

STATE OF VERMONT
AGENCY OF TRANSPORTATION

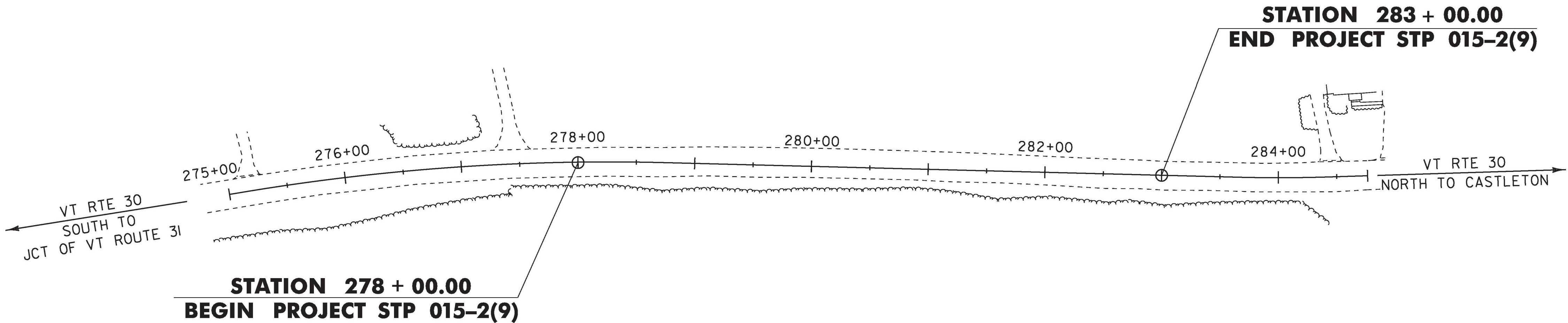
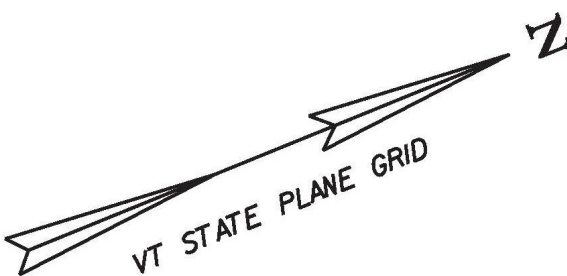
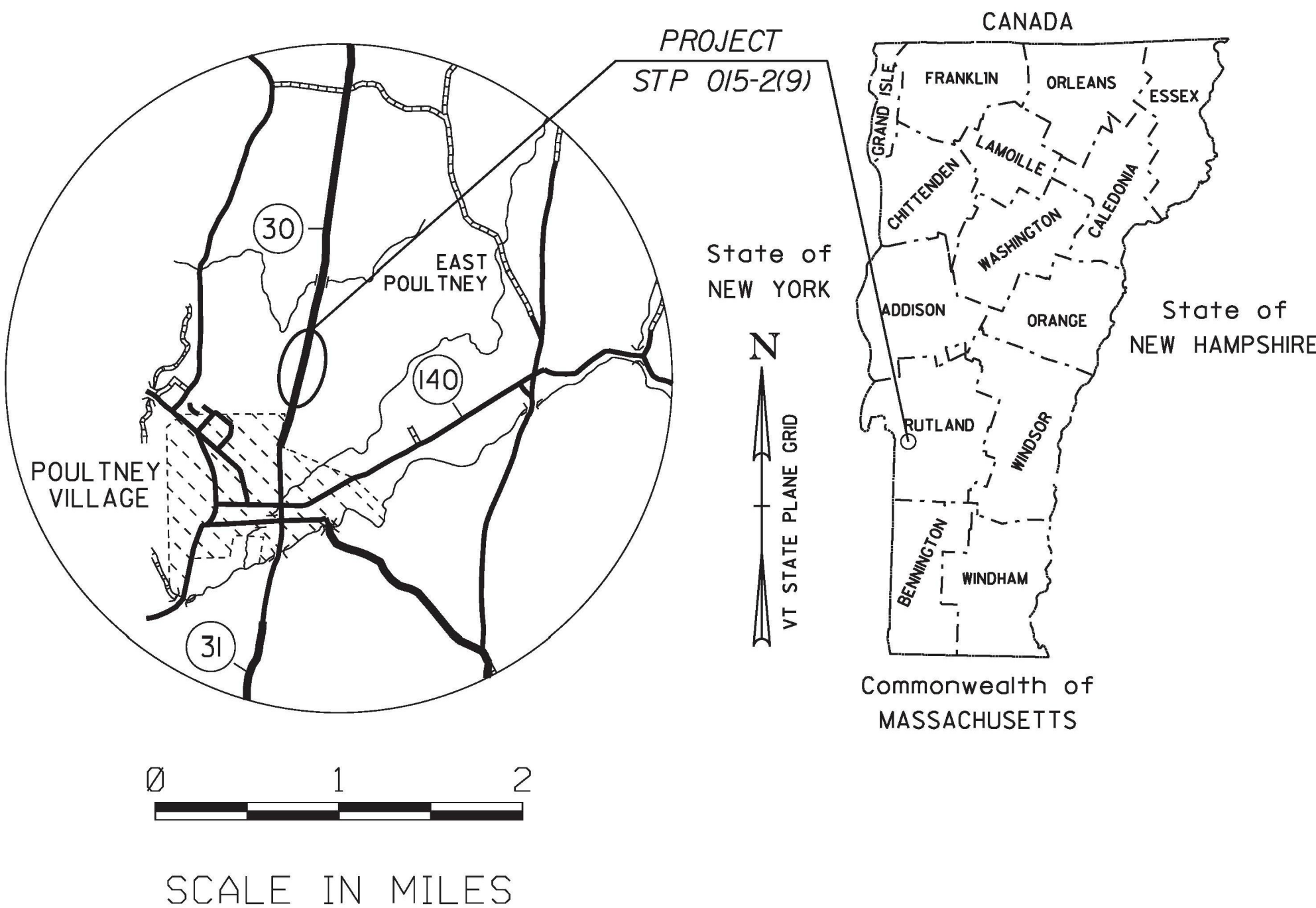


PROPOSED IMPROVEMENT
TOWN OF POULTNEY
COUNTY OF RUTLAND
VT ROUTE 30 (MINOR ARTERIAL)

BEGINNING IN THE TOWN OF POULTNEY ON VERMONT ROUTE 30 AT STATION 278+00.00 (MM 5.265)
AND EXTENDING NORTHERLY APPROXIMATELY 500.00 FEET (0.095 MILE) TO STATION 283+00.00 (MM 5.359).

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES ROADWAY RECONSTRUCTION, SLOPE STABILIZATION,
LEDGE REMOVAL, DRAINAGE AND OTHER HIGHWAY RELATED ITEMS.

LENGTH OF PROJECT: ROADWAY 500.00 FEET = 0.095 MILES



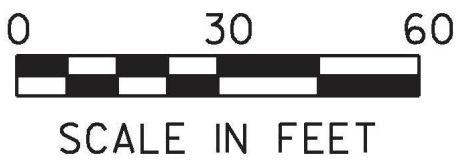
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	VTRANS
SURVEYED DATE :	2011
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(92)

TRAFFIC DATA
VERMONT ROUTE 30

	2015	2035	2055
AADT	3200	3400	-
DHV	360	380	-
ADTT	230	390	-
% T	5.3	8.4	-
% D	64	64	-
FLEXIBLE ESAL	-	2015-2035	2015-2055
		1,245,000	2,848,000

POSTED SPEED LIMIT = 50 MPH



Record Plans
Contractor: B.U.R. CONSTRUCTION, LLC
Resident Engineer: JACE CURTIS
Construction Began: APRIL 10, 2019
Construction Complete: SEPTEMBER 30, 2019
Record Plans By: JUDY GILMORE

I hereby certify that all construction required by this set of drawings has been
accomplished as indicated herein.

E-SIGNED by Jace Curtis
on 2021-01-11 18:10:49 GMT Resident Engineer

Date: January 11, 2021

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.

DIRECTOR OF PROJECT DELIVERY	
APPROVED	<u>Wayne Symonds, PE</u> DATE <u>Aug 23, 2018</u>
PROJECT MANAGER : KEN UPMAL, P.E.	
PROJECT NAME :	POULTNEY
PROJECT NUMBER :	STP 015-2(9)
SHEET 1 OF 48 SHEETS	

INDEX OF SHEETS

INDEX OF SHEETS

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VAOT DETAILS

HSD-400.01	SAFETY EDGE DETAIL	01/05/2018
HSD-621.06	GUARDRAIL TERMINAL LABEL DETAIL	02/27/2017

VAOT DESIGN STANDARDS

B-5	06/01/1994
D-II	06/01/1994
D-16	06/01/1994
E-121	08/08/1995
G-1	03/10/2017
G-1d	03/10/2017
T-1	04/25/2016
T-10	08/06/2012
T-13	08/06/2012
T-28	08/06/2012
T-30	08/06/2012
T-45	01/02/2013

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048.frm	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
INDEX SHEET	SHEET 2 OF 48

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R. O. W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
▣	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌘	APL	BOUND APPARENT LOCATION
▣	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⌘	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⌘	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
⊙	GASFIL	GAS FILLER
⊙	GP	GUIDE POST
×	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
×	GV	GATE VALVE
⊙	H	TREE HARDWOOD
▣	HCTRL	CONTROL HORIZONTAL
▣	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⌘	LI	LIGHT - STREET OR YARD
⌘	MB	MAILBOX
⊙	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⌘	RRSIG	RAILROAD SIGNAL
⌘	RRSL	RAILROAD SWITCH LEVER
⌘	S	TREE SOFTWOOD
⊙	SAT	SATELLITE DISH
⊙	SHRUB	SHRUB
⌘	SIGN	SIGN
⌘	STUMP	STUMP
⌘	TEL	TELEPHONE POLE
⊙	TIE	TIE
⌘	TSIGN	SIGN W/DOUBLE POST
⌘	VCTRL	CONTROL VERTICAL
⊙	WELL	WELL
×	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

— UGU —	.. - - - -	UTILITY (GENERIC-UNKNOWN)
— UT —	.. - - - -	TELEPHONE
— UE —	.. - - - -	ELECTRIC
— UC —	.. - - - -	CABLE (TV)
— UEC —	.. - - - -	ELECTRIC+CABLE
— UET —	.. - - - -	ELECTRIC+TELEPHONE
— UCT —	.. - - - -	CABLE+TELEPHONE
— UECT —	.. - - - -	ELECTRIC+CABLE+TELEP.
— G —	.. - - - -	GAS LINE
— W —	.. - - - -	WATER LINE
— S —	.. - - - -	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	.. - - - -	UTILITY (GENERIC-UNKNOWN)
— T —	.. - - - -	TELEPHONE
— E —	.. - - - -	ELECTRIC
— C —	.. - - - -	CABLE (TV)
— EC —	.. - - - -	ELECTRIC+CABLE
— ET —	.. - - - -	ELECTRIC+TELEPHONE
— AER E&T —	.. - - - -	ELECTRIC+TELEPHONE
— CT —	.. - - - -	CABLE+TELEPHONE
— ECT —	.. - - - -	ELECTRIC+CABLE+TELEP.
— .. —	.. - - - -	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— - - - - CZ — - - - -	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

▲ —▲ —▲ —▲ —	TOP OF CUT SLOPE
● —● —● —● —	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH
-----	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF — PDF —	PROJECT DEMARCATION FENCE
BF — x — x — BF — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//////////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

—————	TOWN LINE	TOWN BOUNDARY LINE
—————	COUNTY LINE	COUNTY BOUNDARY LINE
—————	STATE LINE	STATE BOUNDARY LINE
——— / —— / ——		PROPOSED STATE R.O.W. (LIMITED ACCESS)
——— / —— / ——		PROPOSED STATE R.O.W.
——— / —— / ——		STATE ROW (LIMITED ACCESS)
——— / —— / ——		STATE ROW
——— / —— / ——		TOWN ROW
— . . . . . — . . . . . — . . . . .		PERMANENT EASEMENT LINE (P)
— . . . . . — . . . . . — . . . . .		TEMPORARY EASEMENT LINE (T)
— . . . . . — . . . . . — . . . . .		SURVEY LINE
— P — — L — — P — — L — —		PROPERTY LINE (P/L)
▲ — SR — ● — SR — ▲ — SR — ● —		SLOPE RIGHTS
6f ————— 6f —————		6F PROPERTY BOUNDARY
4f ————— 4f —————		4F PROPERTY BOUNDARY
HAZ ————— HAZ —————		HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— x — x — x — x — x —	SILT FENCE WOVEN WIRE
▶ —▶ —▶ —▶ —▶ —▶ —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

ENVIRONMENTAL RESOURCES

———	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
——— T&E ———	THREATENED & ENDANGERED SPECIES
——— HAZ ——— HAZ ———	HAZARDOUS WASTE AREA
——— AG ———	AGRICULTURAL LAND
——— HABITAT ———	FISH & WILDLIFE HABITAT
——— FLOOD PLAIN ———	FLOOD PLAIN
——— OHW ———	ORDINARY HIGH WATER (OHW)
———	STORM WATER
-----	USDA FOREST SERVICE LANDS
— . . . . . — . . . . .	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

——— ARCH ———	ARCHEOLOGICAL BOUNDARY
——— HISTORIC DIST ———	HISTORIC DISTRICT BOUNDARY
——— HISTORIC ———	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

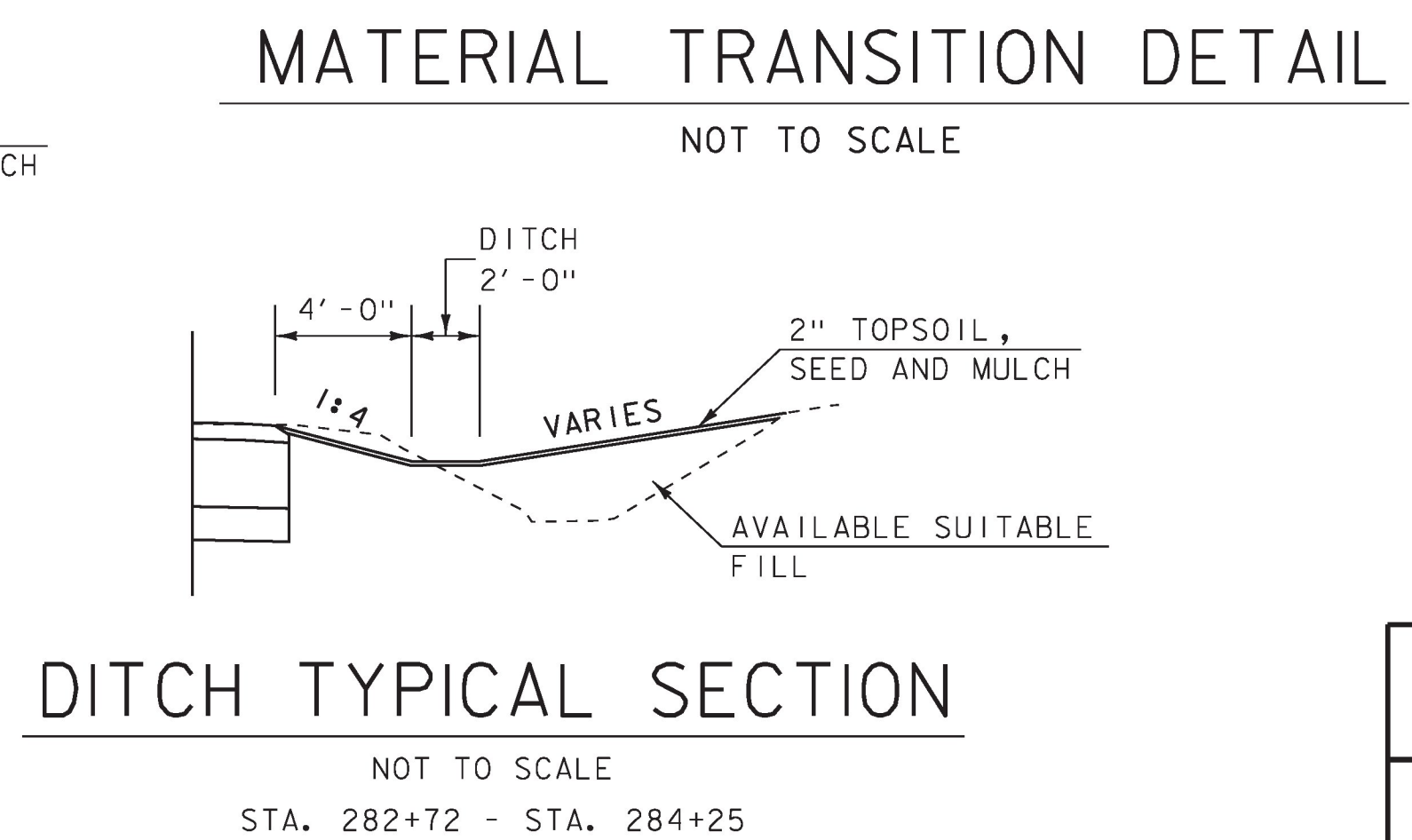
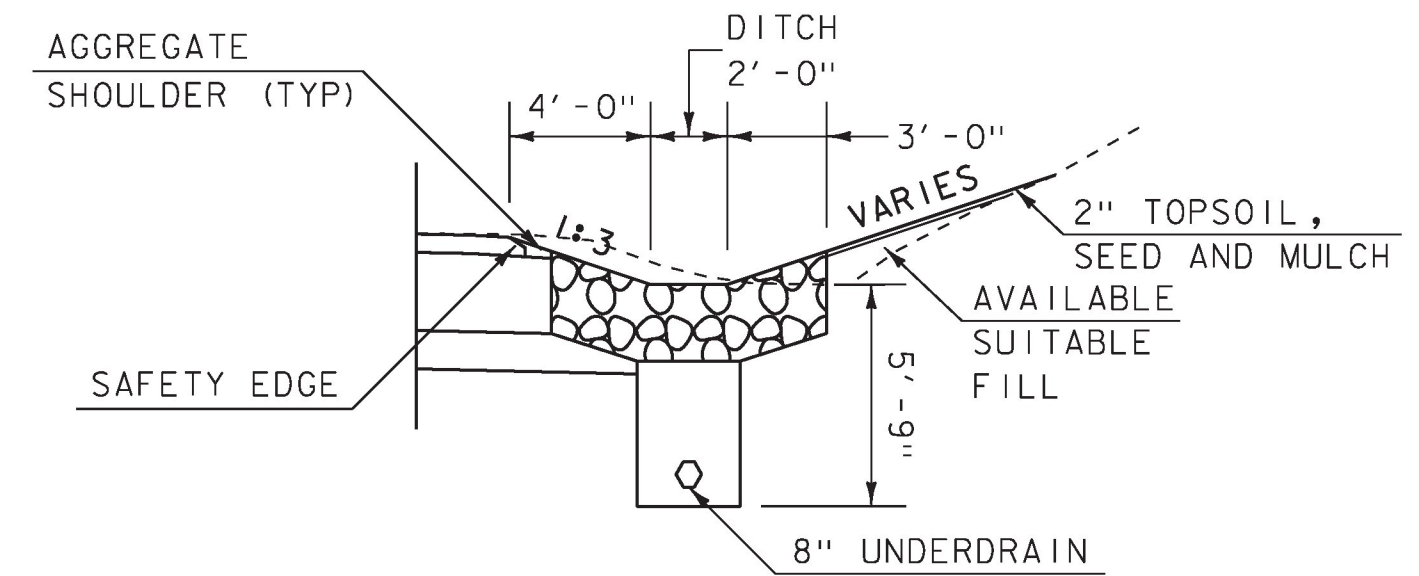
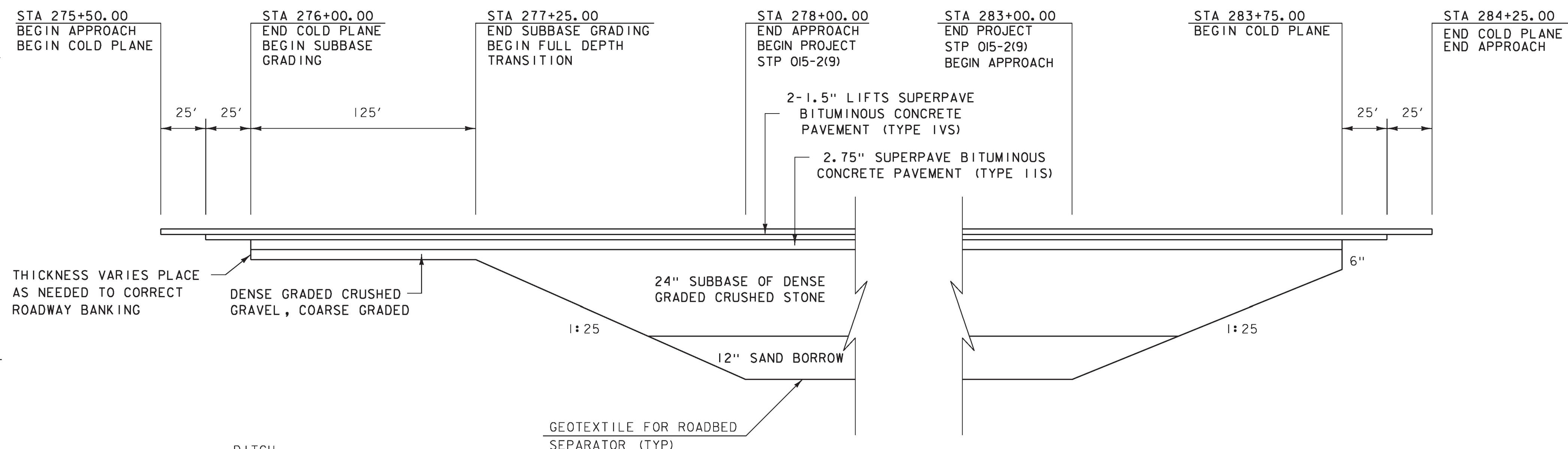
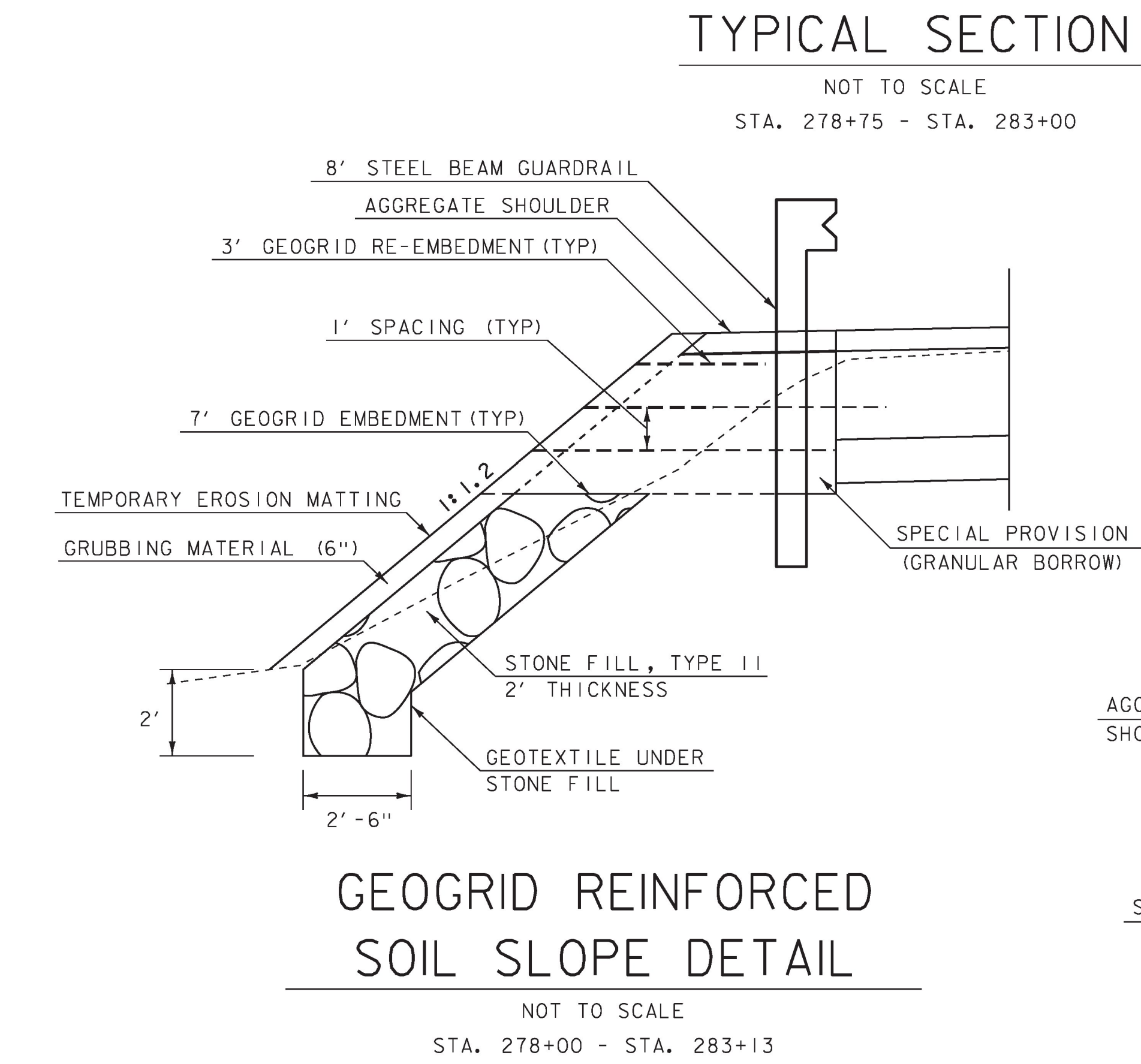
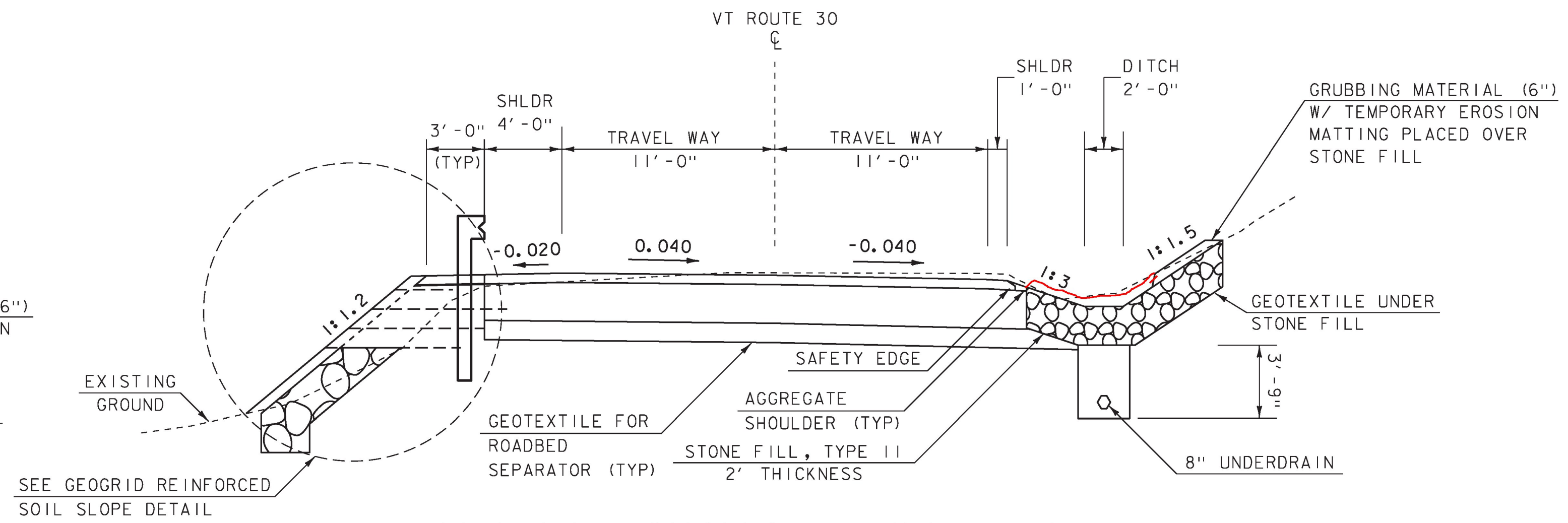
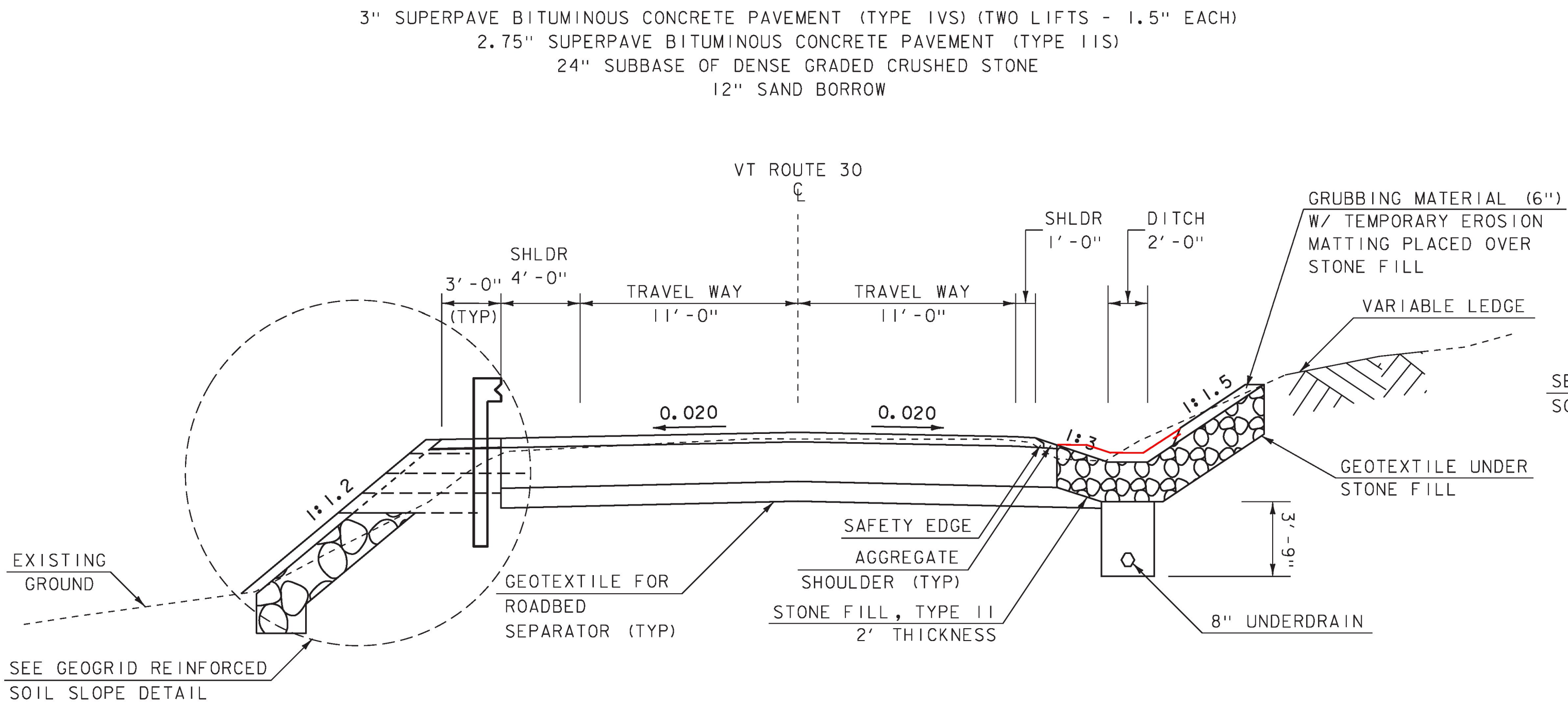
EXISTING FEATURES

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
———	FOUNDATION
x — x — x — x —	FENCE (EXISTING)
□ — □ — □ — □ —	FENCE WOOD POST
○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~~	GARDEN
○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
ooooo	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
-----	BODY OF WATER EDGE
▣	LEDGE EXPOSED

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME: dlib048frm	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CONVENTIONAL LEGEND SYMBOLGY SHEET	SHEET 3 OF 48



THICKNESS TOLERANCES			
PAVEMENT	1/4" +/-	TOTAL PAVEMENT THICKNESS	
SUBBASE	1" +/-	TOTAL SUBBASE THICKNESS	
SAND BORROW	1" +/-	TOTAL SAND BORROW THICKNESS	

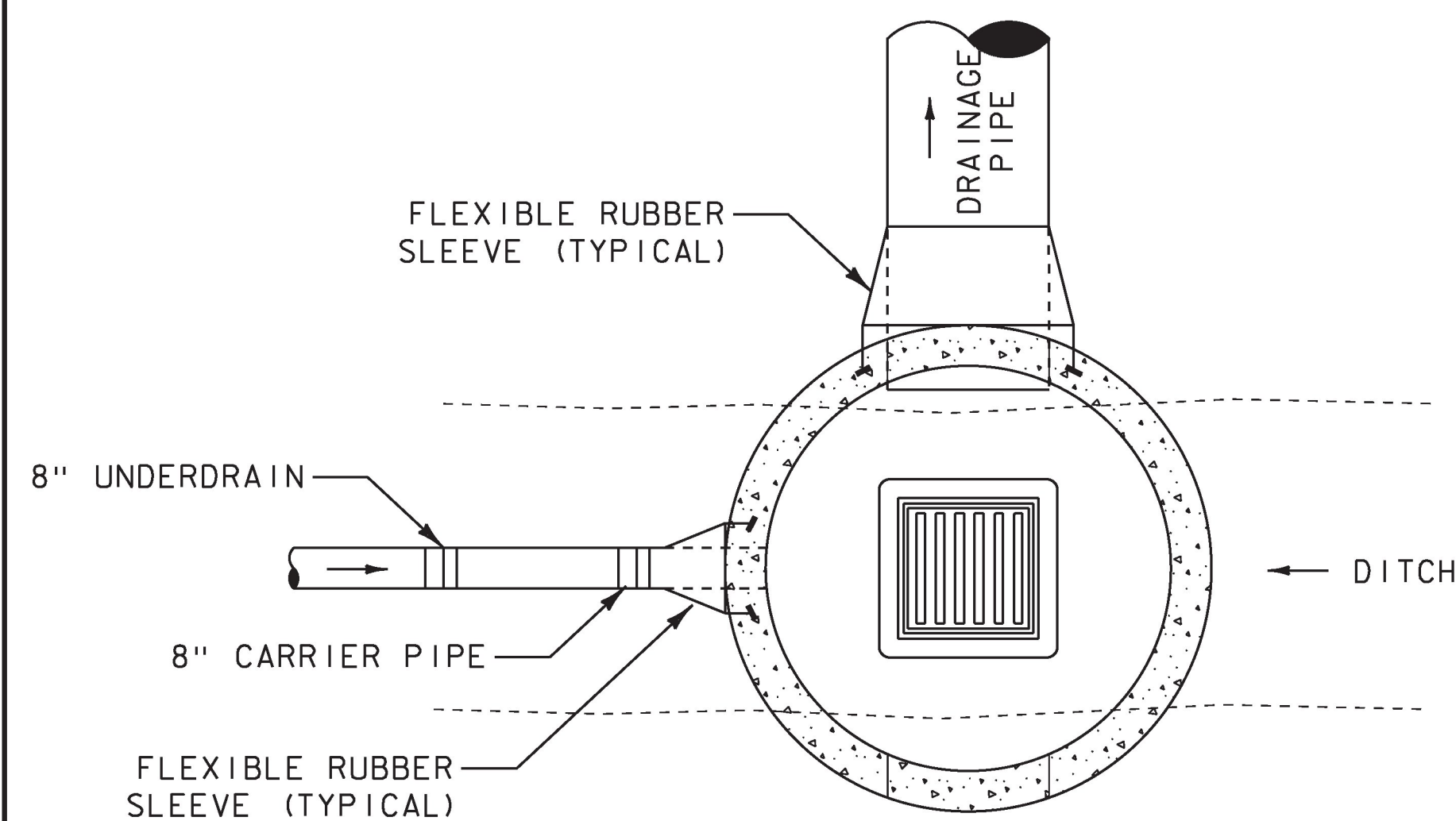


NOTES

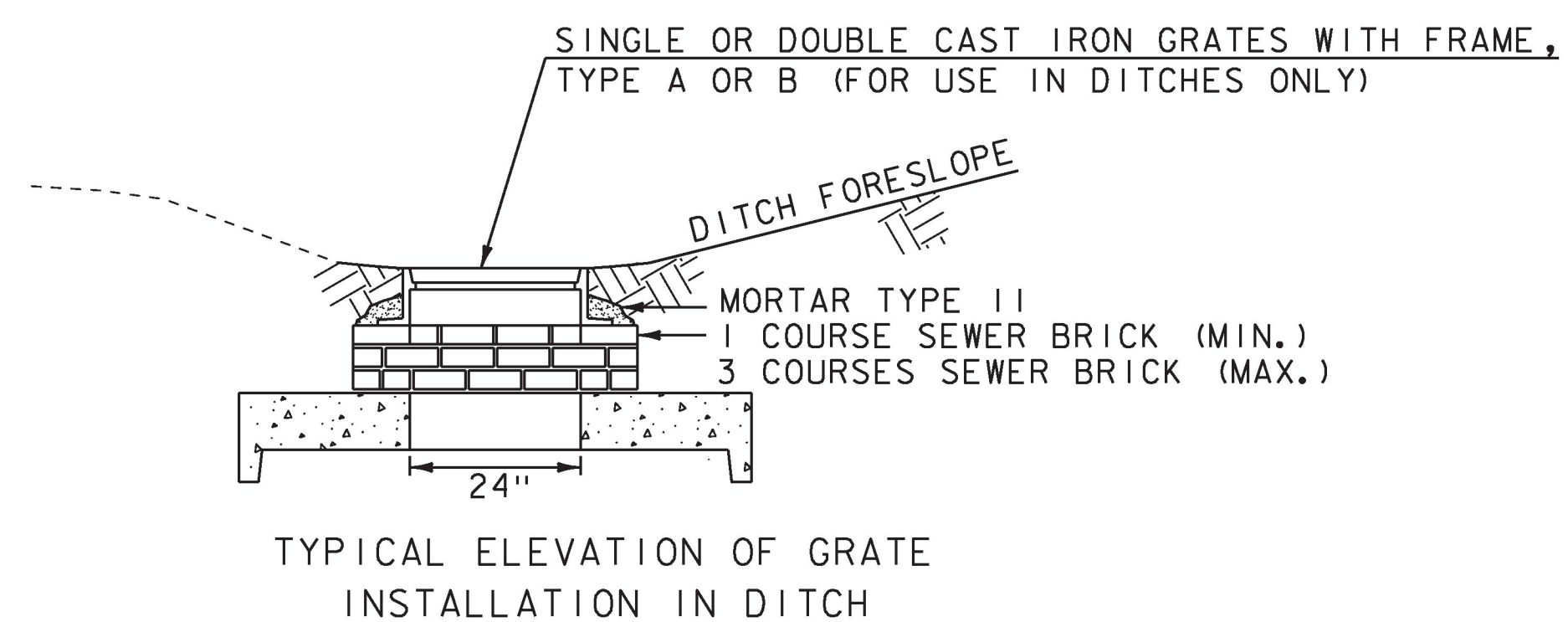
1. TACK COAT: EMULSIFIED ASPHALT SHALL BE APPLIED AT THE RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT, AT A RATE OF 0.080 GAL/SY ON COLD PLANED SURFACES, OR AS DIRECTED BY THE ENGINEER. THIS WILL BE PAID UNDER ITEM 404.65, EMULSIFIED ASPHALT.

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	dlib048typ
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
TYPICAL SECTION SHEET	
PLOT DATE:	23-AUG-2018
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
SHEET	4 OF 48

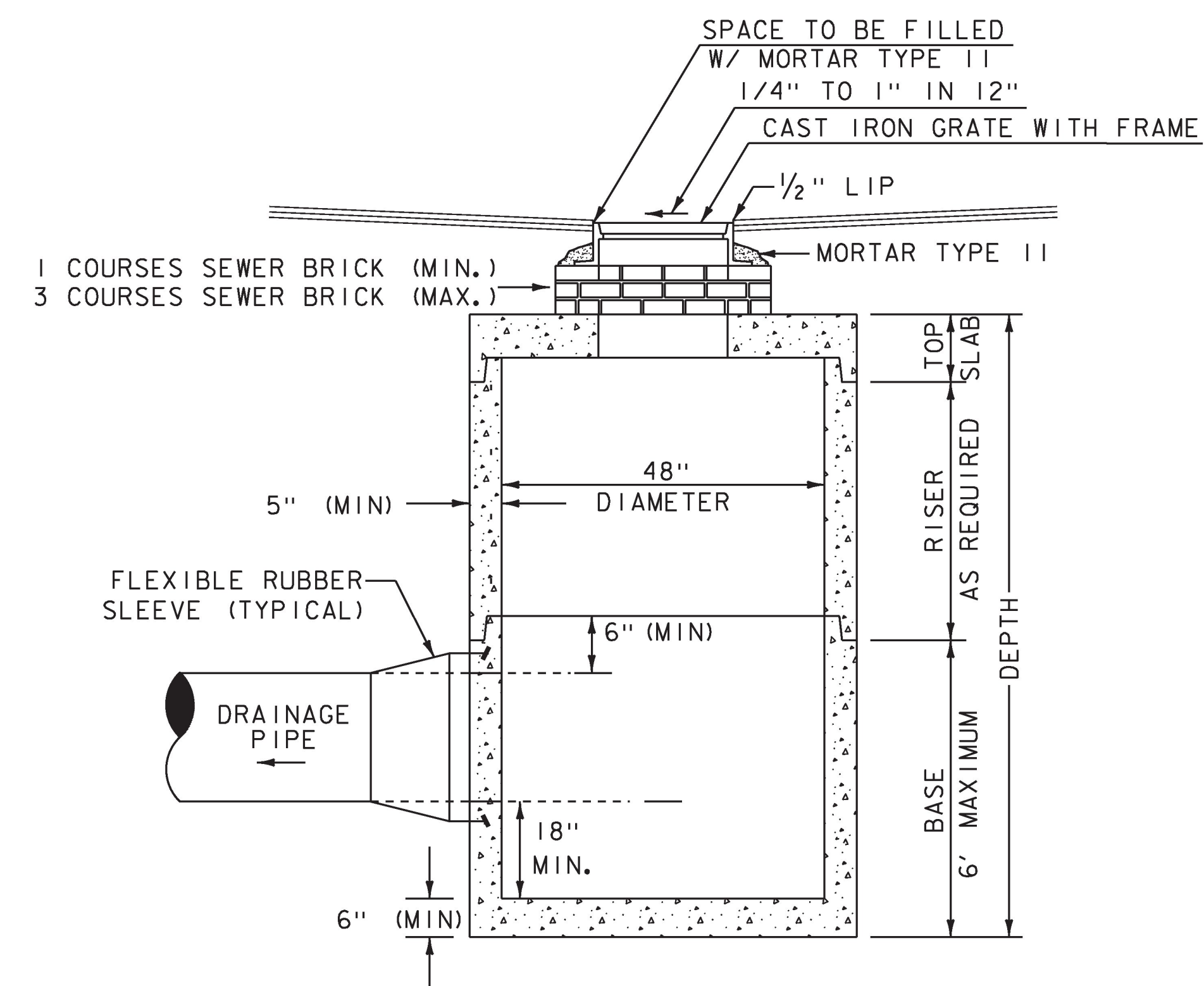




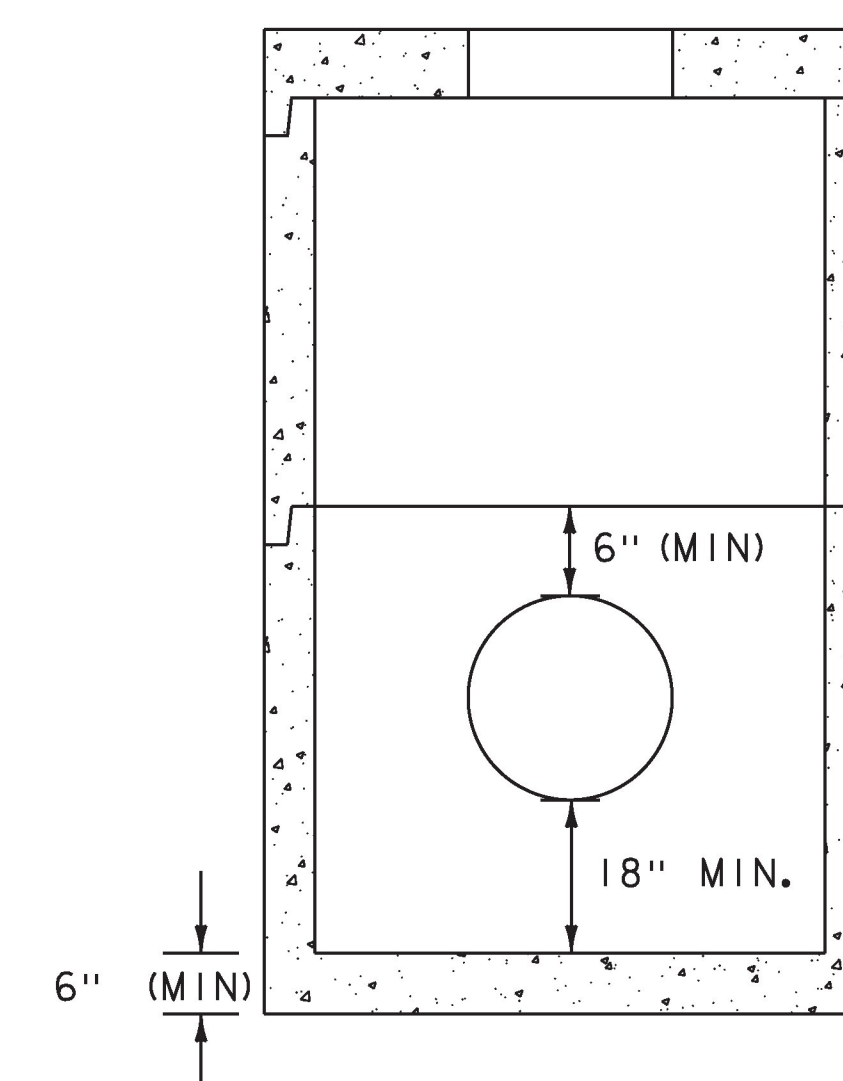
SINGLE GRATE CATCH BASIN  
PLAN VIEW W/ UNDERDRAIN



TYPICAL ELEVATION OF GRATE  
INSTALLATION IN DITCH



ELEVATION VIEW



SIDE VIEW

TYPICAL PRECAST REINFORCED CATCH BASIN  
WITH CAST IRON GRATE

PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE:

- 1) PRECAST CONCRETE SECTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND ASTM C-478.
- 2) MINIMUM CONCRETE COMPRESSIVE STRENGTH: 5,000 PSI AT 28-DAYS
- 3) STEEL REINFORCING SHALL CONFORM TO ASTM A185 OR A82 FOR HS-25 LOADING.
- 4) STEPS SHALL BE 16" WIDE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC CONFORMING TO ASTM C-478 AND SHALL BE CAST INTO MANHOLE SECTIONS BY THE PRECAST CONCRETE MANUFACTURER.
- 5) FACE OF PIPE SHALL NOT PROJECT MORE THAN TWO INCHES OR LESS THAN ONE INCH FROM INSIDE WALL OF STRUCTURE.
- 6) ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN THREE INCHES TO JOINTS.
- 7) FITTING FRAME TO FINAL GRADE MAY BE DONE WITH BRICK OR PRECAST CONCRETE GRADE RINGS MEETING ASTM C-478 OF APPROPRIATE THICKNESS (THREE COURSES MAX) WILL BE CONSIDERED INCIDENTAL TO ITEM 604.20 PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A).
- 8) FLAT SLAB TOPS SHALL BE USED FOR ALL CATCH BASINS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
- 9) ALL PIPE INVERTS AND PENETRATION ANGLES SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
- 10) PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT AND BE ASSEMBLED USING A BUTYL RUBBER OR EQUAL SEALANT, AS APPROVED BY THE ENGINEER.
- 11) PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO STRUCTURE. SLEEVES SHALL EITHER BE SNAP-IN-PLACE BOOTS PROVIDED BY THE MANUFACTURER OR CAST INTO PRECAST STRUCTURE BY THE FABRICATOR FOR ALL PIPE PENETRATIONS.
- 12) PAYMENT FOR INSTALLATION OF THE CATCH BASINS SHALL BE MADE UNDER ITEM 604.20 PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A).

SHEET NOT TO SCALE

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: dl1b048frm.dgn	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
DRAINAGE DETAIL SHEET 1	SHEET 5 OF 48



GPS CONTROL POINTS

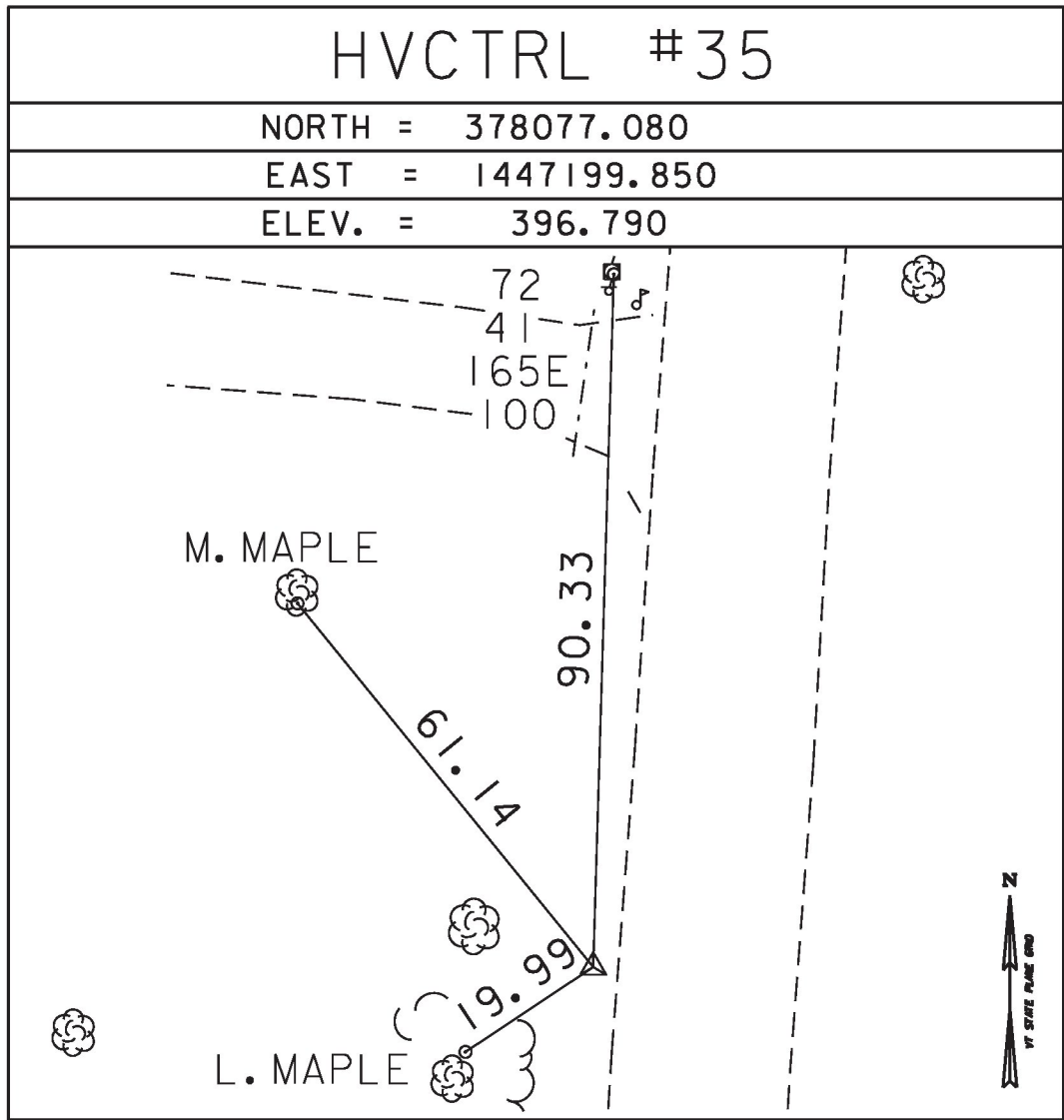
HOSFORD AZ MK  
NORTH = 373668.839  
EAST = 1445737.886  
ELEV. = 438.811

GENERAL LOCATION, POULTNEY, VT. \$ OWNERSHIP, ED BUTLER, 589 VT ROUTE 30 NORTH, POULTNEY, VT.05764. PHONE 802-287-9893. \$ TO REACH FROM THE INTERSECTION OF VT ROUTE 30 AND VT ROUTE 140 IN THE VILLAGE OF POULTNEY GO NORTH ALONG VT ROUTE 30 FOR 0.3 MI (0.5 KM) TO THE INTERSECTION OF A FIELD DRIVE LEFT, JUST NORTH OF A MOBILE HOME. TURN LEFT AND GO WEST ALONG THE FIELD DRIVE THROUGH A FIELD FOR ABOUT 75 M (246.1 FT) TO A LARGE ISLAND OF WOODS ON THE RIGHT. PASS AROUND THE SOUTH EDGE OF THE ISLAND OF WOODS TO A LARGE OPEN FIELD ON THE RIGHT. BEAR RIGHT AND GO NORTH THROUGH THE FIELD FOR ABOUT 100 M (328.1 FT) TO THE HIGH POINT OF THE FIELD. CONTINUE NORTH THROUGH THE FIELD FROM THE HIGH POINT FOR ABOUT 18 M (59.1 FT) TO THE SITE OF MARK IN THE TOP OF A 0.8 M (2.6 FT) X 0.4 M (1.3 FT) ROCK OUTCROP WHICH IS FLUSH WITH GROUND SURFACE IN A NORTH SLOPING AREA OF THE FIELD. \$ IT IS 149 M (488.8 FT) WEST OF THE CENTERLINE OF VT ROUTE 30, 126 M (413.4 FT) MAG AZ 224 DEGREES FROM POLE NO.6, 123 M (403.5 FT) MAG AZ 171 DEGREES FROM POLE NO.5, AND 42.7 M (140.1 FT) WEST OF A FIBERGLASS WITNESS POST AND THE WEST EDGE OF THE AFOREMENTIONED LARGE ISLAND OF WOODS.

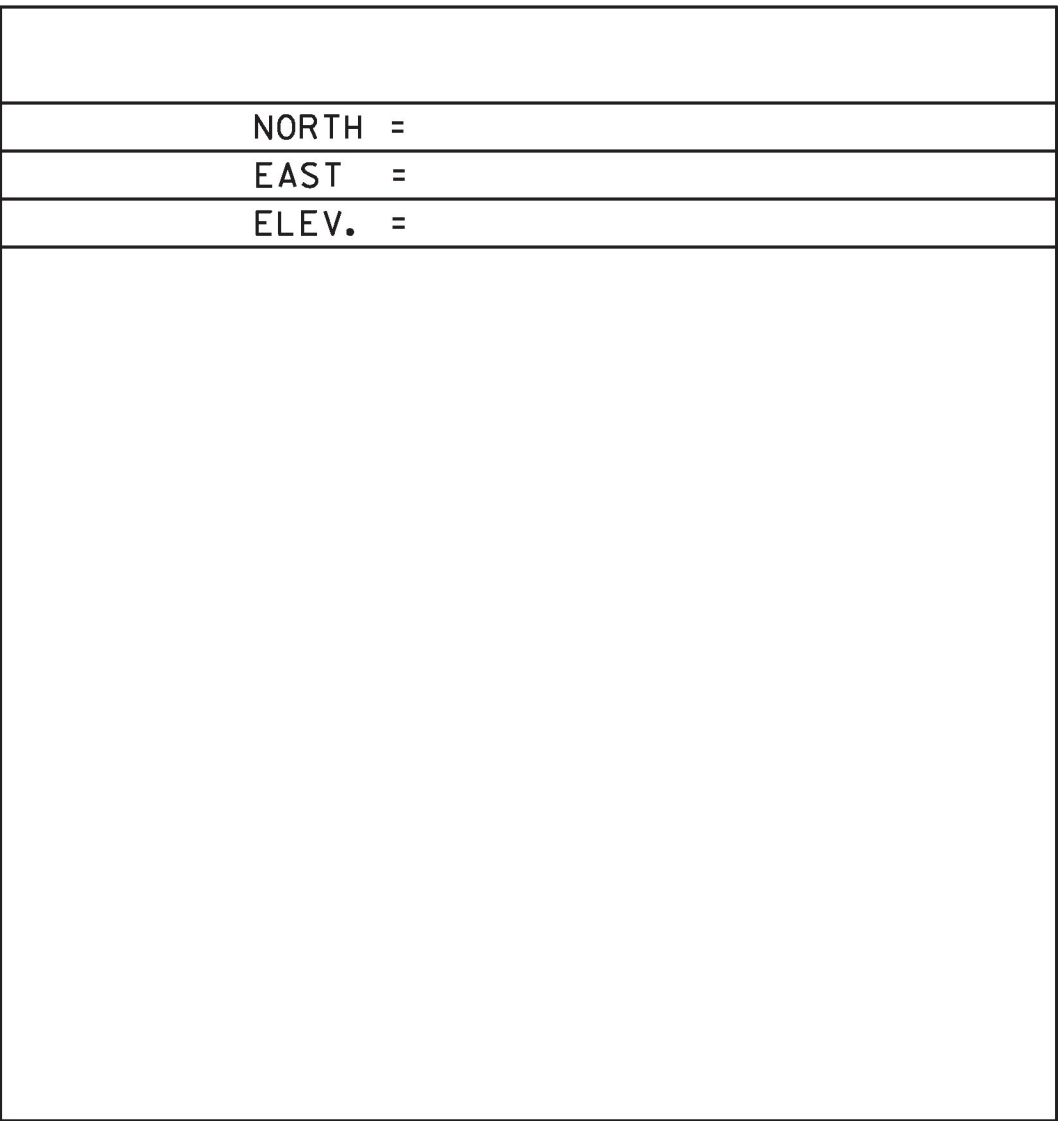
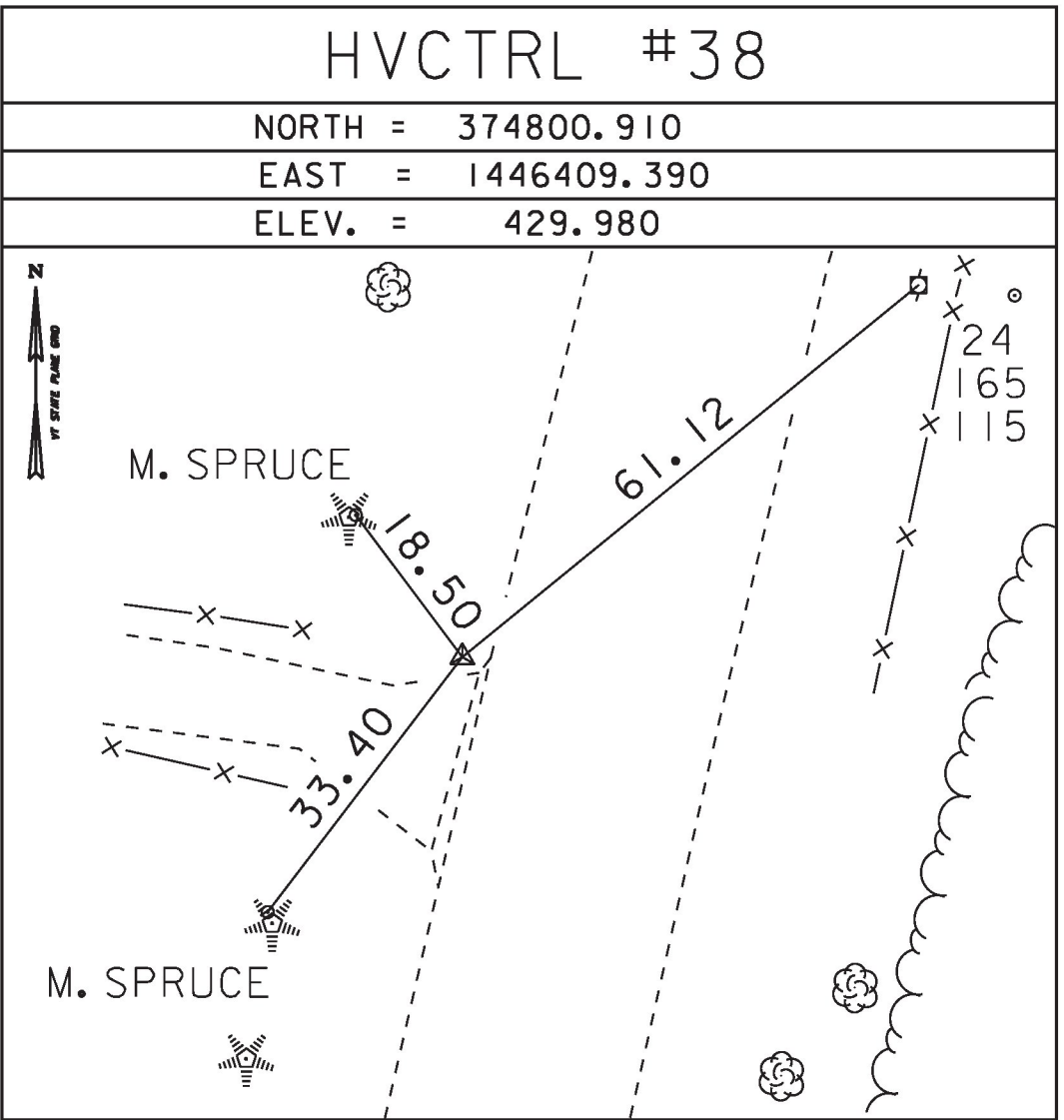
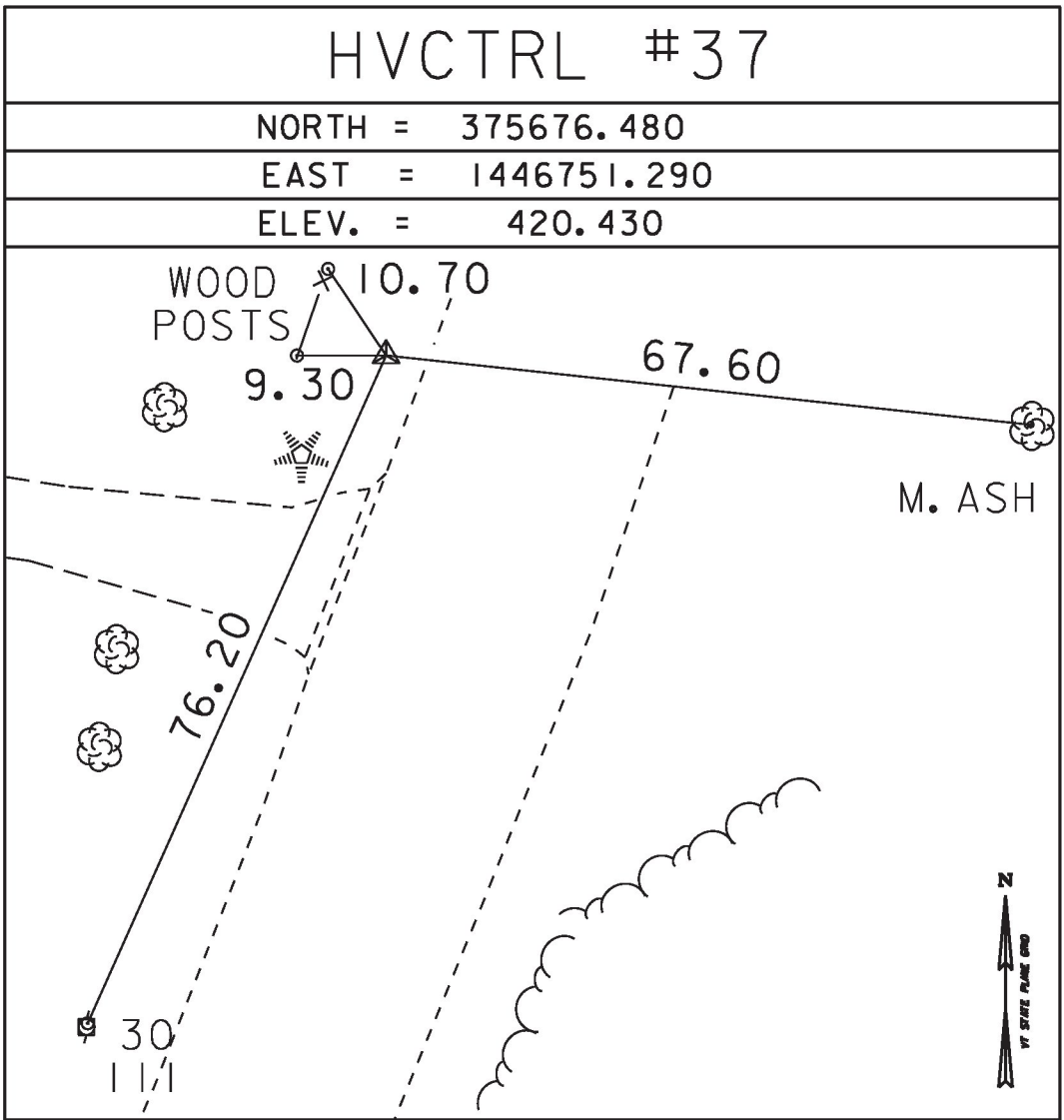
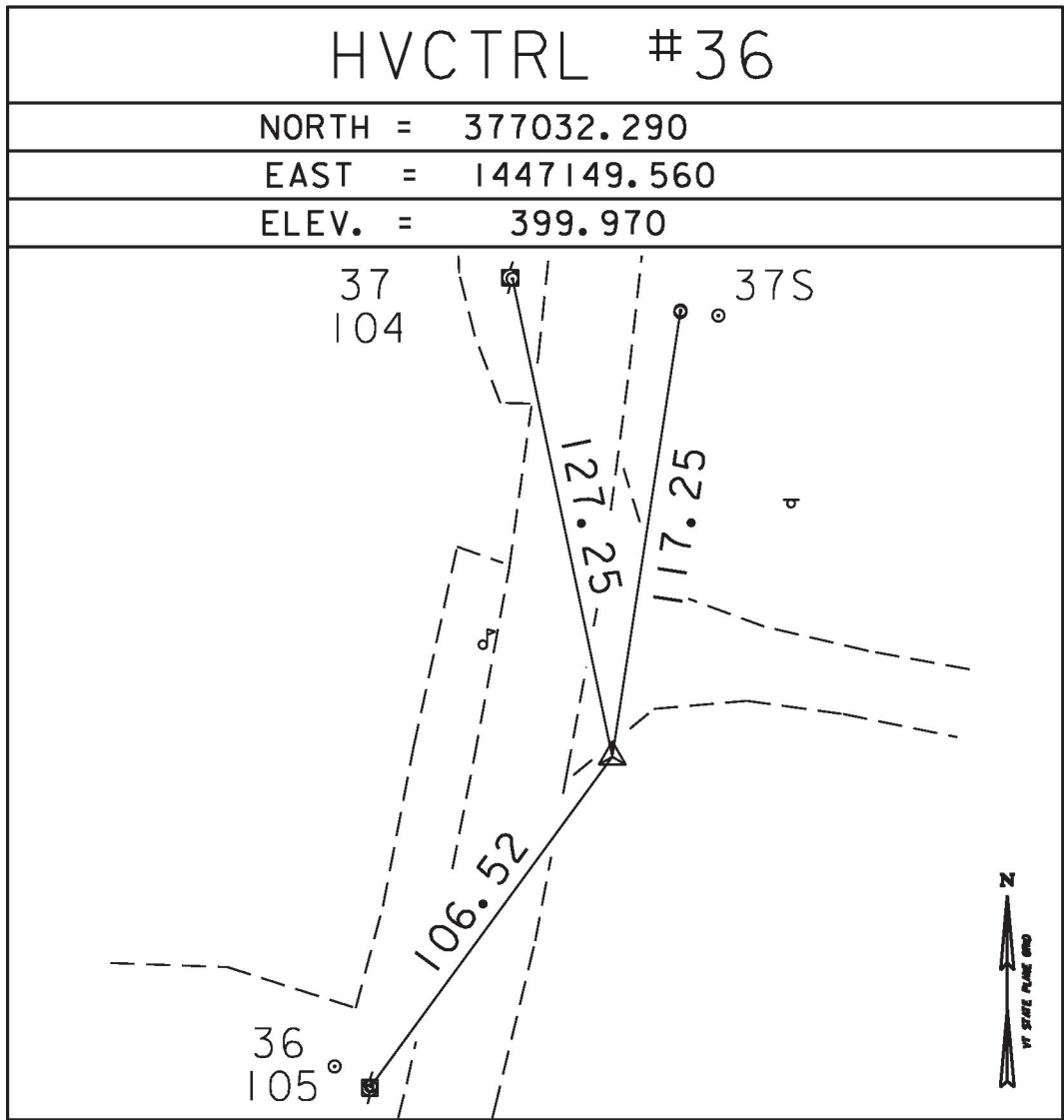
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EAST = 1448434.180  
ELEV. = 619.913

GENERAL LOCATITON, POULTNEY, VT. OWNERSHIP, WENDELL & LETHEA CARLSON, RD 1 BOX 339, POULTNEY,VT 05764 PHONE 802-287-9407 TO REACH FROM THE INTERSECTION OF VT ROUTES 30 AND 4A IN CASTLETON CORNERS GO SOUTH ALONG VT ROUTE 30 FOR 3.1 MI (5.0 KM) TO A LARGE RED BARN ON THE RIGHT, ACROSS THE ROAD FROM A BRICK AND WOOD FRAME HOUSE (OWNER). TURN RIGHT JUST BEFORE THE BARN INTO FIELD HEADING WESTERLY ALONG FIELD DRIVE FOR 0.1 MI (0.2 KM). THEN HEAD NORTH THROUGH FIELD TO UPPER FIELD FOR 0.2 MI (0.3 KM) TO SITE OF MARK AT THE SOUTH EDGE OF AN UNMOWED AREA, JUST SOUTHWEST OF THE HIGH POINT OF THE FIELD. TO REACH FROM THE INTERSECTION OF VT ROUTES 30 AND 140 IN POULTNEY GO NORTH ALONG VT ROUTE 30 FOR 3.5 MI (5.6 KM) TO THE BARN AND FIELD DRIVE ON THE LEFT. THE MARK IS SET 5 CM BELOW GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT ANCHORED TO BEDROCK AT 90 CM DEEP. IT IS AT THE SOUTH EDGE OF AN UNMOWED AREA. IT IS 7.7 M (25.3 FT) WEST OF A 20 CM TWIN PINE, 12.2 M (40.0 FT) SOUTHWEST OF A 10 CM ASH, 12.0 M (39.4 FT) SOUTH OF A 15 CM MAPLE, 11.1 M (36.4 FT) SOUTHEAST OF A CLUMP THORNAPPLE, AND 0.4 M (1.3 FT) SOUTH OF A FIBERGLASS WITNESS POST.

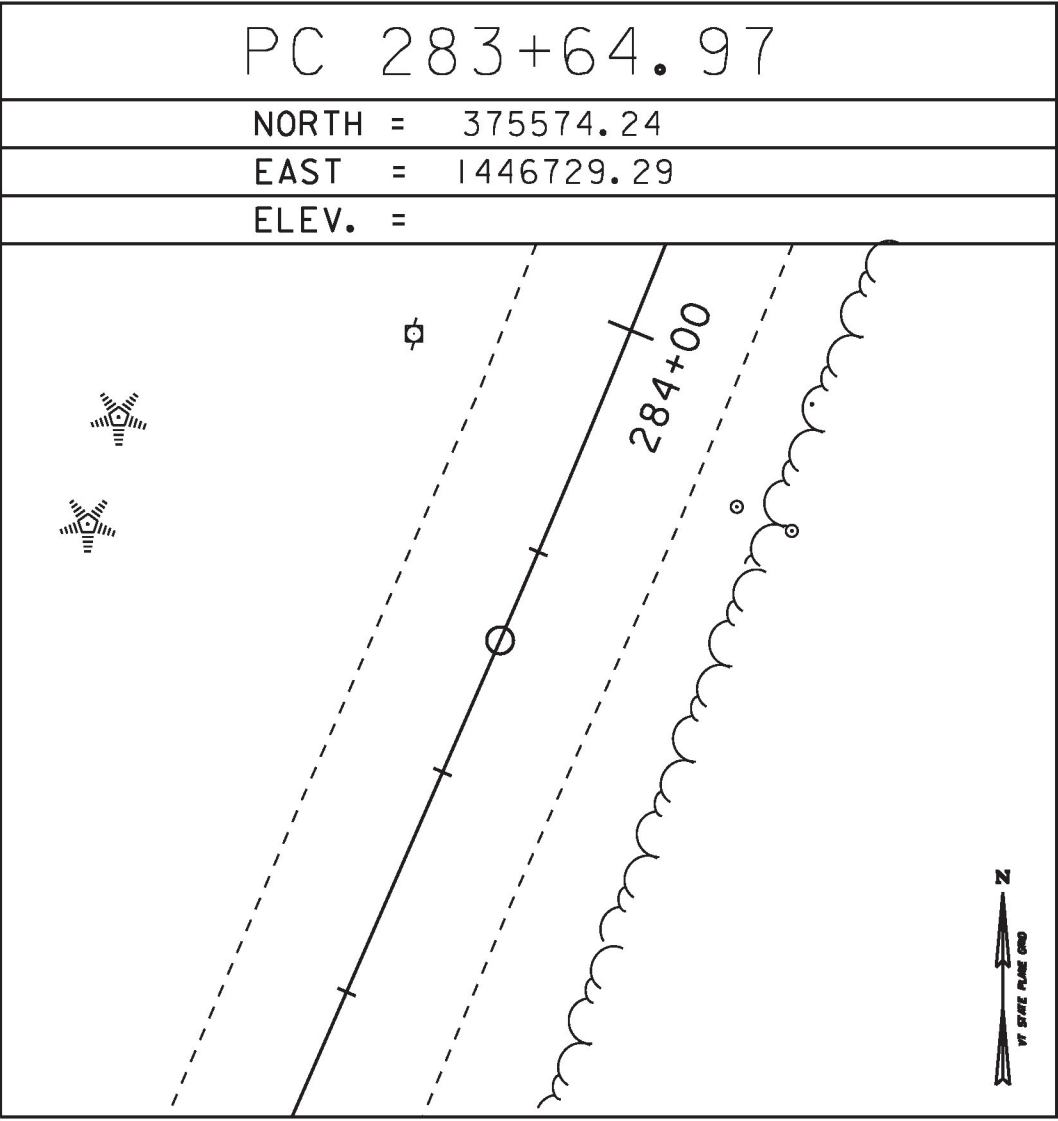
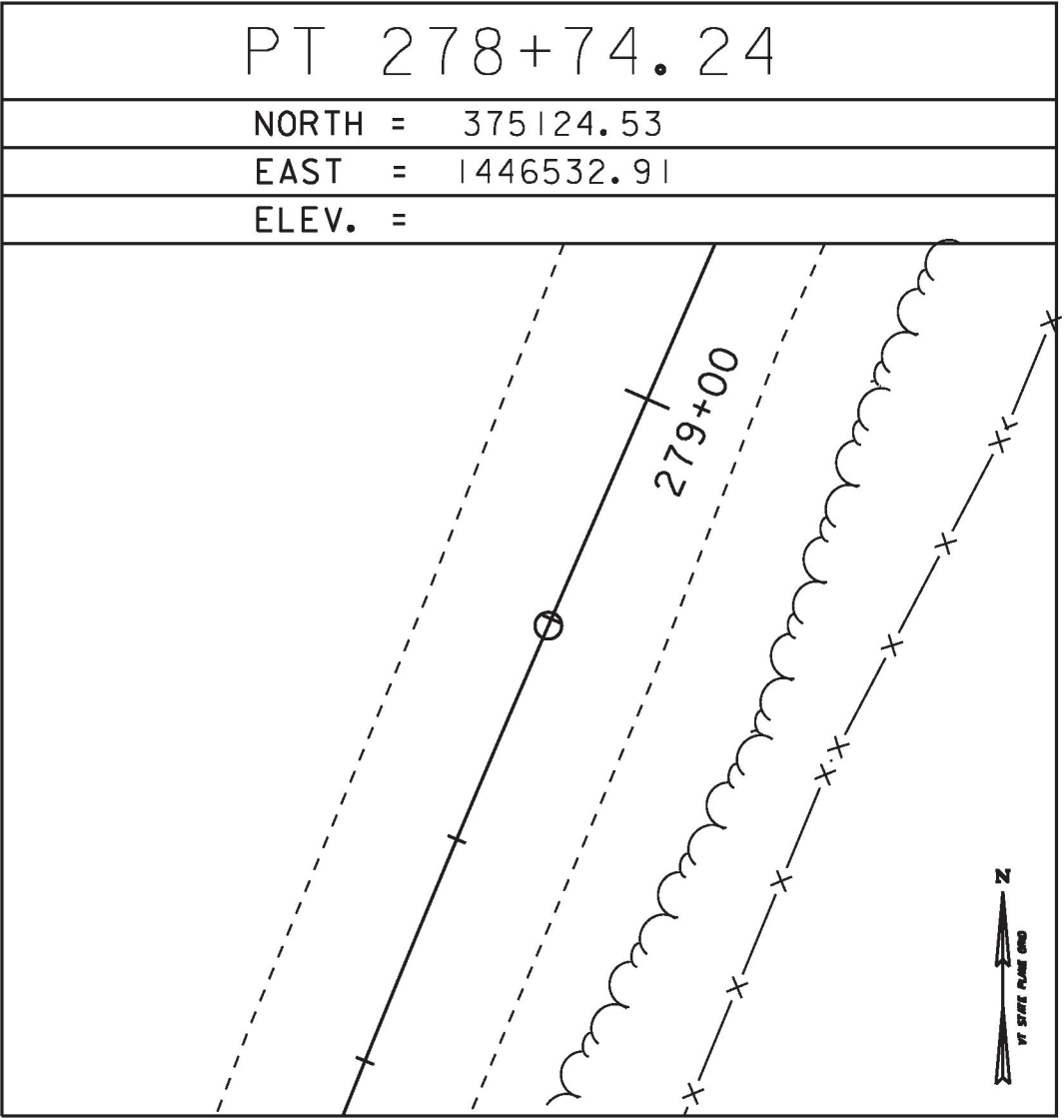
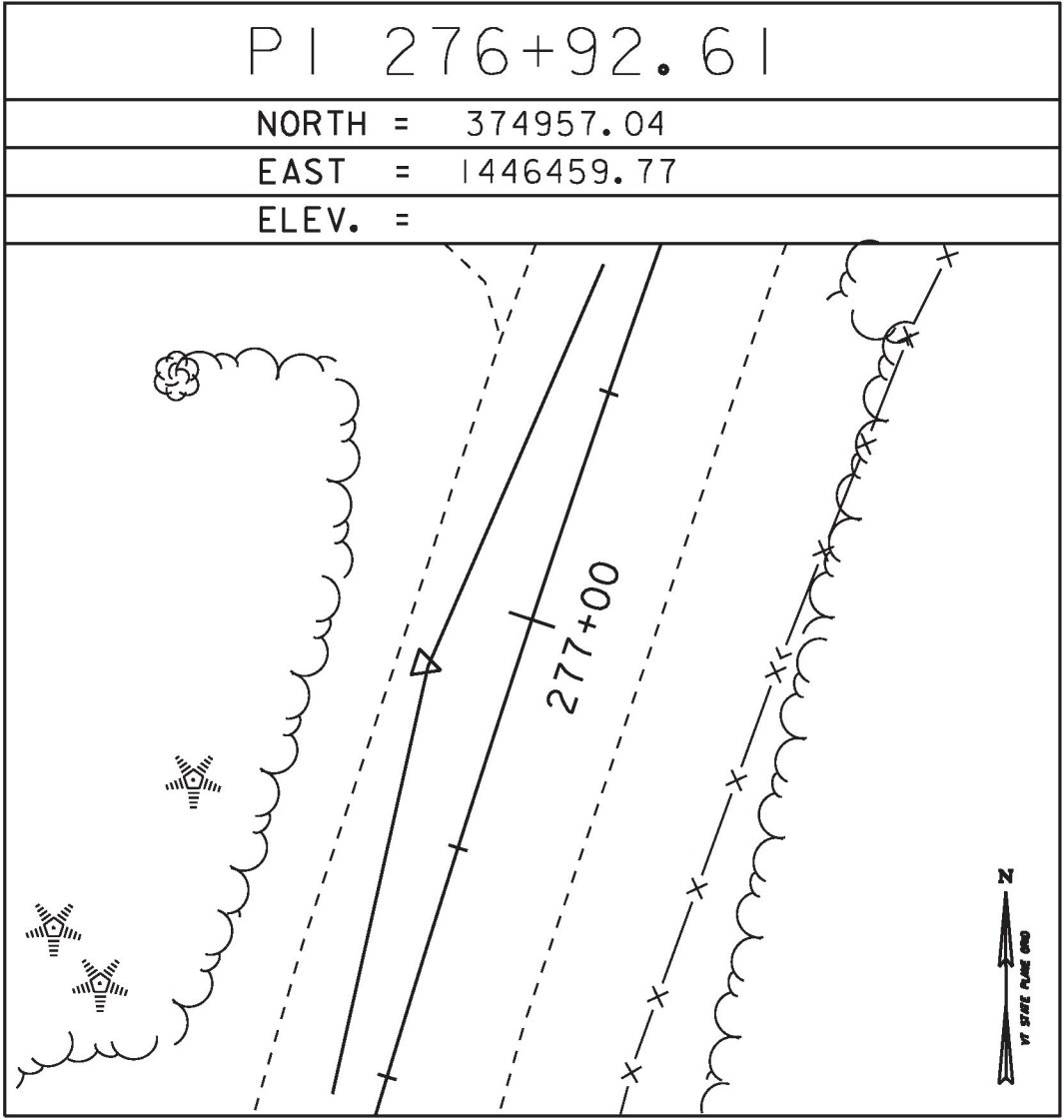
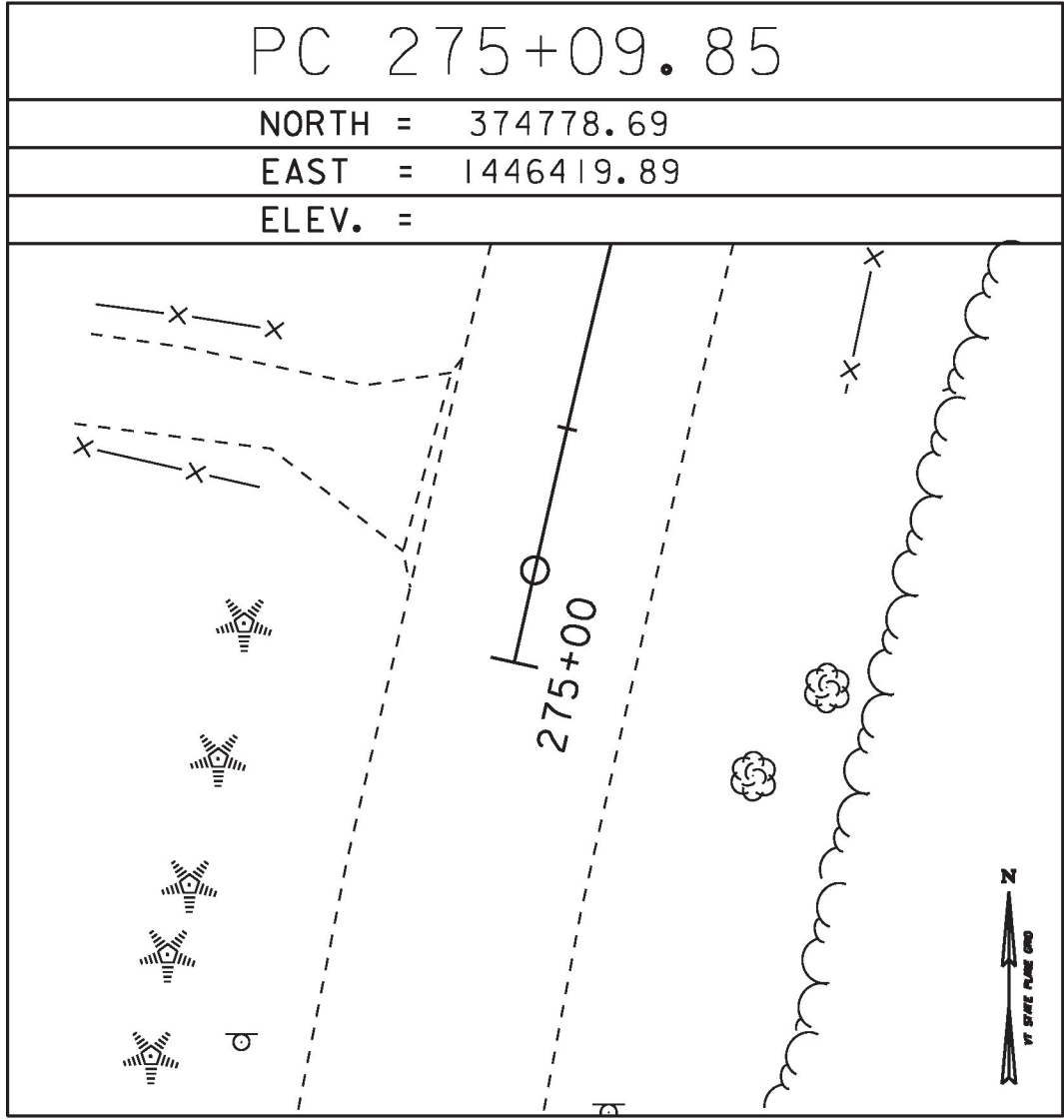
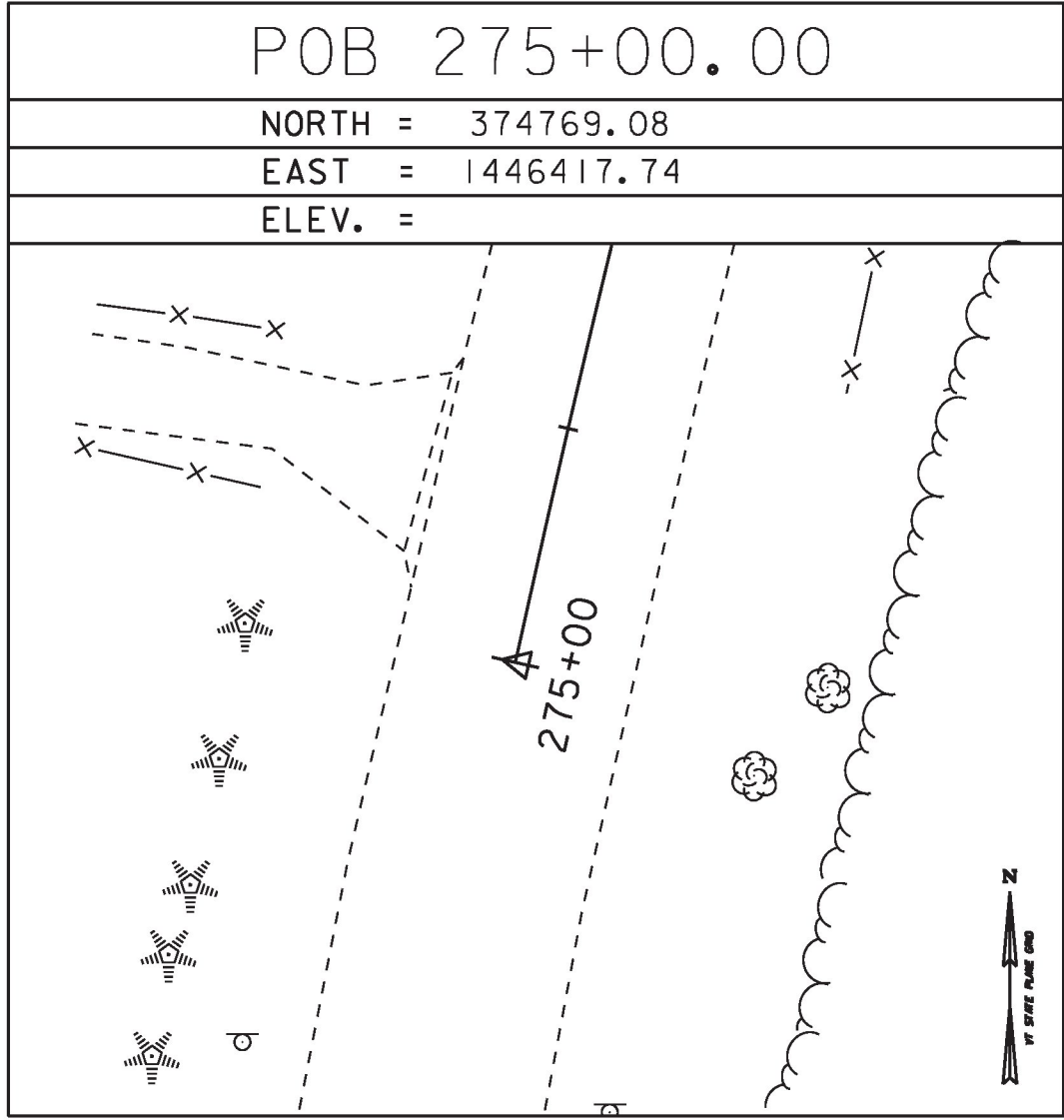
TRAVERSE TIES



*MAIN TRAVERSE COMPLETED 9/22/1997 BY L. ORVIS P.C. & R. BULLOCK [84B814]



ALIGNMENT TIES



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (92)
ADJUSTMENT	COMPASS

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	XII048T1.DGN
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	VTRANS
TIE SHEET	1
PLOT DATE:	23-AUG-2018
DRAWN BY:	R. BULLOCK
CHECKED BY:	P. BEYOR
SHEET	6
OF	48



ALIGNMENT TIES	<table><tr><td colspan="2">PI 284+04.38</td></tr><tr><td>NORTH = 375610.36</td></tr><tr><td>EAST = 1446745.06</td></tr><tr><td>ELEV. =</td></tr></table>	PI 284+04.38		NORTH = 375610.36	EAST = 1446745.06	ELEV. =	<table><tr><td colspan="2">PT 284+43.78</td></tr><tr><td>NORTH = 375647.44</td></tr><tr><td>EAST = 1446758.83</td></tr><tr><td>ELEV. =</td></tr></table>	PT 284+43.78		NORTH = 375647.44	EAST = 1446758.83	ELEV. =	<table><tr><td colspan="2">POE 285+05.73</td></tr><tr><td>NORTH = 375705.39</td></tr><tr><td>EAST = 1446780.34</td></tr><tr><td>ELEV. =</td></tr></table>	POE 285+05.73		NORTH = 375705.39	EAST = 1446780.34	ELEV. =	<table><tr><td colspan="2"></td></tr><tr><td>NORTH =</td></tr><tr><td>EAST =</td></tr><tr><td>ELEV. =</td></tr></table>			NORTH =	EAST =	ELEV. =	<table><tr><td colspan="2"></td></tr><tr><td>NORTH =</td></tr><tr><td>EAST =</td></tr><tr><td>ELEV. =</td></tr></table>			NORTH =	EAST =	ELEV. =
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DATUM

VERTICAL    NAVD 88

HORIZONTAL    NAD 83 (92)

ADJUSTMENT    COMPASS

PROJECT NAME:    POULTNEY	
PROJECT NUMBER:    STP 015-2(9)	
FILE NAME: dlib048frm	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY:    S. ZWICK
DESIGNED BY:    S. ZWICK	CHECKED BY: C. LEACH
TIE SHEET 2	SHEET    7    OF    48



SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

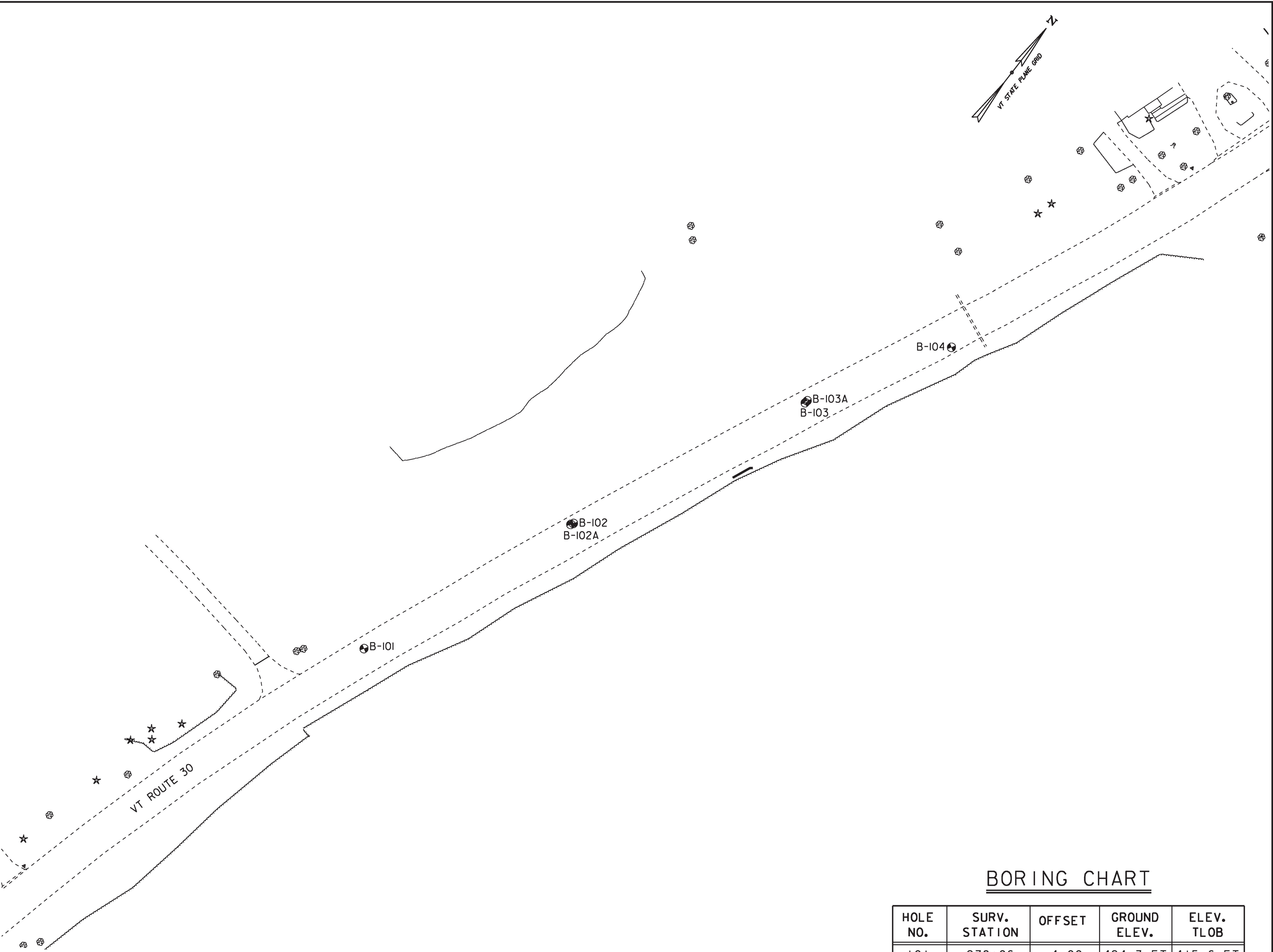
CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊗	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 7/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt.Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
ROD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR			
blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



BORING CHART

HOLE NO.	SURV. STATION	OFFSET	GROUND ELEV.	ELEV. TLOB
101	278+06	-4.00	424.3 FT	415.6 FT
102	279+75	-7.00	421.6 FT	409.6 FT
102A	279+73	-7.50	421.6 FT	413.6 FT
103	281+55	-4.20	419.0 FT	408.5 FT
103A	281+57.2	-4.70	419.0 FT	410.0 FT
104	282+63	8.50	417.9 FT	401.9 FT

PROJECT NAME: POULTNEY  
PROJECT NUMBER: STP 015-2(9)

FILE NAME: dlib048bor  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: S. ZWICK  
BORING INFORMATION SHEET

PLOT DATE: 23-AUG-2018  
DRAWN BY: S. ZWICK  
CHECKED BY: C. LEACH  
SHEET 8 OF 48

GENERAL NOTES

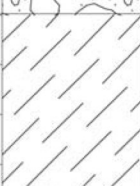
- The subsurface explorations shown herein were made between April 17, 2012 and August 27, 2012 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

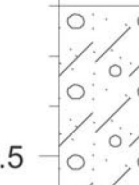
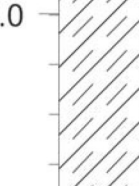
DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.  
BOULDER - A rock fragment with an average dimension > 12 inches.  
COBBLE - Rock fragments with an average dimension between 3 and 12 inches.  
GRAVEL - Rounded particles of rock < 3" and > 0.075" (#10 sieve).  
SAND - Particles of rock < 0.075" (#10 sieve) and > 0.0025" (#200 sieve).  
SILT - Soil < 0.0025" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.  
CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.  
HARDPAN - Extremely dense soil, cemented layer, not softened when wet.  
MUCK - Soft organic soil (containing > 10% organic material).  
MOISTURE CONTENT - Weight of water divided by dry weight of soil.  
FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.  
STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.  
DIP - Inclination of bed with a horizontal plane.



	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG		Boring No.: <b>B-101</b>								
		POULTNEY STP 015-2(9) VT-30 SLIDE		Page No.: 1 of 1 Pin No.: 11B048 Checked By: NSM								
Boring Crew: SALISBURY, GARROW		Casing		Sampler		Groundwater Observations						
Date Started: 4/17/12    Date Finished: 4/18/12		Type: H.S.A.		SS		Date		Depth (ft)		Notes		
VTSPG NAD83: N 375063.43 ft    E 1446502.83 ft		I.D.: 3 in		1.5 in								
Station: 278+06    Offset: -4.00		Hammer Wt: N.A.		140 lb.								
Ground Elevation: 424.3 ft		Hammer Fall: N.A.		30 in.								
		Hammer/Rod Type: Auto/AWJ										
		Rig: CME 45C TRACK		C _e = 1.34								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)				Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.8 ft										
2.5		A-1-b, SaGr, brn, Dry, Rec. = 0.4 ft				10-10-8-5 (18)	4.7	47.7	34.5	17.8		
		Visual Description:., SaGr, brn, Dry, Rec. = 0.2 ft				4-4-4-4 (8)						
5.0		A-4, SaSi, gry, Moist, Rec. = 1.6 ft, Material was Weathered.				6-7-10-12 (17)	18.0	12.8	21.1	66.1	28	4
7.5		Visual Description:., Severely Weather Rock with some clay, gry, Moist, Rec. = 1.4 ft				7-11-11-R@1.0*	13.0					
		Hole stopped @ 8.7 ft TLOB - CNPF										
10.0												
12.5												
15.0												
17.5												
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.												

	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG		Boring No.: <b>B-102</b>								
		POULTNEY STP 015-2(9) VT-30 SLIDE		Page No.: 1 of 1 Pin No.: 11B048 Checked By: NSM								
Boring Crew: SALISBURY, GARROW		Casing		Sampler		Groundwater Observations						
Date Started: 4/17/12    Date Finished: 4/18/12		Type: H.S.A.		SS		Date		Depth (ft)		Notes		
VTSPG NAD83: N 375220.50 ft    E 1446564.10 ft		I.D.: 3 in		1.5 in								
Station: 279+75    Offset: -7.00		Hammer Wt: N.A.		140 lb.								
Ground Elevation: 421.6 ft		Hammer Fall: N.A.		30 in.								
		Hammer/Rod Type: Auto/AWJ										
		Rig: CME 45C TRACK		C _e = 1.34								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)				Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.8 ft										
2.5		A-2-4, SiSaGr, brn, Moist, Rec. = 0.7 ft, Material was Weathered.				7-8-5-4 (13)	9.6	36.1	36.0	27.9		
		A-5, ClSi, brn, Moist, Rec. = 1.3 ft, Material was Weathered.				4-3-4-5 (7)	29.7	17.2	24.4	58.4	42	8
5.0		Visual Description:., ClSi, brn, Moist, Rec. = 1.2 ft, Similar material as 3'-5'. Material was Weathered.				2-4-4-4 (8)	22.5	26.4	23.1	50.5		
7.5		A-7-6, Cl, brn, Moist, Rec. = 1.0 ft				3-3-6-8 (9)	33.0	2.0	6.7	91.3	51	26
		Visual Description:., Cl, gry, Moist, Rec. = 1.0 ft, Similar material as 7'-8'. Material was Weathered.					26.9	7.0	3.7	89.3		
10.0		A-4, SaGrSi, brn-gry, Moist, Rec. = 1.4 ft, Material was Weathered.				4-4-4-3 (8)	16.4	29.1	26.2	44.7	28	4
		Hole stopped @ 12.0 ft TLOB - CNPF										
12.5												
15.0												
17.5												
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.												



		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-102A</b>				
				POULTNEY STP 015-2(9) VT-30 SLIDE		Page No.: 1 of 1				
						Pin No.: 11B048				
						Checked By: MLM				
Boring Crew: SALISBURY, GARROW, MEYERS		Casing		Sampler		Groundwater Observations				
Date Started: 8/27/12 Date Finished: 8/27/12		Type: H.S.A.		TUBE		Date				
VTSPG NAD83: N 375218.82 ft E 1446562.97 ft		I.D.: 3.25 in		3 in		Depth (ft)				
Station: 279+73 Offset: -7.50		Hammer Wt: N.A.		N.A.		Notes				
Ground Elevation: 421.6 ft		Hammer Fall: N.A.		N.A.		Same day drilling.				
		Hammer/Rod Type:								
		Rig: CME 45C TRACK		C _e = 1.34						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note:, Asphalt Pavement								
2.5		Field Note:, Si Shelby Tube, brn, Moist, Rec. = 1.7 ft								
5.0		Field Note:, Si Shelby Tube, brn, Moist, Rec. = 1.7 ft								
7.5		A-7-5, Cl, brn, Moist, Rec. = 1.3 ft, Shelby Tube sample U3		21.9					45	24
Hole stopped @ 8.0 ft TLOB - CNPF										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.										

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-103</b>				
				POULTNEY STP 015-2(9) VT-30 SLIDE		Page No.: 1 of 1				
						Pin No.: 11B048				
						Checked By: NSM				
Boring Crew: SALISBURY, GARROW		Casing		Sampler		Groundwater Observations				
Date Started: 4/17/12 Date Finished: 4/17/12		Type: H.S.A.		SS		Date				
VTSPG NAD83: N 375384.53 ft E 1446639.37 ft		I.D.: 3 in		1.5 in		Depth (ft)				
Station: 281+55 Offset: -4.20		Hammer Wt: N.A.		140 lb.		Notes				
Ground Elevation: 419.0 ft		Hammer Fall: N.A.		30 in.		No water to depth.				
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 45C TRACK		C _e = 1.34						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.6 ft								
2.5		Visual Description:, Gravely sand, brn, Moist, Rec. = 1.0 ft, Asphalt mixed with the sample.		4-7-7-5 (14)						
5.0		Visual Description:, ClSi, brn, Moist, Rec. = 1.2 ft, Similar material as B-102 3'-5'. Material was Weathered.		6-5-5-5 (10)	21.8	20.3	18.8	60.9		
7.5		A-7-6, Cl, brn, Moist, Rec. = 1.5 ft		2-3-5-6 (8)	33.4		4.7	95.3	54	28
10.0		Visual Description:, ClSi, brn, Moist, Rec. = 1.5 ft, Material had less clay and more silt then the 5'-7' sample. Material was Weathered.		2-4-5-7 (9)	25.5	8.4	9.1	82.5		
		Visual Description:, Broken Rock with sandy silt, brn, Moist, Rec. = 1.0 ft		6-20-R@6.0"	8.4					
Hole stopped @ 10.5 ft TLOB - CNPF										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.										



		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-103A</b>				
				POULTNEY STP 015-2(9) VT-30 SLIDE		Page No.: 1 of 1 Pin No.: 11B048 Checked By: MLM				
Boring Crew: SALISBURY, GARROW, MEYERS		Casing		Sampler		Groundwater Observations				
Date Started: 8/27/12 Date Finished: 8/27/12		Type: H.S.A.		TUBE		Date Depth (ft) Notes				
VTSPG NAD83: N 375386.53 ft E 1446639.68 ft		I.D.: 3.25 in 3 in								
Station: 281+57.2 Offset: -4.70		Hammer Wt: N.A. N.A.				Same day drilling.				
Ground Elevation: 419.0 ft		Hammer Fall: N.A. N.A.								
		Hammer/Rod Type:								
		Rig: CME 45C TRACK		C _e = 1.34						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note:, Asphalt Pavement								
2.5		Field Note:, SiSa Shelby Tube, brn, Moist, Rec. = 1.2 ft								
5.0		A-7-6, Cl, brn, Moist, Rec. = 2.0 ft, Shelby Tube sample U2		35.8					66	41
7.5		Field Note:, GrCl Shelby Tube, brn, Moist, Rec. = 1.5 ft								
10.0		Hole stopped @ 9.0 ft								
12.5										
15.0										
17.5										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.										

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-104</b>				
				POULTNEY STP 015-2(9) VT-30 SLIDE		Page No.: 1 of 1 Pin No.: 11B048 Checked By: NSM				
Boring Crew: SALISBURY, GARROW		Casing		Sampler		Groundwater Observations				
Date Started: 4/17/12 Date Finished: 4/17/12		Type: H.S.A.		SS		Date Depth (ft) Notes				
VTSPG NAD83: N 375476.80 ft E 1446695.72 ft		I.D.: 3 in 1.5 in				04/17/12 12.1 While Drilling.				
Station: 282+63 Offset: 8.50		Hammer Wt: N.A. 140 lb.								
Ground Elevation: 417.9 ft		Hammer Fall: N.A. 30 in.								
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 45C TRACK		C _e = 1.34						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.8 ft								
2.5		A-1-b, SiSaGr, brn, Dry, Rec. = 0.7 ft		8-10-6-5 (16)	6.1	44.3	33.9	21.8		
		A-2-4, GrSiSa, gry, Moist, Rec. = 1.2 ft		5-8-6-3 (14)	11.3	31.5	35.9	32.6		
5.0		Visual Description:., SiCl, gry, Moist, Rec. = 1.4 ft, Similar material as 7'-9'.		2-3-5-6 (8)	25.8	3.4	14.9	81.7		
7.5		A-6, SiCl, gry, Moist, Rec. = 1.5 ft		3-2-4-7 (6)	28.4	1.3	15.2	83.5	33	11
10.0		A-2-4, SaSiGr, brn, Moist, Rec. = 1.1 ft		4-8-8-10 (16)	10.3	36.6	30.9	32.5		
15.0		Visual Description:., Mostly Weathered Rock with silt, brn, Moist, Rec. = 1.0 ft		5-25-R@0.0"	17.6					
17.5		Hole stopped @ 16.0 ft TLOB - CNPF								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.										



**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES					
										ROADWAY	EROSION CONTROL	FULL CE	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										1			1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-			
										3900			3900		CY	COMMON EXCAVATION	203.15	9			TRENCH EXCAVATION OF EARTH
										75			75		CY	SOLID ROCK EXCAVATION	203.16	EST.	72	CY	PROPOSED AND EXISTING PIPES
										570			570		CY	SAND BORROW	203.31	15	211	CY	UNDERDRAIN
										290			290		CY	TRENCH EXCAVATION OF EARTH	204.20	8	7	CY	ROUNDING
										55			55		CY	TRENCH EXCAVATION OF ROCK	204.21	11	290	CY	TOTAL
										1			1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-			TRENCH EXCAVATION OF ROCK
										40			40		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	3	5	CY	PROPOSED AND EXISTING PIPES
										300			300		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	23	44	CY	UNDERDRAIN
										100			100		CY	SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	301.25	EST.	6	CY	ROUNDING
										1200			1200		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	22	55	CY	TOTAL
										80			80		TON	AGGREGATE SHOULDERS	402.12	5			
										3			3		CWT	EMULSIFIED ASPHALT	404.65	0.25			
										1			1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-			
										48			48		LF	18" CPEP	601.0915	-			
										1			1		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)	604.20	-			
										545			545		LF	8 INCH UNDERDRAIN PIPE	605.11	-			
										10			10		LF	8 INCH UNDERDRAIN CARRIER PIPE	605.21	-			
										2			2		EACH	UNDERDRAIN FLUSHING BASIN	605.95	-			
										968	2		970		CY	STONE FILL, TYPE II	613.11	5			
										4			4		EACH	YIELDING MARKER POSTS	619.17	-			
										2			2		EACH	REMOVING AND RESETTING PROPERTY MARKERS	619.20	-			
										415			415		LF	REMOVAL OF EXISTING FENCE	620.55	5			
										550			550		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	12			
										2			2		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
										75			75		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
										600			600		HR	FLAGGERS	630.15	EST.			
												1	1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
												1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
												3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	EST.			
										1			1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
										2			2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
																<del>BEGIN OPTION AA</del>					
										1750			1750		LF	<del>DURABLE 4 INCH WHITE LINE, THERMOPLASTIC</del> 4 INCH WHITE LINE	646.20	<del>646.402</del>			C&D
										<del>1750</del>			<del>1750</del>		LF	<del>DURABLE 4 INCH WHITE LINE, EPOXY PAINT</del>	<del>646.403</del>	-			
										<del>1750</del>			<del>1750</del>		LF	<del>DURABLE 4 INCH WHITE LINE, POLYUREA</del>	<del>646.404</del>	-			
																<del>END OPTION AA</del>					
										1			1		EACH	REMOVING MEDIUM TREES	201.15	COD			
										5			5		EACH	REMOVING LARGE STUMPS	201.21	COD			

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: dl1b048frm	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
QUANTITY SHEET 1	SHEET 12 OF 48



## QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES					
										ROADWAY	EROSION CONTROL	FULL CE	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
																<del>BEGIN OPTION BB-</del>					
										1750			1750		LF	<del>DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC</del> 4 INCH YELLOW LINE 646.21	<del>646.412</del>	CSD			
										<del>1750</del>			<del>1750</del>		LF	<del>DURABLE 4 INCH YELLOW LINE, EPOXY PAINT</del>	<del>646.413</del>	-			
										<del>1750</del>			<del>1750</del>		LF	<del>DURABLE 4 INCH YELLOW LINE, POLYUREA</del>	<del>646.414</del>	-			
																<del>END OPTION BB-</del>					
										1750			1750		LF	TEMPORARY 4 INCH WHITE LINE	646.600	-			
										1750			1750		LF	TEMPORARY 4 INCH YELLOW LINE	646.610	-			
										300			300		EACH	LINE STRIPING TARGETS	646.76	-			
										2000			2000		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	5			
										1935			1935		SY	GEOTEXTILE UNDER STONE FILL	649.31	2			
											210		210		SY	GEOTEXTILE FOR SILT FENCE	649.51	2			
											170		170		SY	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	649.515	2			
											140		140		LB	SEED	651.15	1			
											1180		1180		LB	FERTILIZER	651.18	6			
											4		4		TON	AGRICULTURAL LIMESTONE	651.20	0.7			
											4		4		TON	HAY MULCH	651.25	0.6			
											1175		1175		SY	GRUBBING MATERIAL (6")	651.40	5			
											1		1		LS	EPSC PLAN	652.10	-			
											10		10		HR	MONITORING EPSC PLAN	652.20	-			
											1		1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-			
											1500		1500		SY	TEMPORARY EROSION MATTING	653.20	95			
											117		117		CY	TEMPORARY STONE CHECK DAM, TYPE I	653.25	2			
											76		76		CY	VEHICLE TRACKING PAD	653.35	-			
											1		1		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-			
											360		360		LF	BARRIER FENCE	653.50	4			
											1440		1440		LF	PROJECT DEMARCATION FENCE	653.55	3			
											500		500		LF	EROSION LOG	653.60	-			
										34			34		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-			
										1			1		EACH	REMOVING SIGNS	675.50	-			
										1			1		EACH	ERECTING SALVAGED SIGNS	675.60	-			
										2			2		EACH	DELINEATOR WITH STEEL POST	676.10	-			
										1			1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
										460			460		CY	SPECIAL PROVISION (GRANULAR BORROW)	900.608	9			
										1			1		EACH	SPECIAL PROVISION (TEMPORARY TRAFFIC SIGNAL SYSTEM, PORTABLE)	900.620	-			
										1			1		LS	SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)	900.645	-			
										1			1		LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	900.650	-			
										1			1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT)(N.A.B.I.)	900.650	-			
										345			345		SY	SPECIAL PROVISION (REINFORCED SOIL SLOPE)	900.675	3			
										675			675		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	14			

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: dlib048frm	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
QUANTITY SHEET 2	SHEET 13 OF 48



## ITEM DETAIL AND DRAINAGE SHEET

[illegible]

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d1lb048.frm	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
ITEM DETAIL AND DRAINAGE SHEET	SHEET 14 OF 48



# EARTHWORKS

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048f.rvt	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EARTHWORKS SHEET	SHEET 15 OF 48

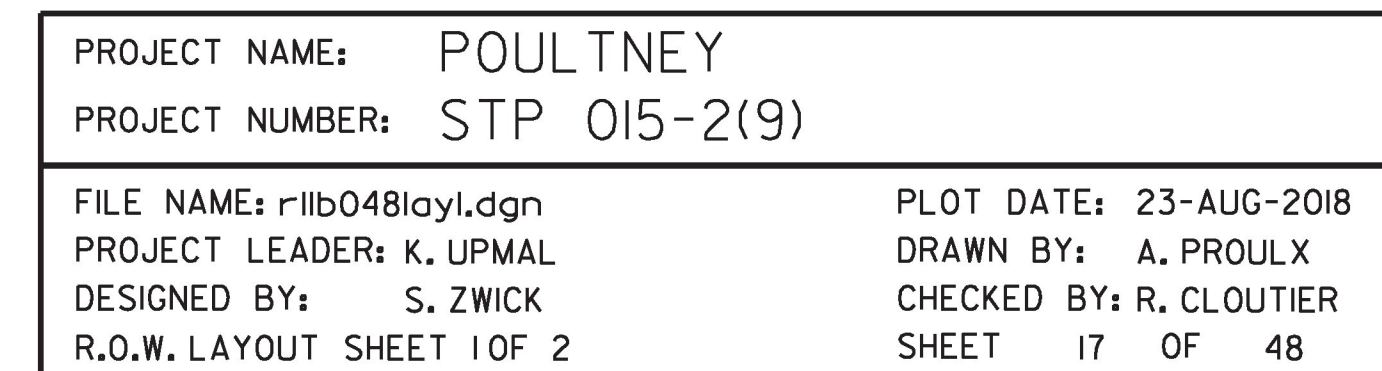


# RIGHT - OF - WAY DETAIL SHEET

[illegible][illegible]

PROJECT NAME: <b>POULTNEY</b>	
PROJECT NUMBER: <b>STP 015-2(9)</b>	
FILE NAME: <b>r11b048detail.xls</b>	PLOT DATE: <b>23-AUG-2018</b>
PROJECT LEADER: <b>K. UPMAL</b>	DRAWN BY: <b>M. TROTIER</b>
DESIGNED BY: <b>A. PROULX</b>	CHECKED BY: <b>R. CLOUTIER</b>
<b>R.O.W. DETAIL SHEET #1</b>	<b>SHEET 16 OF 48</b>







STEEL BEAM GUARDRAIL, GALVANIZED  
STA 280+25 - 283+25 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 283+12 LT

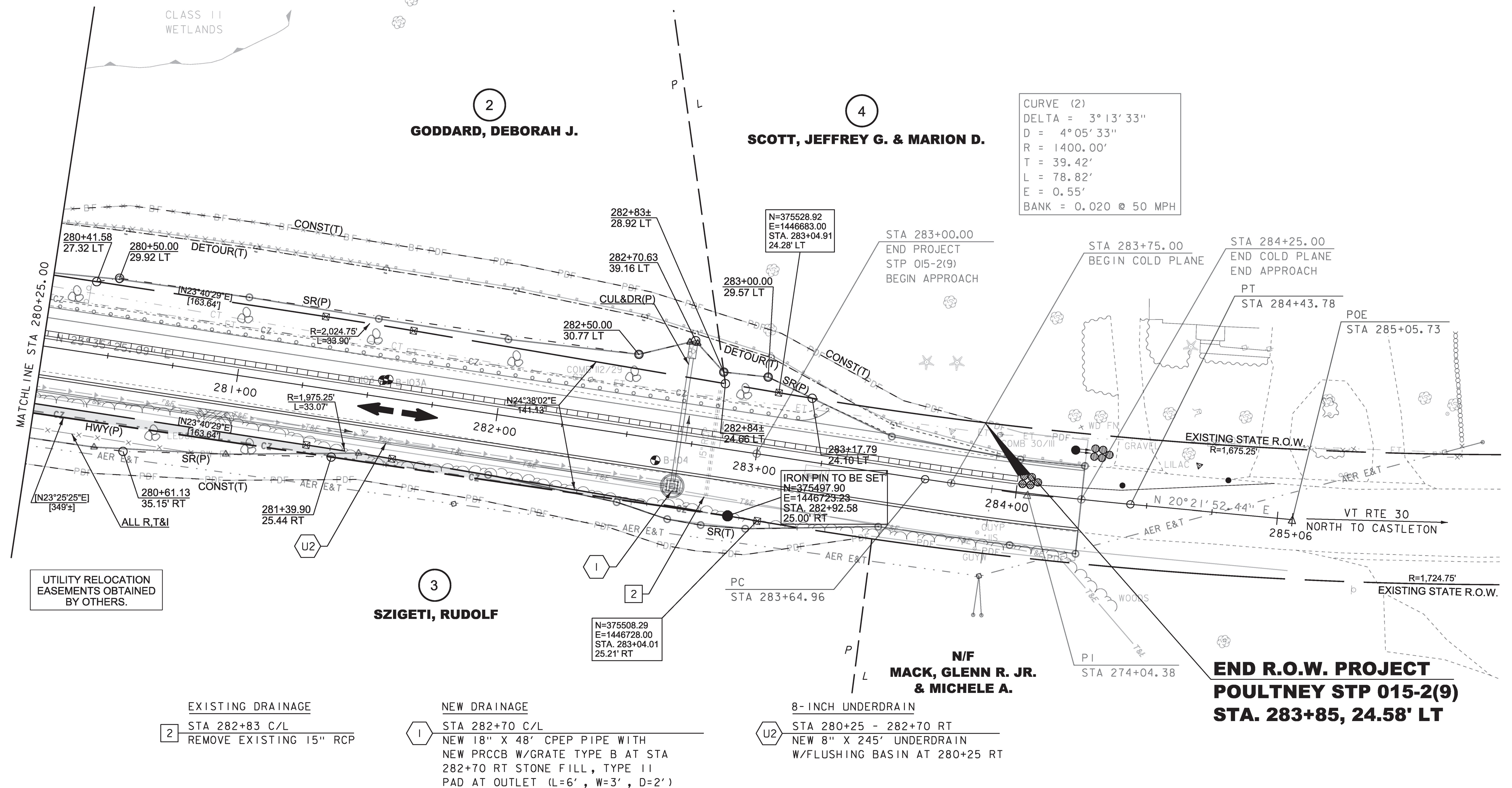
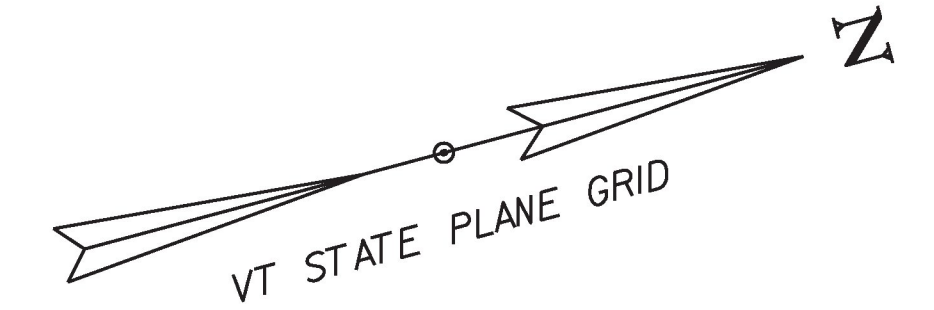
AGGREGATE SHOULDER  
STA 280+25 LT - STA 284+25 LT  
STA 280+25 RT - STA 282+72 RT

YIELDING MARKER POST  
STA 282+70 RT

REMOVAL OF EXISTING FENCE  
STA 280+25 - 280+87 RT

STONE FILL, TYPE II  
STA 280+25 LT - STA 283+25 LT  
STA 280+25 RT - STA 282+73 RT

SPECIAL PROVISION (REINFORCED SOIL SLOPE)  
STA 280+25 - 283+13 LT



LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

**FOR R.O.W.  
USE ONLY**

PROJECT NAME: POULTNEY  
PROJECT NUMBER: STP 015-2(9)

FILE NAME: rlib048lay2.dgn  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: S. ZWICK  
R.O.W. LAYOUT SHEET 2 OF 2

PLOT DATE: 23-AUG-2018  
DRAWN BY: A. PROULX  
CHECKED BY: R. CLOUTIER  
SHEET 18 OF 48



STEEL BEAM GUARDRAIL, GALVANIZED  
STA 277+87.5 - 280+25 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 278+00 LT

AGGREGATE SHOULDER  
STA 277+00 LT - STA 280+25 LT  
STA 277+00 RT - STA 280+25 RT

YIELDING MARKER POST  
STA 277+25 RT  
STA 280+25 RT

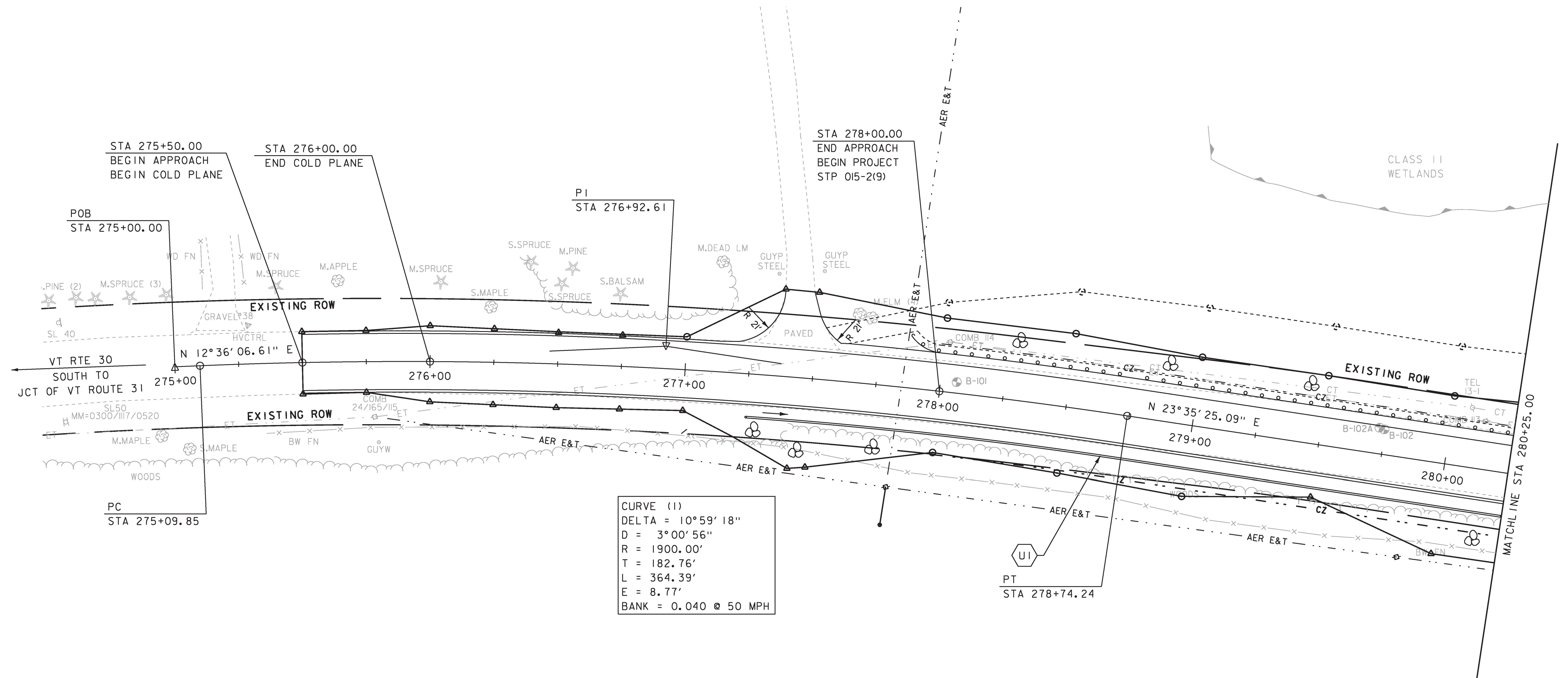
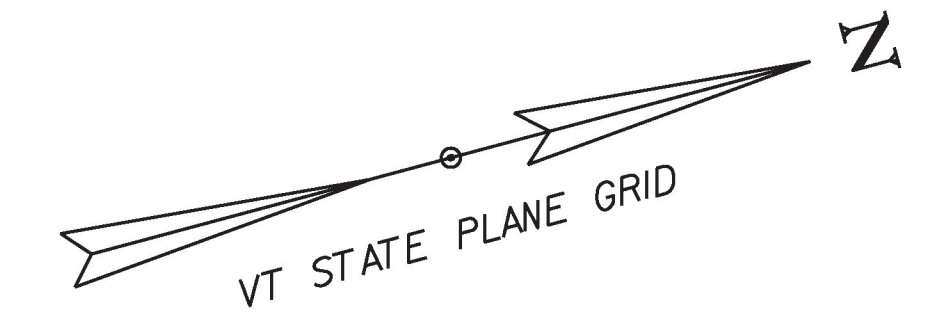
REMOVAL OF EXISTING FENCE  
STA 276+75 - 280+25 RT

STONE FILL, TYPE II  
STA 277+00 RT - STA 278+00 RT  
STA 278+00 LT - STA 280+25 LT  
STA 279+50 RT - STA 280+25 RT

CONSTRUCT PAVED DRIVE  
STA 277+43 LT, 12'W & 22'L

SPECIAL PROVISION (REINFORCED SOIL SLOPE)  
STA 278+00 - 280+25 LT

REMOVING MEDIUM TREES  
STA 277+65 LT



8-INCH UNDERDRAIN  
STA 277+25 - 280+25 RT  
NEW 8" X 300' UNDERDRAIN  
W/FLUSHING BASIN AT 277+25 RT



PROJECT NAME:	POULTNEY	PLOT DATE:	23-AUG-2018
PROJECT NUMBER:	STP 015-2(9)	DRAWN BY:	S. ZWICK
FILE NAME:	d11b048bdr	CHECKED BY:	C. LEACH
PROJECT LEADER:	K. UPMAL	SHEET	19 OF 48
DESIGNED BY:	S. ZWICK	LAYOUT PLAN SHEET	1



STEEL BEAM GUARDRAIL, GALVANIZED  
STA 280+25 - 283+25 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 283+12 LT

AGGREGATE SHOULDER  
STA 280+25 LT - STA 284+25 LT  
STA 280+25 RT - STA 282+72 RT

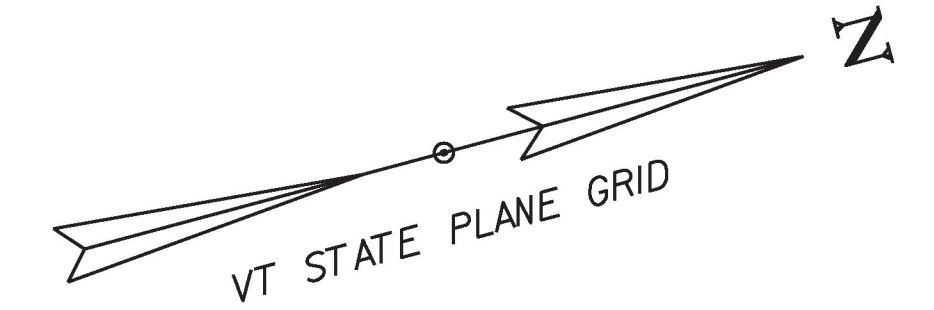
YIELDING MARKER POST  
STA 282+70 RT

REMOVAL OF EXISTING FENCE  
STA 280+25 - 280+87 RT

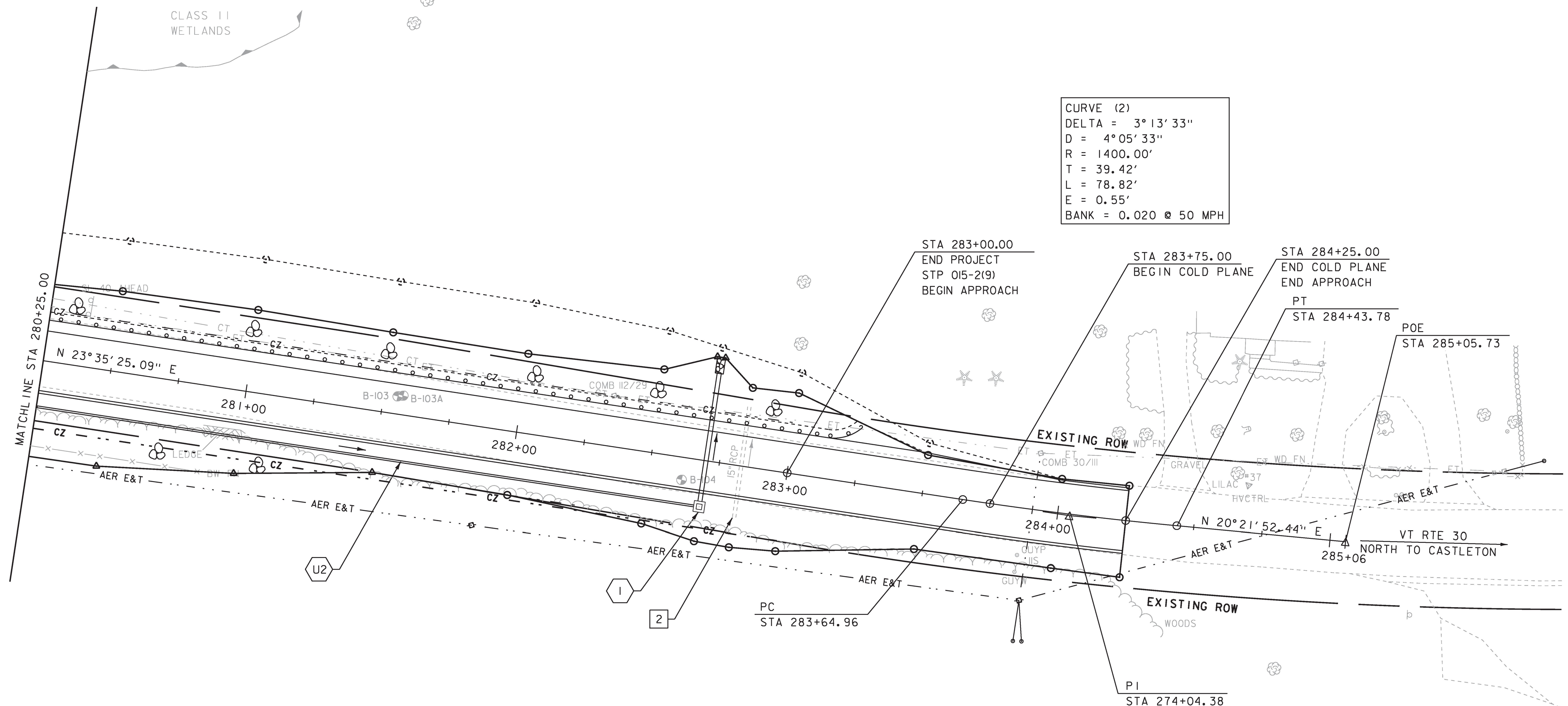
STONE FILL, TYPE II  
STA 280+25 LT - STA 283+25 LT  
STA 280+25 RT - STA 282+73 RT

SPECIAL PROVISION (REINFORCED SOIL SLOPE)  
STA 280+25 - 283+13 LT

REMOVING LARGE STUMPS  
STA 281+50 RT - STA 282+50 RT



CURVE (2)  
DELTA = 3°13'33"  
D = 4°05'33"  
R = 1400.00'  
T = 39.42'  
L = 78.82'  
E = 0.55'  
BANK = 0.020 @ 50 MPH



EXISTING DRAINAGE  
2 STA 282+83 C/L  
REMOVE EXISTING 15" RCP

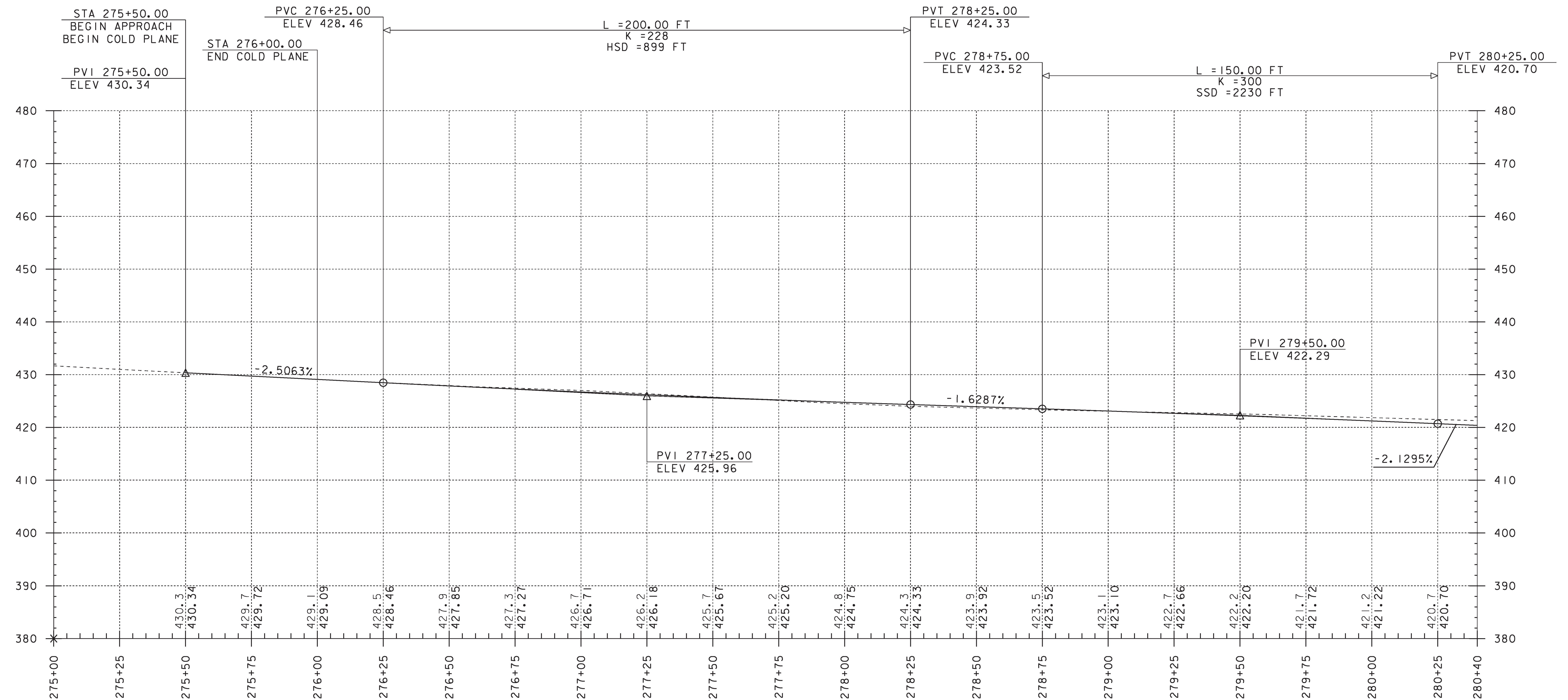
NEW DRAINAGE  
1 STA 282+70 C/L  
NEW 18" X 48' CPEP PIPE WITH  
NEW PRCCB W/GRATE TYPE B AT STA  
282+70 RT STONE FILL, TYPE II  
PAD AT OUTLET (L=6', W=3', D=2')

8-INCH UNDERDRAIN  
U2 STA 280+25 - 282+70 RT  
NEW 8" X 245' UNDERDRAIN  
W/FLUSHING BASIN AT 280+25 RT

0 20 40  
SCALE IN FEET

PROJECT NAME:	POULTNEY	PLOT DATE:	23-AUG-2018
PROJECT NUMBER:	STP 015-2(9)	DRAWN BY:	S. ZWICK
FILE NAME:	dlib048bdr	CHECKED BY:	C. LEACH
PROJECT LEADER:	K. UPMAL	SHEET	20 OF 48
DESIGNED BY:	S. ZWICK		
LAYOUT PLAN SHEET 2			





## VT ROUTE 30 PROFILE

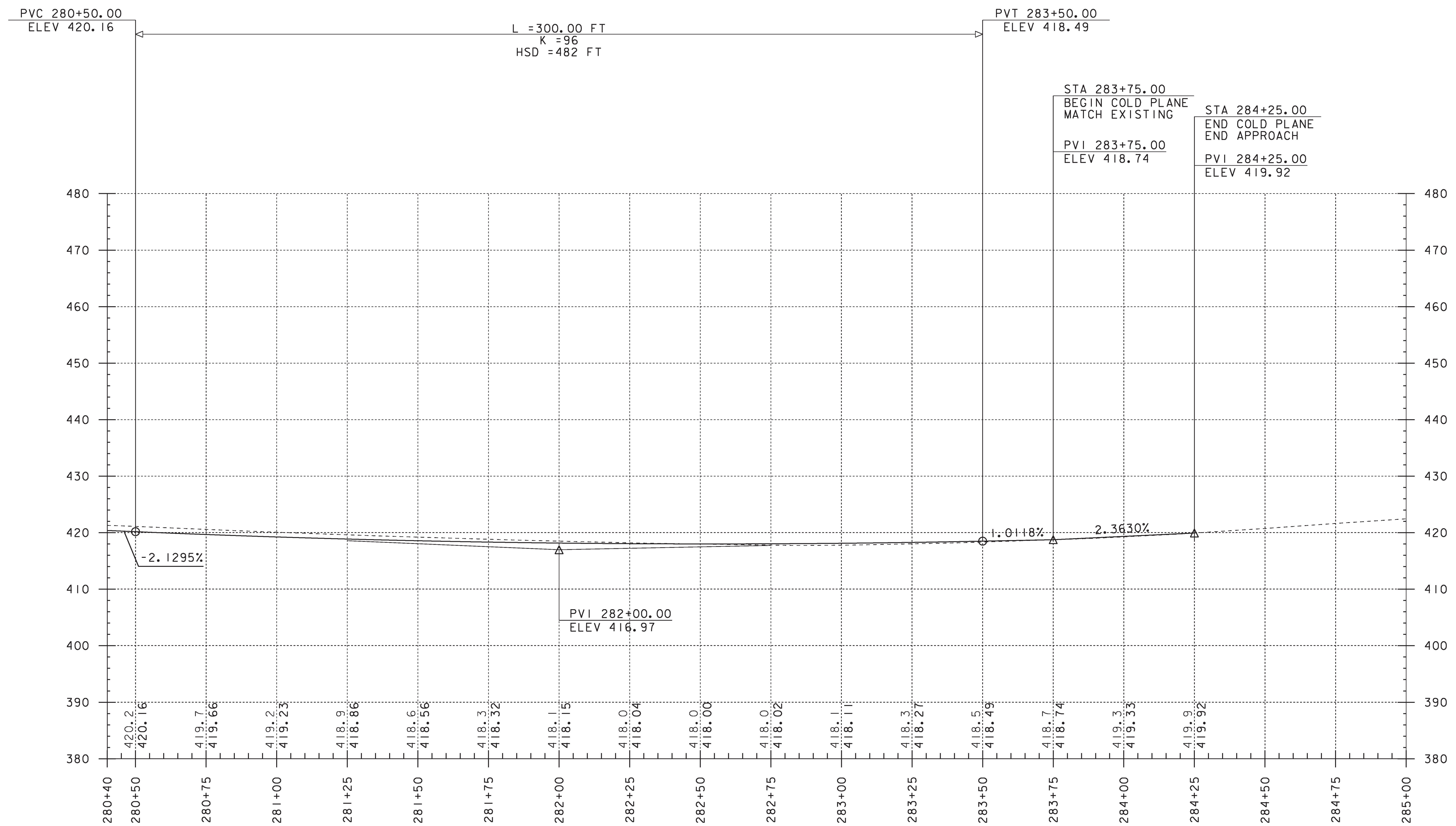
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISHED GRADES FOR THE PROPOSED ALIGNMENT. ALL STATIONS AND ELEVATIONS ARE IN FEET

PROJECT NAME: POULTNEY  
PROJECT NUMBER: STP 015-2(9)

FILE NAME: d1b048wrk  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: S. ZWICK  
PROFILE SHEET 1

PLOT DATE: 23-AUG-2018  
DRAWN BY: S. ZWICK  
CHECKED BY:  
SHEET 21 OF 48





## VT ROUTE 30 PROFILE

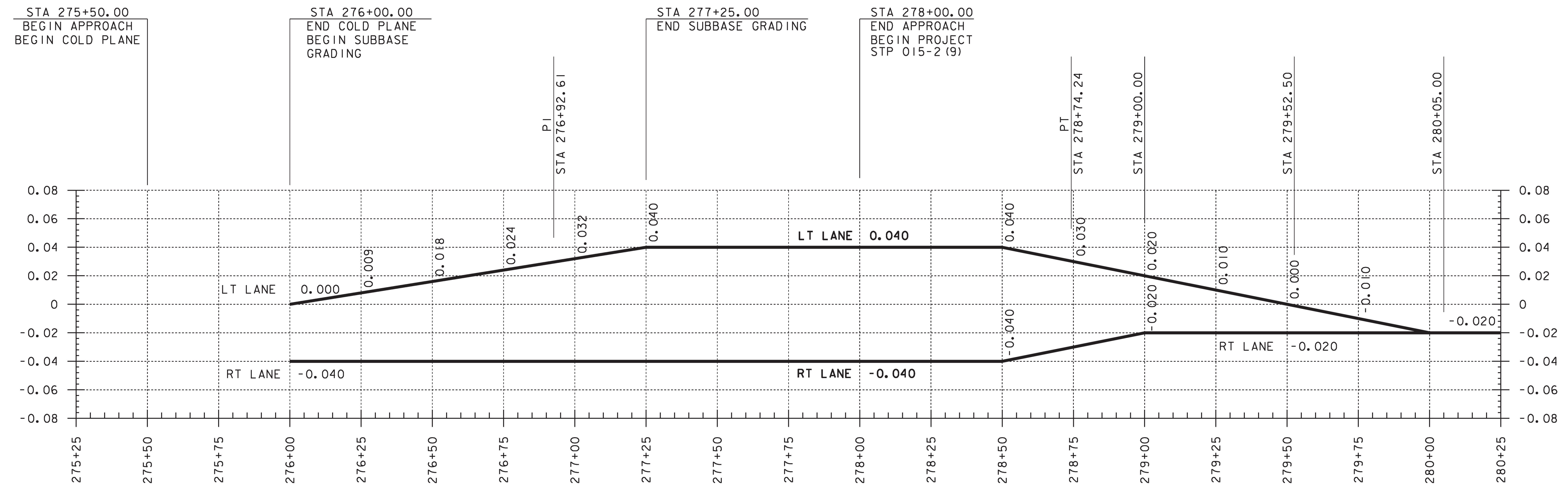
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISHED GRADES FOR THE PROPOSED ALIGNMENT. ALL STATIONS AND ELEVATIONS ARE IN FEET

PROJECT NAME: POULTNEY  
PROJECT NUMBER: STP 015-2(9)

FILE NAME: dlb048wrk  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: S. ZWICK  
PROFILE SHEET 2

PLOT DATE: 23-AUG-2018  
DRAWN BY: S. ZWICK  
CHECKED BY:  
SHEET 22 OF 48



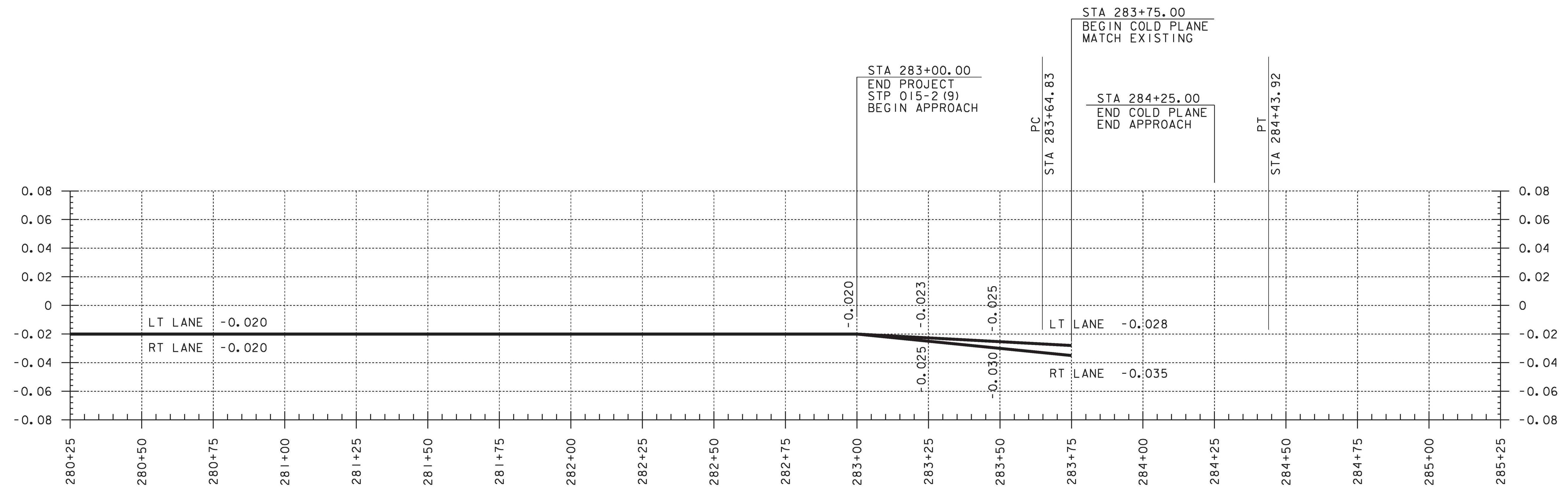


## BANKING DIAGRAM

ALL STATIONS ARE IN FEET  
ALL SUPERELEVATIONS ARE  
IN SLOPE PERCENTILE

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	dlib048bank
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
BANKING DIAGRAM I	
PLOT DATE:	23-AUG-2018
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
SHEET	23 OF 48





## BANKING DIAGRAM

ALL STATIONS ARE IN FEET  
ALL SUPERELEVATIONS ARE  
IN SLOPE PERCENTILE

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: dlib048bank	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
BANKING DIAGRAM 2	SHEET 24 OF 48



EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE ROADWAY RECONSTRUCTION OF A SEGMENT OF VT ROUTE 30 BETWEEN MM 5.265 AND MM 5.359 WITH SLOPE STABILIZATION. THE PROJECT IS LOCATED IN THE TOWN OF POULTNEY, ON VT ROUTE 30, THE EXISTING CROSS CULVERT WILL BE REPLACED WITH A LARGER PIPE

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, AS WELL AS WASTE, BORROW AND STAGING AREAS, AND OTHER EARTH DISTURBING ACTIVITIES WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS AS SHOWN ON THE ATTACHED EPSC PLAN.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.369 ACRES. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS THE TOE OF A SLOPE THAT IS MOSTLY WELL-ESTABLISHED FOREST WITH OCCASIONAL OPEN AREAS. VT ROUTE 30, AND A PAVED DRIVEWAY ARE WITHIN THE PROJECT SITE. THERE IS A RESIDENCE TO THE NORTH, SOUTH AND WEST OF THE PROJECT.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THERE IS A CLASS II WETLAND APPROXIMATELY 65 FEET DOWNSLOPE FROM THE PROJECT SITE AND AN EXISTING DRAINAGE DITCH ON THE EAST SIDE OF THE PROJECT. THERE IS AN EXISTING 15 INCH RCP AT MM 5.34 (STA 282+83) THAT CROSSES UNDER THE ROADWAY. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM THE NEARBY SLOPE.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF HARDWOOD TREES AND UNDERGROWTH. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY RECONSTRUCTION OF VT ROUTE 30, SLOPE STABILIZATION AND TRAFFIC CONTROL DETOUR. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WINDSOR, VERMONT. SOILS ON THE PROJECT SITE ARE TACONIC-MACOMBER COMPLEX, 8% TO 25% SLOPES, “K FACTOR” = 0.37 AND KINGSBURY, SILTY CLAY LOAM, 0%-3% SLOPES, “K FACTOR” = 0.49. THE SOIL IS CONSIDERED HIGHLY ERODIBLE DUE TO SIGNIFICANT SLOPES.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:  
0.0-0.23 = LOW EROSION POTENTIAL  
0.24-0.36 = MODERATE EROSION POTENTIAL  
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO  
HISTORICAL OR ARCHEOLOGICAL AREAS: NO  
PRIME AGRICULTURAL LAND: NO  
THREATENED AND ENDANGERED SPECIES: NO  
WATER RESOURCE: NO  
WETLANDS: YES, CLASS II WETLAND APPROXIMATELY 80 FEET WEST OF PROJECT

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UPSLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

STONE CHECK DAMS ARE ANTICIPATED FOR THS PROJECT. STONE CHECK DAMS WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

PERMANENT STORMWATER TREATMENT DEVICES ARE NOT ANTICIPATED FOR THIS PROJECT.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

FIBER ROLLS SHALL BE INSTALLED ON SLOPES AS PROPOSED ON THE EPSC PLAN.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

WINTER STABILATION IS NOT ANTICIPATED FOR THIS PROJECT.

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

DE-WATERING ACTIVITIES ARE ANTICIPATED FOR THIS PROJECT. STONE/BLOCK DROP INLET PROTECTION SHALL BE USED TO PREVENT SEDIMENT BUILD-UP IN THE PROPOSED CATCH BASIN DURING CONSTRUCTION ONCE THE CATCH BASIN IS INSTALLED.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

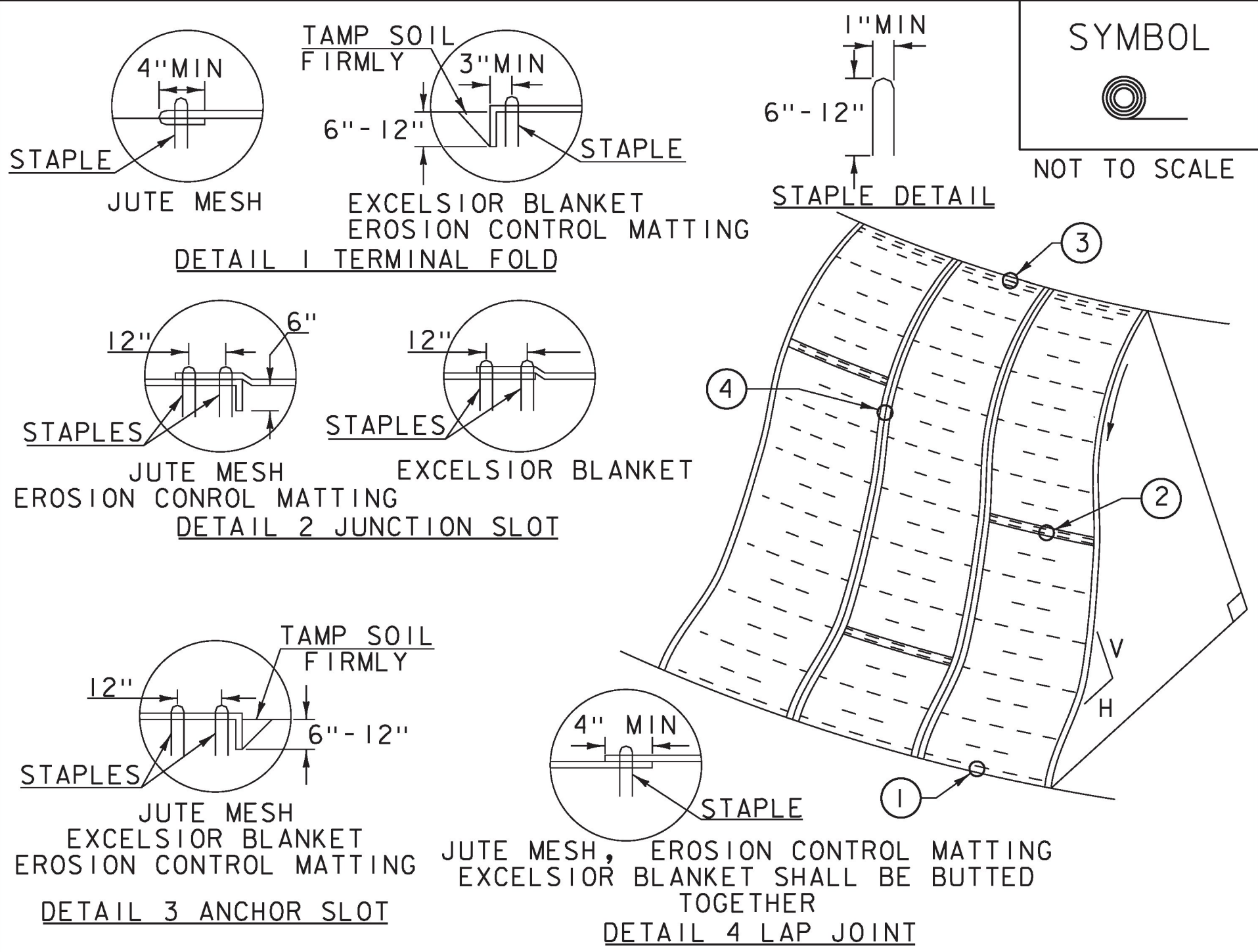
1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: dlib048epscdet	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EPSC NARRATIVE SHEET	SHEET 25 OF 48





CONSTRUCTION SPECIFICATIONS

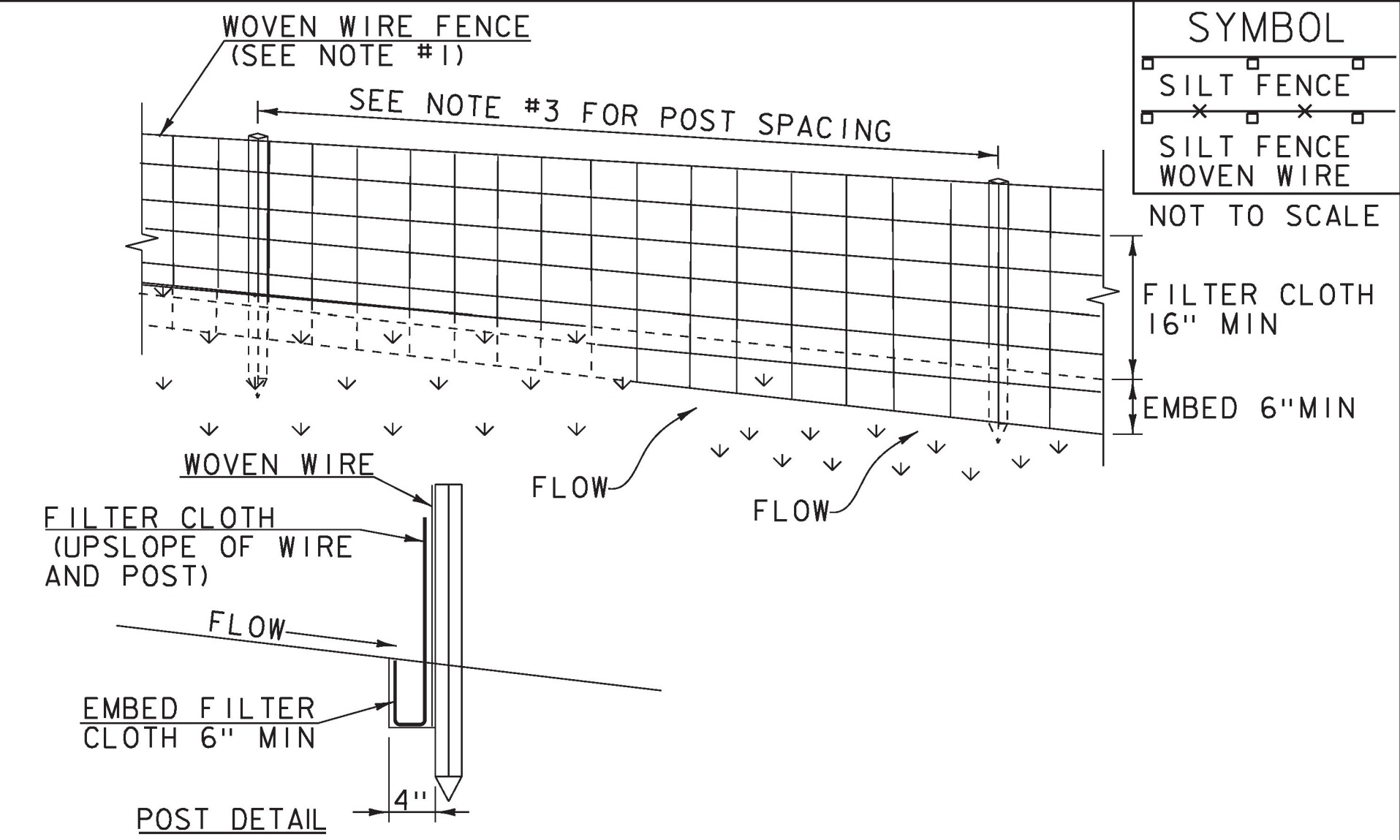
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION  
CONTROL PRODUCT  
(RECP) SIDE SLOPE

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.  
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS		
APRIL 16, 2007	JMF	
JANUARY 13, 2009	WHF	



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFIL100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

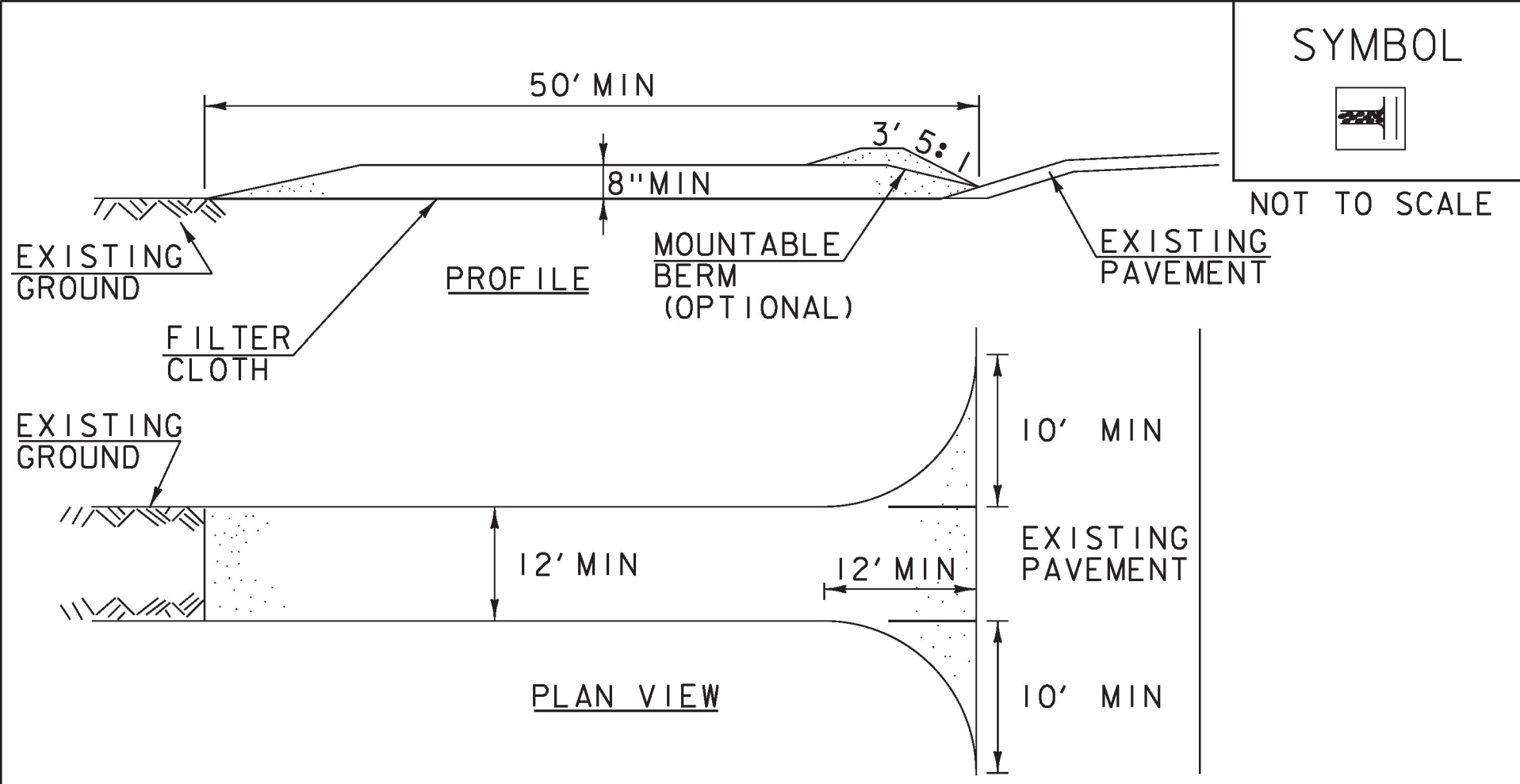
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS		
MARCH 21, 2008	WHF	
DECEMBER 11, 2008	WHF	
JANUARY 13, 2009	WHF	



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED  
CONSTRUCTION  
ENTRANCE

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS		
MARCH 24, 2008	WHF	
JANUARY 13, 2009	WHF	

PROJECT NAME: POULTNEY  
PROJECT NUMBER: STP 015-2(9)

FILE NAME: dlib048epscdet  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: VTRANS  
EPSC DETAIL SHEET 1

PLOT DATE: 23-AUG-2018  
DRAWN BY: S. ZWICK  
CHECKED BY: C. LEACH  
SHEET 26 OF 48

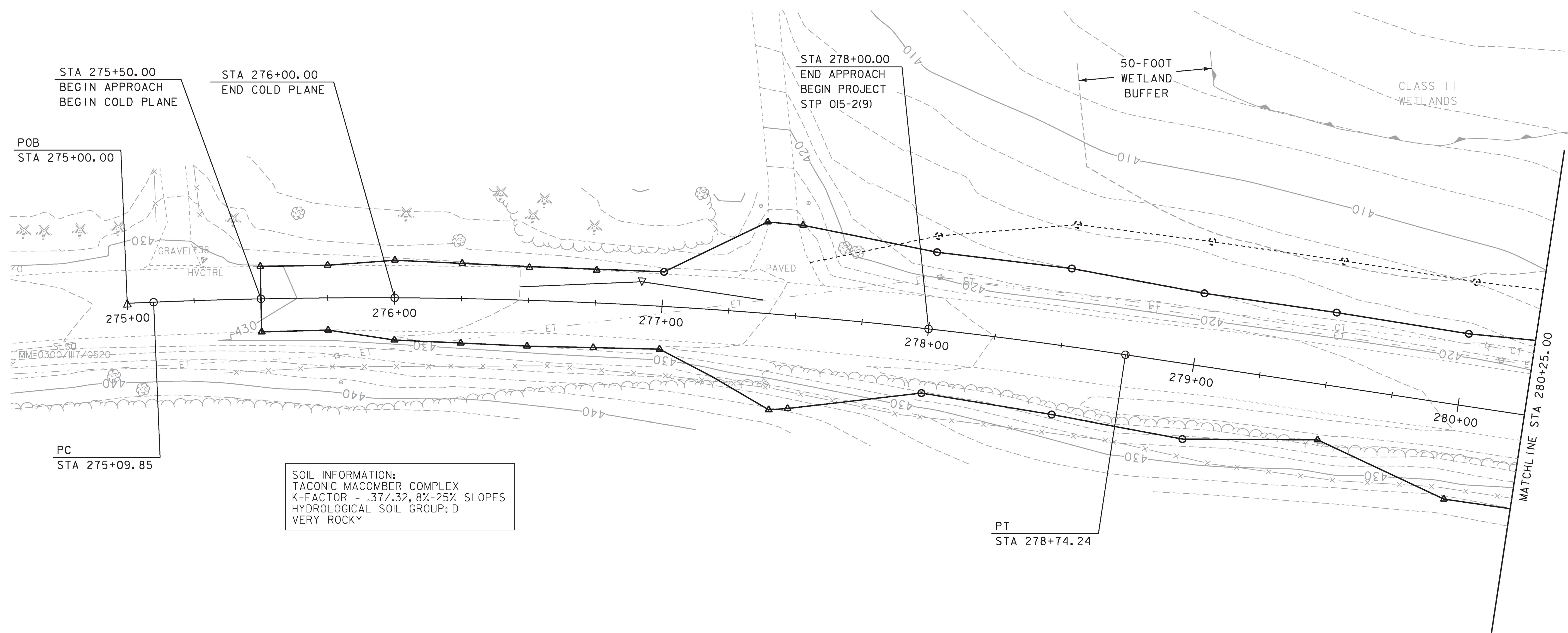
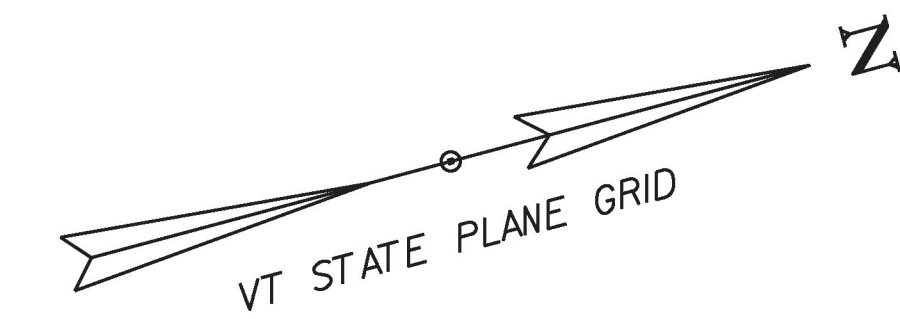










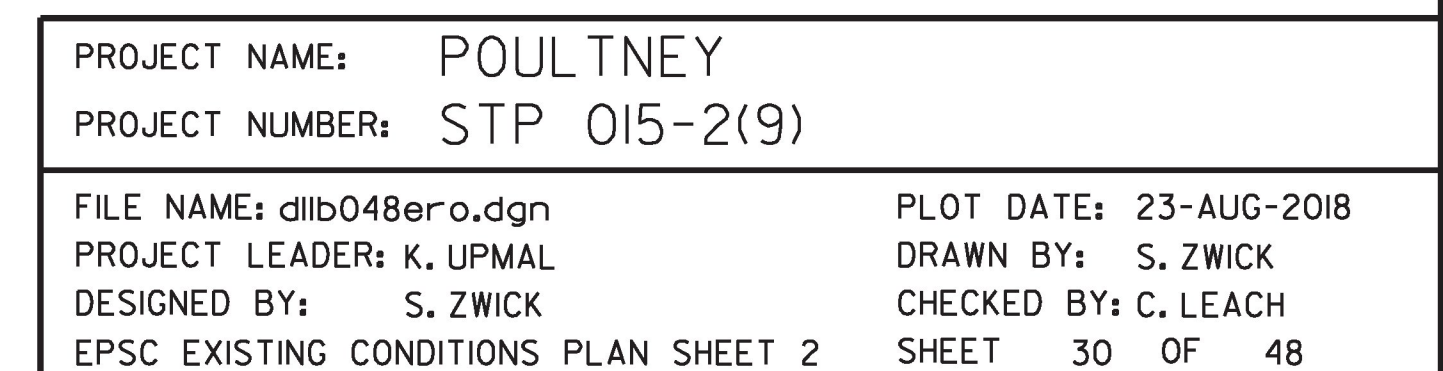
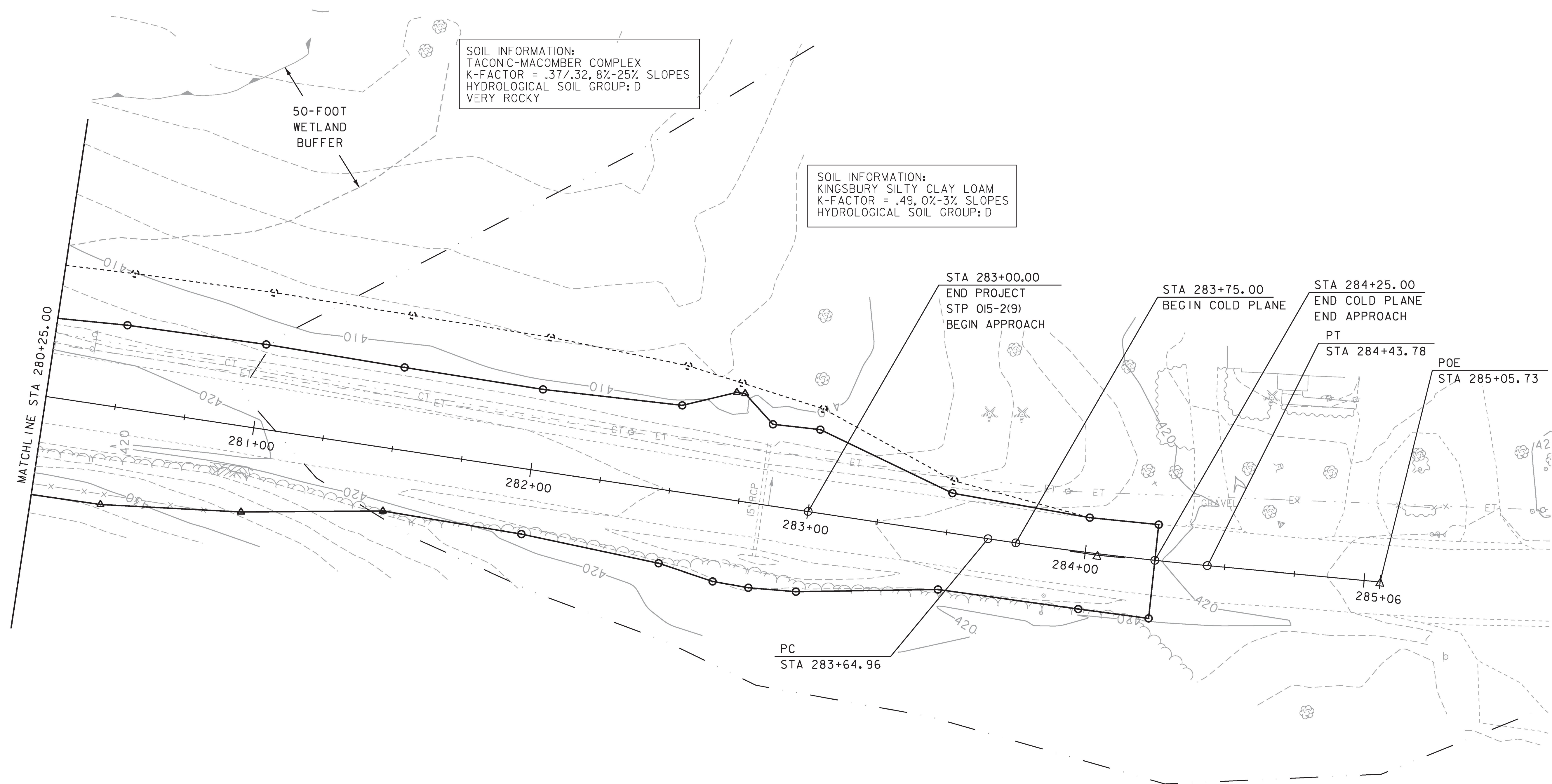


SOIL INFORMATION:  
TACONIC-MACOMBER COMPLEX  
K-FACTOR = .37/.32, 8%-25% SLOPES  
HYDROLOGICAL SOIL GROUP: D  
VERY ROCKY



PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d1b048ero.dgn	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EPSC EXISTING CONDITIONS PLAN SHEET 1	SHEET 29 OF 48







BARRIER FENCE  
STA 278+11 - STA 280+25 LT

GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED  
STA 278+11 - STA 280+25 LT

TEMPORARY EROSION MATTING  
STA 277+50 - STA 280+25 LT  
STA 277+00 - STA 280+25 RT

GRUBBING MATERIAL (6")  
STA 277+00 - STA 280+25 RT  
STA 277+50 - STA 280+25 LT

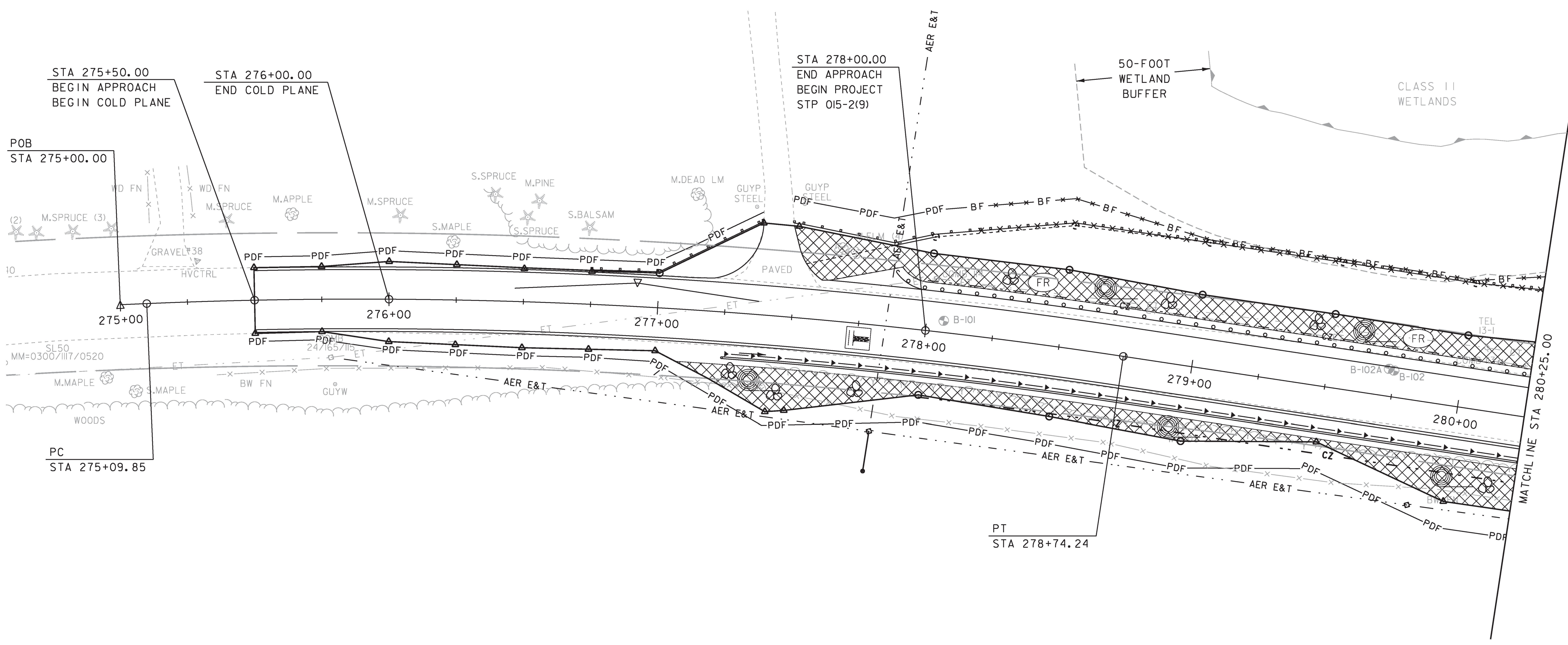
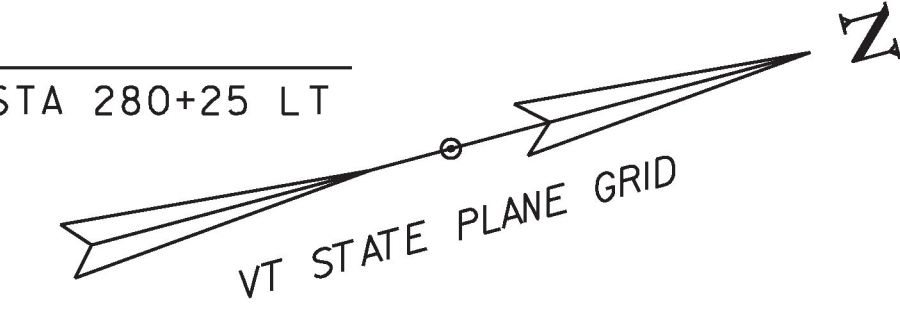
EROSION LOG  
STA 278+00 - STA 280+25 LT

PROJECT DEMARCATION FENCE  
STA 276+75 - STA 280+25 RT  
STA 276+75 - STA 277+36 LT  
STA 277+50 - STA 278+11 LT

GEOTEXTILE FOR SILT FENCE  
STA 276+75 - STA 277+36 LT  
STA 277+50 - STA 278+11 LT

VEHICLE TRACKING PAD  
STA 277+75 RT

TEMPORARY STONE CHECK DAM, TYPE I  
STA 277+25 - STA 280+25 RT



PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048bdr	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EPSC CONSTRUCTION PLAN SHEET 1	SHEET 31 OF 48



BARRIER FENCE  
STA 280+25 - STA 281+64 LT

GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED  
STA 280+25 - STA 281+64 LT

TEMPORARY EROSION MATTING  
STA 280+25 - STA 284+00 LT  
STA 280+25 - STA 282+00 RT

INLET PROTECTION DEVICE, TYPE I  
STA 282+70 RT

TEMPORARY STONE CHECK DAM, TYPE I  
STA 280+25 - STA 282+65 RT

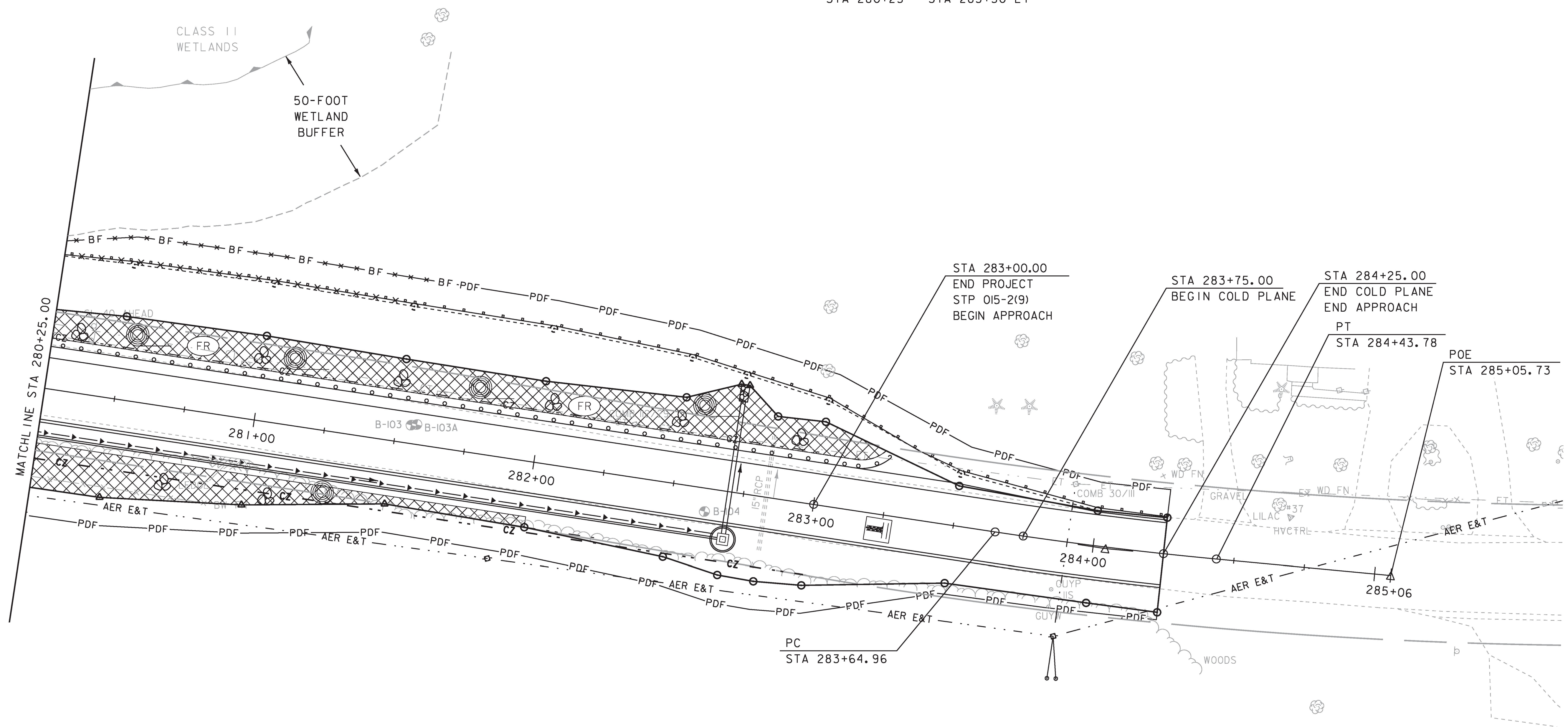
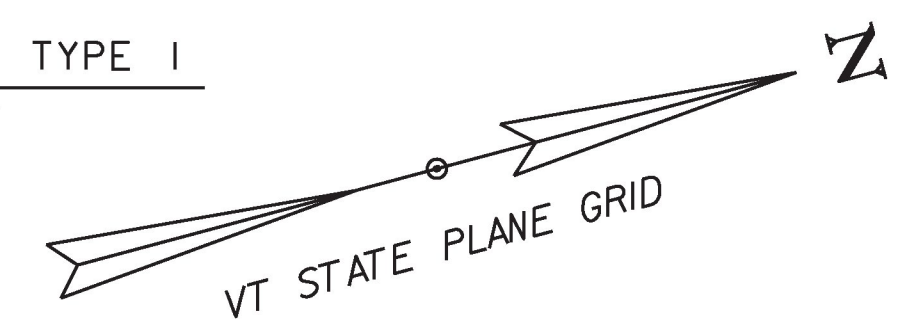
PROJECT DEMARCATION FENCE  
STA 281+64 - STA 284+25 LT  
STA 280+25 - STA 284+25 RT

GEOTEXTILE FOR SILT FENCE  
STA 281+64 - STA 284+25 LT

VEHICLE TRACKING PAD  
STA 283+25 RT

GRUBBING MATERIAL (6")  
STA 280+25 - STA 282+75 RT  
STA 280+25 - STA 283+50 LT

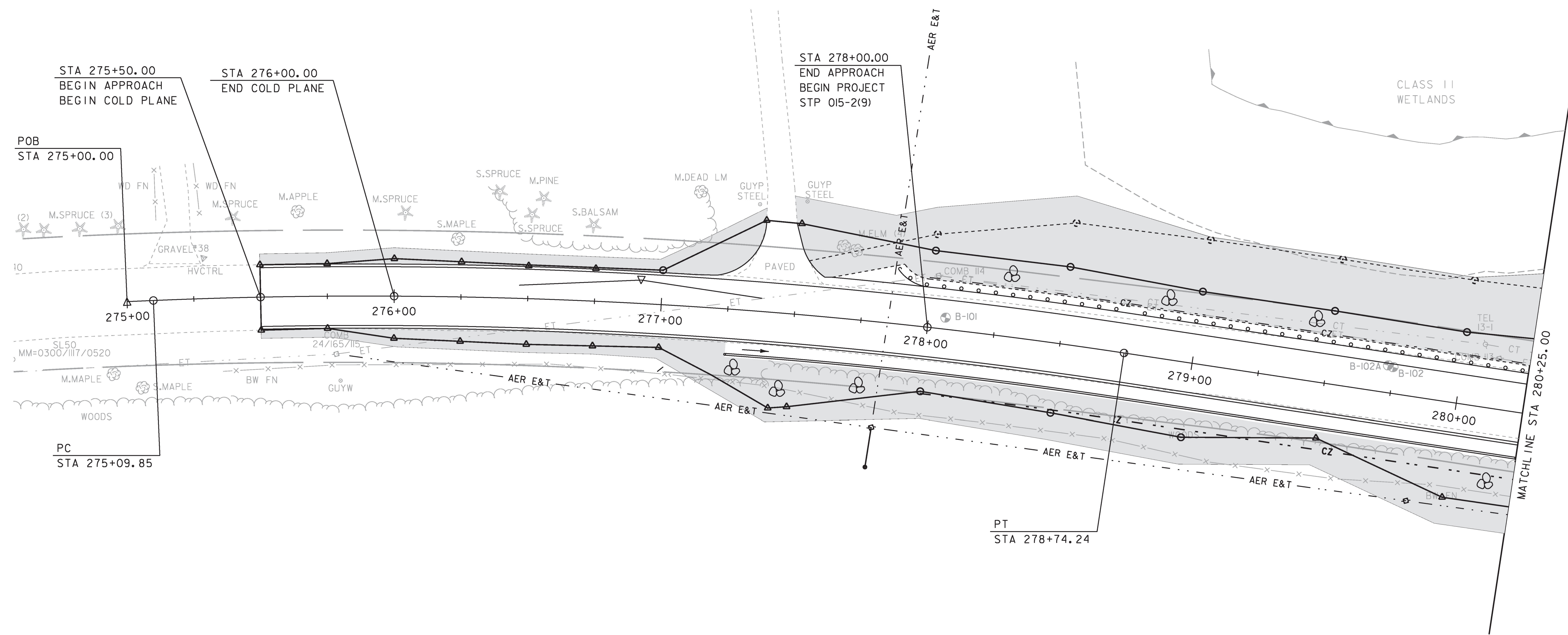
EROSION LOG  
STA 280+25 - STA 283+00 LT



0 20 40  
SCALE IN FEET

PROJECT NAME:	POULTNEY	PLOT DATE:	23-AUG-2018
PROJECT NUMBER:	STP 015-2(9)	DRAWN BY:	S. ZWICK
FILE NAME:	dlib048bdr	CHECKED BY:	C. LEACH
PROJECT LEADER:	K. UPMAL		
DESIGNED BY:	S. ZWICK		
EPSC CONSTRUCTION PLAN SHEET 2		SHEET	32 OF 48

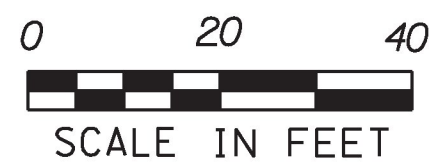




AREA OF DISTURBANCE  
SHEET TOTAL = 0.638 AC  
PROJECT TOTAL = 1.369 AC

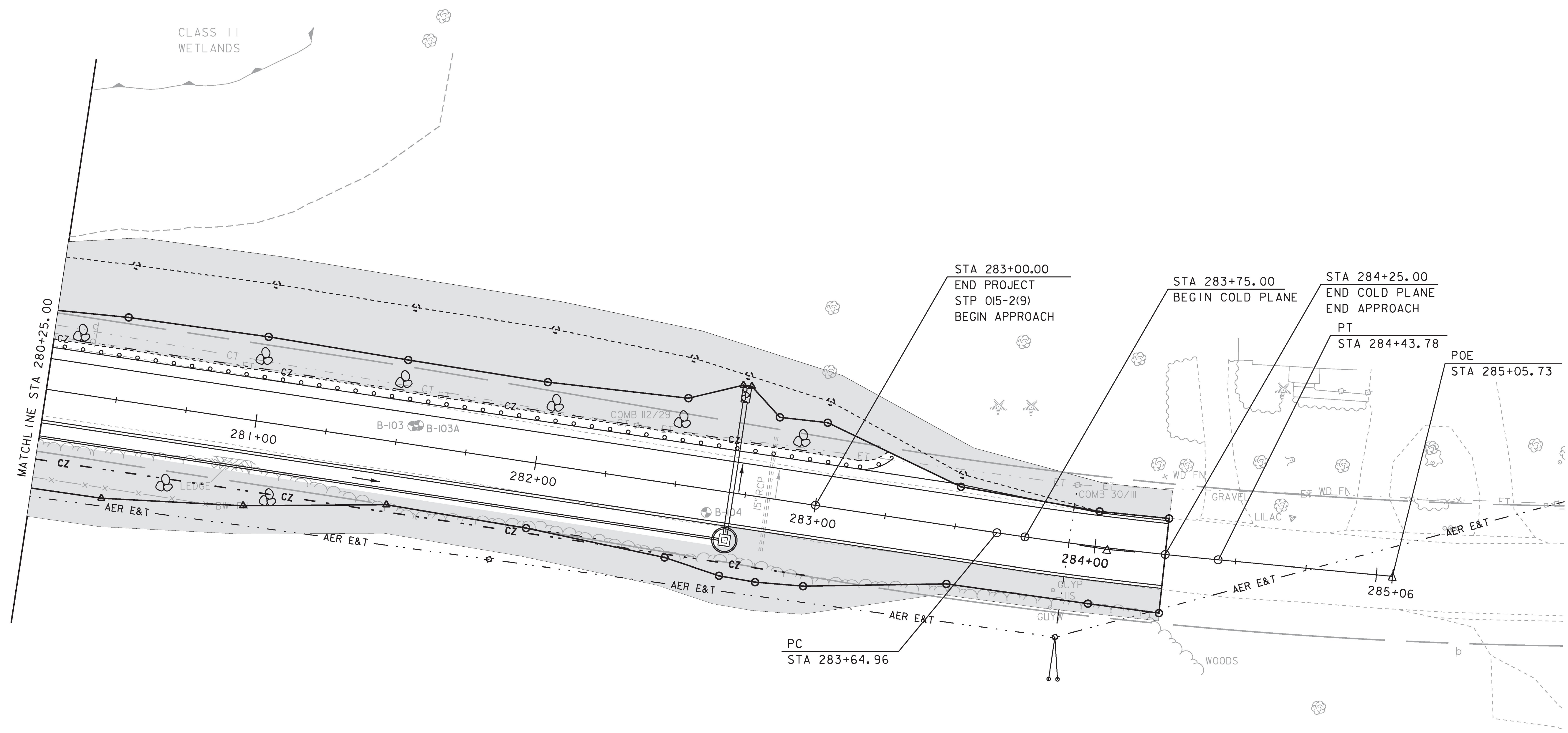
LEGEND

DISTURBED AREA REQUIRING REVEGATATION



PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048bdr	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EPSC FINAL CONDITIONS SHEET 1	SHEET 33 OF 48

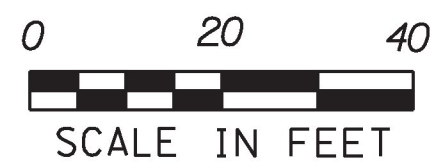




AREA OF DISTURBANCE  
 SHEET TOTAL = 0.731 AC  
 PROJECT TOTAL = 1.369 AC

LEGEND

DISTURBED AREA REQUIRING REVEGETATION



PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048bdr	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EPSC FINAL CONDITIONS SHEET 2	SHEET 34 OF 48

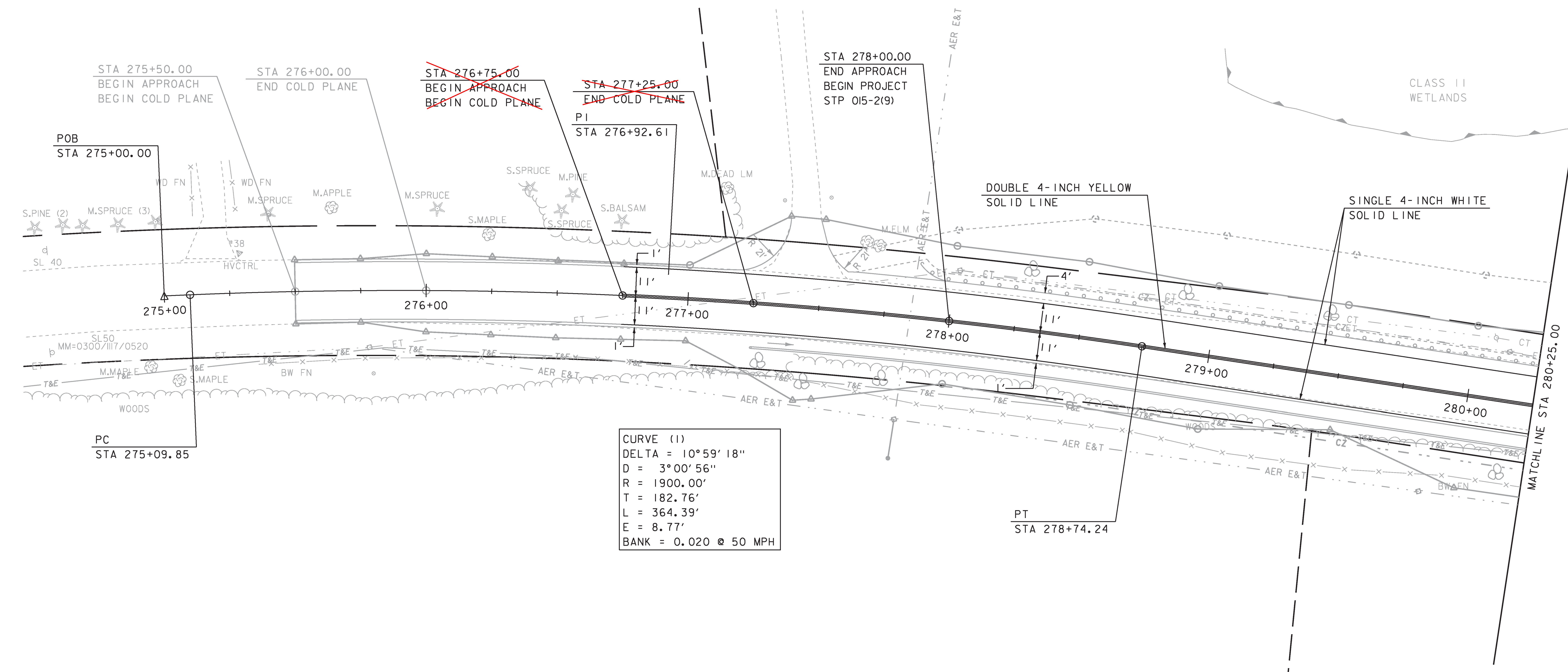


TEMPORARY 4 INCH WHITE LINE  
275+50 STA ~~276+75~~ - STA 280+25 LT (SOLID)  
STA ~~276+75~~ - STA 280+25 RT (SOLID)  
275+50

TEMPORARY 4-INCH YELLOW LINE  
275+50 STA ~~276+75~~ - STA 280+25 LT (SOLID)  
STA ~~276+75~~ - STA 280+25 RT (SOLID)  
275+50

~~DURABLE 4 INCH WHITE LINE, SEE OPTION ITEMS~~  
275+50 STA ~~276+75~~ - STA 280+25 LT (SOLID)  
STA ~~276+75~~ - STA 280+25 RT (SOLID)  
275+50

~~DURABLE 4-INCH YELLOW LINE, SEE OPTION ITEMS~~  
275+50 STA ~~276+75~~ - STA 280+25 LT (SOLID)  
STA ~~276+75~~ - STA 280+25 RT (SOLID)  
275+50



PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	dlib048+sbdr.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
SIGNS & PAVEMENT MARKINGS SHEET 1	PLOT DATE: 23-AUG-2018 DRAWN BY: S. ZWICK CHECKED BY: C. LEACH SHEET 35 OF 48



TEMPORARY 4 INCH WHITE LINE  
STA 280+25 - STA 284+25 LT (SOLID)  
STA 280+25 - STA 284+25 RT (SOLID)

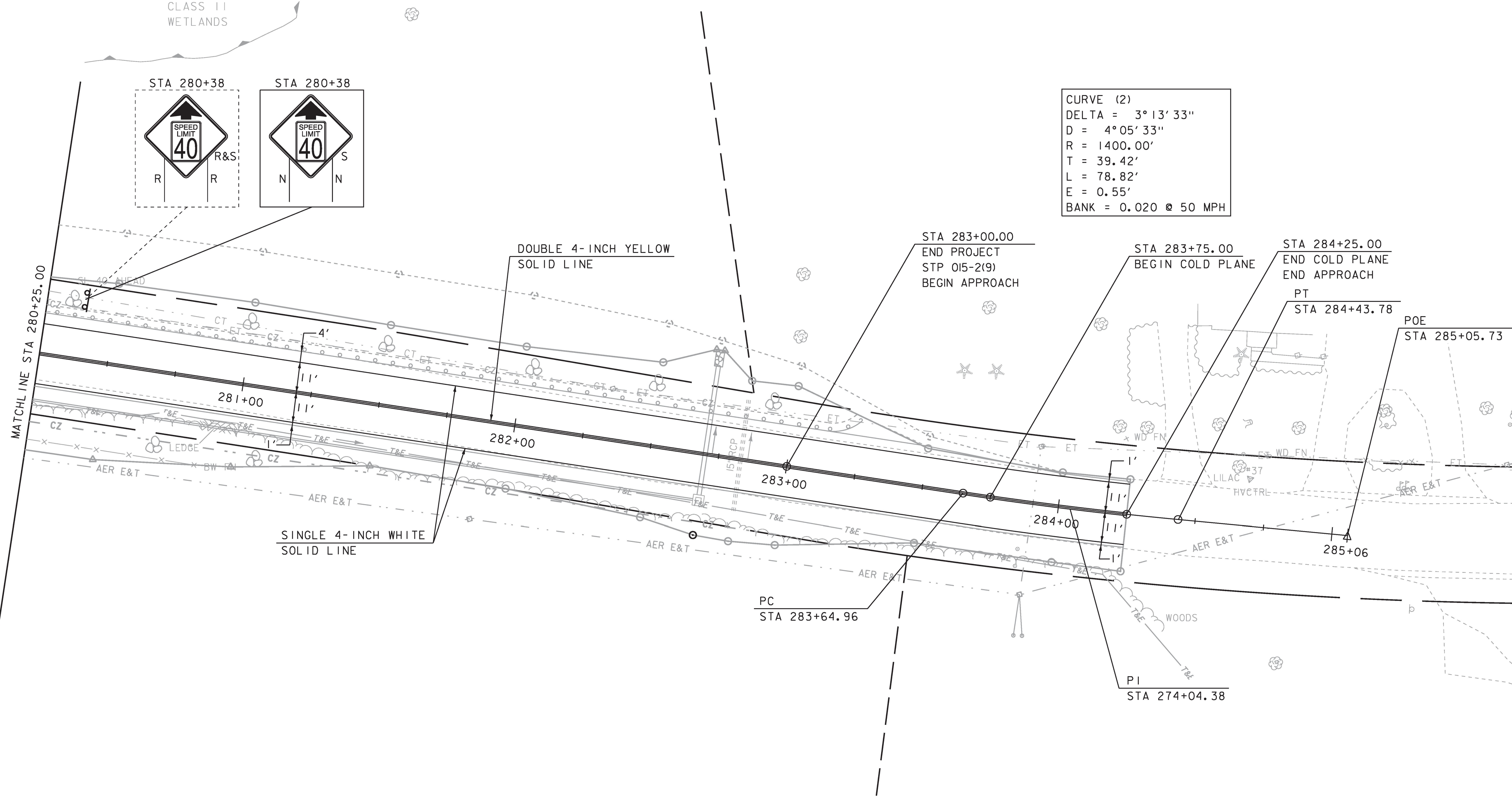
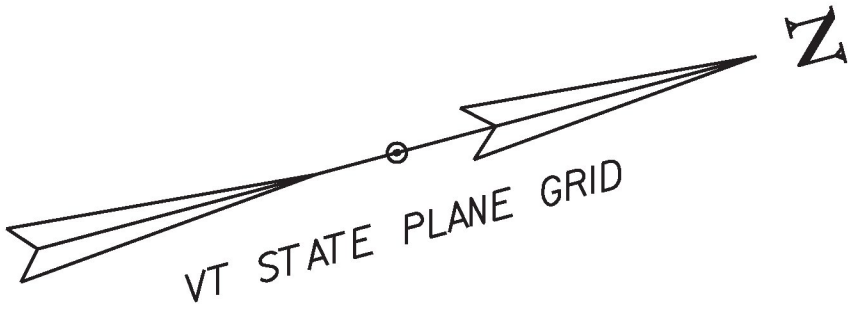
TEMPORARY 4-INCH YELLOW LINE  
STA 280+25 - STA 284+25 LT (SOLID)  
STA 280+25 - STA 284+25 RT (SOLID)

REMOVING SIGNS  
STA 280+38

~~DURABLE 4 INCH WHITE LINE, SEE OPTION ITEMS~~  
STA 280+25 - STA 284+25 LT (SOLID)  
STA 280+25 - STA 284+25 RT (SOLID)

~~DURABLE 4-INCH YELLOW LINE, SEE OPTION ITEMS~~  
STA 280+25 - STA 284+25 LT (SOLID)  
STA 280+25 - STA 284+25 RT (SOLID)

ERECTING SALVAGED SIGNS  
STA 280+38

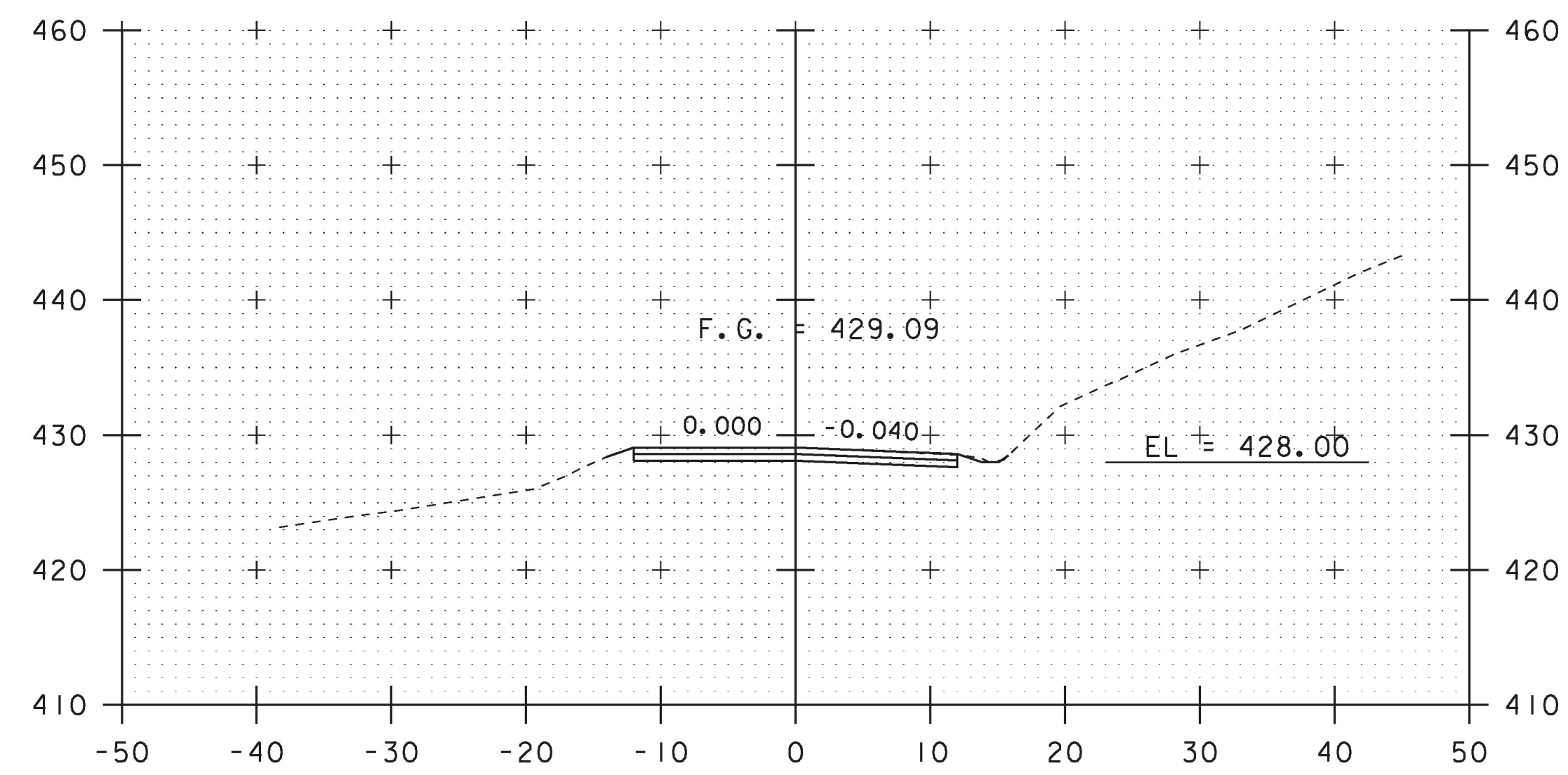


CURVE (2)  
DELTA = 3°13'33"  
D = 4°05'33"  
R = 1400.00'  
T = 39.42'  
L = 78.82'  
E = 0.55'  
BANK = 0.020 @ 50 MPH

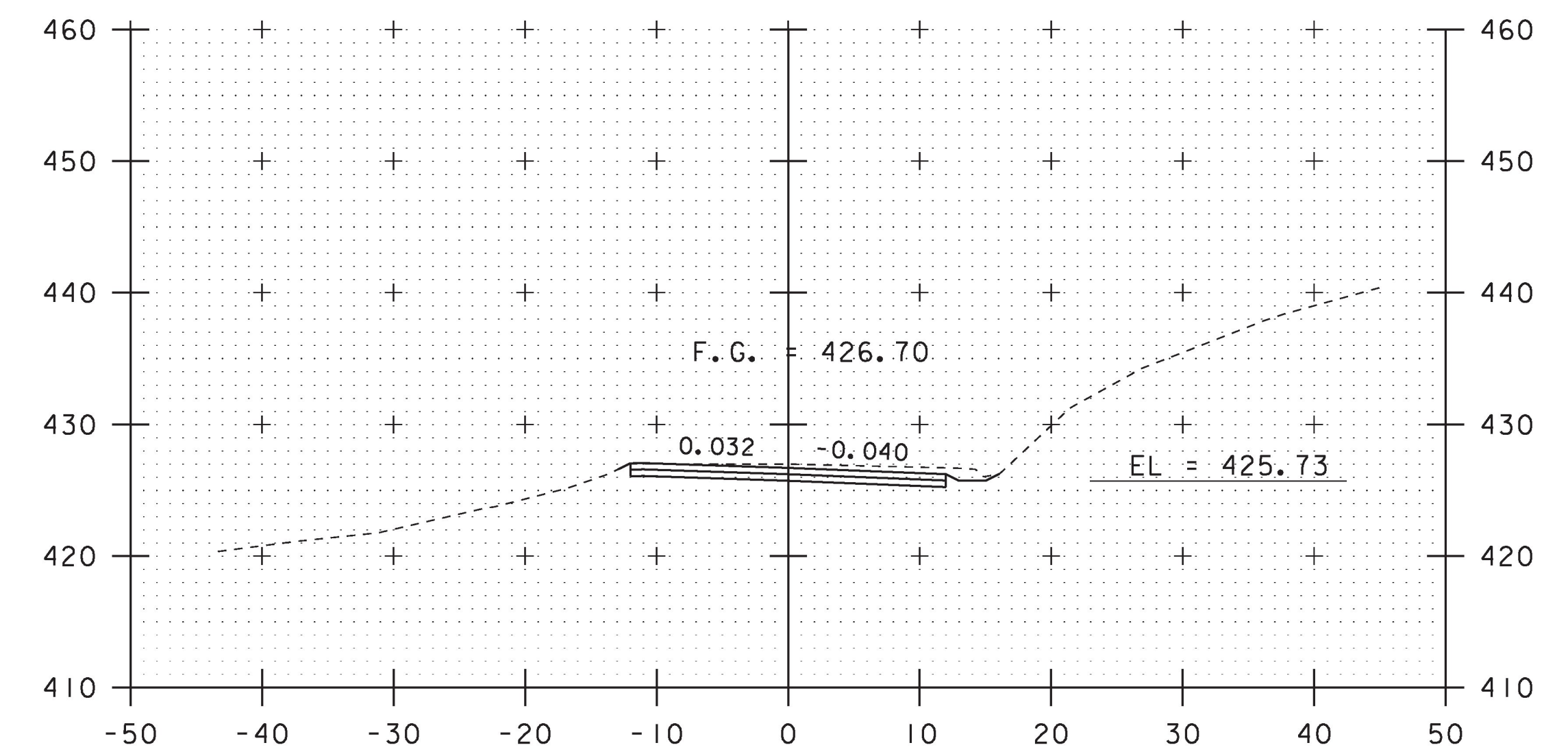


PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	dlib048+sbdr.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
SIGNS & PAVEMENT MARKINGS SHEET 2	PLOT DATE: 23-AUG-2018 DRAWN BY: S. ZWICK CHECKED BY: C. LEACH SHEET 36 OF 48

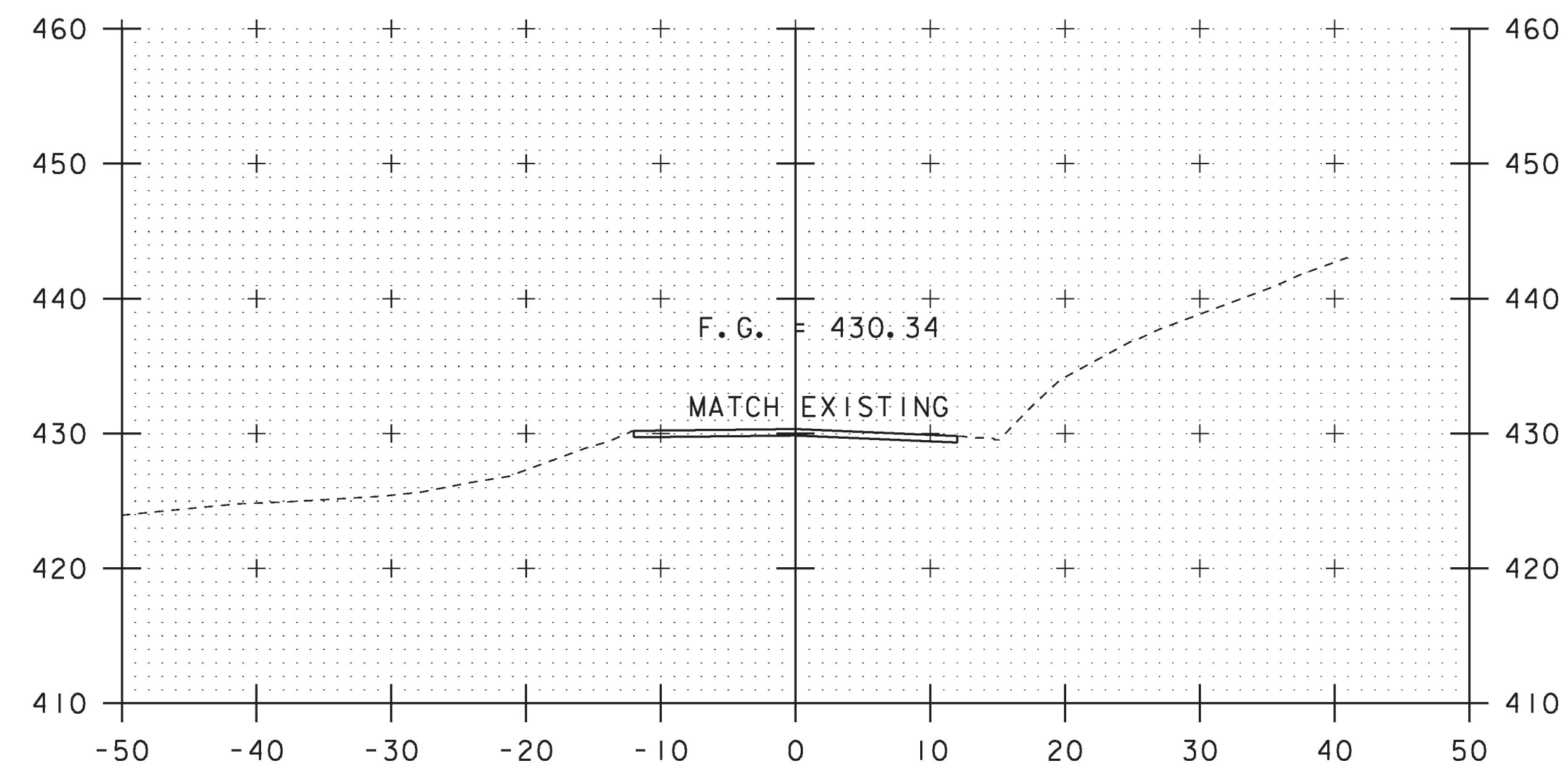




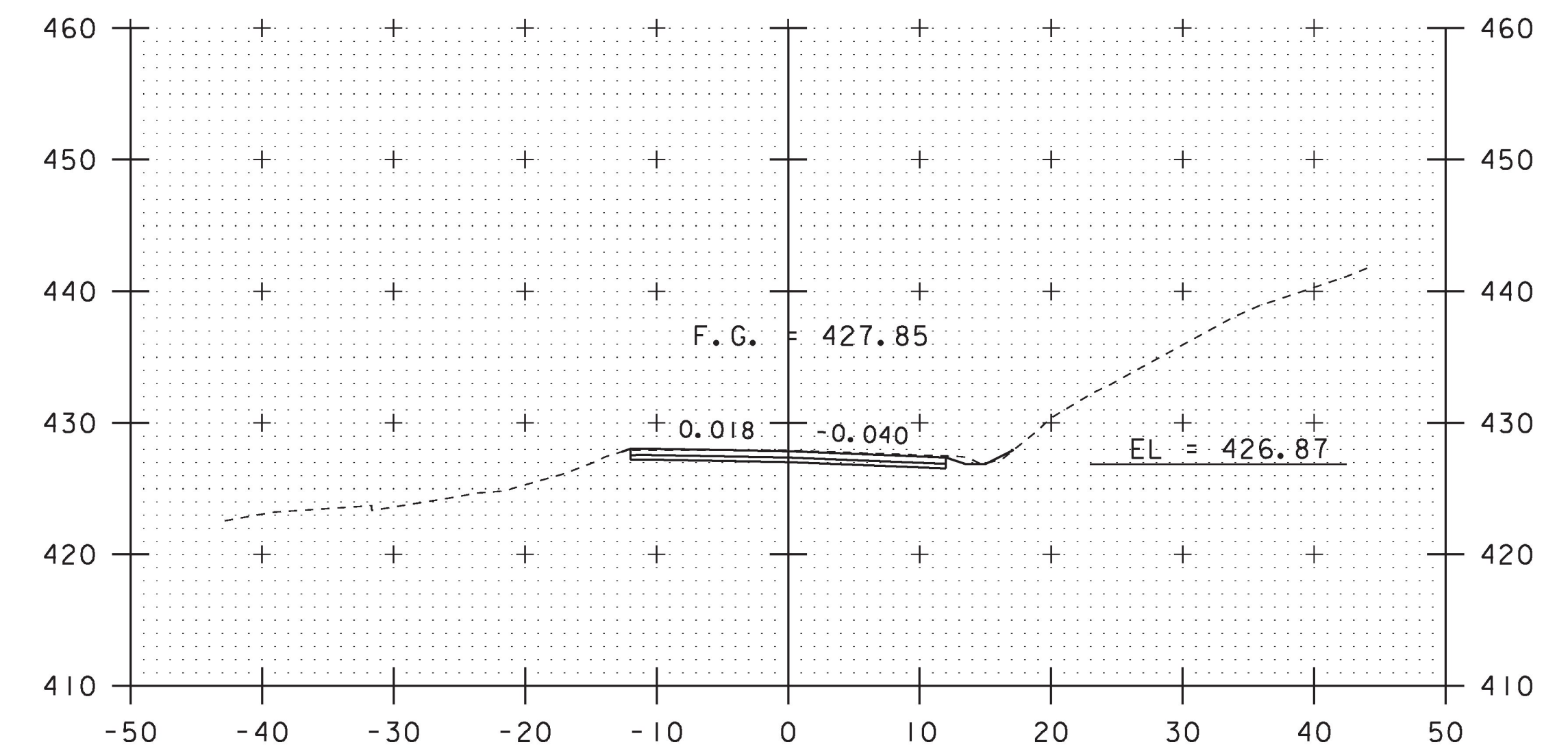
276+00



277+00



275+50  
BEGIN APPROACH  
BEGIN COLD PLANE

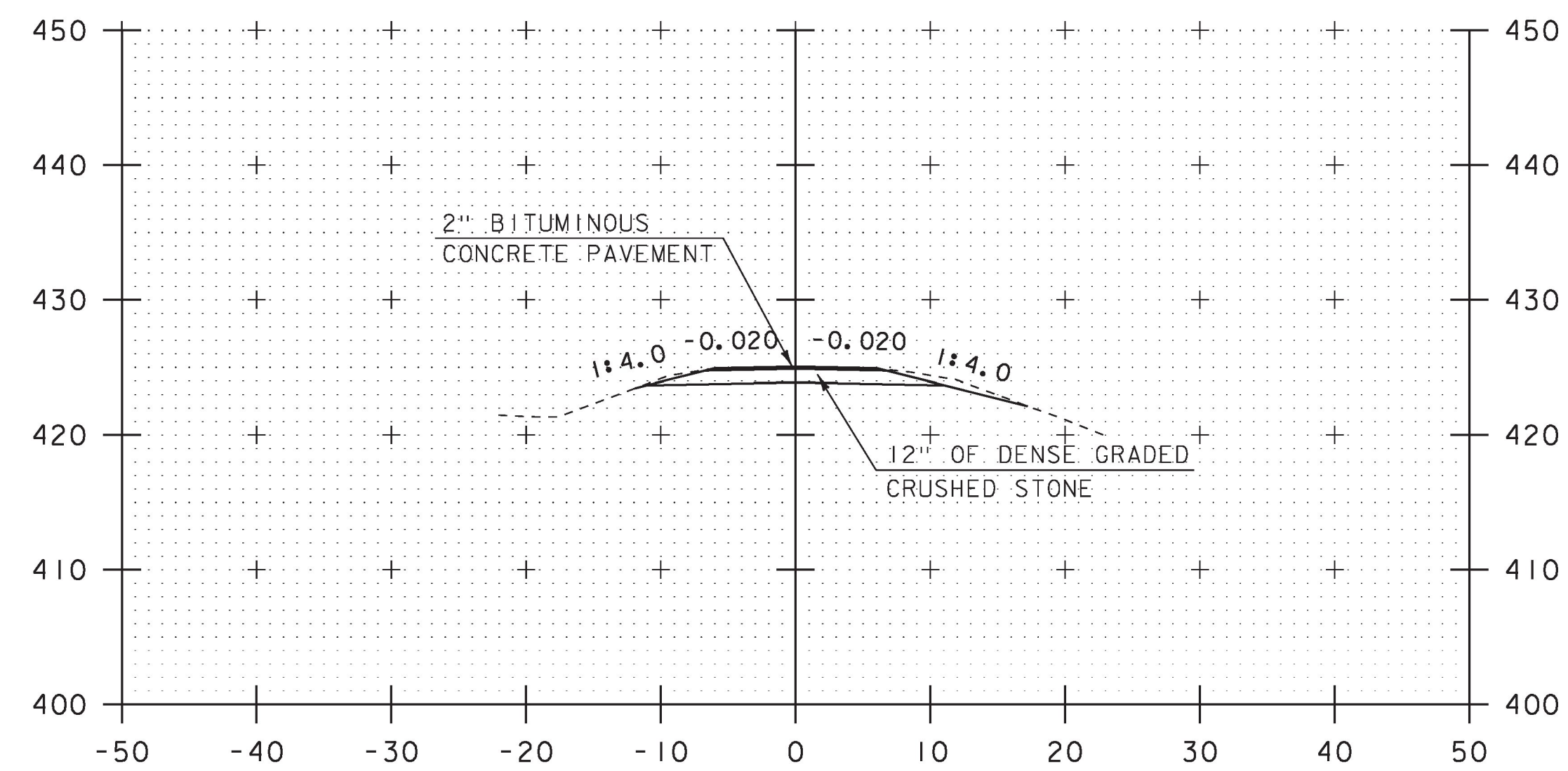


276+50

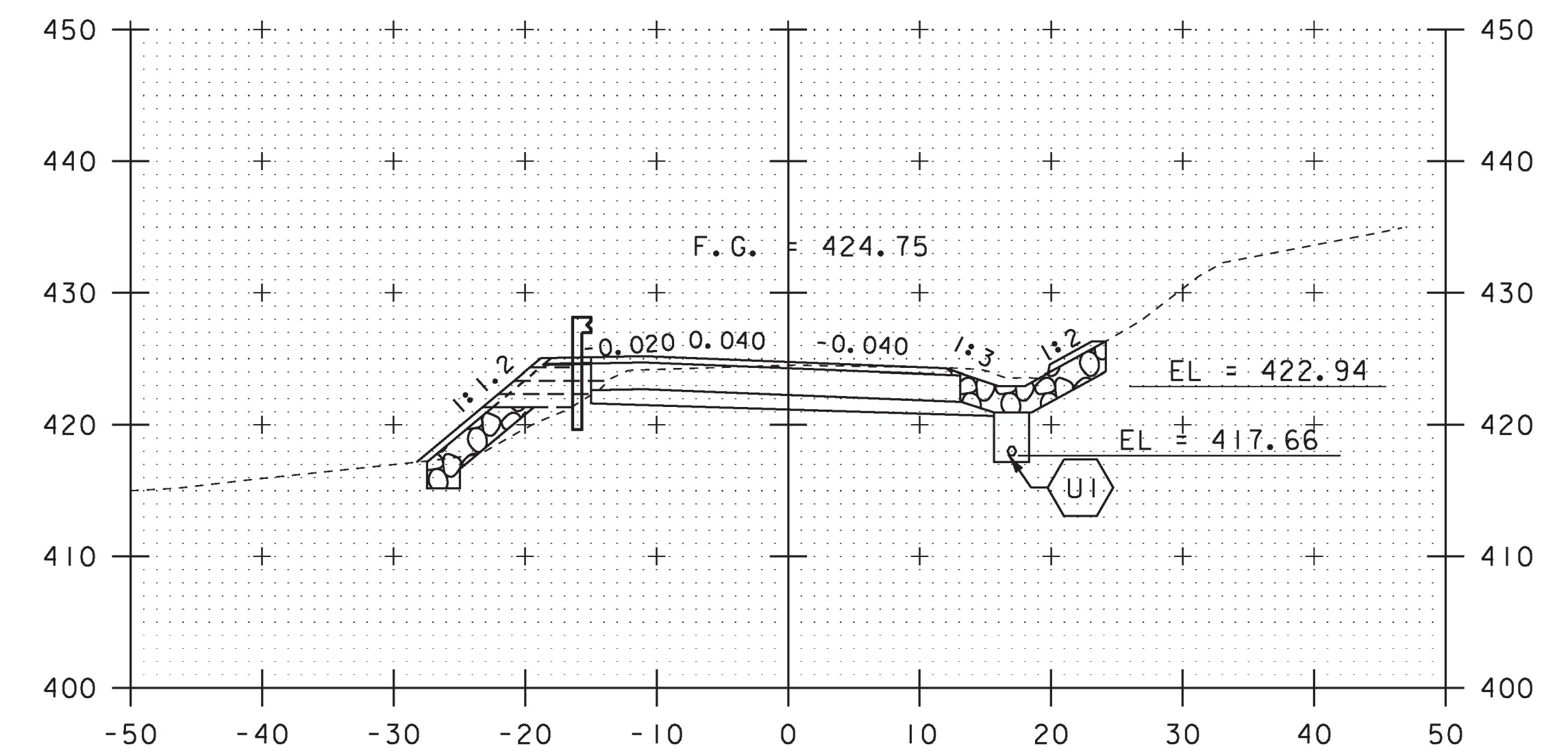
STA. 275+50 TO STA. 277+00

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d1lb048wrk	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 1	SHEET 37 OF 48

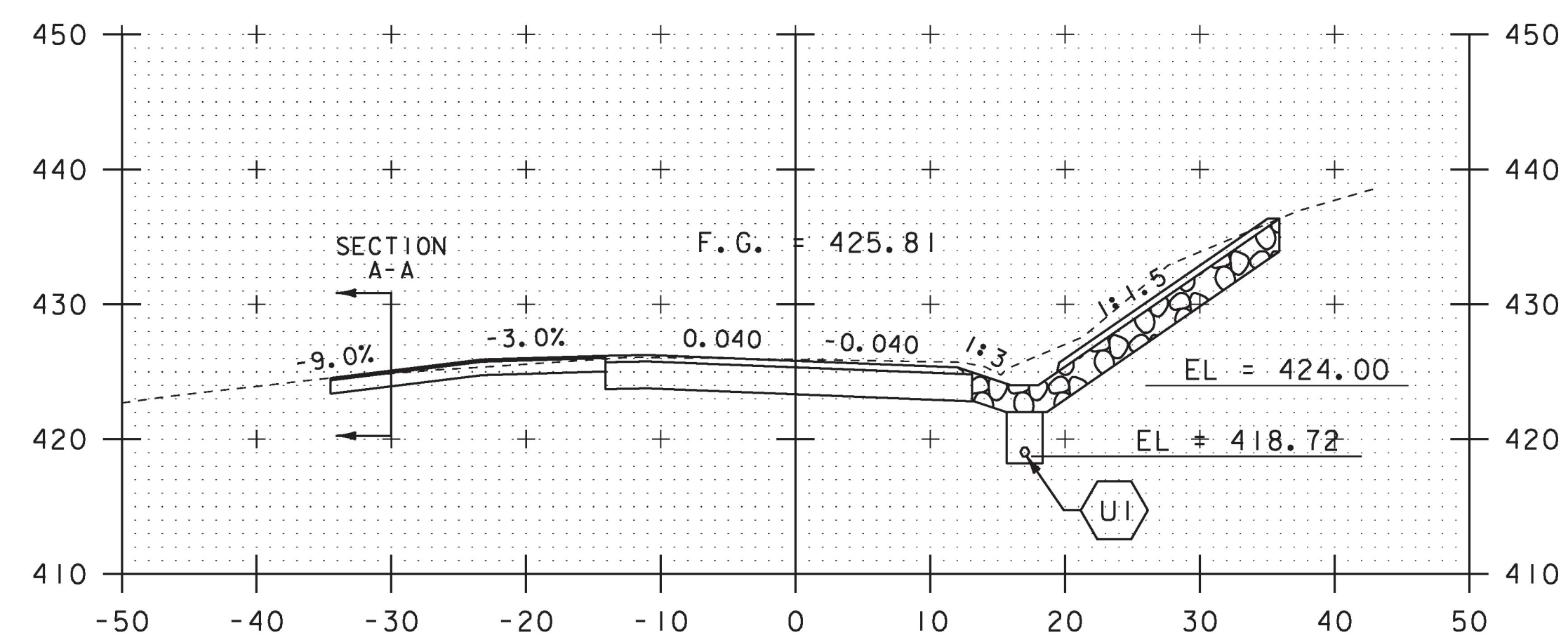




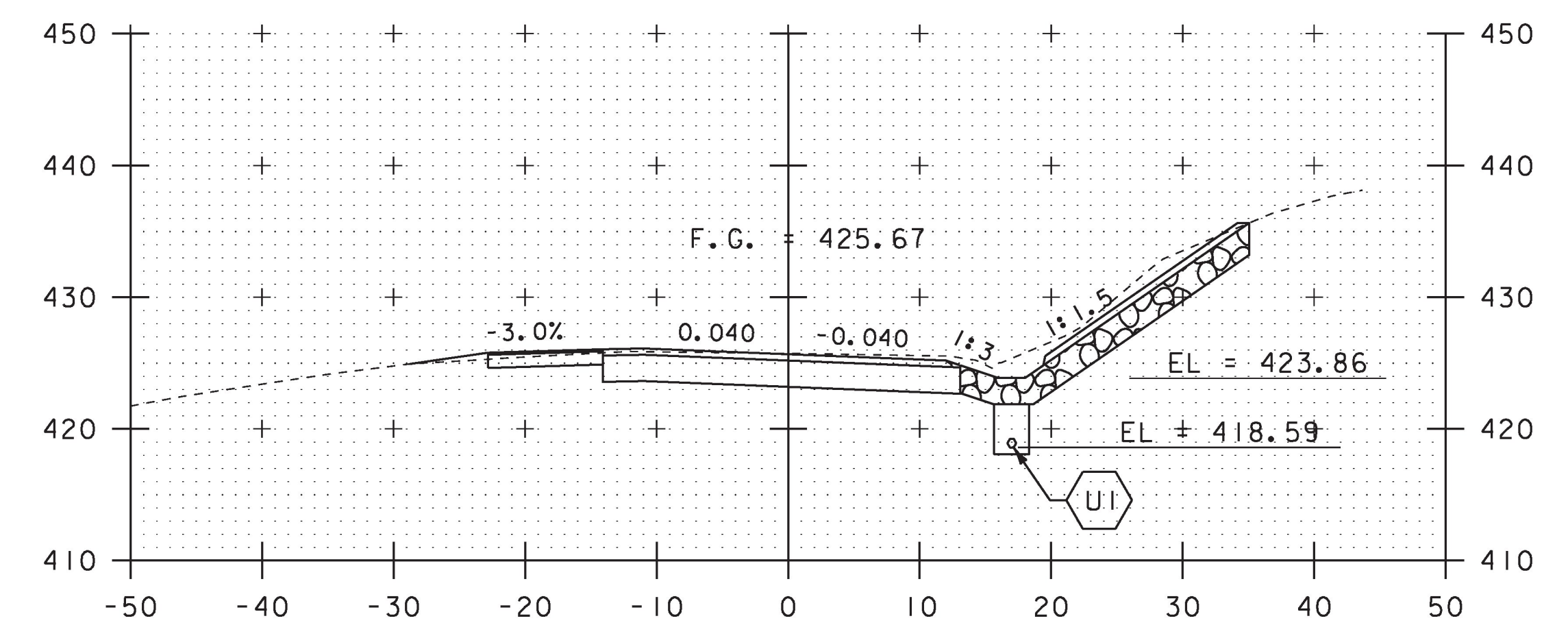
277+43 DRIVE LT  
SECTION A-A



278+00  
END APPROACH  
BEGIN PROJECT STP 015-2(9)



277+43  
DRIVE LT

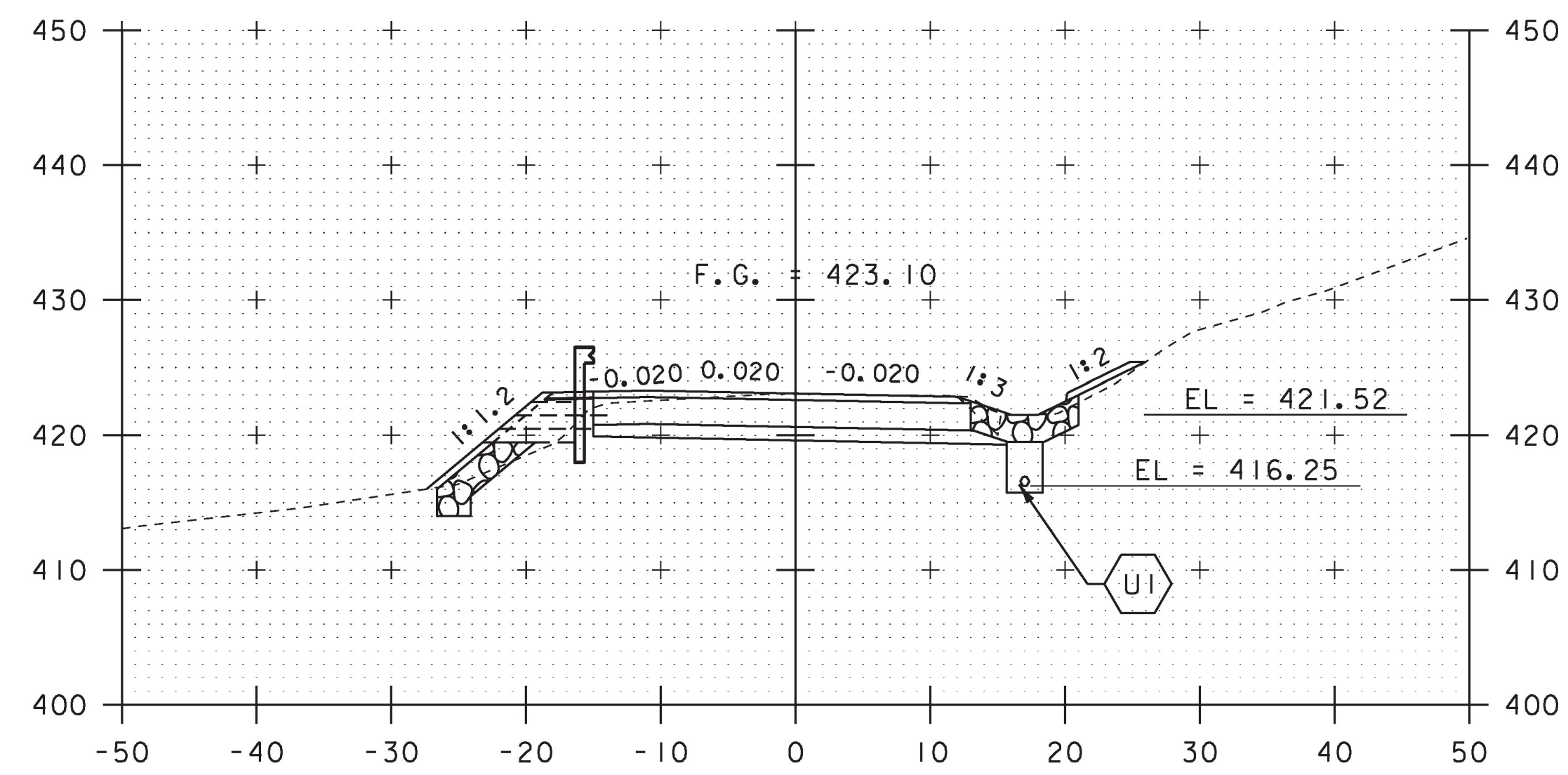


277+50

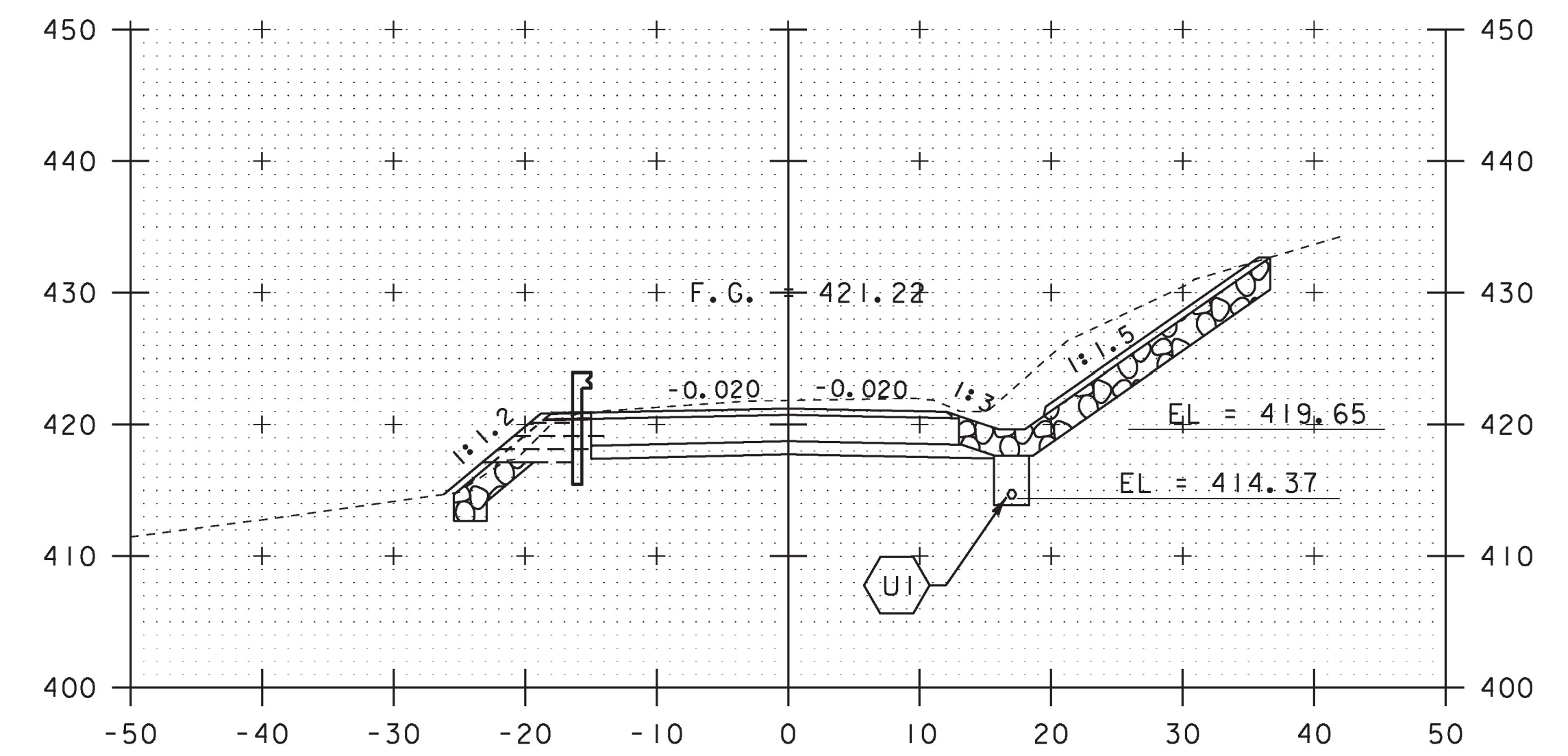
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PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048wrk	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 2	SHEET 38 OF 48

STA. 277+43 TO STA. 278+00

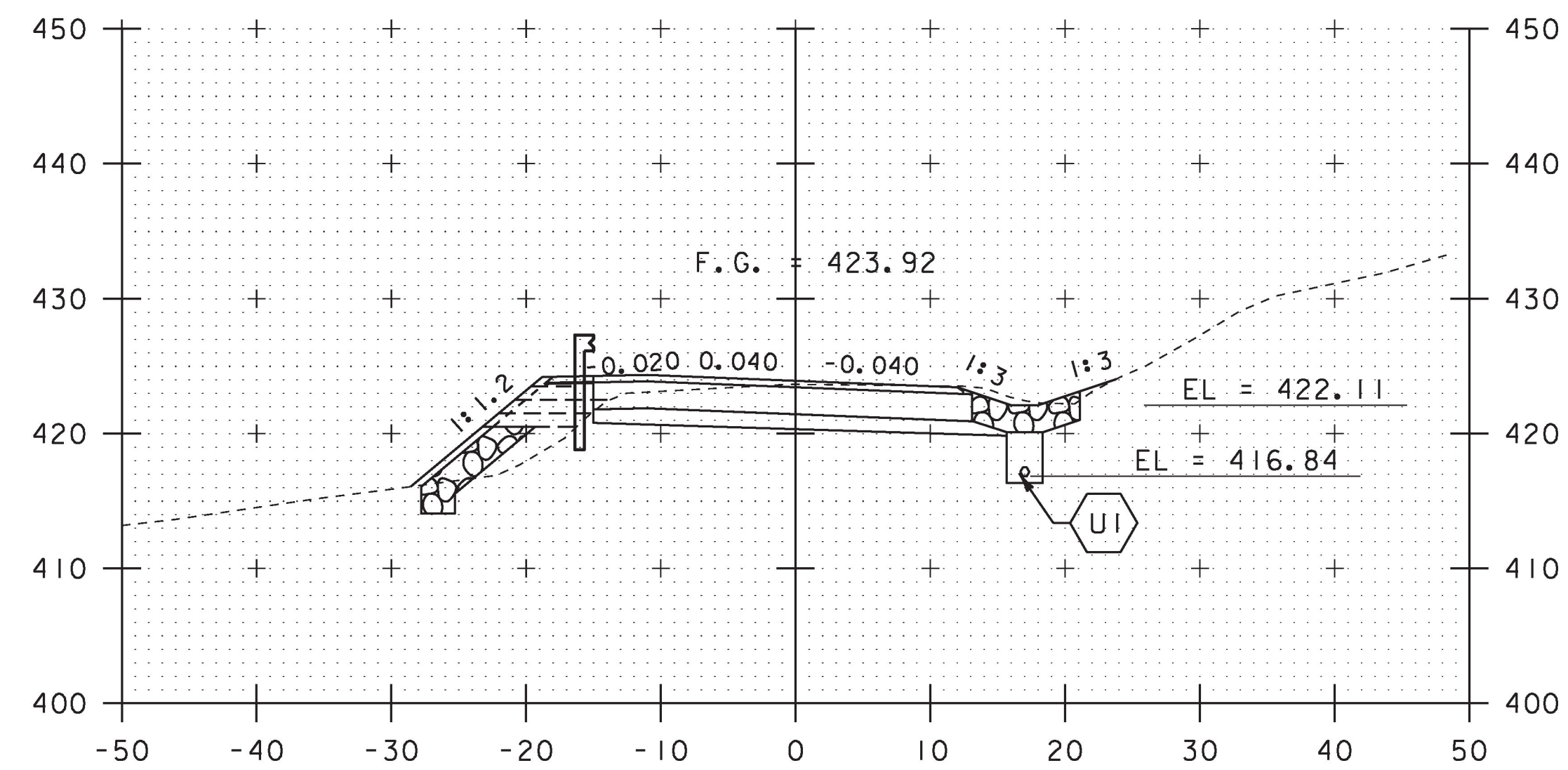




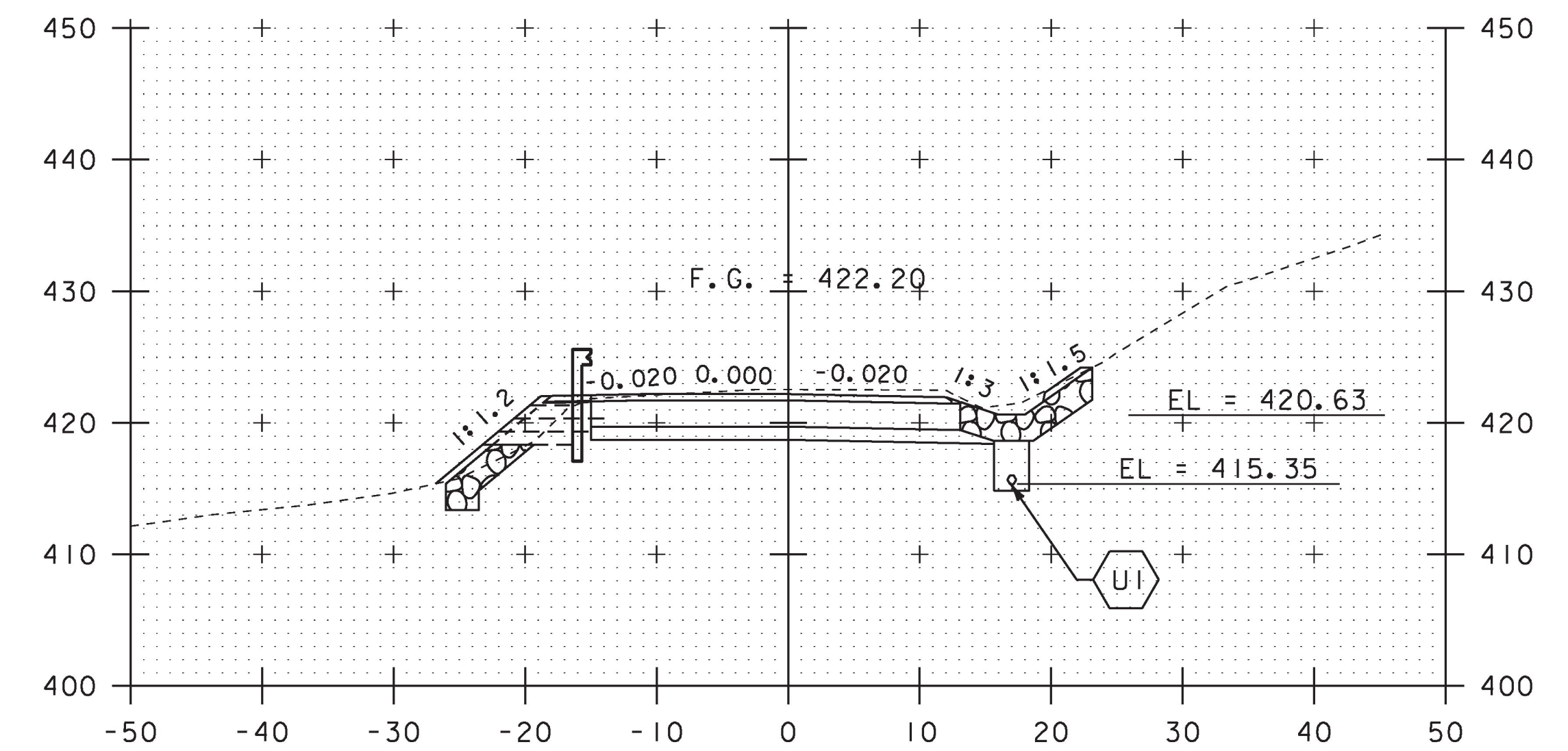
279+00



280+00



278+50

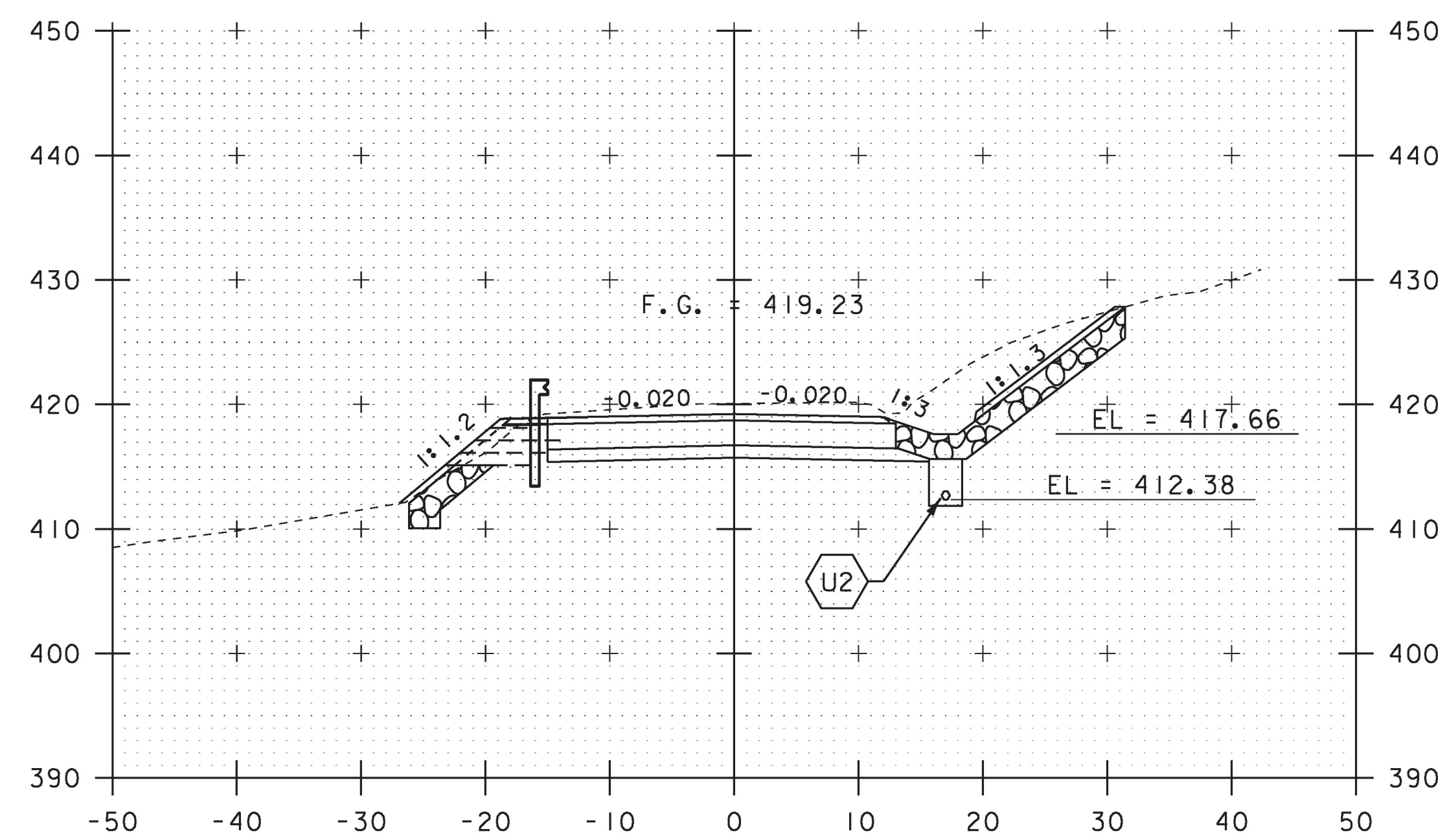


279+50

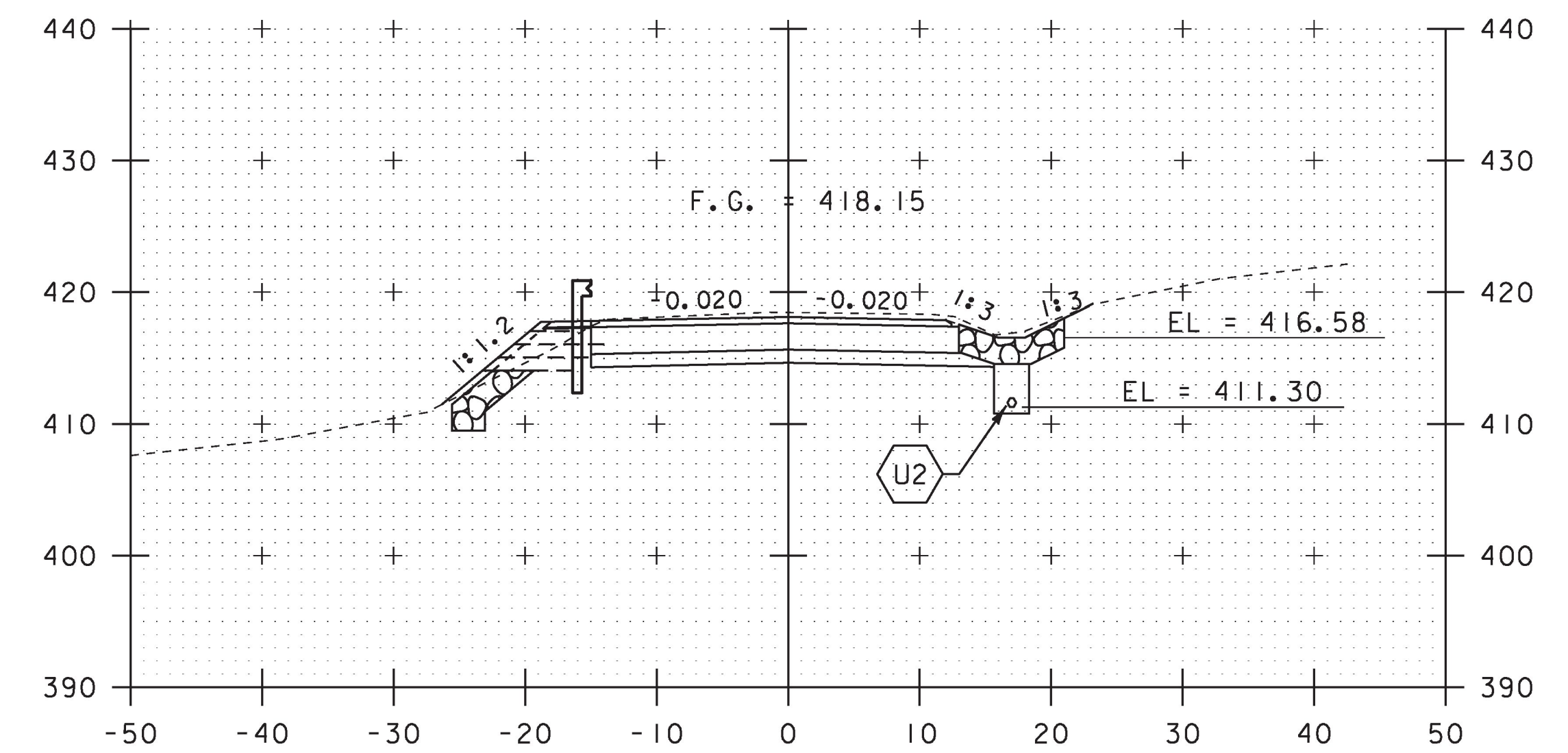
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PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048wrk	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 3	SHEET 39 OF 48

STA. 278+50 TO STA. 280+00

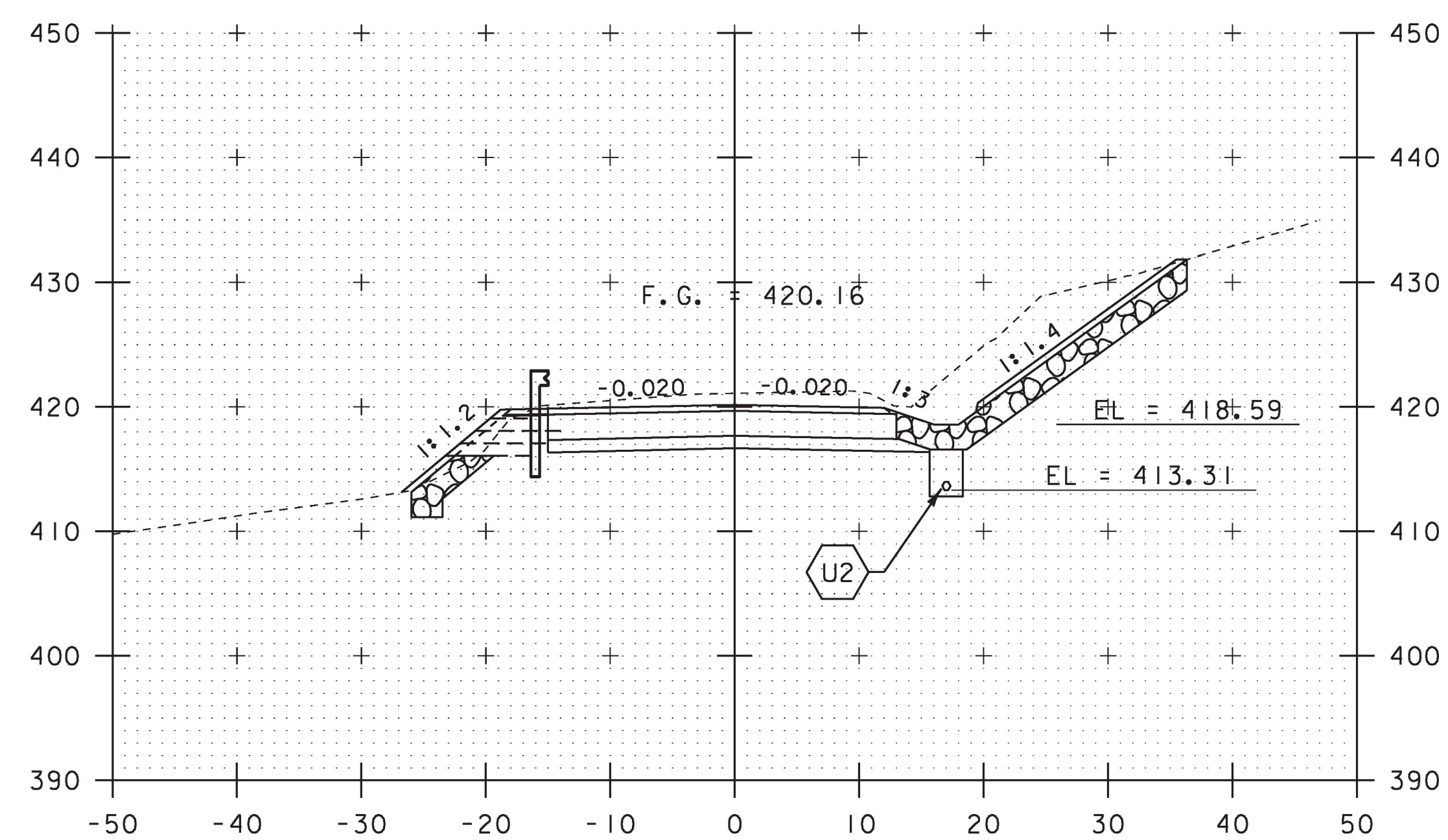




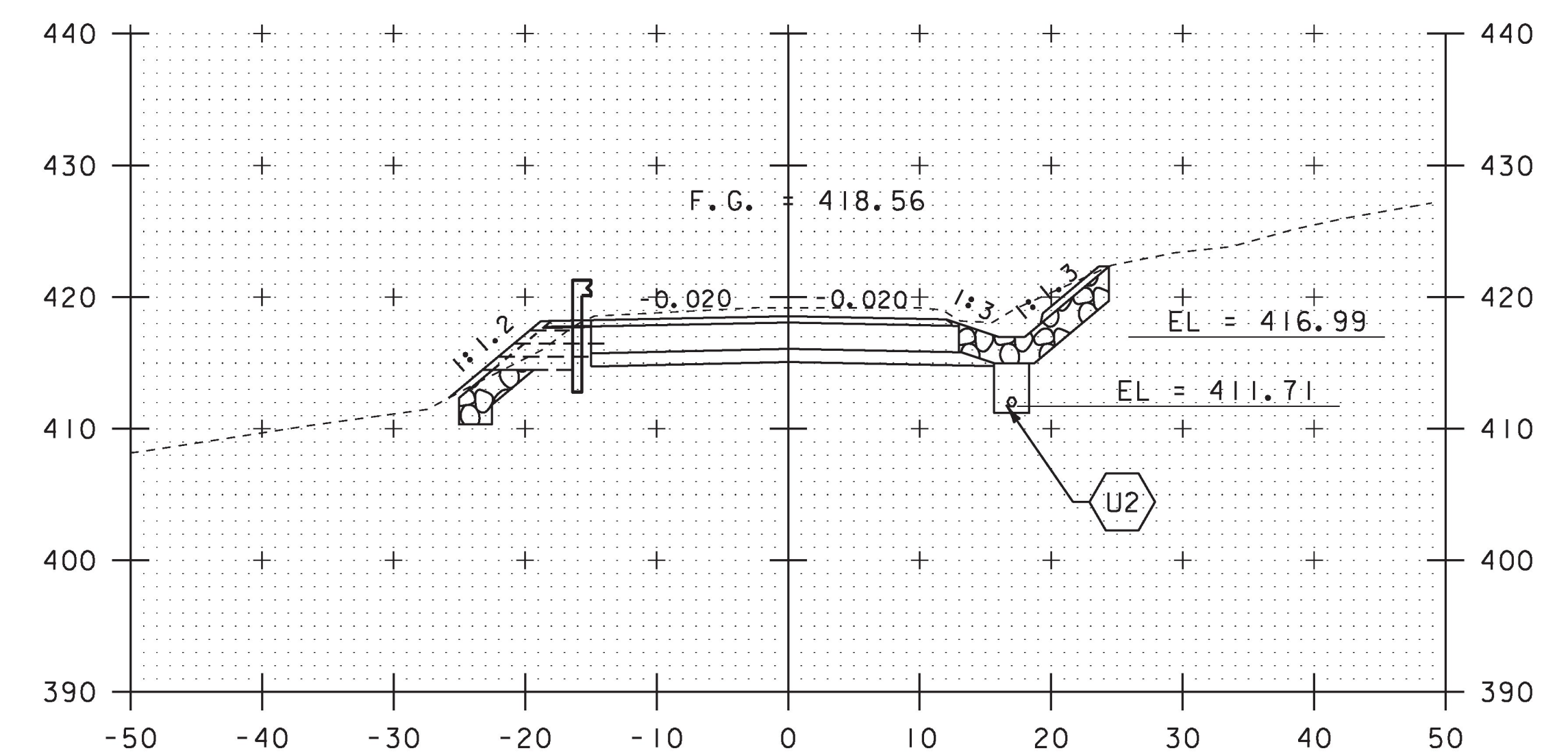
281+00



282+00



280+50

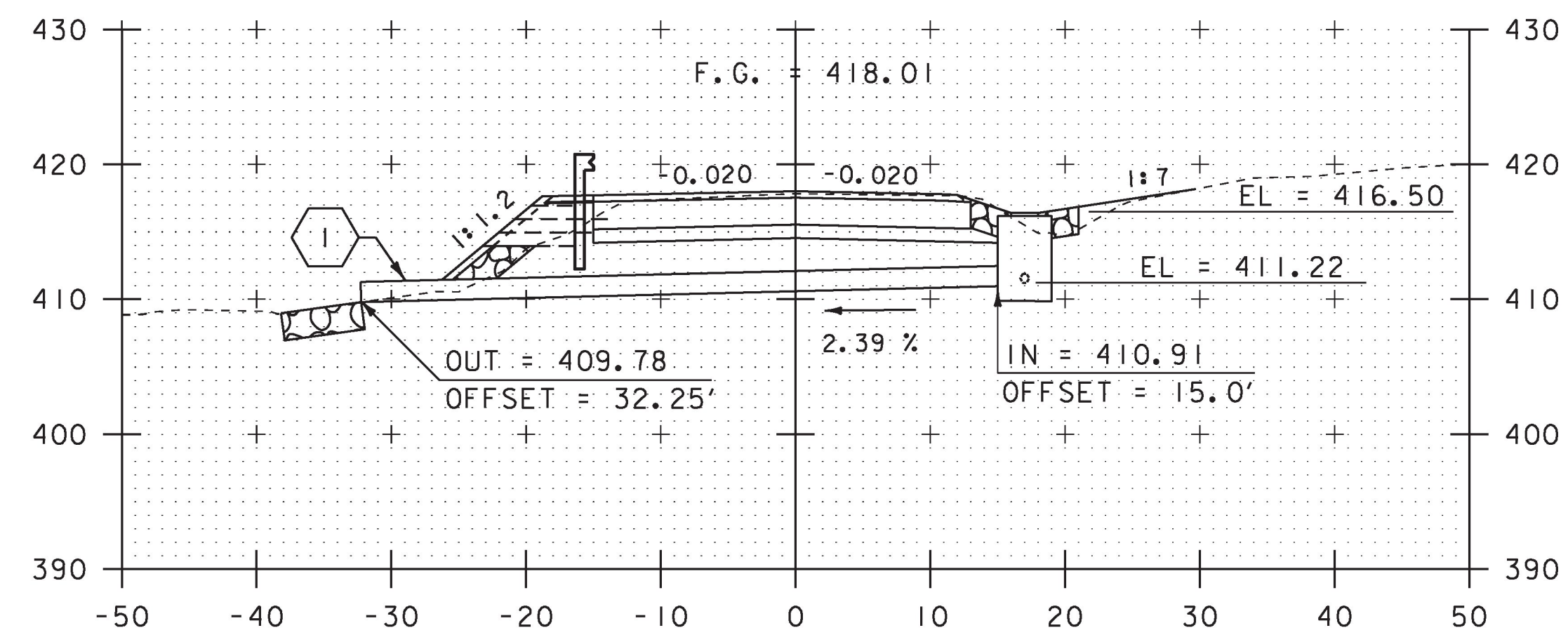


281+50

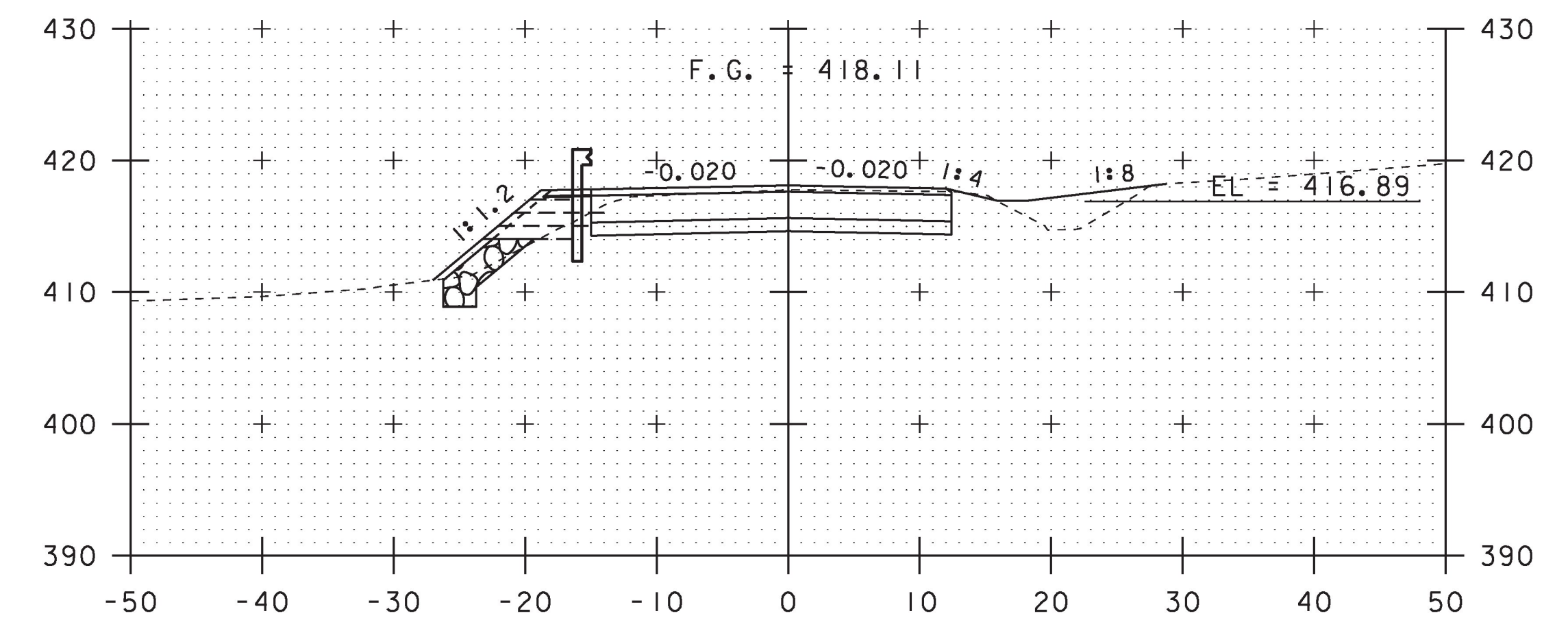
PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048wrk	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 4	SHEET 40 OF 48

STA. 280+50 TO STA. 282+00

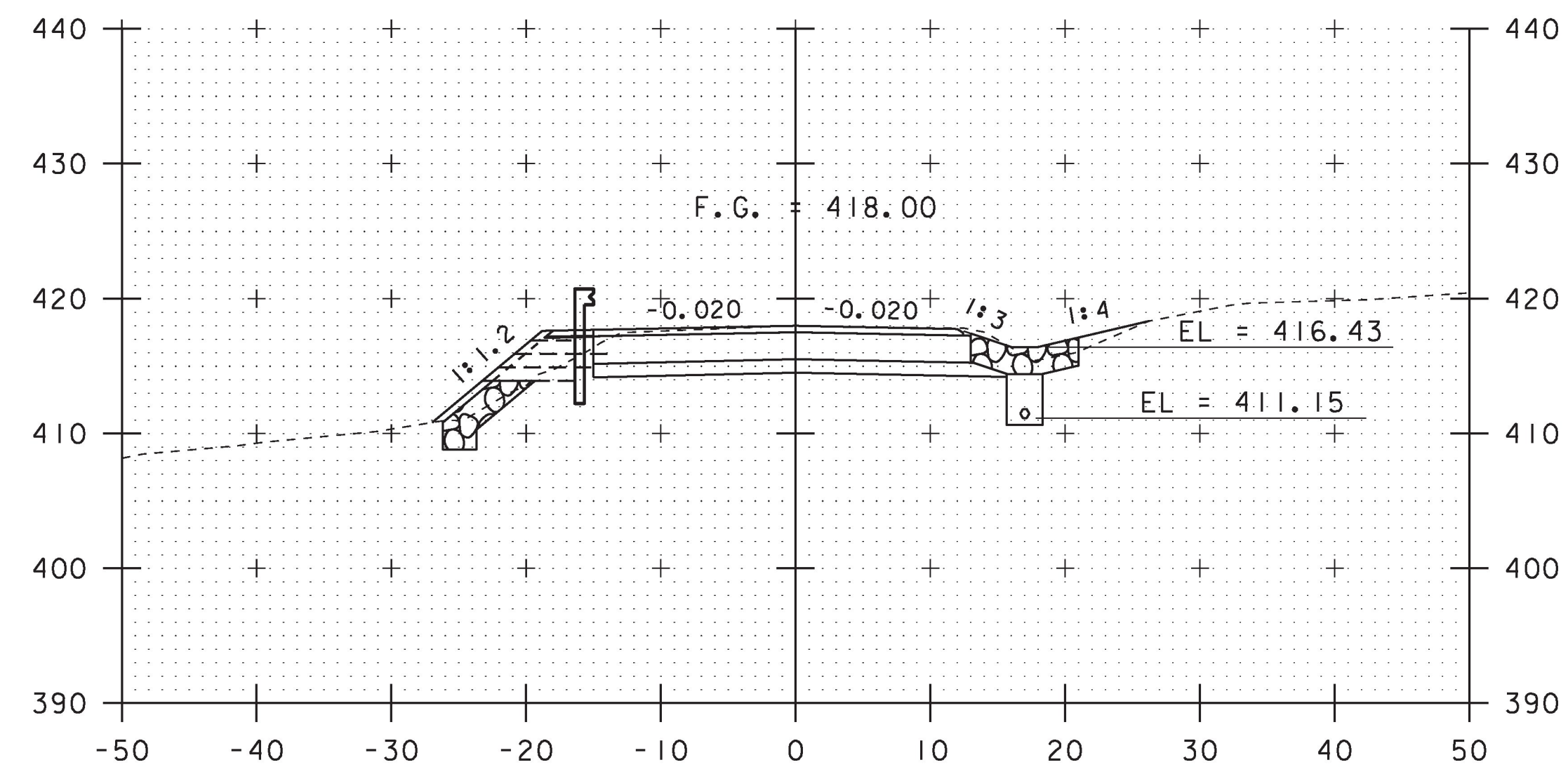




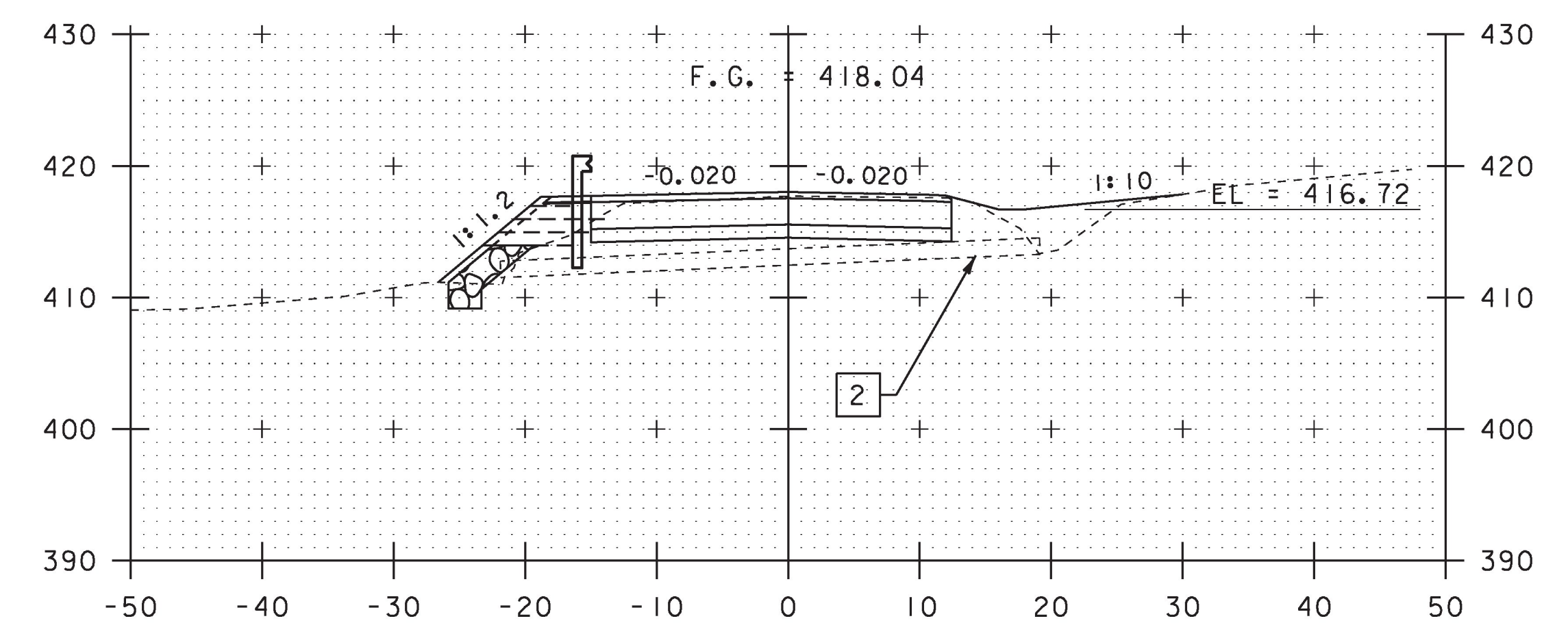
282+70



283+00  
END PROJECT STP 015-2(9)  
BEGIN APPROACH



282+50

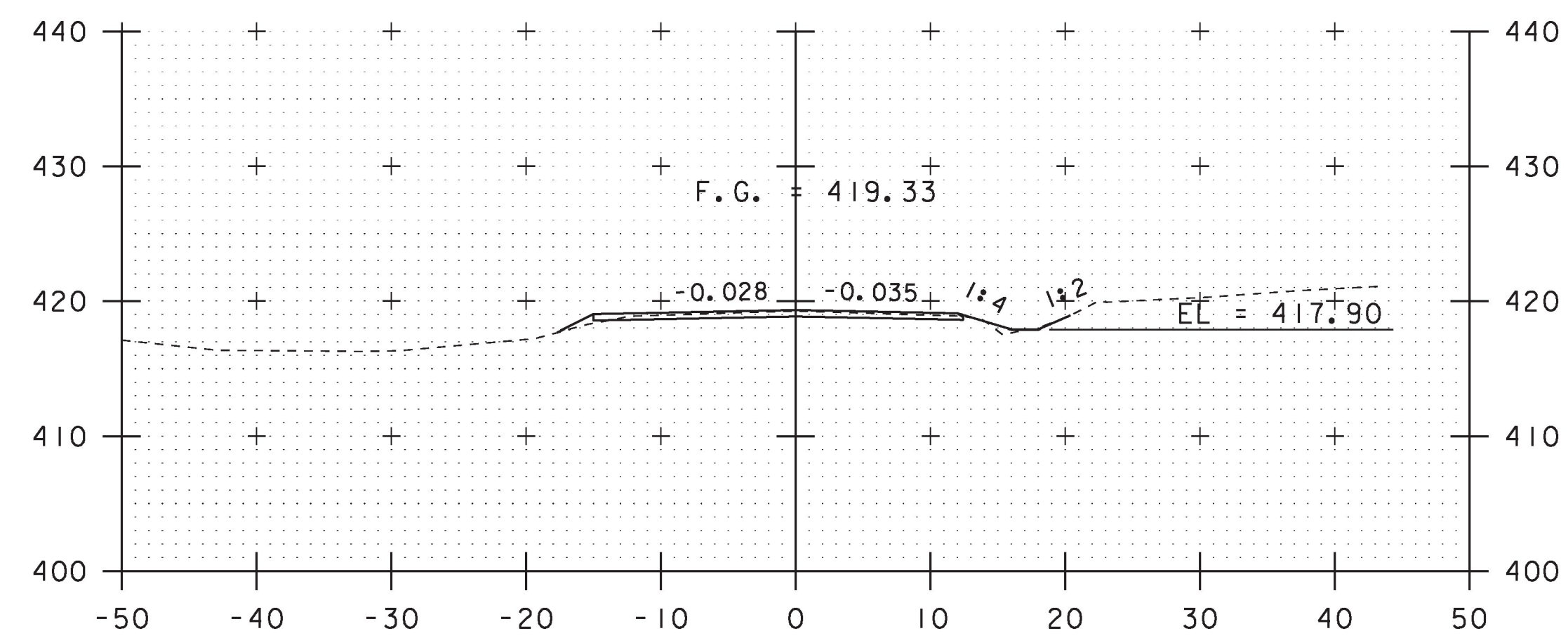


282+83

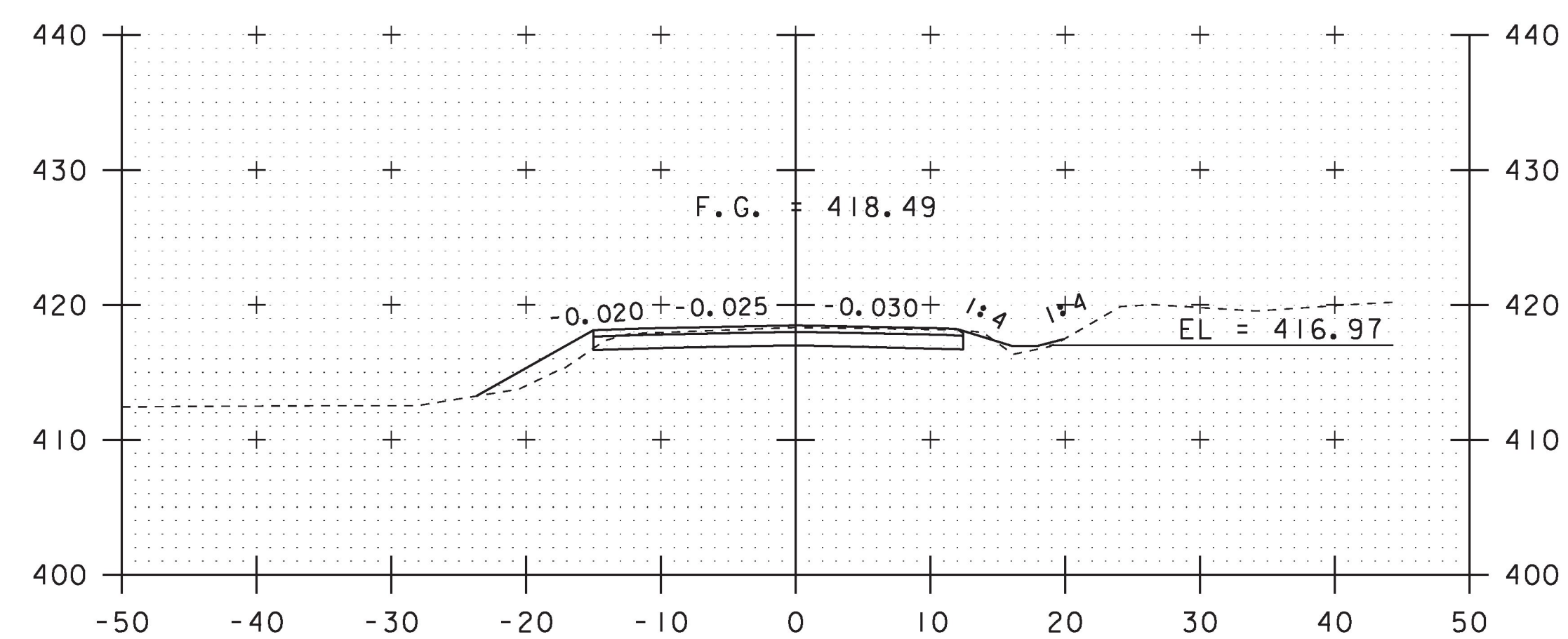
PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048wrk	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 5	SHEET 41 OF 48

STA. 282+50 TO STA. 283+00

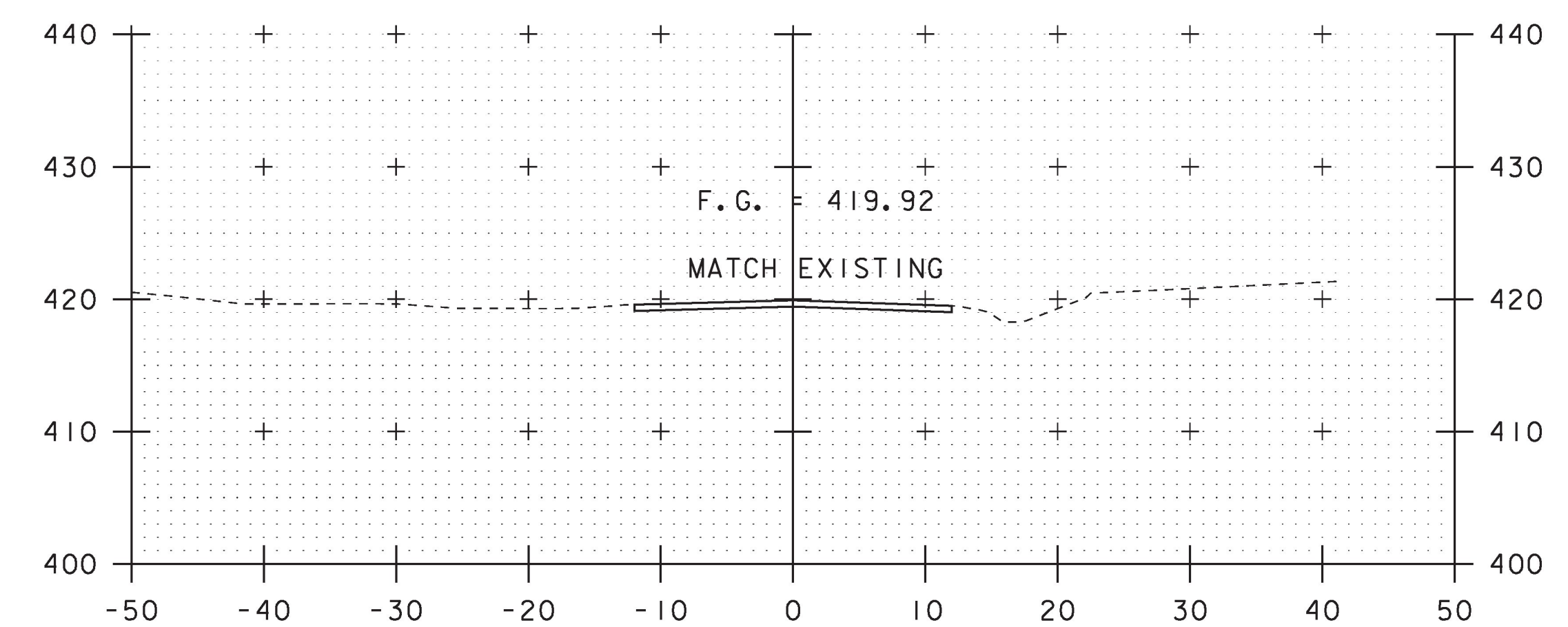




284+00



283+50



284+25  
END APPROACH  
END COLD PLANE

PROJECT NAME: POULTNEY	
PROJECT NUMBER: STP 015-2(9)	
FILE NAME: d11b048wrk	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 6	SHEET 42 OF 48

STA. 283+50 TO STA. 284+25



NOTES

1. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT. THE MESSAGE SIGNS SHALL BE PLACED TWO WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY TO WARN THE TRAVELING PUBLIC OF THE PROJECT. THE MESSAGE SIGNS SHALL BE REMOVED OR DEPLOYED TO LOCATIONS SPECIFIED BY THE ENGINEER ONCE CONSTRUCTION HAS BEGUN. PAYMENT FOR THIS WORK SHALL BE MADE UNDER CONTRACT ITEM 641.15 PORTABLE CHANGEABLE MESSAGE SIGN.
2. TEMPORARY TRAFFIC SIGNALS SHALL BE USED FOR THE WORK ZONE AS INDICATED IN THE TRAFFIC CONTROL PLANS, CONTRACT DOCUMENTS AND PAID FOR UNDER CONTRACT ITEM 900.620 SPECIAL PROVISION (TEMPORARY TRAFFIC SIGNAL SYSTEM, PORTABLE).
3. ALL TEMPORARY SIGNAL EQUIPMENT SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR MAINTENANCE DURING THE PROJECT AND THE REMOVAL OF THE TEMPORARY SIGNAL EQUIPMENT. PAYMENT FOR THIS WORK WILL BE PAID UNDER CONTRACT ITEM 900.620 SPECIAL PROVISION (TEMPORARY TRAFFIC SIGNAL SYSTEM, PORTABLE).

V	T		R	T		3	0
R	O	A	D	W	O	R	K
A	H	E	A	D			

PHASE 1

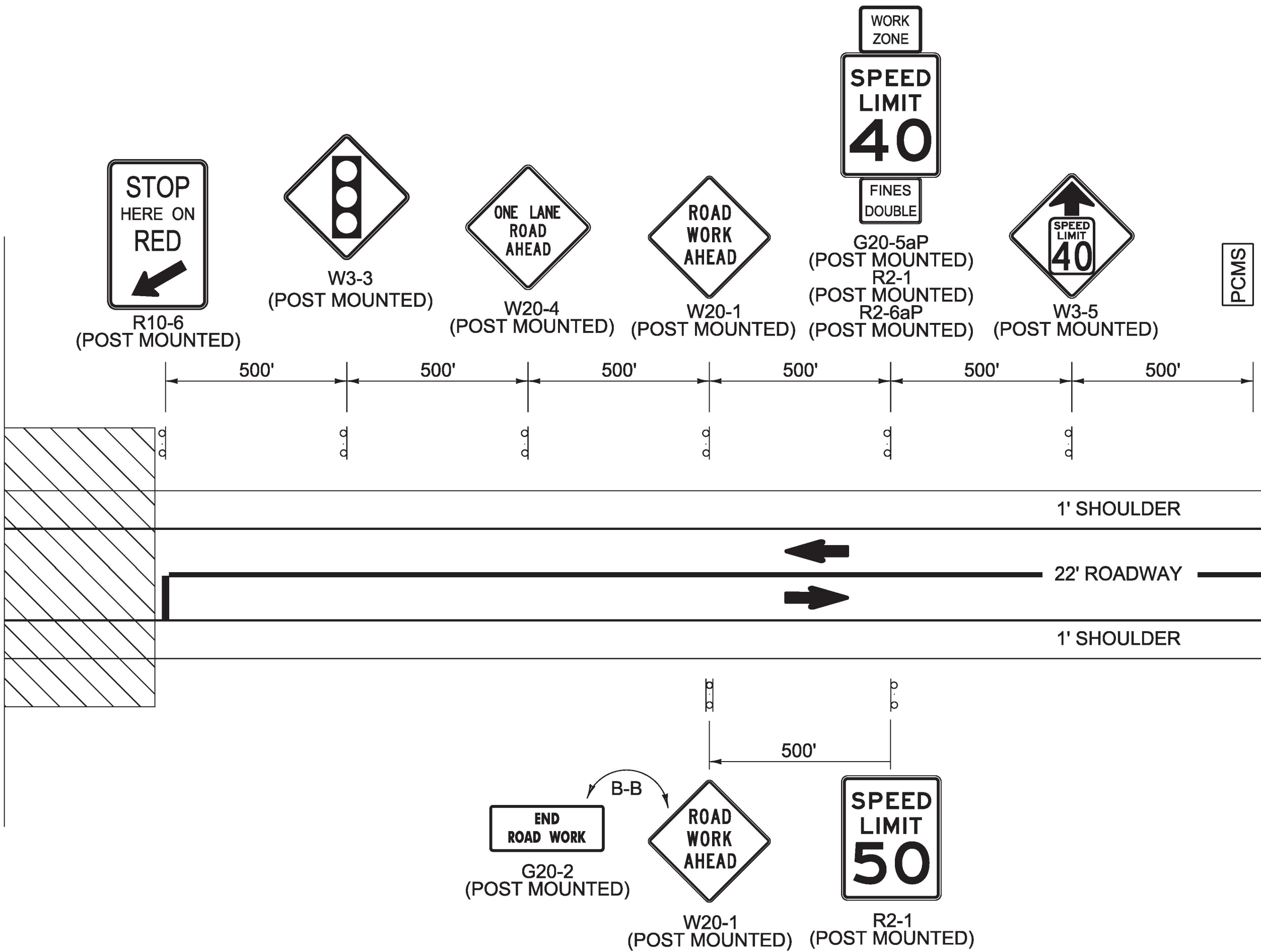
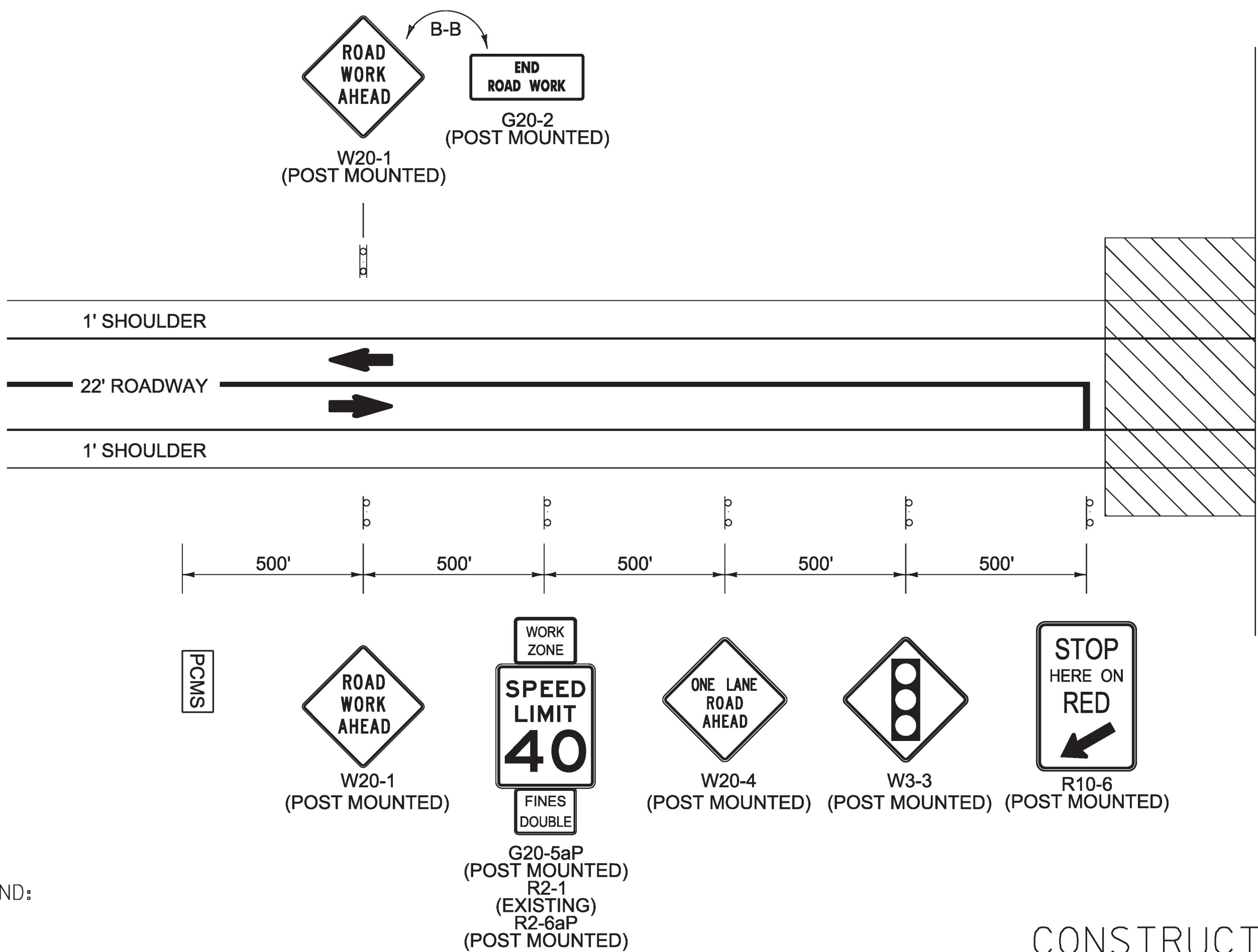
*	M	M	M		D	D	
	T	O					
	M	M	M		D	D	

PHASE 2

* M=MONTH  
D=DAY

NOTE: MONTH SHALL BE SPELLED OUT IN FULL OR ABBREVIATED AS NEEDED. EXAMPLE: JULY 20, NOT 07/20

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



CONSTRUCTION APPROACH SIGNAGE

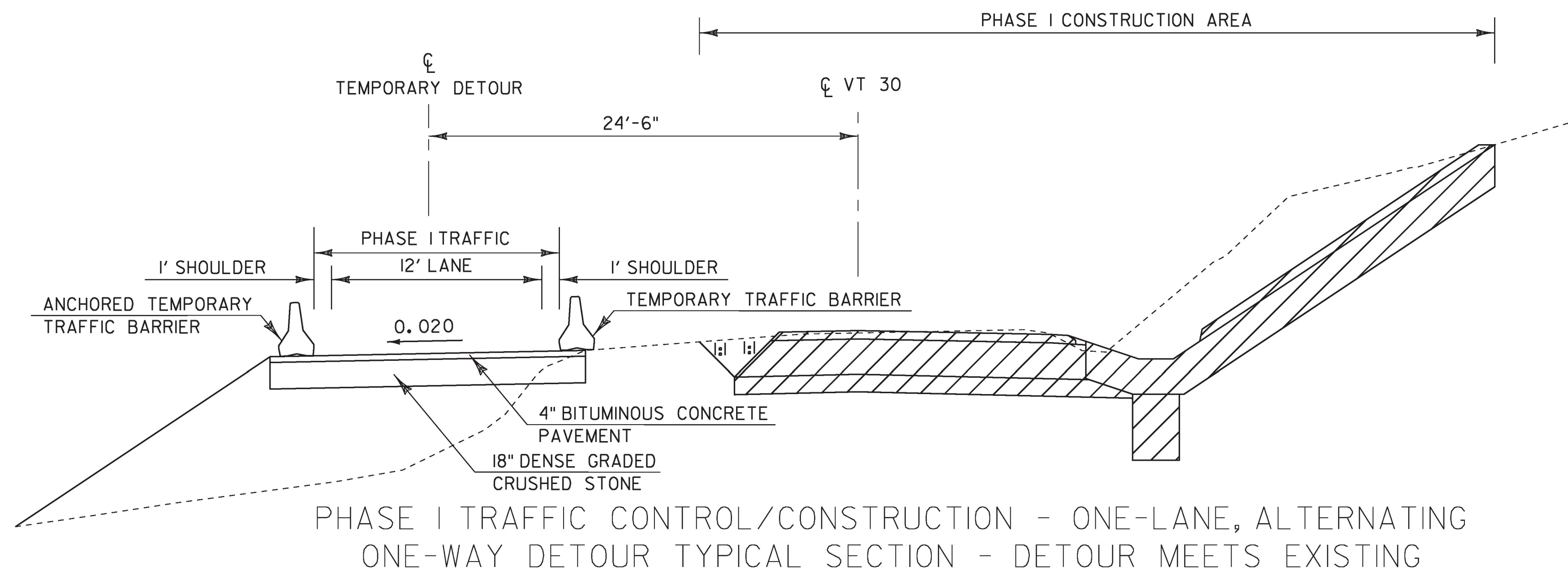
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PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME: dlib048frm.dgn	PLOT DATE: 23-AUG-2018
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CONSTRUCTION APPROACH SIGNING SHEET 1	SHEET 43 OF 48

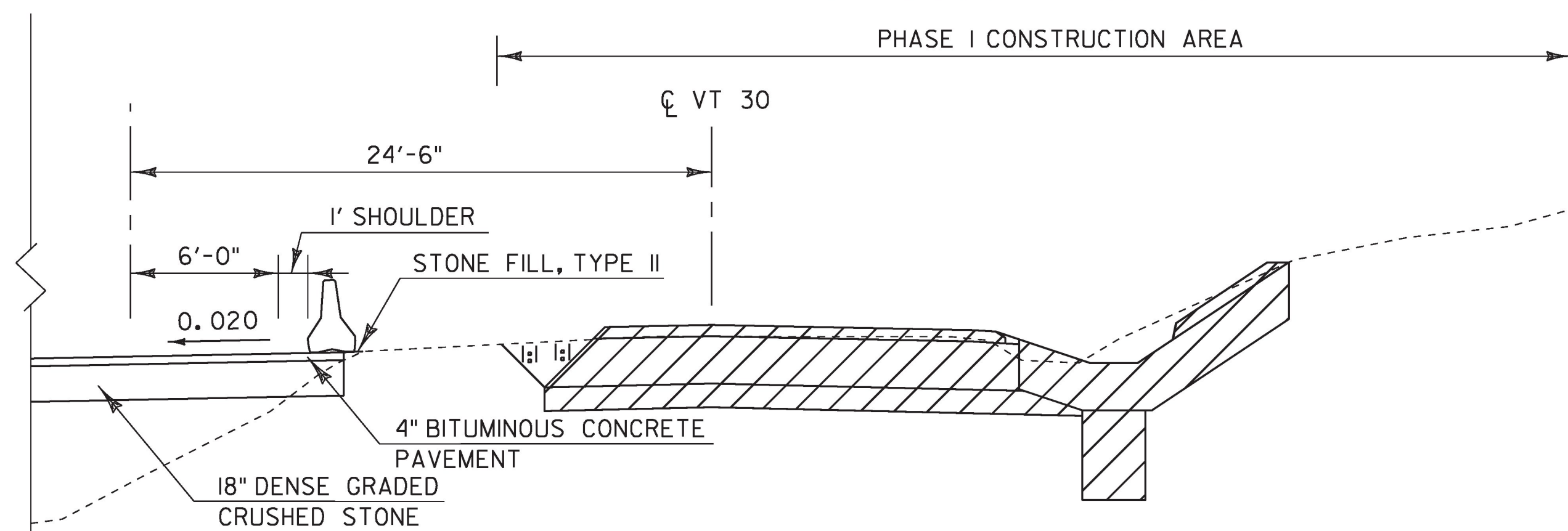


## GENERAL TRAFFIC CONTROL NOTES

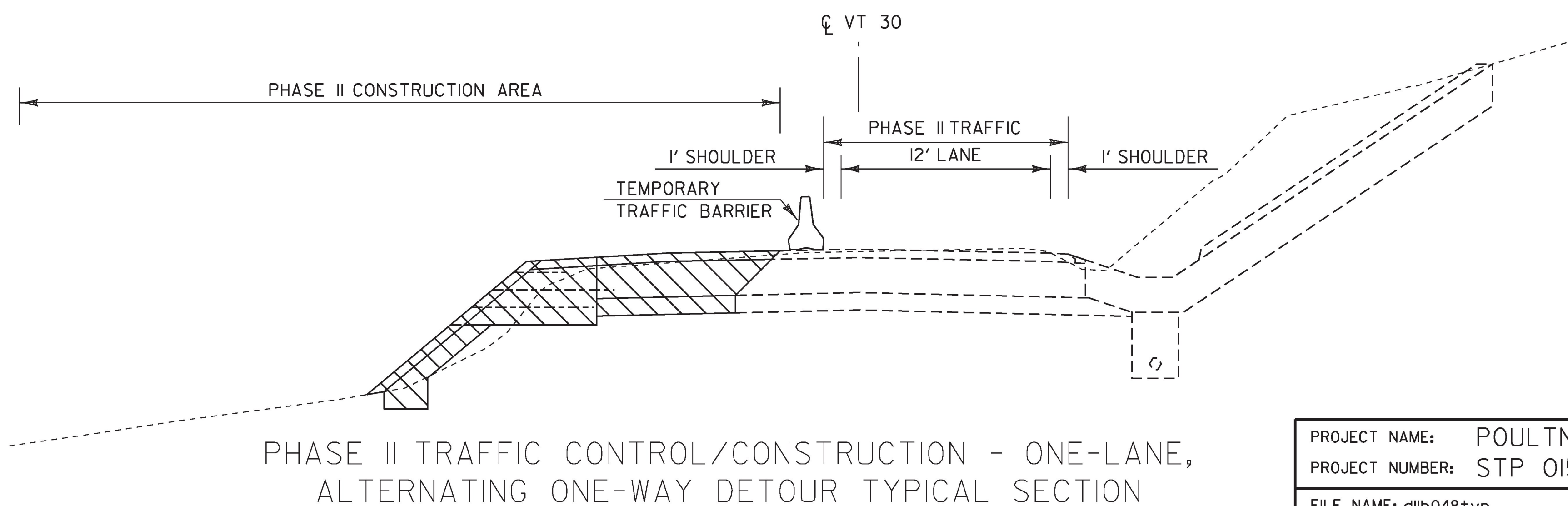
1. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT VTRANS T-SERIES STANDARDS AND THE CURRENT MUTCD AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE PROJECT MANAGER FOR REVIEW 30 DAYS PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITY. THE PLAN SHALL INCLUDE PROVISIONS FOR IMPLEMENTATION AND MAINTENANCE OF TRAFFIC CONTROL FOR ALL WORK ASSOCIATED WITH THIS PROJECT. UPON WRITTEN ACCEPTANCE FROM THE ENGINEER, THE CONTRACTOR SHALL IMPLEMENT THE TRAFFIC CONTROL PLAN AND COMMENCE CONSTRUCTION ACTIVITIES. ALL COSTS ASSOCIATED WITH THE DEVELOPMENT AND ANY NECESSARY REVISION OF A TRAFFIC CONTROL PLAN SHALL BE PAID FOR UNDER CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
3. THE TRAFFIC CONTROL PLANS SHOWN HEREIN ARE APPROXIMATE AND INTENDED TO BE UTILIZED IN CONJUNCTION WITH APPLICABLE VTRANS STANDARD DRAWINGS AND AT THE DISCRETION OF THE ENGINEER.
4. THE BID PRICE FOR ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE) WILL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, TEMPORARY ROADWAY WIDENING FOR DETOUR, SUITABLE FILL, DENSE GRADED CRUSHED STONE, BITUMINOUS CONCRETE PAVEMENT, ALL TEMPORARY MARKINGS IN THE DETOUR, SAWCUTS, TEMPORARY DRAINAGE, AND PIPE EXTENSIONS. TRAFFIC BARRIER, REMOVING AND RESETTING TEMPORARY TRAFFIC BARRIER, ENERGY ABSORPTION ATTENUATORS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL INSTALLATION, MAINTENANCE, ADJUSTING, RELOCATING AND REMOVAL OF THESE ITEMS AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.
5. ALL SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE CLEANED BIWEEKLY OR AS DIRECTED BY THE ENGINEER. COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
6. EXISTING PERMANENT SIGNS THAT CONTRADICT TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE REMOVED AND REPLACED OR COVERED FOR THE PERIOD OF TIME THAT THE TRAFFIC CONTROL PLAN IS IMPLEMENTED. TREES AND SHRUBS WITHIN THE EXISTING RIGHT-OF-WAY AND OTHERWISE INTERFERING WITH VISIBILITY OF THE PROPOSED CONSTRUCTION SIGNS SHALL BE TRIMMED ACCORDINGLY. PROJECT APPROACH SIGNAGE SHALL BE IN PLACE BEFORE ANY CONSTRUCTION WORK BEGINS. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
7. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ENSURE THAT OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, TRAFFIC CONTROL DEVICES, ETC. DO NOT ENCROACH INTO THE BICYCLE PATH OF TRAVEL. THE CONTRACTOR SHALL ENSURE THAT CYCLISTS' ROUTES ARE FREE OF RUTS, SAND, MUD AND DEBRIS TO PREVENT CYCLISTS' CRASHES. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
8. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ENSURE REASONABLE PEDESTRIAN TRAVEL AT ALL TIMES. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
9. THE CONTRACTOR IS NOTIFIED THAT ALL ROADWAYS INCLUDED IN AND ASSOCIATED WITH THIS PROJECT ARE SUBJECT TO OCCASIONAL USE AND TRAVEL BY EMERGENCY RESPONSE VEHICLES. THE CONTRACTOR SHALL MAKE AND IMPLEMENT PLANS AND PROCEDURES DESIGNED TO ENSURE UNIMPEDED TRAVEL OF EMERGENCY RESPONSE VEHICLES THROUGH CONSTRUCTION ZONES AND SHALL SUBMIT THEM TO THE ENGINEER. ANY COSTS ASSOCIATED WITH SUCH PLANS AND PROCEDURES SHALL BE INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
10. IMPACT ATTENUATORS SHALL BE PROVIDED TO PROTECT BARRIER ENDS AT ALL BARRIER END LOCATIONS. THESE ARE INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL - ALL-INCLUSIVE).



NOT TO SCALE  
STA 277+75 - STA 278+50  
STA 279+75 - STA 281+00  
STA 282+65 - STA 283+50



NOT TO SCALE  
STA 278+50 - STA 279+75  
STA 281+00 - STA 282+65



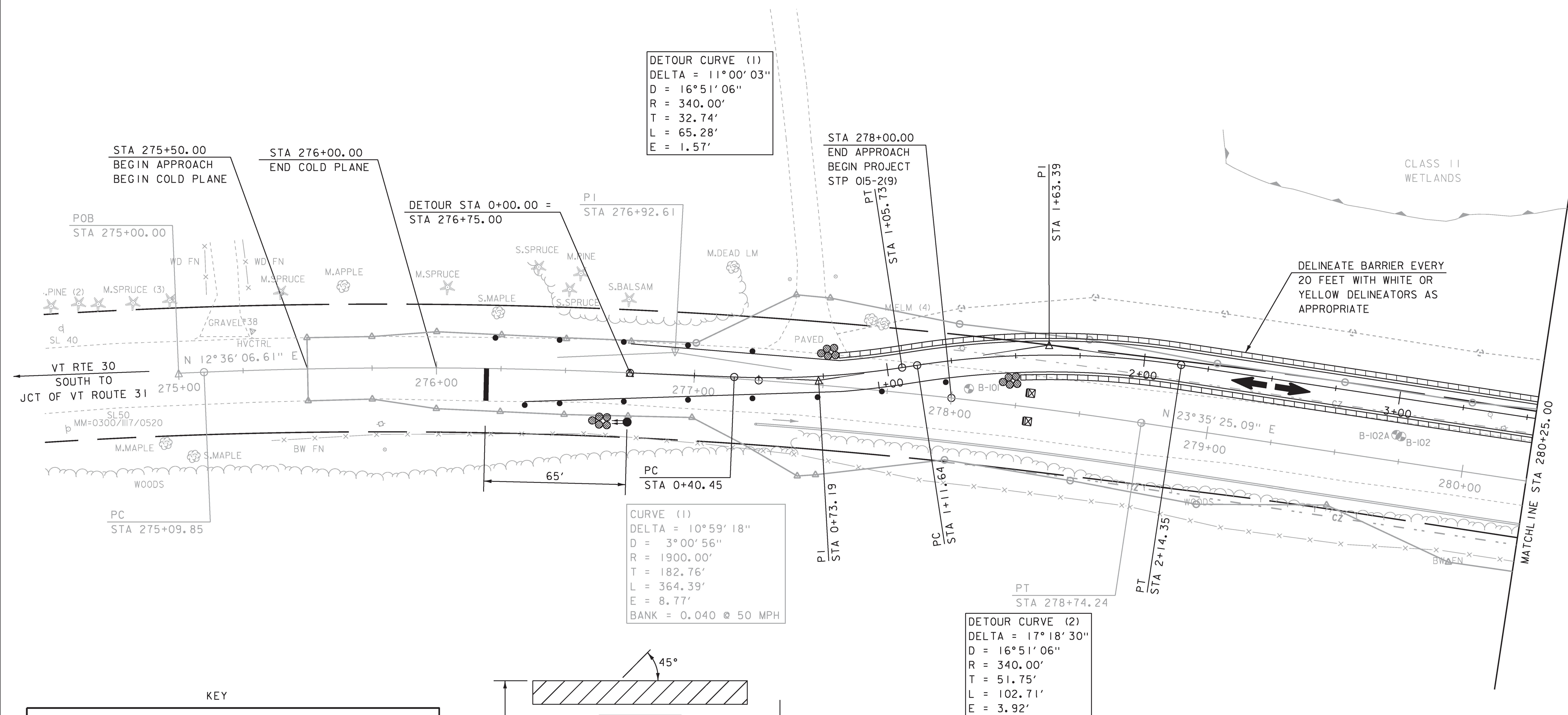
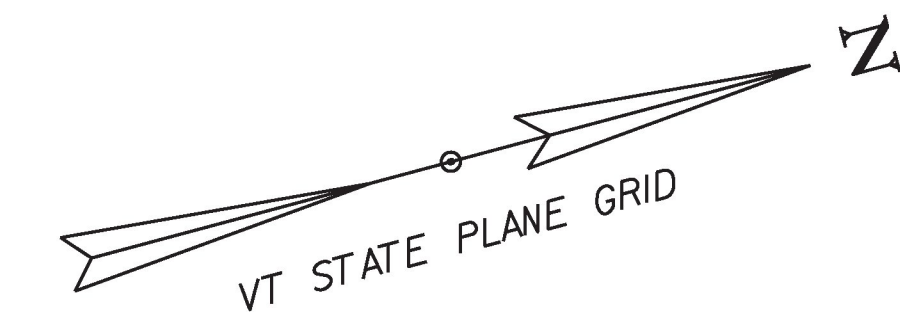
NOT TO SCALE  
STA 277+75 - STA 283+50

PROJECT NAME: POULTNEY  
PROJECT NUMBER: STP 015-2(9)

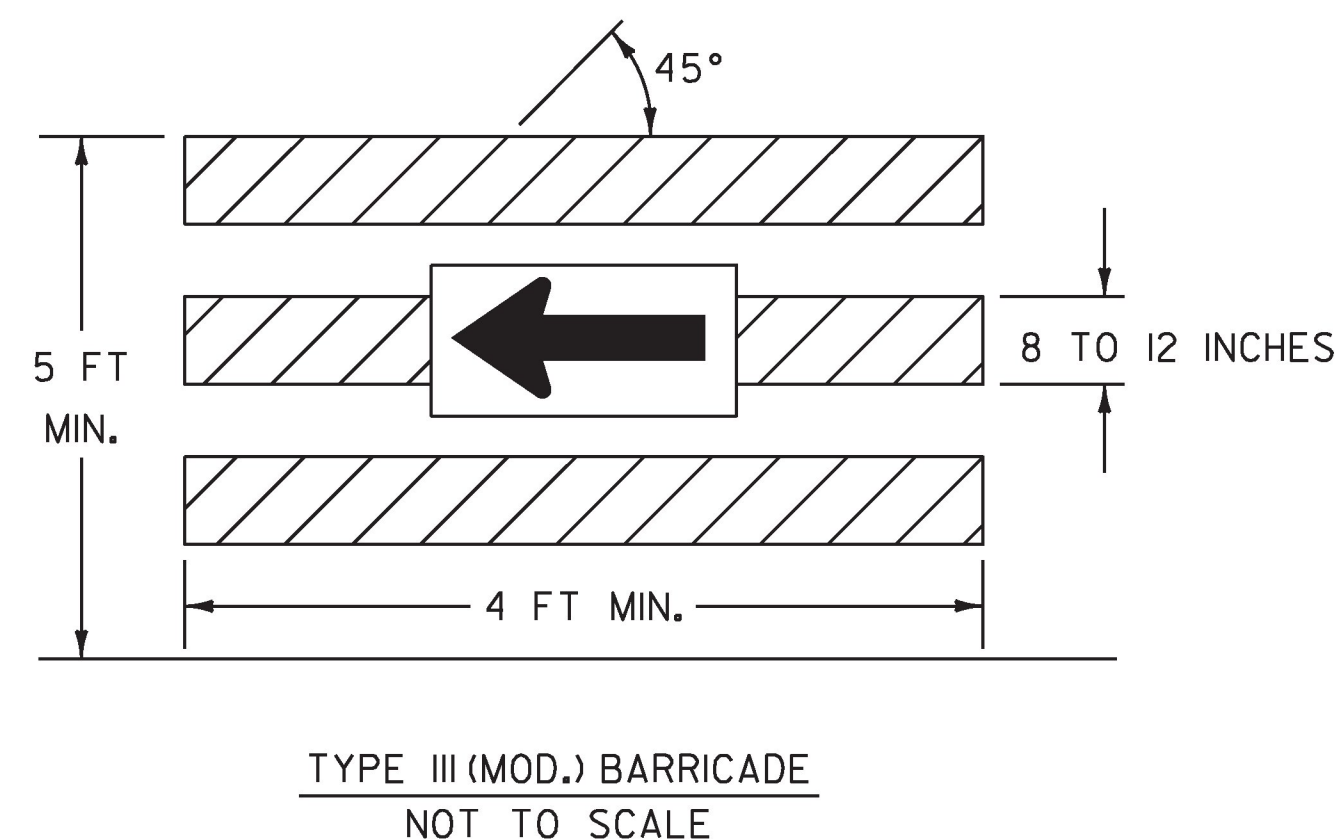
FILE NAME: d11b048.typ  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: S. ZWICK  
TRAFFIC CONTROL TYP SECTION & NOTES

PLOT DATE: 23-AUG-2018  
DRAWN BY: S. ZWICK  
CHECKED BY: C. LEACH  
SHEET 44 OF 48



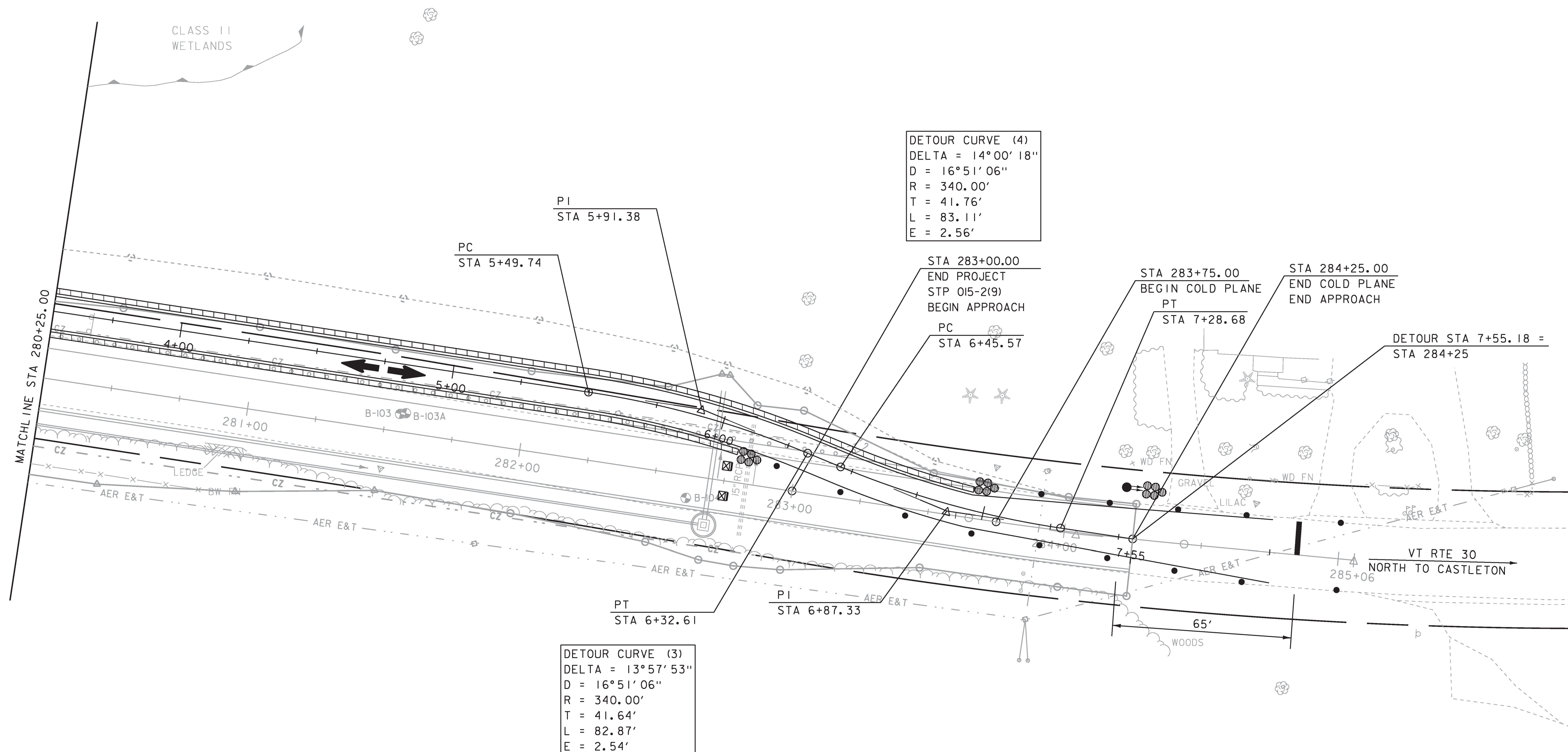
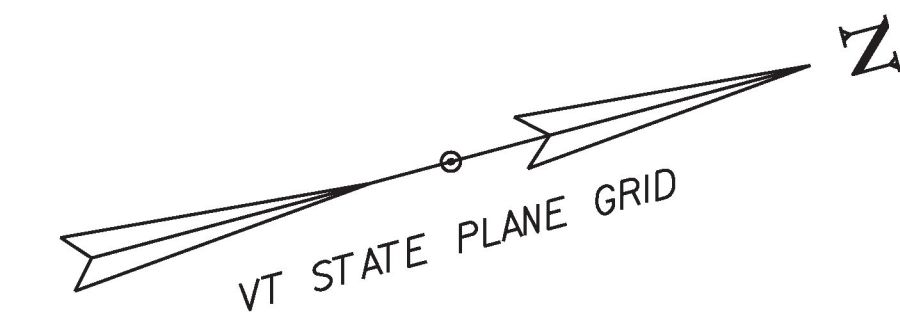


KEY	
	TEMPORARY ONE-LANE, TWO-WAY TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	CRASH ATTENUATOR
	RETROREFLECTIVE TRAFFIC DRUM
	TEMPORARY TRAFFIC SIGNAL
	TYPE III (MOD.) BARRICADE
	24" STOP BAR



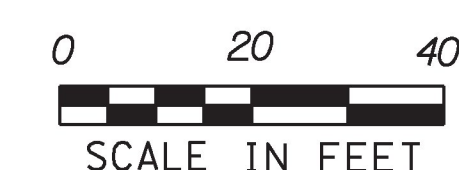
PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	dlib048bdr
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
PHASE I TRAFFIC CONTROL LAYOUT SHEET I	SHEET 45 OF 48
PLOT DATE:	23-AUG-2018
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH





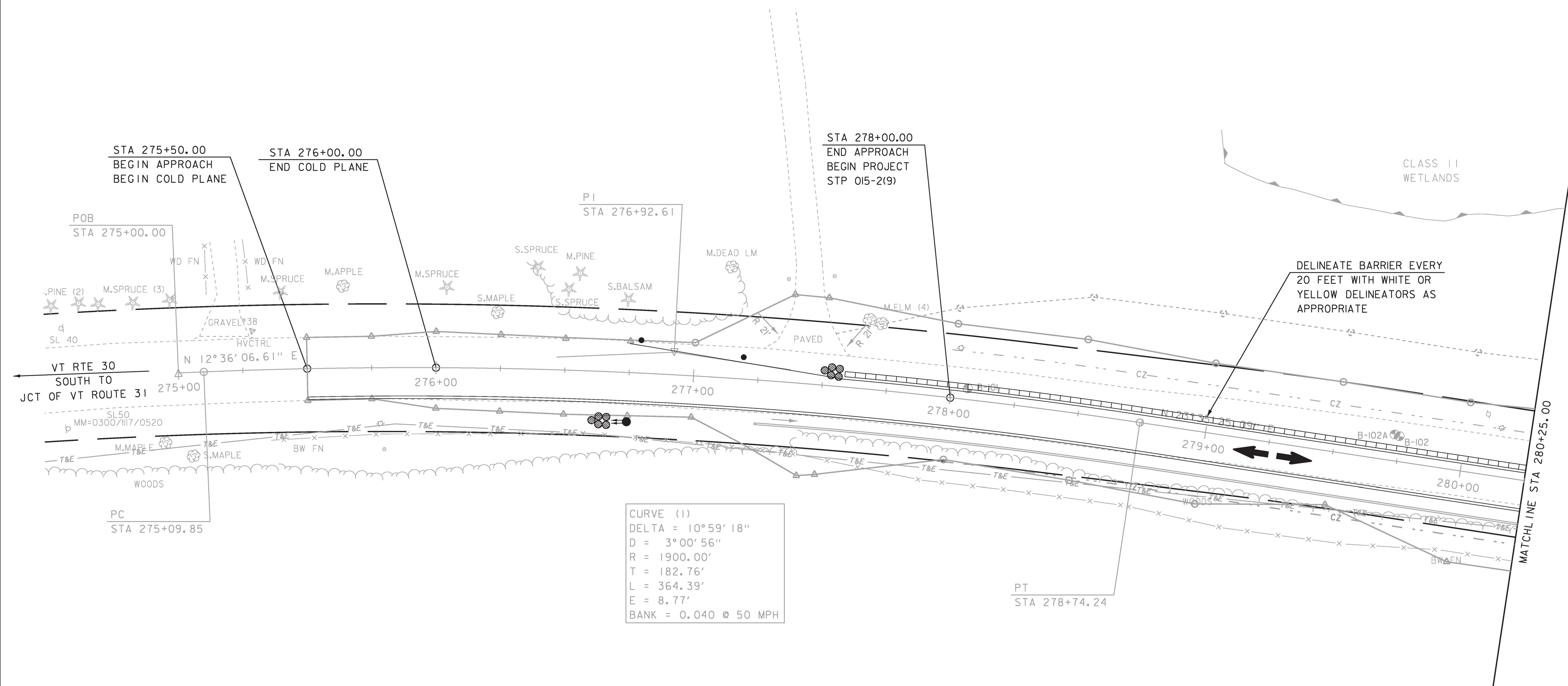
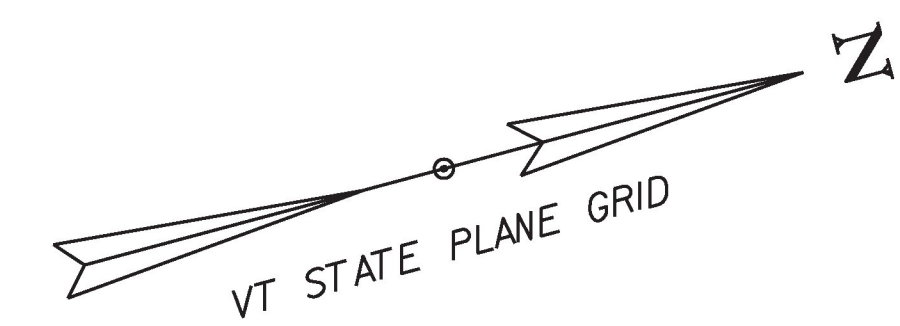
KEY

	TEMPORARY ONE-LANE, TWO-WAY TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	CRASH ATTENUATOR
	RETROREFLECTIVE TRAFFIC DRUM
	TEMPORARY TRAFFIC SIGNAL
	TYPE III (MOD.) BARRICADE
	24" STOP BAR



PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	d1lb048bdr
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
PHASE I TRAFFIC CONTROL LAYOUT SHEET 2	SHEET 46 OF 48
PLOT DATE:	23-AUG-2018
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH



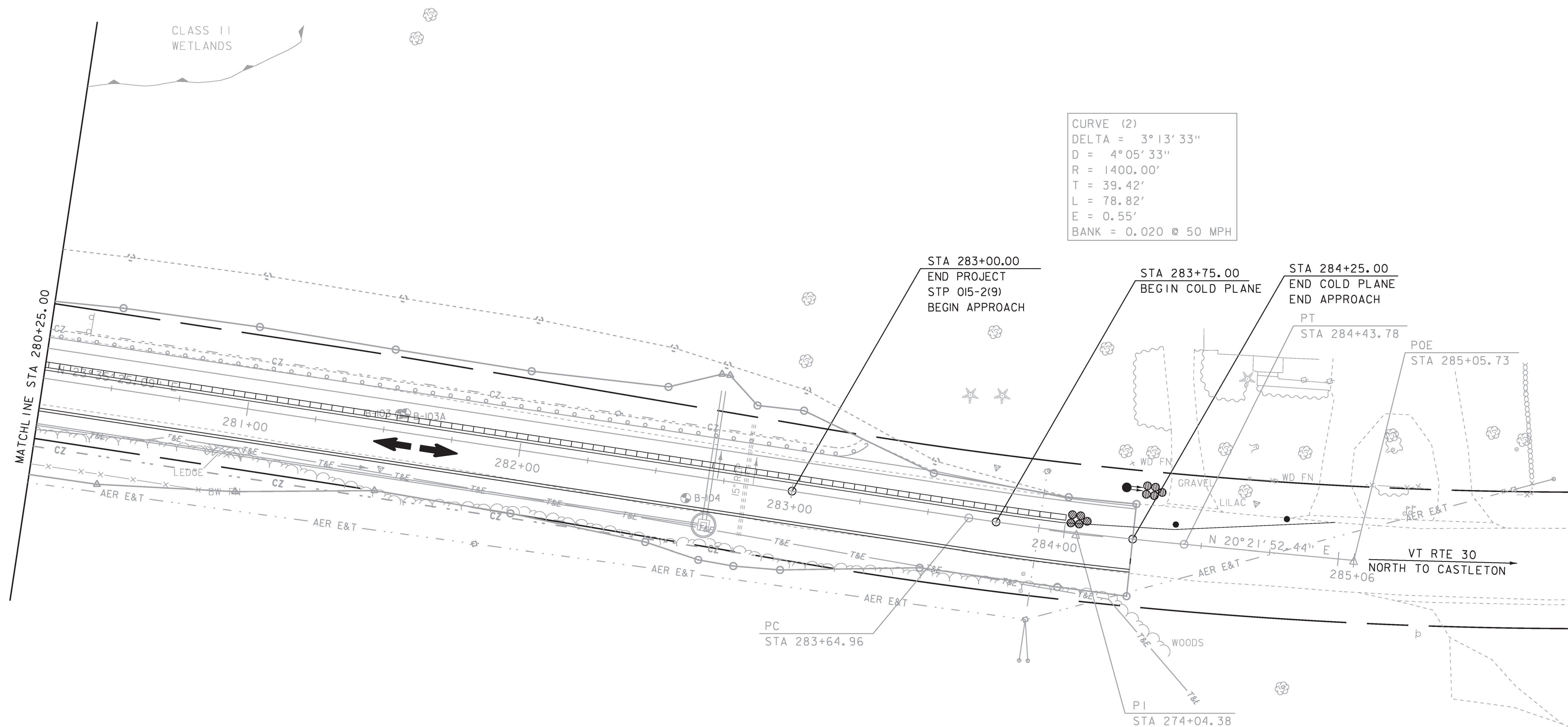
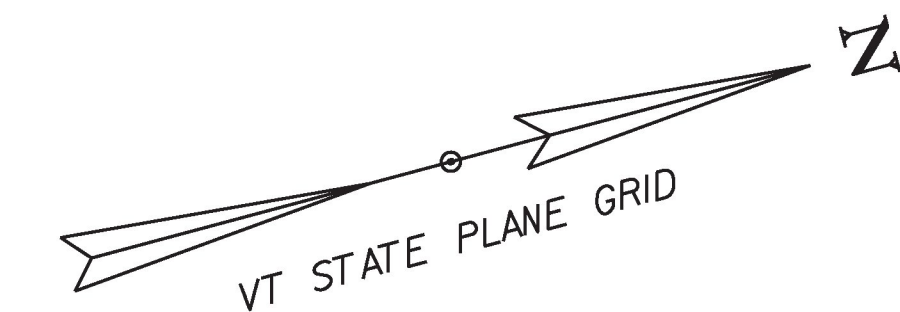


KEY

	TEMPORARY ONE-LANE, TWO-WAY TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	CRASH ATTENUATOR
	RETROREFLECTIVE TRAFFIC DRUM
	TEMPORARY TRAFFIC SIGNAL
	TYPE III (MOD.) BARRICADE
	24" STOP BAR

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	d11b048bdr
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
PHASE II TRAFFIC CONTROL LAYOUT SHEET I	SHEET 47 OF 48
PLOT DATE:	23-AUG-2018
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH





CURVE (2)  
DELTA = 3°13'33"  
D = 4°05'33"  
R = 1400.00'  
T = 39.42'  
L = 78.82'  
E = 0.55'  
BANK = 0.020 @ 50 MPH

KEY

	TEMPORARY ONE-LANE, TWO-WAY TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	CRASH ATTENUATOR
	RETROREFLECTIVE TRAFFIC DRUM
	TEMPORARY TRAFFIC SIGNAL
	TYPE III (MOD.) BARRICADE
	24" STOP BAR

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	STP 015-2(9)
FILE NAME:	d11b048bdr
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
PHASE II TRAFFIC CONTROL LAYOUT SHEET 2	SHEET 48 OF 48
PLOT DATE:	23-AUG-2018
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH