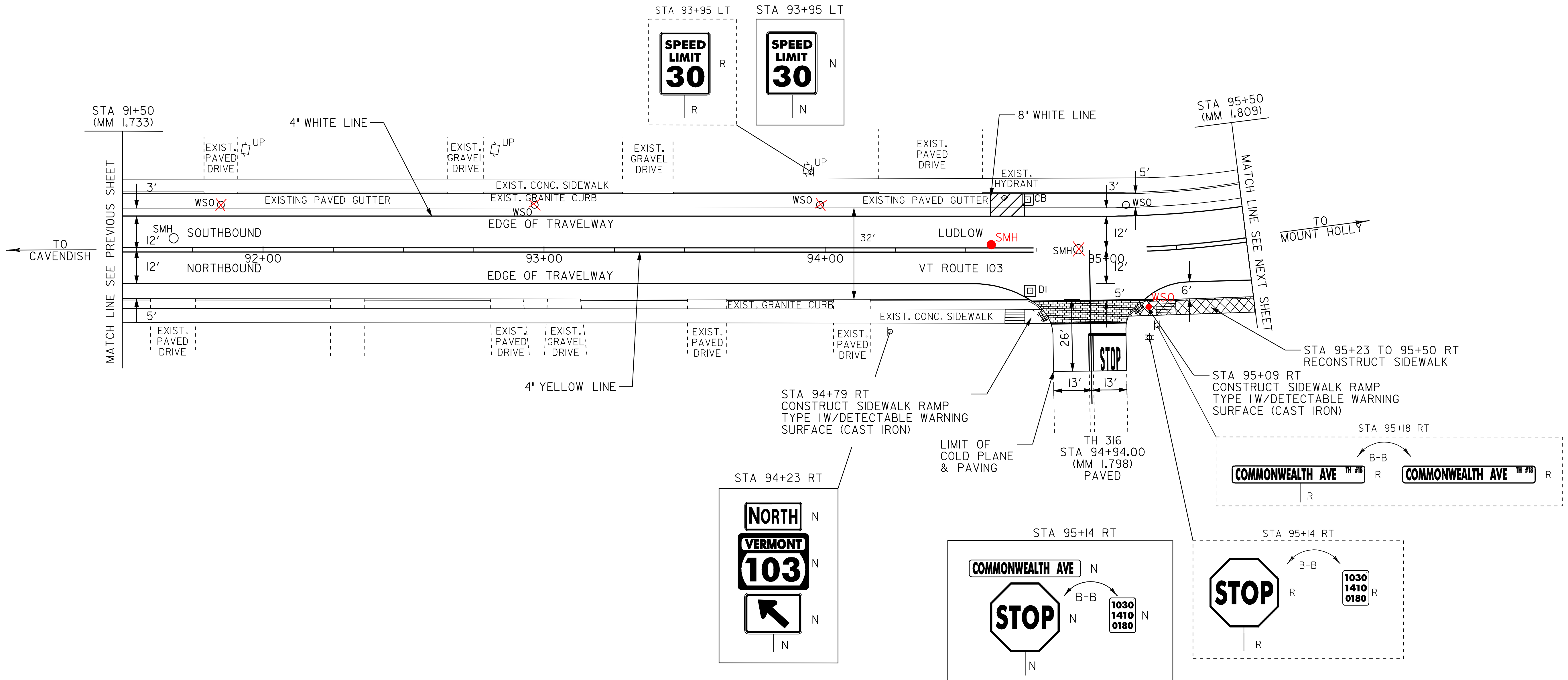
REHAB DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I
 STA ~~94+64 LT (CB)~~
 94+73 RT (DI)

CHANGING ELEVATION OF SEWER MANHOLES
 STA 91+68 LT (SMH)
 STA ~~94+90 CL (SMH)~~
 94+64

ADJUST ELEVATION OF VALVE BOX
 STA ~~91+85 LT (WSO)~~
 STA ~~92+97 LT (WSO)~~
 STA ~~93+98 LT (WSO)~~
 STA 95+07 LT (WSO)
 95+07 RT

EXCAVATION OF SURFACES AND PAVEMENTS
 STA 95+07 TO 95+50 RT

REMOVING SIGNS
 AS SHOWN - 5



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - - - = EXISTING RAIL

PAVING PROJECT LAYOUT #6

PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:3
IPARM FILE NAME:	pb008ia06.i	SURVEY DATE:	11/205
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS	SHEET:	17 OF 51
CLD_REF_NO.:	05-Q389		

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
 STA 95+50 TO 97+47 SOLID LT
 STA 95+50 TO 97+02 SOLID RT
 STA 97+12 TO 98+58 SOLID RT
 STA 97+27 TO 97+47 SOLID LT NO PARKING
 STA 97+65 TO 97+85 SOLID LT NO PARKING
 STA 97+65 TO 98+58 SOLID LT
 STA 98+66 TO 101+50 SOLID LT
 STA 98+66 TO 99+78 SOLID RT
 STA 100+04 TO 100+44 SOLID RT (TH 314)
 STA 100+61 TO 101+50 SOLID RT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 95+50 TO 97+47 SOLID LT
 STA 95+50 TO 97+02 SOLID RT
 STA 97+12 TO 98+58 SOLID RT
 STA 97+27 TO 97+47 SOLID LT NO PARKING
 STA 97+65 TO 98+58 SOLID LT
 STA 97+65 TO 97+85 SOLID LT NO PARKING
 STA 98+66 TO 101+50 SOLID LT
 STA 98+66 TO 99+78 SOLID RT
 STA 100+04 TO 100+44 SOLID RT (TH 314)
 STA 100+61 TO 101+50 SOLID RT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 95+50 TO 96+24 SOLID LT & RT
 STA 96+57 TO 97+06 DOUBLE SOLID RT (SA 4)
 STA 96+64 TO 97+36 SOLID LT & RT
 STA 97+76 TO 98+58 SOLID LT & RT
 STA 98+66 TO 99+95 SOLID LT & RT
 STA 99+88 TO 100+08 DOUBLE SOLID RT (TH 314)
 STA 100+35 TO 101+50 SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE ITAPE
 STA 96+62 RT (SA 4)
 STA 100+08 RT (TH 314)

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, TYPE ITAPE
 STA 96+70 RT - "STOP"
 STA 97+94 LT - DISABLED MARKING
 STA 100+17 RT - "STOP"

TEMPORARY CROSSWALK MARKING, PAINT
 STA 97+47 TO 97+65 LT
 STA 98+62 LT TO RT
 STA 99+81 TO 100+68 RT

SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 97+47 TO 97+65 LT
 STA 98+62 LT TO RT
 STA 99+81 TO 100+68 RT

CONSTRUCT SIDEWALK RAMP W/DETECTABLE
 WARNING SURFACE (CAST IRON)
 STA 97+47 LT (TYPE 1)
 STA 97+65 LT (TYPE 1)
 STA 98+62 LT (TYPE 6)
 STA 98+62 RT (TYPE 2)
 STA 99+81 RT (TYPE 1)
 STA 100+68 RT (TYPE 6)

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS OR MANHOLES
 STA 99+75 RT (CB)
 STA 100+13 LT (CB)

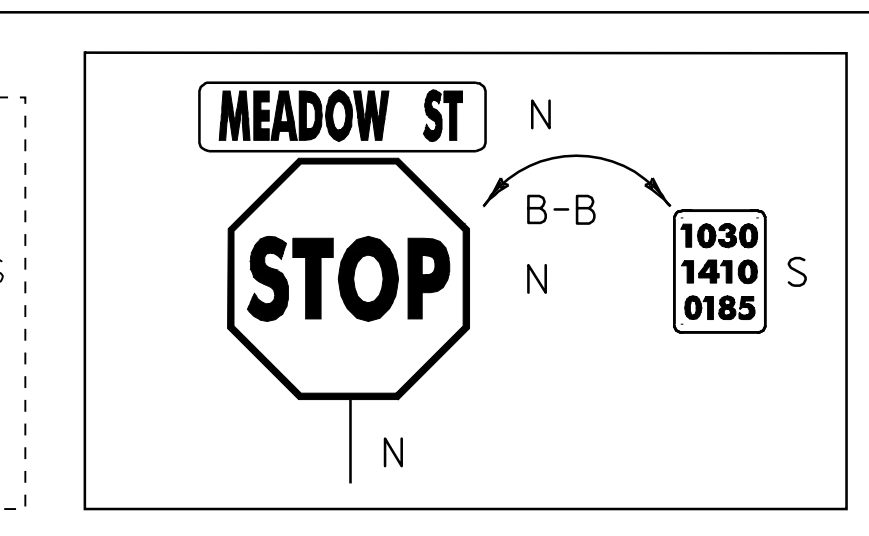
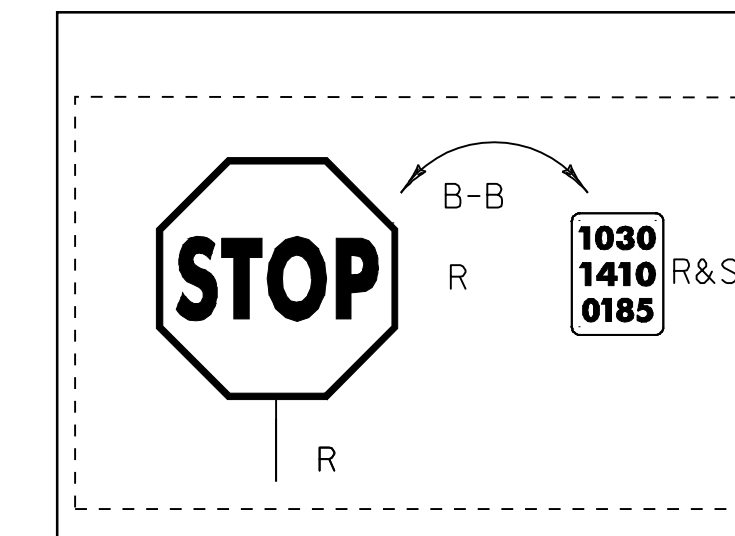
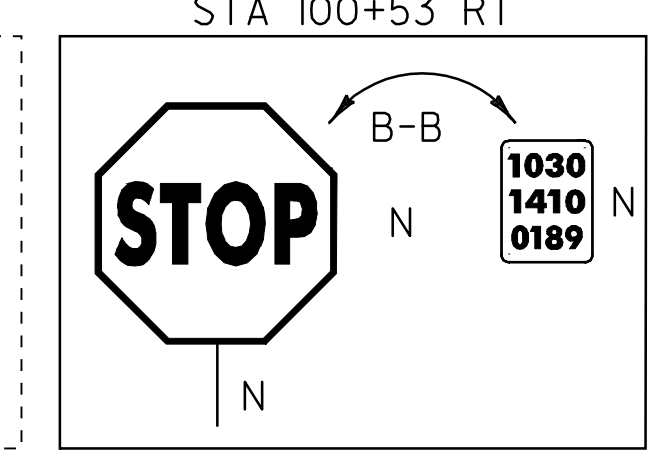
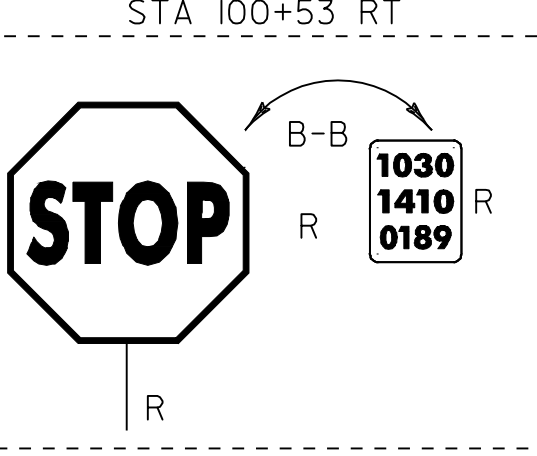
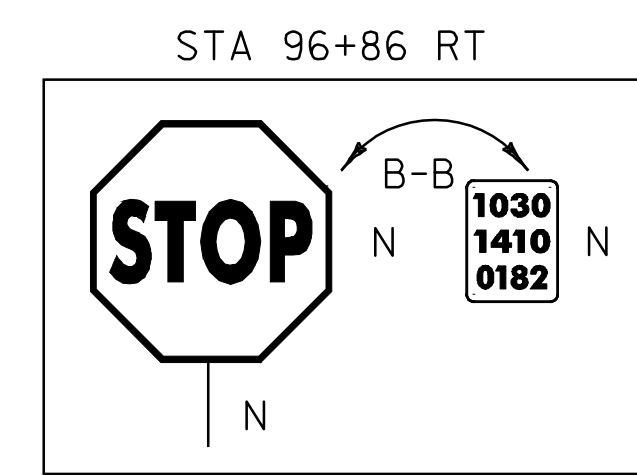
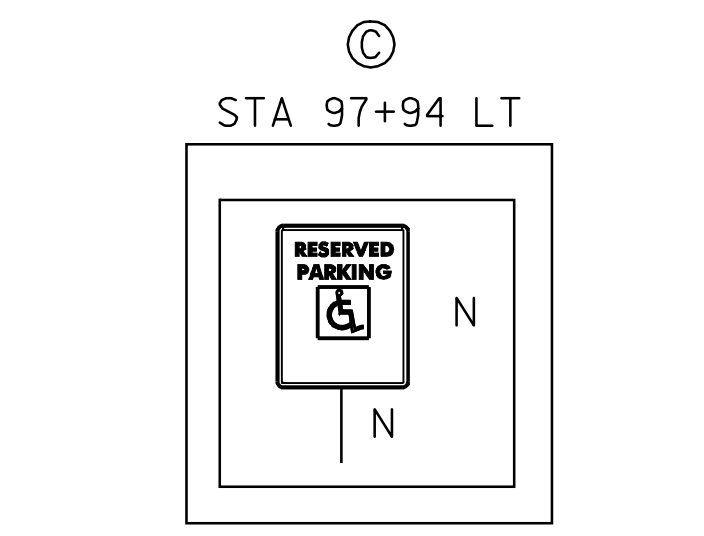
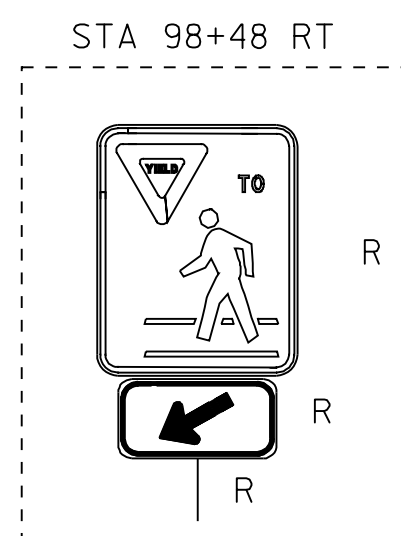
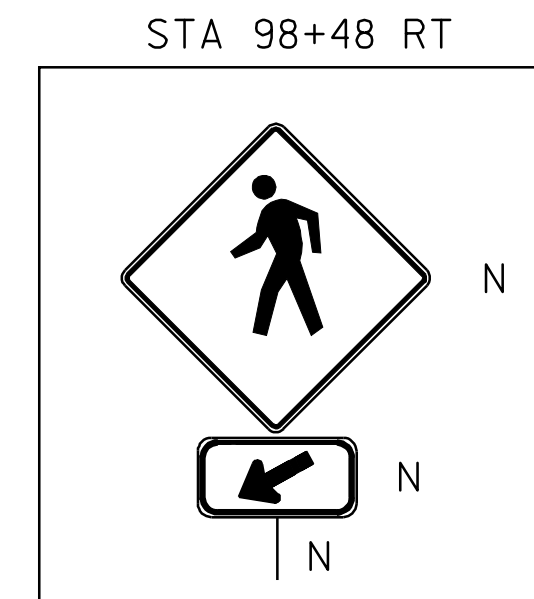
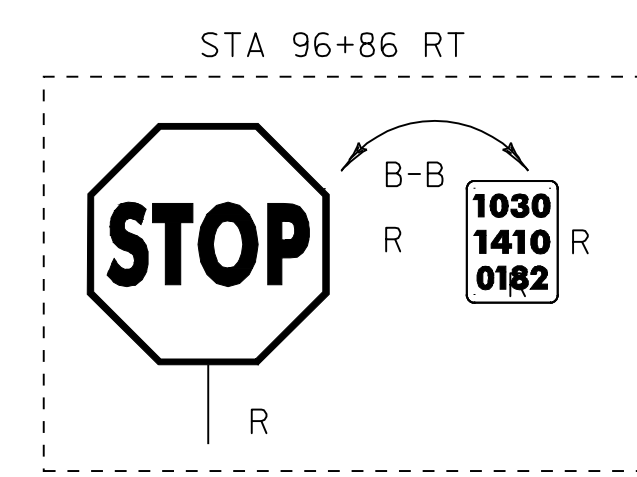
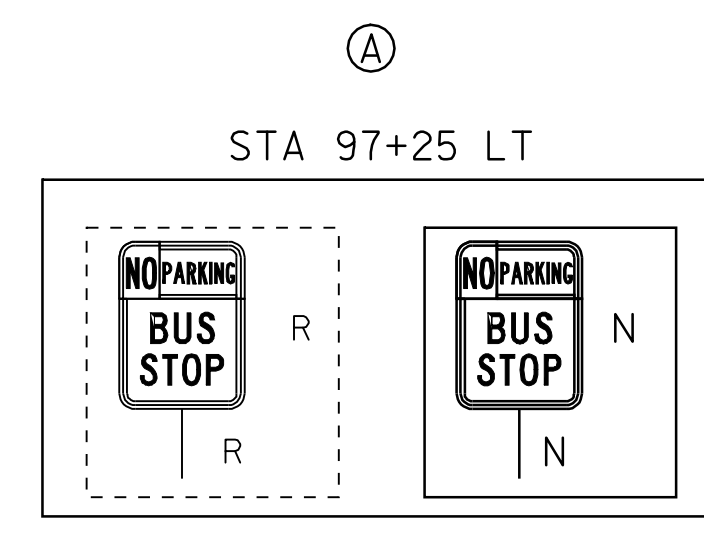
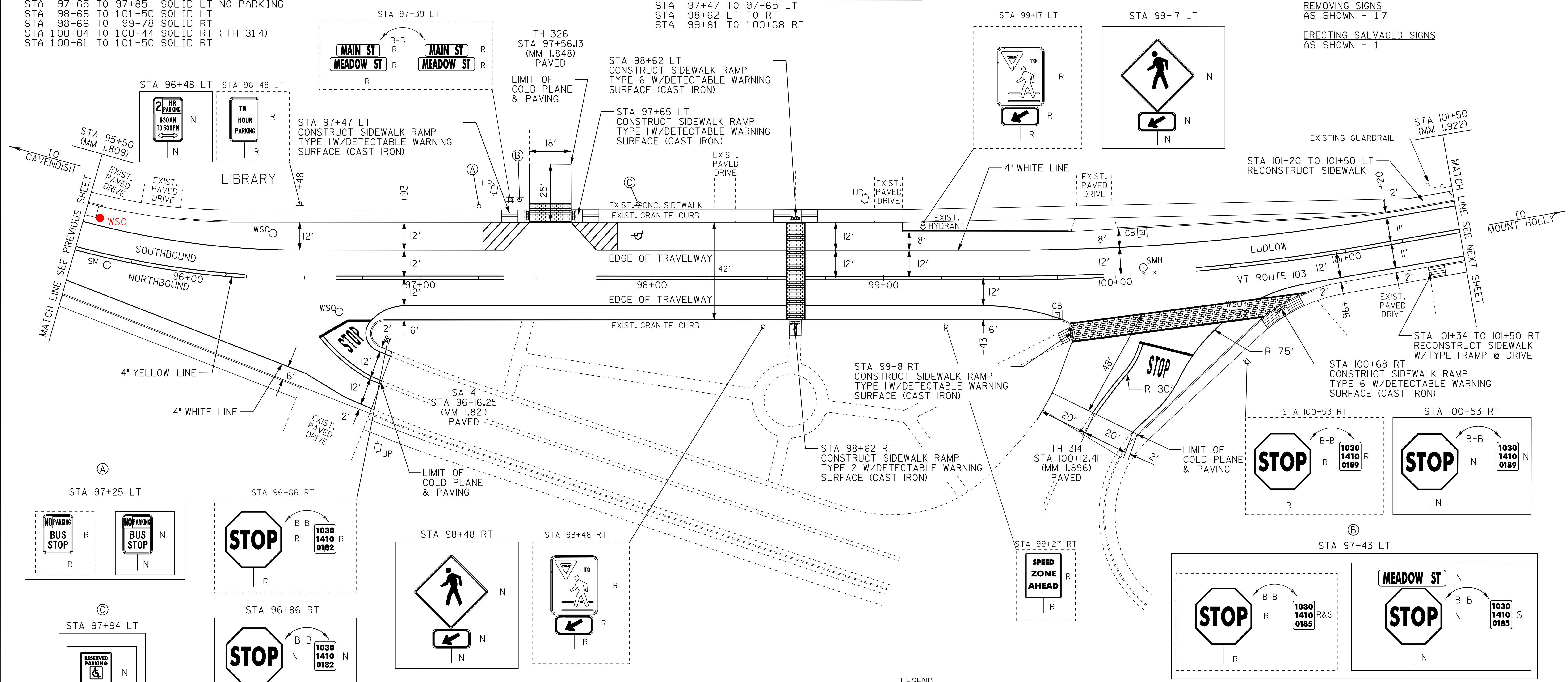
CHANGING ELEVATION OF SEWER MANHOLES
 STA 95+64 RT
 STA 100+13 LT

ADJUST ELEVATION OF VALVE BOX
 STA 96+36 LT (WSO)
 STA 96+58 RT (WSO)
 STA 100+53 RT (WSO)
 95+54 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
 STA 101+20 TO 101+50 LT
 STA 101+41 TO 101+50 RT

REMOVING SIGNS
 AS SHOWN - 17

ERECTING SALVAGED SIGNS
 AS SHOWN - 1



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - - - = EXISTING RAIL

PAVING PROJECT LAYOUT #7

PROJECT:	LUDLOW	PROJECT NO.:	NH 2409(I)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn		
IPARM FILE NAME:	pb008la07.1		
SURVEYED BY:	CLD_ENGINEERS, INC	PLOT DATE:	20-MAY-2010 14:3
SQUAD LEADER:	PIS	SURVEY DATE:	11/2005
CLD REF. NO.:	05-0389	DRAWN BY:	MRS
		SHEET:	18 OF 51

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
 STA 101+50 TO 102+00 SOLID LT
 STA 101+50 TO 102+00 SOLID RT
 STA 104+25 TO 104+57 SOLID LT PARKING
 STA 104+57 TO 104+72 SOLID LT NO PARKING
 STA 104+85 TO 104+95 SOLID LT NO PARKING
 STA 104+86 TO 104+98 SOLID RT NO PARKING
 STA 104+95 TO 105+58 SOLID LT PARKING
 STA 104+98 TO 105+61 SOLID RT PARKING
 STA 105+58 TO 105+70 SOLID LT NO PARKING
 STA 105+61 TO 105+72 SOLID RT NO PARKING
 STA 105+76 TO 105+89 SOLID LT NO PARKING
 STA 105+89 TO 106+31 SOLID LT PARKING
 STA 105+93 TO 106+02 SOLID RT NO PARKING
 STA 106+02 TO 106+44 SOLID RT PARKING
 STA 106+31 TO 106+44 SOLID LT NO PARKING
 STA 106+44 TO 106+52 SOLID RT NO PARKING
 STA 106+64 TO 106+81 SOLID LT NO PARKING
 STA 106+67 TO 106+82 SOLID RT NO PARKING
 STA 106+81 TO 107+00 SOLID LT PARKING
 STA 106+82 TO 107+00 SOLID RT PARKING

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 104+25 TO 104+57 SOLID LT PARKING
 STA 104+57 TO 104+72 SOLID LT NO PARKING
 STA 104+85 TO 104+95 SOLID LT NO PARKING
 STA 104+86 TO 104+98 SOLID RT NO PARKING
 STA 104+95 TO 105+58 SOLID LT PARKING
 STA 104+98 TO 105+61 SOLID RT PARKING
 STA 105+58 TO 105+70 SOLID LT NO PARKING
 STA 105+61 TO 105+72 SOLID RT NO PARKING
 STA 105+76 TO 105+89 SOLID LT NO PARKING
 STA 105+89 TO 106+31 SOLID LT PARKING
 STA 105+93 TO 106+02 SOLID RT NO PARKING
 STA 106+02 TO 106+44 SOLID RT PARKING
 STA 106+31 TO 106+44 SOLID LT NO PARKING
 STA 106+44 TO 106+52 SOLID RT NO PARKING
 STA 106+64 TO 106+81 SOLID LT PARKING
 STA 106+67 TO 106+82 SOLID RT NO PARKING
 STA 106+81 TO 107+00 SOLID LT PARKING
 STA 106+82 TO 107+00 SOLID RT PARKING

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 101+50 TO 102+00 SOLID LT & RT
 STA 104+25 TO 107+00 SOLID LT & RT

 CHANGE ELEVATION OF SEWER MANHOLES
 STA 106+20 LT

 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
 STA 101+50 TO 101+52 LT
 STA 101+50 TO 101+78 RT

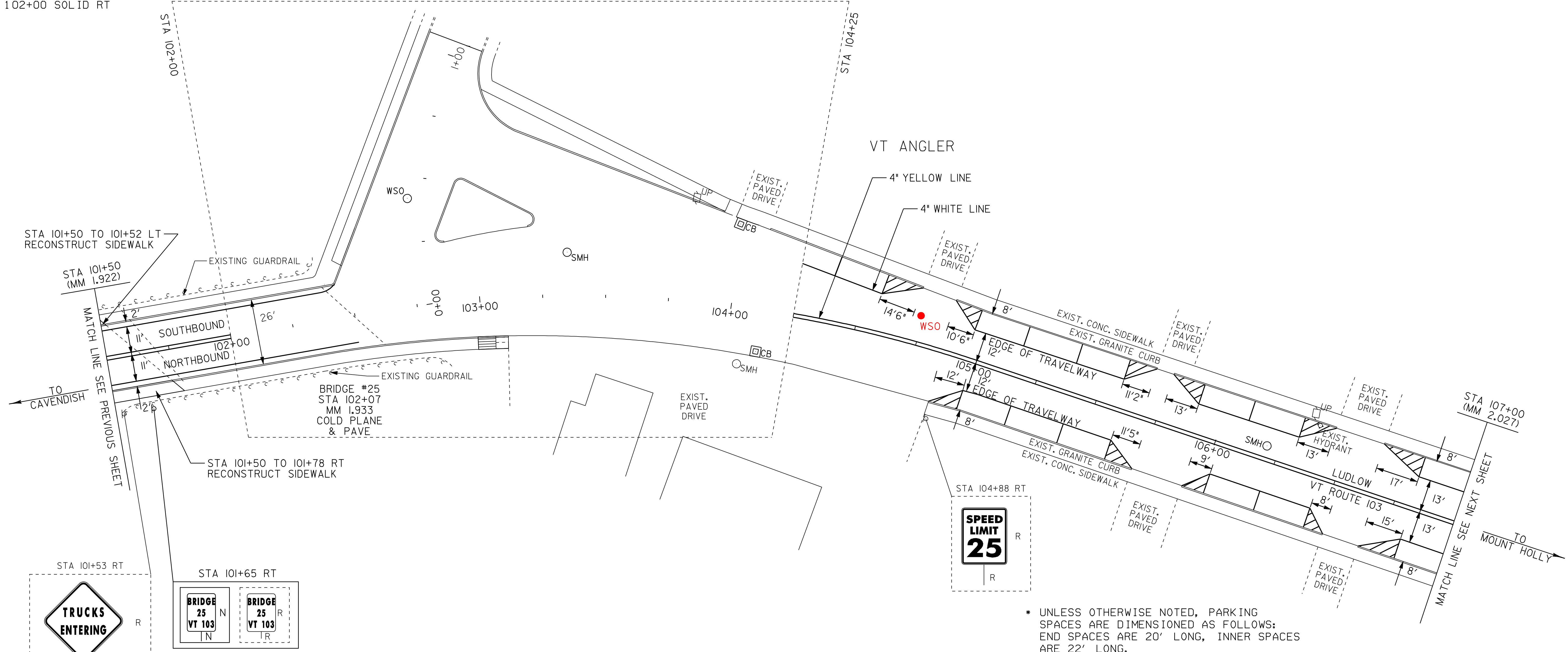
 REMOVING SIGNS
 AS SHOWN - 3

 ADJUST ELEVATION OF VALVE BOX
 I04+70 LT

TH 328
 STA 102+60.56
 (MM 1,943)
 PAVED

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 101+50 TO 102+00 SOLID LT
 STA 101+50 TO 102+00 SOLID RT

SEE INTERSECTION DETAIL SHEET 30



* UNLESS OTHERWISE NOTED, PARKING SPACES ARE DIMENSIONED AS FOLLOWS: END SPACES ARE 20' LONG, INNER SPACES ARE 22' LONG.

- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

PAVING PROJECT LAYOUT #8	PROJECT: LUDLOW	PROJECT NO.: NH 2409(I)S
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:3
	IPARM FILE NAME: pb008ia08.i	SURVEY DATE: 11/2005
	SURVEYED BY: CLD_ENGINEERS, INC	DRAWN BY: MRS
SQUAD LEADER: PIS	CLD REF. NO.: 05-0389	SHEET: 19 OF 51

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
DURABLE 4" WHITE LINE, THERMOPLASTIC

STA 107+00 TO 107+44 SOLID RT PARKING
STA 107+00 TO 107+65 SOLID LT PARKING
STA 107+44 TO 107+58 SOLID RT NO PARKING
STA 107+65 TO 107+82 SOLID LT NO PARKING
STA 108+08 TO 108+13 SOLID LT NO PARKING
STA 108+13 TO 108+94 SOLID LT PARKING
STA 108+45 TO 108+85 SOLID RT PARKING
STA 108+94 TO 108+97 SOLID LT NO PARKING
STA 109+12 TO 109+18 SOLID LT NO PARKING
STA 109+18 TO 109+58 SOLID LT PARKING
STA 109+46 TO 109+86 SOLID RT PARKING
STA 109+58 TO 109+70 SOLID LT NO PARKING
STA 109+70 TO 109+90 SOLID LT PARKING
STA 109+90 TO 110+02 SOLID LT NO PARKING
STA 110+13 TO 110+27 SOLID LT NO PARKING
STA 110+17 TO 110+57 SOLID RT PARKING
STA 110+27 TO 111+33 SOLID LT PARKING
STA 111+01 TO 111+06 SOLID RT NO PARKING
STA 111+06 TO 112+00 SOLID RT PARKING
STA 111+33 TO 111+45 SOLID LT NO PARKING
STA 111+70 TO 111+76 SOLID LT NO PARKING
STA 111+76 TO 112+00 SOLID LT PARKING

TEMPORARY 4" YELLOW LINE, PAINT
DURABLE 4" YELLOW LINE, THERMOPLASTIC
STA 107+00 TO 107+82 SOLID LT & RT
STA 107+90 TO 112+00 SOLID LT & RT

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL, TYPE ITAPE
STA 107+34 RT - DISABLED MARKING
(PAID AS 2 SYMBOLS)

DURABLE 8" WHITE LINE, THERMOPLASTIC
STA 107+58 TO 109+70 SOLID LT - SHOULDER HATCHING

TEMPORARY 8" WHITE LINE, PAINT
STA 107+58 TO 109+70 SOLID LT - SHOULDER HATCHING

TEMPORARY CROSSWALK MARKING, PAINT
STA 107+86 LT TO RT

SPECIAL PROVISION
(DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
STA 107+86 LT TO RT

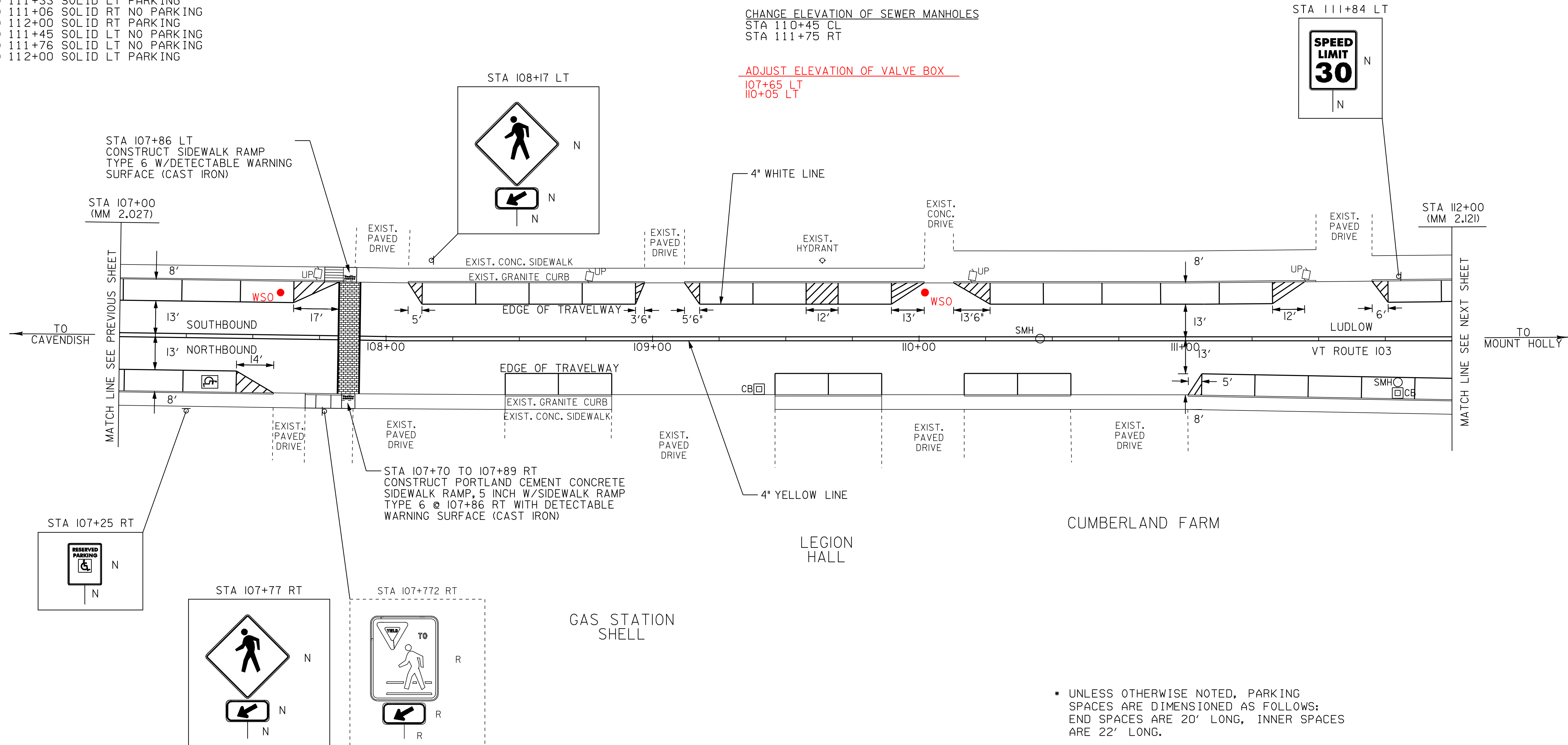
CONSTRUCT SIDEWALK RAMP W/DETECTABLE WARNING SURFACE (CAST IRON)
STA 107+86 LT (TYPE 6)
STA 107+86 RT (TYPE 6)

CHANGING ELEVATION OF DROP INLETS,
CATCH BASINS OR MANHOLES
STA 109+40 RT (CB)
STA 111+80 RT (CB)
~~STA 111+80 RT (DMH)~~

CHANGE ELEVATION OF SEWER MANHOLES
STA 110+45 CL
STA 111+75 RT

ADJUST ELEVATION OF VALVE BOX
107+65 LT
110+05 LT

REMOVING SIGNS
AS SHOWN -2



* UNLESS OTHERWISE NOTED, PARKING SPACES ARE DIMENSIONED AS FOLLOWS: END SPACES ARE 20' LONG, INNER SPACES ARE 22' LONG.

LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGE
R&S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
—○—	=	NEW RAIL
—●—	=	EXISTING RAIL

NOT TO SCALE

PAVING PROJECT LAYOUT #9

PROJECT: LUDLOW

DESIGN FILE NAME: /pave/05B008/pb008.dgn

IPARM FILE NAME: pb008la09.1

SQUAD LEADER: PIS

CLD REF. NO.: 05-0389

PROJECT NO.: NH 2409(I)S

PLOT DATE: 20-MAY-2010 14:3

SURVEY DATE: 11/205

DRAWN BY: MRS

SHEET: 20 OF 51

TEMPORARY 4" WHITE LINE, PAINT
 DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 112+00 TO 112+26 SOLID RT PARKING
 STA 112+00 TO 112+36 SOLID LT PARKING
 STA 112+26 TO 112+32 SOLID RT NO PARKING
 STA 112+36 TO 112+41 SOLID LT NO PARKING
 STA 112+61 TO 112+85 SOLID LT NO PARKING
 STA 112+64 TO 112+77 SOLID RT NO PARKING
 STA 112+77 TO 113+40 SOLID RT PARKING
 STA 112+85 TO 113+47 SOLID LT PARKING
 STA 113+40 TO 113+60 SOLID RT NO PARKING
 STA 113+47 TO 113+68 SOLID LT NO PARKING
 STA 113+87 TO 113+97 SOLID LT NO PARKING (TH 330)
 STA 114+49 TO 114+91 SOLID LT NO PARKING
 STA 115+05 TO 115+10 SOLID LT NO PARKING
 STA 115+10 TO 115+51 SOLID LT PARKING
 STA 115+20 TO 115+25 SOLID RT NO PARKING
 STA 115+25 TO 115+64 SOLID RT PARKING
 STA 115+51 TO 115+63 SOLID LT NO PARKING
 STA 115+63 TO 116+48 SOLID LT PARKING
 STA 115+64 TO 115+69 SOLID RT NO PARKING
 STA 116+03 TO 116+08 SOLID RT NO PARKING
 STA 116+08 TO 116+48 SOLID RT PARKING
 STA 116+48 TO 116+50 SOLID LT NO PARKING
 STA 116+48 TO 116+50 SOLID RT NO PARKING

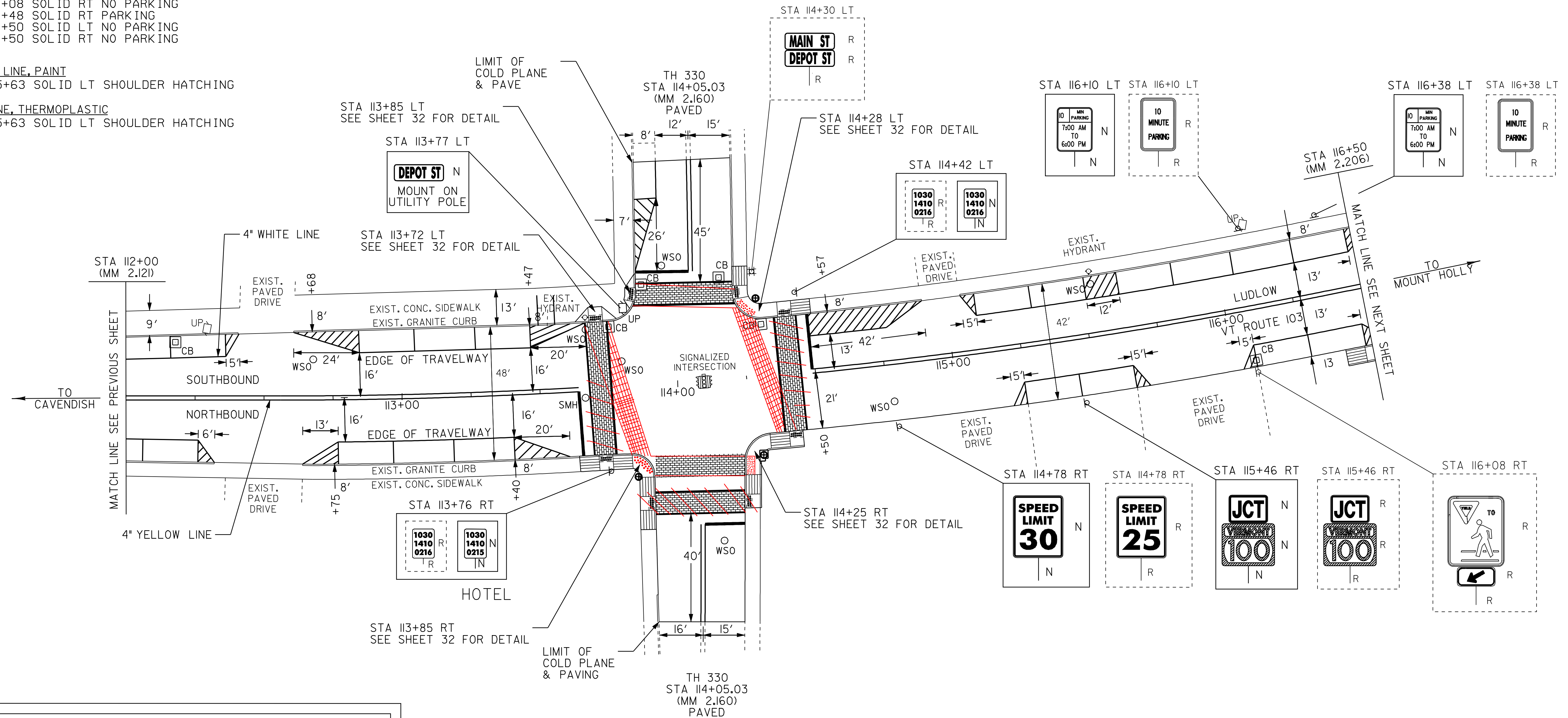
TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 112+00 TO 113+64 SOLID LT & RT
 STA 114+49 TO 116+50 SOLID LT & RT
 TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE I TAPE
 STA 113+64 RT
 STA 114+05 LT (TH 330)
 STA 114+07 RT (TH 330)
 STA 114+49 LT

TEMPORARY CROSSWALK MARKING, PAINT
 STA 113+72 LT TO RT
 STA 113+87 TO 114+22 LT
 STA 113+89 TO 114+21 RT
 STA 114+40 LT TO RT
 SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 113+72 LT TO RT
 STA 113+87 TO 114+22 LT
 STA 113+89 TO 114+21 RT
 STA 114+40 LT TO RT
 CONSTRUCT SIDEWALK RAMP W/DETECTABLE
 WARNING SURFACE (CAST IRON)
 STA 113+85 RT (TYPE 6)
 STA 113+81 LT (TYPE 6)
 STA 114+25 RT (TYPE 6)
 STA 114+28 LT (TYPE 6)

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS OR MANHOLES
~~STA 112+18 LT (CB)~~
~~STA 113+76 LT (CB)~~
 STA 113+89 LT (CB) (TH 330)
 STA 114+18 LT (CB) (TH 330)
~~STA 114+32 LT (CB)~~
 STA 116+08 RT (CB)
 CHANGE ELEVATION OF SEWER MANHOLES
 STA 113+65 RT (SMH)
 ADJUST ELEVATION OF VALVE BOX
 STA 112+68 LT (WSO)
 STA 113+68 LT (WSO)
 STA 113+80 LT (WSO)
 STA 113+97 LT (WSO) (TH 330)
 STA 114+12 RT (WSO) (TH 330)
 STA 114+77 RT (WSO)
 STA 115+53 LT (WSO)

REMOVING SIGNS
 AS SHOWN - 11
 REHAB CB,DI
 112+18 LT
 113+76 LT
 114+32 LT

TEMPORARY 8" WHITE LINE, PAINT
 STA 115+51 TO 115+63 SOLID LT SHOULDER HATCHING
 DURABLE 8" WHITE LINE, THERMOPLASTIC
 STA 115+51 TO 115+63 SOLID LT SHOULDER HATCHING

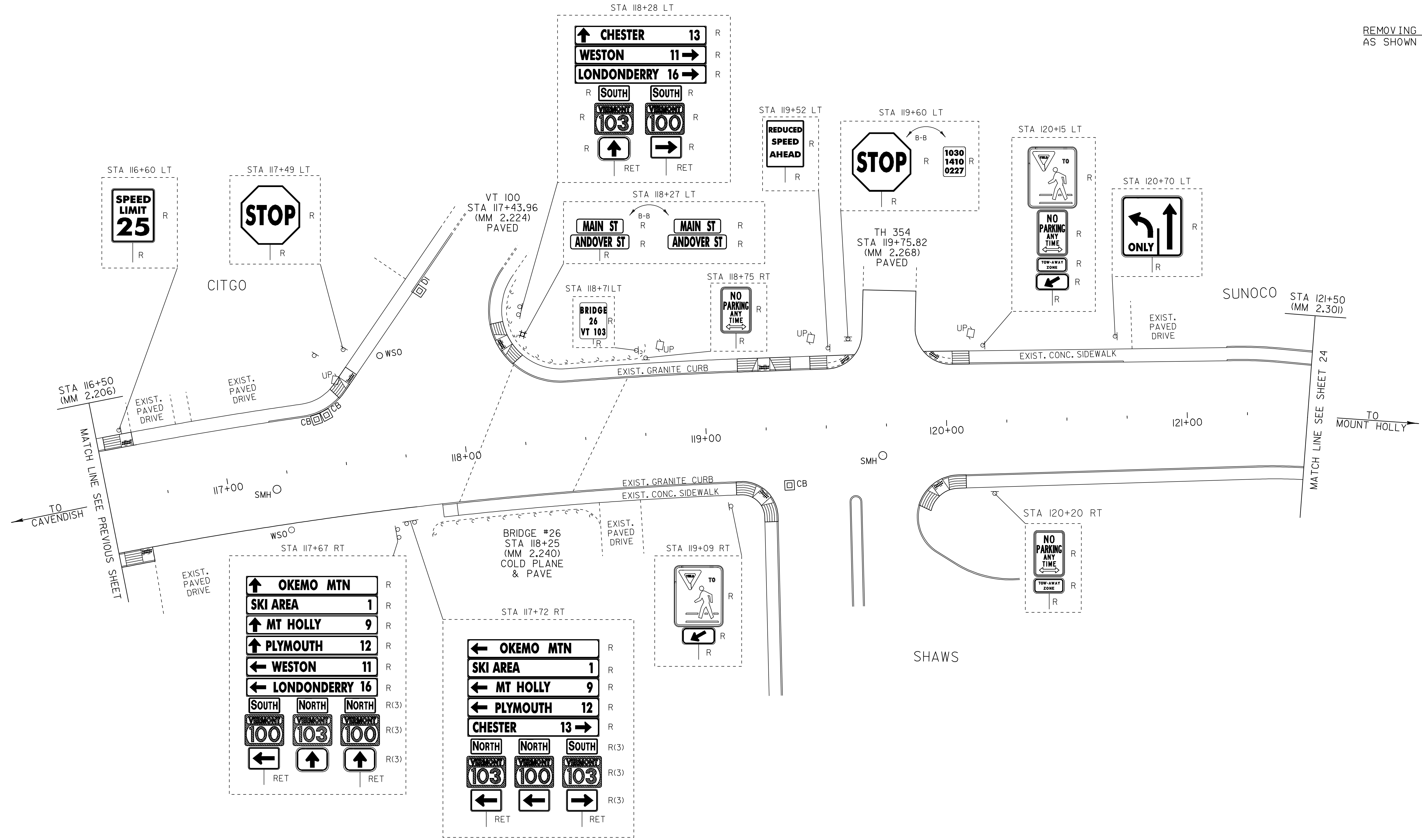


THE LOCATION OF THE SIGNAL/PEDESTRIAN PEDESTALS IS APPROXIMATE, THE LOCATION AND DEPTH OF THE ELECTRICAL CONDUITS ARE UNKNOWN, THE CONTRACTOR MUST TAKE CARE NOT TO DAMAGE THE ELECTRICAL CONDUITS IN THE PROCESS OF COLD PLANING OR CONSTRUCTING SIDEWALK OR PEDESTRIAN RAMPS. ANY DAMAGE INCURRED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.

NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - - - = EXISTING RAIL
 - ⊙ = PEDESTRIAN SIGNAL POLE

PAVING PROJECT LAYOUT #10	PROJECT: LUDLOW	PROJECT NO.: NH_2409(I)S
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:3
	IPARM FILE NAME: pb008d10.i	SURVEY DATE: 11/20/05
	SURVEYED BY: CLD_ENGINEERS, INC	DRAWN BY: MRS
SQUAD LEADER: PIS	CLD_REF_NO.: 05-0389	SHEET: 21 OF 51



NOT TO SCALE

- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - — — = EXISTING RAIL

**PAVING
PROJECT
LAYOUT #11
EXISTING**

PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:3
IPARM FILE NAME:	pb0081all.i	SURVEY DATE:	11/205
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS	SHEET:	22 OF 51
CLD REF. NO.:	05-0389		

TEMPORARY 4" WHITE LINE, PAINT
 STA 116+50 TO 116+58 SOLID LT NO PARKING
 STA 116+50 TO 116+58 SOLID RT NO PARKING
 STA 116+66 TO 117+55 SOLID LT
 STA 116+66 TO 119+20 SOLID RT
 STA 118+19 TO 119+20 SOLID LT
 STA 119+28 TO 119+57 SOLID LT
 STA 119+99 TO 121+50 SOLID LT
 STA 119+99 TO 121+50 SOLID RT
 STA 119+99 TO 121+14 SOLID LT LANE LINE
 STA 121+14 TO 121+50 DOTTED LT LANE LINE

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 116+50 TO 116+58 SOLID LT NO PARKING
 STA 116+50 TO 116+58 SOLID RT NO PARKING
 STA 116+66 TO 117+55 SOLID LT
 STA 116+66 TO 119+20 SOLID RT
 STA 118+19 TO 119+20 SOLID LT
 STA 119+28 TO 119+57 SOLID LT
 STA 119+99 TO 121+50 SOLID LT
 STA 119+99 TO 121+50 SOLID RT

DURABLE 4" WHITE LINE, TYPE I TAPE
 STA 119+99 TO 121+14 SOLID LT LANE LINE
 STA 121+14 TO 121+50 DOTTED LT LANE LINE

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 116+50 TO 116+58 SOLID LT & RT
 STA 116+66 TO 117+43 SOLID LT & RT
 STA 117+82 DOUBLE SOLID LT (VT 100)
 STA 117+83 TO 119+20 SOLID LT & RT
 STA 119+99 TO 121+50 SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE I TAPE
 STA 117+81 LT (VT 100)
 STA 119+77 LT (TH 354)

TEMPORARY CROSSWALK MARKING, PAINT
 STA 116+62 LT TO RT
 STA 117+57 TO 118+17 LT
 STA 119+24 LT TO RT
 STA 119+59 TO 119+95 LT

SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 116+62 LT TO RT
 STA 117+57 TO 118+17 LT
 STA 119+24 LT TO RT
 STA 119+59 TO 119+95 LT

TEMPORARY LETTER OR SYMBOL, PAINT
 STA 117+83 LT - "STOP" (VT 100)
 STA 119+73 LT - "STOP" (TH 354)
 STA 120+07 LT - LEFT TURN ARROW
 STA 121+10 LT - LEFT TURN ARROW

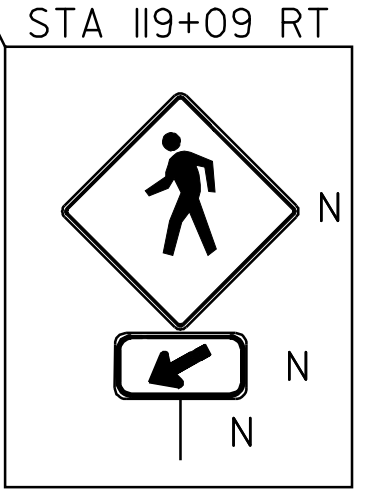
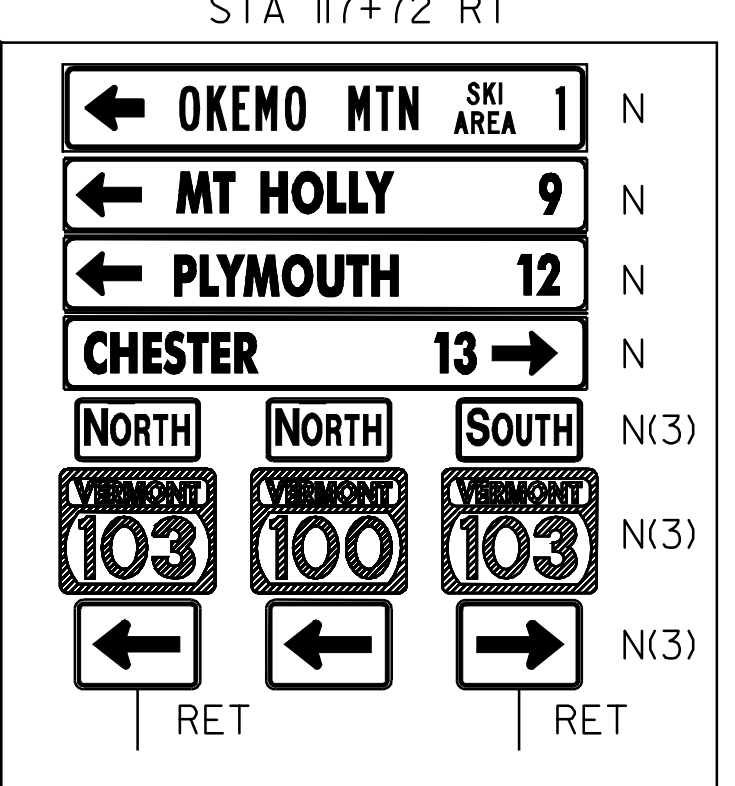
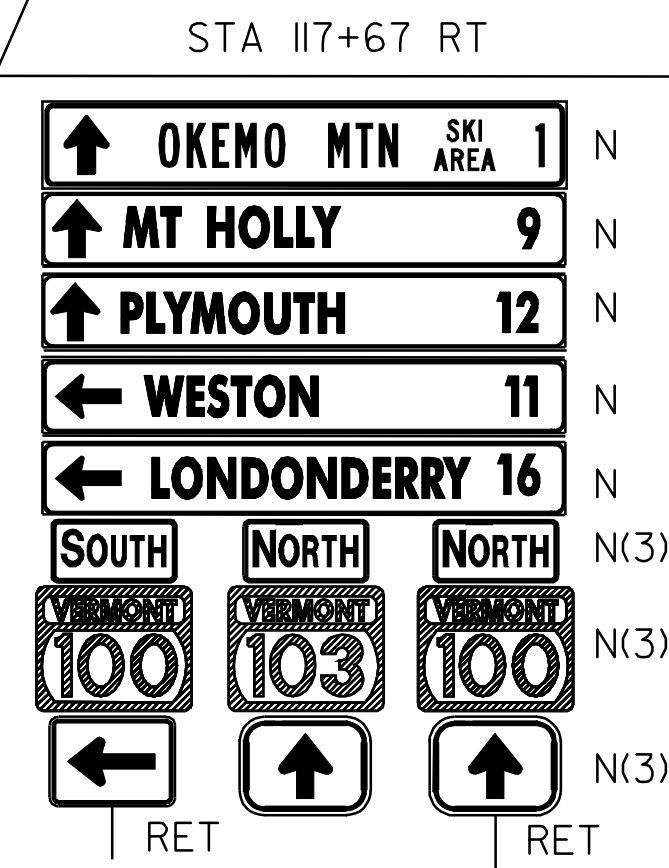
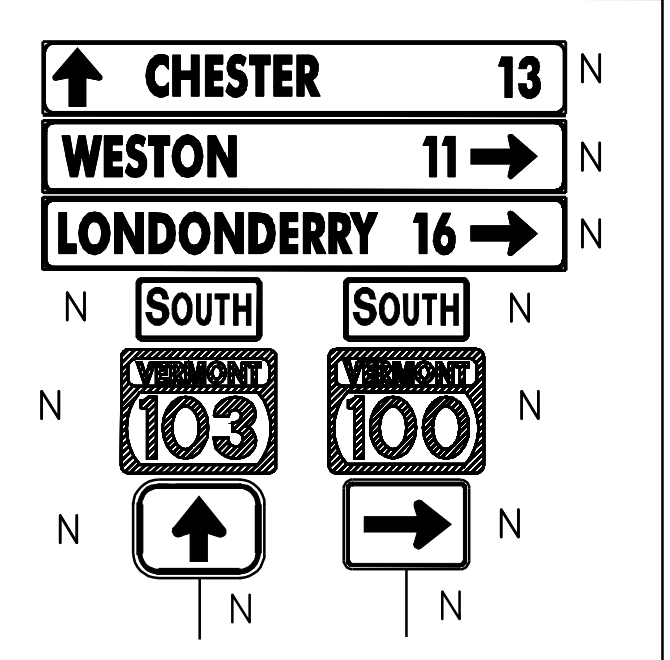
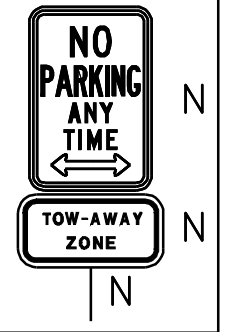
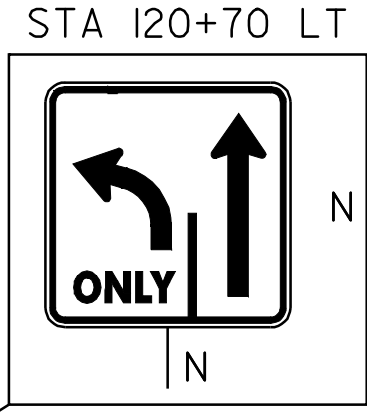
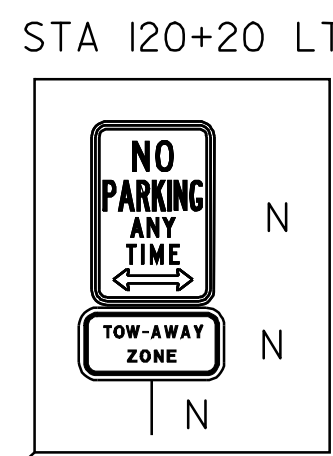
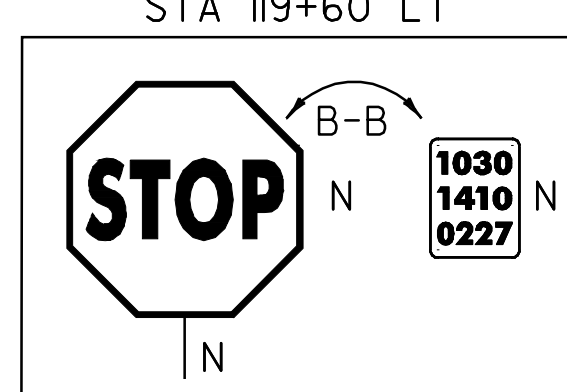
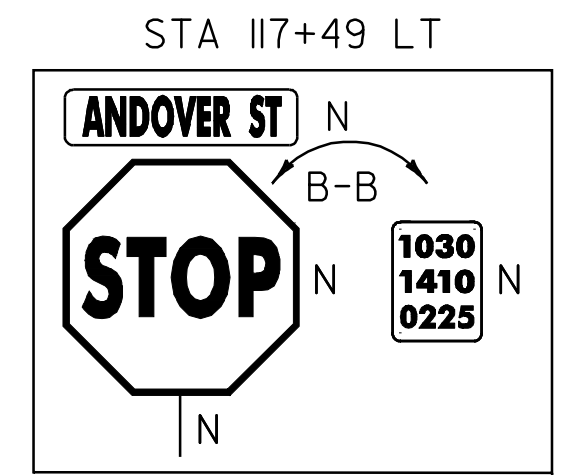
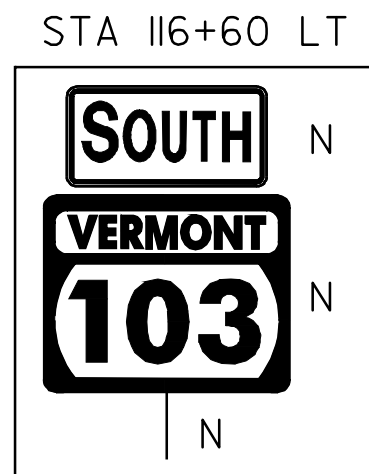
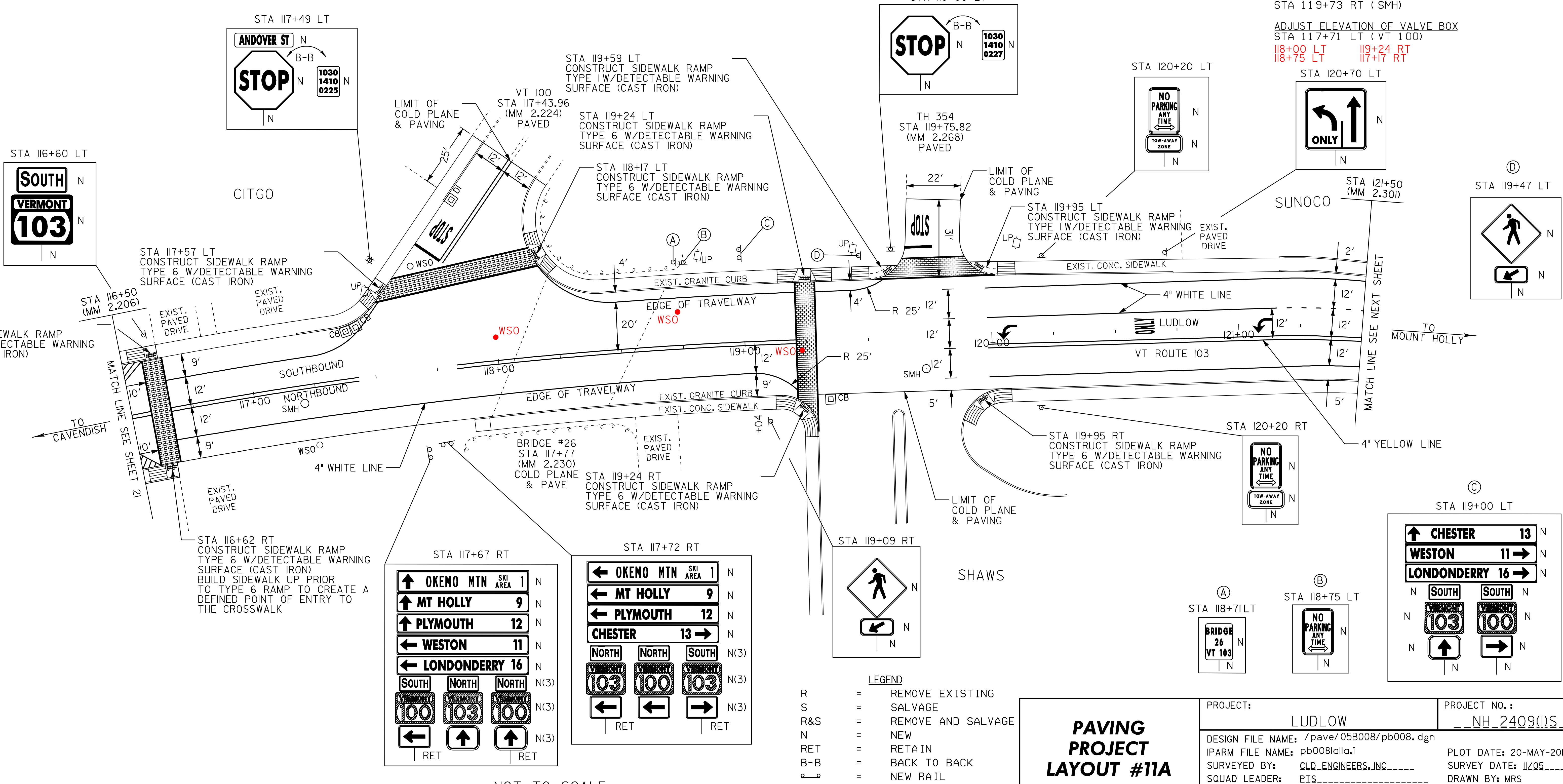
DURABLE LETTER OR SYMBOL, TYPE I TAPE
 STA 117+83 LT - "STOP" (VT 100)
 STA 119+73 LT - "STOP" (TH 354)
 STA 120+07 LT - LEFT TURN ARROW
 STA 120+58 LT - "ONLY"
 STA 121+10 LT - LEFT TURN ARROW

CONSTRUCT SIDEWALK RAMP W/DETECTABLE WARNING SURFACE (CAST IRON)
 STA 116+62 LT (TYPE 6)
 STA 116+62 RT (TYPE 6)
 STA 117+57 LT (TYPE 6)
 STA 118+17 LT (TYPE 6)
 STA 119+24 LT (TYPE 6)
 STA 119+24 RT (TYPE 6)
 STA 119+59 LT (TYPE 1)
 STA 119+95 LT (TYPE 1)
 STA 119+95 RT (TYPE 6)

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES
 STA 117+40 LT (CB) DOUBLE GRATE
~~STA 117+44 LT (CB)~~
~~STA 117+88 LT (DI) (VT 100)~~
 STA 119+34 RT (CB)

CHANGING ELEVATION OF SEWER MANHOLES
 STA 117+20 RT (SMH)
 STA 119+73 RT (SMH)

ADJUST ELEVATION OF VALVE BOX
 STA 117+71 LT (VT 100)
 I18+00 LT I19+24 RT
 I18+75 LT I17+17 RT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - - - = EXISTING RAIL

PAVING PROJECT LAYOUT #11A

PROJECT: LUDLOW	PROJECT NO.: NH 2409(I)S
DESIGN FILE NAME: /paver/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:
IPARM FILE NAME: pb008i1a1.g	SURVEY DATE: 11/05
SURVEYED BY: CLD_ENGINEERS, INC	DRAWN BY: MRS
SQUAD LEADER: PIS	SHEET: 23 OF 51
CLD_REF_NO.: 05-0389	

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
 STA 121+50 TO 122+10 DOTTED LT LANE LINE
 STA 121+50 TO 122+32 SOLID LT
 STA 121+50 TO 125+29 SOLID RT
 STA 122+82 TO 123+28 SOLID LT
 STA 123+84 TO 124+40 SOLID LT
 STA 124+90 TO 125+29 SOLID LT
 STA 124+44 TO 124+67 SOLID LT (TH 362)
 STA 124+85 TO 124+86 SOLID LT (TH 362)
 STA 125+37 TO 126+50 SOLID LT
 STA 125+37 TO 126+50 SOLID RT

DURABLE 4" WHITE LINE, TYPE I TAPE
 STA 121+50 TO 122+10 DOTTED LT LANE LINE
 STA 122+82 TO 123+28 SOLID LT
 STA 123+84 TO 124+40 SOLID LT
 STA 124+90 TO 125+29 SOLID LT

TEMPORARY 4" YELLOW LINE, PAINT
DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 121+50 TO 122+30 SOLID LT & RT
 STA 121+81 TO 122+30 DOUBLE SOLID LT (ISLAND)
 STA 122+65 DOUBLE SOLID LT (TH 360)
 STA 122+69 TO 123+04 DOUBLE SOLID LT (ISLAND)
 STA 122+69 TO 123+41 SOLID LT & RT
 STA 123+34 DOUBLE SOLID LT (TH 356)
 STA 123+82 TO 124+36 SOLID LT & RT
 STA 124+59 DOUBLE SOLID LT (TH 362)
 STA 124+76 TO 125+29 SOLID LT & RT
 STA 125+37 TO 126+50 SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT
DURABLE 24" STOP BAR, TYPE I TAPE
 STA 122+65 LT (TH 360)
 STA 122+99 LT (TH 360)
 STA 123+34 LT (TH 356)
 STA 124+59 LT (TH 362)

CONSTRUCT SIDEWALK RAMP W/DETECTABLE WARNING SURFACE (CAST IRON)
 STA 122+36 LT (TYPE 6)
 STA 122+82 LT (TYPE 1)
 STA 123+28 LT (TYPE 1)
 STA 124+91 LT (TYPE 6)
 STA 125+33 LT (TYPE 6)
 STA 125+33 RT (TYPE 6)

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 121+50 TO 122+32 SOLID LT
 STA 121+50 TO 125+29 SOLID RT
 STA 124+44 TO 124+67 SOLID LT (TH 362)
 STA 124+85 TO 124+86 SOLID LT (TH 362)
 STA 125+37 TO 126+50 SOLID LT
 STA 125+37 TO 126+50 SOLID RT

STA 122+82 LT
 CONSTRUCT SIDEWALK RAMP
 TYPE 1W/DETECTABLE WARNING SURFACE (CAST IRON)

TEMPORARY 8" YELLOW LINE, PAINT
DURABLE 8" YELLOW LINE, THERMOPLASTIC
 STA 121+94 TO 122+30 LT
 STA 122+69 TO 122+89 LT

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL, TYPE I TAPE
 STA 122+68 LT - "STOP" (TH 360)
 STA 122+97 LT - "STOP" (TH 360)
 STA 123+24 LT - "STOP" (TH 356)
 STA 124+57 LT - "STOP" (TH 362)

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES
 STA 121+81 RT (CB)
 STA 121+86 RT (CB)
~~STA 122+29 LT (CB)~~
~~STA 122+58 LT (CB) (TH 360)~~
 STA 122+84 LT (CB) (TH 360) } **DOUBLE**
 STA 122+87 LT (CB) (TH 360) } **DOUBLE**
 STA 123+00 LT (CB) } **DOUBLE-NO WORK DONE**
 STA 123+04 RT (CB) } **DOUBLE-NO WORK DONE**
 STA 124+34 LT (CB) } **DOUBLE**
 STA 124+38 LT (CB) } **DOUBLE**
 STA 124+91 LT (CB) } **DOUBLE**
 STA 124+94 LT (CB) } **DOUBLE**
~~STA 125+41 LT (CB)~~

TEMPORARY CROSSWALK MARKING, PAINT
 STA 122+36 TO 122+82 LT
 STA 123+28 TO 124+91 LT
 STA 125+33 LT TO RT

SPECIAL PROVISION (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 122+36 TO 122+82 LT
 STA 123+28 TO 124+91 LT
 STA 125+33 LT TO RT

REHAB OF CB, DI
 122+39 LT
 122+58 LT
 125+41 LT

CHANGING ELEVATION OF SEWER MANHOLES
 STA 122+73 LT (SMH) (TH 360)
 STA 122+88 LT (SMH) (TH 360)
 STA 124+28 RT (SMH)

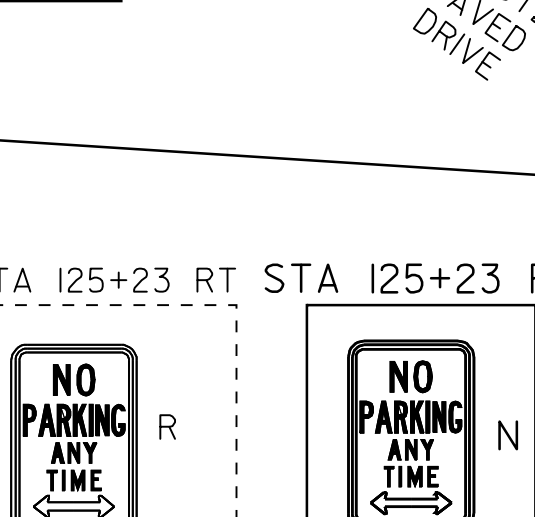
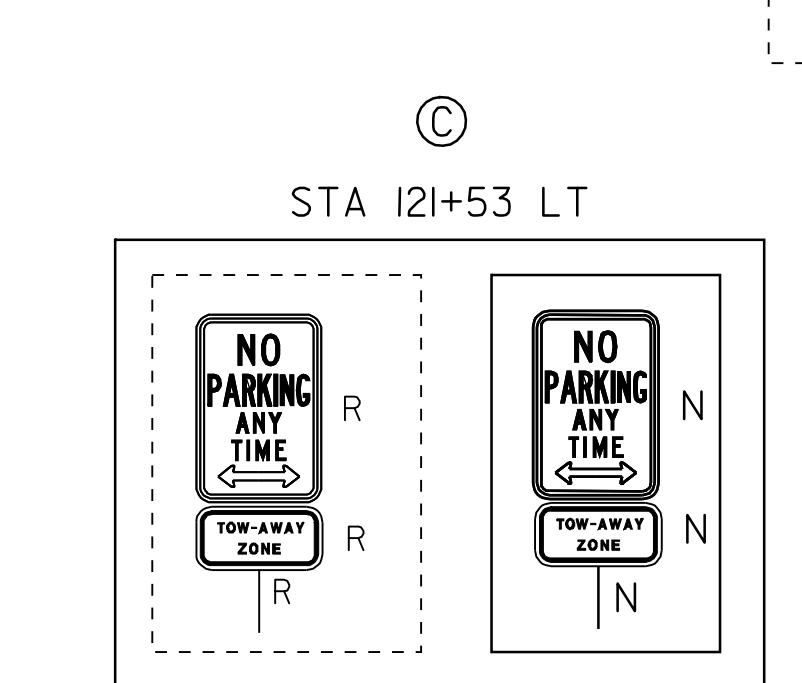
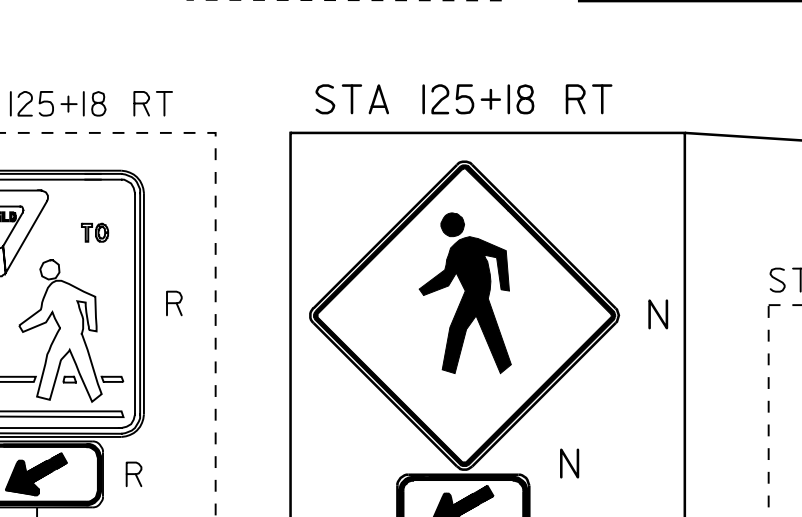
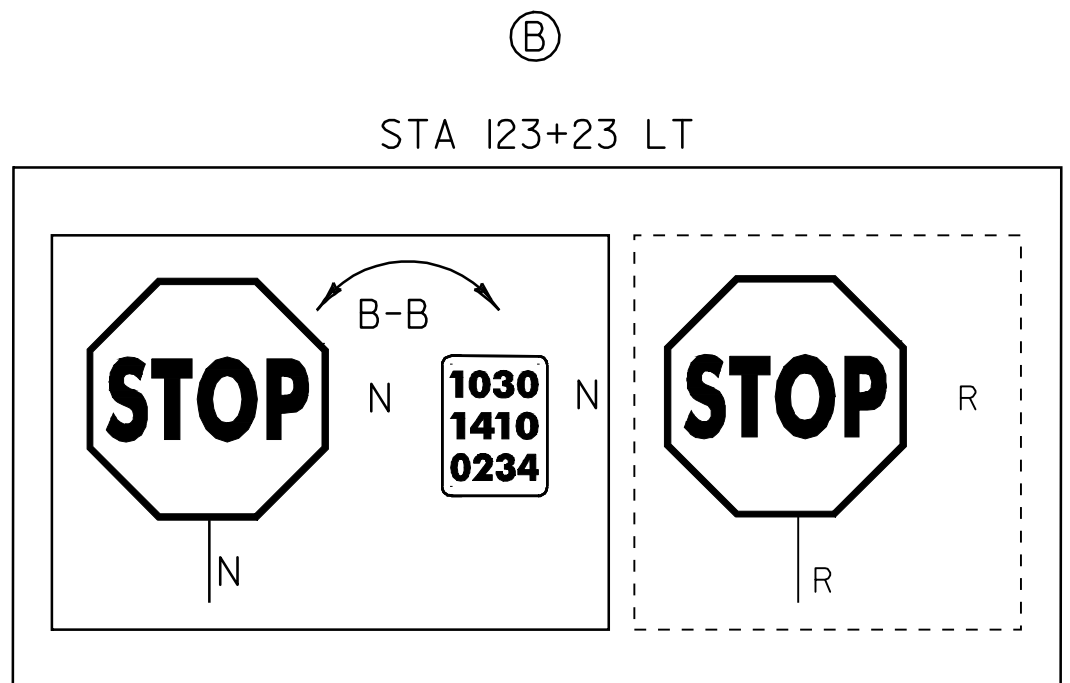
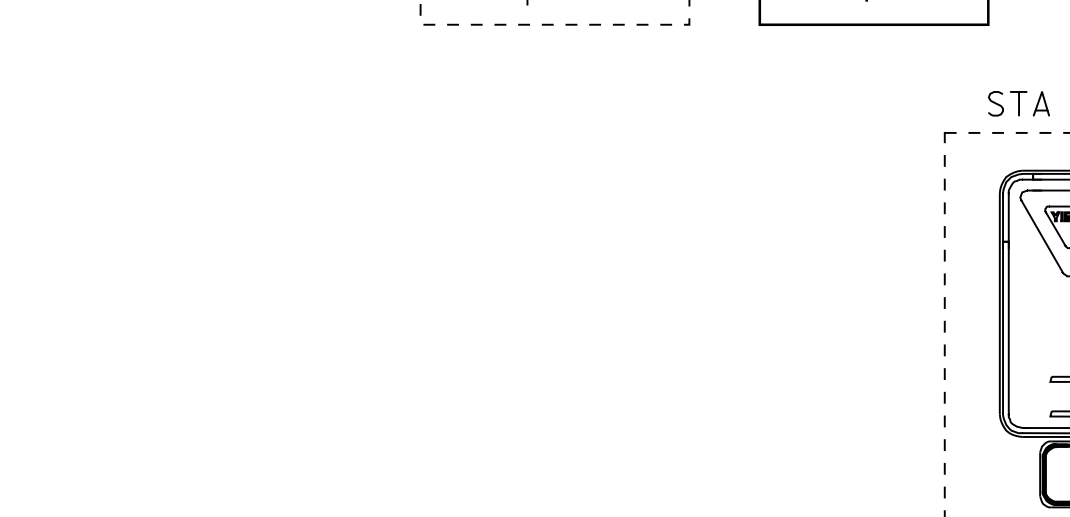
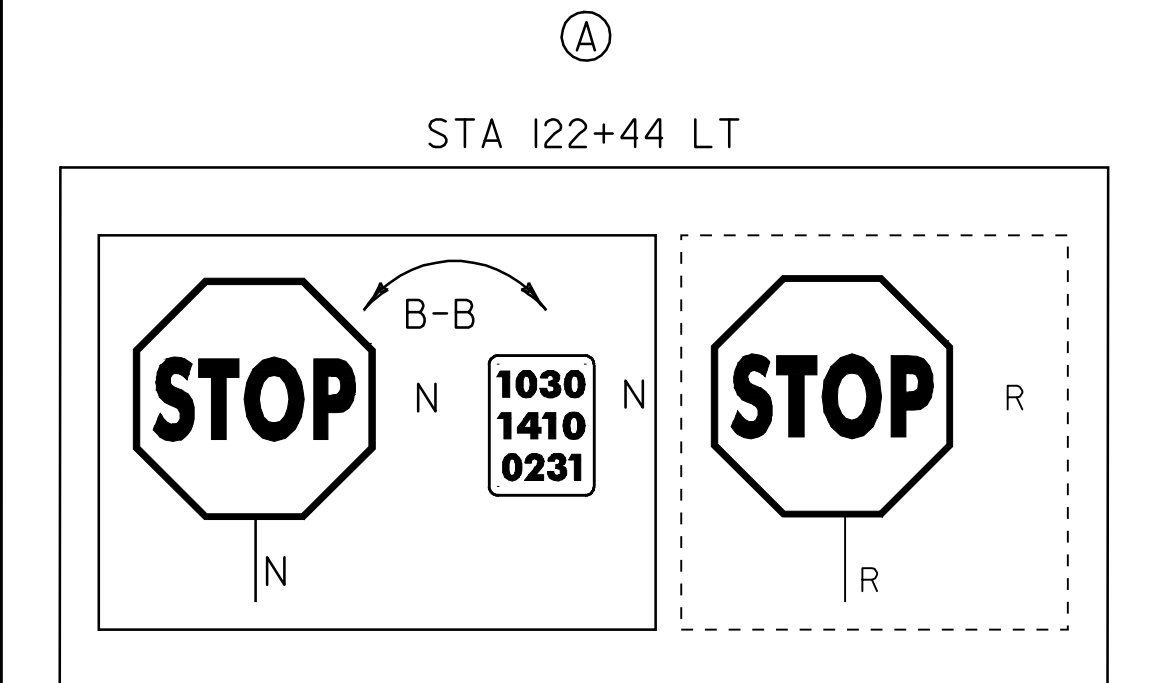
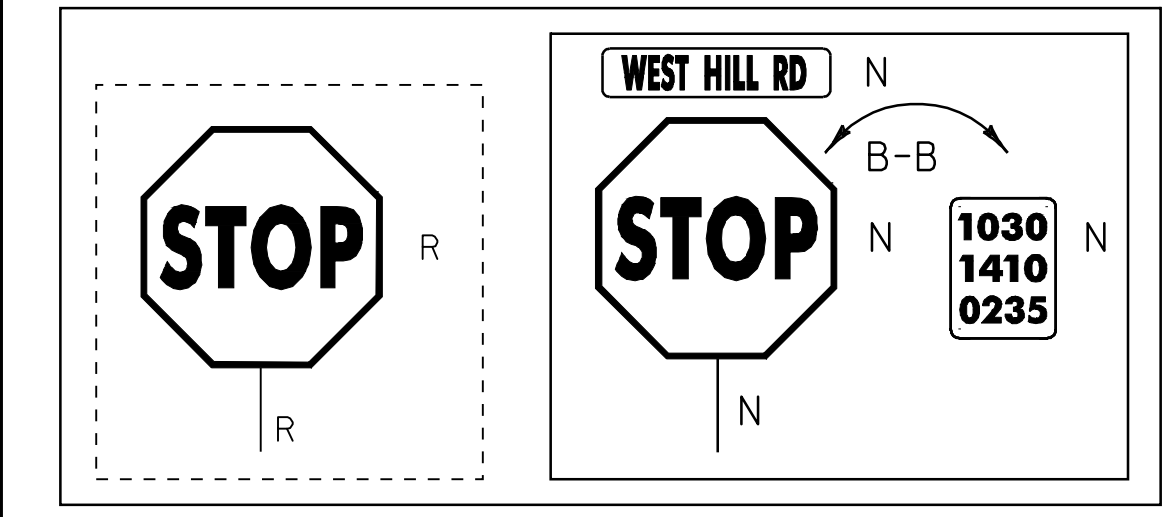
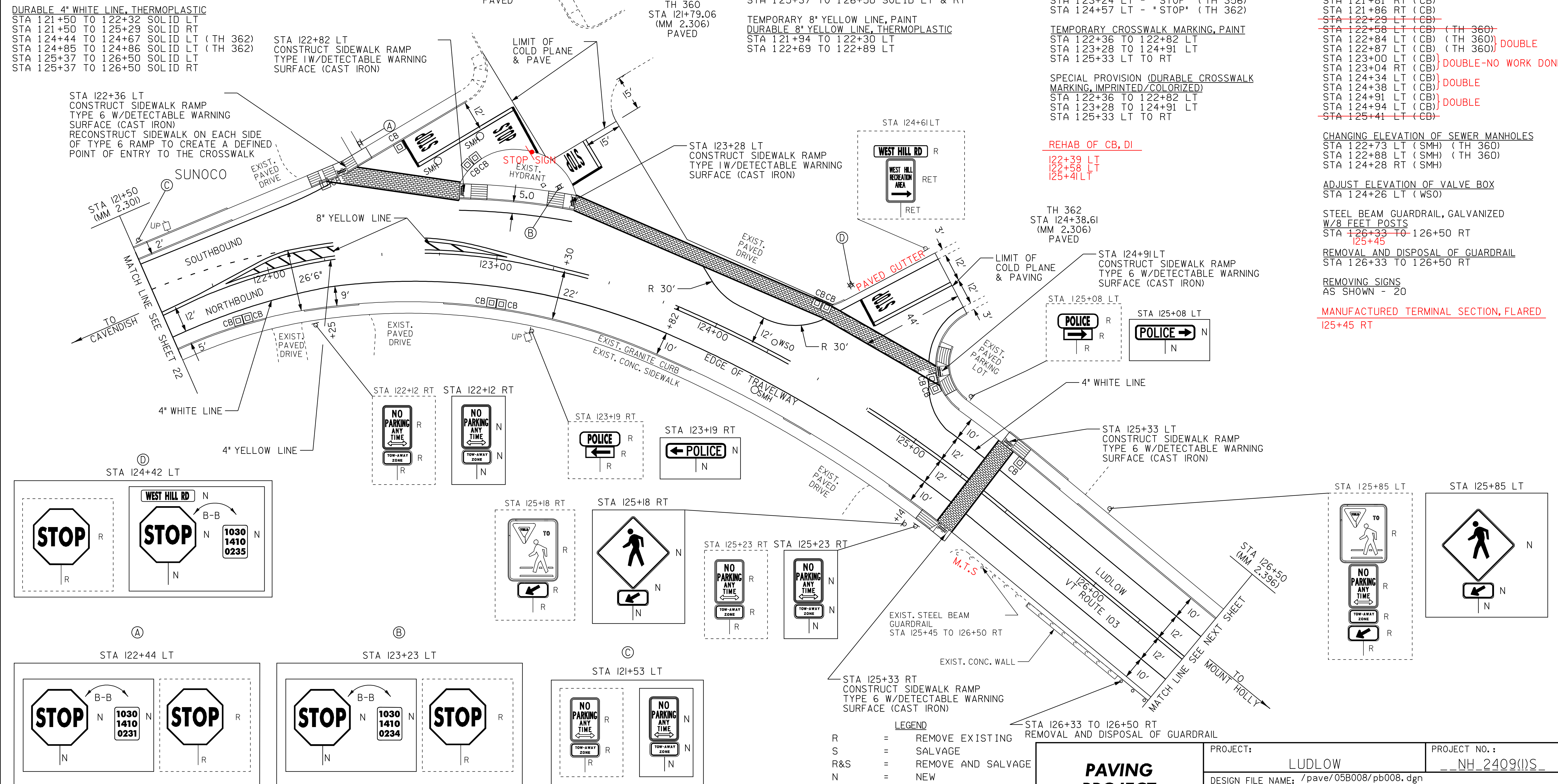
ADJUST ELEVATION OF VALVE BOX
 STA 124+26 LT (WSO)

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
 STA 126+33 TO 126+50 RT
 125+45

REMOVAL AND DISPOSAL OF GUARDRAIL
 STA 126+33 TO 126+50 RT

REMOVING SIGNS AS SHOWN - 20

MANUFACTURED TERMINAL SECTION, FLARED 125+45 RT



- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - - - = EXISTING RAIL

PAVING PROJECT LAYOUT #12

PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
DESIGN FILE NAME:	7/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:
IPARM FILE NAME:	pb008ld2.l	SURVEY DATE:	11/05
SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
SQUAD LEADER:	PIS	SHEET:	24 OF 51
CLD REF. NO.:	05-0389		

NOT TO SCALE

TEMPORARY 4" WHITE LINE, PAINT
 STA 131+50 TO 137+00 SOLID LT
 STA 131+50 TO 137+00 SOLID RT
 STA 135+25 TO 136+25 DOTTED RT
 STA 136+25 TO 137+00 SOLID RT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 131+50 TO 137+00 SOLID LT
 STA 131+50 TO 137+00 SOLID RT

DURABLE 4" WHITE LINE, TYPE ITAPE
 STA 135+25 TO 136+25 DOTTED RT
 STA 136+25 TO 137+00 SOLID RT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 131+50 TO 134+37 SOLID LT & RT
 STA 134+37 TO 136+25 DOUBLE SOLID LT
 STA 134+37 TO 136+25 DOUBLE SOLID RT
 STA 136+25 TO 137+00 SOLID LT

TEMPORARY 8" YELLOW LINE, PAINT
 DURABLE 8" YELLOW LINE, THERMOPLASTIC
 STA 134+52 TO 136+00 SOLID LT & RT (GORE)

TEMPORARY LETTER OR SYMBOL, PAINT
 STA 136+29 RT - LEFT TURN ARROW

DURABLE LETTER OR SYMBOL, TYPE ITAPE
 STA 136+29 RT - LEFT TURN ARROW
 STA 136+81 LT - "ONLY"

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS OR MANHOLES

STA 132+55 RT (CB)
 STA 132+55 LT (CB)
 STA 134+12 LT (CB)
 STA 134+13 RT (CB)
 STA 136+06 LT (CB)
 STA 136+14 RT (CB)

CHANGING ELEVATION OF SEWER MANHOLES

STA 131+59 LT (SMH)
 STA 134+77 LT (SMH)
 STA 136+82 LT (SMH)

ADJUST ELEVATION OF VALVE BOX
 STA 134+82 LT (WSO)

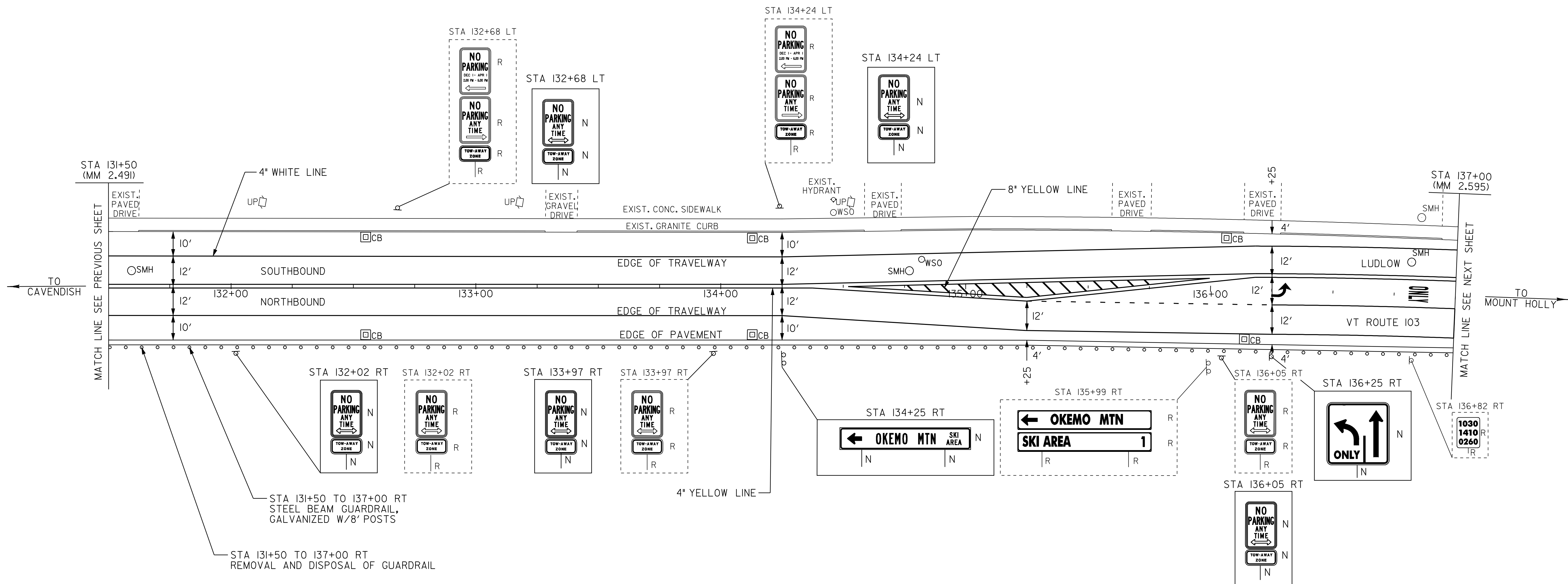
REHAB OF CB, DI
 132+55 LT

STEEL BEAM GUARDRAIL, GALVANIZED
 W/8 FEET POSTS
 STA 131+50 TO 137+00 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
 STA 131+50 TO 137+00 RT

BITUMINOUS CONCRETE CURB, TYPE B
 STA 131+50 TO 137+00 RT

REMOVING SIGNS
 AS SHOWN - 15



- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - — — = EXISTING RAIL

NOT TO SCALE

PAVING PROJECT LAYOUT #14	PROJECT: LUDLOW	PROJECT NO.: NH 2409(I)S
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:3
	IPARM FILE NAME: pb008ld4.l	SURVEY DATE: 11/2005
	SURVEYED BY: CLD_ENGINEERS, INC	DRAWN BY: MRS
SQUAD LEADER: PIS	CLD_REF_NO.: 05-0389	SHEET: 26 OF 51

TEMPORARY 4" WHITE LINE, PAINT
 STA 137+00 TO 138+27 SOLID LT
 STA 137+00 TO 138+69 SOLID RT LANE LINE
 STA 137+00 TO 141+30 SOLID RT
 STA 139+20 TO 142+50 SOLID LT
 STA 141+77 TO 142+50 SOLID LT

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 137+00 TO 138+27 SOLID LT
 STA 137+00 TO 141+30 SOLID RT
 STA 139+20 TO 142+50 SOLID LT
 STA 141+77 TO 142+50 SOLID LT

DURABLE 4" WHITE LINE, TYPE 1 TAPE
 STA 137+00 TO 138+69 SOLID RT LANE LINE

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 137+00 TO 138+45 SOLID LT
 STA 138+81 TO 139+08 DOUBLE SOLID LT (SA 3)
 STA 139+14 TO 141+43 DOUBLE SOLID LT & RT
 STA 141+83 TO 142+50 SOLID LT & RT

TEMPORARY 8" YELLOW LINE, PAINT
 DURABLE 8" YELLOW LINE, THERMOPLASTIC
 STA 139+16 TO 140+82 SOLID LT & RT (GORE)

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE 1 TAPE
 STA 138+80 LT (SA 3)

TEMPORARY LETTER OR SYMBOL, PAINT
 STA 137+41 LT - LEFT TURN ARROW
 STA 138+78 LT - "STOP" (SA 3)

DURABLE LETTER OR SYMBOL, TYPE 1 TAPE
 STA 137+33 LT - LEFT TURN ARROW
 STA 137+87 LT - "ONLY"
 STA 138+41 LT - LEFT TURN ARROW
 STA 138+78 LT - "STOP" (SA 3)

TEMPORARY CROSSWALK MARKING, PAINT
 STA 138+28 TO 139+19 LT
 STA 141+24 LT & RT

SPECIAL PROVISION
 (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 138+28 TO 139+19 LT
 STA 141+24 LT & RT

CONSTRUCT SIDEWALK RAMP W/DETECTABLE WARNING SURFACE (CAST IRON)
 STA 138+28 LT (TYPE 1) **ADJUST ELEVATION OF VALVE BOX 141+20 LT**
 STA 139+19 LT (TYPE 1)

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES
~~STA 138+07 RT (CB)~~
~~STA 139+95 RT (CB)~~ **138+35 LT**
 STA 142+34 LT (CB)
 STA 140+09 LT

REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS 1
 STA 141+06 LT (OTDI)
138+07 RT

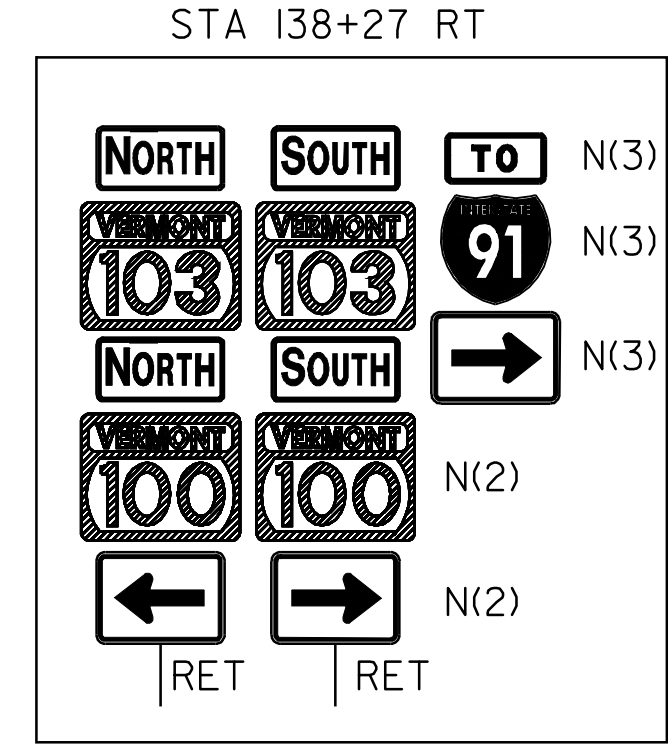
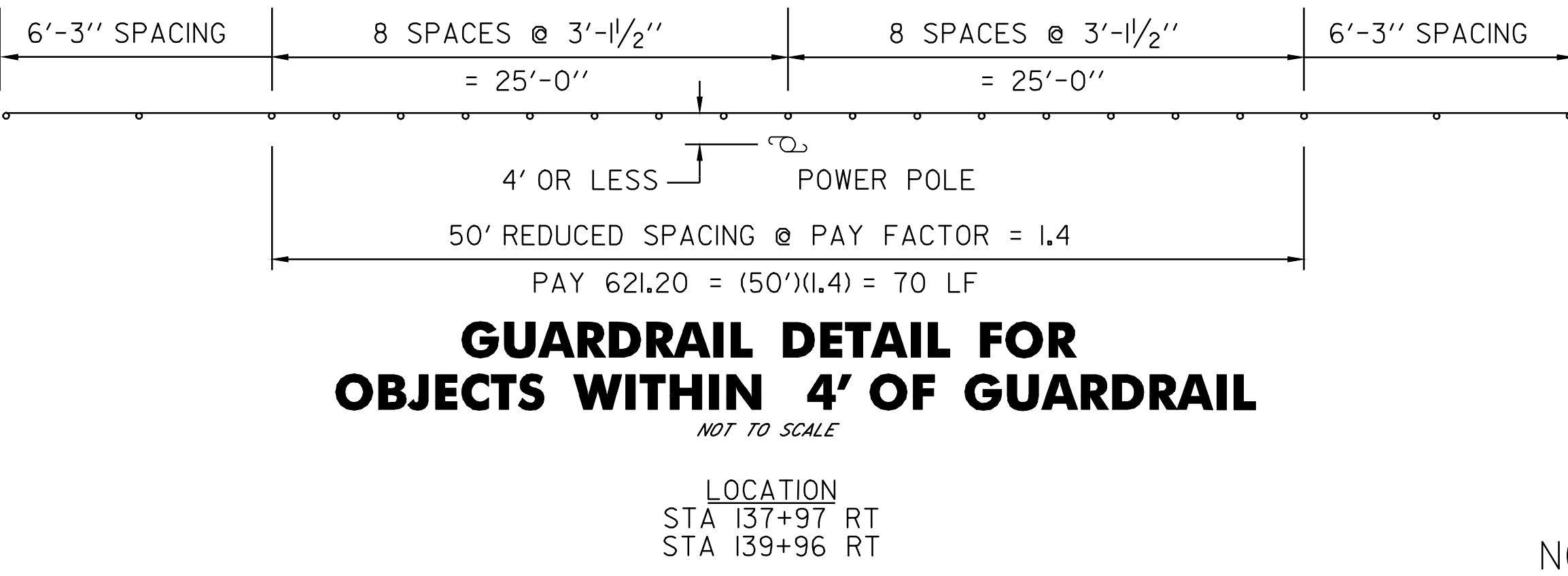
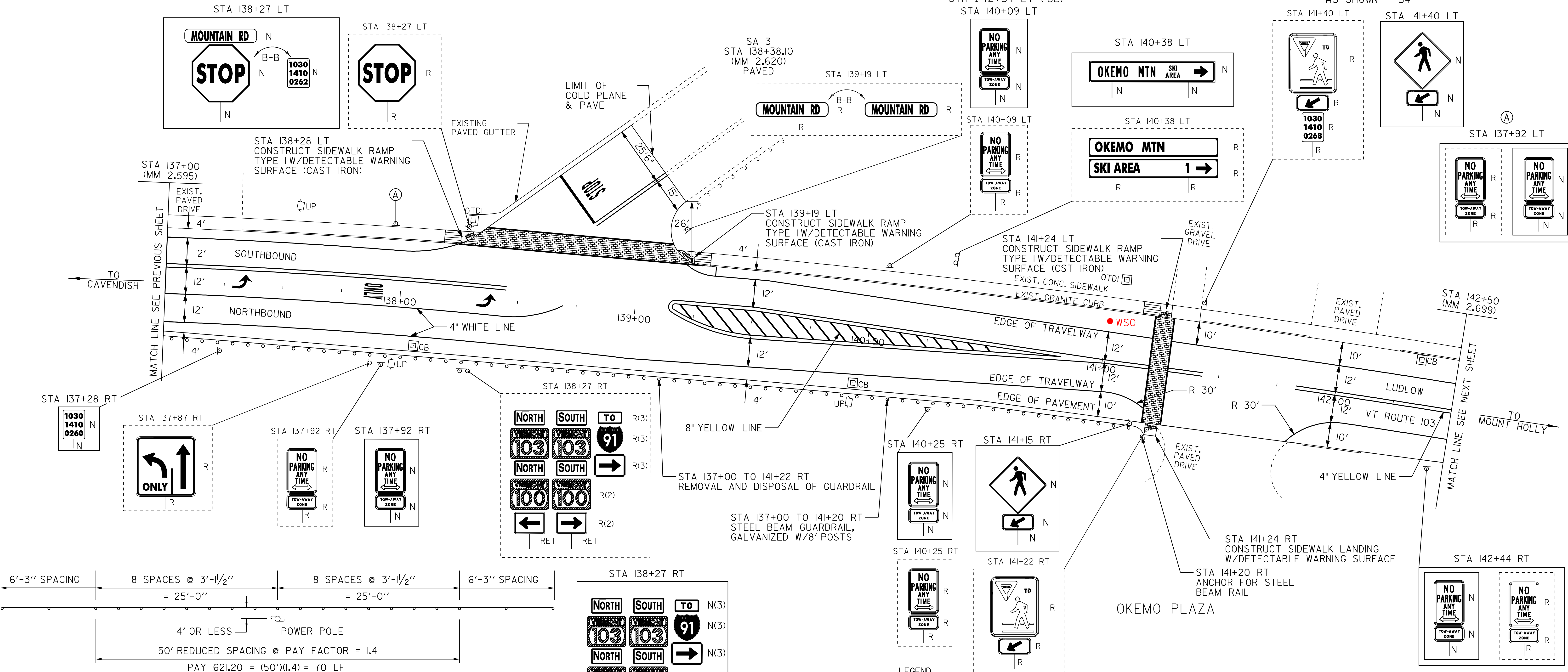
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
 STA 137+00 TO 141+20 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
 STA 137+00 TO 141+22 RT

ANCHOR FOR STEEL BEAM RAIL
 STA 141+20 RT

BITUMINOUS CONCRETE CURB, TYPE B
 STA 137+00 TO 140+00 RT

REMOVING SIGNS
 AS SHOWN - 34



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

PAVING PROJECT LAYOUT #15

PROJECT:	LUDLOW	PROJECT NO.:	NH 2409(I)S
DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:3
IPARM FILE NAME:	pb008la15.i	SURVEY DATE:	11/05
SURVEYED BY:	CLD_ENGINEERS, INC	SQUAD LEADER:	PIS
SQUAD LEADER:	PIS	DRAWN BY:	MRS
CLD_REF_NO.:	05-0389	SHEET:	27 OF 51

TEMPORARY 4" WHITE LINE, PAINT
 DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 142+50 TO 146+48 SOLID LT
 STA 142+50 TO 148+00 SOLID RT
 STA 146+72 TO 148+00 SOLID LT

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 142+50 TO 146+35 SOLID LT & RT
 STA 146+75 TO 148+00 SOLID LT & RT

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS OR MANHOLES
 STA 143+02 RT (CB)
~~STA 143+83 RT (CB)~~
~~STA 146+27 LT (CB)~~
 STA 147+87 LT (CB)

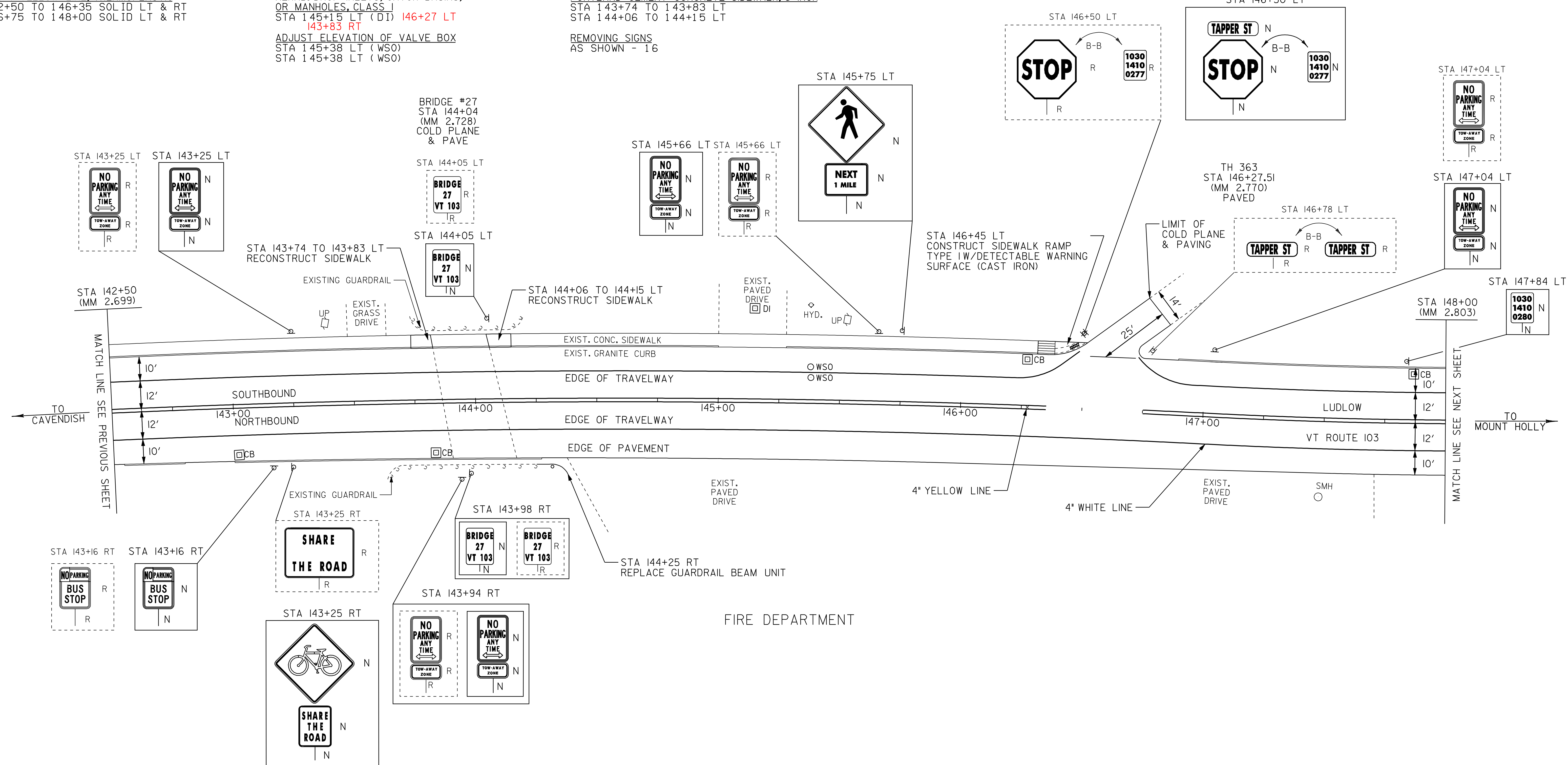
REHAB. DROP INLETS, CATCH BASINS,
 OR MANHOLES, CLASS I
 STA 145+15 LT (DI) 146+27 LT
 143+83 RT
 ADJUST ELEVATION OF VALVE BOX
 STA 145+38 LT (WSO)
 STA 145+38 LT (WSO)

REPLACE GUARDRAIL BEAM UNIT, GALVANIZED
 STA 144+25 RT

CONSTRUCT SIDEWALK RAMP W/DETECTABLE
 WARNING SURFACE (CAST IRON)
 STA 146+45 LT (TYPE 1)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
 STA 143+74 TO 143+83 LT
 STA 144+06 TO 144+15 LT

REMOVING SIGNS
 AS SHOWN - 16



- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

NOT TO SCALE

PAVING PROJECT LAYOUT #16	PROJECT: LUDLOW	PROJECT NO.: NH_2409(I)S
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:3
	IPARM FILE NAME: pb008lcl6.l	SURVEY DATE: 11/2005
	SQUAD LEADER: PIS	DRAWN BY: MRS
	CLD REF. NO.: 05-0389	SHEET: 28 OF 51

TEMPORARY 4" WHITE LINE, PAINT
 DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 148+00 TO 151+12 SOLID LT
 STA 148+00 TO 151+12 SOLID RT

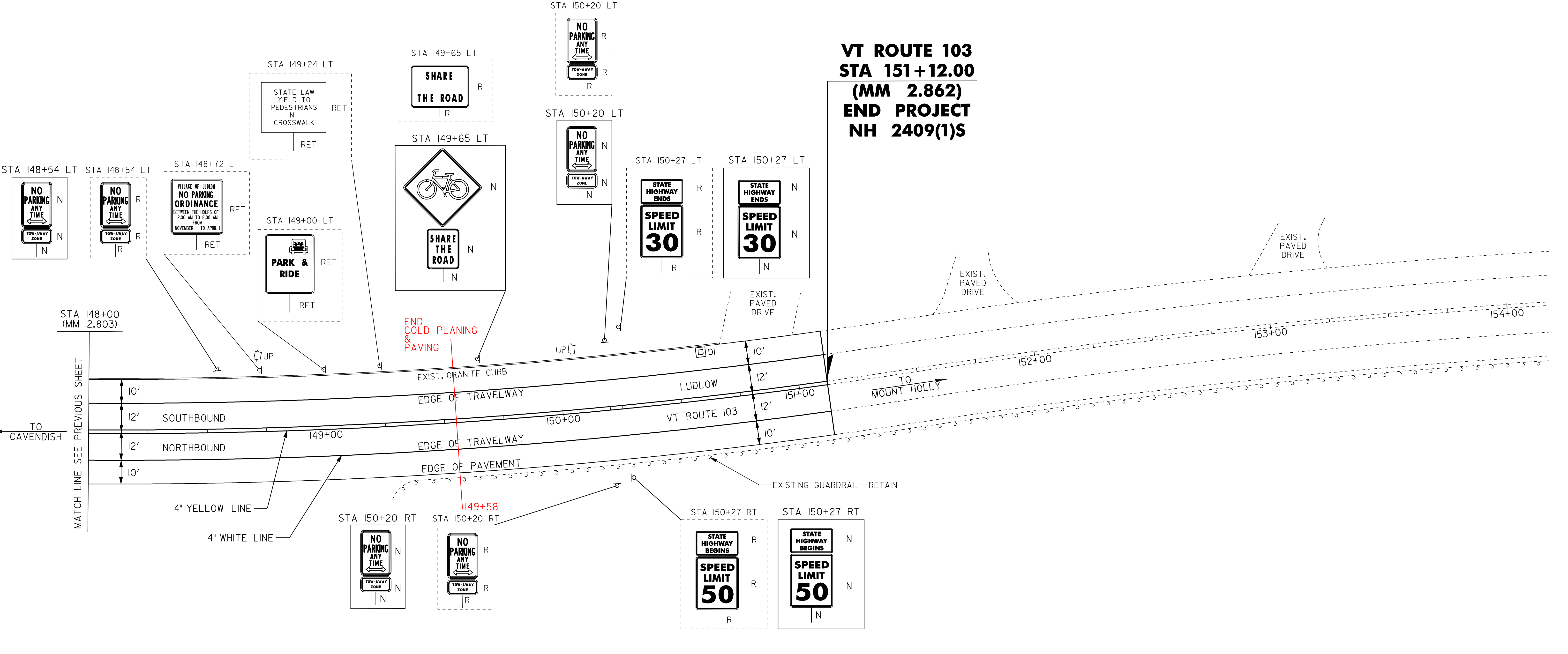
TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 148+00 TO 151+12 SOLID LT & RT

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS OR MANHOLES
 STA 150+60 LT (DI)

REMOVING SIGNS
 AS SHOWN - 11

NO WORK DONE

**VT ROUTE 103
 STA 151+12.00
 (MM 2.862)
 END PROJECT
 NH 2409(1)S**



MATCH LINE SEE PREVIOUS SHEET

TO
CAVENDISH

TO
MOUNT HOLLY

NOT TO SCALE

- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

PAVING PROJECT LAYOUT #17	PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(1)S
	DESIGN FILE NAME:	/pave/05B008/pb008.dgn		
	IPARM FILE NAME:	pb0081d17.i		
	SURVEYED BY:	CLD_ENGINEERS, INC	SURVEY DATE:	20-MAY-2010 14:3
SQUAD LEADER:	PIS	DRAWN BY:	MRS	
CLD_REF_NO.:	05-0389	SHEET:	29 OF 51	

TEMPORARY 4" WHITE LINE, PAINT
 STA 102+00 TO 102+62 SOLID LT
 STA 102+00 TO 103+04 SOLID RT
 STA 104+11 TO 104+19 SOLID LT NO PARKING
 STA 104+19 TO 104+25 SOLID LT PARKING

DURABLE 4" WHITE LINE, THERMOPLASTIC
 STA 102+00 TO 102+62 SOLID LT
 STA 102+00 TO 103+04 SOLID RT
 STA 104+11 TO 104+19 SOLID LT NO PARKING
 STA 104+19 TO 104+25 SOLID LT PARKING

TEMPORARY 4" YELLOW LINE, PAINT
 DURABLE 4" YELLOW LINE, THERMOPLASTIC
 STA 102+00 TO 102+60 SOLID LT & RT
 STA 103+13 TO 104+25 SOLID LT & RT
 STA 0+34 TO 1+06 SOLID LT & RT (TH 328)

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, TYPE 1 TAPE
 STA 0+30 LT (TH 328)

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, TYPE 1 TAPE
 STA 0+34 LT - "STOP" (TH 328)

TEMPORARY CROSSWALK MARKING, PAINT
 STA 102+65 TO 103+08 LT
 STA 103+08 LT TO RT

SPECIAL PROVISION (DURABLE CROSSWALK MARKING, IMPRINTED/COLORIZED)
 STA 102+65 LT (TYPE 5)
 STA 103+08 LT (TYPE 1)
 STA 103+08 RT (TYPE 6)

CONSTRUCT SIDEWALK RAMP W/DETECTABLE WARNING SURFACE (CAST IRON)
 STA 102+65 LT (TYPE 5)
 STA 103+08 LT (TYPE 1)
 STA 103+08 RT (TYPE 6)

NEW CB BY TOWN →
 NEW DI →

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES
 STA 104+00 LT (CB)
 STA 104+12 RT (CB)

CHANGING ELEVATION OF SEWER MANHOLE
 STA 103+34 LT (SMH)
 +0.75 CL

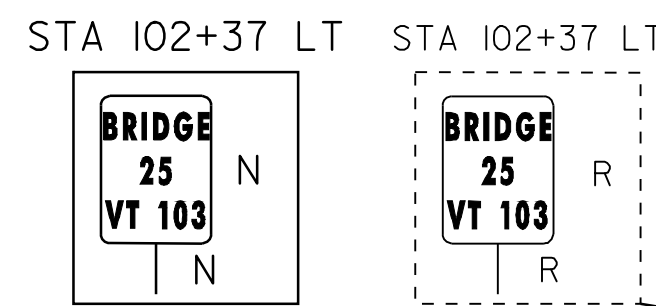
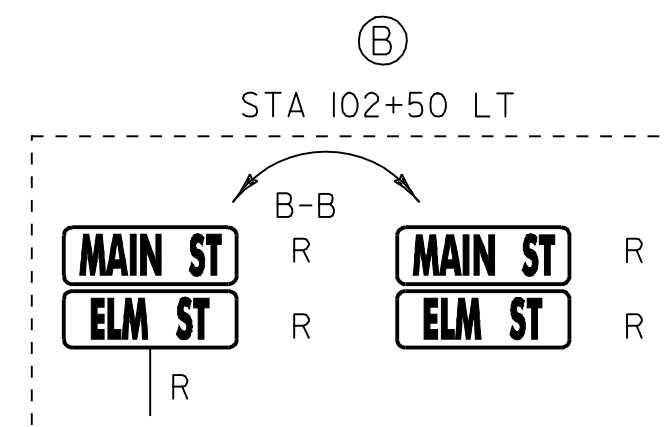
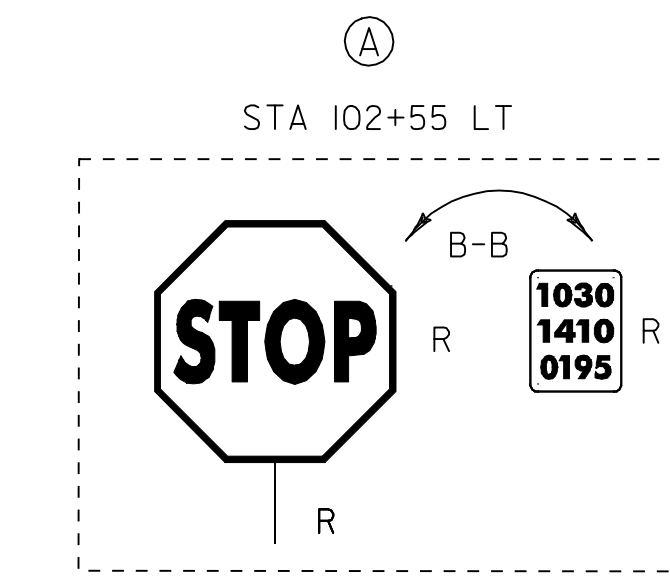
ADJUST ELEVATION OF VALVE BOX
 STA 102+76 LT (WSO) (TH 328)
 +0.50 LT

EXCAVATION OF SURFACES AND PAVEMENTS
 STA 102+43 TO 0+79 LT
 STA 1+06 RT TO 103+98 LT

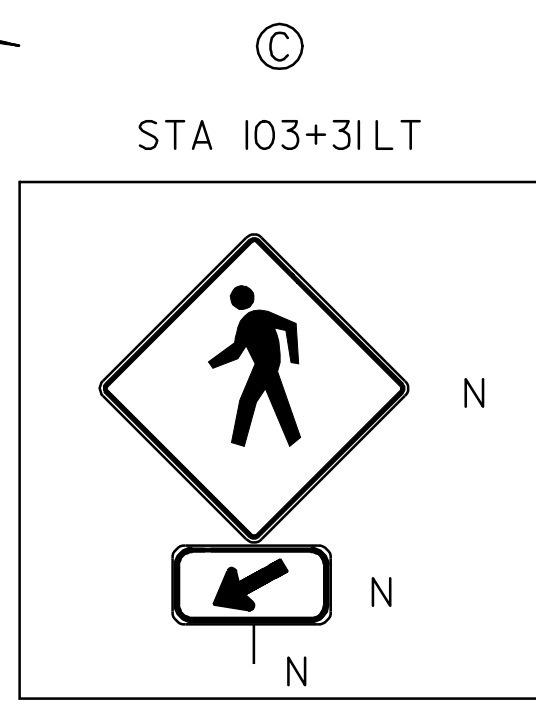
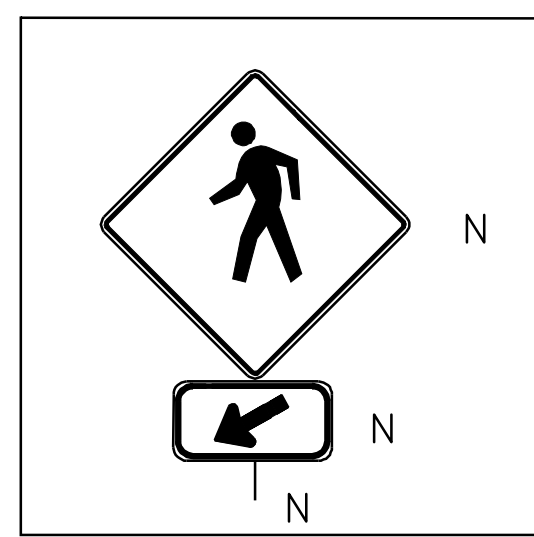
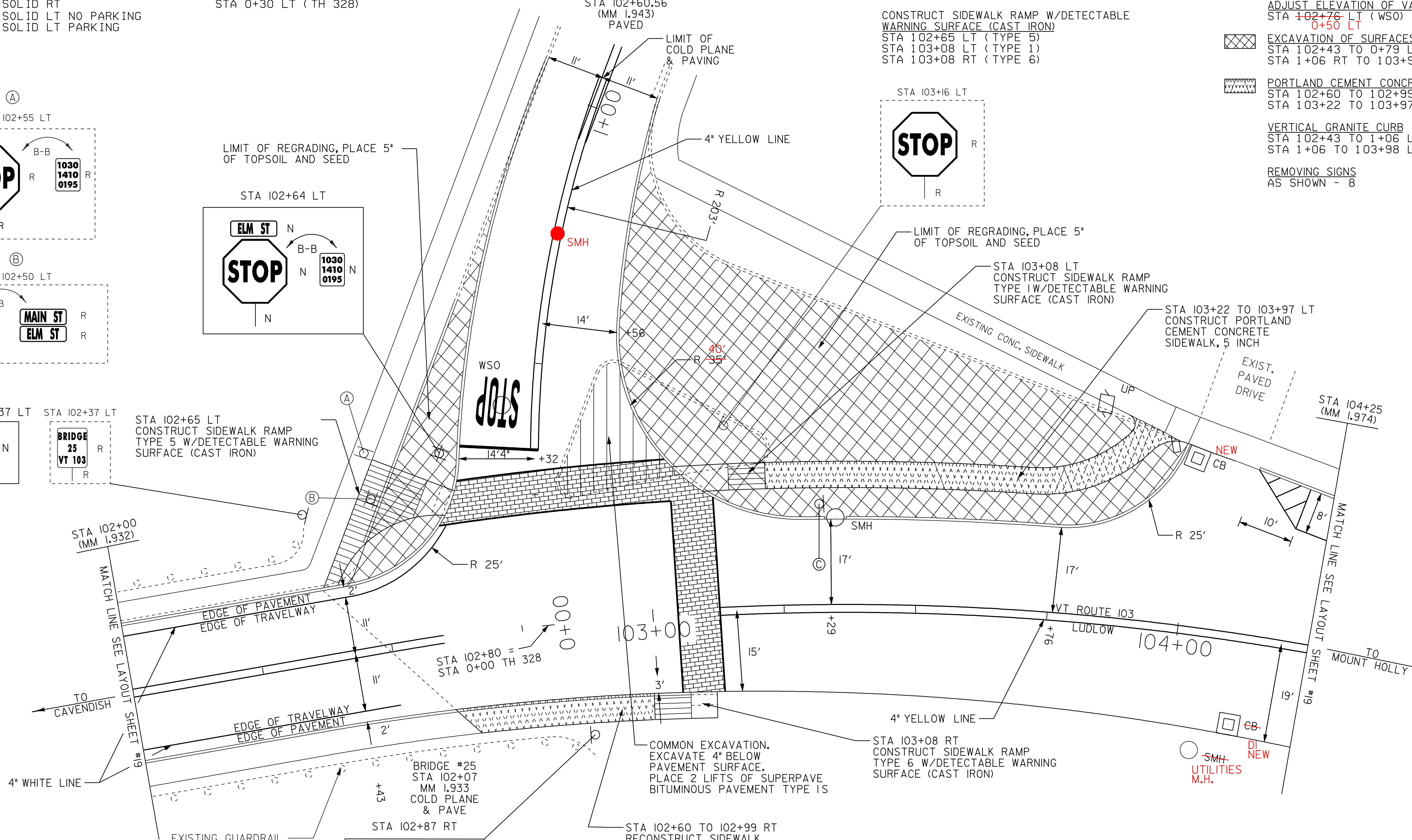
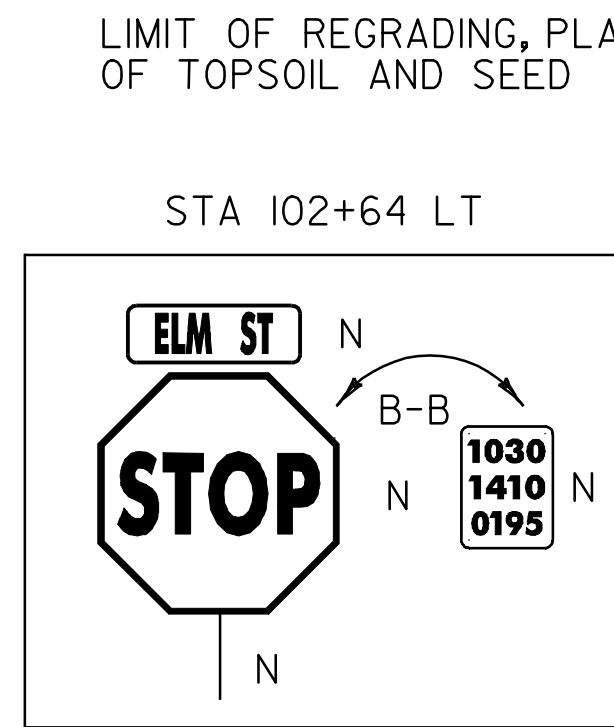
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
 STA 102+60 TO 102+99 RT
 STA 103+22 TO 103+97 LT

VERTICAL GRANITE CURB
 STA 102+43 TO 1+06 LT
 STA 1+06 TO 103+98 LT

REMOVING SIGNS
 AS SHOWN - 8



STA 102+65 LT
 CONSTRUCT SIDEWALK RAMP
 TYPE 5 W/DETECTABLE WARNING SURFACE (CAST IRON)



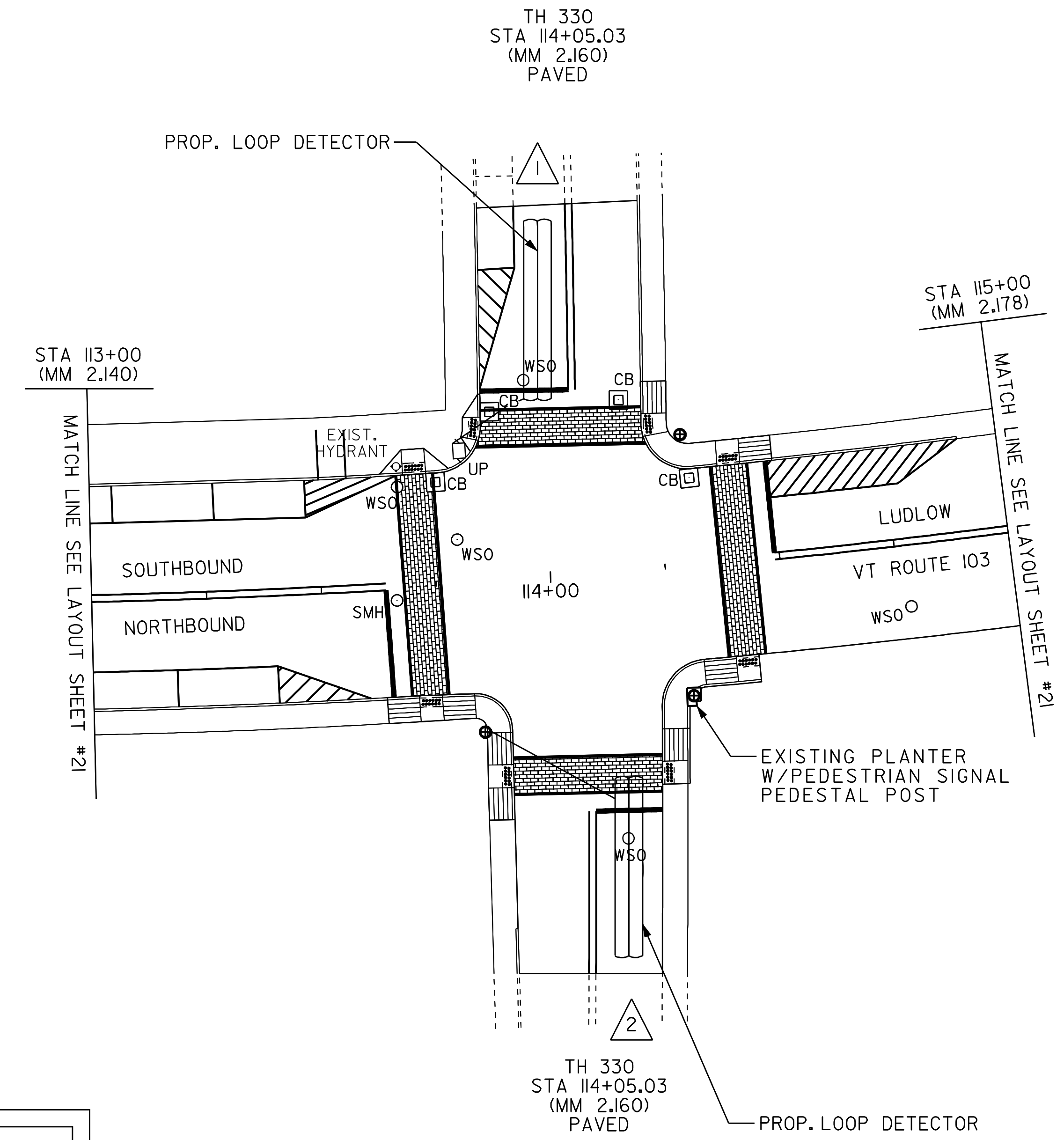
- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

INTERSECTION DETAIL SHEET	PROJECT: LUDLOW	PROJECT NO.: NH 2409(I)S
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:
	IPARM FILE NAME: pb008isd01.i	SURVEY DATE: 11/05
	SURVEYED BY: CLD_ENGINEERS, INC	DRAWN BY: MRS
SQUAD LEADER: PIS	CLD REF. NO.: 05-0389	SHEET: 30 OF 51

TEST RESULTS												
VEHICLE LOOP DETECTORS								INDUCTANCE micro - H		RESISTANCE OHM @ 77° C		(MEGOHM)
LANE	LOOP NO.	SIZE	NO TURNS	TYPE	CALL Ø	MODE	AMP.	CALCULATED	MEASURED	CALCULATED	MEASURED	LEAKAGE TO GROUND
EB	1	6' X 40'	2	QUAD	4	PRESENCE	NON-DELAY	338				
WB	2	6' X 40'	2	QUAD	8	PRESENCE	NON-DELAY	338				
ALL CALCULATED VALUES ARE AT THE CONTROLLER. MEASURED VALUES MUST BE FILLED IN PRIOR TO JOB ACCEPTANCE												

VEHICLE LOOP DETECTOR INSTALLATION NOTES

- EXISTING LOOPS SHALL BE DISCONNECTED AT THE CURB LINE PRIOR TO COLD PLANING.
- NEW LOOPS TO BE CUT INTO COLD PLANED SURFACE AND WIRED INTO EXISTING CONDUITS AT THE CURB LINE.
- NO CHANGES TO THE EXISTING SIGNAL TIMING/ PHASING ARE TO BE MADE AT THIS INTERSECTION.
- AFTER THE NEW LOOP IS INSTALLED, THE INDUCTANCE, RESISTANCE AND LEAKAGE TO GROUND SHALL BE TESTED USING PROPERLY CALIBRATED EQUIPMENT. THE TEST RESULTS SHALL BE COMPARED WITH THE CALCULATED VALUES AND RECORDED ON THE PLANS. ALL LOAD TESTING SHALL BE PERFORMED AS PER VTRANS STANDARD E-172.
- AFTER ACCEPTANCE OF THE LOOP INSTALLATION BY THE RESIDENT ENGINEER RETURN THE SIGNAL TO NORMAL OPERATION. ALL WORK REQUIRED SHALL BE INCIDENTAL TO ITEM 678.22, VEHICLE LOOP DETECTOR.



SUMMARY OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
678.22	VEHICLE LOOP DETECTORS	LF	750

THE LOCATION OF THE SIGNAL/PEDESTRIAN PEDESTALS IS APPROXIMATE. THE LOCATION AND DEPTH OF THE ELECTRICAL CONDUITS ARE UNKNOWN. THE CONTRACTOR MUST TAKE CARE NOT TO DAMAGE THE ELECTRICAL CONDUITS IN THE PROCESS OF COLD PLANING OR CONSTRUCTING SIDEWALK OR PEDESTRIAN RAMPS. ANY DAMAGE INCURRED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.

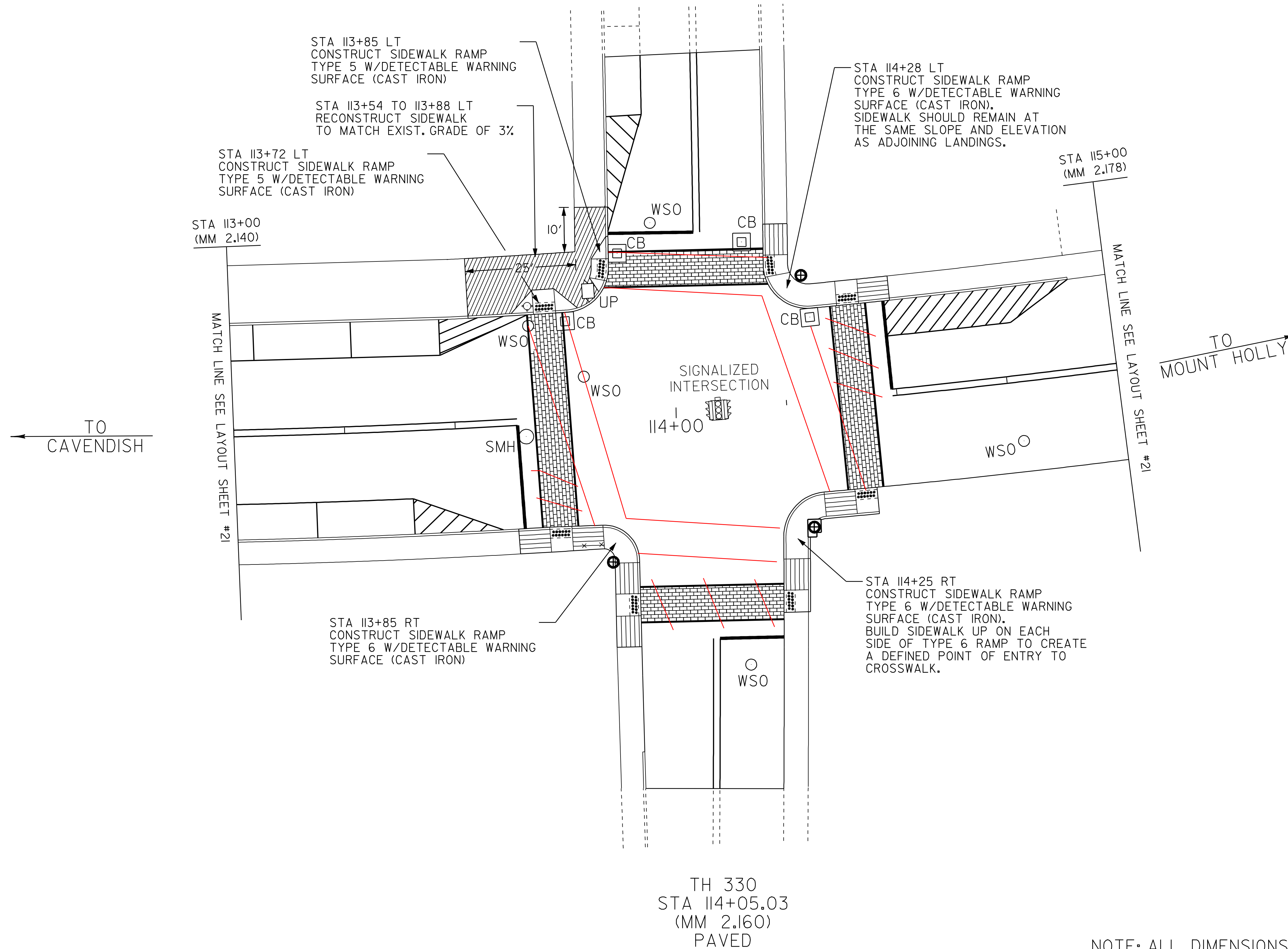
NOT TO SCALE

NOTE: REPLACE ALL EXISTING LOOP DETECTORS WITH NEW LOOPS AT EXISTING LOCATIONS.

LOOP DETECTOR LAYOUT	PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
	DESIGN FILE NAME:	/pave/05B008/pb008.dgn		
	IPARM FILE NAME:	pb008d+02.1		
	SURVEYED BY:	CLD_ENGINEERS, INC	PLOT DATE:	20-MAY-2010 14:3
SQUAD LEADER:	PIS	SURVEY DATE:	11/20/05	
CLD REF. NO.:	05-0389	DRAWN BY:	MRS	
		SHEET:	31	OF 51

CONSTRUCT SIDEWALK RAMP W/DETECTABLE
WARNING SURFACE (CAST IRON)
STA 113+72 LT (TYPE 5)
STA 113+85 LT (TYPE 5)
STA 113+85 RT (TYPE 6)
STA 114+25 RT (TYPE 6)
STA 114+28 LT (TYPE 6)

TH 330
STA 114+05.03
(MM 2.160)
PAVED



TH 330
STA 114+05.03
(MM 2.160)
PAVED

NOTE: ALL DIMENSIONS ARE FEET EXCEPT AS INDICATED

NOT TO SCALE

SIDEWALK DETAIL SHEET	PROJECT:	LUDLOW	PROJECT NO.:	NH_2409(I)S
	DESIGN FILE NAME:	/pave/05B008/pb008.dgn	PLOT DATE:	20-MAY-2010 14:
	IPARM FILE NAME:	pb008d+03.1	SURVEY DATE:	11/2005
	SURVEYED BY:	CLD_ENGINEERS, INC	DRAWN BY:	MRS
	SQUAD LEADER:	PIS		
	CLD_REF. NO.:	05-0389	SHEET:	32 OF 51

TRAFFIC SIGN SUMMARY SHEET #16

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS														REMARKS	SIGN DETAIL									
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL		SFRUITED	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER					
												lb/ft		1.75	2.0	2.5	ANCHOR	SLEEVE	3.0	4.0	4.0 MOD	FOUND-ATION	3.0		3.5	4.0				5.0	FTG. SIZE		WEIGHT	POST SIZE
												1.12	2.0	3.0	1.88	2.16			3.35	1.3	1.7		1.7		lb/ft					24"	30"			
STA 147+04 LT		I	12	18	1.50					I			X		X		X												R7-1					
		I	12	6	0.50																								R7-201					
STA 147+84 LT		I	6	10	0.42					I		X	8.5	X			X													E-138				
STA 148+54 LT		I	12	18	1.50					I			X		X		X												R7-1					
		I	12	6	0.50																								R7-201					
STA 149+65 LT		I	30	30	6.25					I			X		X		X													E-153B				
		I	18	24	3.00																									E-153B				
STA 150+20 RT		I	12	18	1.50					I			X		X		X													R7-1				
		I	12	6	0.50																									R7-201				
STA 150+20 LT		I	12	18	1.50					I			X		X		X													R7-1				
		I	12	6	0.50																										R7-201			
STA 150+27 LT		I	24	18	3.00					I			X		X		X													E-141				
		I	30 24	36 30	7.50 5.00																										E-142			

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY TRAFFIC & SAFETY SECTION'S "SIGN POST DESIGN GUIDELINE."

TOTALS

SF
~~29.17~~
25.67

SF

EA.

SF

FT

~~8~~

~~90~~

~~8~~

~~90~~

FT

~~98~~
85.5

FT

~~98~~

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

EA.

TRAFFIC SIGN SUMMARY SHEET #16

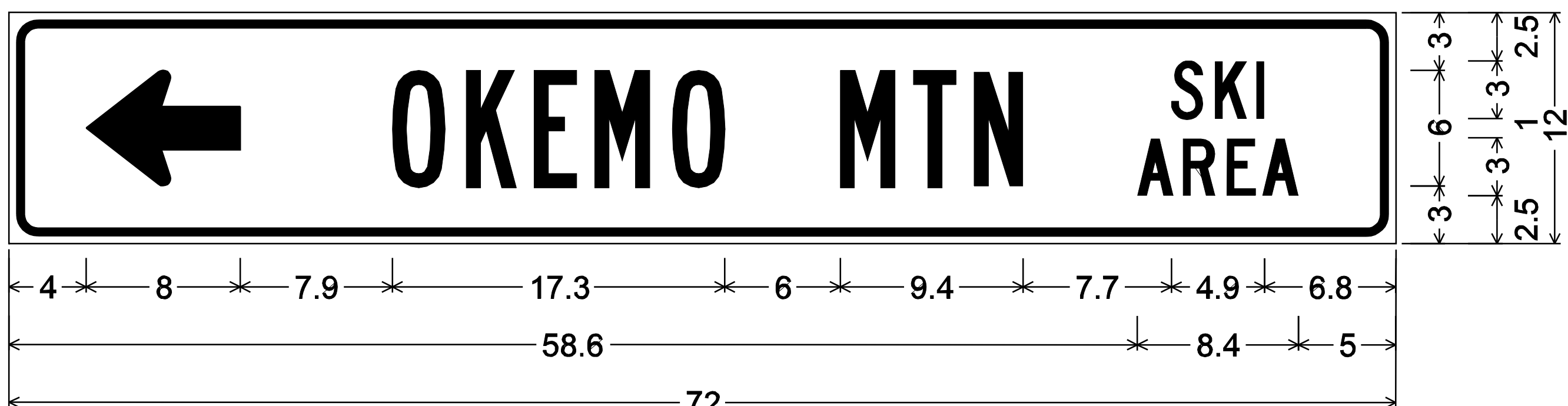
PROJECT NAME: LUDLOW
PROJECT NUMBER: NH_2409(1)S
FILE NAME: /pave/05B008/pb008.dgn PLOT DATE: 20-MAY-2010 14:3
PROJECT LEADER: PIS DRAWN BY: MRS
DESIGNED BY: NLL CHECKED BY: NLL
IPARM_FILE_NAME: pb008ts16.i SHEET 48 OF 51



1.5" Radius, 0.4" Border, 0.4" Indent, White on Green;
 Arrow Custom - 8.0" 90°; [OKEMO MTN] B; [SKI] C; [AREA] C; [1] C;



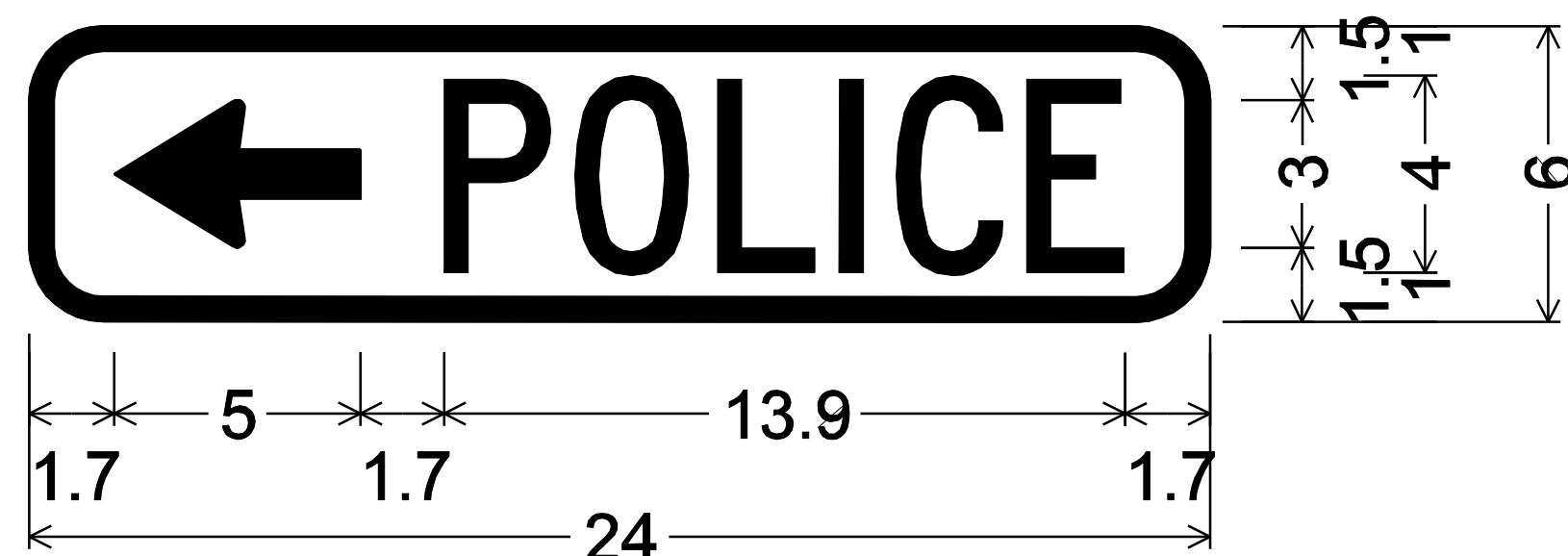
1.5" Radius, 0.4" Border, 0.4" Indent, White on Green;
 Arrow Custom - 8.0" 180°; [OKEMO MTN] B; [SKI] C; [AREA] C; [1] C;



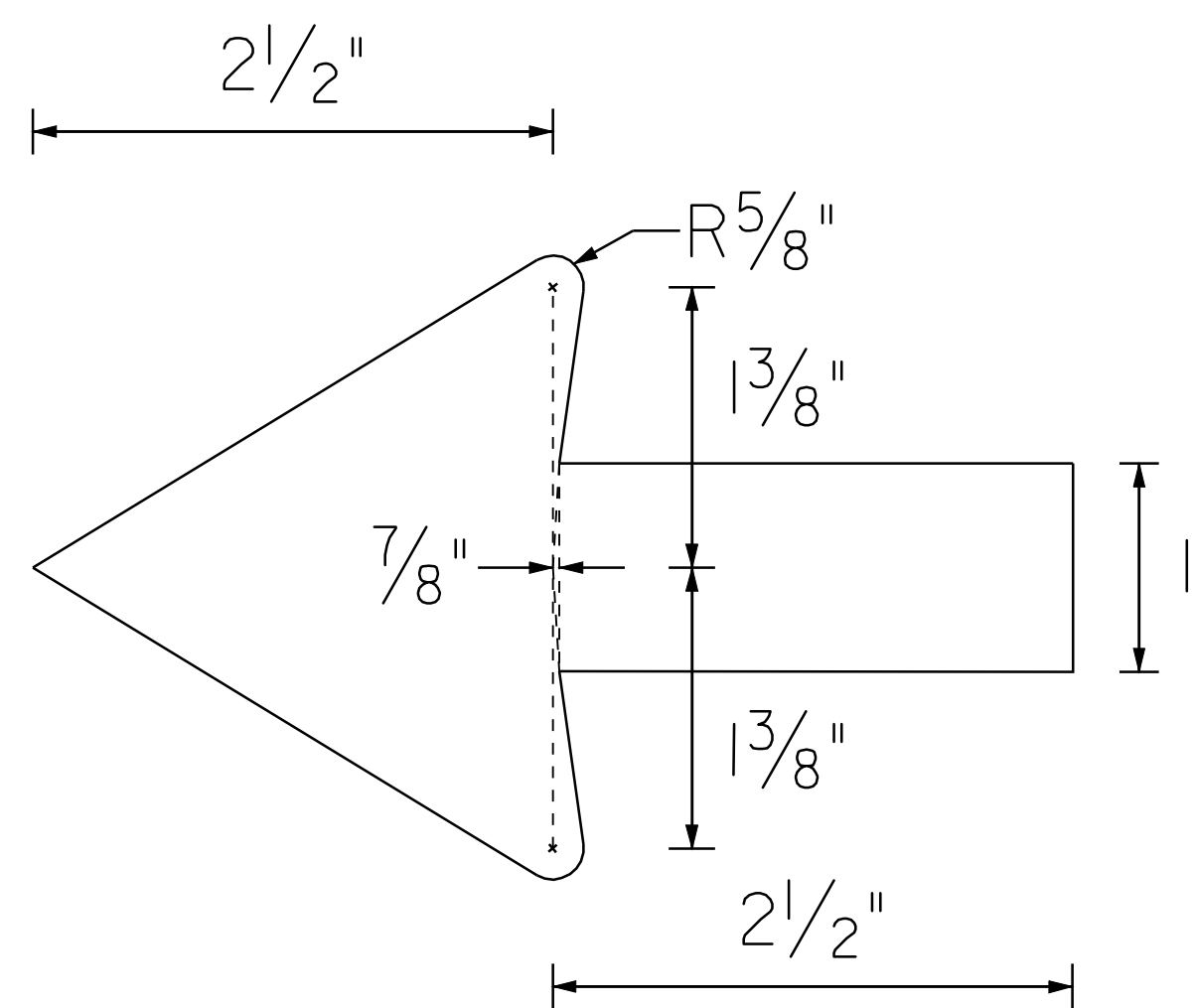
1.5" Radius, 0.4" Border, 0.4" Indent, White on Green;
 Arrow Custom - 8.0" 180°; [OKEMO MTN] B; [SKI] C; [AREA] C;



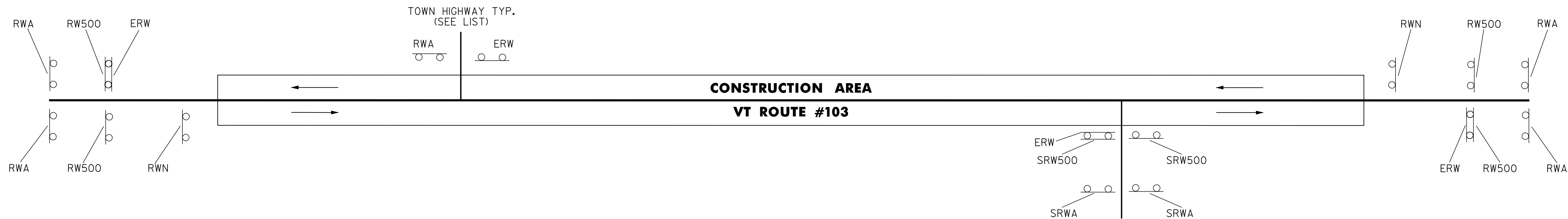
1.5" Radius, 0.4" Border, 0.4" Indent, White on Green;
 [OKEMO MTN] B; [SKI] C; [AREA] C; Arrow Custom - 8.0" 0°;



1.5" Radius, 0.5" Border, White on Blue;
 Standard Arrow Custom 5.0" X 3.0" 180°;
 [POLICE] C 70% spacing;



SIGN DETAIL SHEET	PROJECT: <u> _LUDLOW </u>	PROJECT NO.: <u> NH 2409(1)S </u>
	DESIGN FILE NAME: /pave/05B008/pb008.dgn	PLOT DATE: 20-MAY-2010 14:
	IPARM FILE NAME: pb008sd.i	SURVEY DATE: 12204_____
	SURVEYED BY: CLD_____	DRAWN BY: MRS_____
	SQUAD LEADER: PIS_____	
	CLD_05-0389_____	SHEET: 50 OF 51



CONSTRUCTION APPROACH SIGNING

NOT TO SCALE

STATE HIGHWAY TYP
(SEE LIST)

SEE STANDARD E-100 FOR SIGN PLACEMENT.

NOTE:

1. WHEN DIRECTED BY THE RESIDENT ENGINEER, "NO OUTLET" SIDE ROADS WILL NOT REQUIRE CONSTRUCTION SIGNING.
2. PAYMENT FOR CONSTRUCTION APPROACH SIGNING WILL BE MADE UNDER ITEM 641.10, TRAFFIC CONTROL.

LIST OF TOWN/STATE HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	ROAD WORK NEXT 2 MILES	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500'	OTHER
LUDLOW							
TH #320	1	1					
TH #324	1	1					
TH #316	1	1					
SA #04	1	1					
TH #326	1	1					
TH #314	1	1					
TH #328	1	1					
TH #330 LT	1	1					
TH #330 RT	1	1					
VT #100		1			2	2	
TH #356	1	1					
TH #360	1	1					
TH #362	1	1					
TH #364	1	1					
SA #03	1	1					
TH #363	1	1					
BEGINNING OF PROJECT	2	1	2	1			
END OF PROJECT	2	1	2	1			
TOTAL	19	18	4	2	2	2	

LEGEND

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500'
- RWN = ROAD WORK NEXT 2 MILES
- ERW = END ROAD WORK
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500'
- = DIRECTION OF TRAVEL

CONSTRUCTION APPROACH SIGNING

PROJECT:	<u> _LUDLOW </u>	PROJECT NO.:	<u> NH 2409(1)S </u>
DESIGN FILE NAME:	<u> /pave/05B008/pb008.dgn </u>	PLOT DATE:	<u> 20-MAY-2010 14: </u>
IPARM FILE NAME:	<u> pb008cs.i </u>	SURVEY DATE:	<u> 01/05 </u>
SURVEYED BY:	<u> CLD_ENGINEERS, INC </u>	DRAWN BY:	<u> MRS </u>
SQUAD LEADER:	<u> PIS </u>	SHEET:	<u> 51 </u> OF <u> 51 </u>
CLD REF. NO.:	<u> 05-0389 </u>		