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STATE OF VERMONT  
AGENCY OF TRANSPORTATION

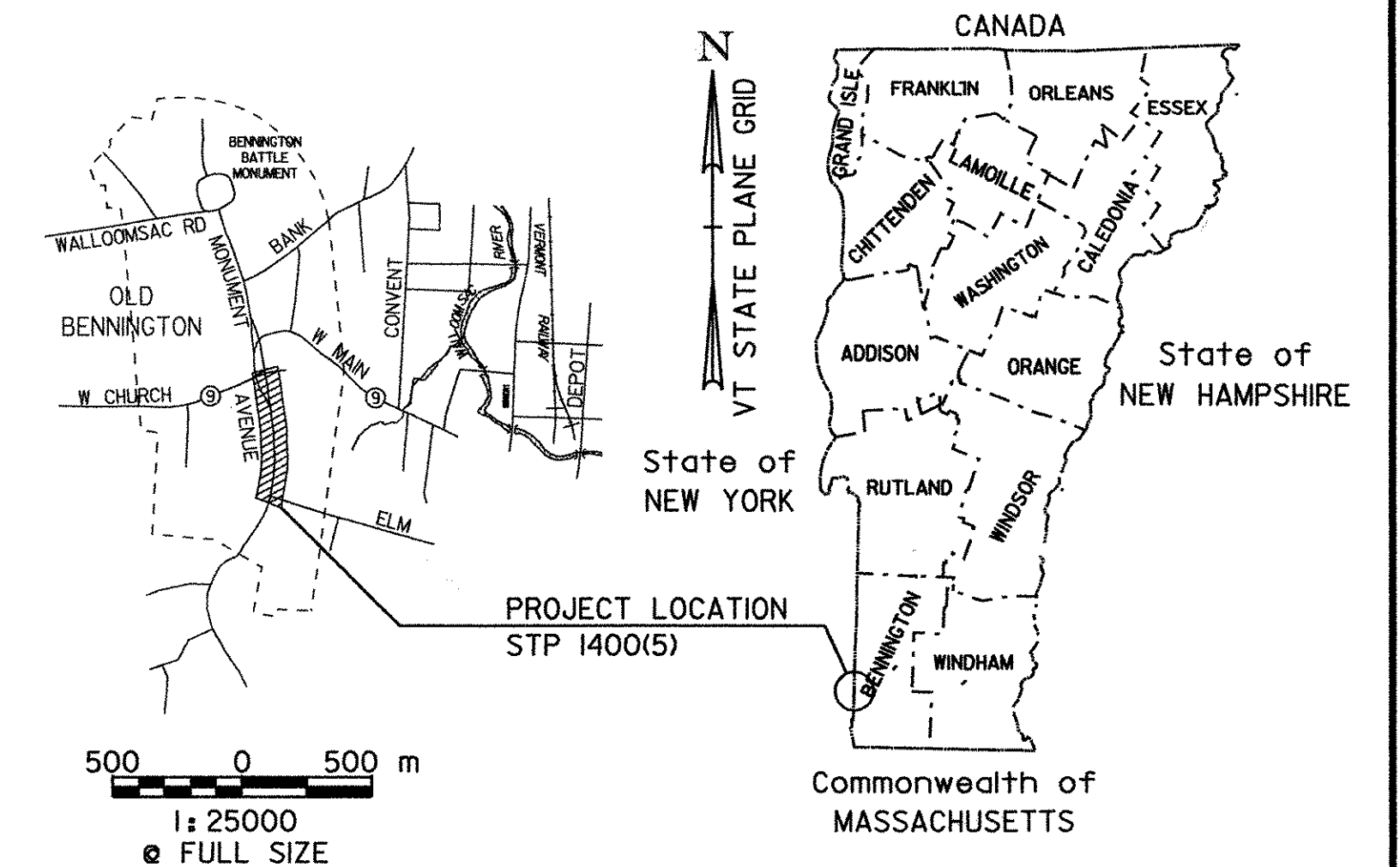


PROPOSED IMPROVEMENT  
VILLAGE OF OLD BENNINGTON  
COUNTY OF BENNINGTON  
MONUMENT AVENUE  
STP 1400(5)

BEGINNING AT THE INTERSECTION OF MONUMENT AVENUE (T.H. 2) AND ELM STREET AND EXTENDING NORTHERLY ALONG MONUMENT AVENUE FOR APPROXIMATELY 337 m.

LENGTH OF ROADWAY 337.000 m (0.209 MILE)  
LENGTH OF PROJECT 337.000 m (0.209 MILE)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES RECONSTRUCTION OF AN URBAN ROADWAY ON AN EXISTING LOCATION INCLUDING GRADING, PAVEMENT, SUBBASE, DRAINAGE, AND LIMITED STREET LIGHTING IMPROVEMENTS.



TRAFFIC DATA

2006 ADT = 2500  
2026 ADT = 2900  
2026 ADTT = 29  
2026 DHV = 360  
T = 1%  
D = 54%  
V = 40 km/h  
2006 ~ 2026 CUM. ESALS = 209,000  
2006 ~ 2046 CUM. ESALS = 468,000  
URBAN COLLECTOR

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE / DESIGN LIFE ESAL	112,860
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADED ASPHALT BINDER	PG 58-28

RECORD PLANS

CONTRACTOR: PETRICCA CONSTRUCTION CO. - PITTSFIELD, MA

RESIDENT ENGINEER: RON LEMAIRE

CONSTRUCTION BEGAN: APRIL 14, 2006

CONSTRUCTION COMPLETE: OCTOBER 5, 2006

RECORD PLANS BY: RON LEMAIRE & C. PIERCE

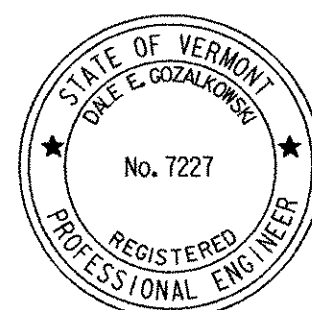
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY *Ronald Lemaire* RESIDENT ENGINEER  
DATE 02/22/08

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.

CONVENTIONAL SIGNS

- 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

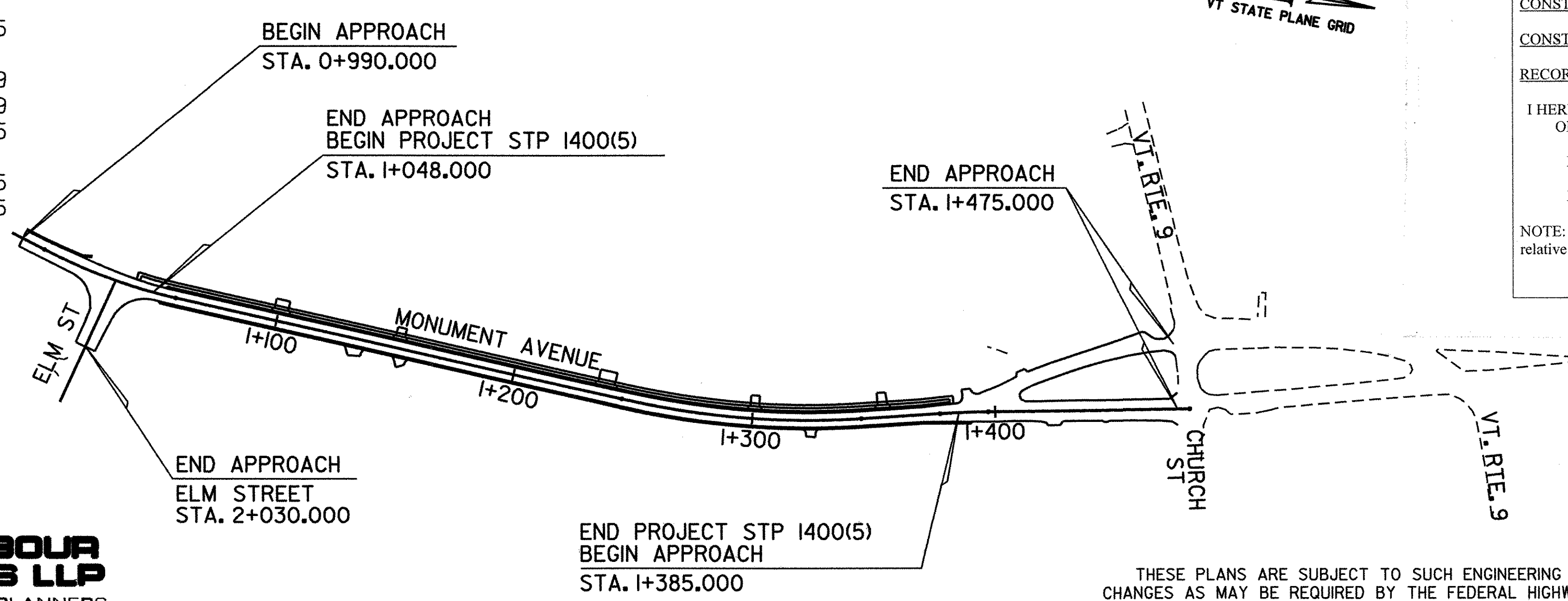


PLANS PREPARED BY

**CHA** CLOUGH, HARBOUR & ASSOCIATES LLP  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
111 WINNERS CIRCLE ALBANY, NEW YORK, 12205  
P.O. BOX 5269 518-453-4500

BY

DATUM  
VERTICAL N/A  
HORIZONTAL NAD 83 (1996)



50 0 50 m  
1:1500  
e FULL SIZE

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 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

p97d228 ts. i  
/pave/97d228/p97d228.dgn



UNLESS NOTED OTHERWISE  
STATIONS ARE IN KILOMETERS  
ELEVATIONS ARE IN METERS  
DIMENSIONS ARE IN MILLIMETERS

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATOR

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED *Ronald Lemaire* DATE 11-28-05

PROJECT MANAGER :

PROJECT NAME : OLD BENNINGTON  
PROJECT NUMBER : STP 1400(5)

SHEET 1 OF 48 SHEETS









## DRAINAGE STRUCTURES

STATION km + m	STATION km + m	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS							PIPE ELBOW NO. DEG	E S	PRC CB (MOD.) EA	PRC CB (MOD.) 2) EA	P R C D I	DEPTH DI mm	CONC CL B m <sup>3</sup>	REINF STEEL kg	GRATE TYPE	CHAN ELEV EA	CRM m <sup>3</sup>	TRENCH EXCAVATION		COMM EXC m <sup>3</sup>	UNC CHAN EXC m <sup>3</sup>	STRUCT EXCAV m <sup>3</sup>	GRAN BK FILL STRUCT m <sup>3</sup>	GRAN BORR m <sup>3</sup>	GEO FABRIC m <sup>2</sup>	STONE FILL		MARKER POSTS		REMARKS
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CPEP	CPEP (SL)	PCCSP PI mm	EARTH m <sup>3</sup>												ROCK m <sup>3</sup>	m <sup>3</sup>							m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	
I+049.7	I+052.3	RT		(RCDI)																																	REMOVE EXISTING 1.5 m x 1.5 m DI & 600 mm CMP.						
I+049.7	I+052.2	RT		CB	ES	X			600	6.6		1.63	1.52	III	X	X																				INSTALL CB WITH TYPE D FRAME & GRATE. INSTALL 600 mm PIPE TO OUTLET INTO DITCH WITH A STONE PAD. INSTALL 30F SNOUT OVER PIPE INLET.							
I+052.2	I+054.0	RT/LT		RCDI	CB				600	7.5				III		X																				CONSTRUCT RCDI WITH TYPE D FRAME & GRATE. INSTALL 600 mm PIPE TO OUTLET INTO CB.							
I+052.3	I+056.3	RT/LT		(ES)	(RCDI)																															REMOVE EXISTING 1.5 m x 1.5 m DI & 600 mm CMP AT INLET & OUTLET.							
I+054.0	I+056.3	LT		ES	RCDI	X			600	8.1		1.63	1.52	III	X	X																				INSTALL 600 mm PIPE TO OUTLET INTO RCDI.							
I+054.0	I+107.0	LT		RCDI	RCDI				450	53				III		X																				CONSTRUCT RCDI WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.							
I+185.0	I+227.0	LT		RCDI	CB				450	42	1.63	1.52	III	X	X																					CONSTRUCT RCDI WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO CB.							
I+224.4	I+227.0	RT/LT		CB	ES				450	15	1.63	1.52	III	X	X																					INSTALL CB WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET TO SLOPE WITH A STONE PAD. INSTALL 24F SNOUT OVER PIPE INLET.							
I+224.4	I+227.4	RT/LT		(RCDI)																																	REMOVE EXISTING 1.2 m x 1.5 m DI & 450 mm CMP.						
I+229.8	I+233.4	RT		(RCDI)																																	REMOVE EXISTING 1.2 m x 1.5 m DI & 450 mm CMP.						
I+229.8	I+233.4	RT		CB	ES				450	10	1.63	1.52	III	X	X																					INSTALL CB WITH TYPE D FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET TO SLOPE WITH A STONE PAD. INSTALL 24F SNOUT OVER PIPE INLET.							
I+233.4	I+335.8	RT		(RCDI)	(RCDI)																																REMOVE EXISTING 1.2 m x 1.2 m DI & 450 mm RCP.						
I+233.4	I+307.0	RT		RCDI	CB				450	73	1.63	1.52	III	X	X																					CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO CB.							
I+307.0	I+307.0	LT/RT		RCDI	RCDI				450	6.1	1.63	1.52	III	X	X																					CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.							
I+307.0	I+384.0	RT		RCDI	RCDI				450	76.6	1.63	1.52	III	X	X																					CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.							
I+335.8	I+339.3	RT/LT		(RCDI)	(RCDI)																																REMOVE EXISTING 1.2 m x 1.2 m DI & PLUG 450 mm CMP WITH CONCRETE						
I+384.0	I+384.0	LT/RT		RCDI	RCDI				450	6.4	1.63	1.52	III	X	X																					CONSTRUCT RCDI WITH TYPE E FRAME & GRATE. INSTALL 450 mm PIPE TO OUTLET INTO RCDI.							
TOTALS									450	232	1.63	1.52	III	X	X					2	1	2														12.6	2	1	3				
									450	53				III		X																											
									600	16	1.63	1.52	III	X	X					2																							
									600	6				III		X																											
										22.2																																	

### VERMONT AGENCY OF TRANSPORTATION

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

FILE NAME: /pave/97d228/p97d228.dgn  
PROJECT LEADER: I.P.K.  
DESIGNED BY: J.S.P.  
p97d228ds.i

PLOT DATE: 05-MAY-2008 14:  
DRAWN BY: C.A.K.  
CHECKED BY: D.E.G.  
SHEET 6 OF 48

NOTE:  
AN ESTIMATED QUANTITY OF ITEM 204.30 GRANULAR BACKFILL FOR STRUCTURES HAS BEEN INCLUDED FOR USE IN LOCATIONS AS DIRECTED BY THE RESIDENT ENGINEER.

																				SUMMARY AND BALANCES																																
		TOTAL EXCAVATION EARTH AND ROCK		*ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		*ROCK EXCAVATION		EMBANKMENT						TOTAL EXCAVATION EARTH AND ROCK		*ROCK EXCAVATION		EMBANKMENT						STATION TO STATION		TOTAL EXC. EARTH+ROCK	ROCK EXCAVATION	EMBANKMENT	EXCESSES		ACCUMULATIVE EXCESSES													
STATION km + m	DIST m	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	STATION km + m	DIST m	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	STATION km + m	DIST m	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	STATION km + m	DIST m	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	AREA m <sup>2</sup>	VOLUME m <sup>3</sup>	CUT	FILL	CUT	FILL											
MONUMENT AVE.										STREET LIGHTING										1+040	1+200	1046				1046		1046																								
1+040	8	1	12	0	0	0	0					70	0	0	0	C	70																																			
1+048	12	2	54	0	0	0	0	C	1046																																											
1+060	20	7	140	0	0	0	0	FAC	1.00																																											
1+080	20	7	140	0	0	0	0	R	0																																											
1+100	20	7	140	0	0	0	0	FAC	1.00																																											
1+120	20	7	140	0	0	0	0	EXC	1046																																											
1+140	20	7	140	0	0	0	0																																													
1+160	20	7	140	0	0	0	0																																													
1+180	20	7	140	0	0	0	0																																													
1+200	20	7	140	0	0	0	0																																													
1+220	20	7	130	0	0	0	0																																													
1+240	20	6	120	0	0	0	0	C	1215																																											
1+260	20	6	120	0	0	0	0	FAC	1.00																																											
1+280	20	7	130	0	0	0	0	R	0																																											
1+300	20	7	130	0	0	0	0	FAC	1.00																																											
1+320	20	6	120	0	0	0	0	EXC	1215																																											
1+340	20	7	140	0	0	0	0																																													
1+360	20	7	150	0	0	0	0																																													
1+380	5	8	25	0	0	0	0																																													
1+385	5	2	10	0	0	0	0																																													
1+390	2	2	0	0	0	0	0																																													
ROADSIDE DRAINAGE																				REMARKS																																
			603		41		0	C	603																																											
								FAC	1.00																																											
								R	41																																											
								FAC	1.00																																											
								EXC	603																																											
UNDERDRAIN																																																				
			457		0		0	C	457																																											
								FAC	1.00																																											
								EXC	457																																											
COLUMN FOOTING										COLUMN FOOTING																																										
			3321		41		0					70	0	0																																						

**VERMONT AGENCY OF TRANSPORTATION**

<p><b>CHA</b> CLOUGH, HARBOUR &amp; ASSOCIATES ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS WINNERS CIRCLE ALBANY, NEW YORK, 02009</p>	PROJECT NAME: <u>OLD BENNINGTON</u>	PLOT DATE: 05-MAY-2008 14:
	PROJECT NUMBER: <u>STP 1400(5)</u>	DRAWN BY: <u>C.A.K.</u>
	FILE NAME: /pave/97d228/p97d228.dgn	CHECKED BY: <u>D.E.G.</u>
	PROJECT LEADER: <u>I.P.K.</u>	SHEET <u>7</u> OF 48

# TYPICAL SECTION - MONUMENT AVENUE

MATERIAL ITEM	THICKNESS	TOLERANCE
PAVEMENT (TOTAL DEPTH)	± 5	
BASE COURSE	± 15	
SUBBASE	± 30	

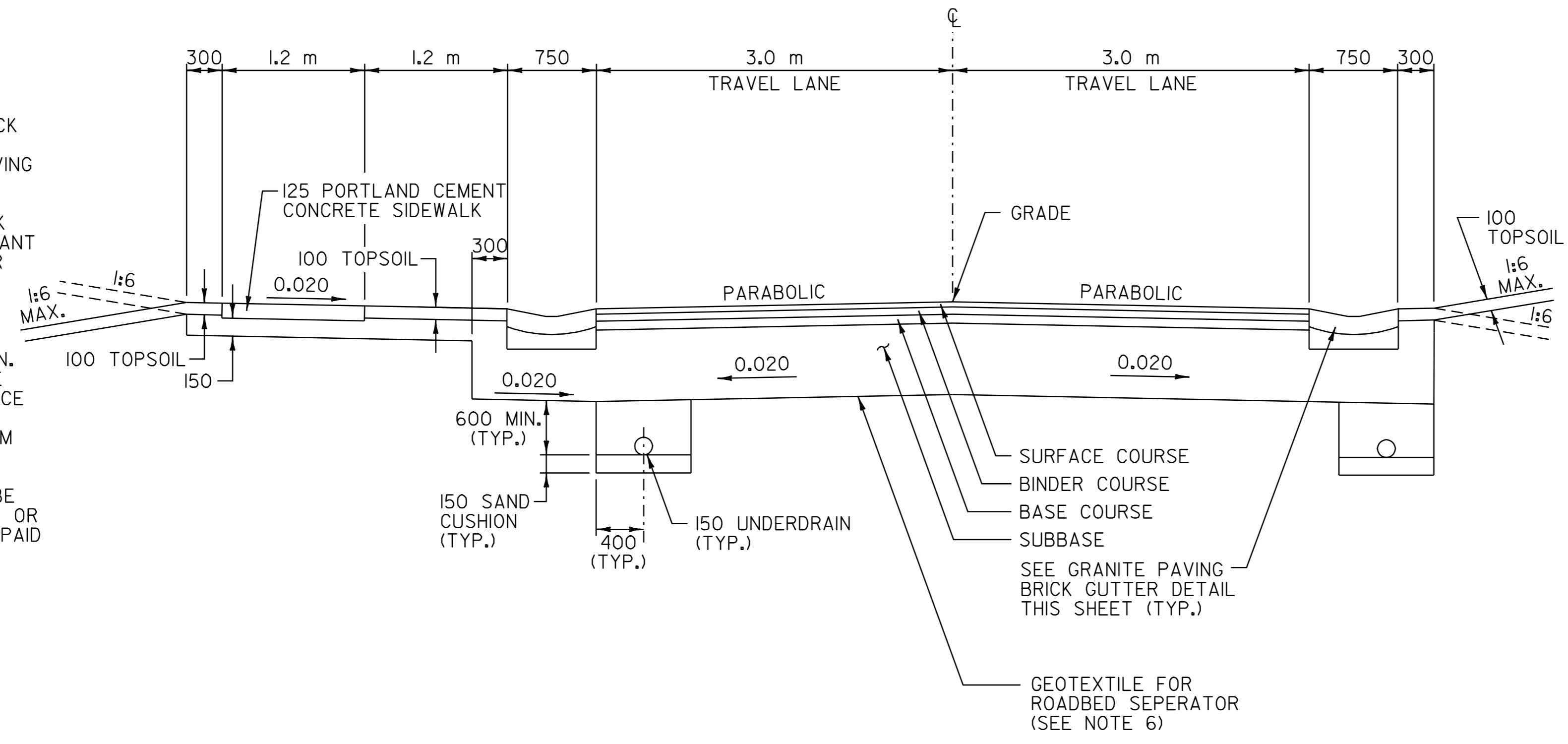
- 45 SURFACE COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28), TYPE IIIS
- 60 BINDER COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28), TYPE IIS
- 75 BASE COURSE, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28), TYPE IS
- 600 SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)

## SEEDING FORMULA URBAN AREAS

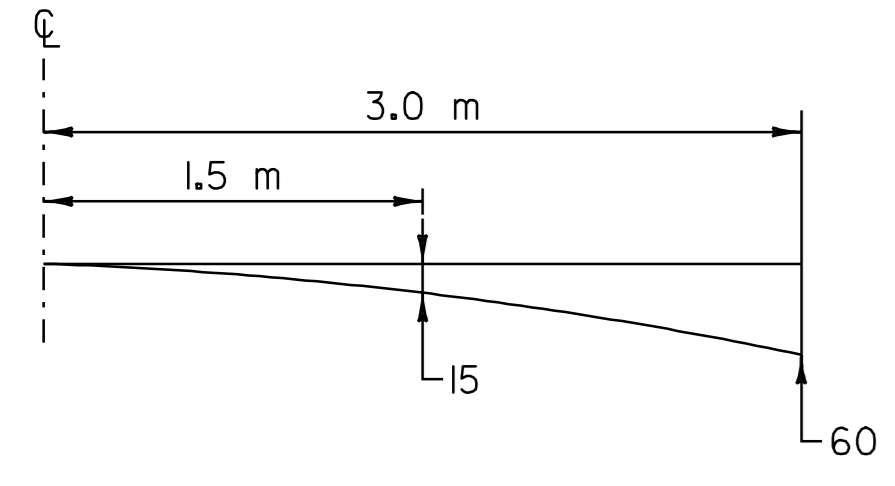
% MASS	kg/ha	NAME	PUR %	GERM %
42.5	38.0	CREeping RED FESCUE	98	85
10.0	9.0	PERENNIAL RYE GRASS	95	90
42.5	38.0	KENTUCKY BLUE GRASS	85	85
5.0	5.0	ANNUAL RYE GRASS	95	85
100.0	90.0			

- NOTES:
- AT DRIVES IN SIDEWALK LOCATIONS, THE AREA BETWEEN THE GUTTER AND SIDEWALK SHALL BE PAVED WITH 45 mm SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28), TYPE IIIS THROUGH THE DRIVE AND A MINIMUM OF 900 mm EACH SIDE OF SPECIFIED DRIVE WIDTH.
  - VARIATIONS IN GRANITE PAVING BRICK HEIGHT SHALL BE ACCOMMODATED WITHIN THE DEPTH OF THE MORTAR BED.
  - ALL WORK TO CONSTRUCT GRANITE PAVING BRICK GUTTERS ABOVE LIMITS OF CONCRETE, CLASS B TO BE PAID FOR UNDER ITEM 618.20 BRICK PAVING (SEE SPECIAL PROVISIONS).
  - TRANSVERSE JOINTS FOR GRANITE PAVING BRICK GUTTERS AS SHOWN IN THE SAWCUT AND SEALANT DETAIL SHALL BE CUT TO EDGE OF GUTTER OR AS DIRECTED BY THE RESIDENT ENGINEER.
  - VERTICAL GRANITE CURB REMOVED DURING EXCAVATION FOR THIS PROJECT SHALL BE RETURNED TO THE VILLAGE OF OLD BENNINGTON. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING VERTICAL GRANITE CURB IN ACCORDANCE WITH SUBSECTION 616.11 OF THE STANDARD SPECIFICATIONS. PAYMENT IS INCIDENTAL TO ITEM 203.10 COMMON EXCAVATION.
  - GEOTEXTILE FOR ROADBED SEPERATOR SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 649.II.

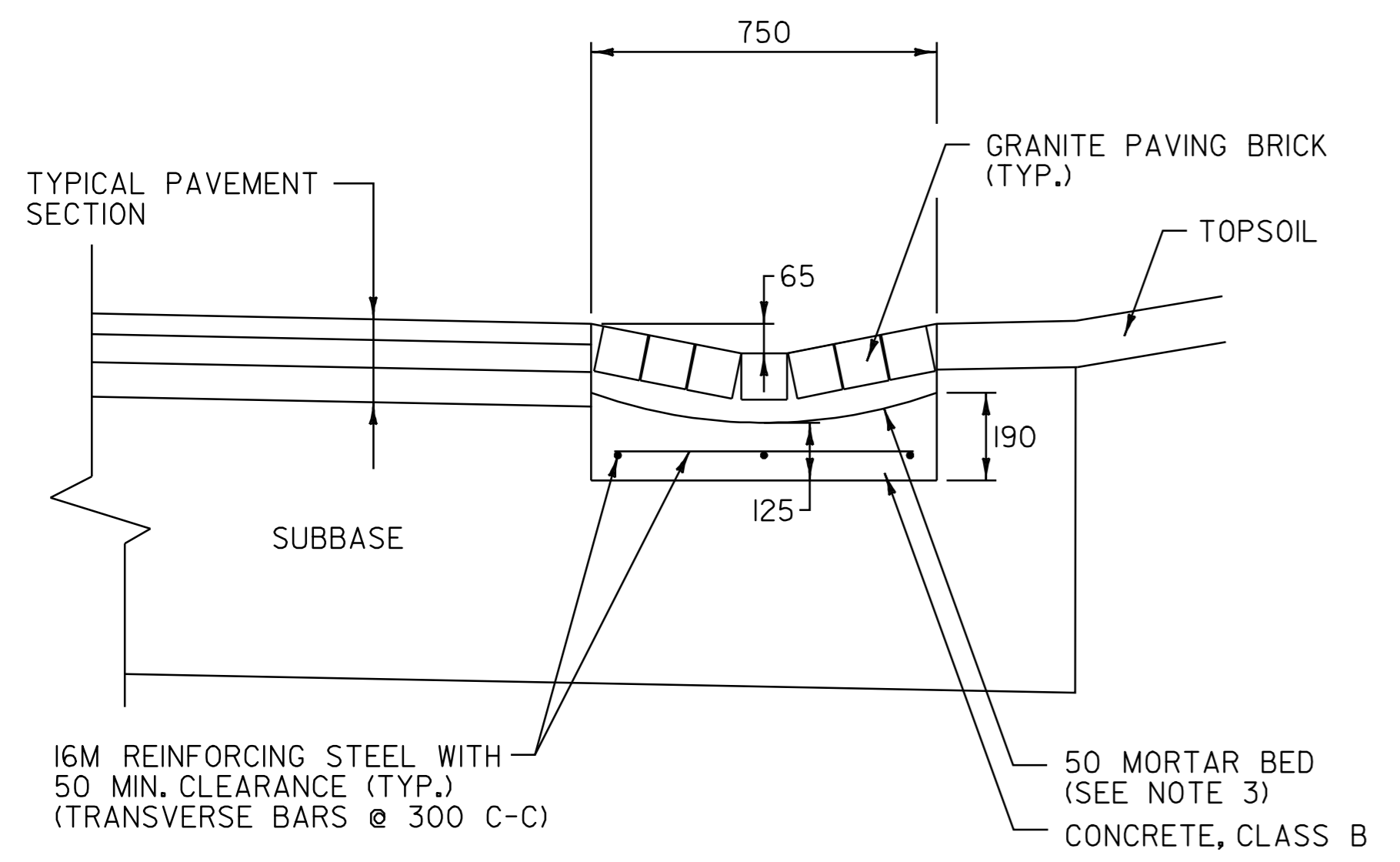
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.12 L/m BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE RESIDENT ENGINEER.



- GENERAL NOTES
- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS 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 AND APPLIED AT THE RATE OF 560 kg/ha (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
  - AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 4500 kg/ha OR AS DIRECTED BY THE RESIDENT ENGINEER.
  - HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha 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.
  - MARKER POSTS: TO BE PLACED AT PIPE INLET AND OUTLET LOCATIONS ONLY.
  - SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.
  - PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN, SEE STANDARD SHEET D-2M.

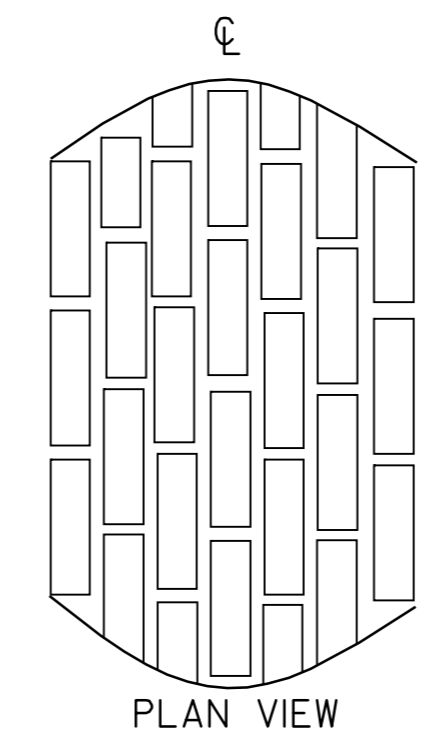
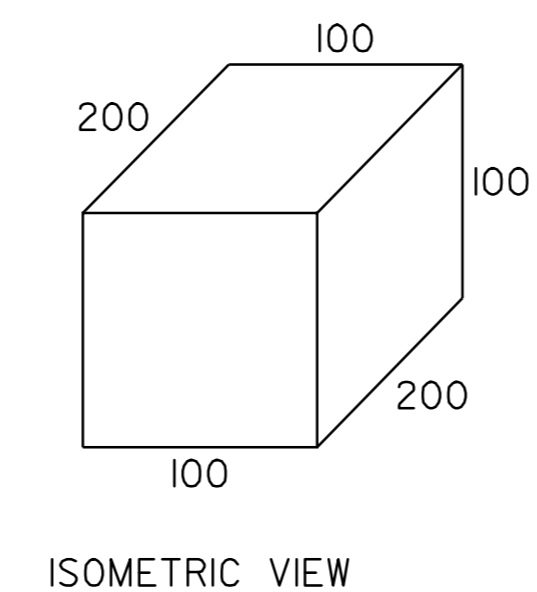
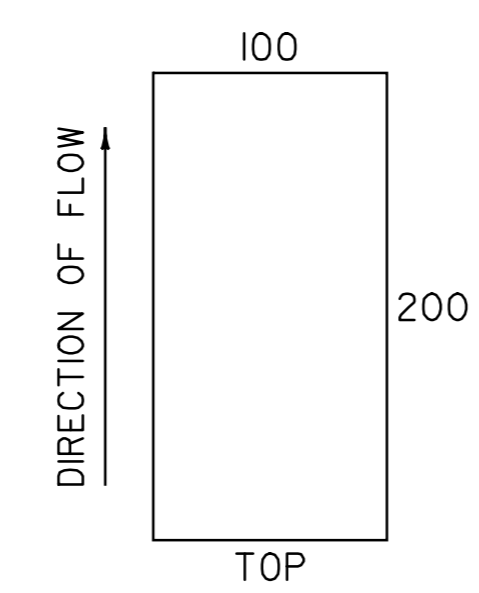
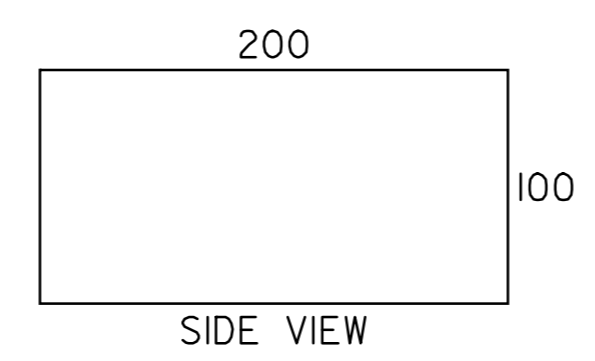


### PARABOLIC DETAIL



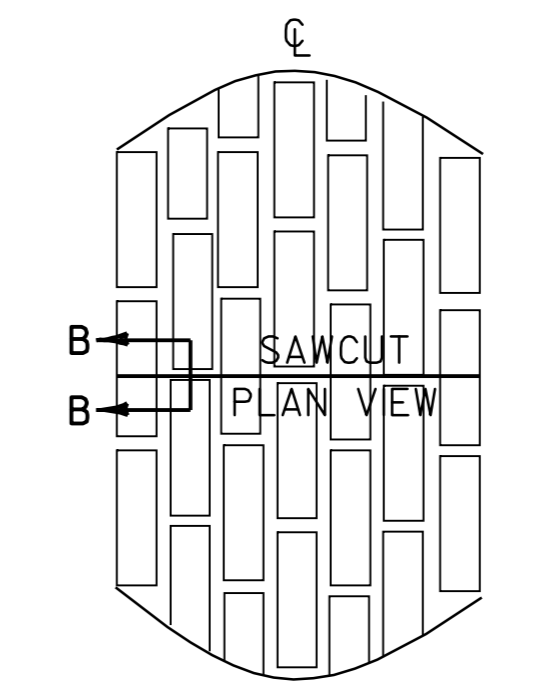
### GRANITE PAVING BRICK GUTTER DETAIL

N.T.S.

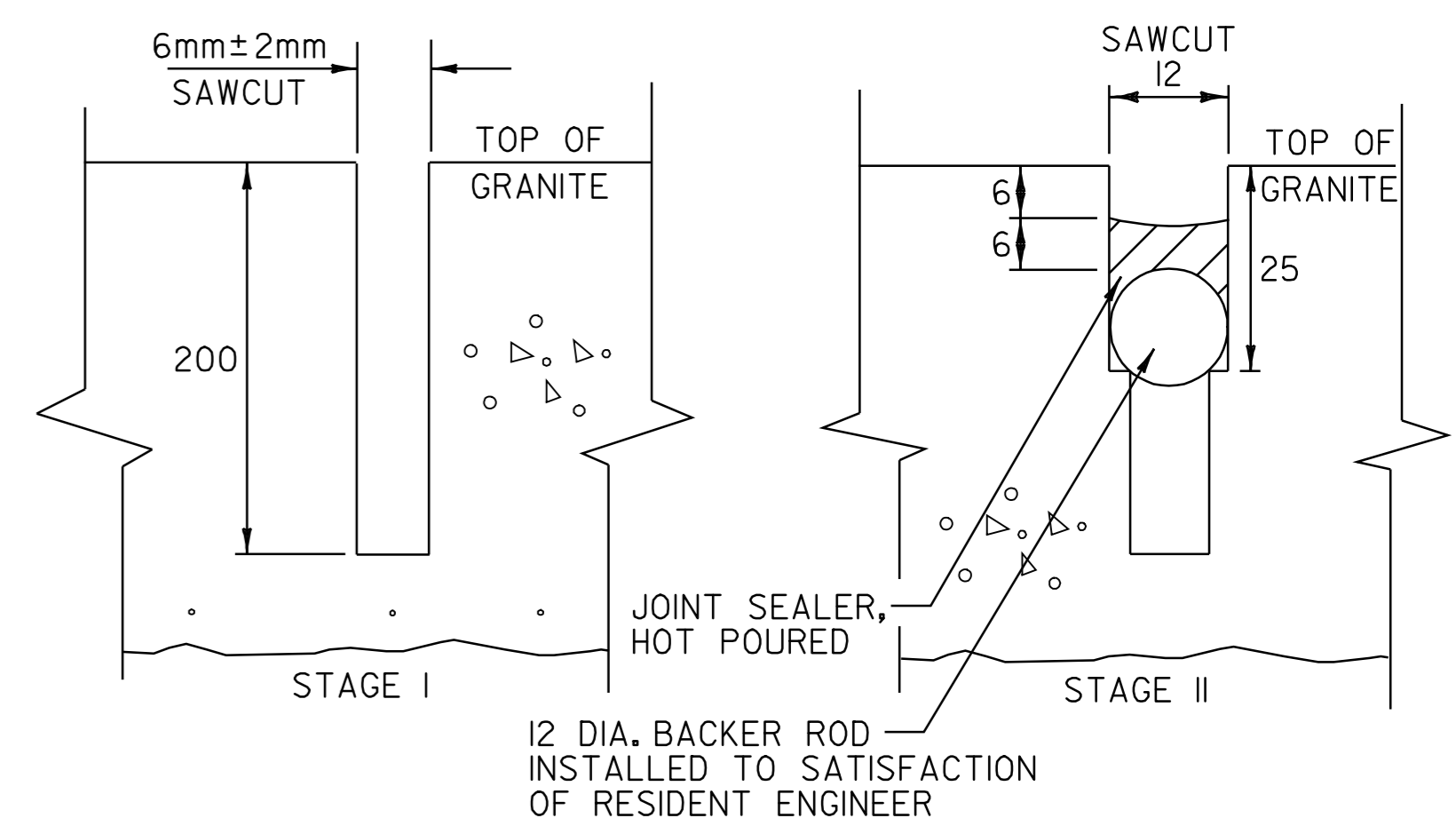


### GRANITE PAVING BRICK DETAIL

N.T.S.



SAWCUT EVERY 12-18 m OR AS DIRECTED BY THE RESIDENT ENGINEER



### DETAIL B-B

### SAWCUT AND SEALANT DETAIL FOR GRANITE PAVING BRICK GUTTERS

N.T.S.

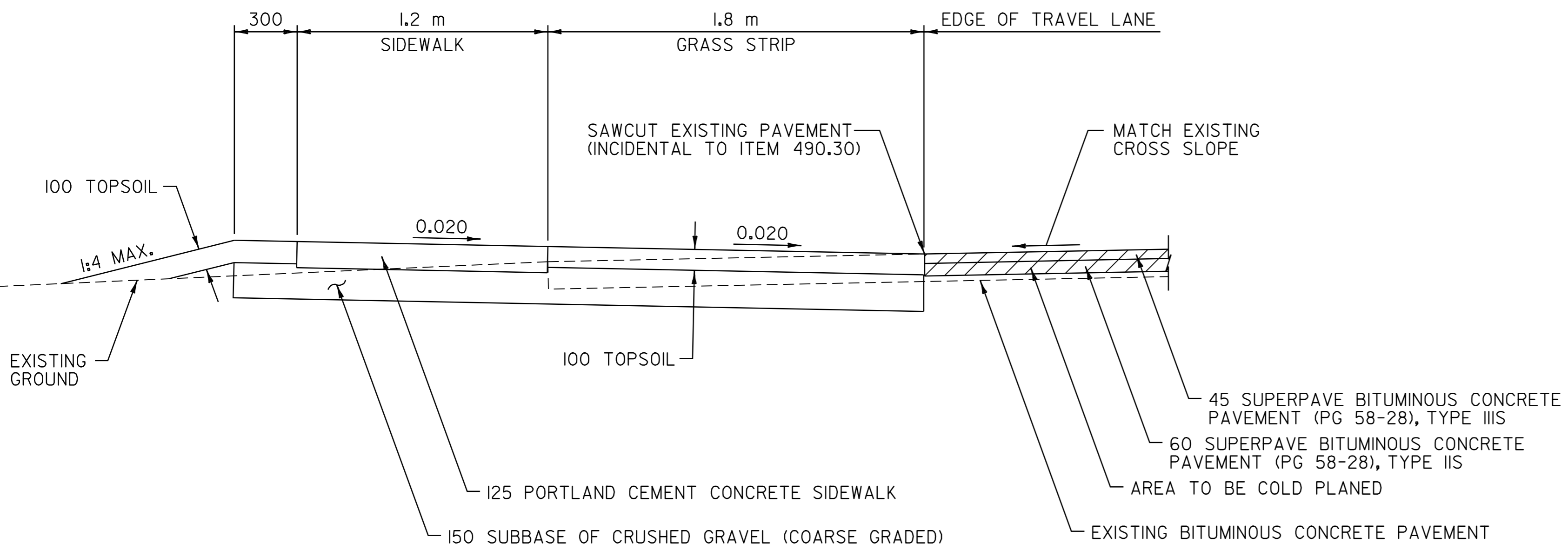
ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED

# TYPICAL SECTION SHEET

## VERMONT AGENCY OF TRANSPORTATION

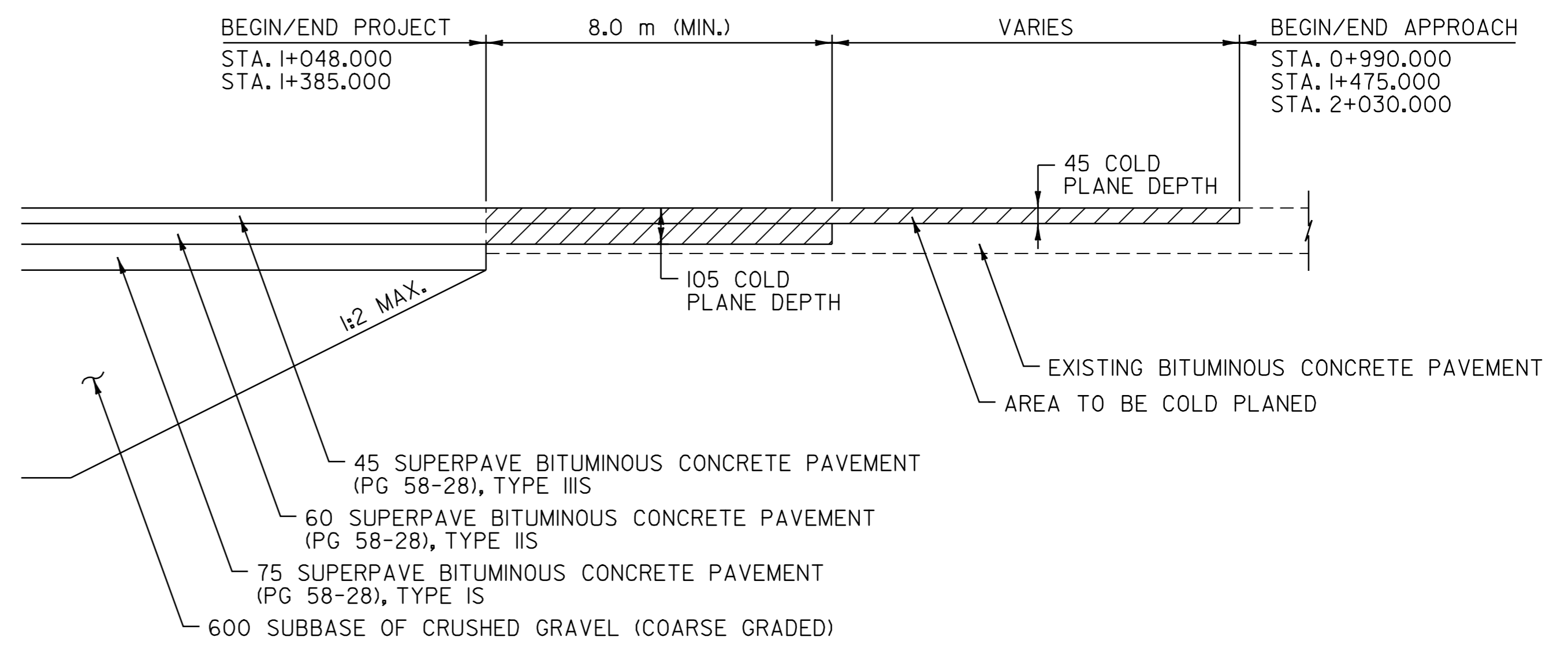
<b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small> <small>MEMBERS: CIVIL ENGINEERS, PROFESSIONAL LANDSCAPE ARCHITECTS</small> <small>100 WASHINGTON STREET, ALBANY, NEW YORK, 12208</small>	PROJECT NAME: <u>OLD BENNINGTON</u> PROJECT NUMBER: <u>STP 1400(5)</u>	PLOT DATE: <u>05-MAY-2008 14</u>
	FILE NAME: <u>/pave/97d228/p97d228.dgn</u> PROJECT LEADER: <u>J.E.K.</u> DESIGNED BY: <u>J.S.P.</u> p97d228.tps.i	DRAWN BY: <u>C.A.K.</u> CHECKED BY: <u>D.E.G.</u> SHEET <u>8</u> OF 48

DATUM	
VERTICAL	<u>N/A</u>
HORIZONTAL	<u>NAD_83_(1996)</u>



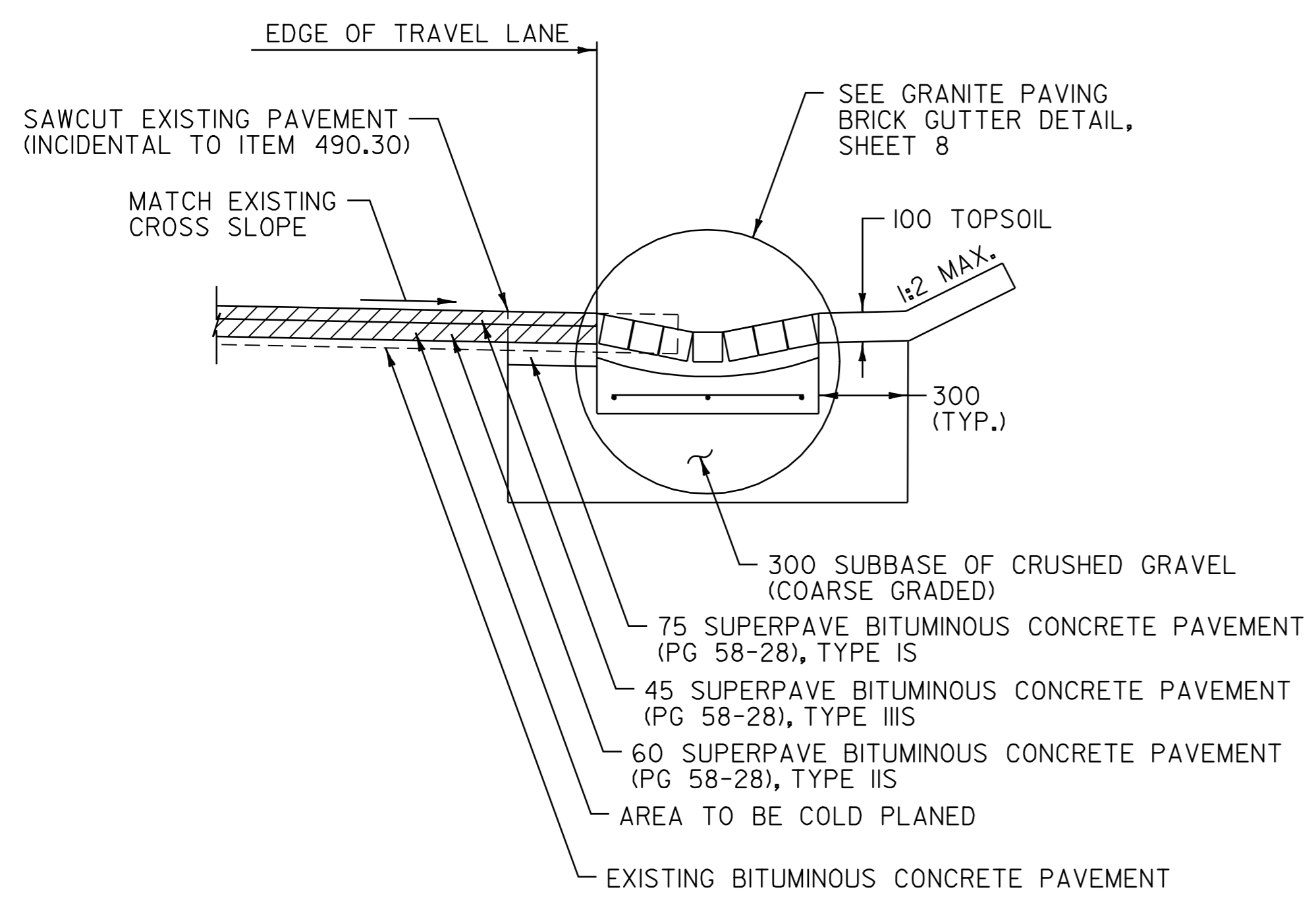
**SIDEWALK DETAIL**

N.T.S.  
STA. 1+040 - STA. 1+048



**PAVEMENT TERMINATION DETAIL**

N.T.S.  
STA. 1+048.000  
STA. 1+385.000



**GRANITE PAVING BRICK GUTTER DETAIL**

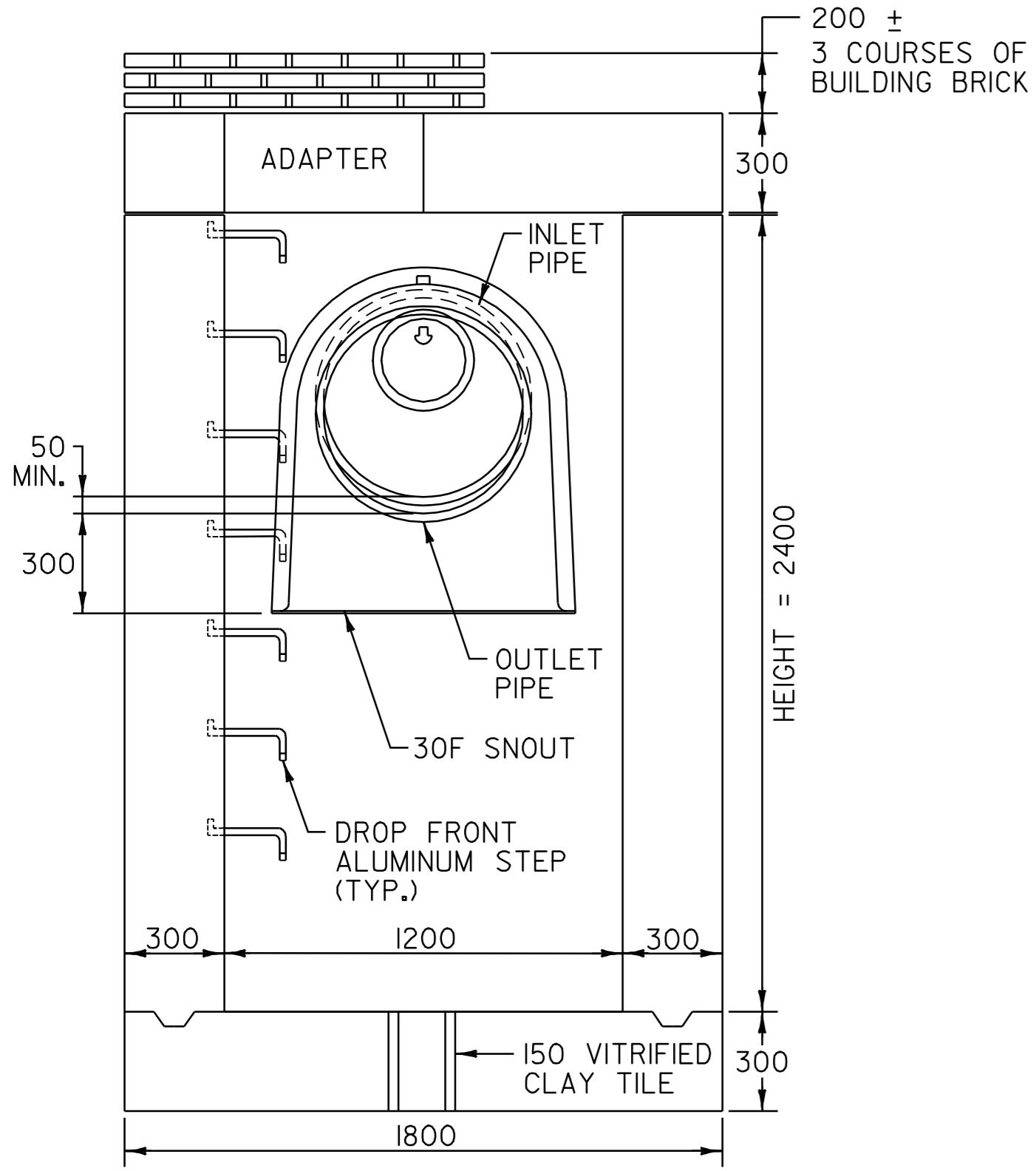
N.T.S.  
STA. 0+990 - STA. 1+019 LT  
STA. 1+385 - STA. 1+390 RT

ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED

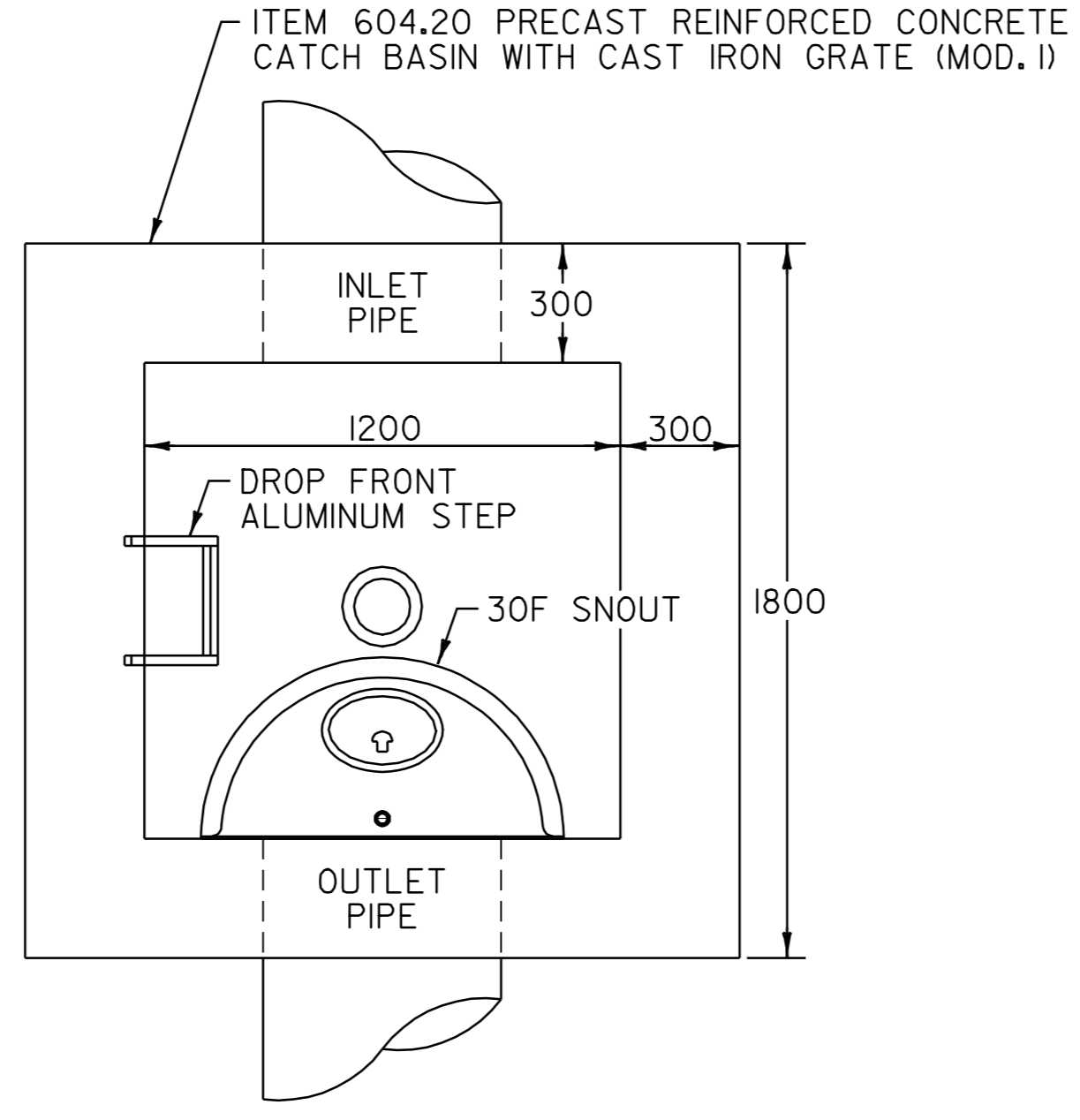
**MISC. DETAIL SHEET # 1**

**VERMONT AGENCY OF TRANSPORTATION**

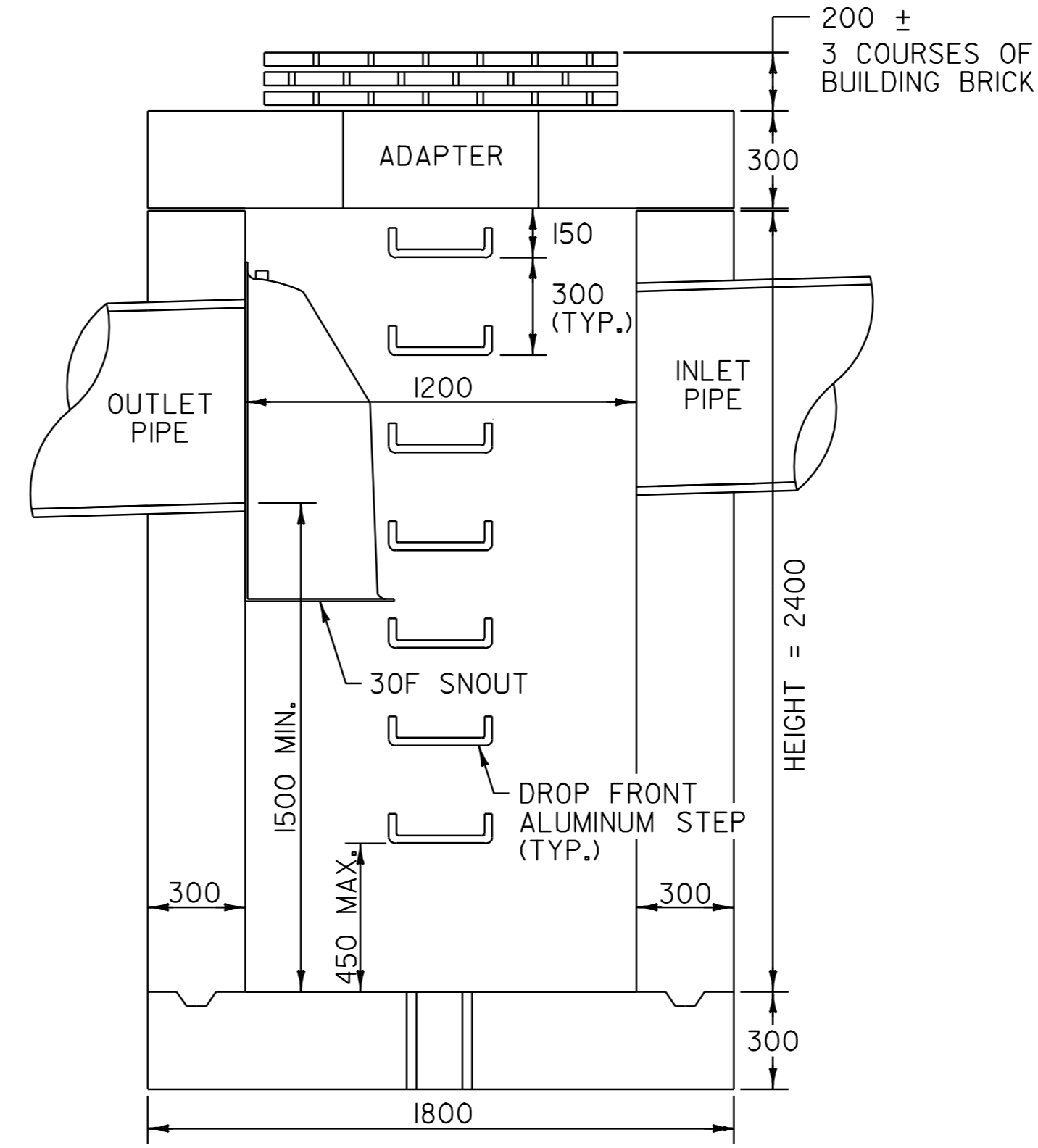
<p><b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS WINNERS CIRCLE ALBANY, NEW YORK, 02208</p>	PROJECT NAME: <u>OLD BENNINGTON</u>	PLOT DATE: 05-MAY-2008 14
	PROJECT NUMBER: <u>STP 1400(5)</u>	DRAWN BY: <u>C.A.K.</u>
	FILE NAME: <u>/pave/97d228/p97d228.dgn</u>	CHECKED BY: <u>D.E.G.</u>
	PROJECT LEADER: <u>J.P.K.</u>	SHEET <u>9</u> OF 48



**FRONT ELEVATION**



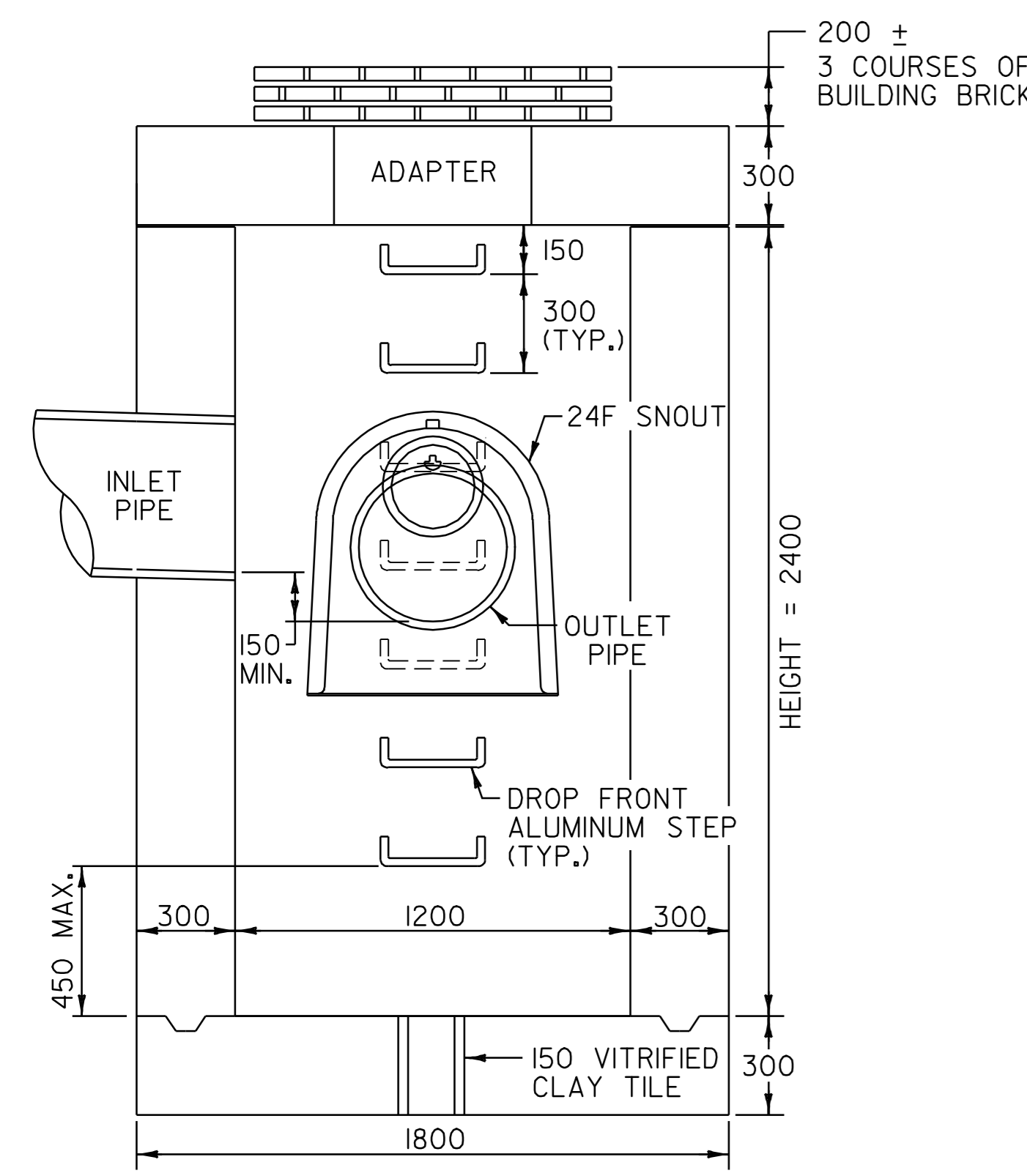
**PLAN**



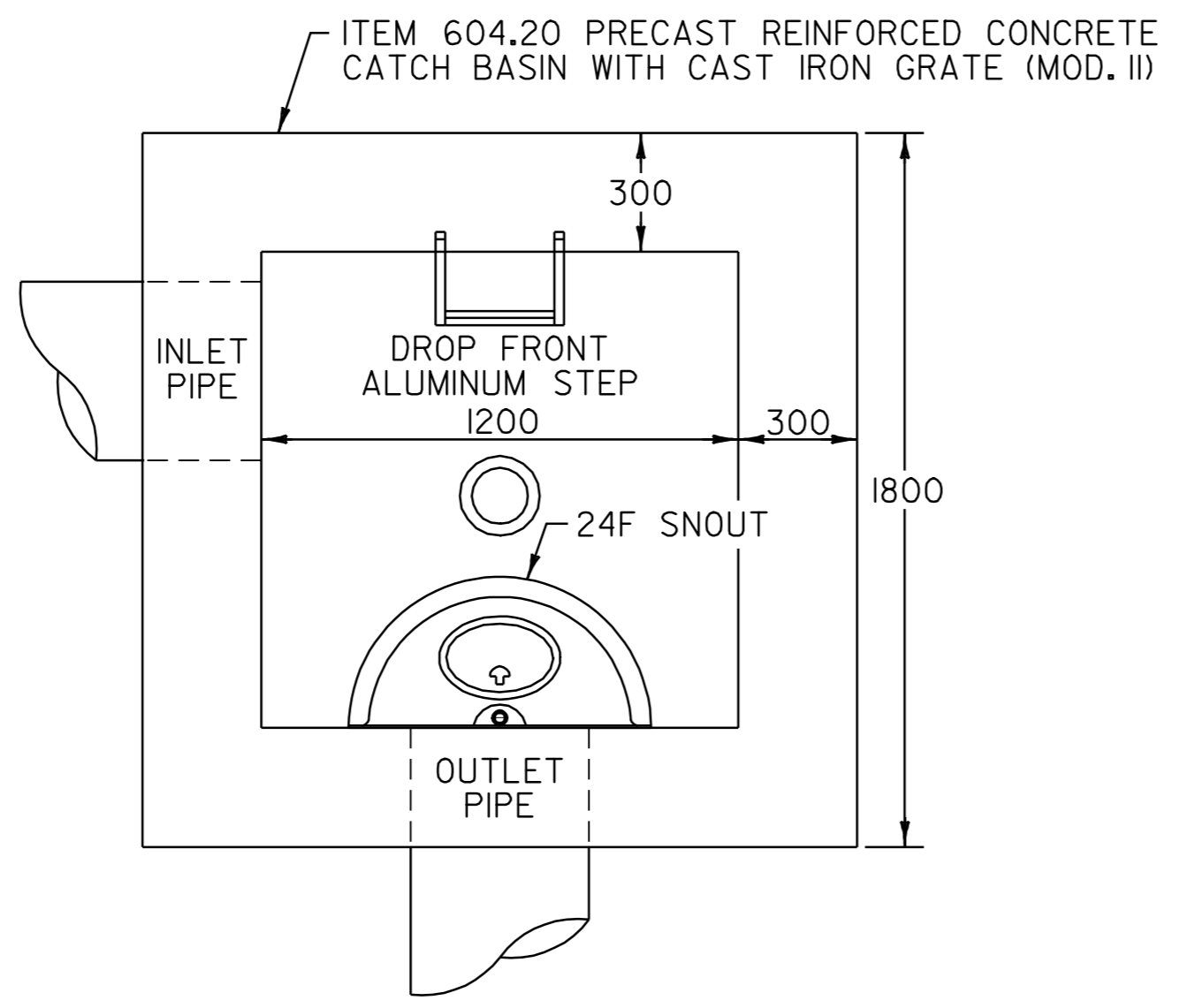
**SIDE ELEVATION**

**PRECAST REINFORCED CONCRETE CATCH BASIN WITH "30F SNOUT" SYSTEM**

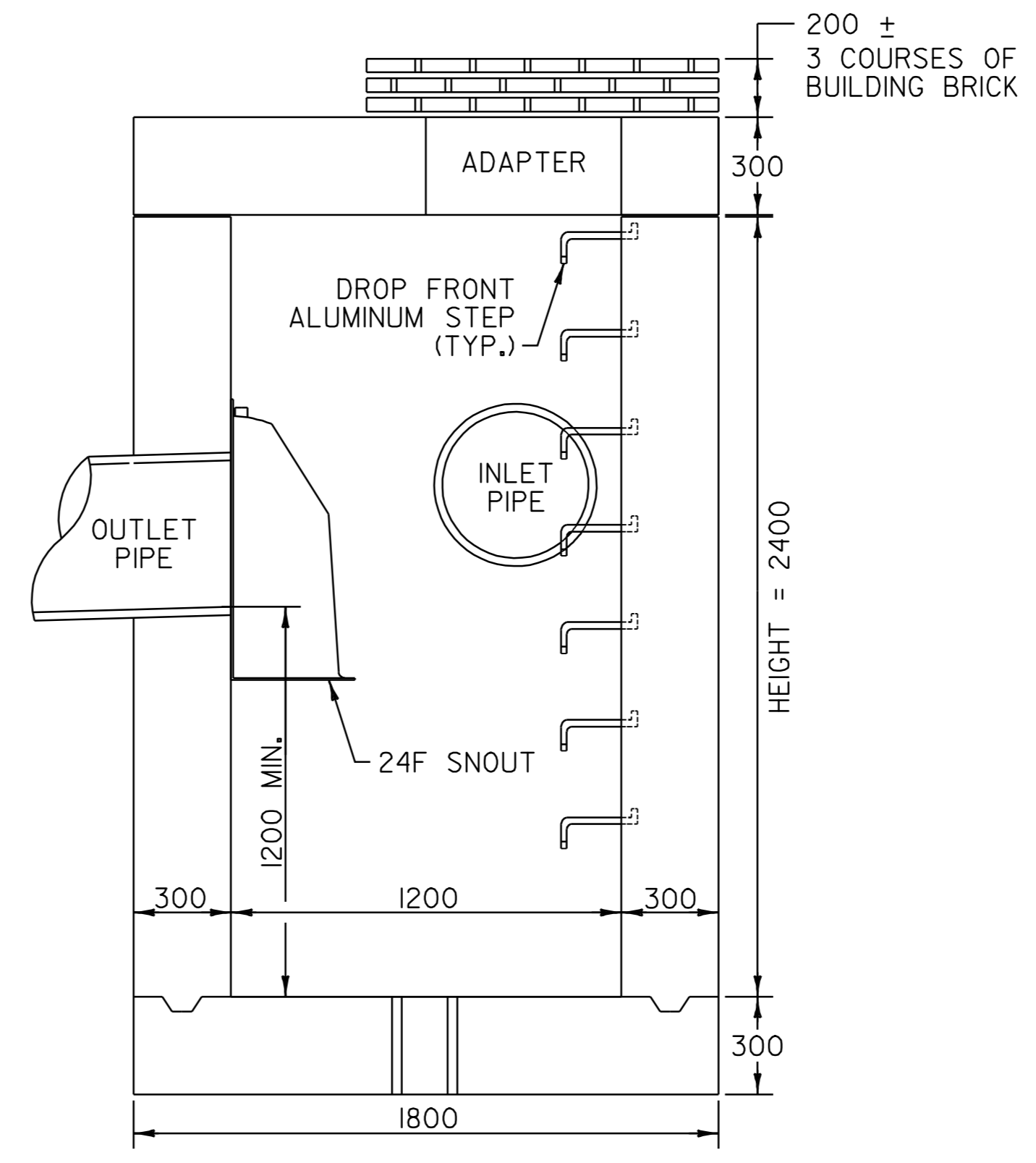
N.T.S.  
STA. I+052.2 RT



**FRONT ELEVATION**



**PLAN**



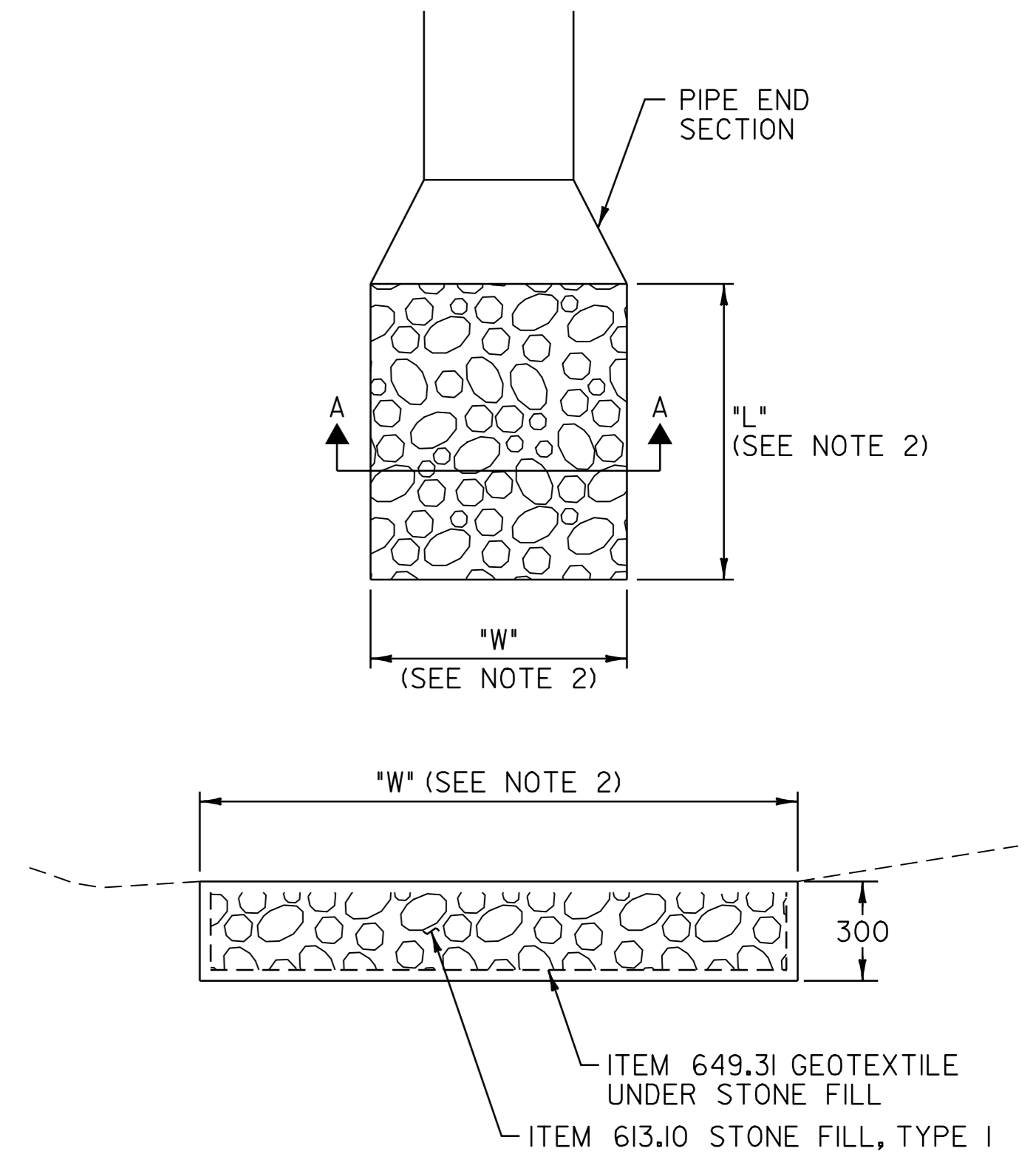
**SIDE ELEVATION**

**PRECAST REINFORCED CONCRETE CATCH BASIN WITH "24F SNOUT" SYSTEM**

N.T.S.  
STA. I+227.0 LT  
STA. I+233.4 RT

**NOTES:**

1. SEE VAOT STANDARD D-13M FOR REINFORCING STEEL SCHEDULE AND NOTES, ADAPTER DETAILS, AND DROP FRONT ALUMINUM STEP DETAILS FOR CONCRETE CATCH BASINS.
2. MORTAR, TYPE II SHALL BE USED FOR JOINT FILLER AND LAYING OF BRICKS.
3. THREE COURSES OF BUILDING BRICK SHALL BE PLACED ON TOP OF CONCRETE ADAPTER PRIOR TO PLACING CONCRETE SEAT TO FACILITATE CHANGING ELEVATION OF CATCH BASIN.
4. ADAPTER SHALL BE PLACED ON CATCH BASIN SO AS TO PROVIDE DIRECT ACCESS TO STEPS.
5. ITEM 604.20 PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (MOD. I) SHALL INCLUDE PAYMENT FOR THE INSTALLATION OF A 30F SNOOT SYSTEM. ITEM 604.20 (MOD. II) SHALL INCLUDE PAYMENT FOR THE INSTALLATION OF A 24F SNOOT SYSTEM.
6. SEE DETAILS ON THIS SHEET FOR 24F SNOOT AND 30F SNOOT SYSTEM DIMENSIONS, SPECIFICATIONS AND INSTALLATION DETAILS.



**SECTION A-A**

**NOTES:**

1. STONE PADS SHALL BE CONSTRUCTED AT PIPE OUTLETS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. THE DIMENSIONS OF THE STONE PADS VARY, SEE THE PLAN SHEETS FOR DIMENSIONS.

**STONE PADS**

N.T.S.

**MISC. DETAIL SHEET # 2**

**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: OLD BENNINGTON	PLOT DATE: 05-MAY-2008 14
PROJECT NUMBER: STP 1400(5)	DRAWN BY: C.A.K.
FILE NAME: /pave/97d228/p97d228.dgn	CHECKED BY: D.E.G.
PROJECT LEADER: J.P.K.	SHEET 10 OF 48
DESIGNED BY: J.S.P.	
p97d228md2.i	



618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm

STA. I+160.0 - STA. I+340.0 LT

618.20 BRICK PAVING

STA. I+160.0 - STA. I+340.0 LT

STA. I+160.0 - STA. I+340.0 RT

604.42 CHANGE ELEVATION OF SEWER MANHOLE

STA. I+303.9 LT

649.11 GEOTEXTILE FOR ROADBED SEPARATOR

STA. I+205.0 - STA. I+265.0

STA I+048 - I+205

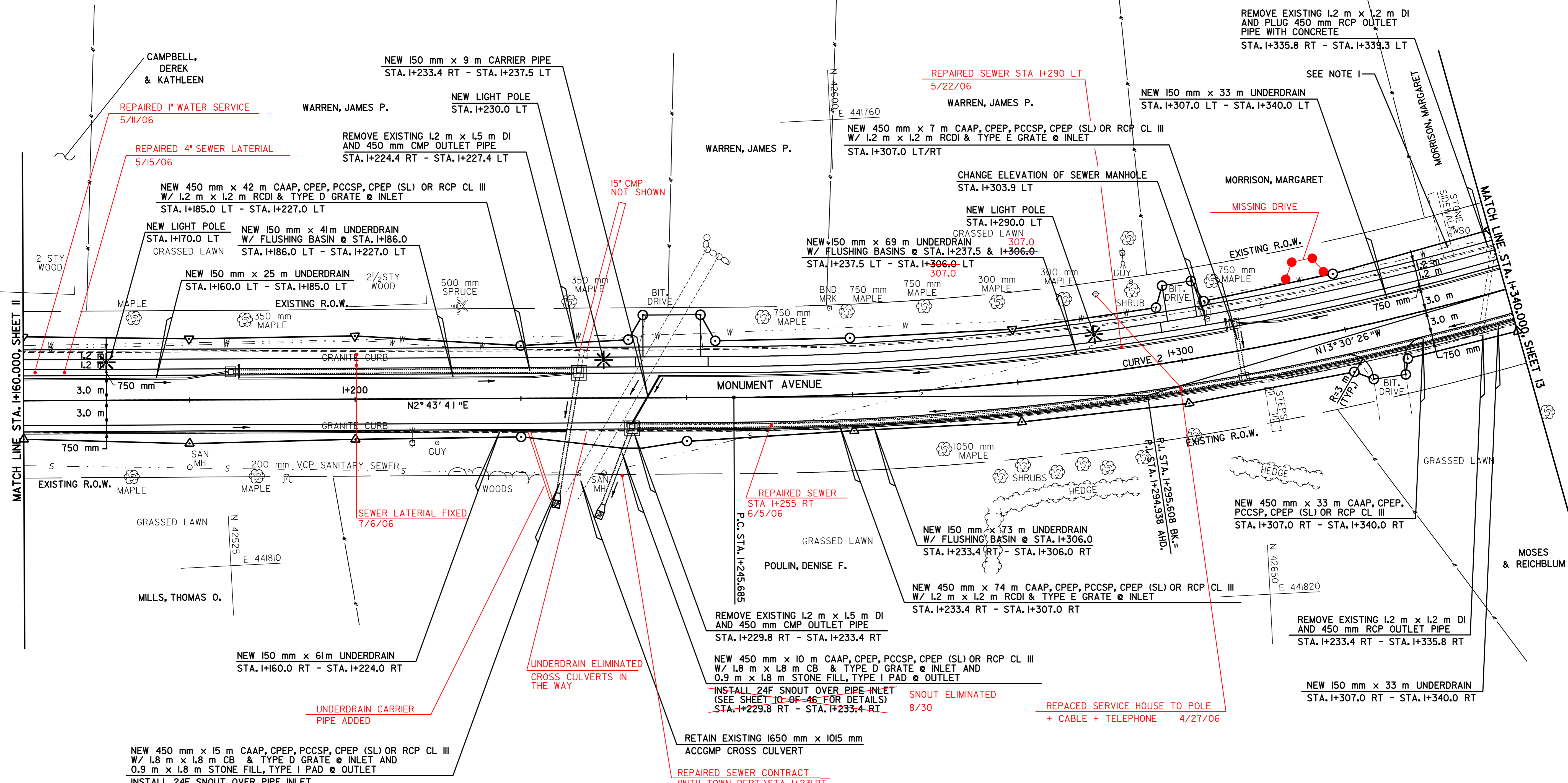
STA I+265 - I+384

CONSTRUCT DRIVE

STA. I+238 LT - 7.0 m PAVED

STA. I+301 LT - 3.5 m PAVED

STA. I+324 RT - 3.9 m PAVED



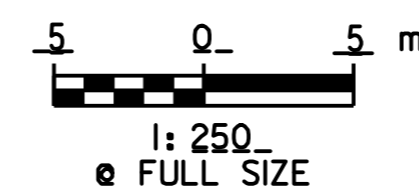
MATCH LINE STA. I+160.000, SHEET II

MATCH LINE STA. I+340.000, SHEET 13

- NOTES:
1. AN ESTIMATED QUANTITY OF ITEM 628.30 RELAYING SEWER PIPE HAS BEEN INCLUDED TO PROVIDE FOR THE RELOCATION OF THE EXISTING SANITARY SEWER LINE IF NECESSARY TO AVOID CONFLICT WITH DRAINAGE STRUCTURES AND PIPES AS DIRECTED BY THE RESIDENT ENGINEER.
  2. UNDERDRAIN OFFSET MAY BE ADJUSTED AS NECESSARY TO AVOID CONFLICT WITH UTILITIES AS DIRECTED BY THE RESIDENT ENGINEER.

DATUM	
VERTICAL	N/A
HORIZONTAL	NAD 83 (1996)

CURVE 2	
P.C. =	STA. I+245.685
P.T. =	STA. I+344.861
Δ =	16° 14' 07" LT
R =	350.000 m
T =	49.923 m
L =	99.176 m
E =	3.542 m
θ <sub>max</sub> =	N.C.



# PLAN SHEET # 2

## VERMONT AGENCY OF TRANSPORTATION

<b>CHA</b> CLOUGH, HARBOUR & ASSOCIATES <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small> <small>WINNERS CIRCLE ALBANY, NEW YORK, 02208</small>	PROJECT NAME: <u>OLD BENNINGTON</u> PROJECT NUMBER: <u>STP 1400(5)</u>	PLOT DATE: 05-MAY-2008 14:
	FILE NAME: /pave/97d228/p97d228.dgn PROJECT LEADER: <u>I.E.K.</u> DESIGNED BY: <u>J.S.P.</u> <b>p97d228ps2.i</b>	DRAWN BY: <u>C.A.K.</u> CHECKED BY: <u>D.E.G.</u> SHEET <u>12</u> OF 48

**203.28 EXCAVATION OF SURFACES AND PAVEMENTS**

STA. I+385.0 - STA. I+386.8 LT

**604.42 CHANGE ELEVATION OF SEWER MANHOLE**

STA. I+368.8 LT

**618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 125 mm**

STA. I+340.0 - STA. I+383.0 LT

**618.20 BRICK PAVING**

STA. I+340.0 - STA. I+381.5 LT  
STA. I+340.0 - STA. I+390.0 RT

**618.30 DETECTABLE WARNING SURFACE**

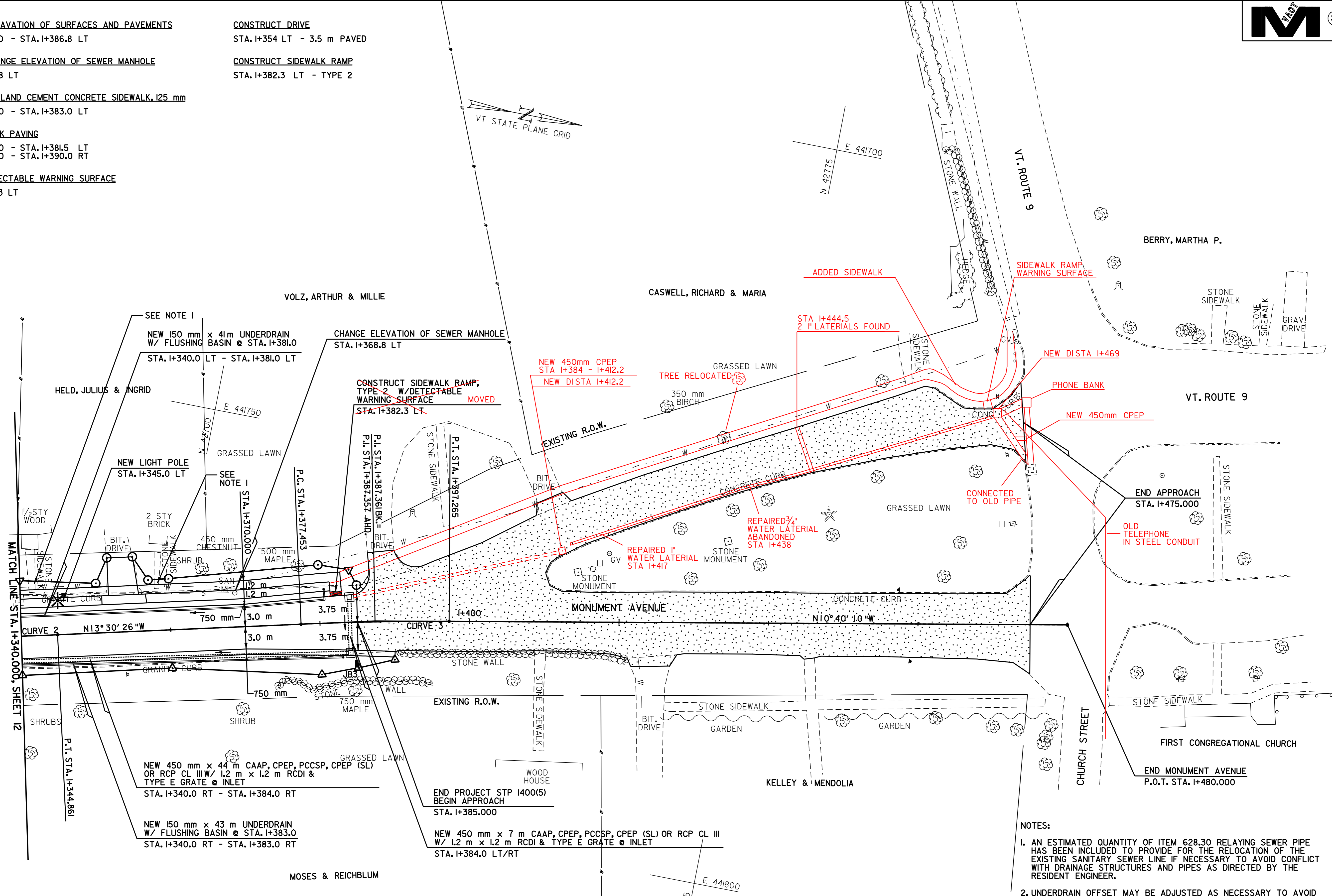
STA. I+382.3 LT

**CONSTRUCT DRIVE**

STA. I+354 LT - 3.5 m PAVED

**CONSTRUCT SIDEWALK RAMP**

STA. I+382.3 LT - TYPE 2



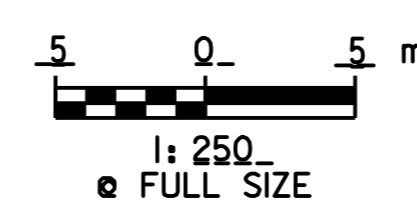
- NOTES:**
1. AN ESTIMATED QUANTITY OF ITEM 628.30 RELAYING SEWER PIPE HAS BEEN INCLUDED TO PROVIDE FOR THE RELOCATION OF THE EXISTING SANITARY SEWER LINE IF NECESSARY TO AVOID CONFLICT WITH DRAINAGE STRUCTURES AND PIPES AS DIRECTED BY THE RESIDENT ENGINEER.
  2. UNDERDRAIN OFFSET MAY BE ADJUSTED AS NECESSARY TO AVOID CONFLICT WITH UTILITIES AS DIRECTED BY THE RESIDENT ENGINEER.

**DATUM**  
VERTICAL N/A  
HORIZONTAL NAD\_83\_(1996)

LIMITS OF ITEM 203.28  
EXCAVATION OF SURFACES AND PAVEMENTS

LIMITS OF ITEM 210.10  
COLD PLANING-BITUMINOUS PAVEMENT

CURVE 2	CURVE 3
P.C.= STA. I+245.685	P.C.= STA. I+377.453
P.T.= STA. I+344.861	P.T.= STA. I+397.265
Δ=16°14'07" LT	Δ=2°50'16" RT
R=350.000_m	R=400.000_m
T=49.923_m	T=9.908_m
L=99.176_m	L=19.812_m
E=3.542_m	E=0.123_m
e <sub>max</sub> =N.C.	e <sub>max</sub> =N.C.



**PLAN SHEET # 3**

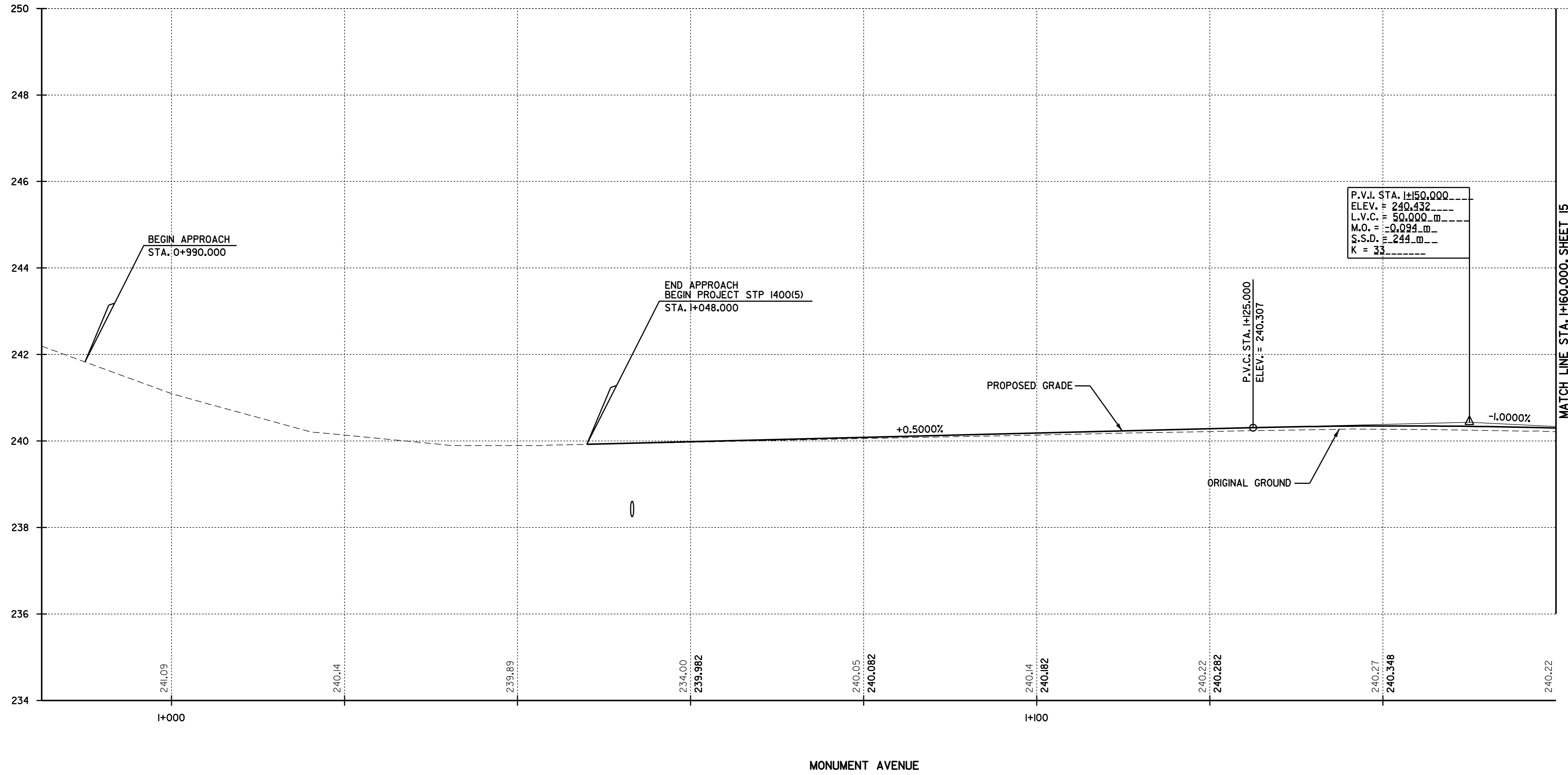
**VERMONT AGENCY OF TRANSPORTATION**

**CHA CLOUGH, HARBOUR & ASSOCIATES**  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
WINNERS CIRCLE ALBANY, NEW YORK, 12208

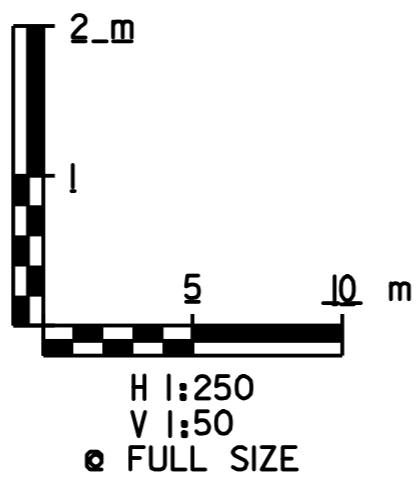
PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

FILE NAME: /pave/97d228/p97d228.dgn  
PROJECT LEADER: I.E.K.  
DESIGNED BY: J.S.P.  
p97d228ps3.i

PLOT DATE: 05-MAY-2008 14:  
DRAWN BY: C.A.K.  
CHECKED BY: D.E.G.  
SHEET 13 OF 48



MONUMENT AVENUE

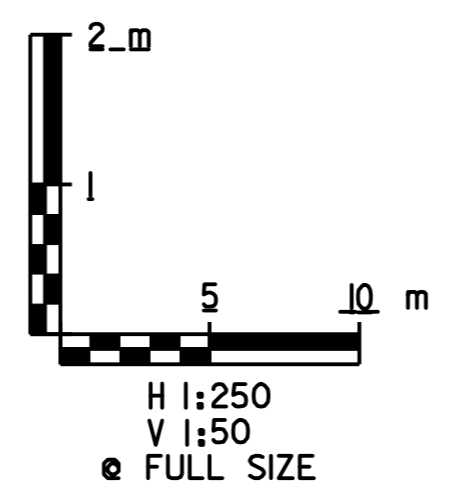
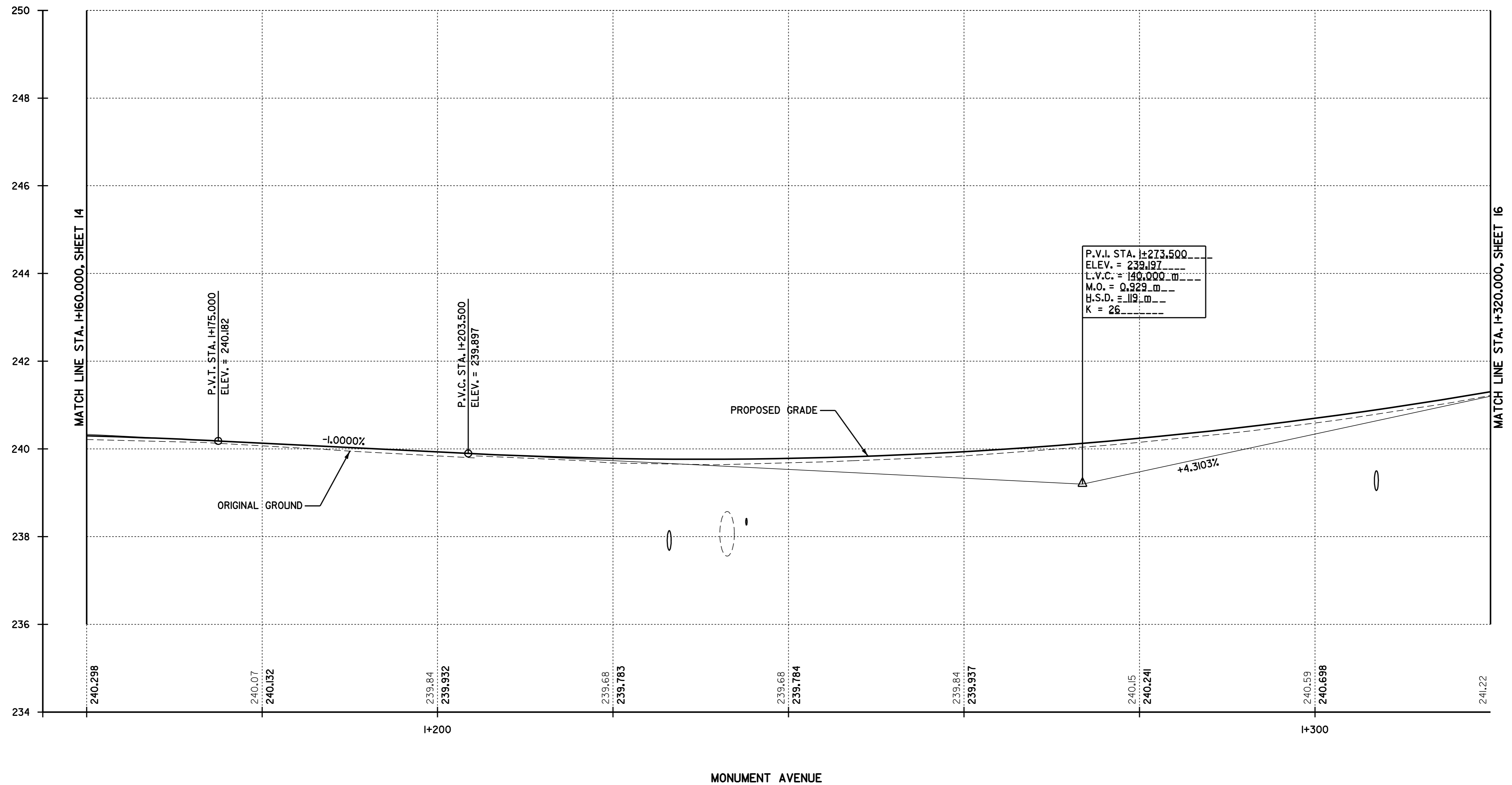


# PROFILE SHEET # 1

## VERMONT AGENCY OF TRANSPORTATION

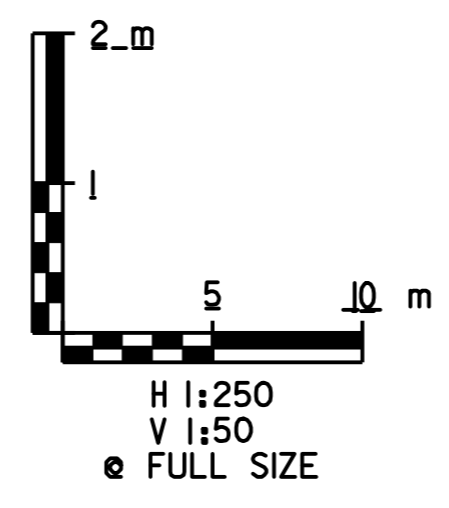
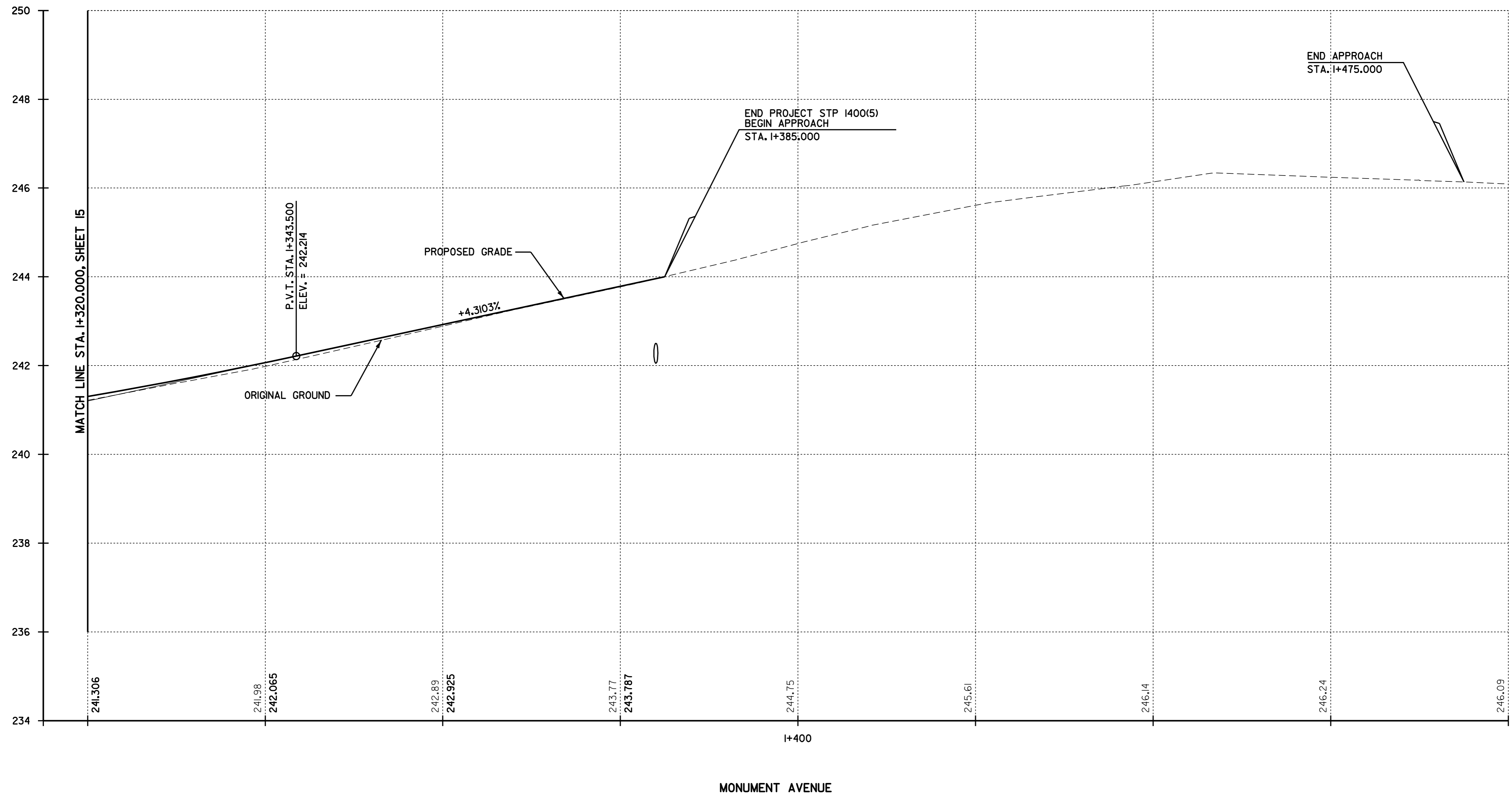


PROJECT NAME: OLD BENNINGTON  
 PROJECT NUMBER: STP I400(5)  
 FILE NAME: /pave/97d228/p97d228.dgn  
 PROJECT LEADER: I.P.K.  
 DESIGNED BY: J.S.P.  
 PLOT DATE: 05-MAY-2008 14:00  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.E.G.  
 SHEET 14 OF 48



# PROFILE SHEET # 2

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
<b>CHA CLOUGH, HARBOUR &amp; ASSOCIATES</b> <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS WINNERS CIRCLE ALBANY, NEW YORK, 02208</small>	
PROJECT NAME: OLD BENNINGTON	PLOT DATE: 05-MAY-2008 14:00
PROJECT NUMBER: STP 1400(5)	DRAWN BY: C.A.K.
FILE NAME: /pave/97d228/p97d228.dgn	CHECKED BY: D.E.G.
PROJECT LEADER: I.P.K.	SHEET 15 OF 48
DESIGNED BY: J.S.P.	
<b>p97d228pro2.i</b>	



# PROFILE SHEET # 3

## VERMONT AGENCY OF TRANSPORTATION

<b>CHA</b> CLOUGH, HARBOUR & ASSOCIATES <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small> <small>WINNERS CIRCLE ALBANY, NEW YORK, 02208</small>	PROJECT NAME: <u>OLD BENNINGTON</u> PROJECT NUMBER: <u>STP 1400(5)</u>	PLOT DATE: 05-MAY-2008 14:
	FILE NAME: /pave/97d228/p97d228.dgn PROJECT LEADER: <u>I.P.K.</u> DESIGNED BY: <u>J.S.P.</u> <b>p97d228pro3.i</b>	DRAWN BY: <u>C.A.K.</u> CHECKED BY: <u>D.E.G.</u> SHEET <u>16</u> OF 48



678.23 WIRED CONDUIT (50 mm DIA. - SCHEDULE 40)

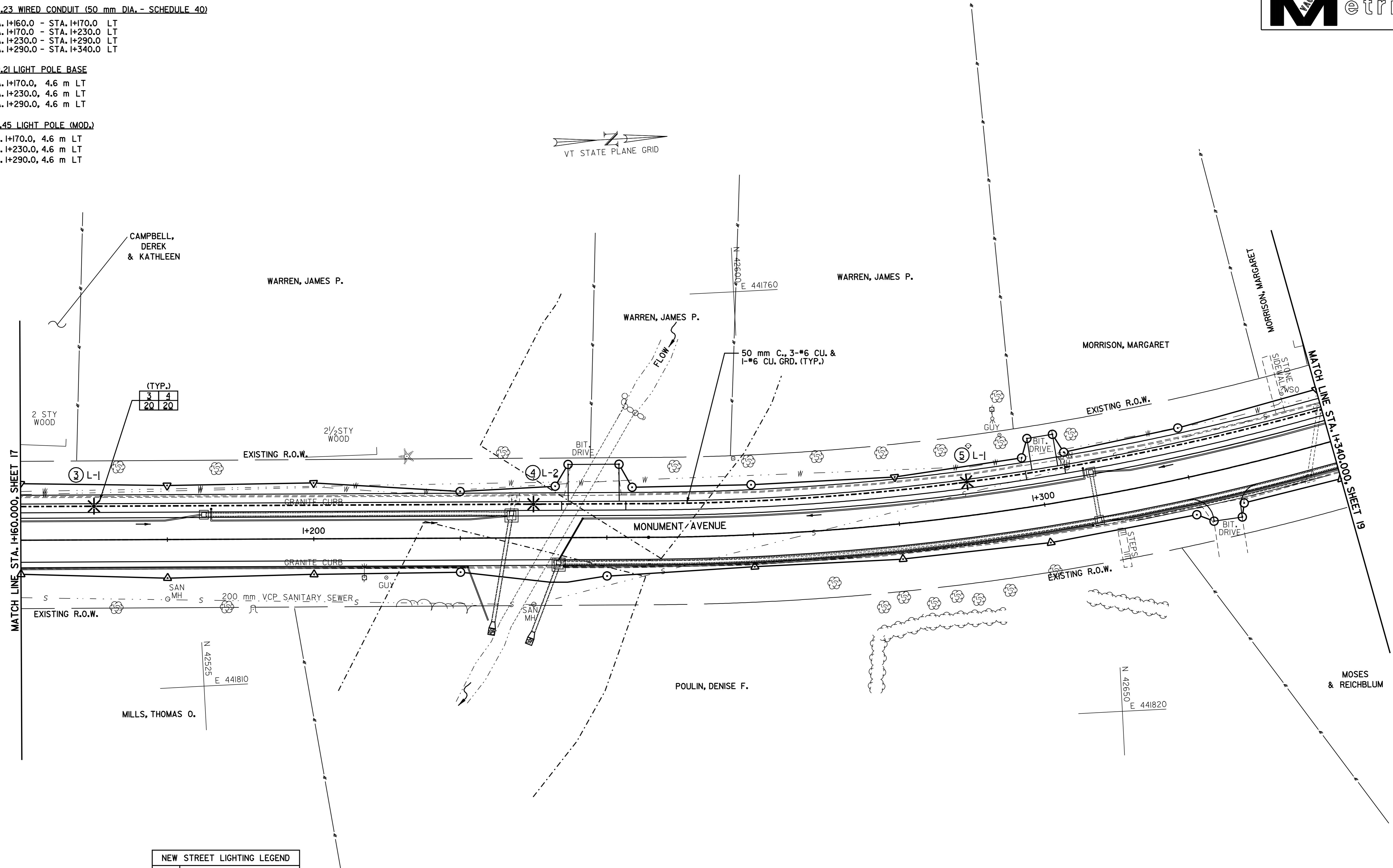
STA. I+160.0 - STA. I+170.0 LT  
 STA. I+170.0 - STA. I+230.0 LT  
 STA. I+230.0 - STA. I+290.0 LT  
 STA. I+290.0 - STA. I+340.0 LT

679.21 LIGHT POLE BASE

STA. I+170.0, 4.6 m LT  
 STA. I+230.0, 4.6 m LT  
 STA. I+290.0, 4.6 m LT

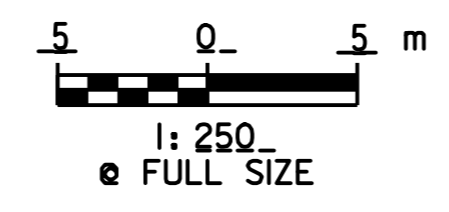
679.45 LIGHT POLE (MOD.)

STA. I+170.0, 4.6 m LT  
 STA. I+230.0, 4.6 m LT  
 STA. I+290.0, 4.6 m LT



NEW STREET LIGHTING LEGEND	
	LIGHT POLE
	CONDUIT
	JUNCTION BOX
	CONDUIT SLEEVE
	POWER STANCHION
	LIGHT POLE NUMBER
	L-1 CIRCUIT NUMBER
	1 20 DETAIL NUMBER ON SHEET NUMBER

DATUM	
VERTICAL	N/A
HORIZONTAL	NAD_83_(1996)



# UTILITY PLAN SHEET # 2

## VERMONT AGENCY OF TRANSPORTATION

<b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small> <small>WINNERS CIRCLE ALBANY, NEW YORK, 02208</small>	PROJECT NAME: <u>OLD BENNINGTON</u>	PLOT DATE: 05-MAY-2008 14	
	PROJECT NUMBER: <u>STP 1400(5)</u>	DRAWN BY: <u>C.A.K.</u>	
	FILE NAME: /pave/97d228/p97d228.dgn	DESIGNED BY: <u>J.S.P.</u>	CHECKED BY: <u>D.E.G.</u>
	PROJECT LEADER: <u>I.E.K.</u>	SHEET <u>18</u> OF 48	

678.23 WIRED CONDUIT (50 mm DIA. - SCHEDULE 40)

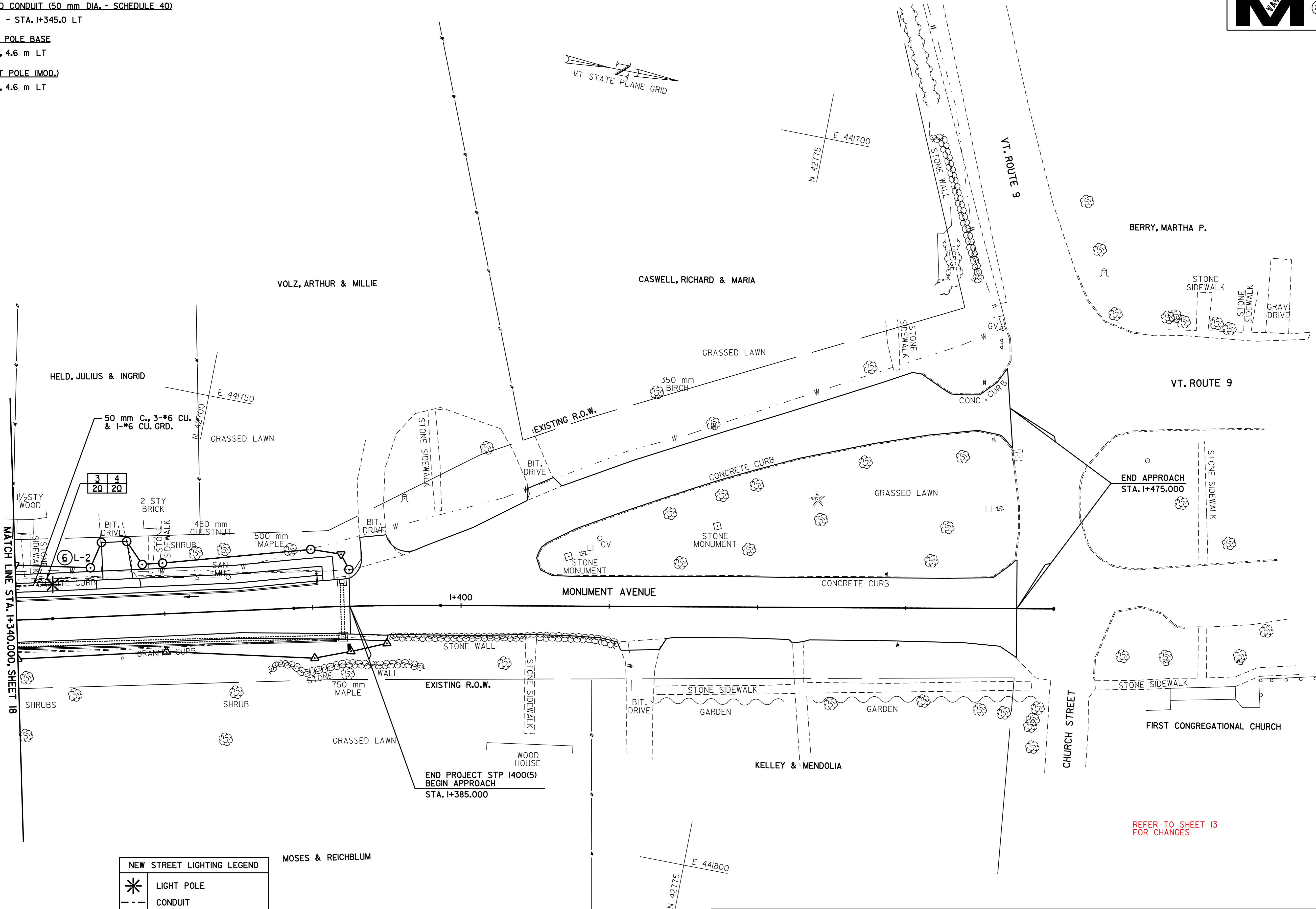
STA. I+340.0 - STA. I+345.0 LT

679.21 LIGHT POLE BASE

STA. I+345.0, 4.6 m LT

679.45 LIGHT POLE (MOD.)

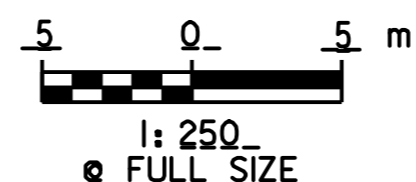
STA. I+345.0, 4.6 m LT



**NEW STREET LIGHTING LEGEND**

	LIGHT POLE
	CONDUIT
	JUNCTION BOX
	CONDUIT SLEEVE
	POWER STANCHION
	LIGHT POLE NUMBER
	CIRCUIT NUMBER
	DETAIL NUMBER ON SHEET NUMBER

MOSES & REICHLUM



# UTILITY PLAN SHEET # 3

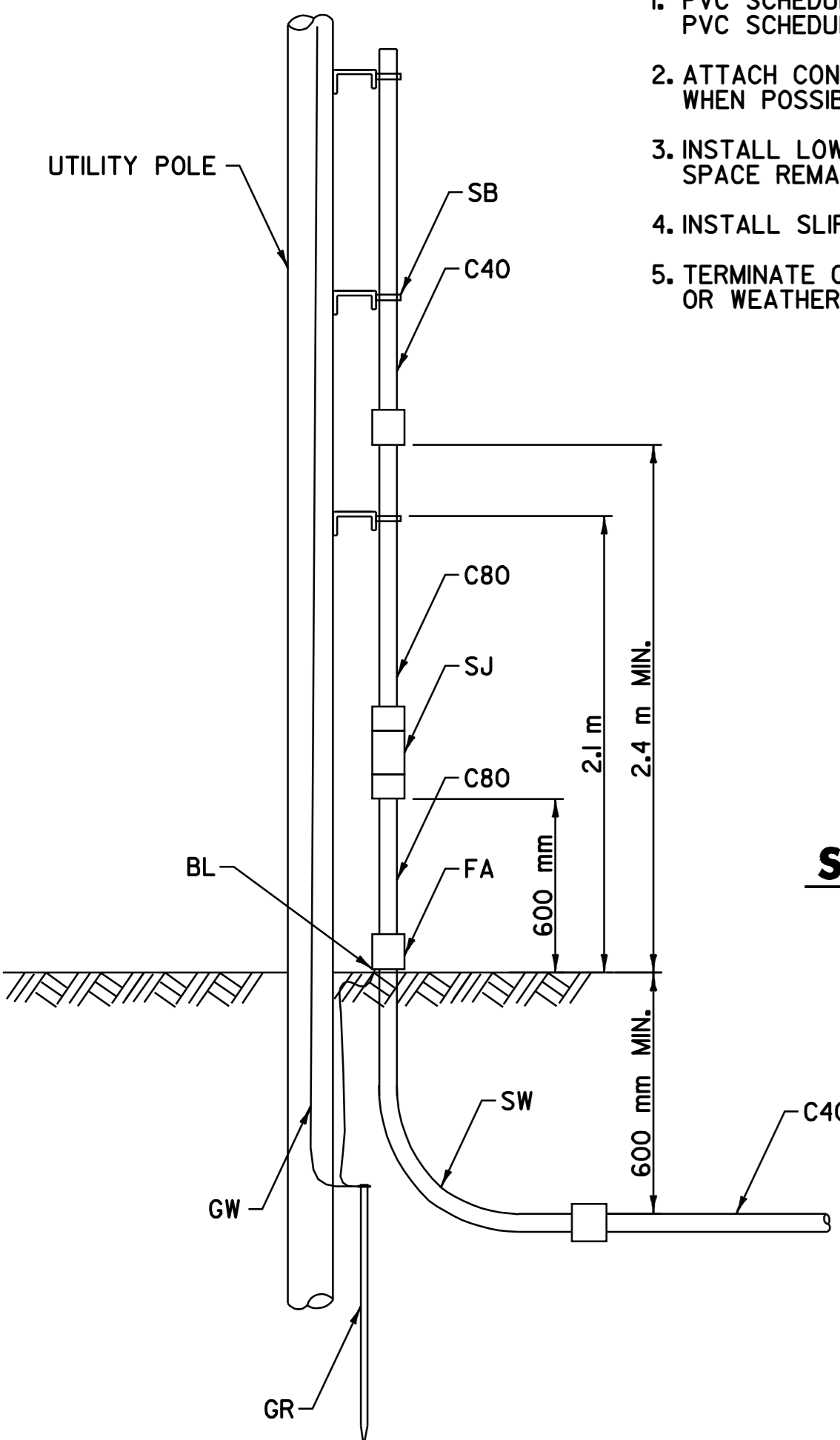
## VERMONT AGENCY OF TRANSPORTATION

<p><b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS WINNERS CIRCLE ALBANY, NEW YORK, 02009</p>	PROJECT NAME: <u>OLD BENNINGTON</u>	PLOT DATE: 05-MAY-2008 14
	PROJECT NUMBER: STP 1400(5)	DRAWN BY: <u>C.A.K.</u>
	FILE NAME: /pave/97d228/p97d228.dgn	CHECKED BY: <u>D.E.G.</u>
	PROJECT LEADER: <u>I.E.K.</u>	SHEET <u>19</u> OF 48

DATUM	
VERTICAL	<u>N/A</u>
HORIZONTAL	<u>NAD 83 (1996)</u>

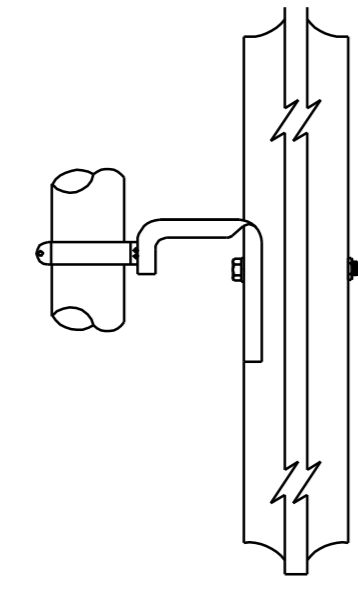
**NOTES:**

- PVC SCHEDULE 80 SHALL BE USED TO 2.4 m ABOVE GRADE. PVC SCHEDULE 40 TO BE USED ABOVE 2.4 m.
- ATTACH CONDUIT ON SIDE OF POLE AWAY FROM TRAFFIC WHEN POSSIBLE.
- INSTALL LOWEST STANDOFF BRACKET AT 2.1m ABOVE GRADE. SPACE REMAINING STANDOFF BRACKETS APPROX. 1.5 m APART.
- INSTALL SLIP JOINT APPROXIMATELY 2/3 OPEN.
- TERMINATE CONDUIT WITH CONDULATOR FOR PRIMARY CABLE, OR WEATHERHEAD FOR SECONDARY CABLE.

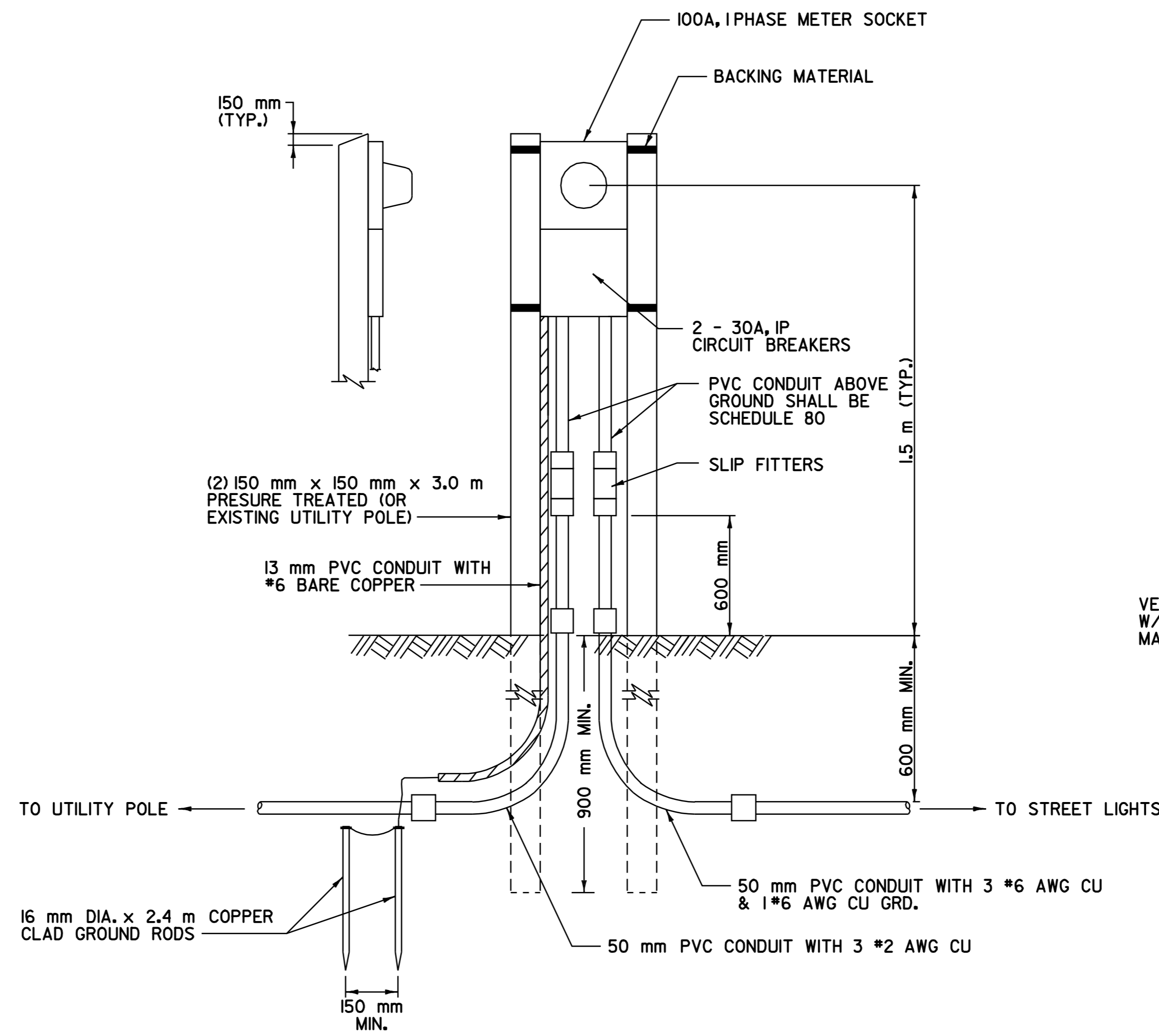


**STANDOFF BRACKET DETAIL**

STANDOFF BRACKET PROVIDED AND INSTALLED BY CVPS

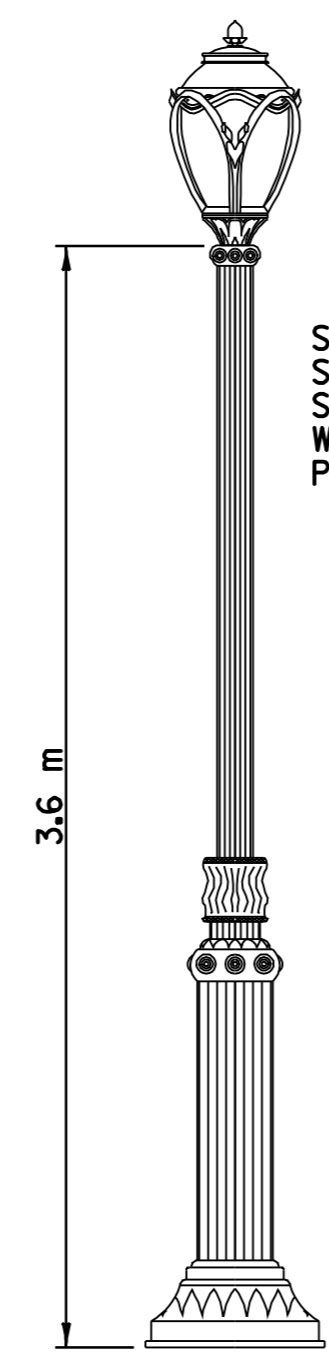


ITEM	AMOUNT REQUIRED	CODE	MATERIAL
SJ	1		SLIP JOINT
SB	-		STANDOFF BRACKET
C80	3 m		CONDUIT (SCHEDULE 80) 50 mm
C40	-		CONDUIT (SCHEDULE 40) 50 mm
SW	1		90 STEEL SWEEP 50 mm
FA	1		FEMALE ADAPTER
BL	1		BONDING LUG
GR	1		GROUND ROD
GW	-		GROUND WIRE

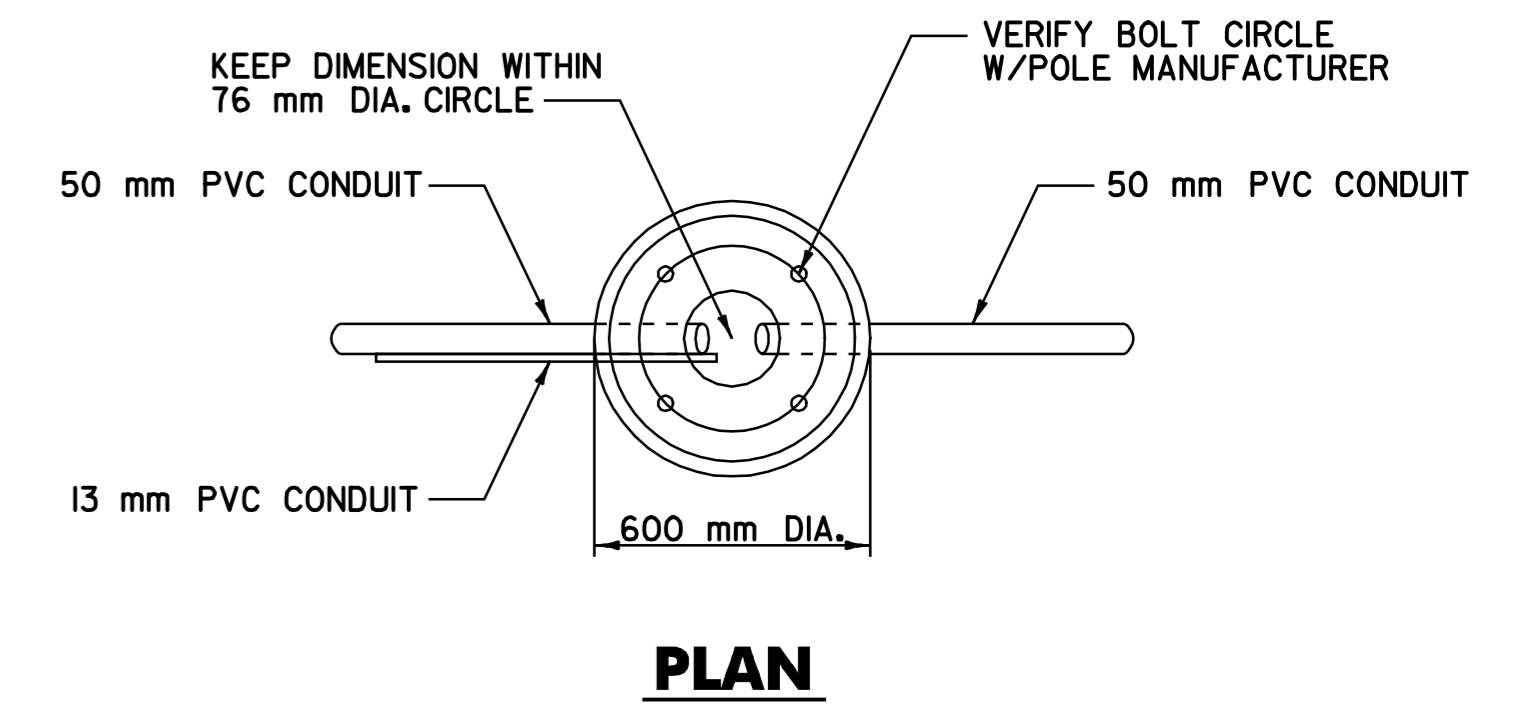


**2 STREET LIGHT ELECTRICAL SERVICE INSTALLATION**  
NOT TO SCALE

ALL HARDWARE NEEDED TO ERECT THIS LIGHT FIXTURE TO BE INCLUDED IN THE ITEM 679.45 LIGHT POLE (MOD.), POWER SHALL BE PROVIDED AS PER SUBSECTION 679.06.

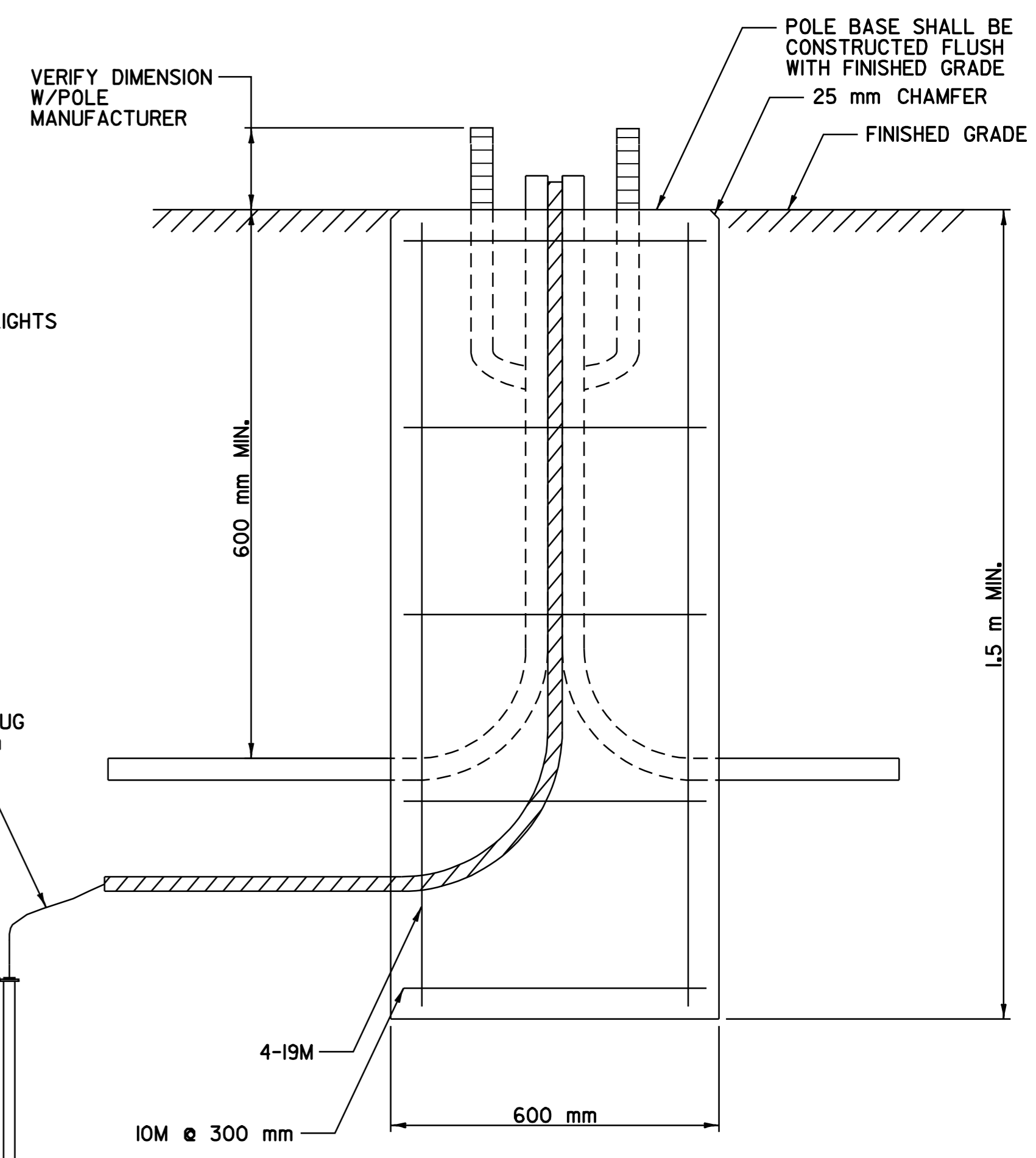


**3 STREET LIGHT FIXTURE DETAIL**  
NOT TO SCALE



**PLAN**

NOTE: EXACT SIZE TO BE VERIFIED WITH THE RESIDENT ENGINEER BASED UPON POLE MANUFACTURER'S REQUIREMENTS.



**SECTION**

**4 STANDARD POLE BASE DETAIL**  
NOT TO SCALE

**1 ELECTRICAL RISER CONDUIT INSTALLATION**  
NOT TO SCALE

STREET LIGHTING LOCATIONS						
POLE NO.	LOCATION	OFFSET *	LUMINAIRE		MOUNT HEIGHT	CONCRETE BASE
			WATTS	TYPE		
1	STA. I+037.0	5.0 m LT	175	III	3.6 m	1.5 m x 600 mm
2	STA. I+08.0	4.6 m LT	175	III	3.6 m	1.5 m x 600 mm
3	STA. I+170.0	4.6 m LT	175	III	3.6 m	1.5 m x 600 mm
4	STA. I+230.0	4.6 m LT	175	III	3.6 m	1.5 m x 600 mm
5	STA. I+290.0	4.6 m LT	175	III	3.6 m	1.5 m x 600 mm
6	STA. I+345.0	4.6 m LT	175	III	3.6 m	1.5 m x 600 mm

\*POLES SHALL BE INSTALLED SUCH THAT A MINIMUM 1.2 m CLEARANCE IS PRESENT BETWEEN FACE OF POLE AND EDGE OF TRAVEL LANE

DATUM	
VERTICAL	N/A
HORIZONTAL	NAD_83_(1996)

WORK NOT PERFORMED REMOVED BY VILLAGE OF OLD BENNINGTON

**LIGHTING, NOTES AND DETAIL SHEET**

**VERMONT AGENCY OF TRANSPORTATION**

<p><b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS MEMBERS: CIRCLE ALBANY, NEW YORK, 12205</p>	PROJECT NAME: OLD BENNINGTON	PLOT DATE: 05-MAY-2008 14
	PROJECT NUMBER: STP 1400(5)	DRAWN BY: C.A.K.
	FILE NAME: /pave/97d228/p97d228.dgn	CHECKED BY: D.E.G.
	PROJECT LEADER: I.P.K. DESIGNED BY: J.S.P. p97d228Ind.i	SHEET 20 OF 48

**646.41 DURABLE 100 mm YELLOW LINE (TYPE ITAPE)**

STA. 1+003.0 - STA. 1+017.7 DOUBLE SOLID (CENTER LINE)  
 STA. 1+047.3 - STA. 1+062.0 DOUBLE SOLID (CENTER LINE)  
 STA. 2+014.3 - STA. 2+029.0 DOUBLE SOLID (CENTER LINE)

**646.61 TEMPORARY 100 mm YELLOW LINE**

STA. 1+003.0 - STA. 1+017.7 DOUBLE SOLID (CENTER LINE)  
 STA. 1+047.3 - STA. 1+062.0 DOUBLE SOLID (CENTER LINE)  
 STA. 2+014.3 - STA. 2+029.0 DOUBLE SOLID (CENTER LINE)

**646.70 TEMPORARY LETTER OR SYMBOL**

STA. 1+015.0 RT (S,T,O,P)  
 STA. 1+050.0 LT (S,T,O,P)  
 STA. 2+017.0 LT (S,T,O,P)

**675.50 REMOVING SIGNS**

AS SHOWN - 97

**675.60 ERECTING SALVAGED SIGNS**

AS SHOWN - I (SOUTHERN VERMONT COLLEGE)  
 REFER TO BOOK IA PAGE 60

**646.46 DURABLE 600 mm STOP BAR (TYPE ITAPE)**

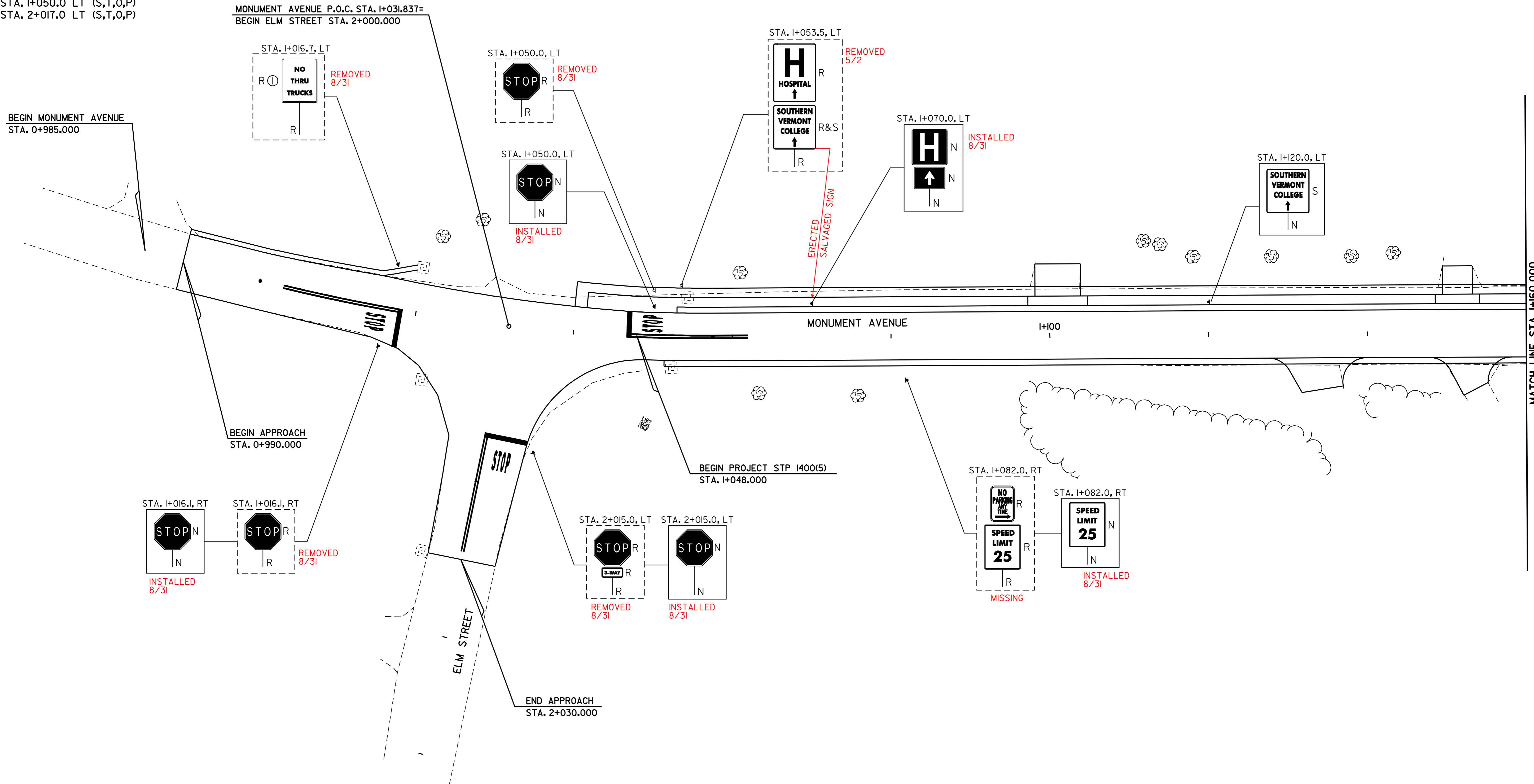
STA. 1+018.0 RT  
 STA. 1+047.0 LT  
 STA. 2+014.0 LT

**646.66 TEMPORARY 600 mm STOP BAR**

STA. 1+018.0 RT  
 STA. 1+047.0 LT  
 STA. 2+014.0 LT

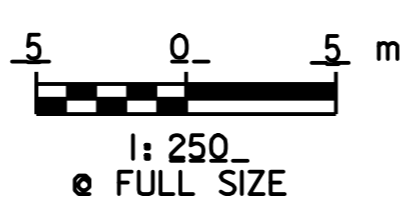
**646.50 DURABLE LETTER OR SYMBOL (TYPE ITAPE)**

STA. 1+015.0 RT (S,T,O,P)  
 STA. 1+050.0 LT (S,T,O,P)  
 STA. 2+017.0 LT (S,T,O,P)



DATUM	
VERTICAL	N/A
HORIZONTAL	NAD 83 (1996)

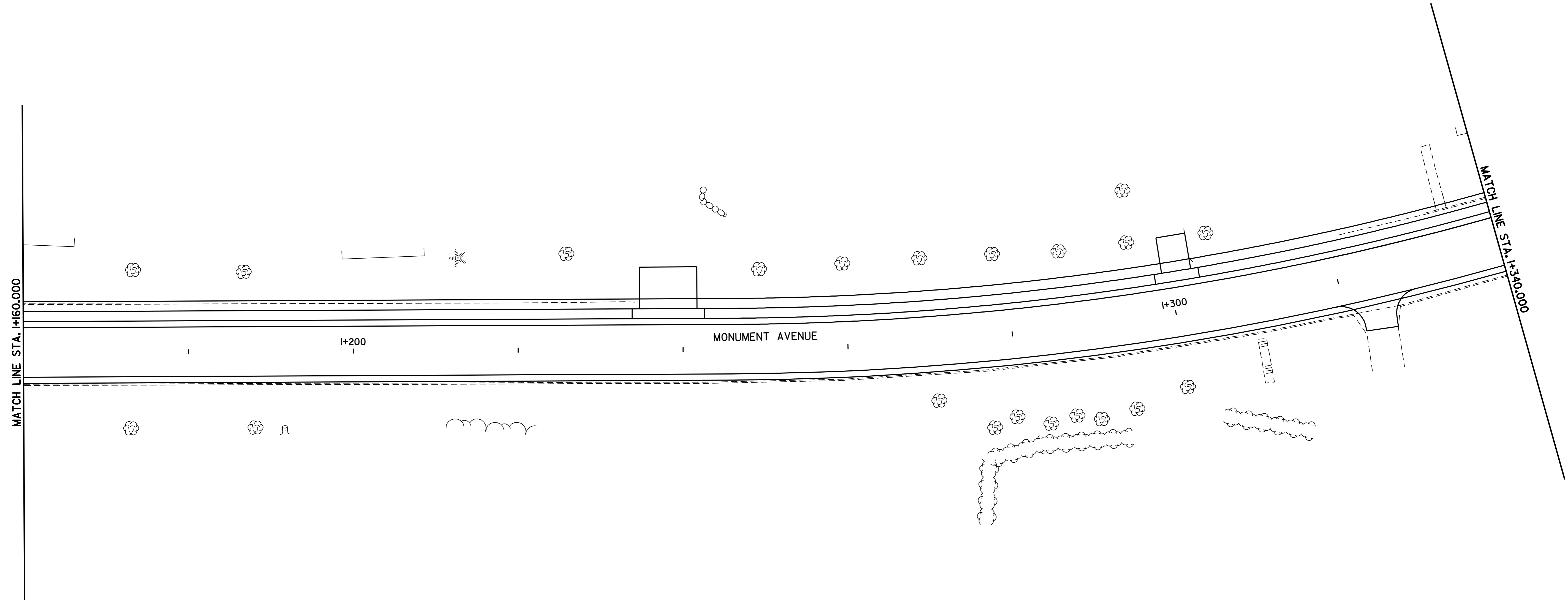
**SIGN LEGEND**  
 R= REMOVE  
 S= SALVAGE  
 N= NEW  
 RET= RETAIN  
 B-B= BACK TO BACK  
 EXISTING=   
 NEW=   
 ⊙ = RETURN TO VILLAGE OF OLD BENNINGTON



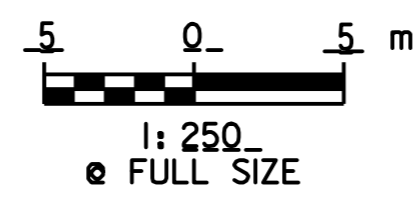
# SIGNING, STRIPING, AND PLAN SHEET #1

## VERMONT AGENCY OF TRANSPORTATION

<p><b>CLOUGH, HARBOUR &amp; ASSOCIATES</b>  <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small>  <small>MEMBERS: CIRCLE ALBANY, NEW YORK, 02008</small></p>	PROJECT NAME: <u>OLD BENNINGTON</u> PROJECT NUMBER: <u>STP 1400(5)</u>	PLOT DATE: 05-MAY-2008 14:
	FILE NAME: /pave/97d228/p97d228.dgn PROJECT LEADER: <u>I.P.K.</u> DESIGNED BY: <u>J.S.P.</u> p97d228ssp1.i	DRAWN BY: <u>C.A.K.</u> CHECKED BY: <u>D.E.G.</u> SHEET <u>21</u> OF 48




**SIGN LEGEND**  
 R= REMOVE  
 S= SALVAGE  
 N= NEW  
 RET= RETAIN  
 B-B= BACK TO BACK  
 EXISTING= - - - - -  
 NEW= \_\_\_\_\_  
 ① = RETURN TO VILLAGE  
 OF OLD BENNINGTON



DATUM	
VERTICAL	N/A
HORIZONTAL	NAD_83_(1996)

# SIGNING, STRIPING, AND PLAN SHEET #2

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
 <p><b>CHA CLOUGH, HARBOUR &amp; ASSOCIATES</b>          ENGINEERS, SURVEYORS, PLANNERS          &amp; LANDSCAPE ARCHITECTS  <small>WINNERS CIRCLE ALBANY, NEW YORK, 02208</small></p>	<p>PROJECT NAME: <u>OLD BENNINGTON</u></p> <p>PROJECT NUMBER: <u>STP 1400(5)</u></p> <p>FILE NAME: /pave/97d228/p97d228.dgn</p> <p>PROJECT LEADER: <u>I.E.K.</u></p> <p>DESIGNED BY: <u>J.S.P.</u></p> <p><b>p97d228ssp2.i</b></p>
<p>PLOT DATE: 05-MAY-2008 14</p> <p>DRAWN BY: <u>C.A.K.</u></p> <p>CHECKED BY: <u>D.E.G.</u></p> <p>SHEET <u>22</u> OF 46</p>	

646.46 DURABLE 600 mm STOP BAR (TYPE I TAPE)

STA. I+472.0 LT

646.66 TEMPORARY 600 mm STOP BAR

STA. I+472.0 LT

675.50 REMOVING SIGNS

AS SHOWN - 4

REFER TO BOOK IA PAGE 58

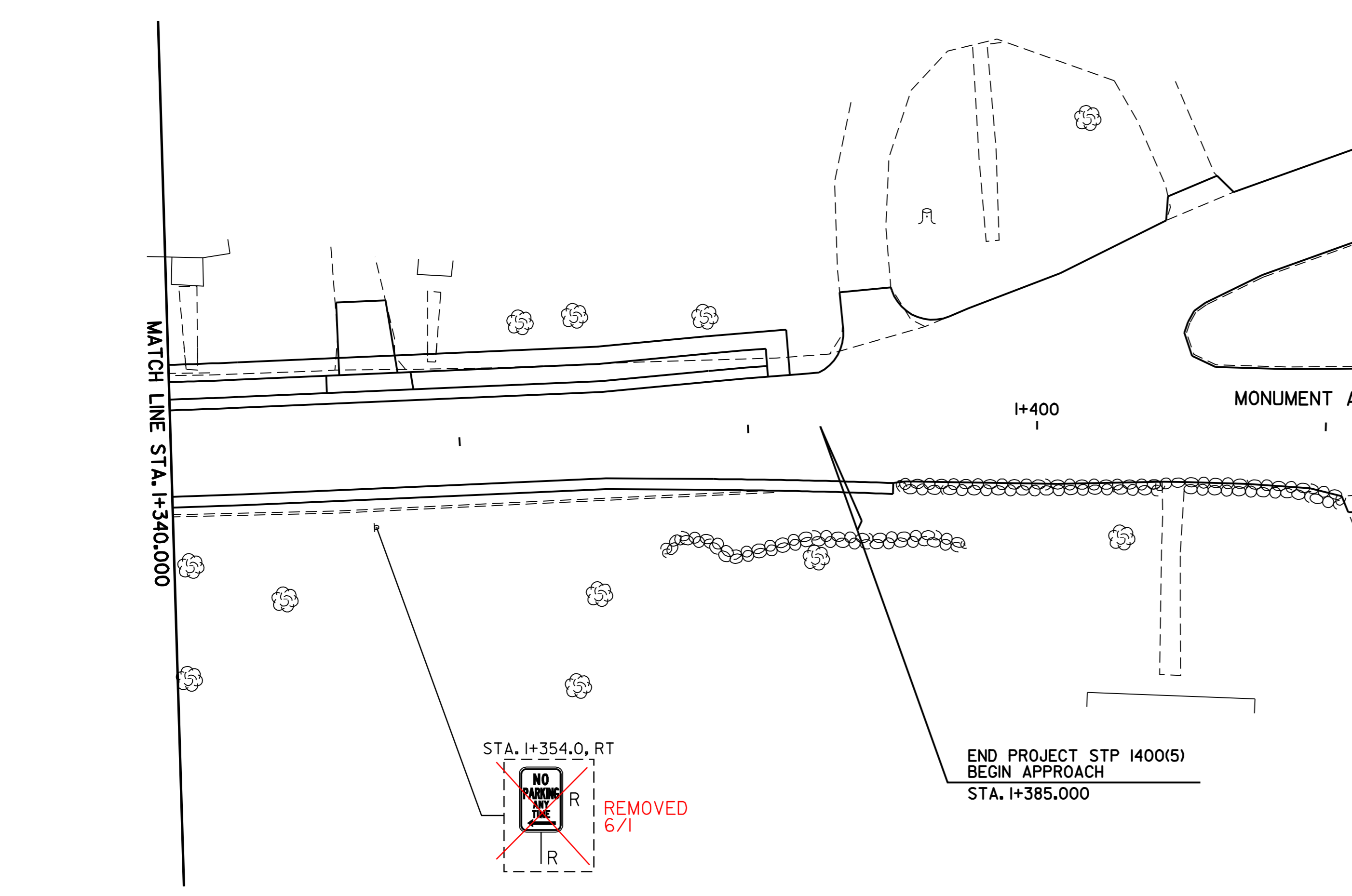
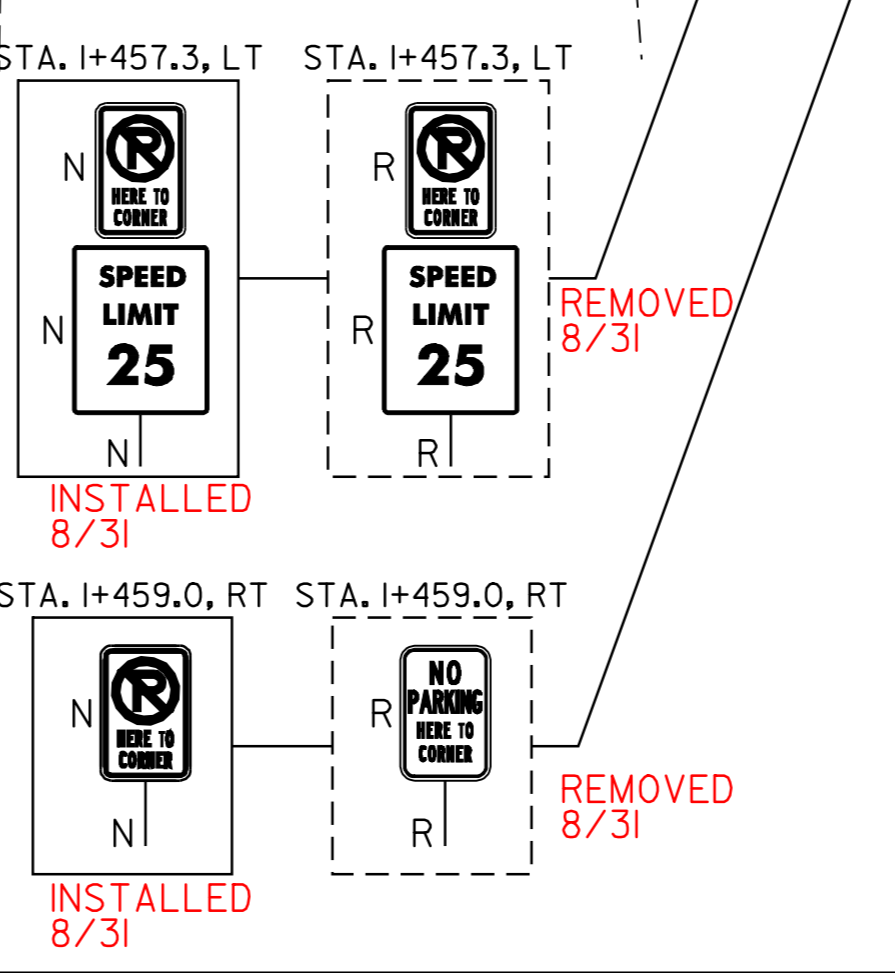
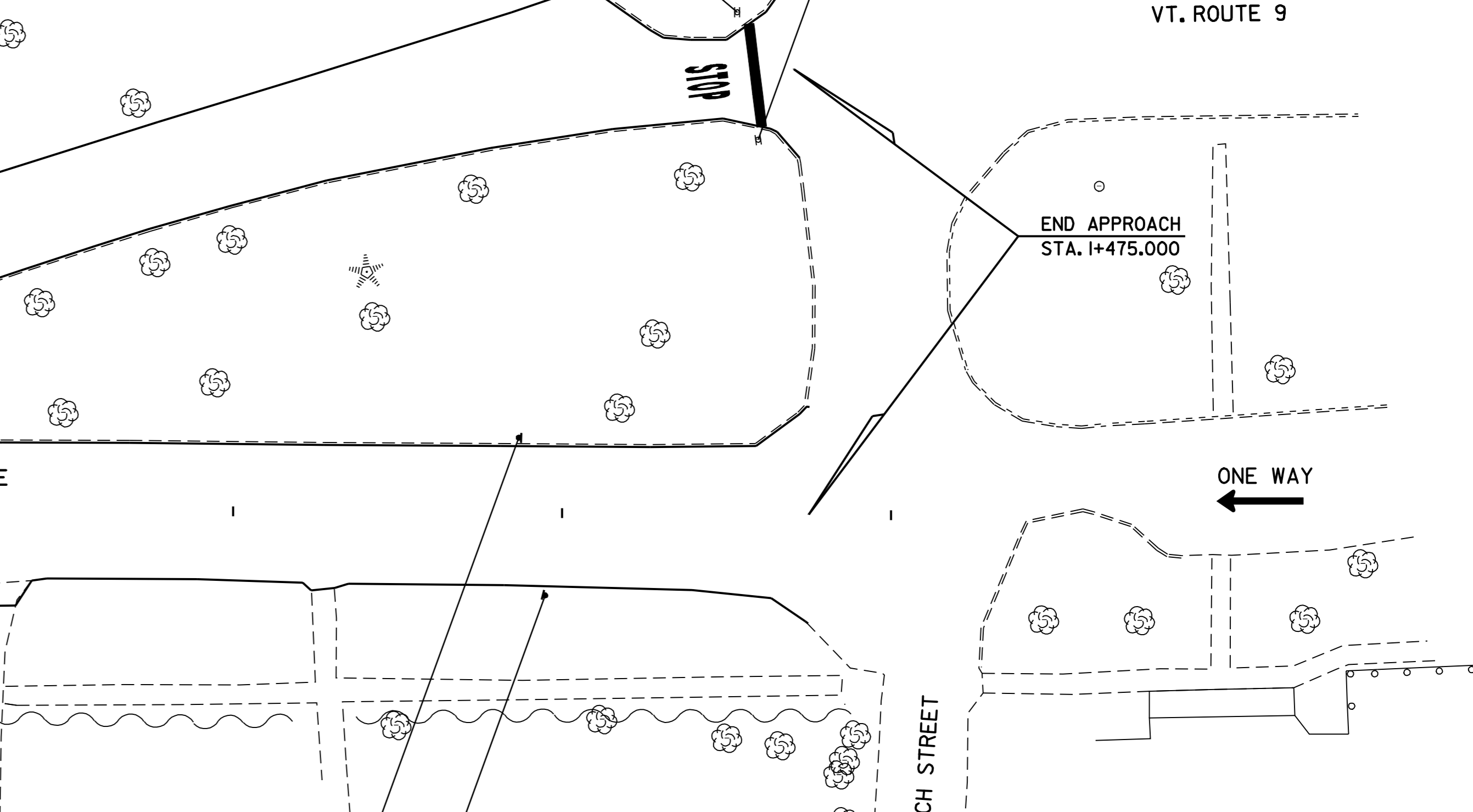
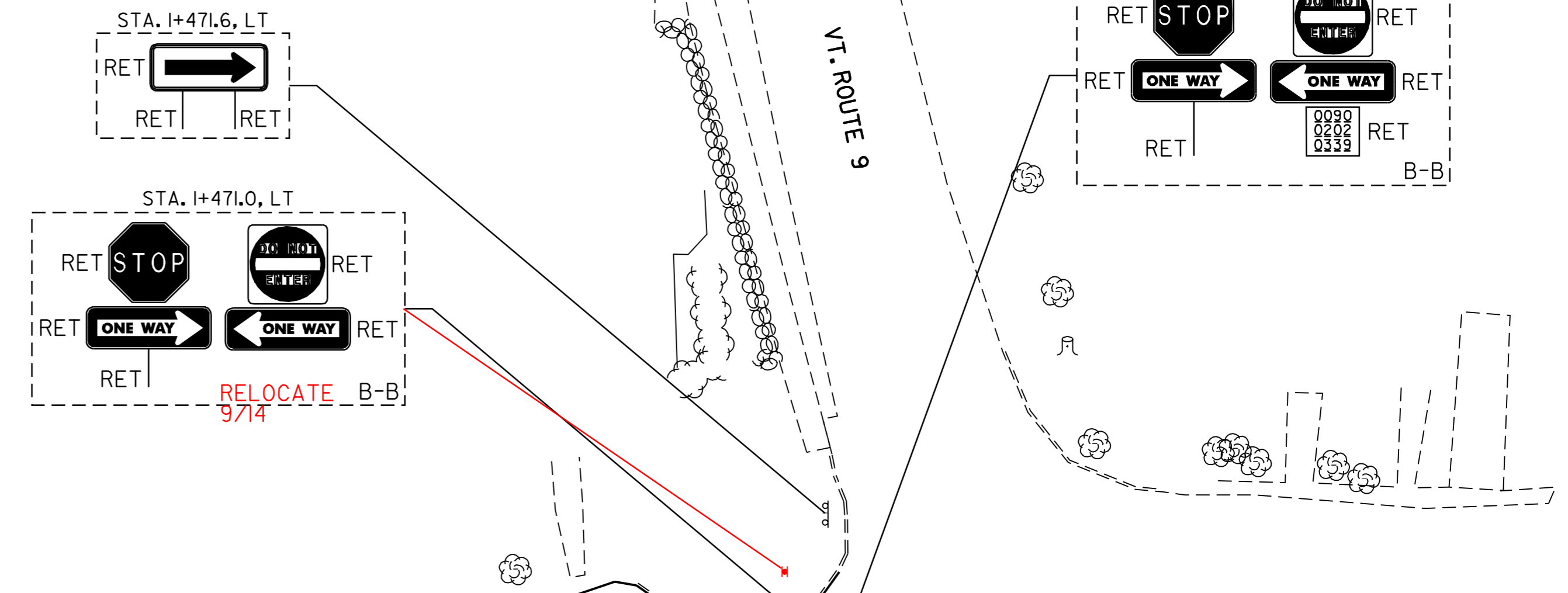
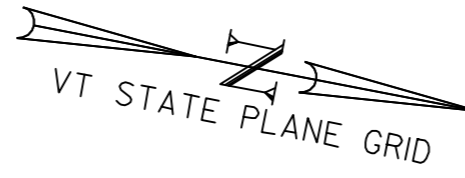
646.50 DURABLE LETTER OR SYMBOL (TYPE I TAPE)

STA. I+469.0 LT (S,T,O,P)

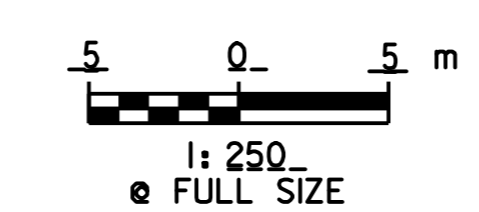
646.70 TEMPORARY LETTER OR SYMBOL

STA. I+469.0 LT (S,T,O,P)

675.60 ERECTING SALVAGED SIGN  
ARROW SIGN @ INTERSECTION W/ RTE 9  
REFER TO BOOK IA PAGE 60



**SIGN LEGEND**  
 R= REMOVE  
 S= SALVAGE  
 N= NEW  
 RET= RETAIN  
 B-B= BACK TO BACK  
 EXISTING=   
 NEW=   
 ① = RETURN TO VILLAGE OF OLD BENNINGTON



# SIGNING, STRIPING, AND PLAN SHEET #3

**VERMONT AGENCY OF TRANSPORTATION**

**CHA CLOUGH, HARBOUR & ASSOCIATES**  
 ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
 110 BROADWAY ALBANY, NEW YORK, 12208

PROJECT NAME: OLD BENNINGTON  
 PROJECT NUMBER: STP 1400(5)

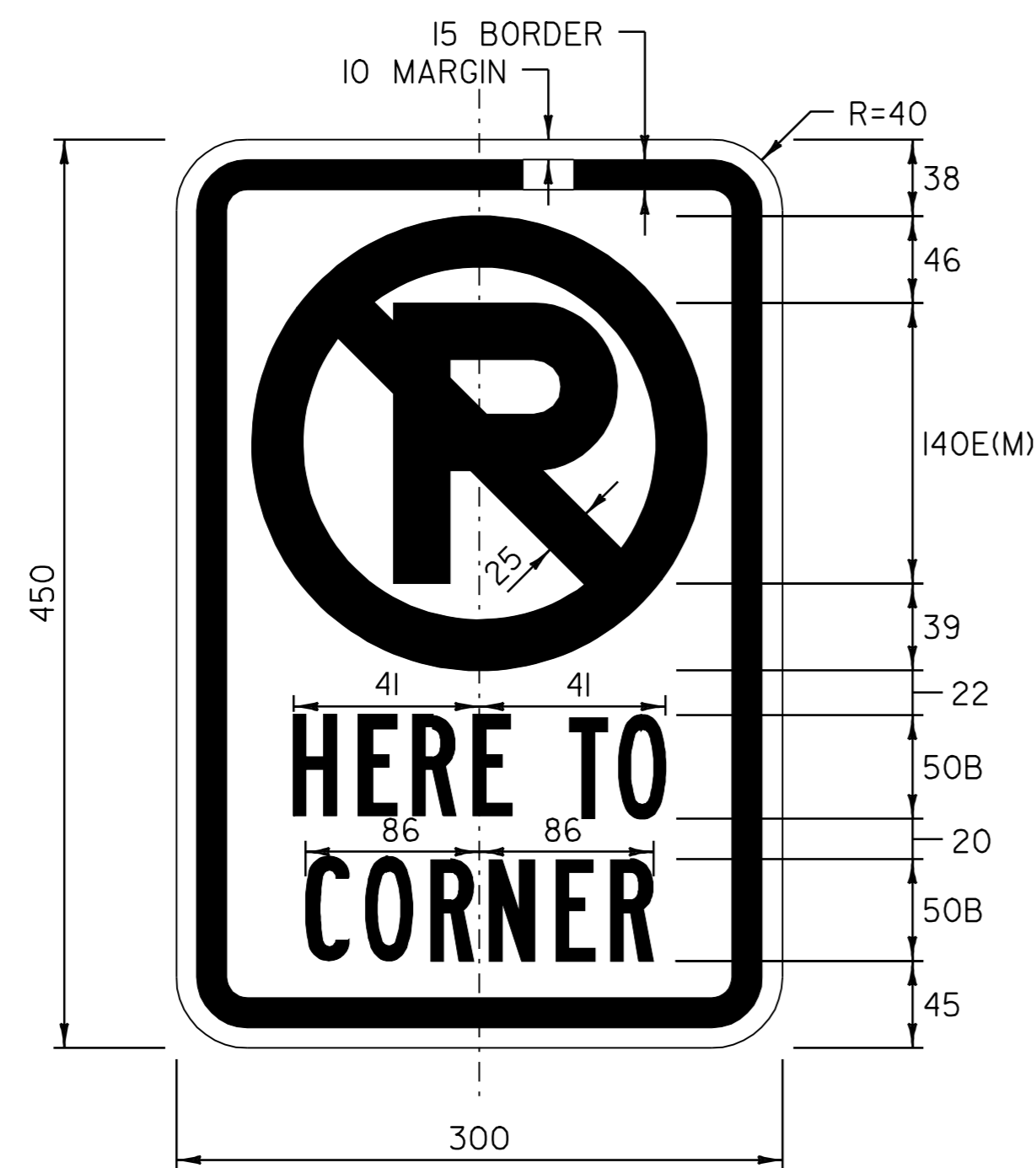
FILE NAME: /pave/97d228/p97d228.dgn  
 PROJECT LEADER: J.E.K.  
 DESIGNED BY: J.S.P.

PLOT DATE: 05-MAY-2008 14:00  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.E.G.  
 SHEET 23 OF 46

DATUM  
 VERTICAL: N/A  
 HORIZONTAL: NAD 83 (1996)



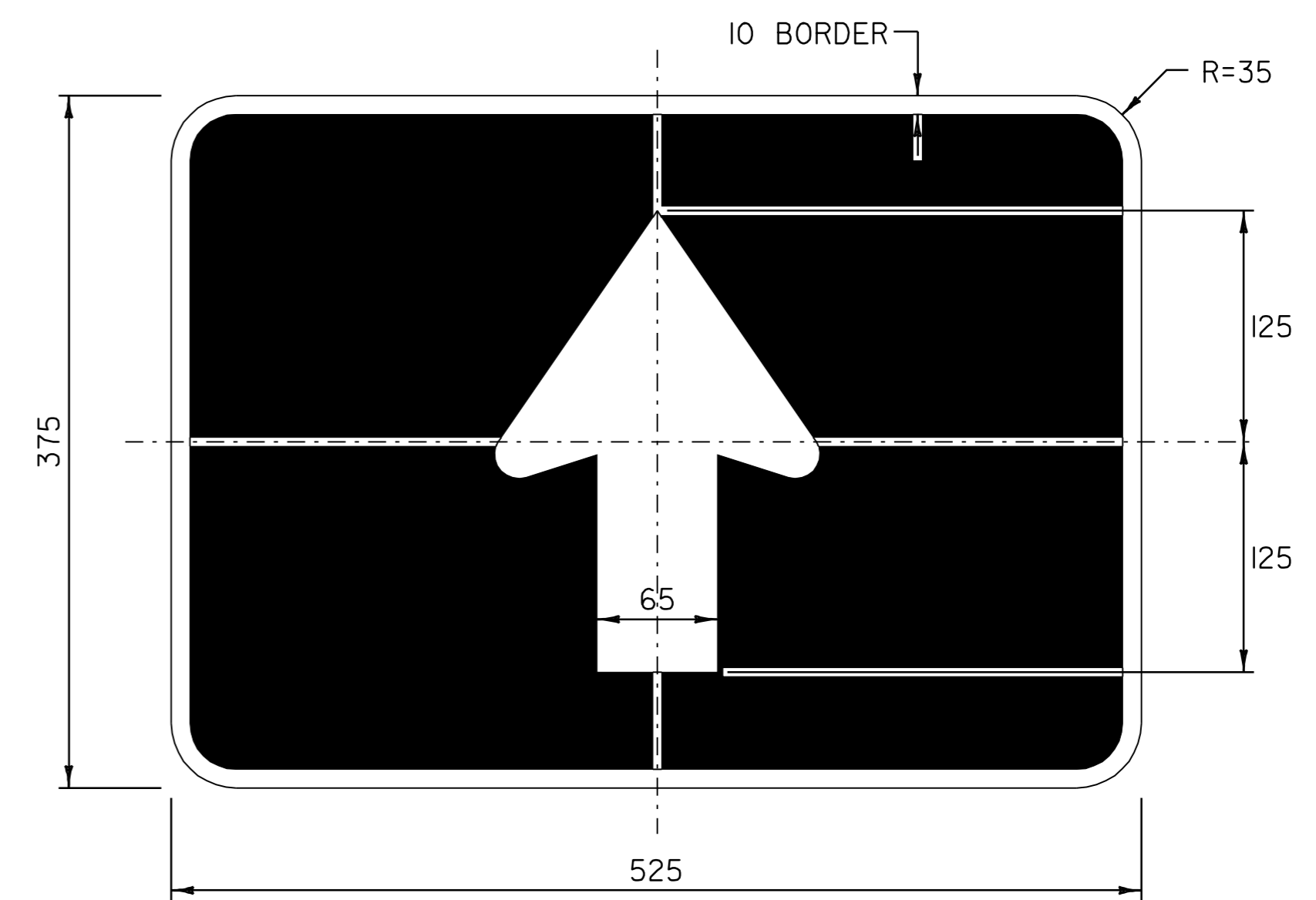




COLORS: RED BORDER, TEXT, CIRCLE & DIAGONAL  
 BLACK SYMBOL  
 WHITE BACKGROUND (REFLECTORIZED)

MATERIALS: PER VAOT STANDARD E-143

LOCATIONS: STA. I+457.3, LT  
 STA. I+459.0, RT



COLORS: WHITE BORDER & SYMBOL (REFLECTORIZED)  
 BLUE BACKGROUND (REFLECTORIZED)

MATERIALS: PER VAOT STANDARD E-132

LOCATIONS: STA. I+070.0, LT

ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED

**SIGN  
 DETAIL  
 SHEET**

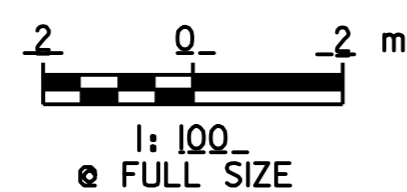
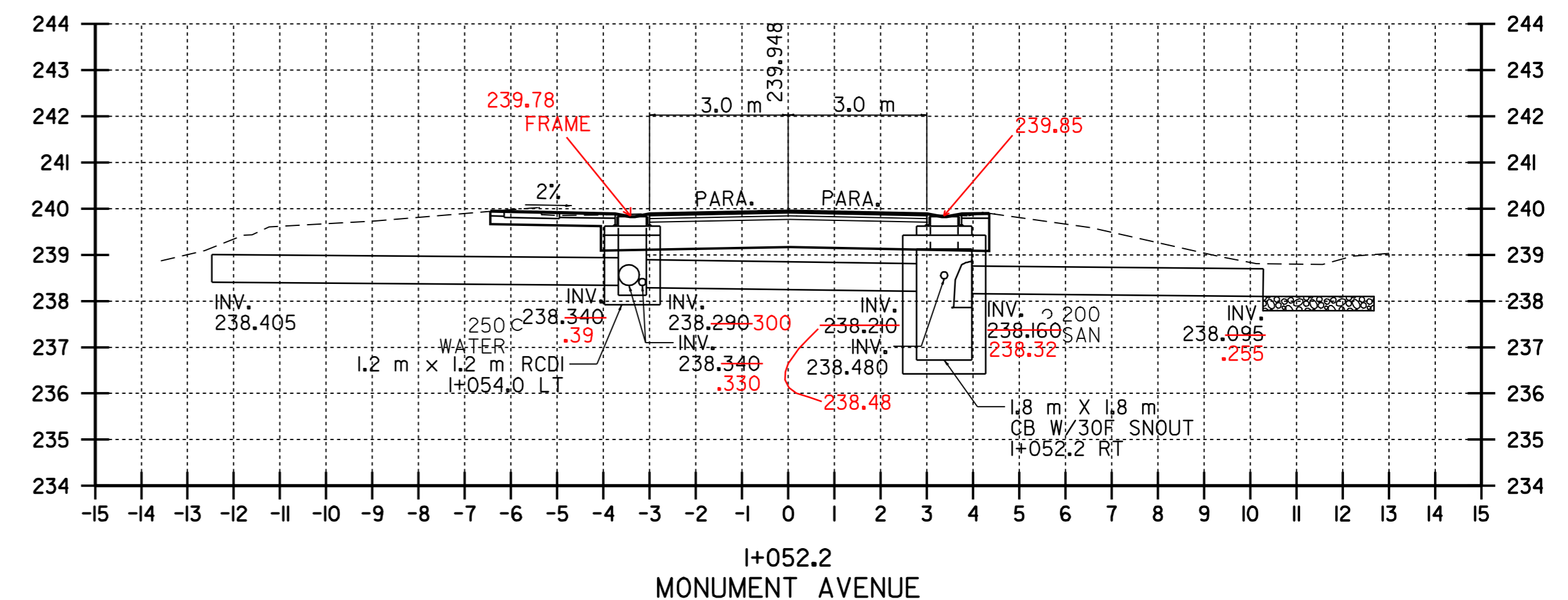
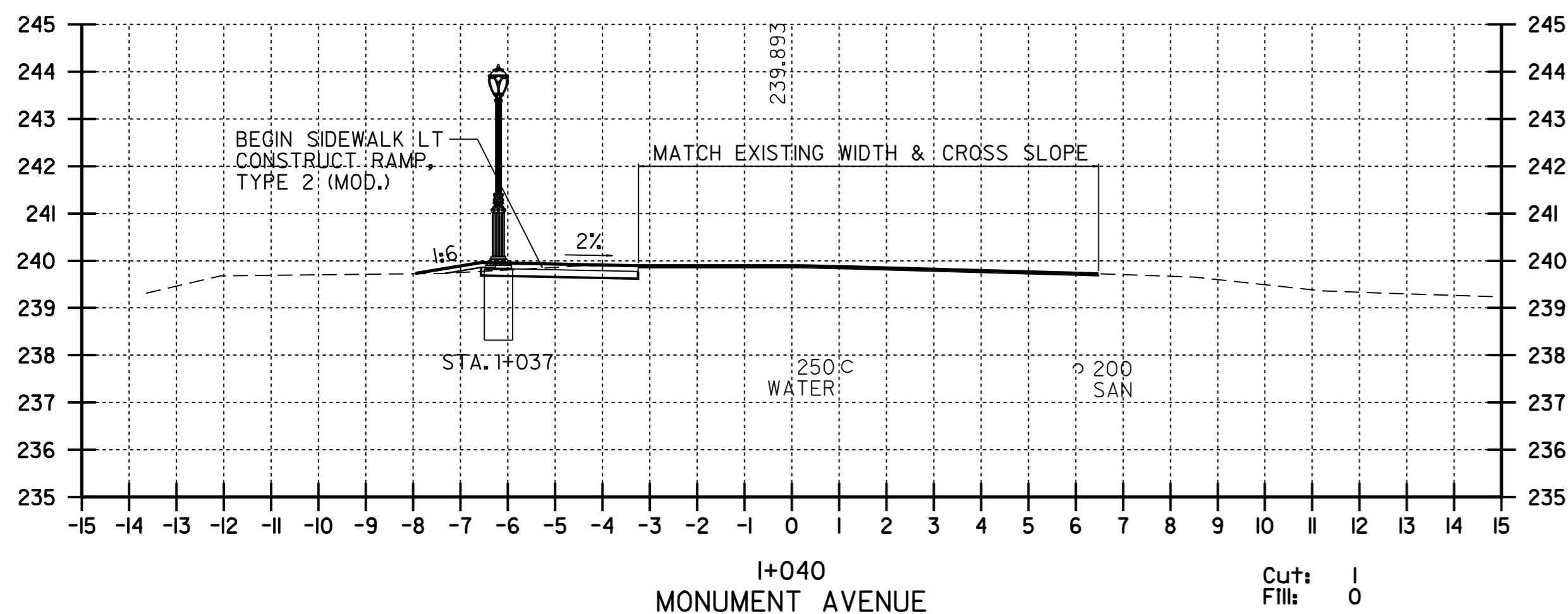
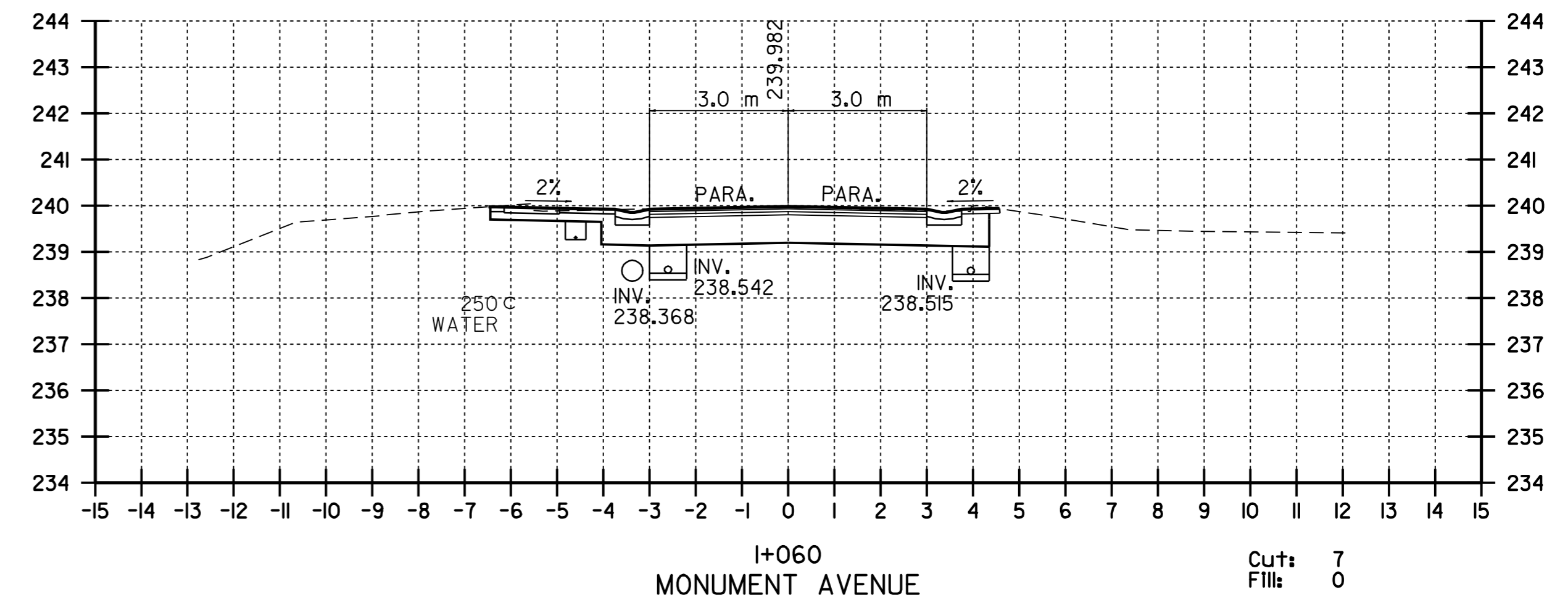
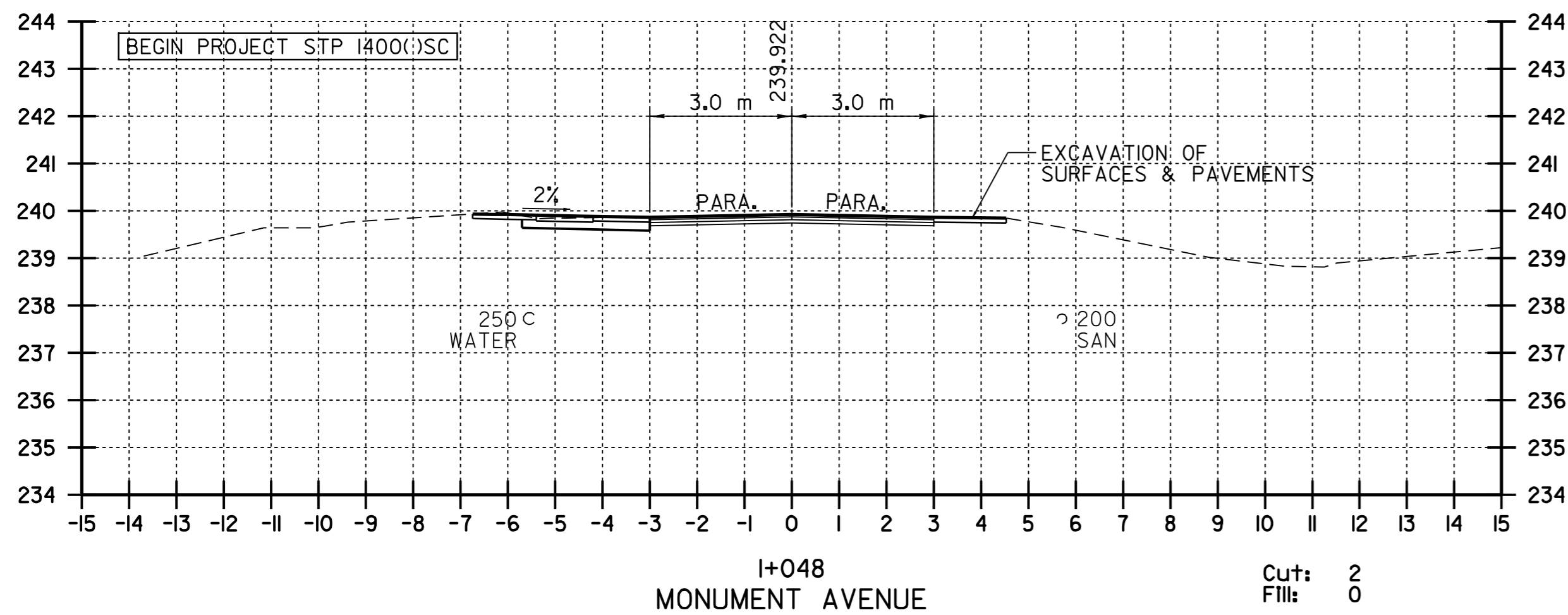
**VERMONT AGENCY OF TRANSPORTATION**



PROJECT NAME: OLD BENNINGTON  
 PROJECT NUMBER: STP 1400(5)

FILE NAME: /pave/97d228/p97d228.dgn  
 PROJECT LEADER: I.P.K.  
 DESIGNED BY: J.S.P.  
 p97d228tsds.i

PLOT DATE: 05-MAY-2008 14:  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.E.G.  
 SHEET 26 OF 46



# CROSS SECTION SHEET # 1

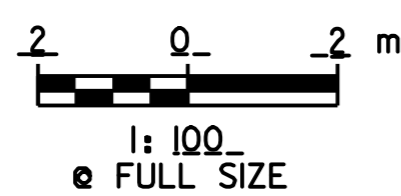
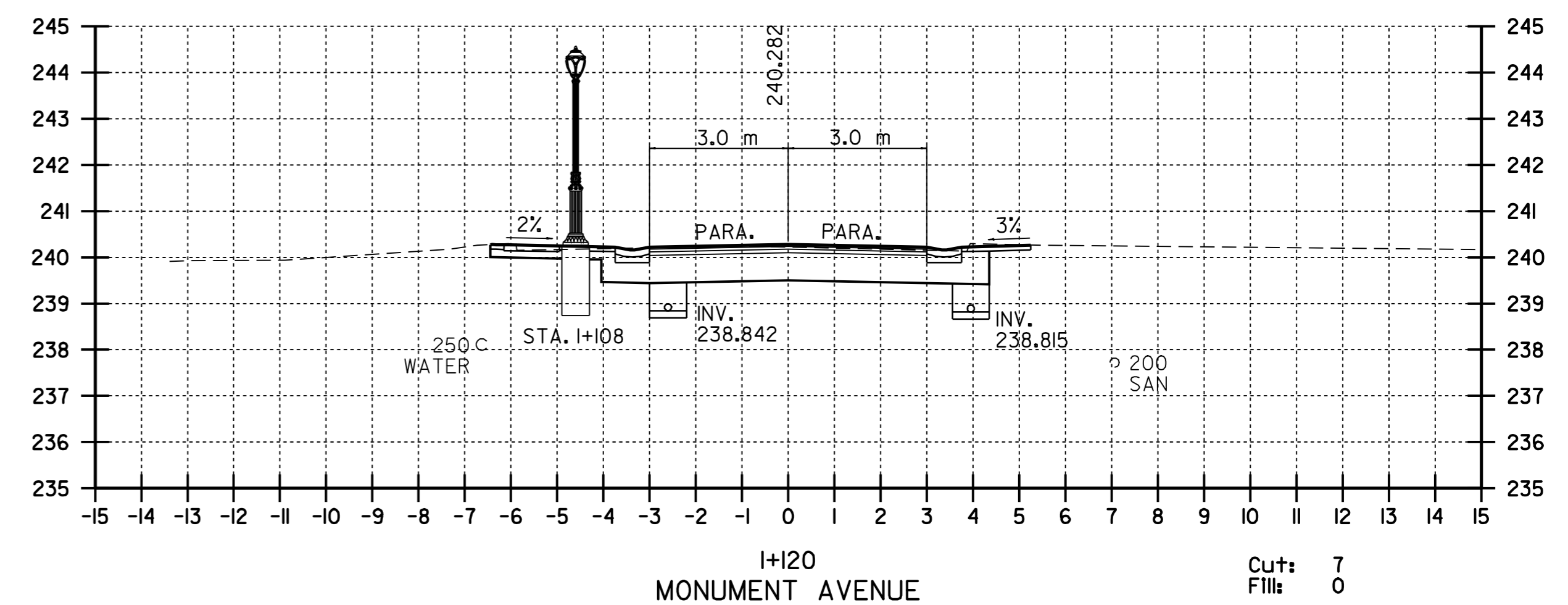
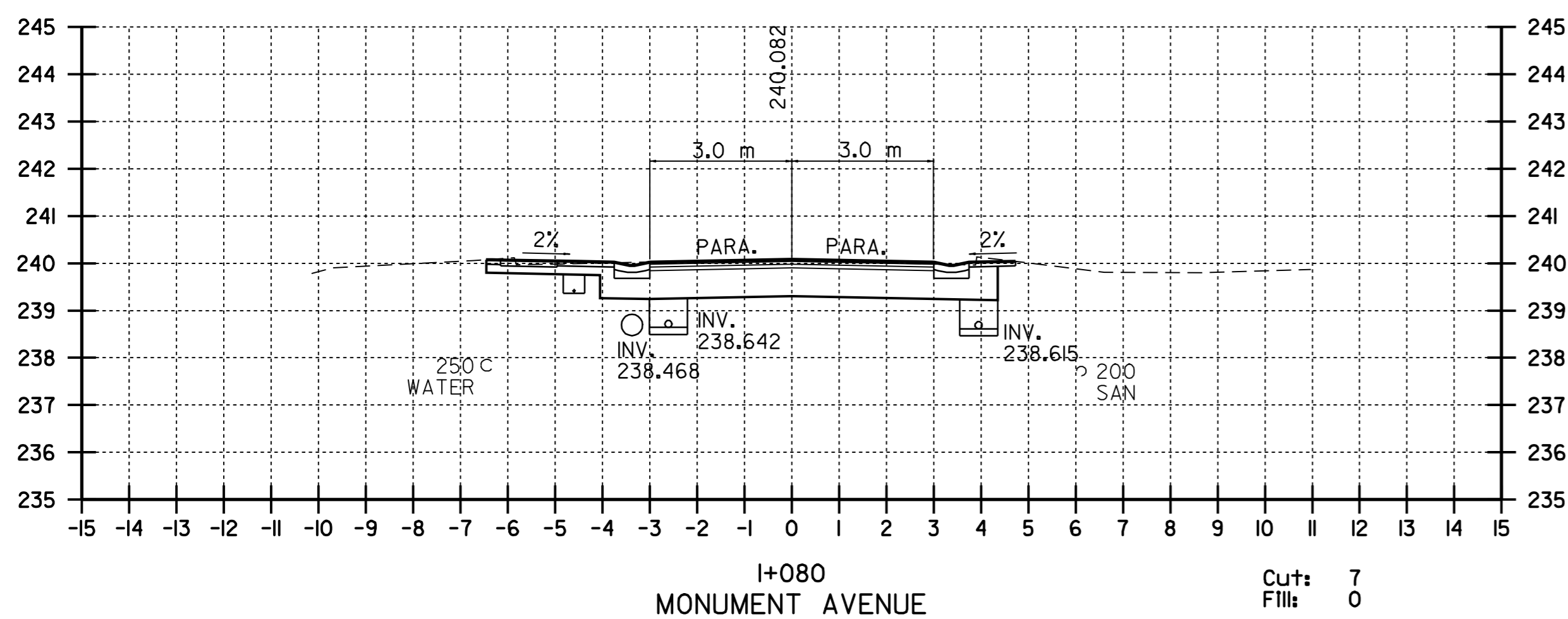
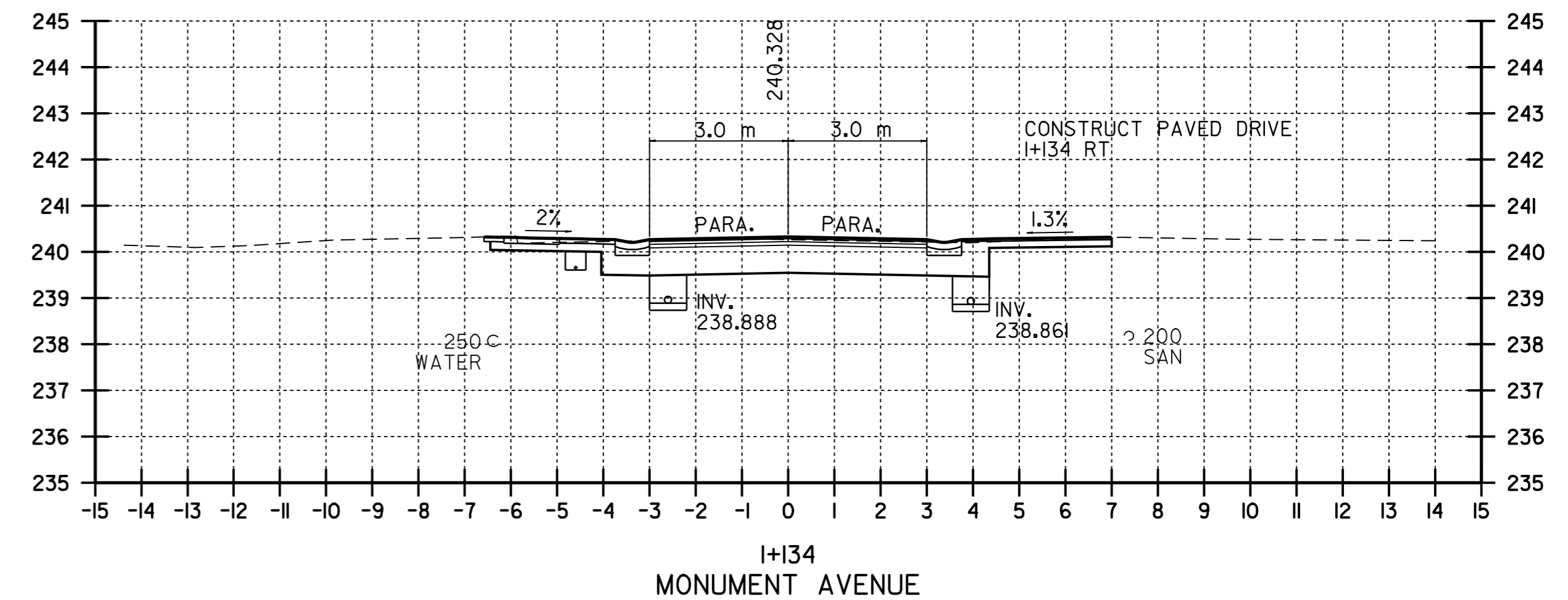
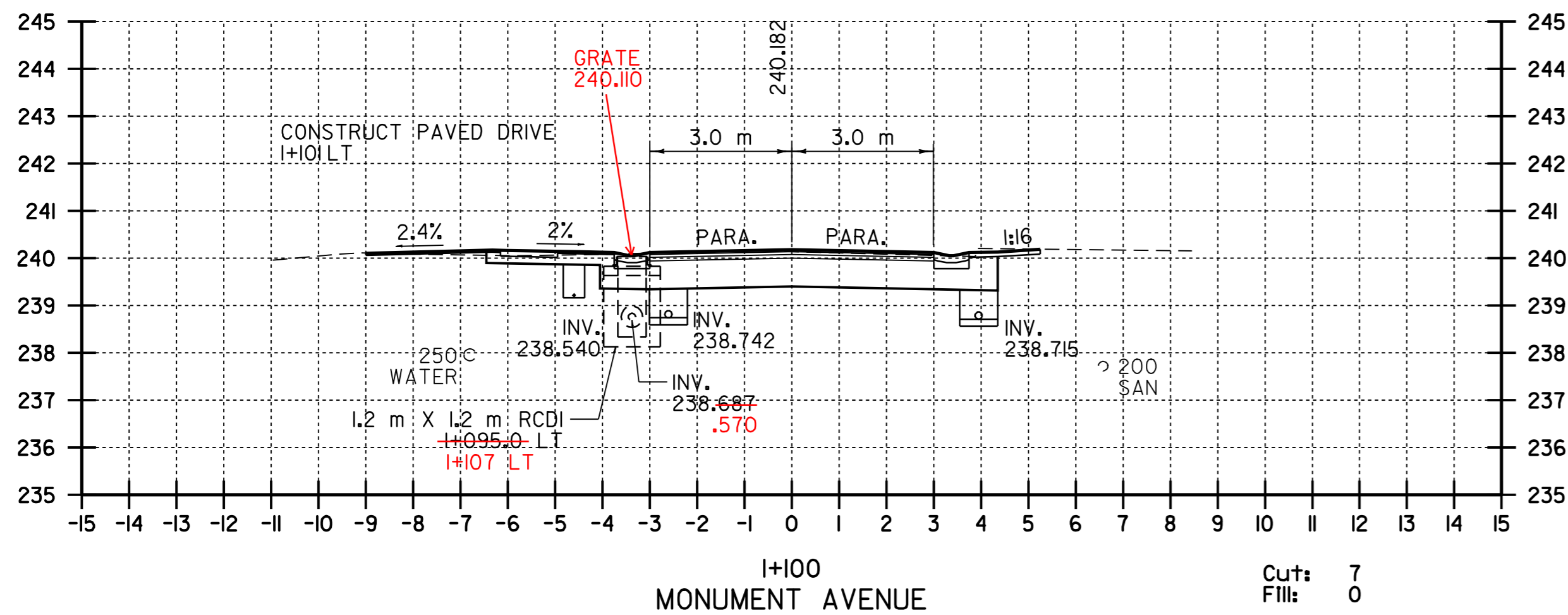
VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)  
FILE NAME: /pave/97d228/p97d228.dgn  
PROJECT LEADER: I.P.K.  
DESIGNED BY: J.S.P.  
PLOT DATE: 05-MAY-2008 14:  
DRAWN BY: C.A.K.  
CHECKED BY: D.E.G.  
SHEET 27 OF 46

DATUM  
VERTICAL: N/A  
HORIZONTAL: NAD 83 (1996)

NOTE:  
EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.



# CROSS SECTION SHEET # 2

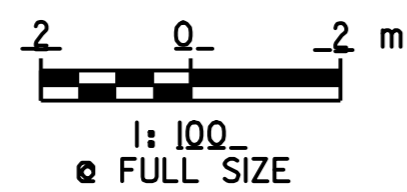
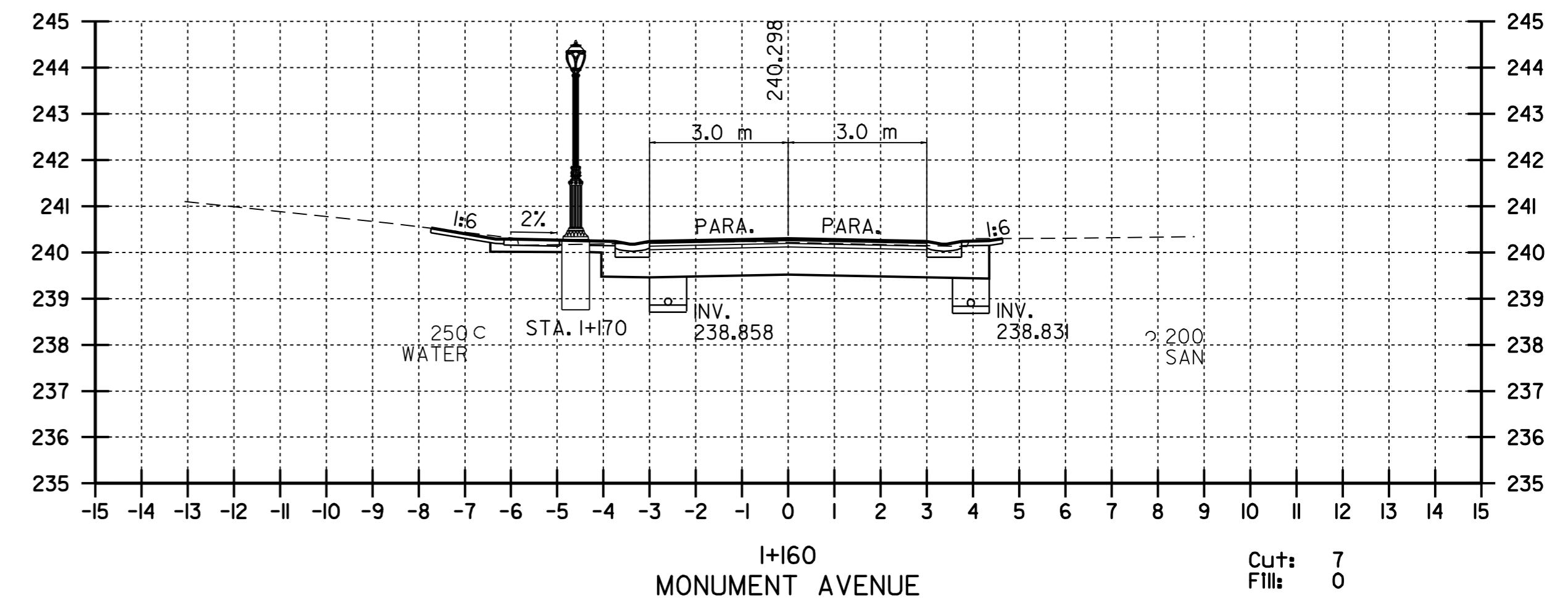
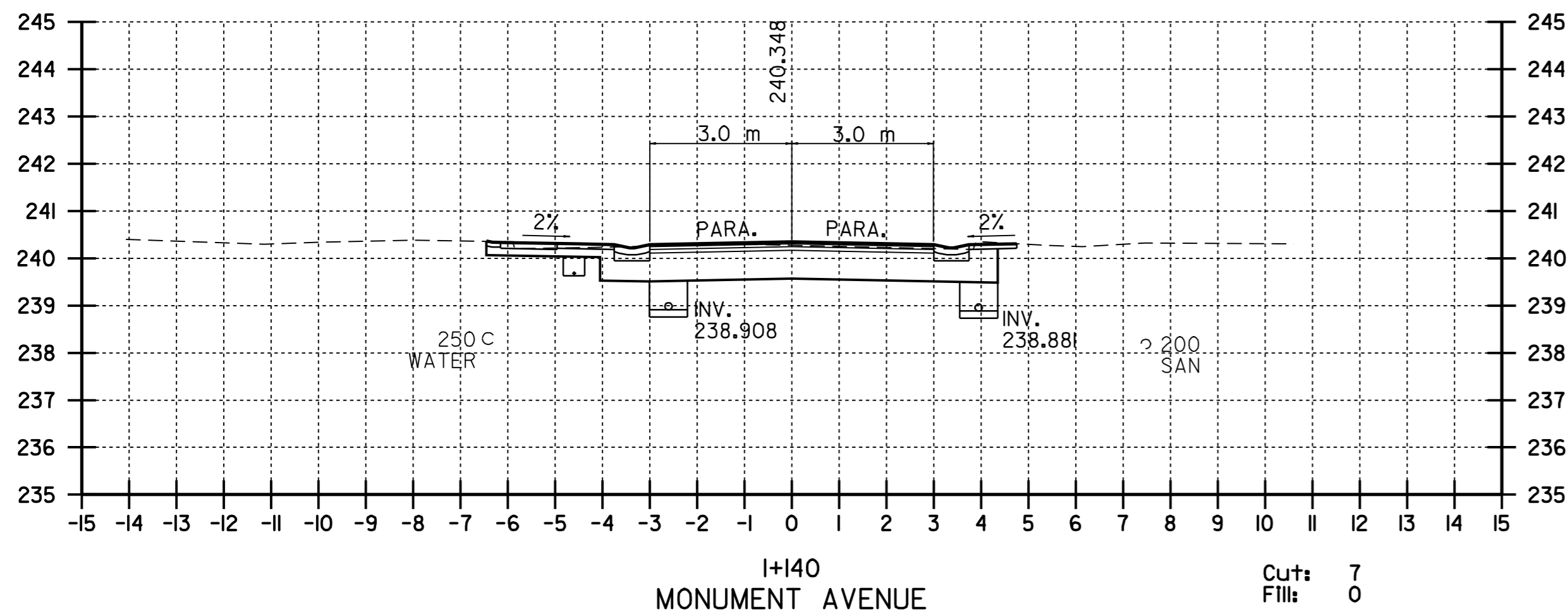
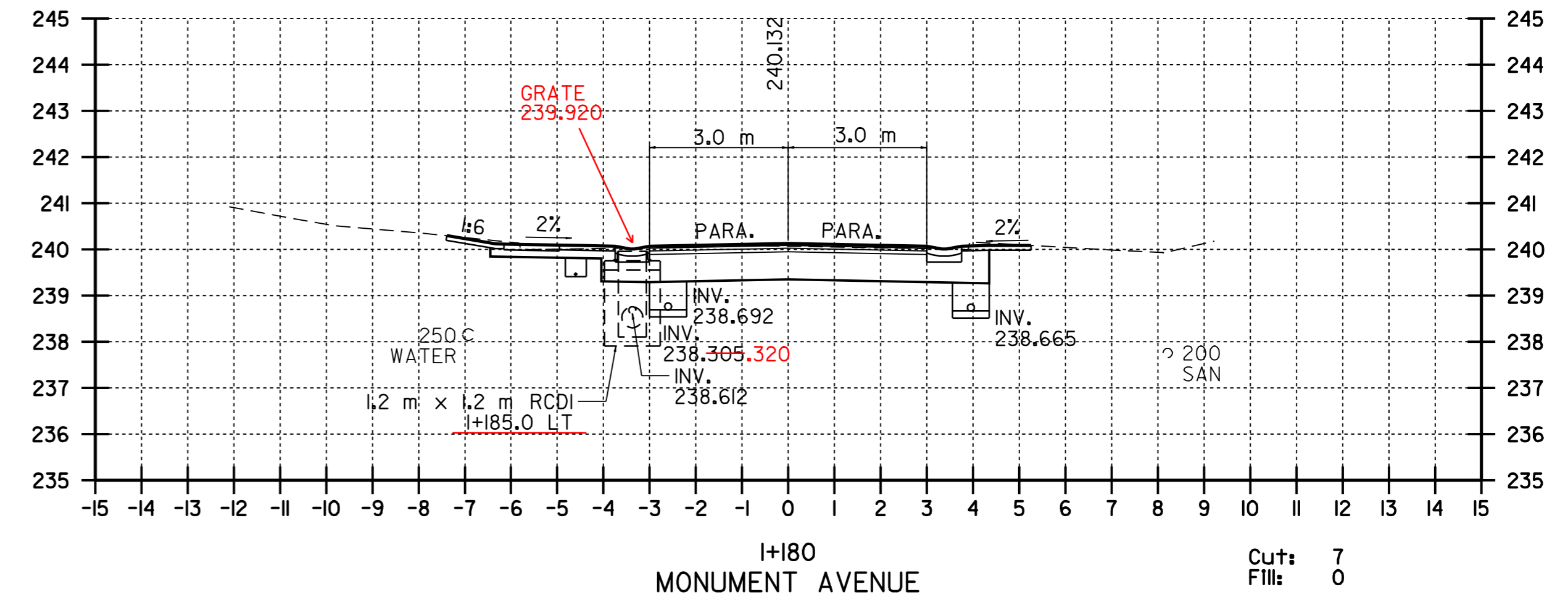
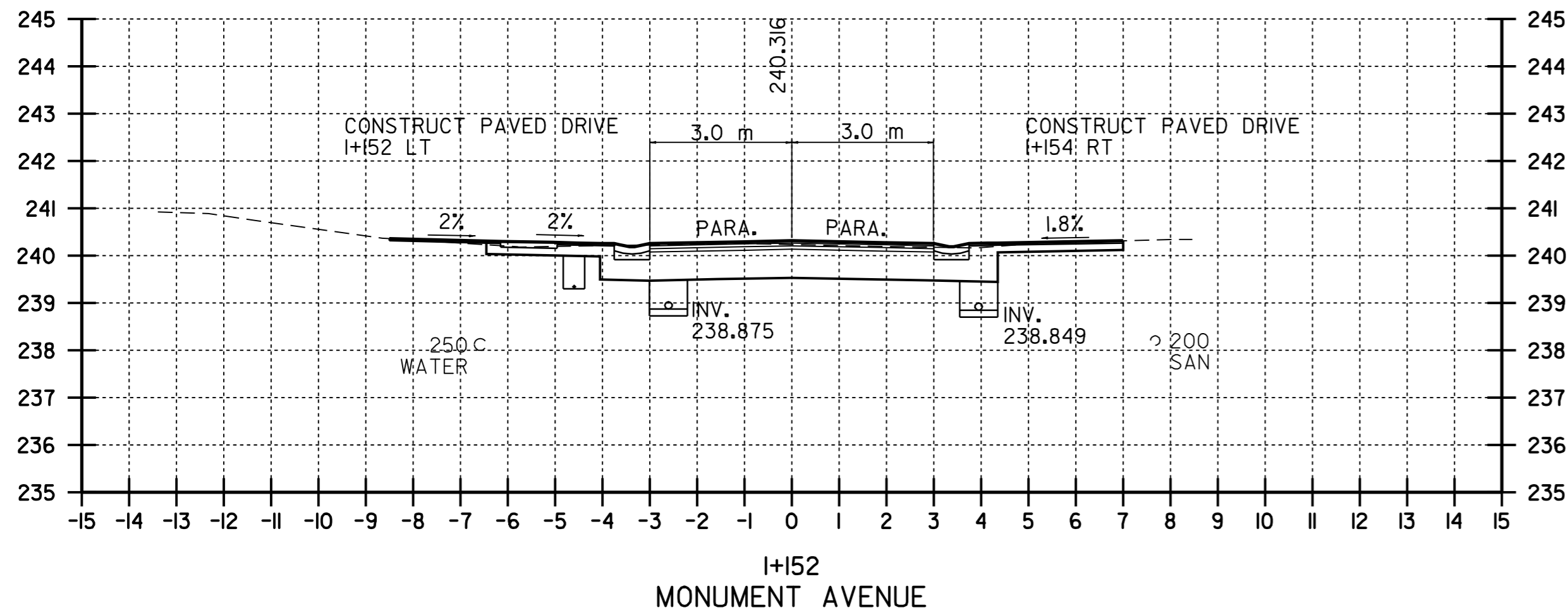
VERMONT AGENCY OF TRANSPORTATION

DATUM  
 VERTICAL N/A  
 HORIZONTAL NAD\_83 (1996)

NOTE:  
 EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.



PROJECT NAME: OLD BENNINGTON  
 PROJECT NUMBER: STP 1400(5)  
 FILE NAME: /pave/97d228/p97d228.dgn  
 PROJECT LEADER: J.E.K.  
 DESIGNED BY: J.S.P.  
 PLOT DATE: 05-MAY-2008 14:  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.E.G.  
 SHEET 28 OF 46



NOTE:

EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.

# CROSS SECTION SHEET # 3

VERMONT AGENCY OF TRANSPORTATION

**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
11 WARRIORS CIRCLE ALBANY, NEW YORK, 12205

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

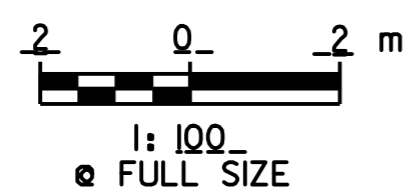
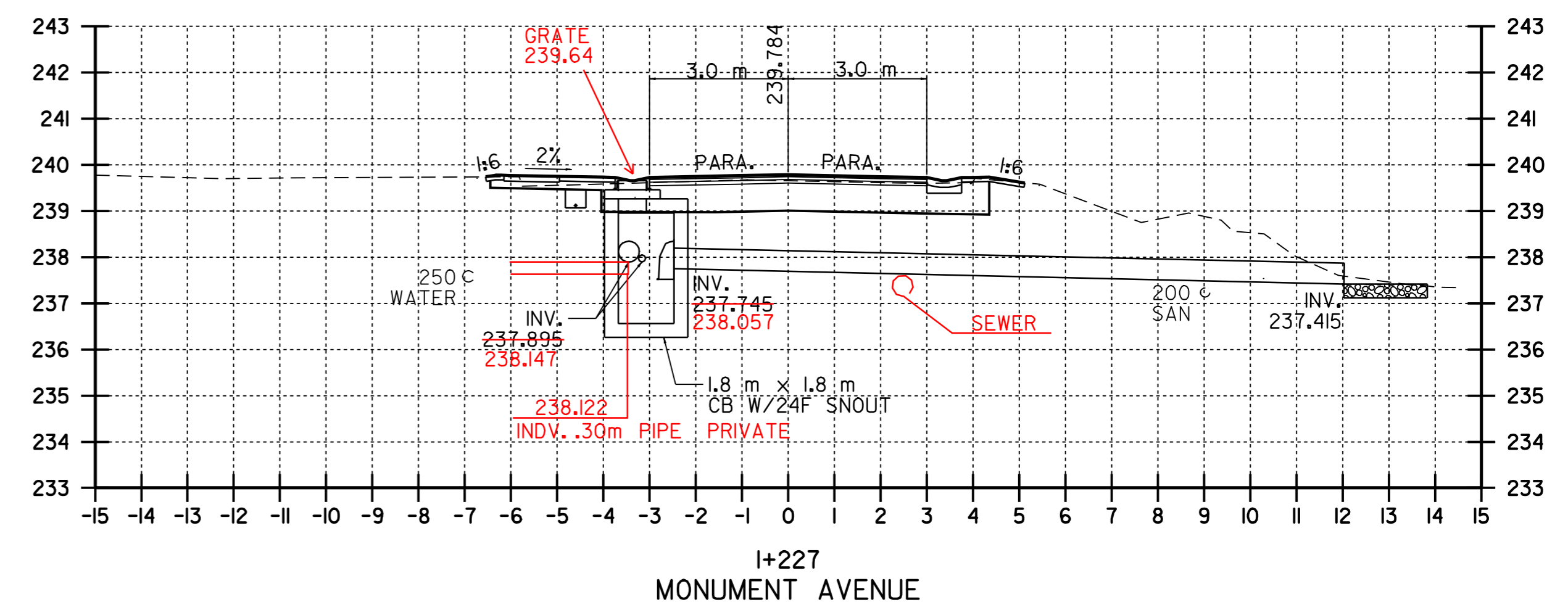
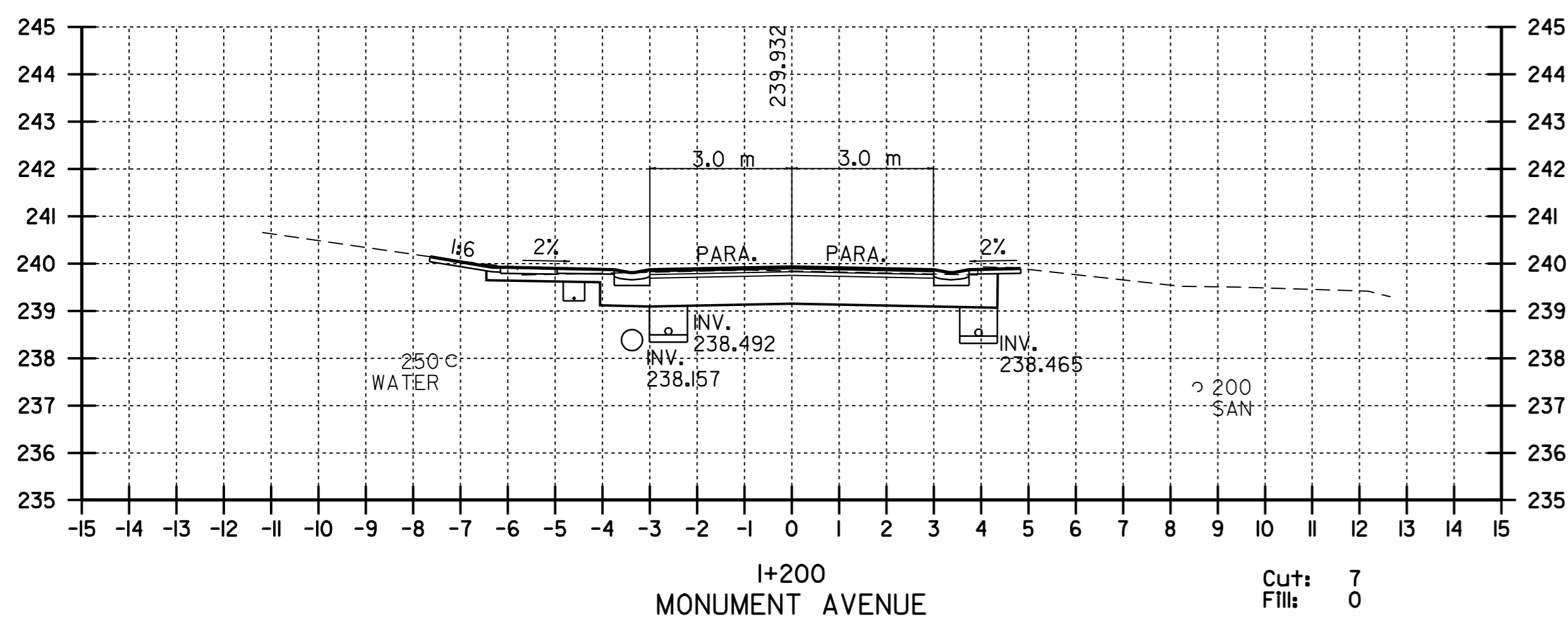
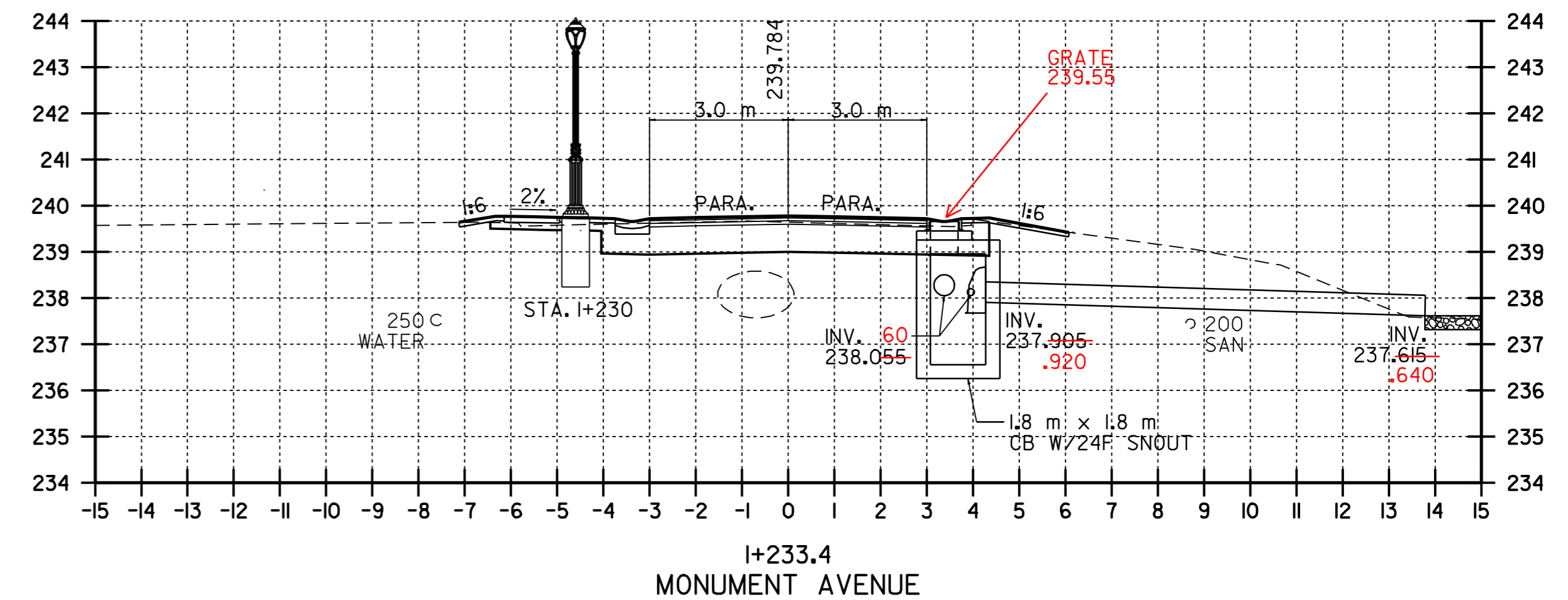
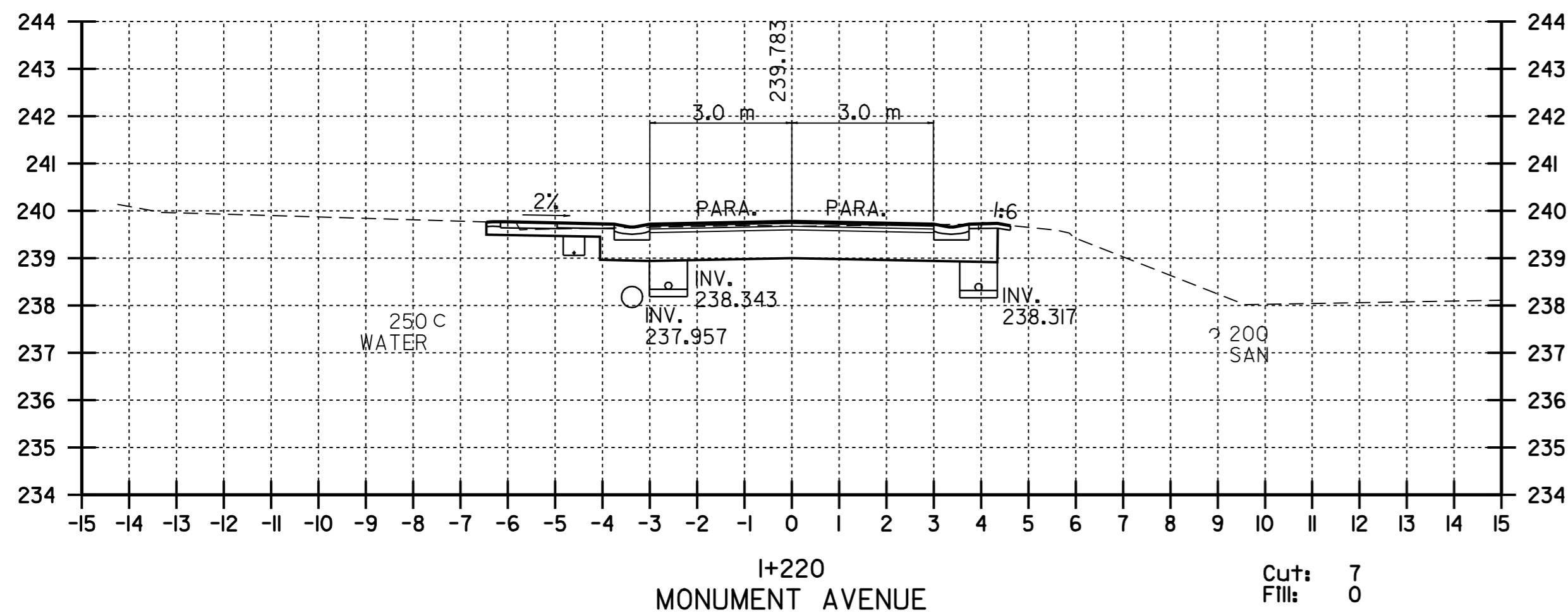
FILE NAME: /pave/97d228/p97d228.dgn  
PROJECT LEADER: J.P.K.  
DESIGNED BY: J.S.P.  
p97d228css3.i

PLOT DATE: 05-MAY-2008 14:  
DRAWN BY: C.A.K.  
CHECKED BY: D.E.G.  
SHEET 29 OF 46

DATUM  
VERTICAL: N/A  
HORIZONTAL: NAD 83 (1996)

Cut: 7  
Fill: 0

Cut: 7  
Fill: 0



# CROSS SECTION SHEET # 4

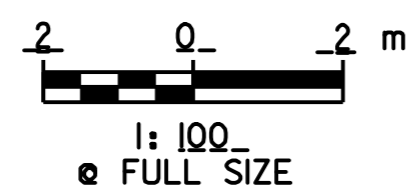
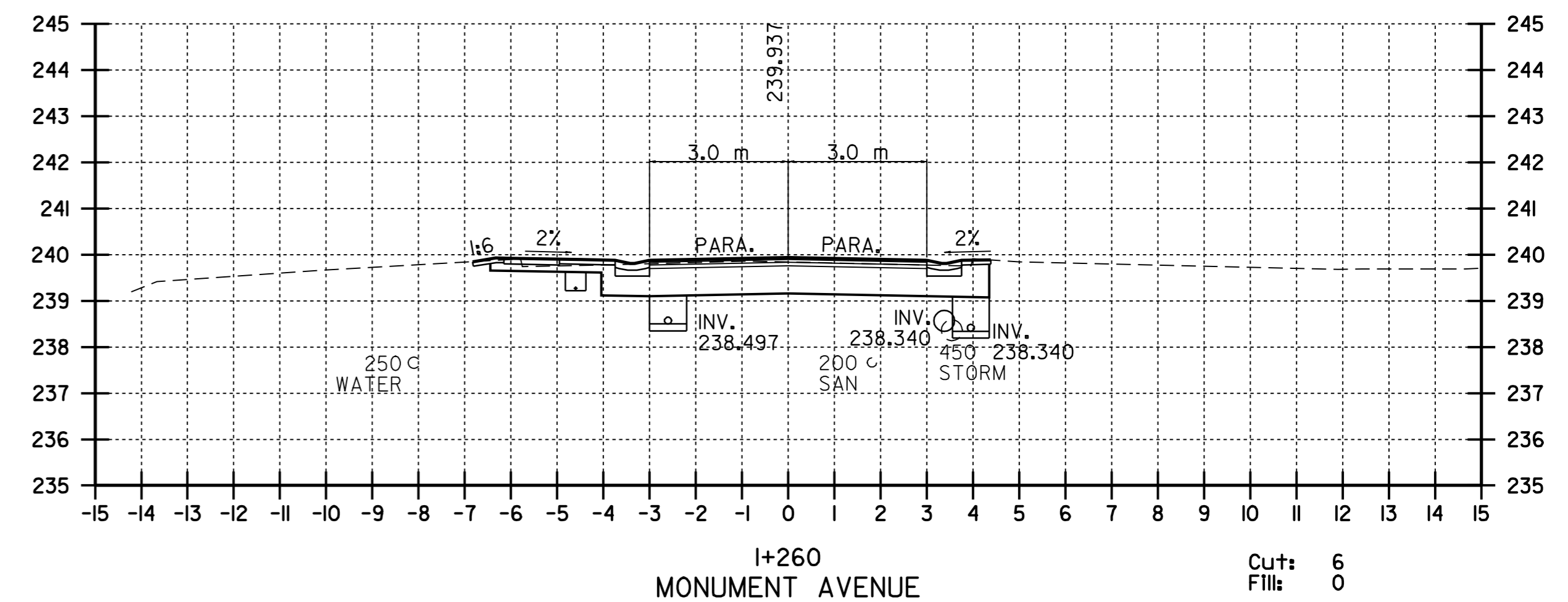
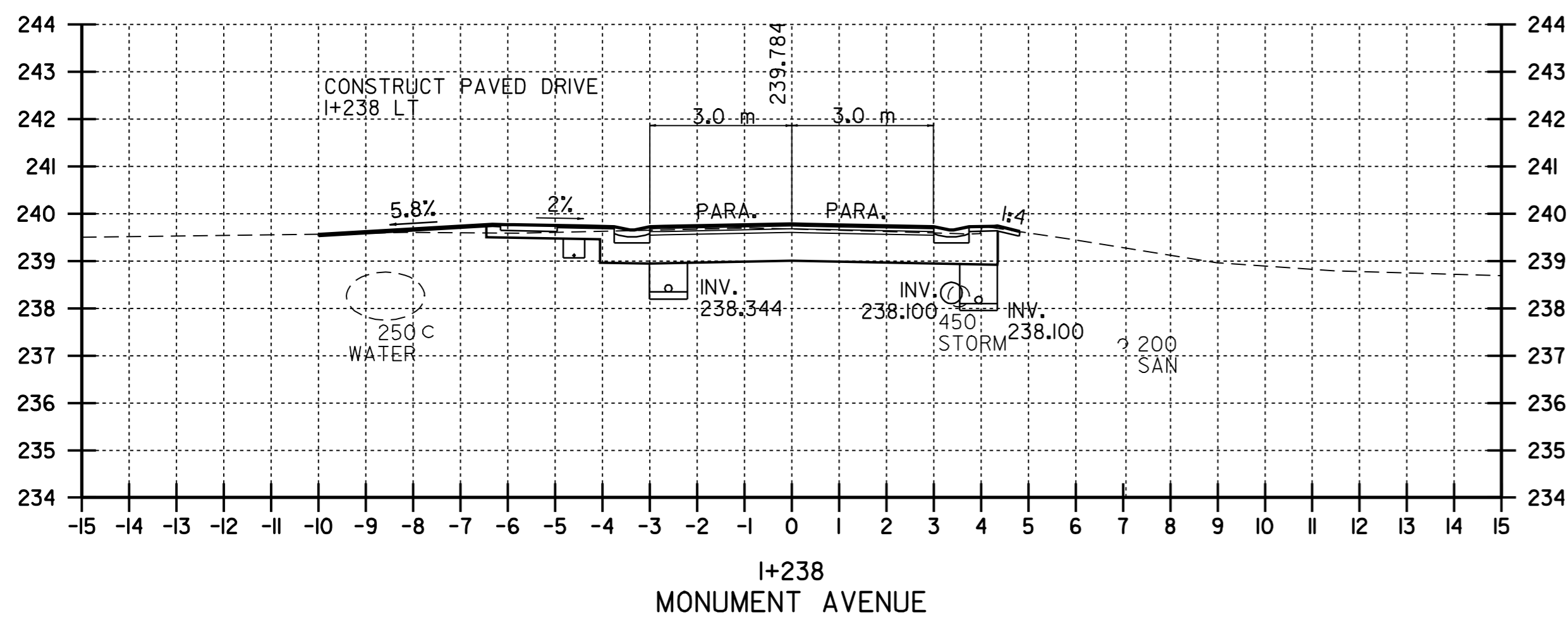
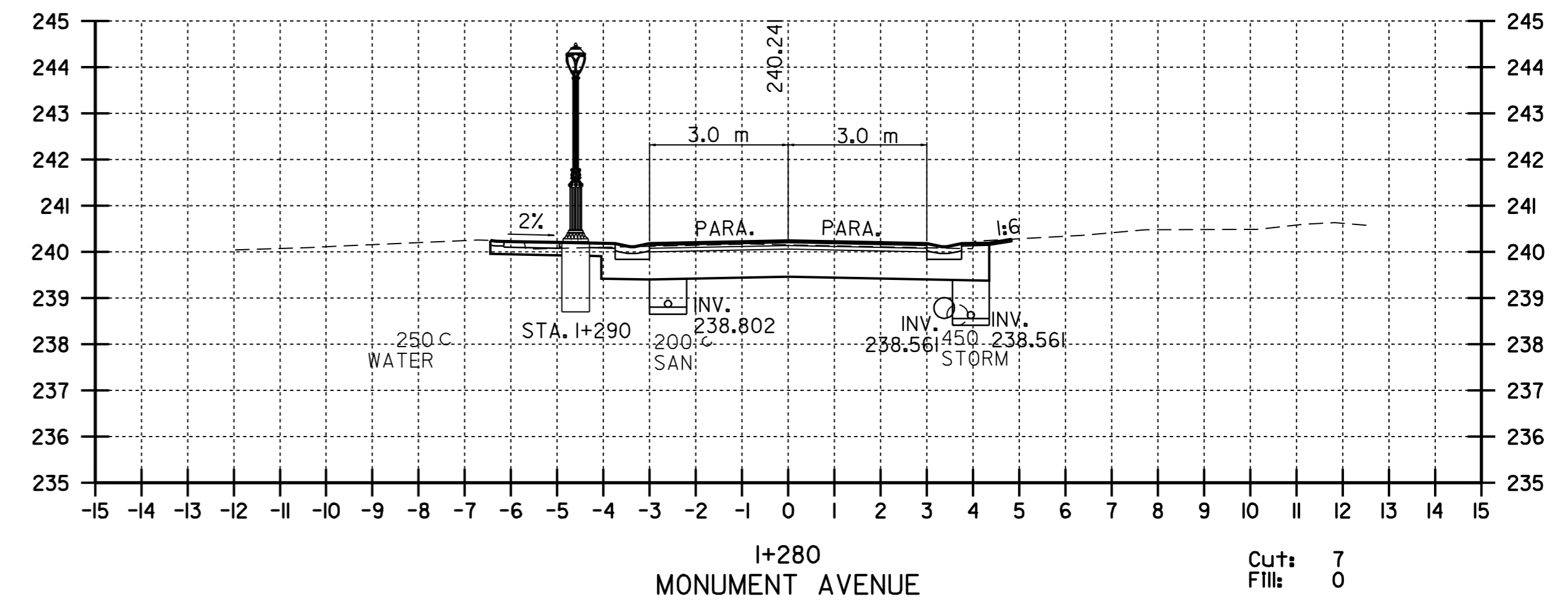
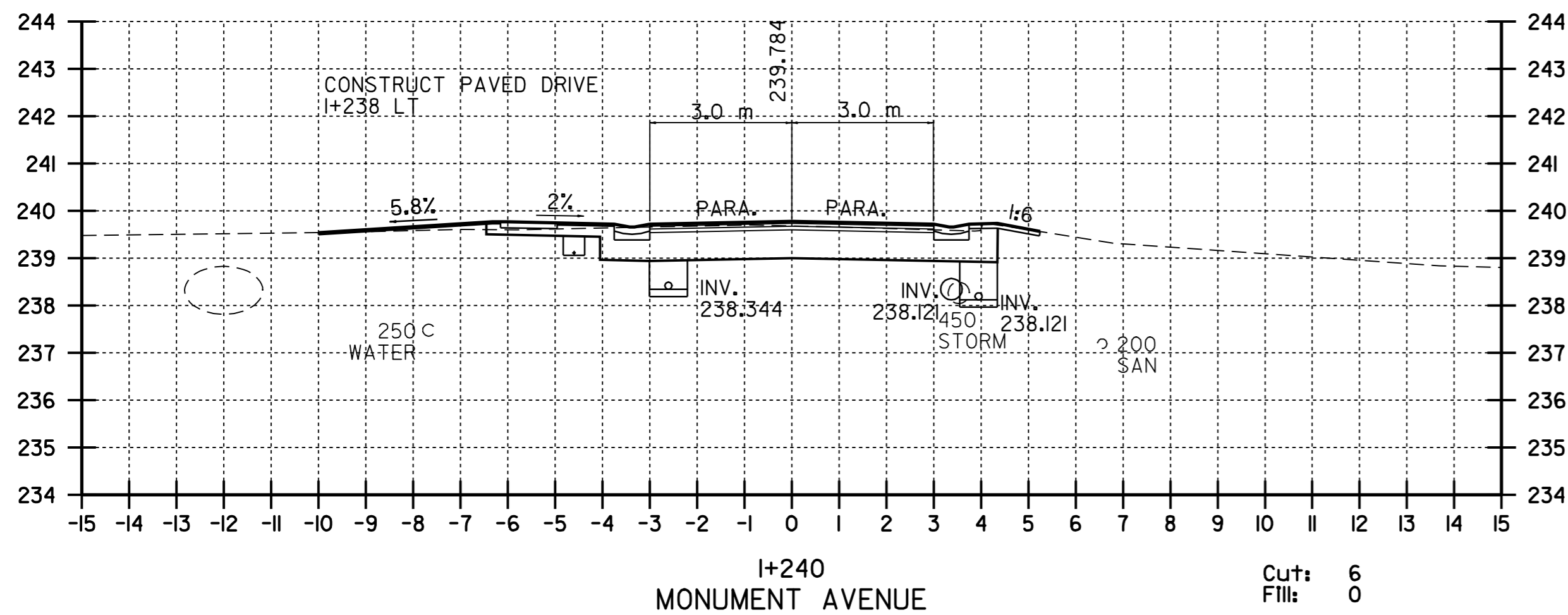
## VERMONT AGENCY OF TRANSPORTATION

DATUM  
 VERTICAL N/A  
 HORIZONTAL NAD\_83 (1996)

NOTE:  
 EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.

**CHA** CLOUGH, HARBOUR & ASSOCIATES  
 ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
 11 WARRIORS CIRCLE ALBANY, NEW YORK, 12205

PROJECT NAME: OLD BENNINGTON  
 PROJECT NUMBER: STP 1400(5)  
 FILE NAME: /pdve/97d228/p97d228.dgn  
 PROJECT LEADER: I.E.K.  
 DESIGNED BY: J.S.P.  
 PLOT DATE: 05-MAY-2008 14:  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.E.G.  
 SHEET 30 OF 46

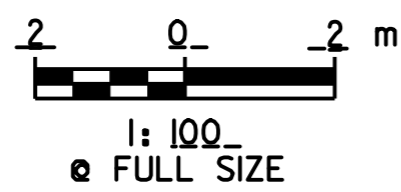
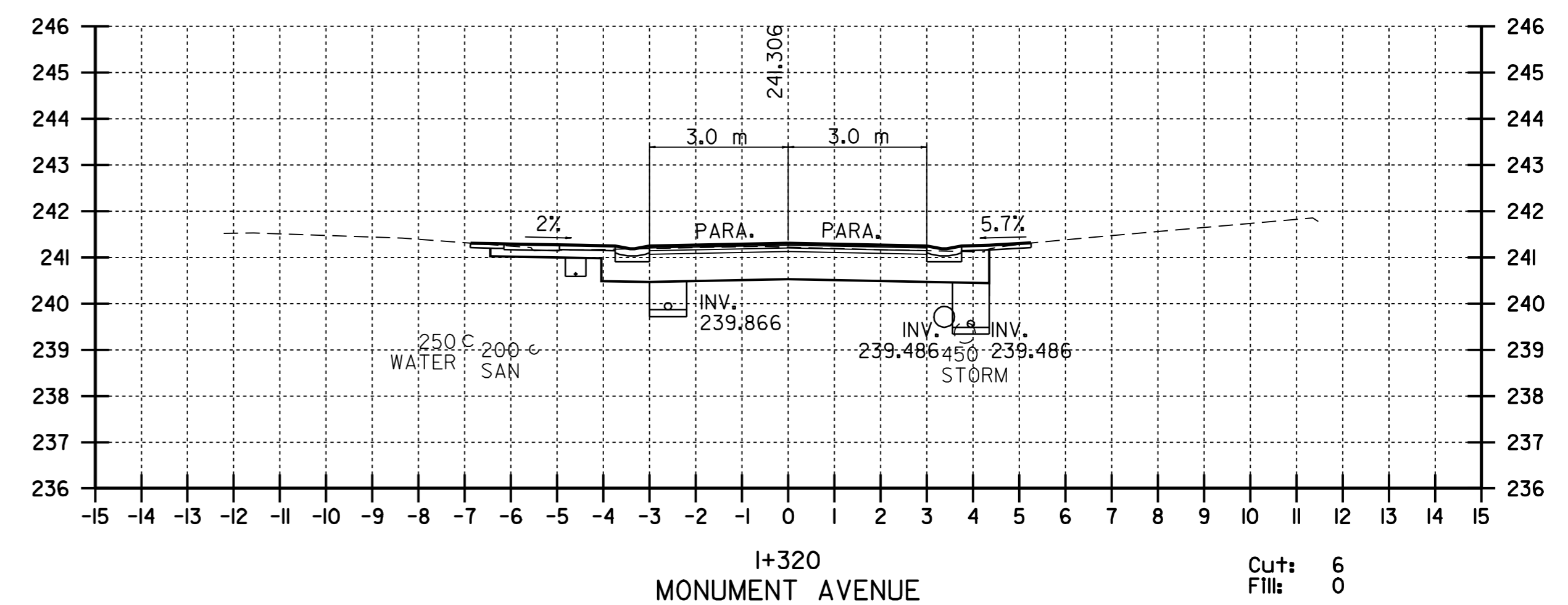
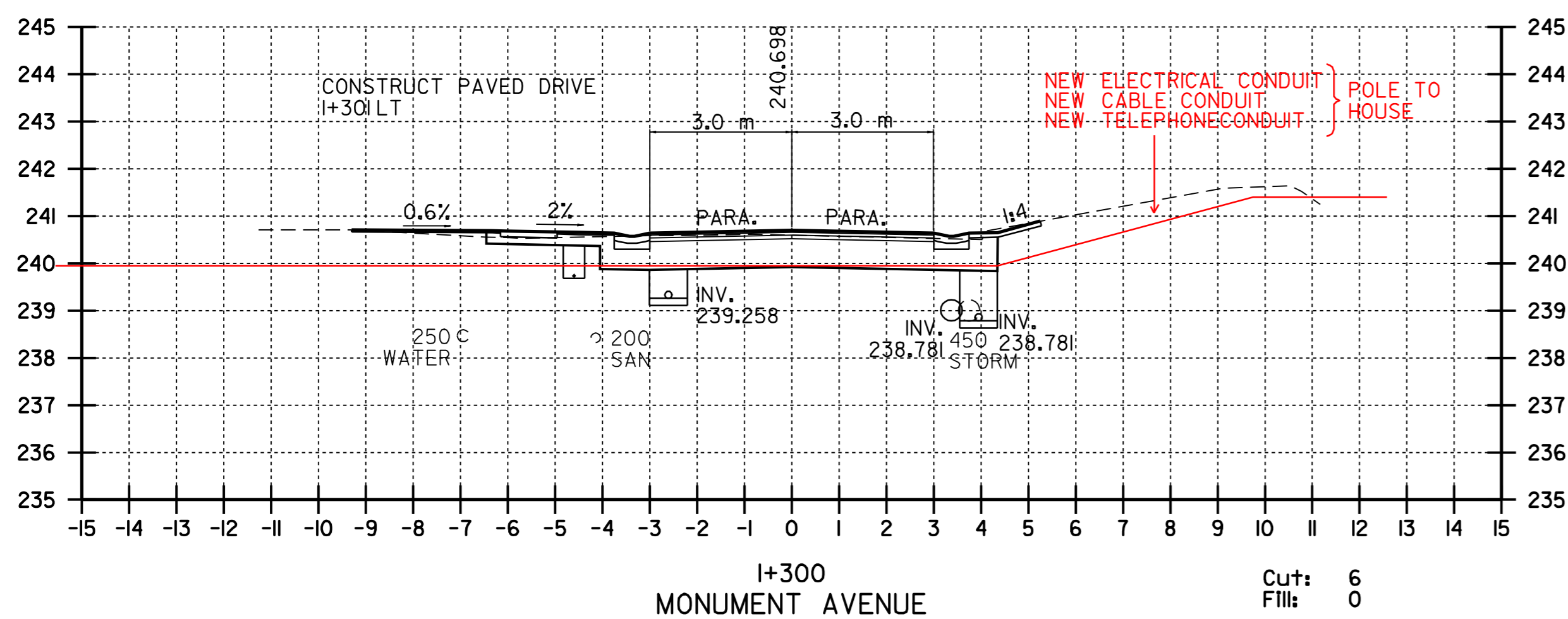
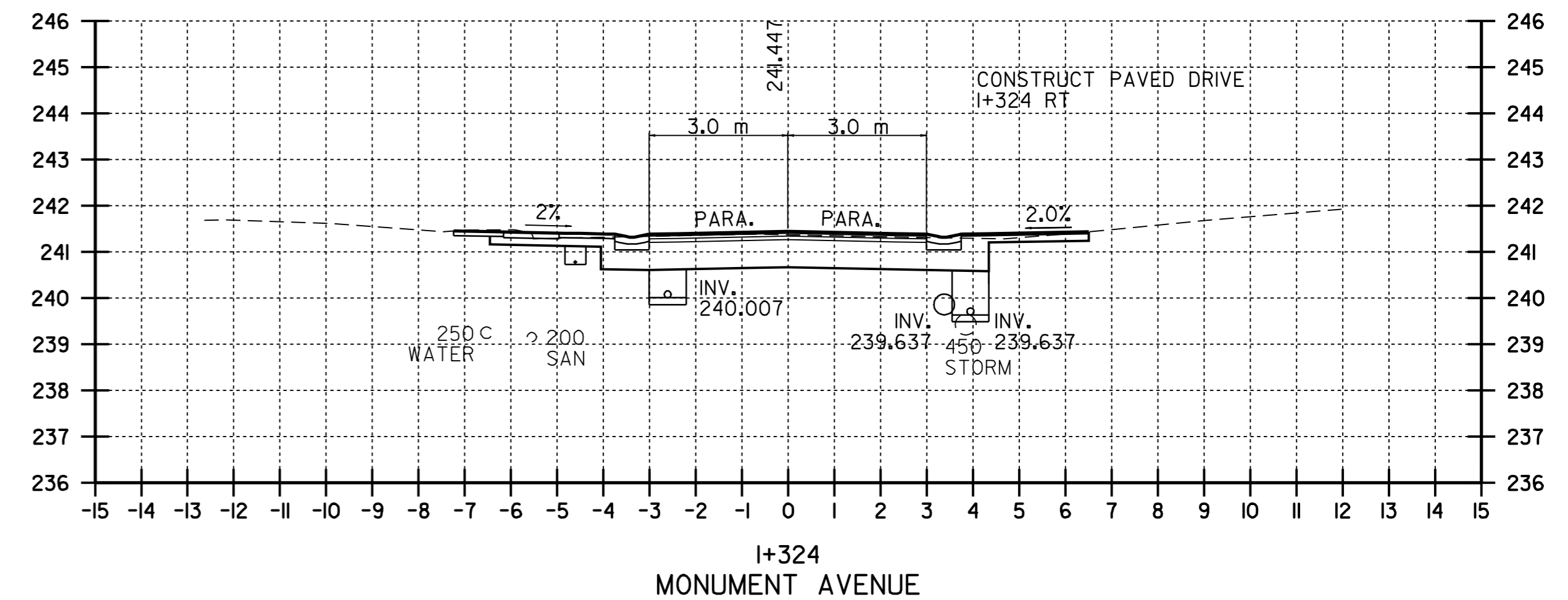
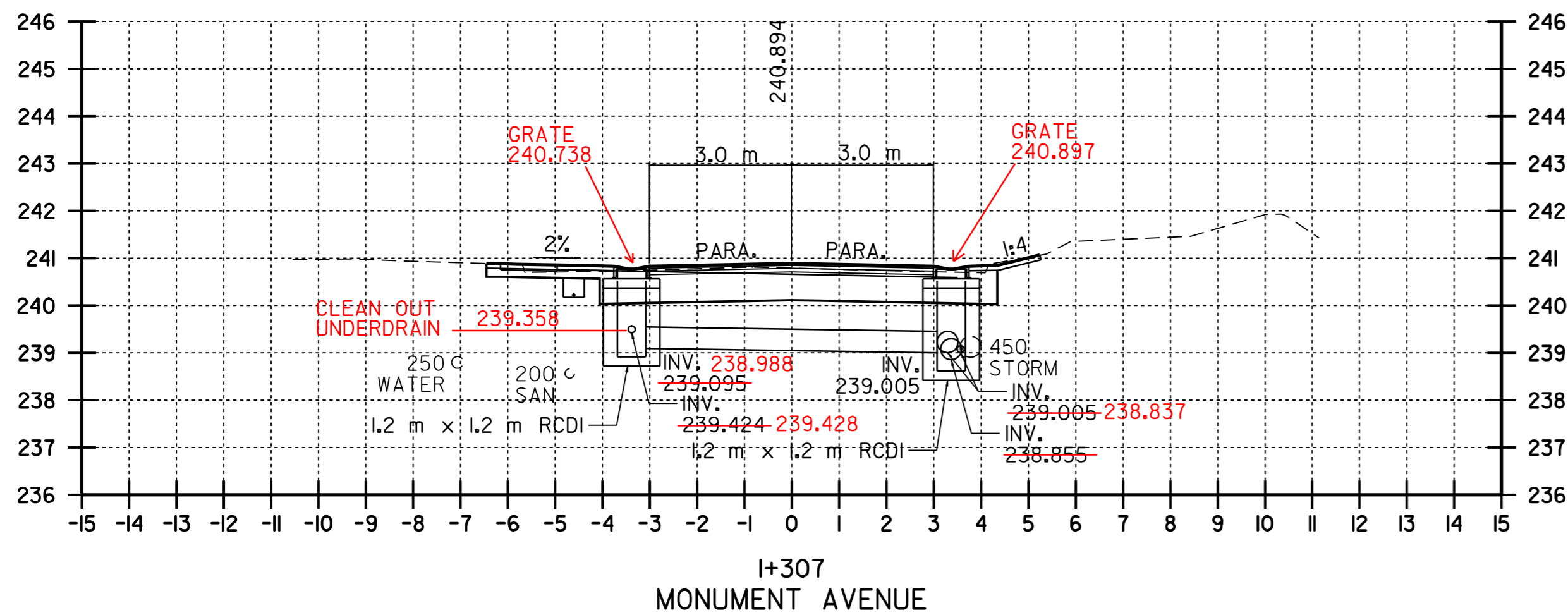


# CROSS SECTION SHEET # 5

<b>VERMONT AGENCY OF TRANSPORTATION</b>		
<b>CHA</b> <b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small> <small>11 WARRIORS CIRCLE ALBANY, NEW YORK, 12208</small>	PROJECT NAME: <u>OLD BENNINGTON</u> PROJECT NUMBER: <u>STP 1400(5)</u>	
	FILE NAME: <u>/pave/97d228/p97d228.dgn</u>	PLOT DATE: <u>05-MAY-2008 14:</u>
	PROJECT LEADER: <u>I.E.K.</u>	DRAWN BY: <u>C.A.K.</u>
	DESIGNED BY: <u>J.S.P.</u>	CHECKED BY: <u>D.E.G.</u>
SHEET <u>31</u> OF <u>48</u>		

DATUM  
 VERTICAL N/A  
 HORIZONTAL NAD 83 (1996)

NOTE:  
 EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.



NOTE:

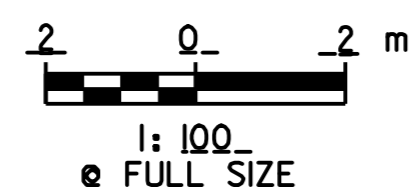
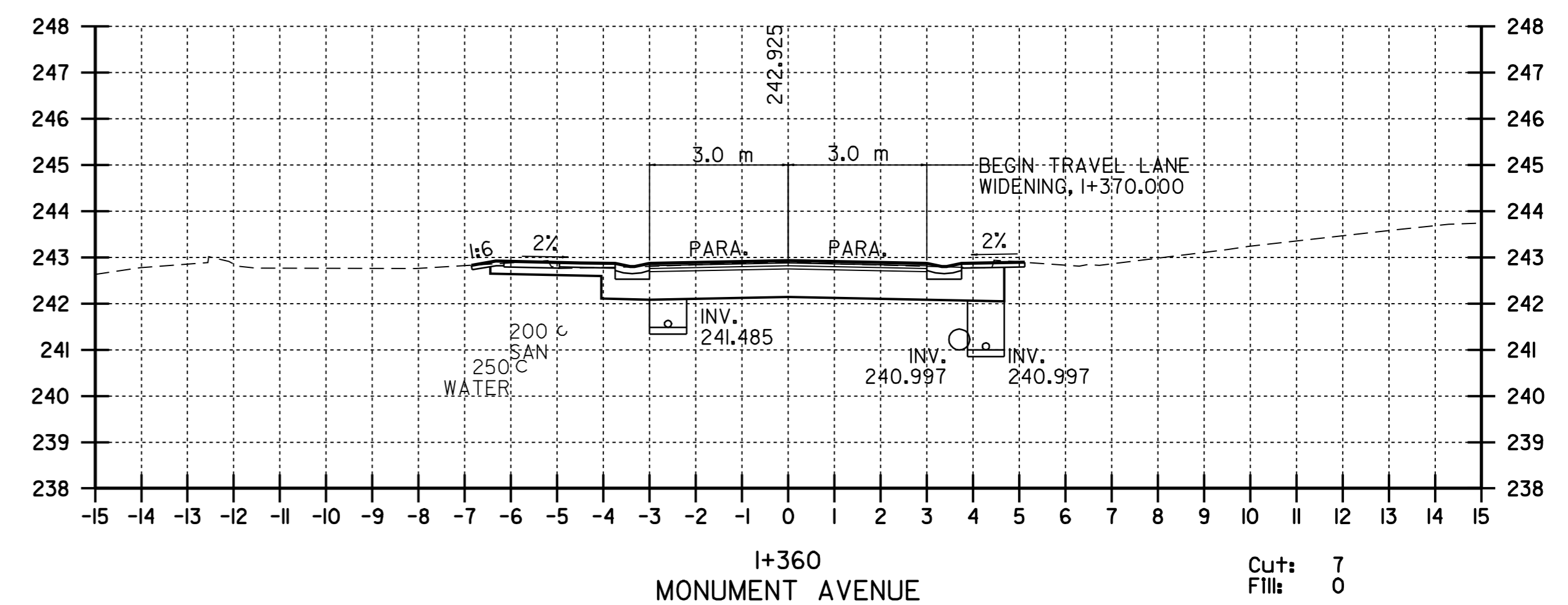
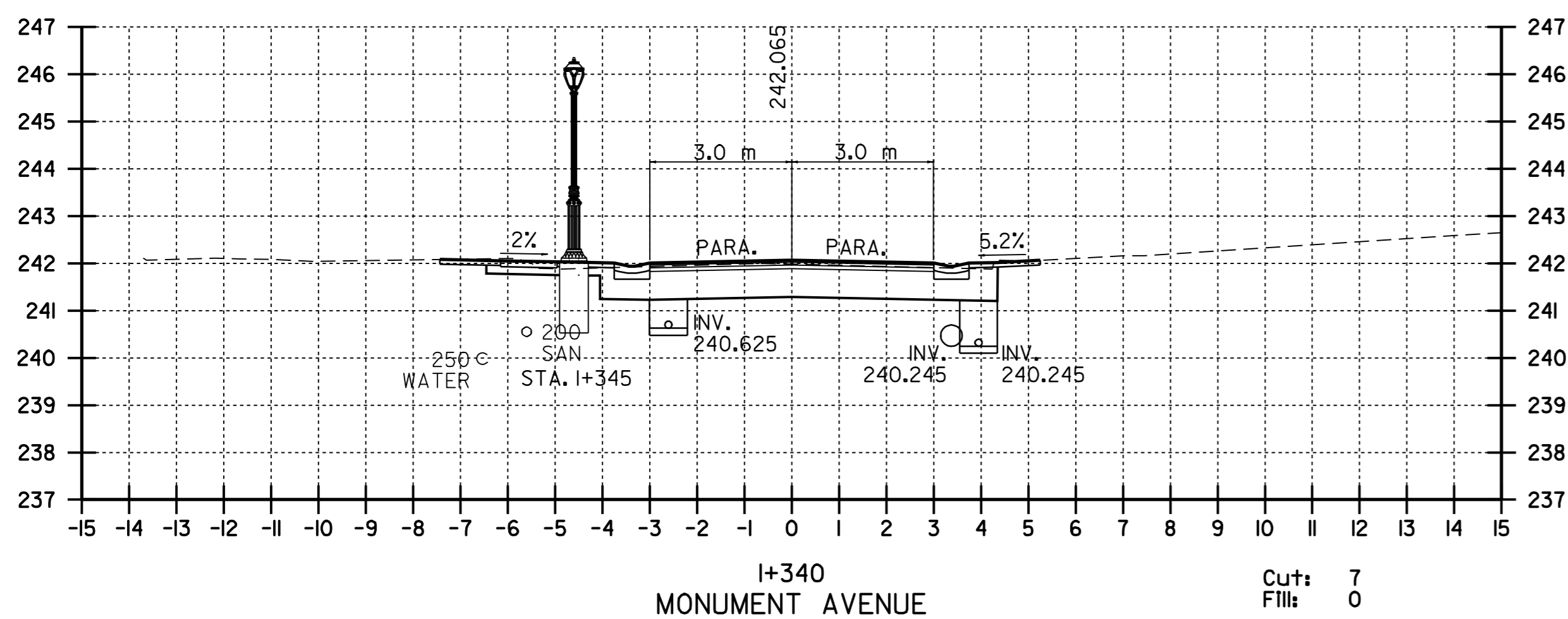
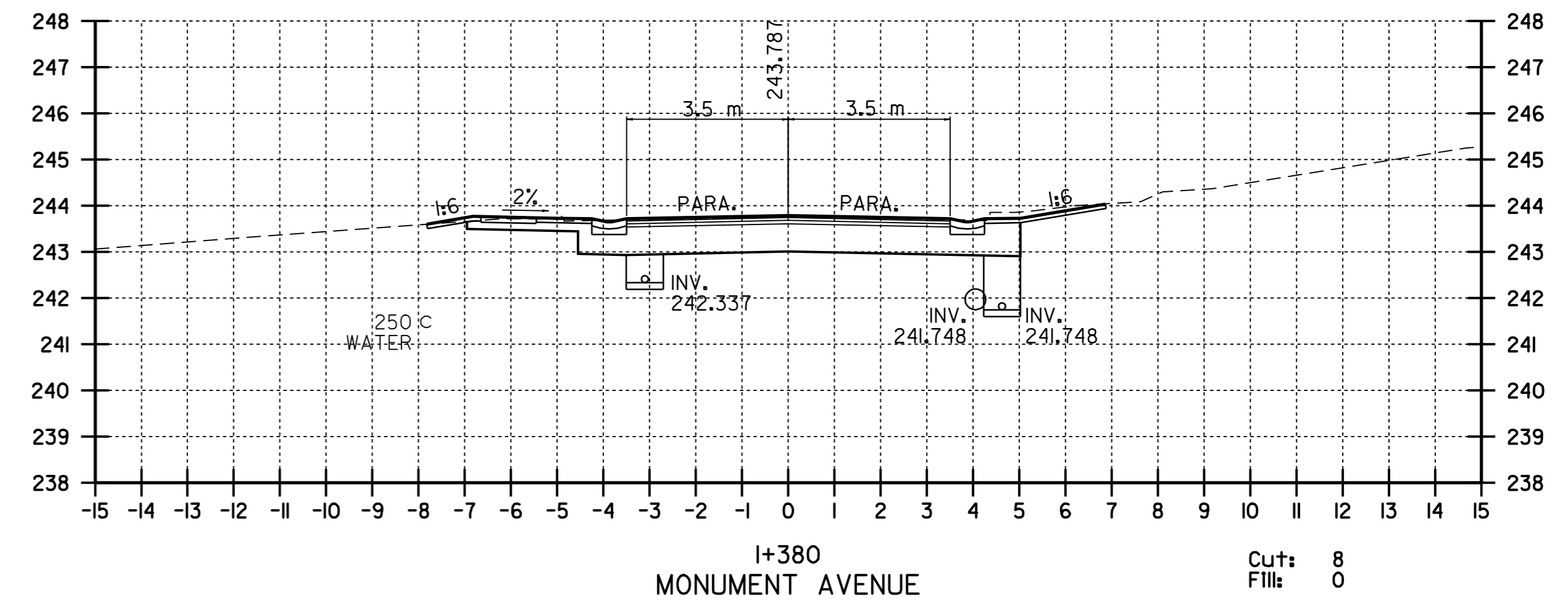
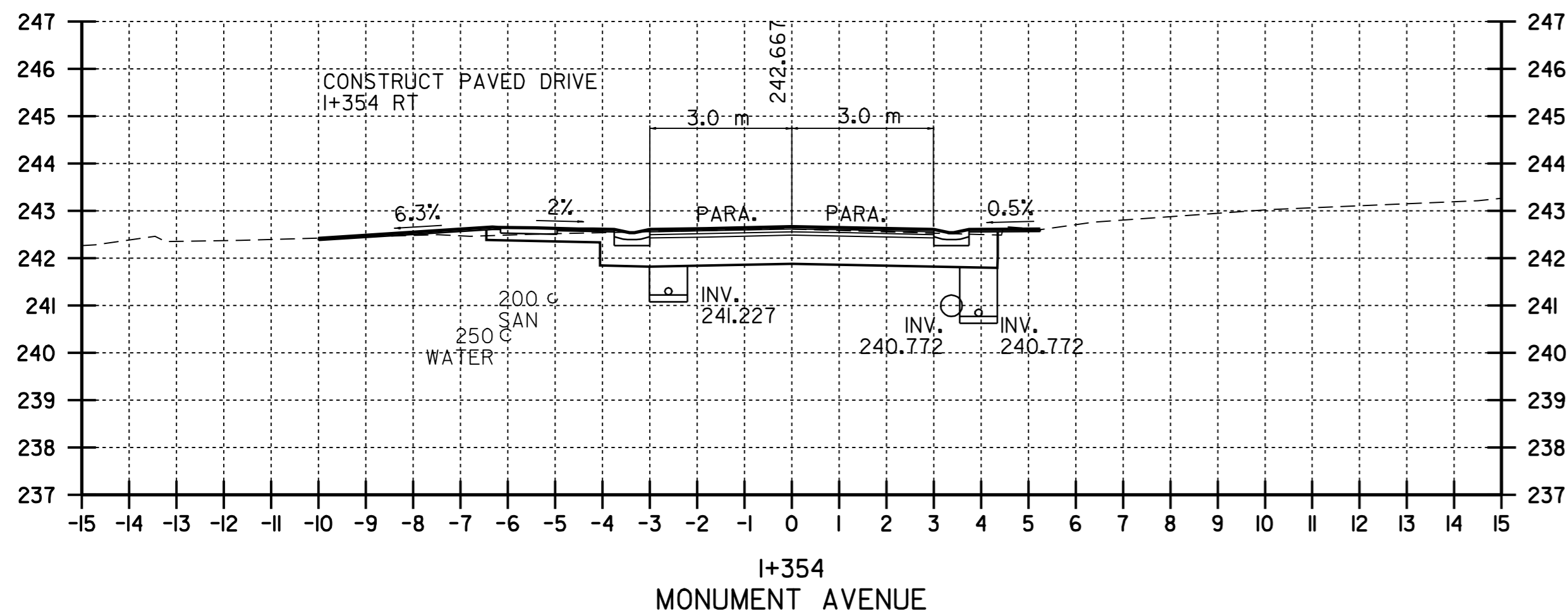
EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.

# CROSS SECTION SHEET # 6

VERMONT AGENCY OF TRANSPORTATION

<p><b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS 11 WINDMILL CIRCLE ALBANY, NEW YORK, 12205</p>	PROJECT NAME: <u>OLD BENNINGTON</u>	PLOT DATE: 05-MAY-2008 14:
	PROJECT NUMBER: <u>STP 1400(5)</u>	DRAWN BY: <u>C.A.K.</u>
	FILE NAME: /pave/97d228/p97d228.dgn	CHECKED BY: <u>D.E.G.</u>
	PROJECT LEADER: <u>I.P.K.</u>	SHEET <u>32</u> OF <u>48</u>

DATUM	
VERTICAL	<u>N/A</u>
HORIZONTAL	<u>NAD_83 (1996)</u>



# CROSS SECTION SHEET # 7

**VERMONT AGENCY OF TRANSPORTATION**

**CHA CLOUGH, HARBOUR & ASSOCIATES**  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
11 WARRIORS CIRCLE ALBANY, NEW YORK, 12205

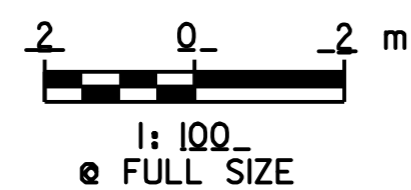
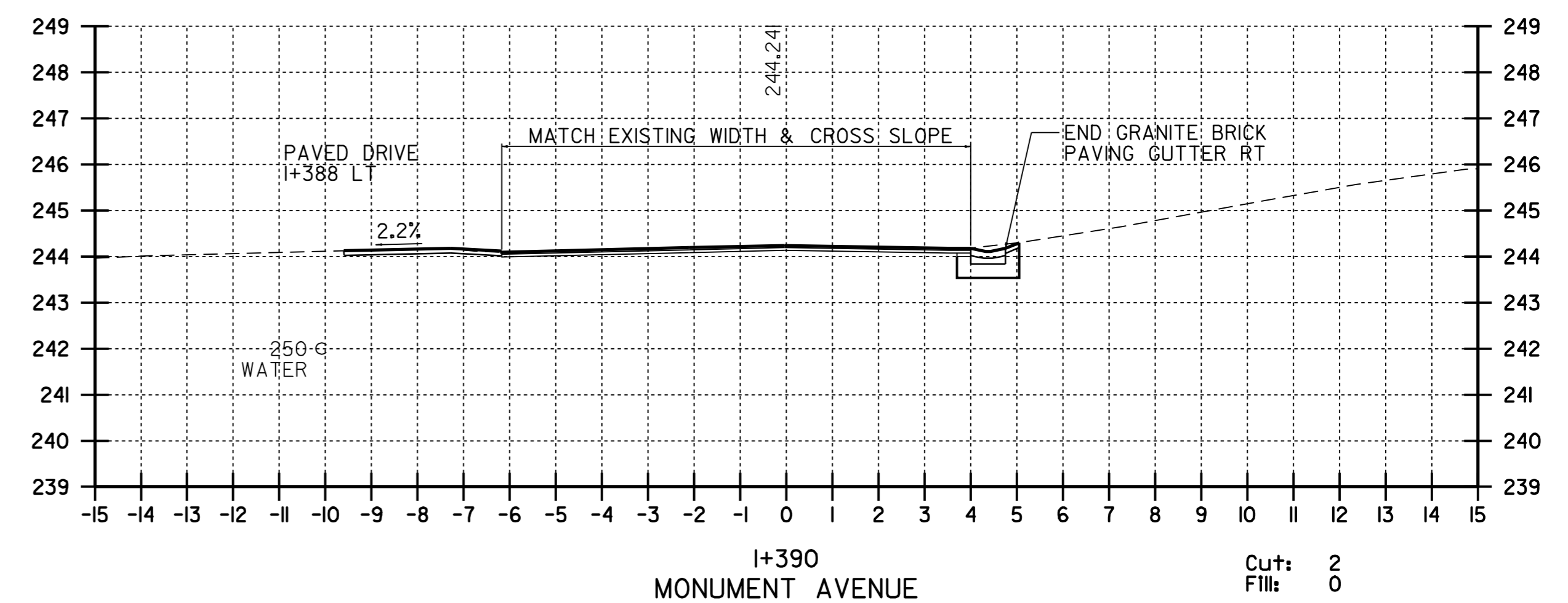
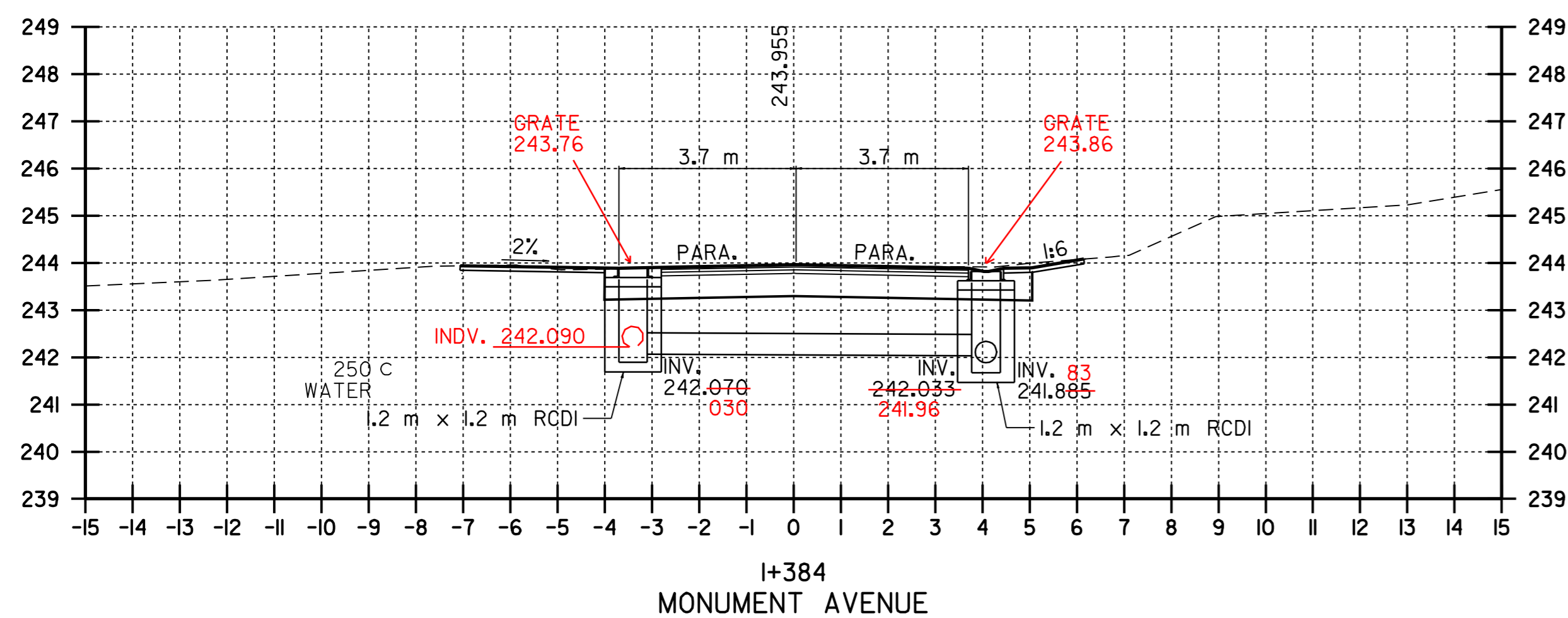
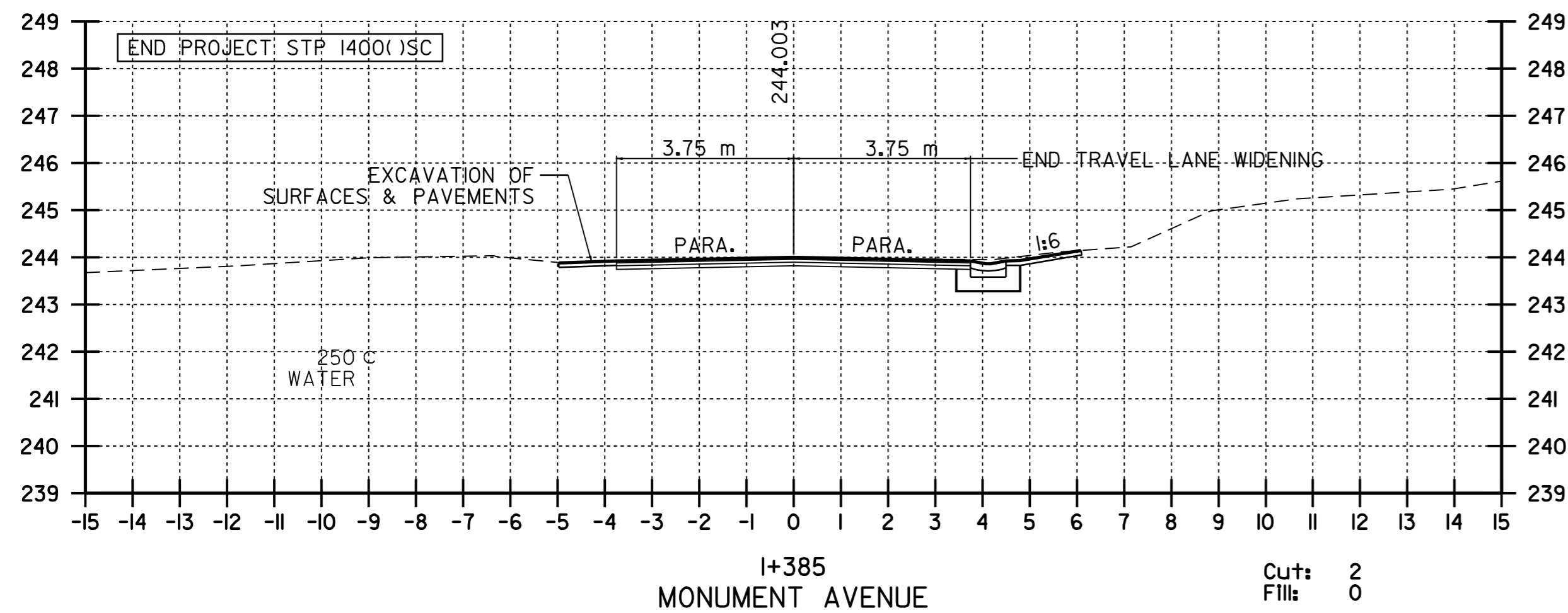
PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

FILE NAME: /pave/97d228/p97d228.dgn  
PROJECT LEADER: I.E.K.  
DESIGNED BY: J.S.P.  
**p97d228css7.i**

PLOT DATE: 05-MAY-2008 14:  
DRAWN BY: C.A.K.  
CHECKED BY: D.E.G.  
SHEET 33 OF 48

DATUM  
VERTICAL N/A  
HORIZONTAL NAD 83 (1996)

NOTE:  
EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.



NOTE:

EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER AND STORM SEWER PIPES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS OF ALL UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION OPERATIONS BY CONTACTING "DIG SAFE" AT (888) 344-7233.

DATUM  
 VERTICAL N/A  
 HORIZONTAL NAD 83 (1996)

# CROSS SECTION SHEET # 8

VERMONT AGENCY OF TRANSPORTATION

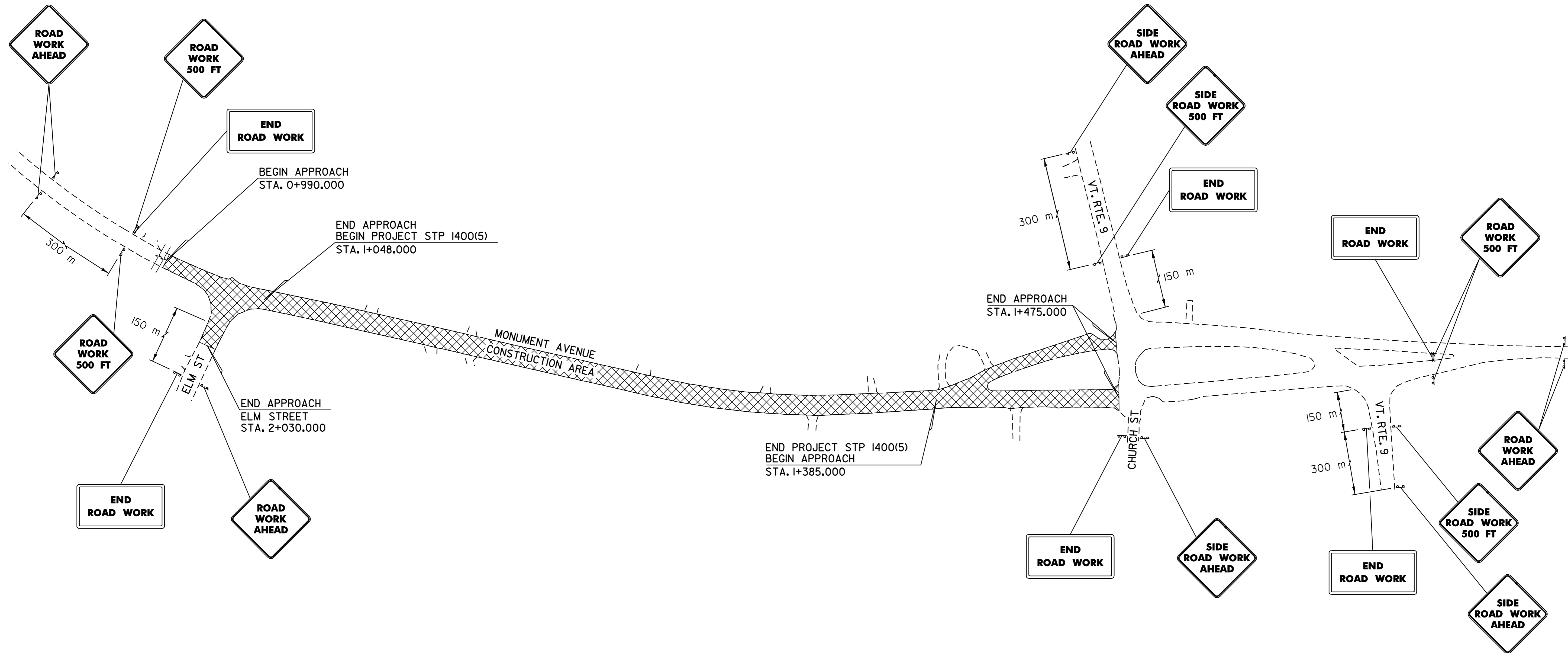


PROJECT NAME: OLD BENNINGTON  
 PROJECT NUMBER: STP 1400(5)

FILE NAME: /pave/97d228/p97d228.dgn  
 PROJECT LEADER: J.E.K.  
 DESIGNED BY: J.S.P.  
 p97d228css8.i

PLOT DATE: \$DATE\$  
 DRAWN BY: C.A.K.  
 CHECKED BY: D.E.G.  
 SHEET 34 OF 48

# CONSTRUCTION APPROACH SIGNING



NOTE:

ALL DISTANCES SHOWN ARE DESIRABLE MINIMUMS.  
FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.  
SEE VAOT STANDARD E-100 FOR ADDITIONAL DETAILS.

## CONSTRUCTION APPROACH SIGNING

### VERMONT AGENCY OF TRANSPORTATION



PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)  
FILE NAME: /pave/97d228/p97d228.dgn  
PROJECT LEADER: T.P.K.  
DESIGNED BY: J.S.P.  
PLOT DATE: 05-MAY-2008 14:  
DRAWN BY: C.A.K.  
CHECKED BY: D.E.G.  
SHEET 35 OF 48

# 1. NARRATIVE

## 1.1. PROJECT DESCRIPTION

STP 1400(5) MONUMENT AVENUE IS LOCATED IN THE VILLAGE OF OLD BENNINGTON, BENNINGTON COUNTY, VERMONT. THIS PROJECT BEGINS AT THE INTERSECTION OF MONUMENT AVENUE WITH ELM STREET AND EXTENDS NORTHERLY ALONG MONUMENT AVENUE FOR APPROXIMATELY 337 m. WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE RECONSTRUCTION OF AN URBAN ROADWAY WITHIN THE EXISTING ROADBED INCLUDING GRADING, PAVEMENT, AND SUBBASE. IN ADDITION, THE PROJECT WILL INCORPORATE THE CONSTRUCTION OF A CONCRETE SIDEWALK ALONG THE WESTERN EDGE OF PAVEMENT, MISCELLANEOUS DRAINAGE IMPROVEMENTS AND LIMITED STREET LIGHTING IMPROVEMENTS.

## 1.2. SITE INVENTORY AND ANALYSIS

### 1.2.1 OFF-SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

THE PROJECT AREA LIES WITHIN THE VICINITY OF A GRASSED/LAWN RESIDENTIAL AREA DOWN GRADIENT FROM MOUNT ANTHONY. THE MAJORITY OF THE SURFACE RUNOFF ASSOCIATED WITH THIS WATERSHED IS CONVEYED THROUGH AN UNNAMED STREAM FLOWING UNDER THE EXISTING ROADWAY THROUGH AN ELLIPTICAL CULVERT PIPE. THIS PIPE IS LOCATED NEAR THE CENTER OF THE PROJECT AREA AND THE FLOW THROUGH THIS PIPE EVENTUALLY REACHES THE WALLOOMSAC RIVER. ADDITIONAL SURFACE RUNOFF FLOWS THROUGH A CLASS TWO WETLAND LOCATED ON THE WESTERN SIDE OF THE PROJECT AREA THAT OUTLETS THROUGH A DRAINAGE SWALE THAT FLOWS THROUGH A CULVERT PIPE ON THE SOUTHERN END OF THE PROJECT AREA. THE EXISTING ROADWAY ALSO HAS SEVERAL SECTIONS OF CLOSED STORM WATER DRAINAGE SYSTEMS THAT OUTLET EITHER INTO THE UNNAMED STREAM OR THE CULVERT PIPE ON THE SOUTHERN END OF THE PROJECT.

### 1.2.2. DRAINAGE, WATERWAYS, BODIES OF WATER

THE EXISTING CLOSED DRAINAGE SYSTEMS ON THIS PROJECT ARE COMPRISED OF THREE SECTIONS. THE SOUTHERNMOST SECTION IS LOCATED IMMEDIATELY NORTH OF ELM STREET AND OUTLETS INTO A DRAINAGE SWALE THAT FLOWS FROM A CLASS TWO WETLAND. THE OTHER TWO SECTIONS RUN FROM THE NORTHERN RECONSTRUCTION LIMIT TO APPROXIMATELY STA. 1+230 AND OUTLET INTO THE UNNAMED STREAM THAT FLOWS INTO THE WALLOOMSAC RIVER. THERE ARE NO OTHER WATERWAYS OR BODIES OF WATER LOCATED WITHIN THE PROJECT ENVIRONS.

### 1.2.3. TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE EXISTING SITE TOPOGRAPHY CONSISTS OF AN URBAN ROADWAY LOCATED WITHIN A RESIDENTIAL NEIGHBORHOOD. RESIDENTIAL STRUCTURES ARE LOCATED ALONG BOTH SIDES OF MONUMENT AVENUE. NO COMMERCIAL ESTABLISHMENTS EXIST WITHIN THE PROJECT LIMITS. SANITARY SEWER AND WATER FACILITIES ARE PRESENT WITHIN THE PROJECT LIMITS, BUT THE IMPACTS ASSOCIATED WITH THIS CONTRACT ARE ANTICIPATED TO BE MINOR. AERIAL FACILITIES ARE ALSO LOCATED WITHIN THE PROJECT LIMITS ALONG BOTH SIDES OF MONUMENT AVENUE AND BEHIND THE HOUSES ON THE WESTERN SIDE OF THE PROJECT AREA.

### 1.2.4. VEGETATION

THE VEGETATION LOCATED WITHIN THE PROJECT LIMITS PRIMARILY CONSIST OF GRASSED/LAWN AREAS INCLUDING SMALL AREAS OF TREES AND SHRUBS IT IS ANTICIPATED THAT NO TREES OR SHRUBS WILL BE AFFECTED DURING THE CONSTRUCTION OF THIS PROJECT, BUT SOME LAWN AREAS WILL BE REGRADED AND RESEEDED TO ESTABLISH TURF AND TO STABILIZE THE SOIL. APPROXIMATELY 400m<sup>2</sup>(0.10 ACRES) OF PREVIOUSLY IMPERVIOUS SURFACE WILL BE RETURNED TO GRASSED AREAS AS A RESULT OF NARROWING THE ROADWAY ASSOCIATED WITH THIS PROJECT.

### 1.2.5. SOILS

THE SOILS LOCATED WITHIN THE PROJECT LIMITS HAVE BEEN PRIMARILY CLASSIFIED AS POTENTIALLY HIGHLY ERODIBLE OR HIGHLY ERODIBLE BY THE UNITED STATES DEPARTMENT OF AGRICULTURE'S NATIONAL RESOURCES CONSERVATION SERVICE (NRCS). THE FOLLOWING IS A LIST OF SOIL TYPES THAT ARE LOCATED WITHIN THE PROJECT AREA.

MAP UNIT TYPE*	DESCRIPTION	SLOPES (%)	ERODIBILITY	ERODIBILITY FACTOR (K)
64B	STOCKBRIDGE LOAM	2-8	POTENTIALLY HIGHLY ERODIBLE	0.24
64C	STOCKBRIDGE LOAM	8-15	HIGHLY ERODIBLE	0.28
66B	GEORGIA LOAM	3-8	POTENTIALLY HIGHLY ERODIBLE	0.28

\*MAP UNIT TYPE IS FROM THE NRCS SOIL SURVEY MAP FOR BENNINGTON COUNTY, VERMONT. SEE SHEETS 38 THROUGH 40 OF 46 FOR MAP UNIT BOUNDARY LINES.

### 1.2.6. SENSITIVE RESOURCE AREAS

THE ENTIRE PROJECT AREA IS LOCATED WITHIN THE NATIONAL REGISTER OF HISTORIC PLACES AND IS LISTED AS THE OLD BENNINGTON HISTORIC DISTRICT. THERE IS A CLASS TWO WETLAND LOCATED ALONG THE WESTERN SIDE OF THE PROJECT AREA ADJACENT TO THE CULVERT CROSSING NORTH OF THE MONUMENT AVENUE AND ELM STREET INTERSECTION. THERE IS ALSO A 15 m (50 FT) BUFFER ASSOCIATED WITH THIS CLASS TWO WETLAND. THE CONTRACTOR SHALL PROTECT ALL FEATURES BEYOND THE CONSTRUCTION LIMITS FROM IMPACTS THROUGHOUT THE DURATION OF THE PROJECT.

## 1.2.7. PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

LOCATED WITHIN THE PROJECT LIMITS IS AN UNNAMED STREAM THAT FLOWS UNDER THE EXISTING ROADWAY THROUGH AN ELLIPTICAL CULVERT PIPE THAT WILL REMAIN IN PLACE. THIS STREAM EVENTUALLY FLOWS INTO THE WALLOOMSAC RIVER AND IT IS ANTICIPATED THAT TEMPORARY EROSION CONTROLS WILL BE USED TO PROTECT THIS WATER COURSE FROM BECOMING TURBID DURING CONSTRUCTION.

## 1.3 TEMPORARY EROSION SEDIMENT CONTROL

### 1.3.1 DESCRIPTION OF ALL TEMPORARY STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES

TEMPORARY EROSION CONTROLS WILL BE IMPLEMENTED THROUGH BEST MANAGEMENT PRACTICES AS SHOWN ON THE PLANS. THE FOLLOWING IS A LIST OF TEMPORARY EROSION CONTROL MEASURES THAT WILL BE IMPLEMENTED DURING THE CONSTRUCTION OF THIS PROJECT:

- PROJECT DEMARCATION FENCE
- SILT FENCE
- INLET PROTECTION

### 1.3.2 DESIGN CALCULATIONS FOR ALL TEMPORARY STRUCTURAL CONTROL MEASURES

DUE TO THE TOPOGRAPHY ASSOCIATED WITH THE PROJECT ENVIRONS AND THE EXTENT OF THE PROPOSED WORK ANTICIPATED, NO TEMPORARY STRUCTURAL CONTROL MEASURE DESIGN CALCULATIONS WERE PERFORMED AT THIS TIME. GENERALLY, THE EXTENTS OF THE EMBANKMENTS ADJACENT TO THE PROPOSED CONSTRUCTION WERE MINOR AND THE PROPOSED SLOPES WERE 1:4 OR FLATTER.

## 1.4 FINAL EROSION CONTROL MEASURES

### 1.4.1. DESCRIPTION OF PERMANENT EROSION AND SEDIMENT CONTROL MEASURES

CULVERT OUTLETS SHALL BE PERMANENTLY PROTECTED WITH STONE APRONS.

## GENERAL NOTES FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

1. THE EROSION PREVENTION & SEDIMENT CONTROL PLANS (EP&SCP) ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT AS REQUIRED BY THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT TO CONTROL EROSION AND MINIMIZE THE SEDIMENTATION OF RIVERS, STREAMS AND/OR IMPOUNDMENTS SUCH AS LAKES AND RESERVOIRS. THE MEASURES CONSIST OF STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER MISCELLANEOUS POLLUTION PREVENTION CONTROLS.
2. COORDINATE THE INSTALLATION, USE, AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES WITH ROADWAY CONSTRUCTION ACTIVITIES TO ASSURE ECOLOGICAL, EFFECTIVE, AND CONTINUOUS EROSION AND SEDIMENT CONTROL. EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES AS CONSTRUCTION PROCEEDS.
3. INSPECTION OF SOIL EROSION AND POLLUTION CONTROL MEASURES, SHALL BE DONE ON A DAILY BASIS AND AFTER EVERY STORM 12 mm OR GREATER OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. REPAIRS SHALL BE MADE AS NEEDED WHEN DAMAGE TO MEASURES ARE DISCOVERED AND SEDIMENT SHALL BE REMOVED WHEN THE STORAGE VOLUME OF AN EROSION CONTROL MEASURE IS APPROACHING ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.
4. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN IN THE EP&SCP OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. DO NOT MODIFY THE TYPE, SIZE, OR LOCATION OF ANY CONTROL OR PRACTICE WITHOUT APPROVAL FROM THE COORDINATOR.
5. PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TRYING TO CONTROL ERODED SEDIMENT. THEREFORE STABILIZE ALL DISTURBED AREAS AS SOON AS IS PRACTICAL BUT NO MORE THAN 2 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. EXCEPT FOR PERIMETER CONTROL MEASURES, WHICH SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING, GRUBBING OR GRADING ACTIVITY.
6. THE CONTRACTOR SHALL GRADE AND TRIM ALL SLOPES AS THE EXCAVATION PROGRESSES AND SEED ALL SLOPES AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.
7. THE CONTRACTOR SHALL HAVE A HYDROSEEDER AND/OR A MULCHING MACHINE AVAILABLE ON THE PROJECT SITE OR AVAILABLE AT ONE WEEK'S NOTICE (MAXIMUM) UNTIL THE PERMANENT SEEDING IS COMPLETED.
8. CONTROL ONLY SEDIMENT LADEN RUNOFF GENERATED BY THE PROJECT SITE. SEPARATE AND QUICKLY ROUTE CLEAN OFFSITE RUNOFF THROUGH THE PROJECT BY USING EARTH DIVERSION BERMS, DIVERSION CHANNELS, AND CULVERTS. A TEMPORARY LINING MATERIAL MAY BE REQUIRED WHERE THE CONTRACTOR PROVIDES TEMPORARY CHANNELS TO KEEP CONTRACTOR'S WORK SITES FREE FROM WATER DURING CONSTRUCTION AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO THE WATERS OF THE UNITED STATES FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE WATERS OF THE UNITED STATES ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH WOULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM THE WATERS OF THE UNITED STATES, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN STREAM WATER QUALITY.
10. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF THE UNITED STATES, NOR SHALL WASHING FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS OF THE UNITED STATES.

## GENERAL NOTES FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL (CONT.)

11. DO NOT DRIVE CONSTRUCTION EQUIPMENT ACROSS FLOWING WATERWAYS.
12. DO NOT ALLOW CONSTRUCTION VEHICLES TO TRACK SEDIMENT OFFSITE OF THE PROJECT LIMITS.
13. DO NOT ALLOW ANY CONSTRUCTION EQUIPMENT TO OPERATE OR ACCESS ON THE DOWN SLOPE SIDE OF PERIMETER CONTROL MEASURES.
14. DO NOT ALLOW ANY CROSSING OF A FLOWING STREAM OR DISTURBANCE OF THE EXISTING STREAM BANK BY CONSTRUCTION EQUIPMENT, EXCEPT AS AUTHORIZED BY THE COORDINATOR.
15. IN GENERAL, PRESERVE EXISTING VEGETATION, TREES, AND SHRUBS WHEN POSSIBLE, AS DIRECTED BY THE COORDINATOR.

## CONSTRUCTION SEQUENCING NOTES:

### PHASE 1 - ESTABLISHING PERIMETER CONTROLS

1. PROJECT DEMARCATION FENCE SHALL BE ERECTED ALONG BOTH SIDES OF THE ENTIRE PROJECT AS SHOWN IN THE PLANS PRIOR TO ANY ACTIVITY THAT WILL ALTER THE SITE SUCH AS PLACING TRAILERS, STOCKPILES, STORAGE, DEMOLITION AND CONSTRUCTION OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.
2. INSTALL ALL NECESSARY EROSION CONTROL ITEMS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

### PHASE 2 - INSTALL PROPOSED DRAINAGE/REMOVAL OF EXISTING DRAINAGE FACILITIES

1. THE CONTRACTOR SHALL MINIMIZE THE EXPOSURE OF UNSTABILIZED SURFACES BY REMOVING/ABANDONING ALL EXISTING DRAINAGE STRUCTURE AND PIPES AND INSTALLING ALL PROPOSED DRAINAGE STRUCTURES AND PIPES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO INSTALL DELINEATION DEVICES SUCH AS CONES OR DRUMS TO PROTECT TRAFFIC FROM THE PROPOSED DRAINAGE STRUCTURES PER VAOT STANDARDS.
2. ALL PIPE INLETS/OUTLETS AND DRAINAGE STRUCTURE INLET GRATES SHALL BE PROTECTED FROM SILT AND OTHER DEBRIS BY INSTALLING FILTRESX FILTERSOX OR EQUIVALENT AS SHOWN ON SHEET 37 OF 46.


### PHASE 3 - CONSTRUCT PROPOSED ROADWAY TO BASE COURSE

1. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED ROADWAY BY UTILIZING TEMPORARY LANE CLOSURES AND MAINTAINING ONE-WAY TRAFFIC ON ONE UNOBSERVED 3.0 m LANE AT ALL TIMES THROUGH THE PROJECT SITE DURING WORKING HOURS. TRAFFIC SHALL BE RESTORED TO NORMAL OPERATIONS DURING NON-WORKING HOURS, WEEKENDS AND ALL HOLIDAYS PER SECTION 100 OF VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001.
2. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED ROADWAY IN SUCH A MANNER THAT MINIMIZES THE DURATION OF EXPOSED GROUND BY STAGING HIS ACTIVITIES SO THAT ALL DISTURBED ROADBED AREAS WILL BE STABILIZED AT THE END OF EACH WORK DAY SUCH THAT NO LONGITUDINAL DROP OFFS EXIST WITH THE PROJECT AREA. IT IS ANTICIPATED THAT THE CONTRACTOR WILL CONSTRUCT THE PROPOSED ROADWAY TO THE BASE COURSE AND THEN INSTALL THE GUTTERS, SIDEWALK AND STREET LIGHTING WHILE STABILIZING THE SIDE SLOPES OUTSIDE OF THESE AREAS. ONCE THE CONTRACTOR HAS INSTALLED ALL INCIDENTAL ITEMS AND THE SIDE SLOPES HAVE BEEN STABILIZED, THE FINAL PROPOSED PAVEMENT COURSES MAY BE PLACED.

### PHASE 4 - REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS

1. THE CONTRACTOR SHALL ONLY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS AND THE PERIMETER PROJECT DEMARCATION FENCE ONCE ALL WORK HAS BEEN COMPLETED AND THE SLOPES HAVE BEEN STABILIZED AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

## VERMONT AGENCY OF TRANSPORTATION

 <b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS            110 WINDERS CIRCLE ALBANY, NEW YORK 12208</small>	PROJECT NAME: <u>OLD BENNINGTON</u> _____ PROJECT NUMBER: <u>STP 1400(5)</u>	PLOT DATE: 05-MAY-2008 14:
	FILE NAME: /pave/97d228/p97d228.dgn PROJECT LEADER: <u>I.E.K.</u> _____ DESIGNED BY: <u>J.S.P.</u> _____ <b>p97d228escn.i</b>	DRAWN BY: <u>K.A.B.</u> _____ CHECKED BY: <u>D.E.G.</u> _____ SHEET <u>36</u> OF 48

DATUM	
VERTICAL	<u>N/A</u> _____
HORIZONTAL	<u>NAD_83 (1996)</u>

**APPLICATION NOTES:**

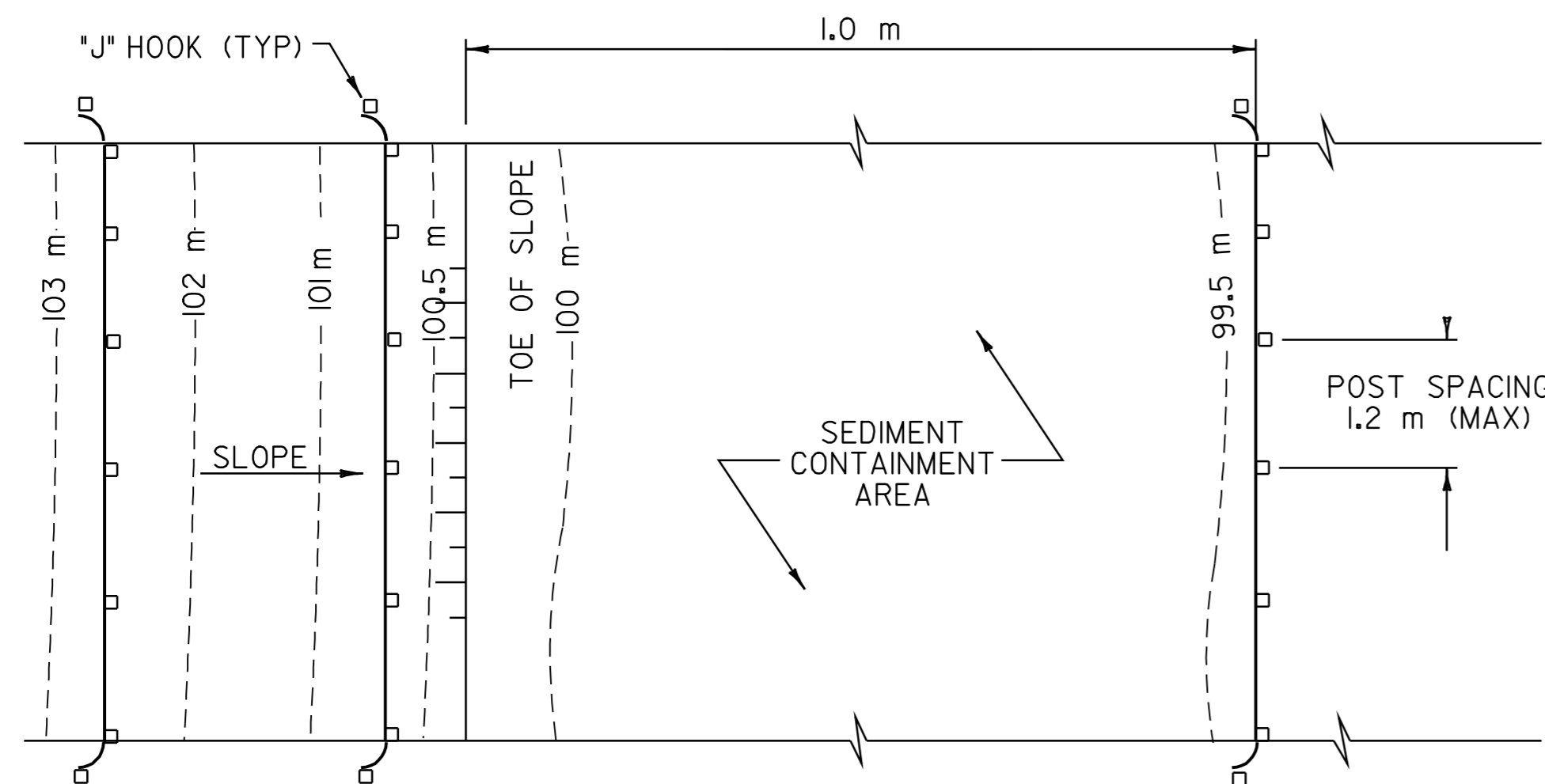
- A. THE PRIMARY PURPOSE OF SILT FENCE IS TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENT. VELOCITY IS REDUCED, WATER IS IMPOUNDED BEHIND THE MEASURE, AND SEDIMENT FALLS OUT OF SUSPENSION.
- B. SILT FENCE SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTOUR). IT MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM AS SHOWN IN THE DETAIL.
- C. SILT FENCE SHALL NOT BE USED ACROSS CONCENTRATED FLOW.

**GENERAL NOTES:**

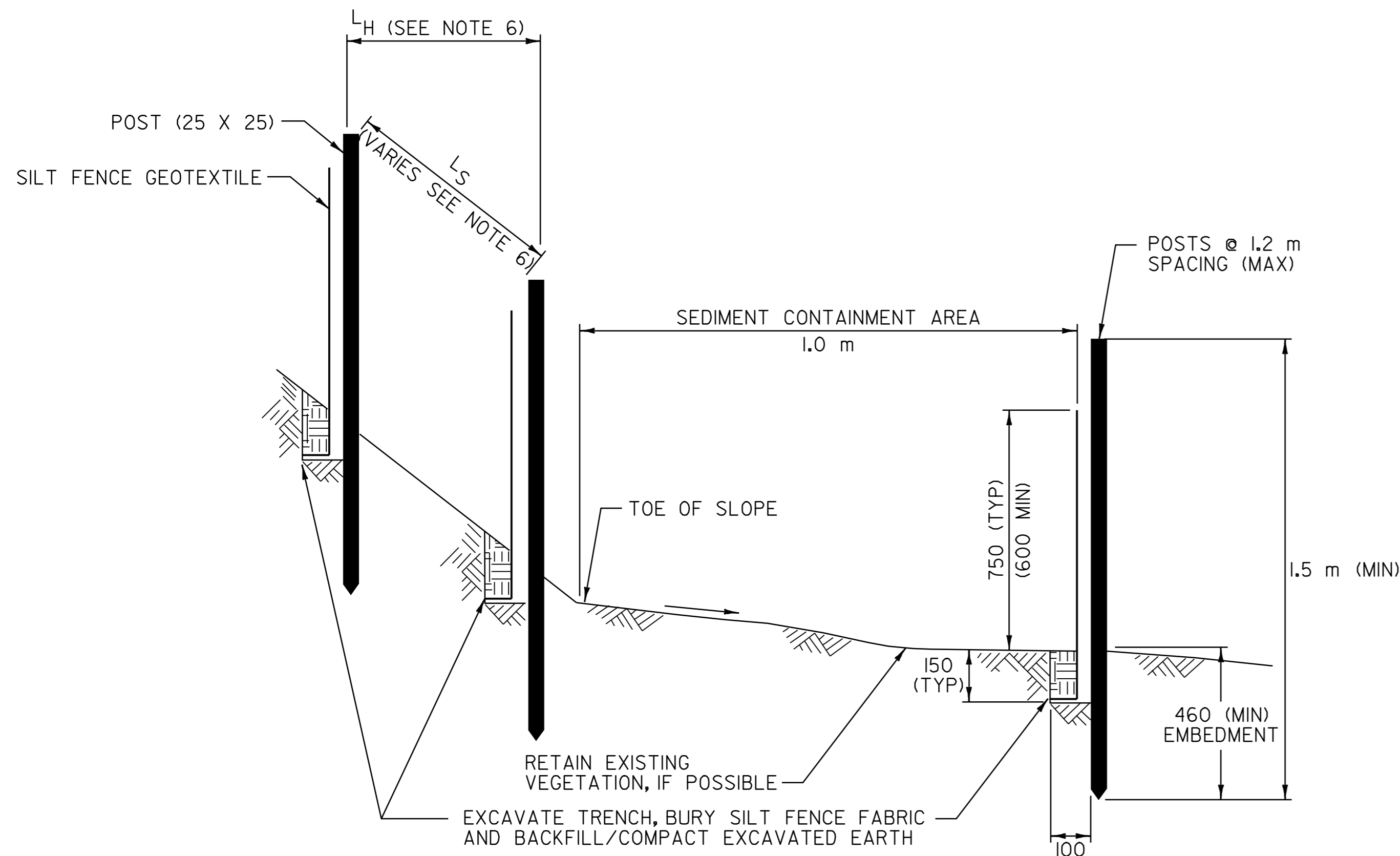
- 1. SILT FENCE SHALL GENERALLY BE PLACED A MINIMUM OF 1.0 m BEYOND TOE OF SLOPE, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
- 2. ALL ENDS SHALL BE "J" HOOKED TO TRAP SEDIMENT.
- 3. IN AREAS WITH TWO SLOPES, SILT FENCE SHALL BE USED TO ERECT A DAM AND TRAP SEDIMENT AT THE BASE OF THE STEEPER SLOPE.
- 4. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 150 mm BELOW GROUND AND KEYED IN 100 mm. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
- 5. MAXIMUM DRAINAGE AREA TRIBUTARY TO 30 m OF SILT FENCE SHALL BE 0.1Ha.
- 6. THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS FOR THESE MEASURES:

CONSTRUCTED SLOPE (H:V)	SLOPE LENGTH (L <sub>S</sub> ) m	HORIZONTAL LENGTH (L <sub>H</sub> ) m
2 : 1	15	13
3 : 1	25	24
4 : 1	40	39
5 : 1	60	60
> 5 : 1	80	80

- 7. MEASURES SHALL BE INSPECTED DAILY AND WITHIN 24 HOURS OF A STORM EVENT 12 mm OR GREATER OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.
- 8. MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED, SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
- 9. SILT FENCE SHALL BE REMOVED WHEN THE AREA HAS BEEN STABILIZED. AT TIME OF REMOVAL OF THE SILT FENCE, THE DISTURBED AREA SHALL BE REPAIRED AND STABILIZED.
- 10. PAYMENT FOR INSTALLATION AND REMOVAL OF SILT FENCE SHALL BE MADE UNDER 649.5I, GEOTEXTILE FOR SILT FENCE.
- 11. PAYMENT FOR MONITORING SILT FENCE SHALL BE MADE UNDER ITEM 652.20 MONITORING EROSION PREVENTION & SEDIMENT CONTROL PLAN.
- 12. PAYMENT FOR MAINTAINING SILT FENCE SHALL BE MADE UNDER ITEM 652.30 FIELD MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN UNLESS MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES.



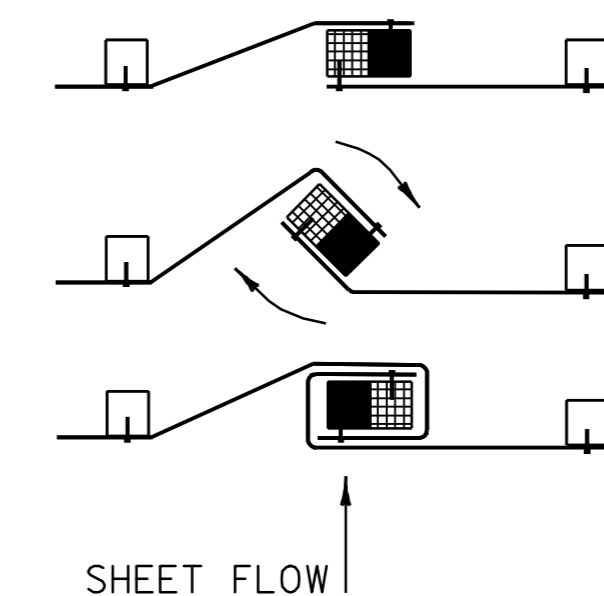
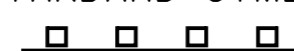
**PLAN**



**SECTION  
SILT FENCE - TEMPORARY**

N.T.S.

STANDARD SYMBOL



**SPlicing DETAIL**

N.T.S.

- 1. PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
- 2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
- 3. DRIVE BOTH POSTS 450 mm INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

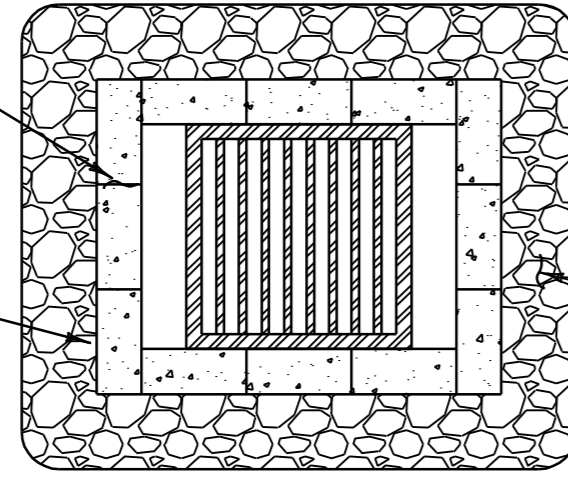
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

<p><b>TEMPORARY EROSION PREVENTION &amp; SEDIMENT CONTROL DETAILS #2</b></p>	SURVEYED BY <u>L.R.S.C.</u> DATE <u>10/04</u>
	DRAWN BY <u>C.A.K.</u> DATE <u>4/05</u>
	SQUAD LEADER <u>D.E.G.</u>
	DESIGN FILE NO. <u>/pave/97d228/p97d228.dgn</u>
	IPARM FILE <u>p97d228escd02.i</u> DATE <u>05-MAY-2008 14:05</u> PLOT NO. <u>05</u>
PROJ. NAME <u>OLD BENNINGTON</u>	
PROJ. NO. <u>STP 1400(5)</u>	
SHEET <u>38</u> OF <u>48</u> SHEETS	

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83 (1996)

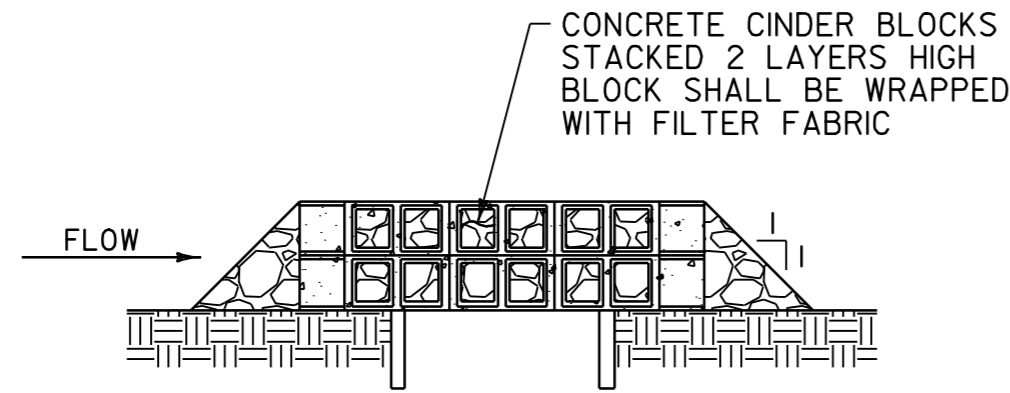
PLACE CONCRETE "CINDER" BLOCKS AROUND THE DRAINAGE STRUCTURE SO THAT OPEN AREAS OF BLOCKS ALLOW FLOW TO REACH THE GRATE.

PLACE FILTER FABRIC AROUND THE CONCRETE BLOCKS TO PREVENT CRUSHED STONE FROM ENTERING OPEN AREAS OF BLOCKS.



STONEFILL, TYPE I (MOD. - INLET PROTECTION)

PLAN



SECTION

ROCK BARRIER DROP INLET PROTECTION

DROP INLET PROTECTION

APPLICATION NOTES:

- A. THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY PONDING WATER WHICH ALLOWS SEDIMENT TO FALL OUT OF SUSPENSION.
- B. THESE EXAMPLES OF DROP INLET PROTECTION ARE NOT INTENDED FOR USE ON GRADES. ON GRADE THEY MAY CAUSE WATER TO BYPASS THE STRUCTURE, CREATING ADDITIONAL EROSION OR FLOODING.
- C. POSSIBLE MODIFICATIONS FOR USE ON GRADE INCLUDE ADDING A BERM DOWNSTREAM OF THE INLET TO CREATE PONDING. CHECK DAMS MAY ALSO BE USED UPSTREAM OF THE INLET TO SLOW VELOCITIES.

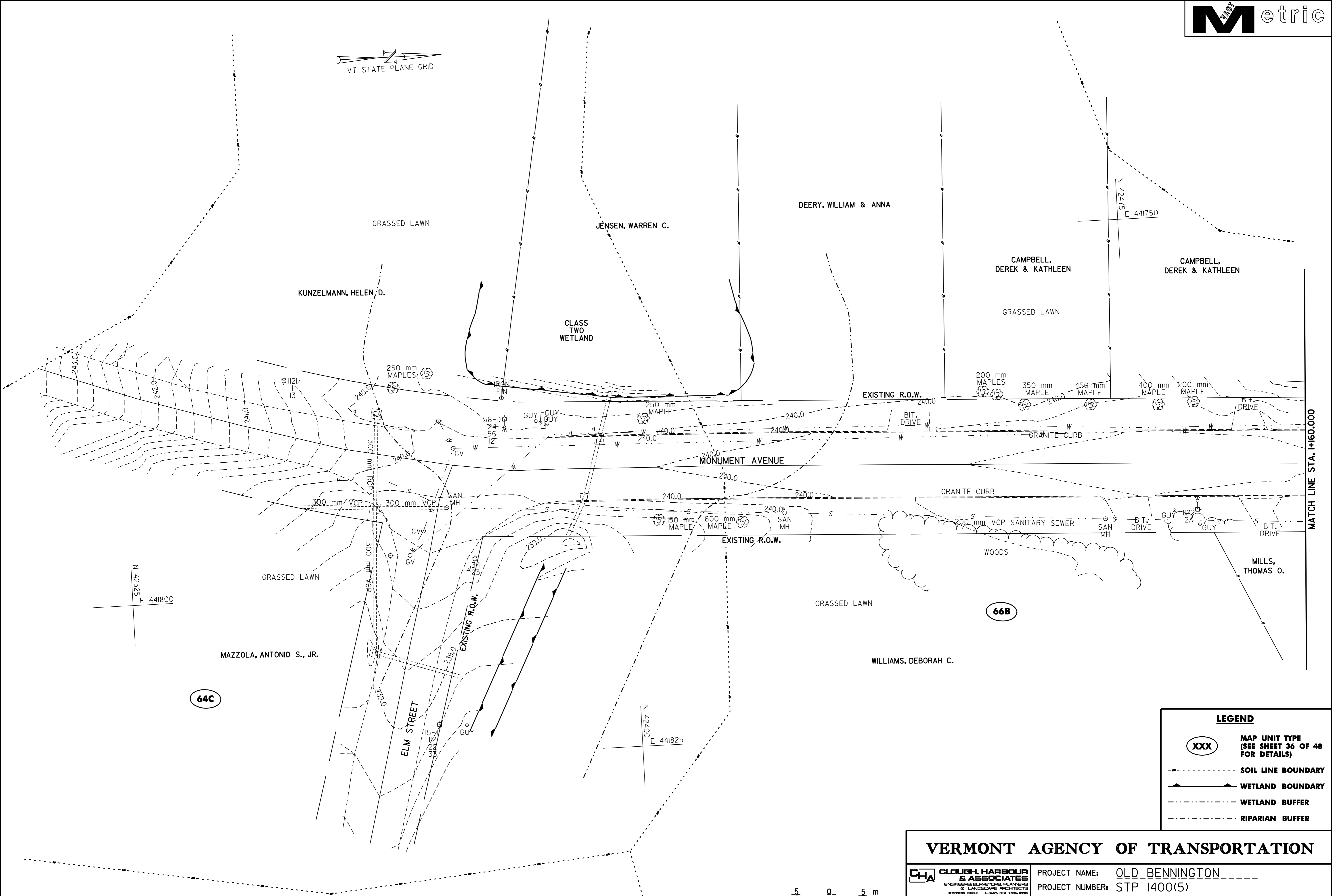
GENERAL NOTES:

1. THE TOP OF THE INLET PROTECTION SHALL BE SET AT THE MAXIMUM DESIRED WATER LEVEL, BASED ON FIELD LOCATION AND CONDITIONS.
2. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE.
3. MEASURES SHALL BE CLEANED AND REPAIRED AS NEEDED, SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
4. PAYMENT FOR MONITORING INLET PROTECTION SHALL BE MADE UNDER THE MONITORING EROSION PREVENTION & SEDIMENT CONTROL PLAN ITEM.
5. PAYMENT FOR MAINTAINING INLET PROTECTION SHALL BE MADE UNDER THE FIELD MAINTENANCE OF EROSION PREVENTION & SEDIMENT CONTROL PLAN ITEM, UNLESS IN THE OPINION OF THE RESIDENT ENGINEER, MAINTENANCE IS REQUIRED DUE TO POOR INSTALLATION PRACTICES, WHEREAS IT WILL THEN BE REPAIRED AT THE CONTRACTORS SOLE EXPENSE.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

<b>TEMPORARY EROSION PREVENTION &amp; SEDIMENT CONTROL DETAILS #3</b>	SURVEYED BY <u>L.R.S.C.</u> DATE <u>10/04</u>
	DRAWN BY <u>C.A.K.</u> DATE <u>4/05</u>
	SQUAD LEADER <u>D.E.G.</u>
	DESIGN FILE NO. <u>/pave/97d228/p97d228.dgn</u>
	IPARM FILE <u>p97d228escd3.i</u> DATE <u>05-MAY-2008 14:05</u> PLOT
PROJ. NAME <u>OLD BENNINGTON</u>	
PROJ. NO. <u>STP 1400 (5)</u>	
SHEET <u>39</u> OF <u>48</u> SHEETS <u>        </u>	

DATUM	
VERTICAL	<u>NAVD 88</u>
HORIZONTAL	<u>NAD 83 (1996)</u>



MATCH LINE STA. 1+160.000

64C

66B

**LEGEND**

- XXX MAP UNIT TYPE (SEE SHEET 36 OF 48 FOR DETAILS)
- SOIL LINE BOUNDARY
- WETLAND BOUNDARY
- WETLAND BUFFER
- RIPARIAN BUFFER

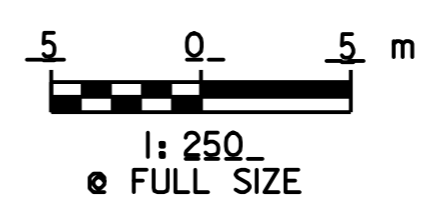
**VERMONT AGENCY OF TRANSPORTATION**

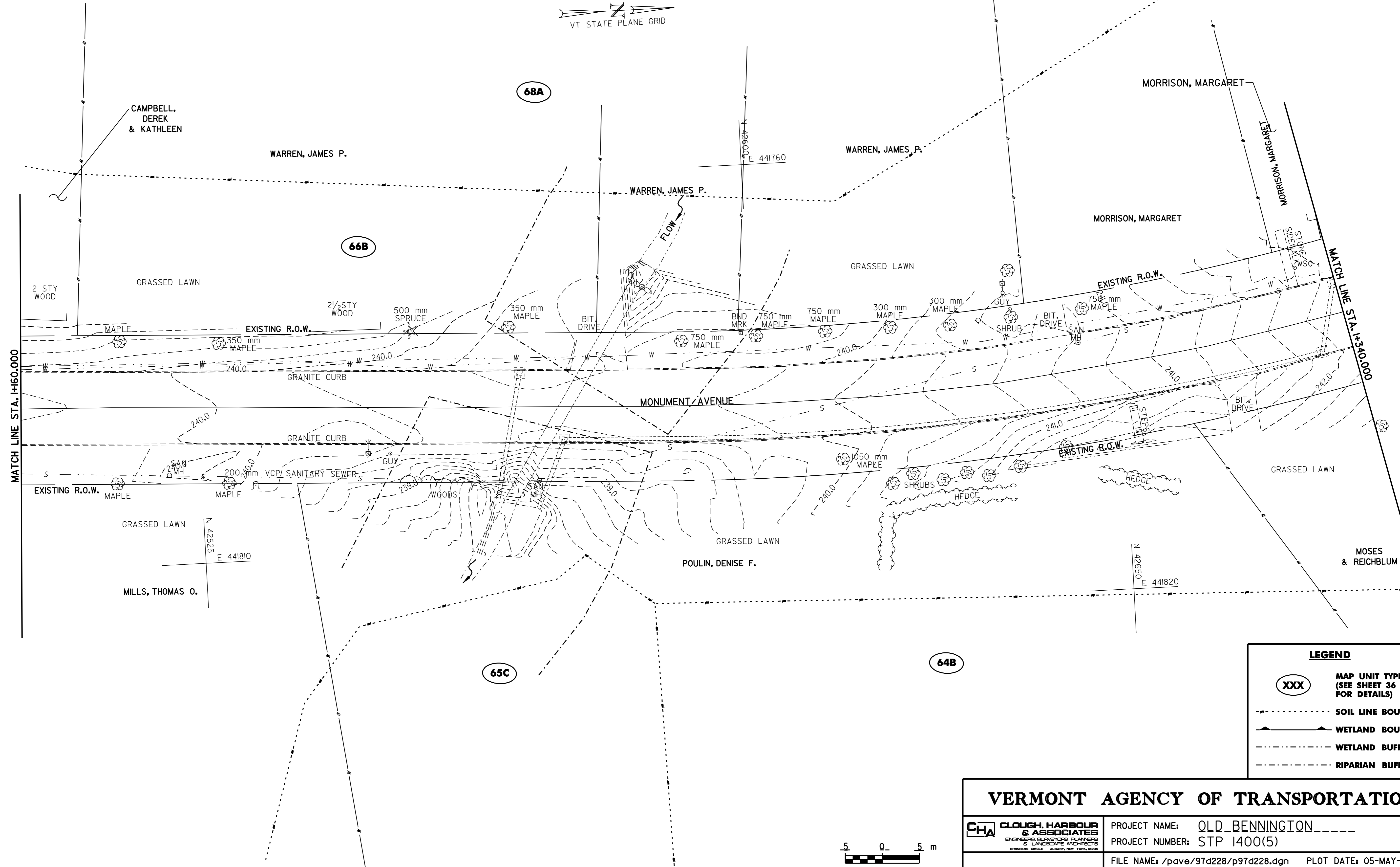
**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
80 WINDERS CIRCLE ALBANY, NEW YORK 12205

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

**EXISTING CONDITIONS**  
PLAN # 01

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
p97d228ecp01.i SHEET 40 OF 48





LEGEND	
<b>XXX</b>	MAP UNIT TYPE (SEE SHEET 36 OF 48 FOR DETAILS)
	SOIL LINE BOUNDARY
	WETLAND BOUNDARY
	WETLAND BUFFER
	RIPARIAN BUFFER

**VERMONT AGENCY OF TRANSPORTATION**

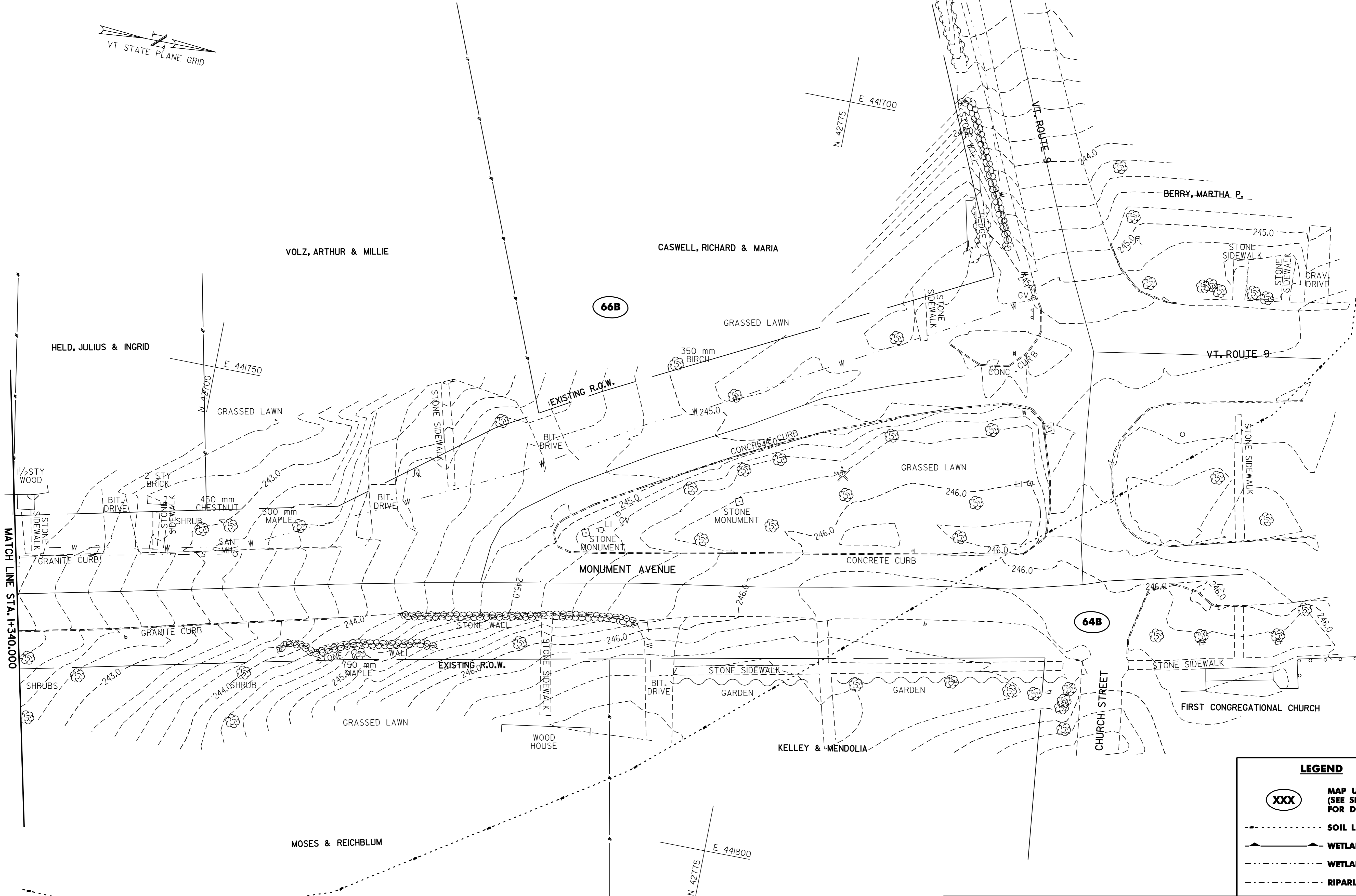
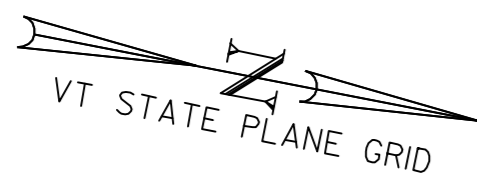
**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
BWINNERS CIRCLE ALBANY, NEW YORK, 12207

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

**EXISTING CONDITIONS  
PLAN # 02**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
**p97d228ecp02.i** SHEET 41 OF 48



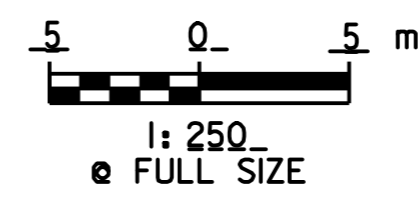


MATCH LINE STA. 1+340.000

66B

64B

LEGEND	
	MAP UNIT TYPE (SEE SHEET 36 OF 48 FOR DETAILS)
	SOIL LINE BOUNDARY
	WETLAND BOUNDARY
	WETLAND BUFFER
	RIPIARIAN BUFFER



**VERMONT AGENCY OF TRANSPORTATION**

<b>CLOUGH, HARBOUR &amp; ASSOCIATES</b> <small>ENGINEERS, SURVEYORS, PLANNERS &amp; LANDSCAPE ARCHITECTS</small> <small>MEMBER: CIVIL - ALWAYS NEW YORK STATE</small>	PROJECT NAME: <u>OLD BENNINGTON</u>
	PROJECT NUMBER: <u>STP 1400(5)</u>

EXISTING CONDITIONS PLAN # 03	FILE NAME: /pave/97d228/p97d228.dgn	PLOT DATE: 05-MAY-2008 14:
	PROJECT LEADER: <u>I.E.K.</u>	DRAWN BY: <u>K.A.B.</u>
	DESIGNED BY: <u>J.S.P.</u>	CHECKED BY: <u>D.E.G.</u>
	<u>p97d228ecp03.i</u>	SHEET <u>42</u> OF 48

EROSION CONTROL LEGEND	
△-△-△-△	PROJECT DEMARCATION FENCE
■-■-■-■	SILT FENCE
∧	CHECK DAM-CULVERT INLET/OUTLET PROTECTION
□	DROP INLET PROTECTION

\* SEE SHEETS 38 OF 48 FOR EROSION CONTROL DETAILS



BEGIN APPROACH  
BEGIN BITUMINOUS  
CONCRETE GUTTER LT  
STA. 0+990.000

BEGIN MONUMENT AVENUE  
STA. 0+985.000

KUNZELMANN, HELEN D.

MONUMENT AVENUE P.O.C. STA. 1+031.837=  
BEGIN ELM STREET STA. 2+000.000

CLASS TWO  
WETLAND

DEERY, WILLIAM & ANNA

CAMPBELL,  
DEREK & KATHLEEN

CAMPBELL,  
DEREK & KATHLEEN

GRASSED LAWN

JENSEN, WARREN C.

GRASSED LAWN

250 mm  
MAPLES

200 mm  
MAPLES

350 mm  
MAPLE

450 mm  
MAPLE

400 mm  
MAPLE

200 mm  
MAPLE

EXISTING R.O.W.

BIT. DRIVE

GRANITE CURB

BIT. DRIVE

MONUMENT AVENUE

I+100

GRANITE CURB

EXISTING R.O.W.

WOODS

MILLS,  
THOMAS O.

GRASSED LAWN

GRASSED LAWN

66B

MAZZOLA, ANTONIO S., JR.

WILLIAMS, DEBORAH C.

END APPROACH  
BEGIN PROJECT STP 1400(5)  
STA. 1+048.000

64C

ELM STREET

END APPROACH  
STA. 2+030.000

END ELM STREET  
P.O.T. STA. 2+055.000

MATCH LINE STA. 1+160.000, SHEET 9

LEGEND	
XXX	MAP UNIT TYPE (SEE SHEET 36 OF 48 FOR DETAILS)
---	SOIL LINE BOUNDARY
∧	WETLAND BOUNDARY
---	WETLAND BUFFER
---	RIPARIAN BUFFER

**VERMONT AGENCY OF TRANSPORTATION**

**CHA** CLOUGH HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS  
& LANDSCAPE ARCHITECTS  
110 BROADWAY, ALBANY, NEW YORK 12204

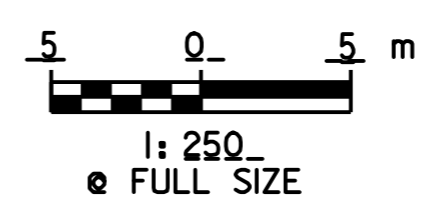
PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

**EROSION & SEDIMENT  
CONTROL PLAN # 01**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
p97d228escp01.i SHEET 43 OF 48

DATUM	
VERTICAL	N/A
HORIZONTAL	NAD_83_(1996)

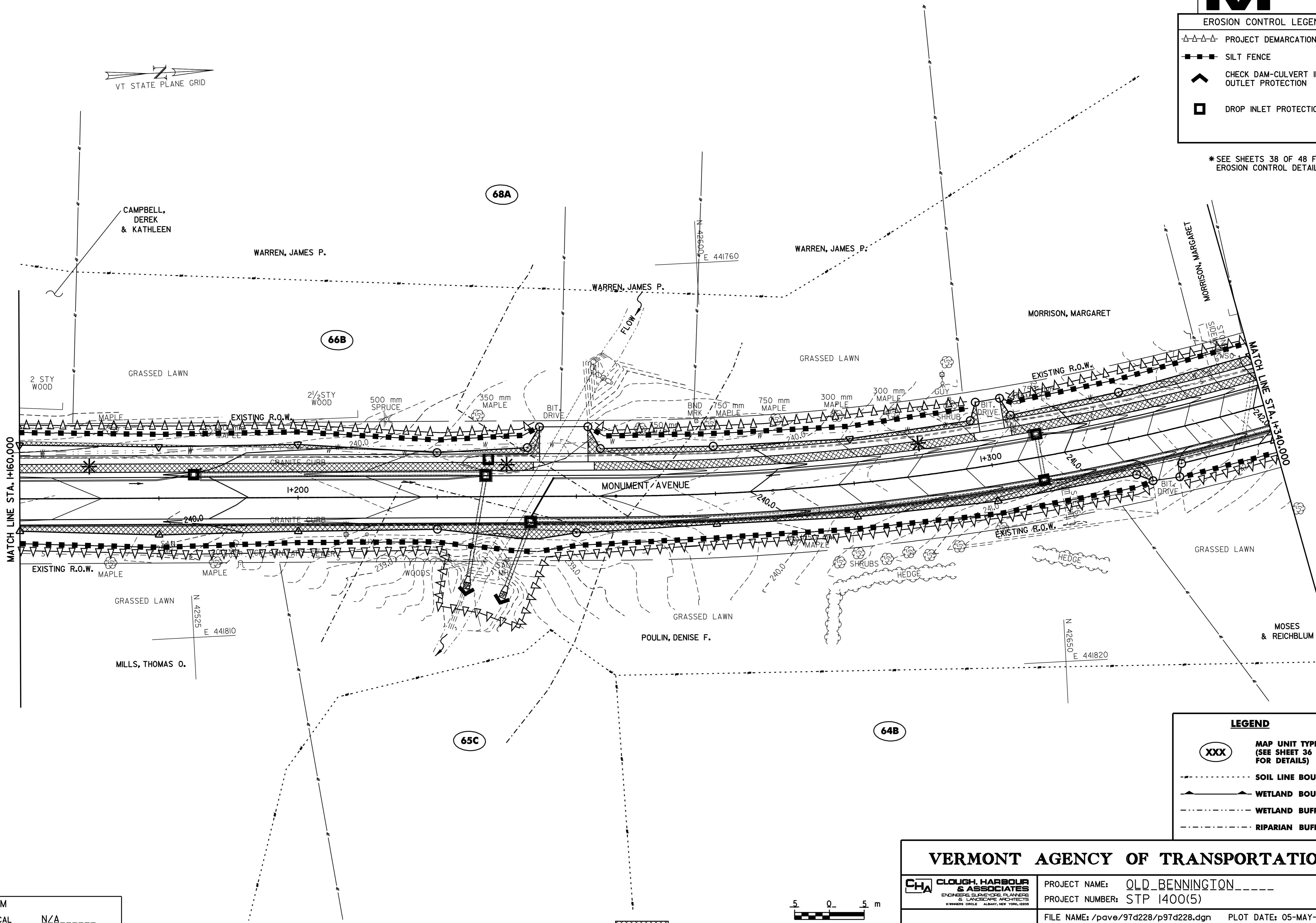
AREA TO BE SEEDED  
AND MULCHED



**EROSION CONTROL LEGEND**

- △△△△ PROJECT DEMARCATION FENCE
- ■ ■ ■ SILT FENCE
- ∧ CHECK DAM-CULVERT INLET/OUTLET PROTECTION
- DROP INLET PROTECTION

\*SEE SHEETS 38 OF 48 FOR EROSION CONTROL DETAILS



MATCH LINE STA. 1+60.000

MATCH LINE STA. 1+300.000

**LEGEND**

- XXX MAP UNIT TYPE (SEE SHEET 36 FOR DETAILS)
- SOIL LINE BOUNDARY
- ∧ WETLAND BOUNDARY
- WETLAND BUFFER
- RIPARIAN BUFFER

**VERMONT AGENCY OF TRANSPORTATION**

**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
BURNING CIRCLE ALBANY, NEW YORK, 12205

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

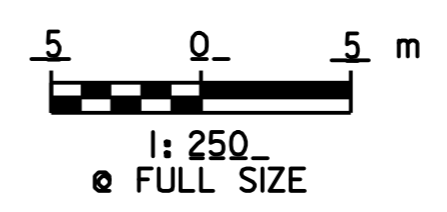
**EROSION & SEDIMENT CONTROL PLAN # 02**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
**p97d228escp02.i** SHEET 44 OF 48

DATUM

VERTICAL	<u>N/A</u>
HORIZONTAL	<u>NAD_83_(1996)</u>

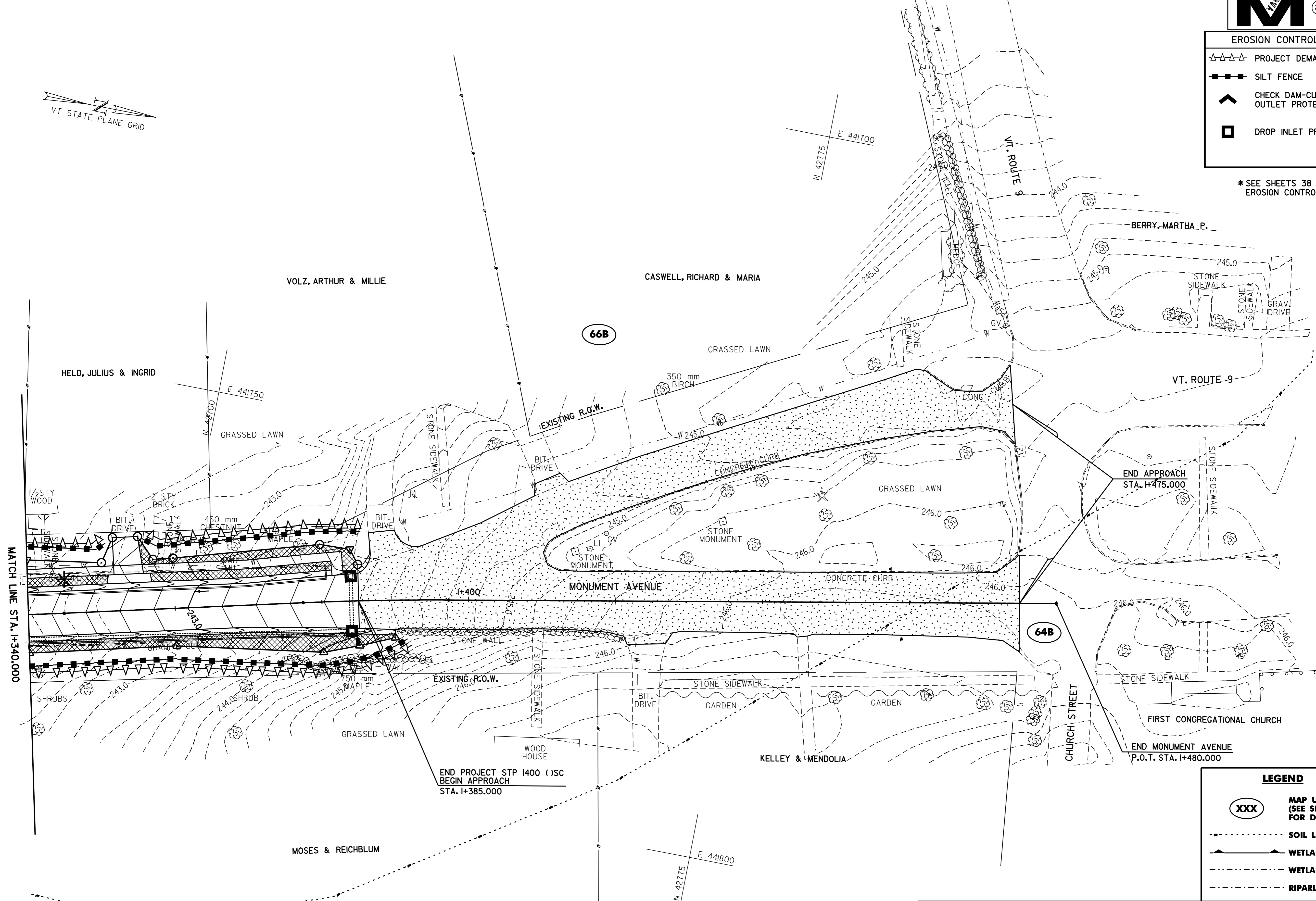
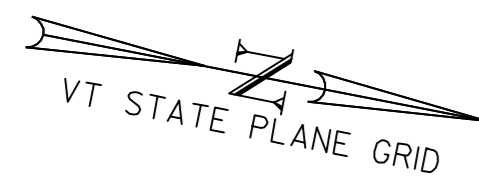
**AREA TO BE SEEDED AND MULCHED**



**EROSION CONTROL LEGEND**

- △△△△△ PROJECT DEMARCATION FENCE
- ■ ■ ■ ■ SILT FENCE
- ^ CHECK DAM-CULVERT INLET/OUTLET PROTECTION
- DROP INLET PROTECTION

\*SEE SHEETS 38 OF 48 FOR EROSION CONTROL DETAILS



MATCH LINE STA. I+340.000

END PROJECT STP 1400 ( ) SC  
BEGIN APPROACH  
STA. I+385.000

END APPROACH  
STA. I+475.000

END MONUMENT AVENUE  
P.O.T. STA. I+480.000

**LEGEND**

- XXX MAP UNIT TYPE (SEE SHEET 36 FOR DETAILS)
- SOIL LINE BOUNDARY
- ^ WETLAND BOUNDARY
- WETLAND BUFFER
- RIPARIAN BUFFER

**VERMONT AGENCY OF TRANSPORTATION**

**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
© WINDING CIRCLE ALBANY, NEW YORK, 12204

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

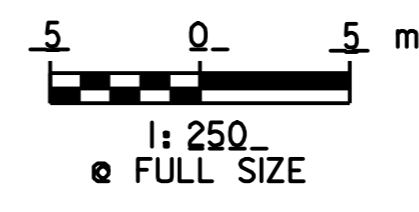
**EROSION & SEDIMENT CONTROL PLAN # 03**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
p97d228escp03.i SHEET 45 OF 48

**DATUM**

VERTICAL	<u>N/A</u>
HORIZONTAL	<u>NAD_83_(1996)</u>

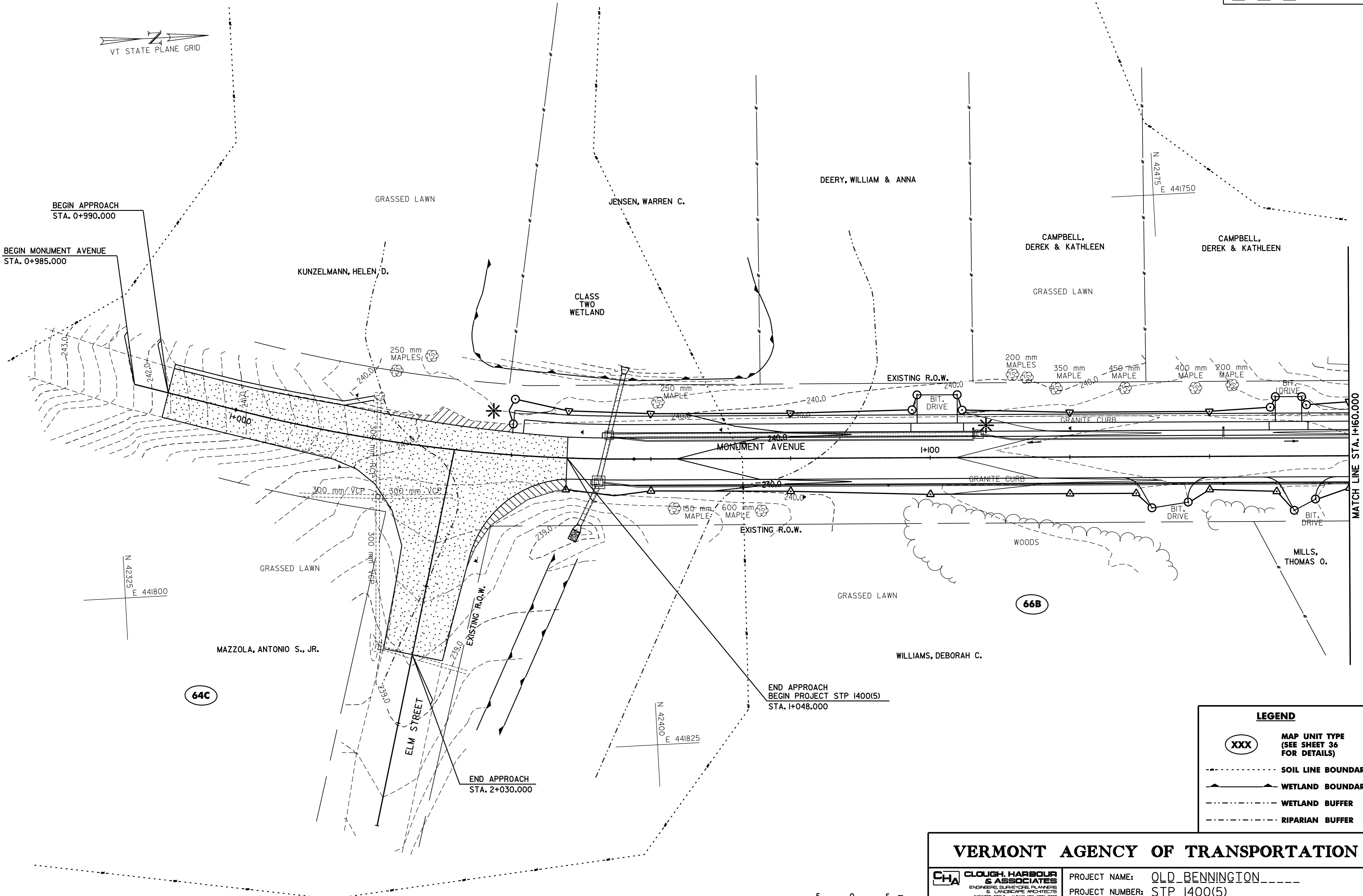
**AREA TO BE SEEDED AND MULCHED**





BEGIN APPROACH  
STA. 0+990.000

BEGIN MONUMENT AVENUE  
STA. 0+985.000



64C

66B

MATCH LINE STA. 1+160.000

END APPROACH  
BEGIN PROJECT STP 1400(5)  
STA. 1+048.000

END APPROACH  
STA. 2+030.000

LEGEND	
	MAP UNIT TYPE (SEE SHEET 36 FOR DETAILS)
	SOIL LINE BOUNDARY
	WETLAND BOUNDARY
	WETLAND BUFFER
	RIPARIAN BUFFER

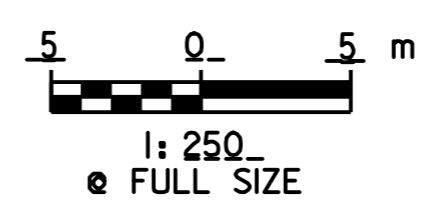
**VERMONT AGENCY OF TRANSPORTATION**

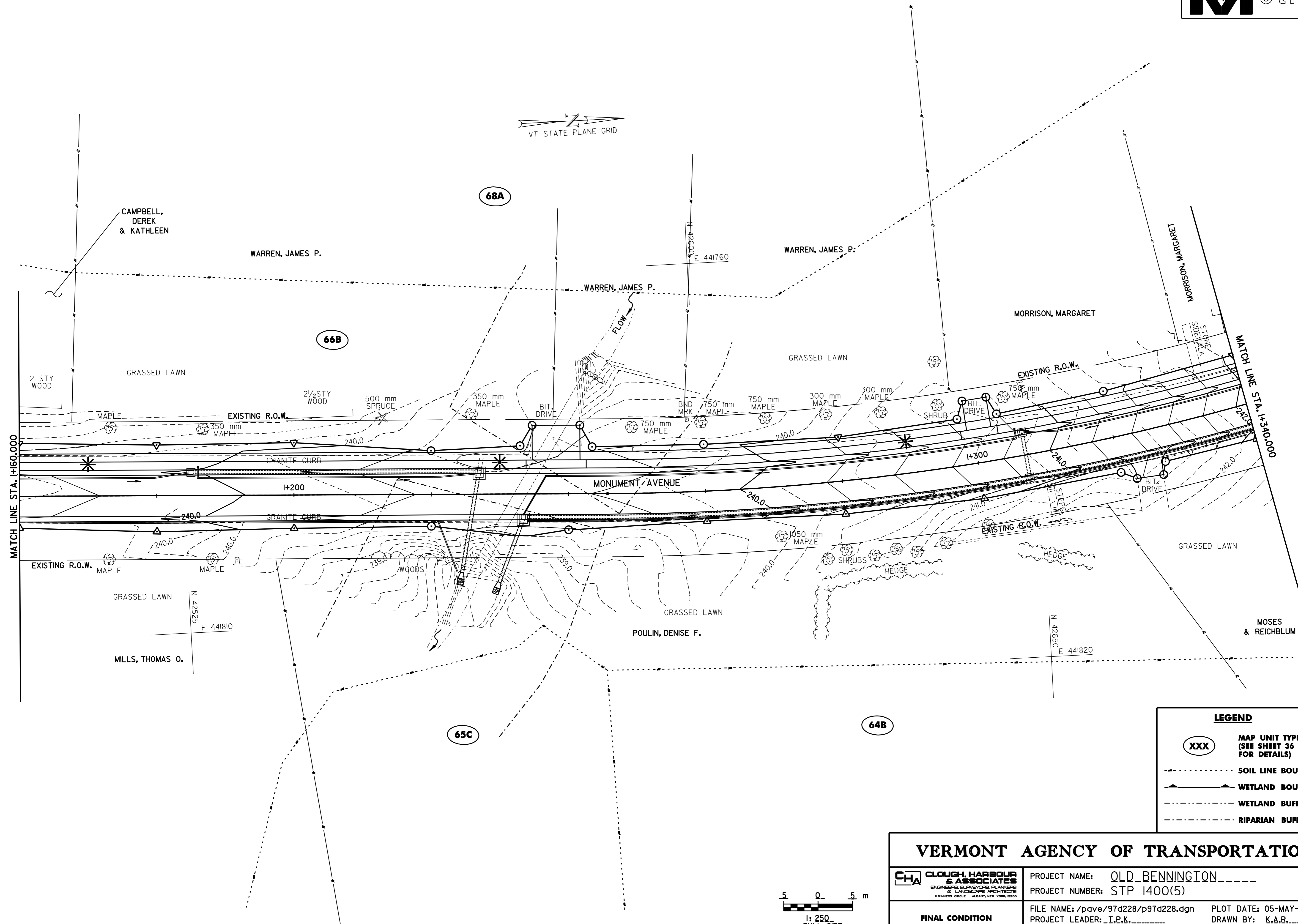
**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
110 BROADWAY, ALBANY, NEW YORK, 12204

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

**FINAL CONDITION  
PLAN # 01**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
**p97d228fcp01.i** SHEET 46 OF 48





MATCH LINE STA. I+160.000

MATCH LINE STA. I+340.000

LEGEND	
<b>XXX</b>	MAP UNIT TYPE (SEE SHEET 36 FOR DETAILS)
	SOIL LINE BOUNDARY
	WETLAND BOUNDARY
	WETLAND BUFFER
	RIPARIAN BUFFER

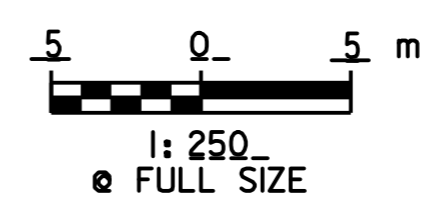
**VERMONT AGENCY OF TRANSPORTATION**

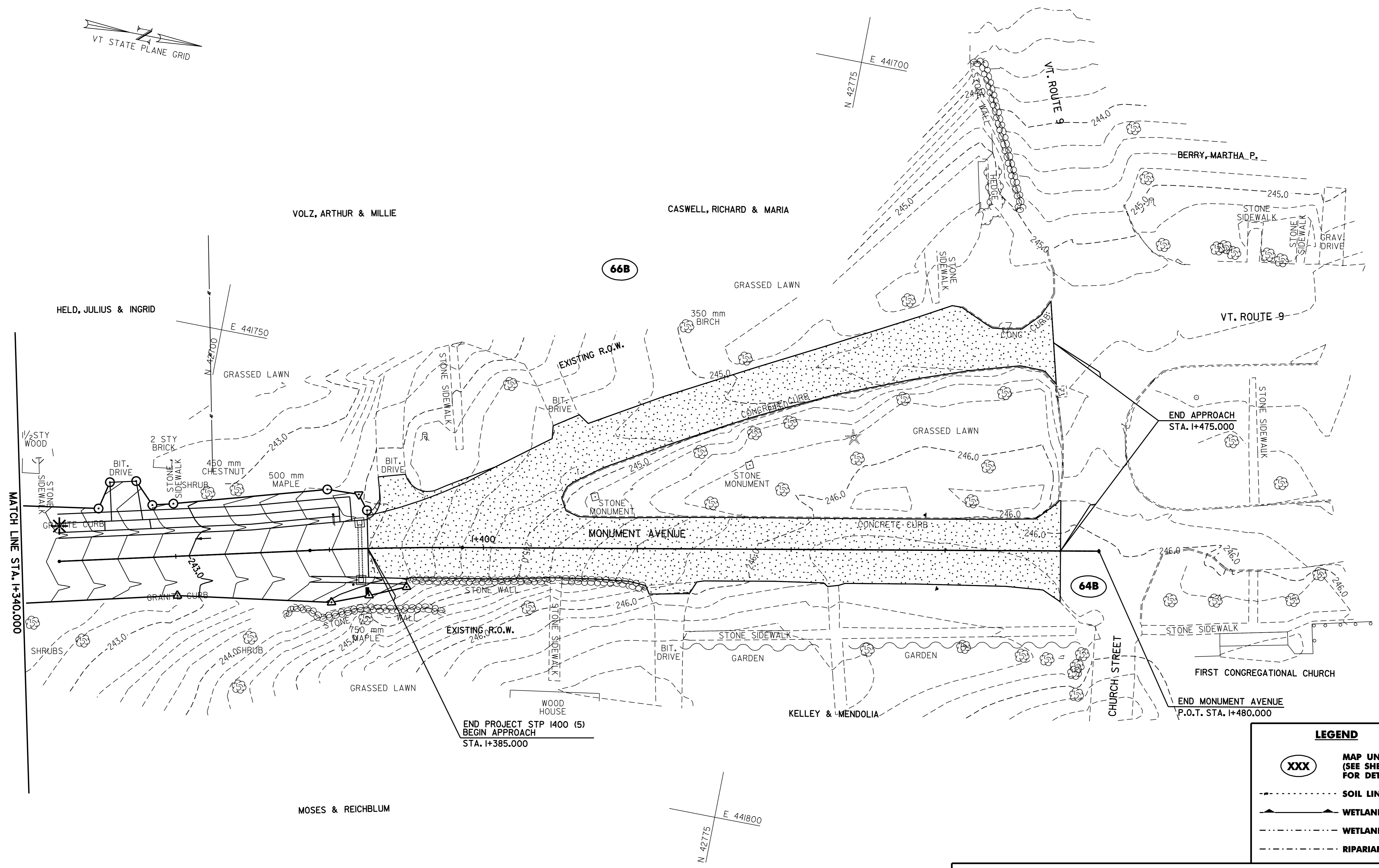
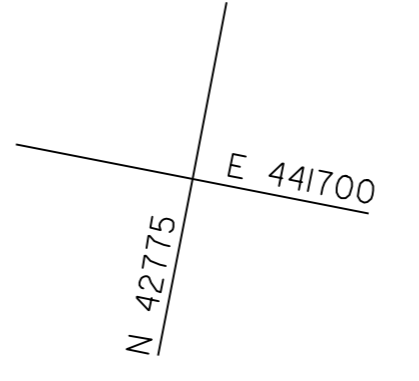
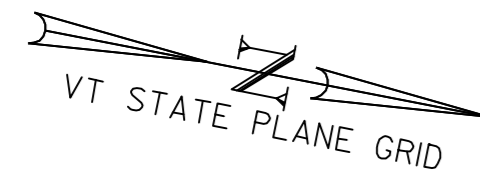
**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
8 BROADWAY, ALBANY, NEW YORK, 12204

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

**FINAL CONDITION  
PLAN # 02**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
p97d228fcp02.i SHEET 47 OF 48





LEGEND	
	MAP UNIT TYPE (SEE SHEET 36 FOR DETAILS)
	SOIL LINE BOUNDARY
	WETLAND BOUNDARY
	WETLAND BUFFER
	RIPARIAN BUFFER

**VERMONT AGENCY OF TRANSPORTATION**

**CHA** CLOUGH, HARBOUR & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS  
11 WINNERS CIRCLE ALBANY, NEW YORK, 12208

PROJECT NAME: OLD BENNINGTON  
PROJECT NUMBER: STP 1400(5)

**FINAL CONDITION**  
**PLAN # 03**

FILE NAME: /pave/97d228/p97d228.dgn PLOT DATE: 05-MAY-2008 14:  
PROJECT LEADER: I.E.K. DRAWN BY: K.A.B.  
DESIGNED BY: J.S.P. CHECKED BY: D.E.G.  
**p97d228fcp03.i** SHEET 48 OF 48

DATUM	
VERTICAL	<u>N/A</u>
HORIZONTAL	<u>NAD_83_(1996)</u>

