

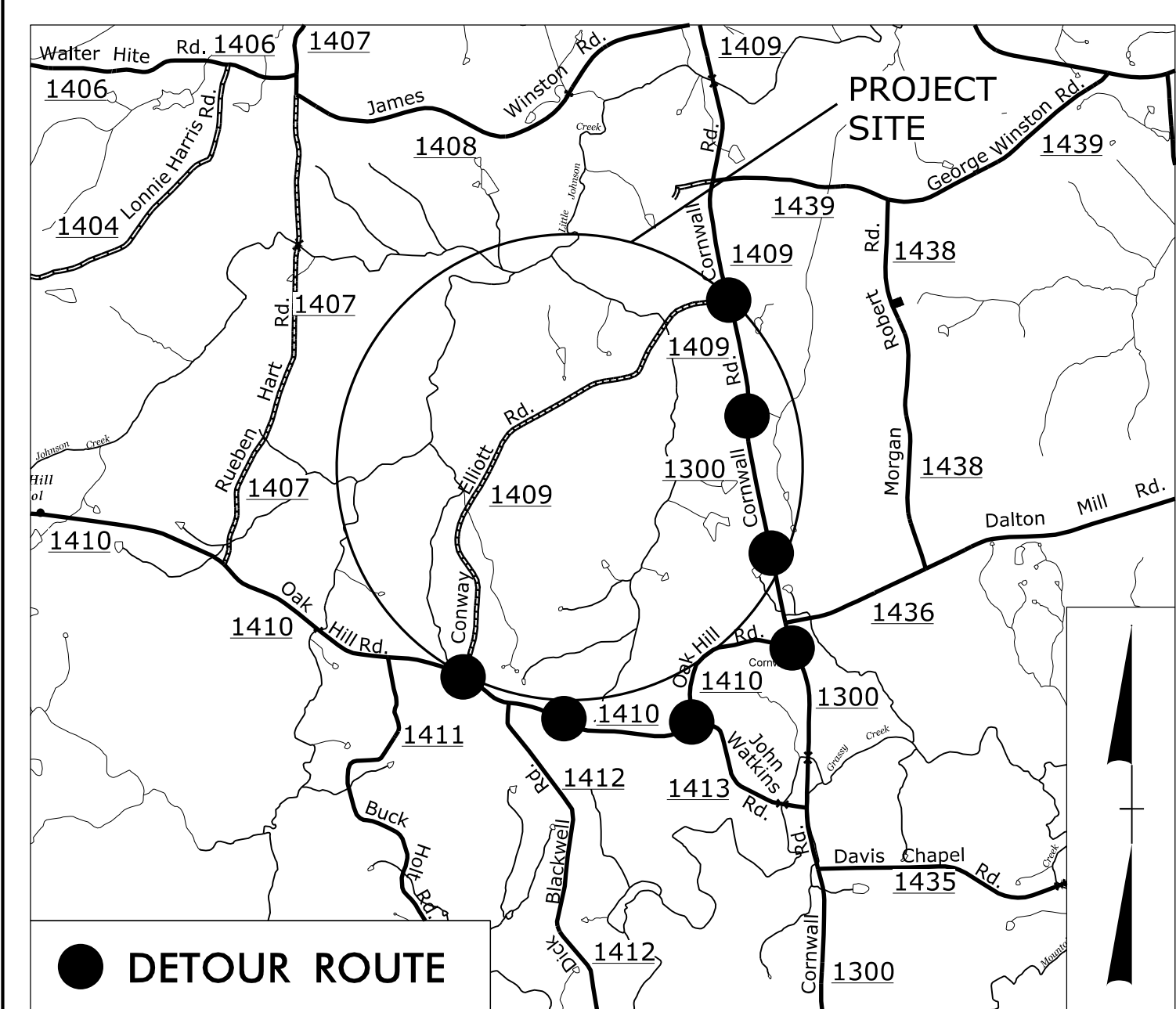
**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

09/28/2011

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



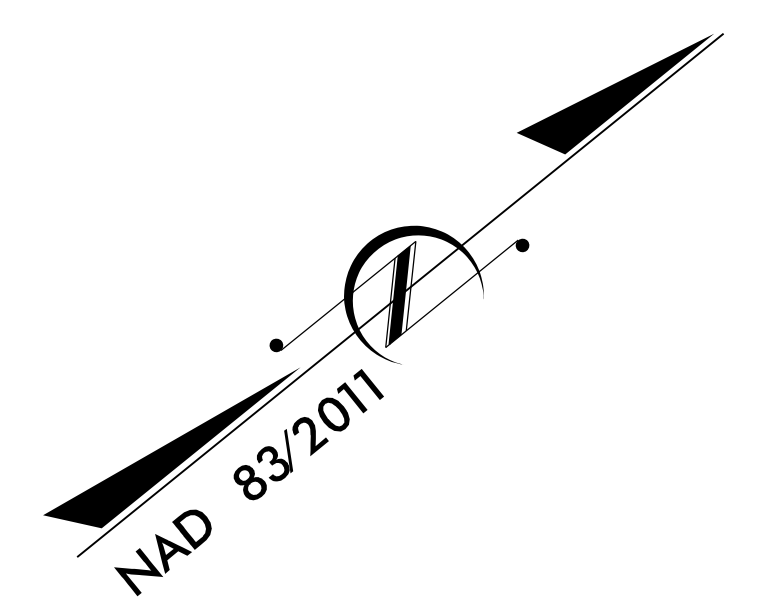
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
GRANVILLE COUNTY

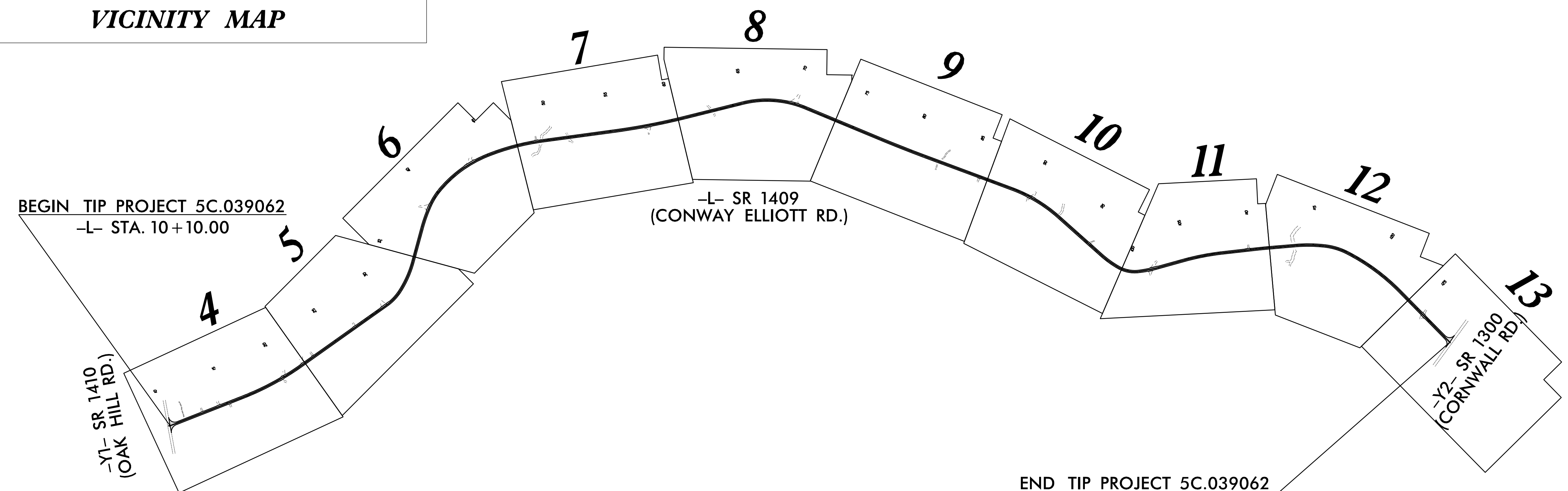
LOCATION: CONWAY ELLIOTT RD (SR 1409) FROM OAK HILL RD (SR 1410)
TO CORNWALL RD (SR 1300).

TYPE OF WORK: GRADING, DRAINAGE & PAVING.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	5C.039062	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
5C.039062	NA	PE	



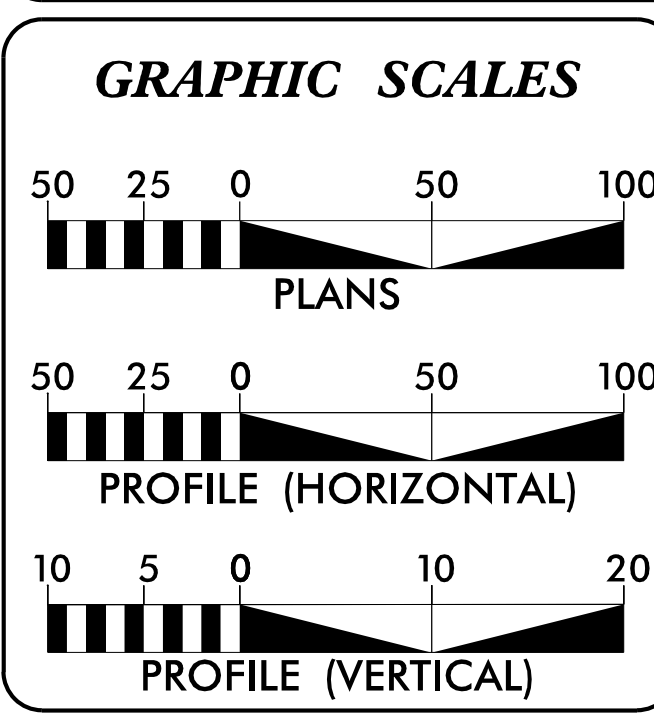
PROJECT: 5C.039062



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
DESIGN ELEMENTS NOT MEETING DESIGN SPEED (HORIZONTAL AND VERTICAL CURVES AND STOPPING SIGHT DISTANCE) WILL NEED TO BE REVIEWED AND COORDINATED WITH THE DIVISION TRAFFIC ENGINEER UPON COMPLETION OF CONSTRUCTION TO DETERMINE WHAT MEASURES ARE AVAILABLE TO MITIGATE THE SUBSTANDARD DESIGN ELEMENTS. ANY SIGNING OR OTHER DEVICES DEEMED NECESSARY SHALL BE INSTALLED BY THE CONTRACTOR AND PAID FOR BY THE DEPARTMENT.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

V = 60 MPH
FUNC CLASS = LOCAL

PROJECT LENGTH

LENGTH ROADWAY PROJECT = 2.246 MILES
TOTAL LENGTH PROJECT = 2.246 MILES

NCDOT CONTACT: JOHN E. SANDOR, PE
DISTRICT ENGINEER (DISTRICT 2)

Prepared in the Office of:

320 Executive Ct.
Hillsborough, NC 27278-8551
Voice: (919) 732-3883
Fax: (919) 732-6776
www.summitde.net

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: REID ELMORE
PROJECT MANAGER

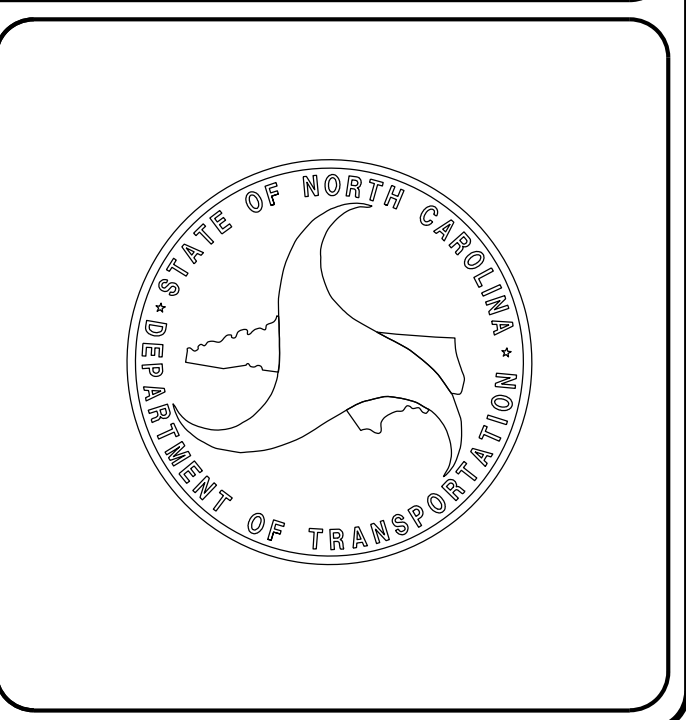
LETTING DATE: BRANDON W. JOHNSON, PE
PROJECT ENGINEER
JULY 2022

HYDRAULICS ENGINEER
7/8/2022

DocuSigned by:
Patrick Hartnett
SIGNATURE:

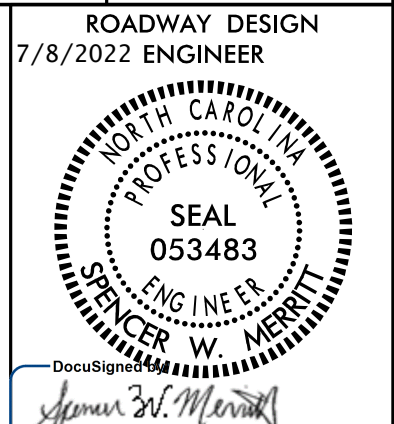
ROADWAY DESIGN ENGINEER
7/8/2022

DocuSigned by:
Brandon W. Johnson
SIGNATURE:



8/17/99

PROJECT REFERENCE NO.	SHEET NO.
5C.039062	1A



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES AND PAVEMENT MARKING DETAILS
3D-1	DRAINAGE SUMMARIES
4 THRU 13	PLAN SHEETS
14 THRU 18	PROFILE SHEETS
RW-1	SURVEY CONTROL SHEET
EC-1 THRU EC-23	EROSION CONTROL PLANS
X-1 THRU X-45	CROSS-SECTIONS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

**GRADE LINE:
GRADING AND SURFACING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

UTILITIES:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

TRAFFIC CONTROL:

TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 NCDOT STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH NCDOT WITH ANY LANE CLOSURES AND OFFSITE DETOURS. TRAFFIC CONTROL SHALL BE PAID LUMP SUM.

PAVEMENT MARKINGS:

PAVEMENT MARKINGS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE TO THE 2018 NCDOT STANDARDS AND SPECIFICATIONS. SEE INSET DETAILS ON SHEET 3B-1 FOR GUIDANCE OR AS DIRECTED BY ENGINEER.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
862.01	Guardrail Placement
862.02	Guardrail Installation
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
Known Contamination Area: Soil	☠-s-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
Contaminated Site: Known or Potential	☠?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	----- R/W
New Right of Way Line with Pin and Cap	----- R/W ◆
New Right of Way Line with Concrete or Granite R/W Marker	----- R/W ◆
New Control of Access Line with Concrete C/A Marker	----- R/W
Existing Control of Access	----- C/A
New Control of Access	----- C/A
Existing Easement Line	----- E
New Temporary Construction Easement	----- E
New Temporary Drainage Easement	----- TDE
New Permanent Drainage Easement	----- PDE
New Permanent Drainage / Utility Easement	----- DUE
New Permanent Utility Easement	----- PUE
New Temporary Utility Easement	----- TUE
New Aerial Utility Easement	----- AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	⊠

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

Hedge	-----
Woods Line	-----
Orchard	☼ ☼ ☼ ☼
Vineyard	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊙
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊙
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	-----
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊙
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊙
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

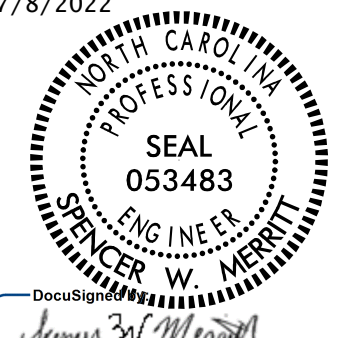
MISCELLANEOUS:

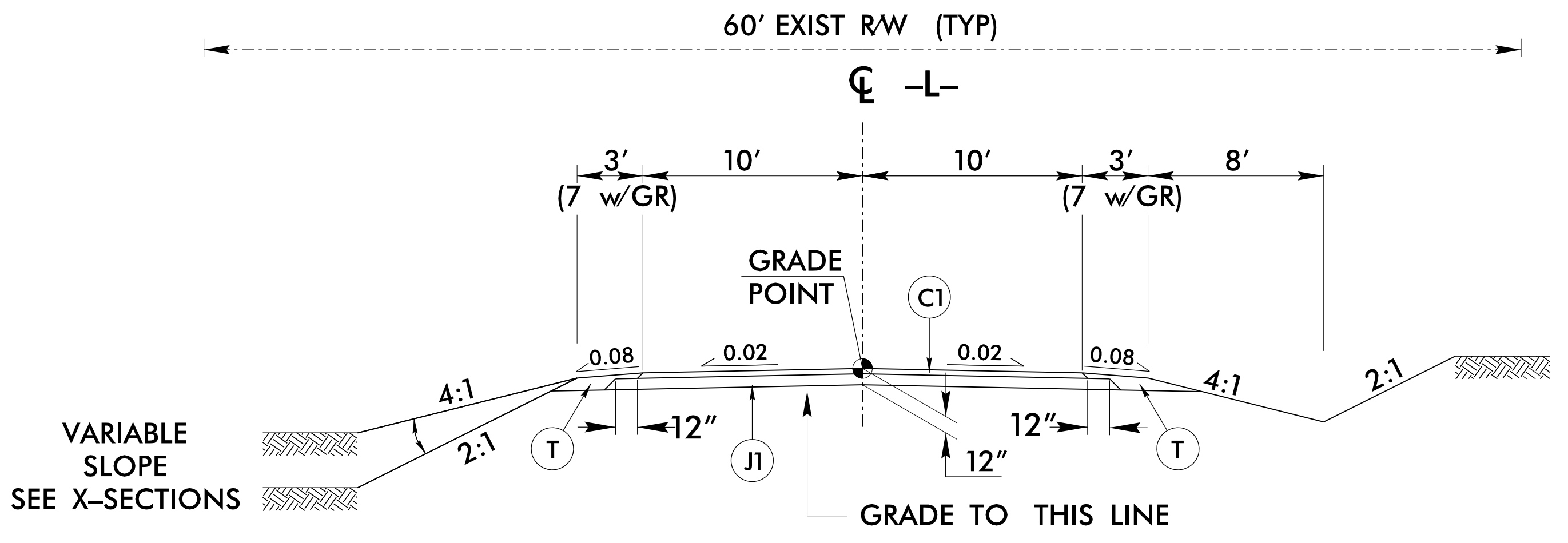
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- 7UTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊠ UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/2019

ASSUMED PAVEMENT SCHEDULE	
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
J1	PROP 10" AGGREGATE BASE COURSE
T	EARTH MATERIAL

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO. 5C.039062	SHEET NO. 2A-1
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No: P-0339 120 Executive St., Hillsborough, NC 27278 (919) 732-5885 • (919) 732-6616 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1
-L- (SR 1409)

USE TYPICAL SECTION NO. 1
-L- STA 10+10.00 TO STA 128+71.00

07 JUL 2022 16:54
C:\p\104\104.dgn
spencer.merritt

5/28/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

* SEE PLANS FOR SHOULDER WIDTHS AT GUARDRAIL LOCATIONS

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		* "N" DIST. FROM E.O.L.	* TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS										IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS					
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	TYPE-III	GREU 350 TL-3	GREU 350 TL-2	XIII	CAT-1	VI MOD	BIC	AT-1	EA	G	NG										
-L-	47+07.00	52+78.00	RT	575.0'			49+29.00	51+69.00	4'-0"	7'-0"	50'	50'	1	1																						
-L-	49+24.00	53+39.00	LT	425.0'			49+45.00	51+69.00	4'-0"	7'-0"	50'	50'	1	1																						
-L-	110+96.00	115+21.00	RT	425.0'			113+46.00		4'-0"	7'-0"	50'	50'	1	1																						
-L-	111+77.50	115+90.00	LT	418.75'			113+40.00		4'-0"	7'-0"	50'	50'	1	1																						
SUBTOTAL				1843.75'																																
LESS ANCHOR DEDUCTION																																				
				GREU TL-3			8@50.00'		400.0'																											
TOTALS				1443.75'																																

SUMMARY OF EARTHWORK IN CUBIC YARDS

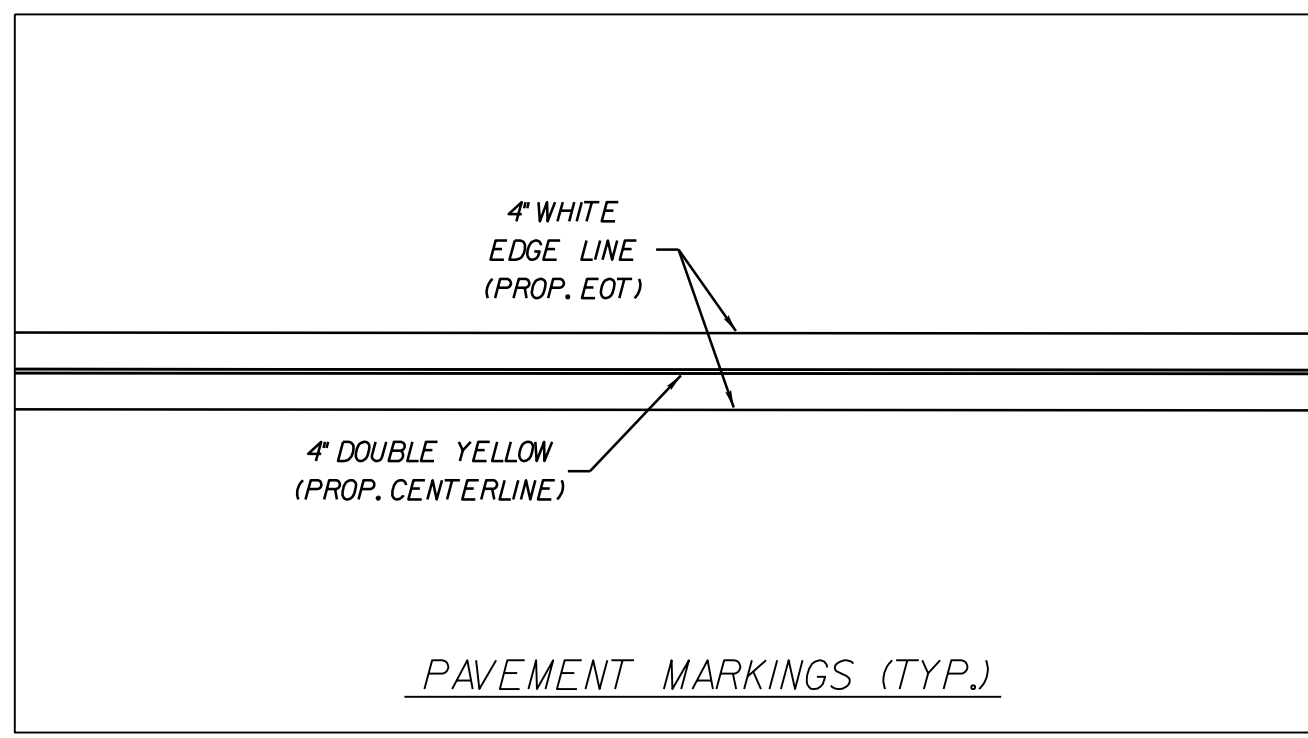
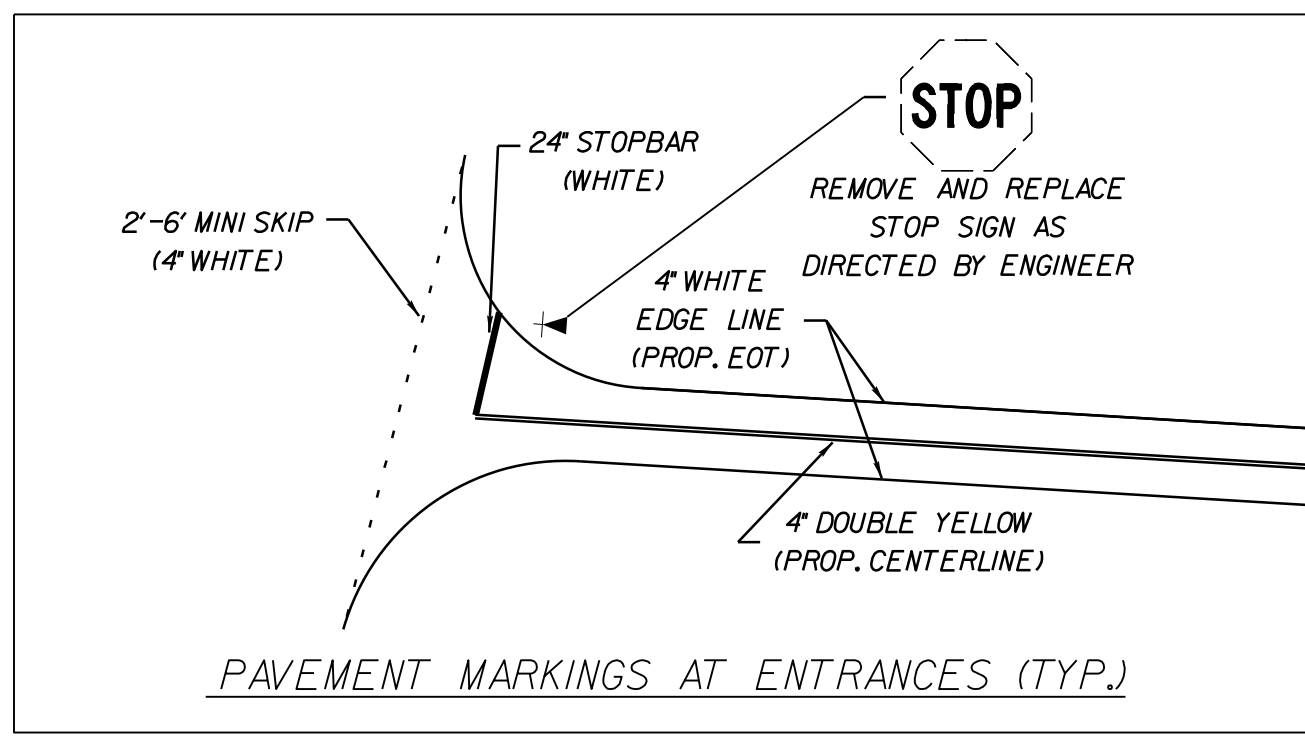
LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT	BORROW	WASTE
-L- STA. 10+10.00 TO 128+71.00	9,808		2,256		7,552
TOTAL	9,808		2,256		7,552
PROJECT TOTALS	9,808		2,256		7,552
GRAND TOTALS	9,808		2,256		7,552
SAY	9,810				

NOTE: "QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RE-CROSS SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS-SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID."

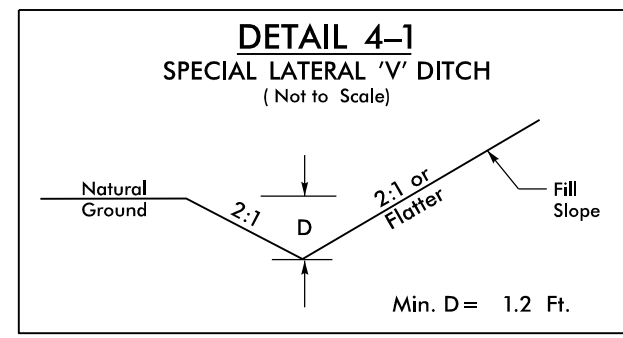
SHOULDER BORROW = 2260 CY

PAVEMENT MARKINGS TYPICAL INSET DETAILS

NOTE: ALL PAVEMENT MARKINGS SHALL BE PAINT (2 COATS).

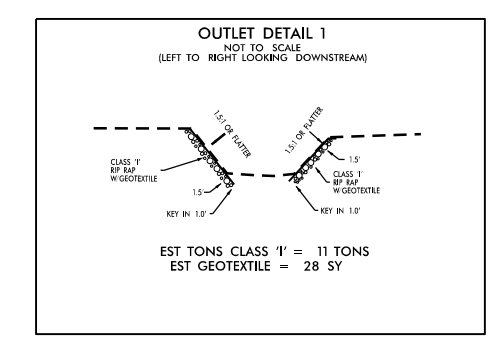


PROJECT REFERENCE NO. 5C.039062	SHEET NO. 4
Prepared in the Office of: SUMMIT ROADWAY DESIGN ENGINEER 7/8/2022	NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

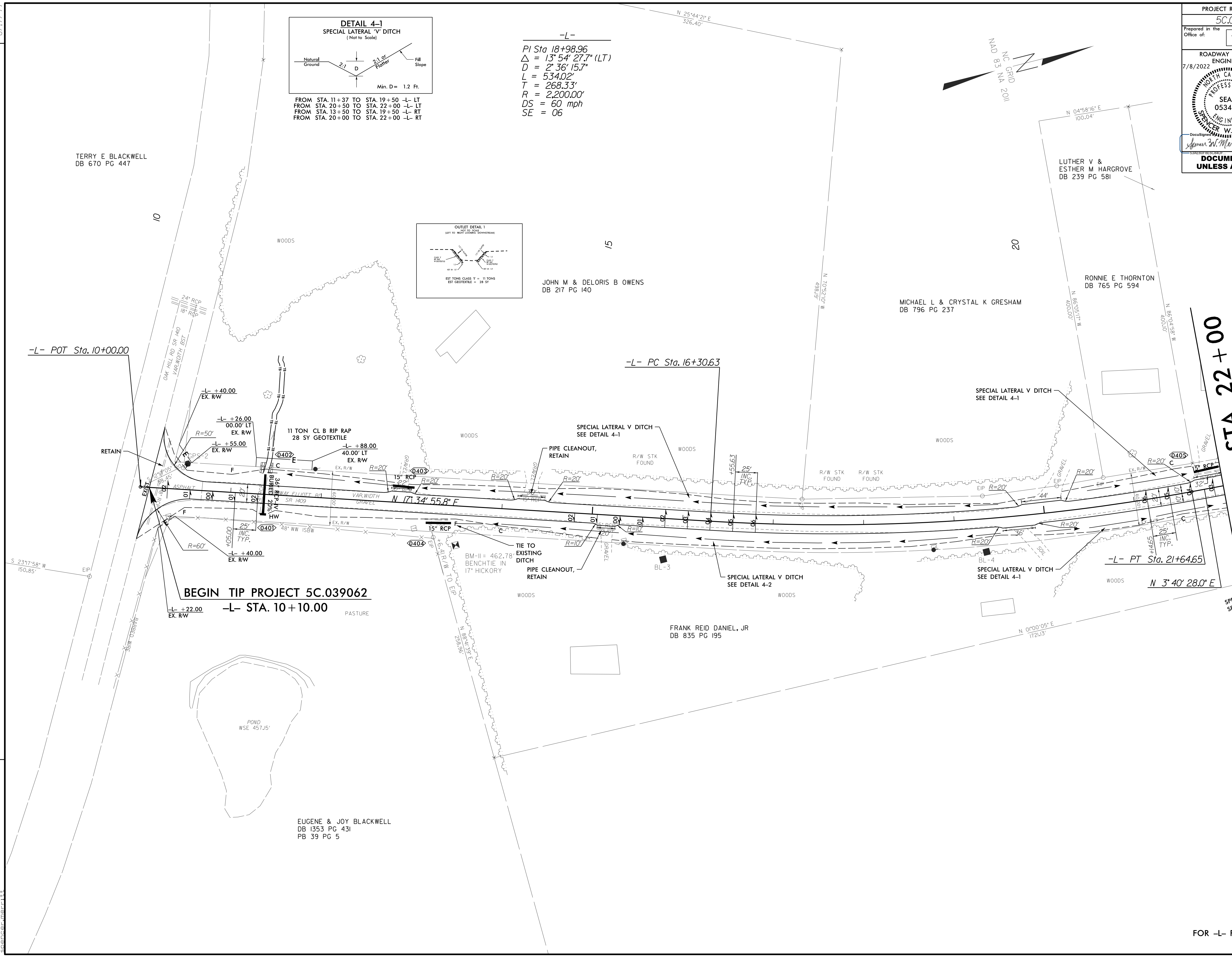


FROM STA. 11+37 TO STA. 19+50 -L- LT
 FROM STA. 20+50 TO STA. 22+00 -L- LT
 FROM STA. 13+50 TO STA. 19+50 -L- RT
 FROM STA. 20+00 TO STA. 22+00 -L- RT

-L-
 PI Sta 18+98.96
 $\Delta = 13^{\circ}54'27.7''$ (LT)
 $D = 2^{\circ}36'15.7''$
 $L = 534.02'$
 $T = 268.33'$
 $R = 2,200.00'$
 $DS = 60$ mph
 $SE = 06$



EST TONS CLASS T = 11 TONS
 EST GEOTEXTILE = 28 SY



REVISIONS

**MATCHLINE -L- STA 22+00
(SEE SHEET 5)**

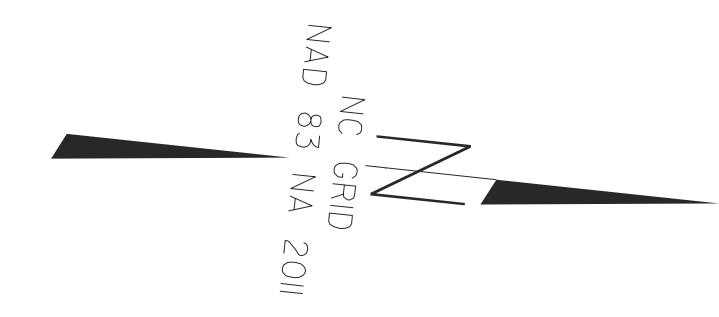
07-JUL-2022 16:54
 Conval Road est 4.dgn
 spencer.merritt

8/17/99

PROJECT REFERENCE NO. 5C.039062	SHEET NO. 5
Prepared in the Office of: SUMMIT ENGINEERING	NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022 SEAL 053483 SPENCER W. MORRIS	HYDRAULICS ENGINEER 7/8/2022 SEAL 053755 PATRICK M. HARTNETT
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

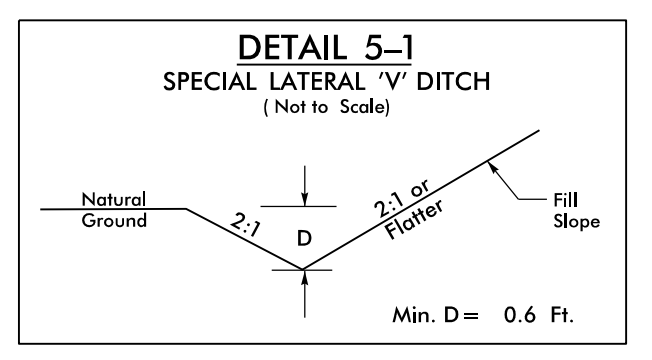
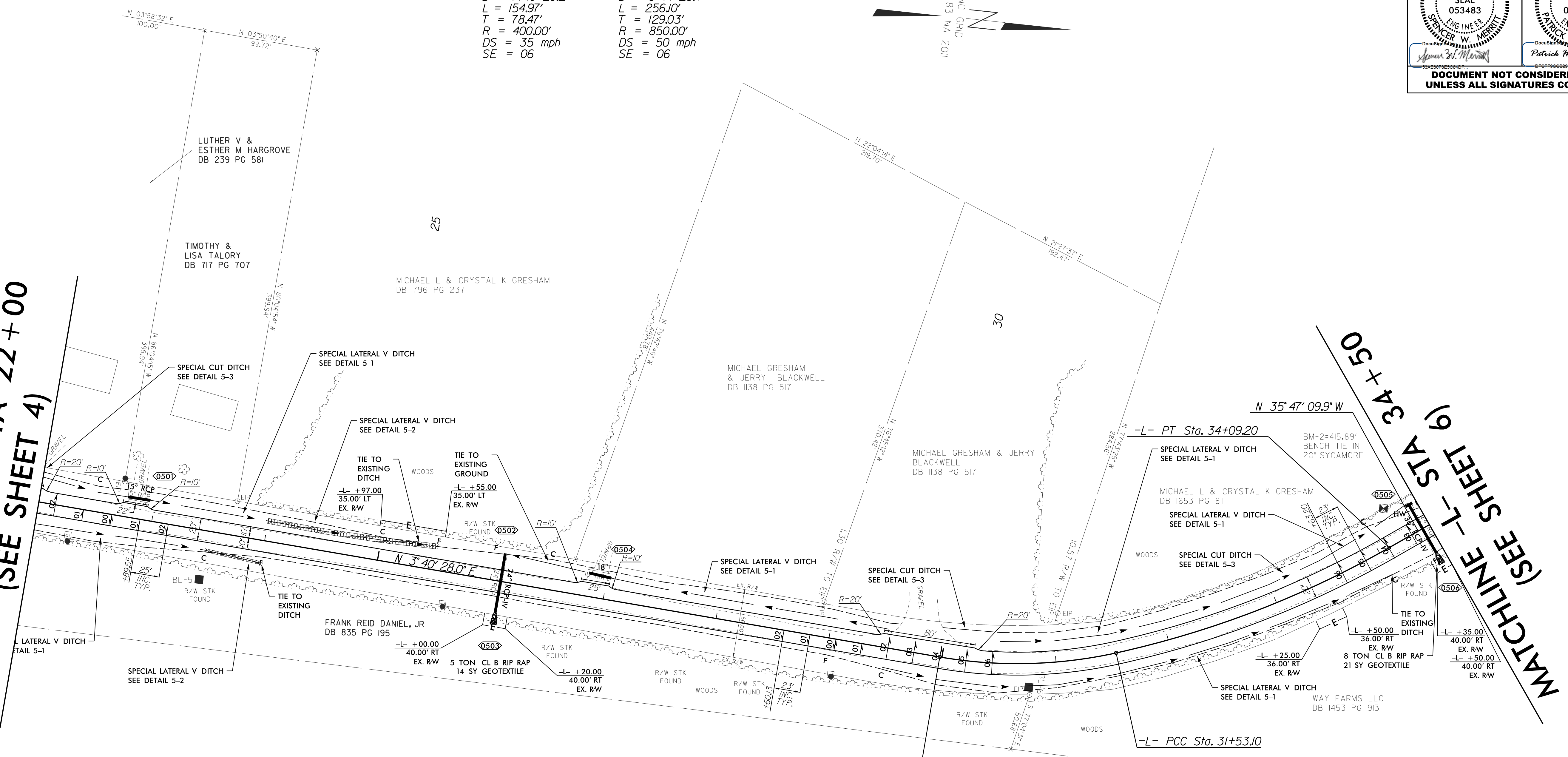
-L-

PI Sta 30+76.59 Δ = 22° 11' 51.4" (LT) D = 14' 19" 26.2" L = 154.97' T = 78.47' R = 400.00' DS = 35 mph SE = 06	PI Sta 32+82.12 Δ = 17° 15' 46.5" (LT) D = 6' 44" 26.4" L = 256.10' T = 129.03' R = 850.00' DS = 50 mph SE = 06
--	--

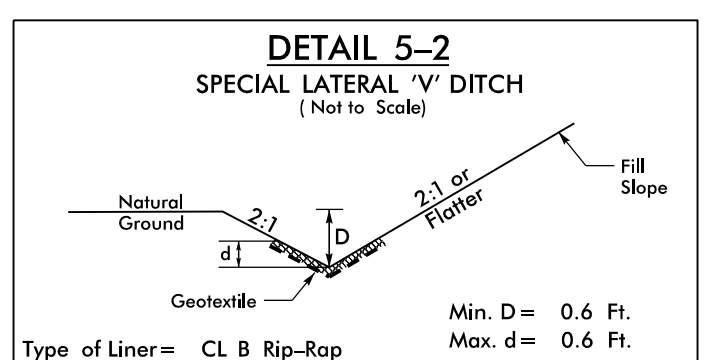


MATCHLINE -L- STA 22+00
(SEE SHEET 4)

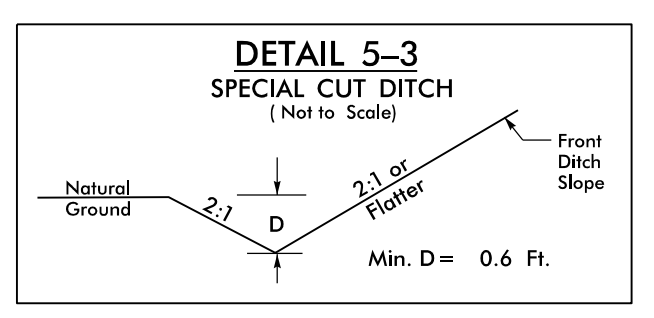
MATCHLINE -L- STA 34+50
(SEE SHEET 6)



FROM STA. 22+50 TO STA. 24+00 -L- LT
FROM STA. 26+09 TO STA. 29+50 -L- LT
FROM STA. 30+50 TO STA. 32+00 -L- LT
FROM STA. 34+00 TO STA. 34+43 -L- LT
FROM STA. 22+00 TO STA. 23+50 -L- RT
FROM STA. 29+50 TO STA. 34+00 -L- RT



Type of Liner = CL B Rip-Rap
FROM STA. 24+00 TO STA. 25+50 -L- LT
FROM STA. 23+50 TO STA. 24+00 -L- RT

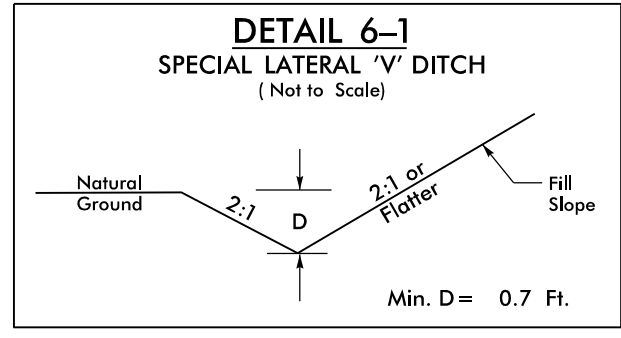


FROM STA. 22+00 TO STA. 22+50 -L- LT
FROM STA. 30+00 TO STA. 30+50 -L- LT
FROM STA. 32+50 TO STA. 34+00 -L- LT

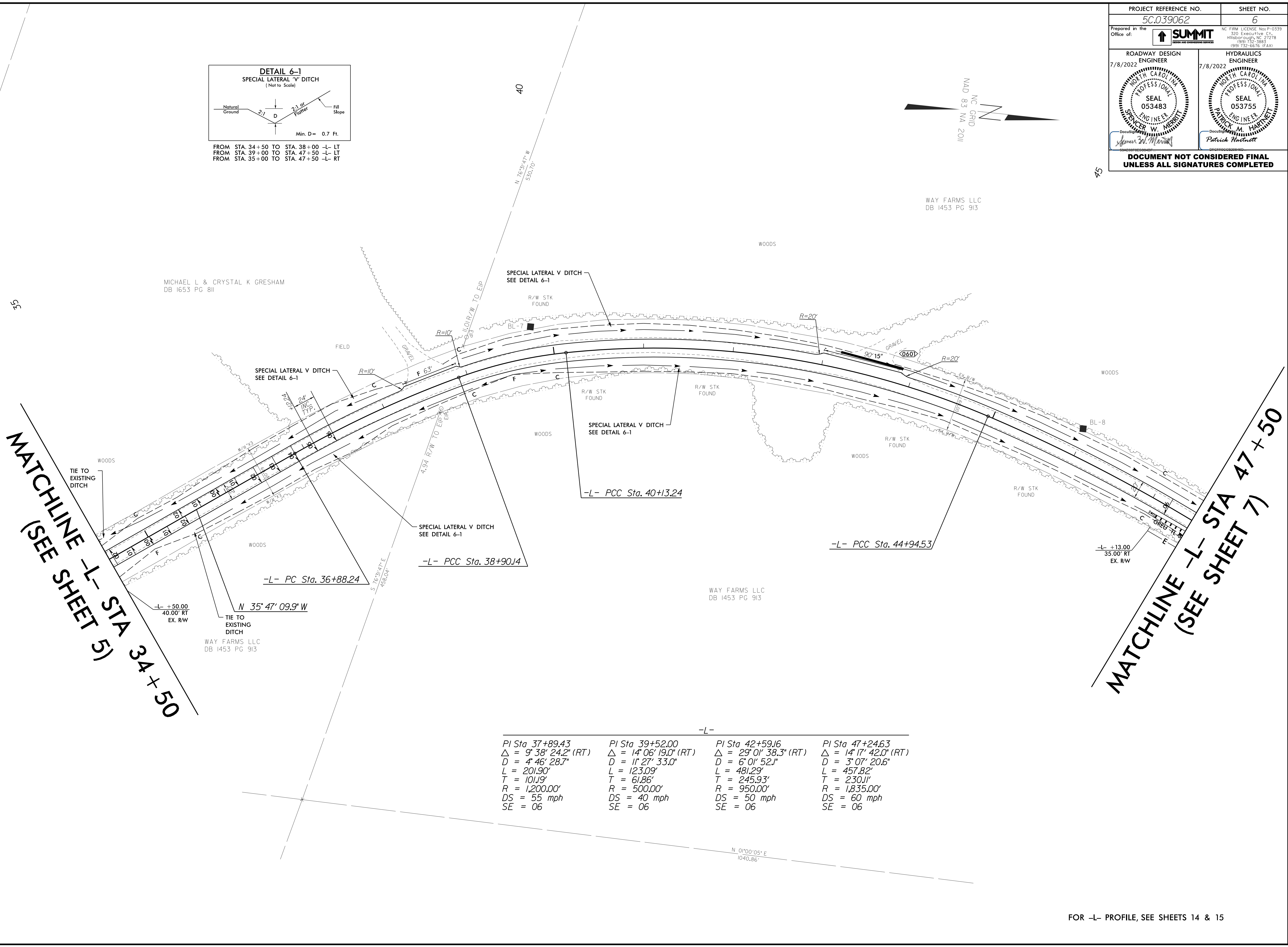
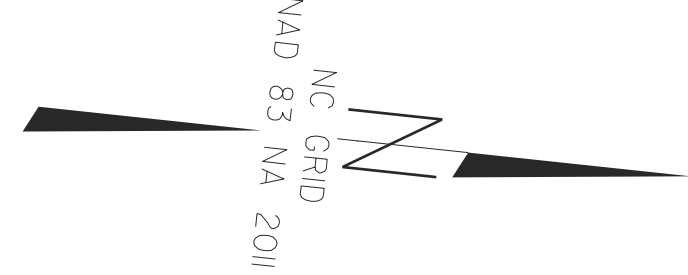
REVISIONS

07-JUL-2022 16:54
C:\wll\Projects\555.dgn
spencer.morris

PROJECT REFERENCE NO. 5C.039062	SHEET NO. 6
Prepared in the Office of: SUMMIT ENGINEERING	NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022 SEAL 053483 SPENCER W. MORRIS	HYDRAULICS ENGINEER 7/8/2022 SEAL 053755 PATRICK M. HARTNETT
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FROM STA. 34+50 TO STA. 38+00 -L- LT
 FROM STA. 39+00 TO STA. 47+50 -L- LT
 FROM STA. 35+00 TO STA. 47+50 -L- RT



-L-			
PI Sta 37+89.43	PI Sta 39+52.00	PI Sta 42+59.16	PI Sta 47+24.63
$\Delta = 9' 38' 24.2''$ (RT)	$\Delta = 14' 06' 19.0''$ (RT)	$\Delta = 29' 01' 38.3''$ (RT)	$\Delta = 14' 17' 42.0''$ (RT)
$D = 4' 46' 28.7''$	$D = 11' 27' 33.0''$	$D = 6' 01' 52.1''$	$D = 3' 07' 20.6''$
$L = 201.90'$	$L = 123.09'$	$L = 481.29'$	$L = 457.82'$
$T = 101.19'$	$T = 61.86'$	$T = 245.93'$	$T = 230.11'$
$R = 1,200.00'$	$R = 500.00'$	$R = 950.00'$	$R = 1,835.00'$
$DS = 55$ mph	$DS = 40$ mph	$DS = 50$ mph	$DS = 60$ mph
$SE = 06$	$SE = 06$	$SE = 06$	$SE = 06$

REVISIONS

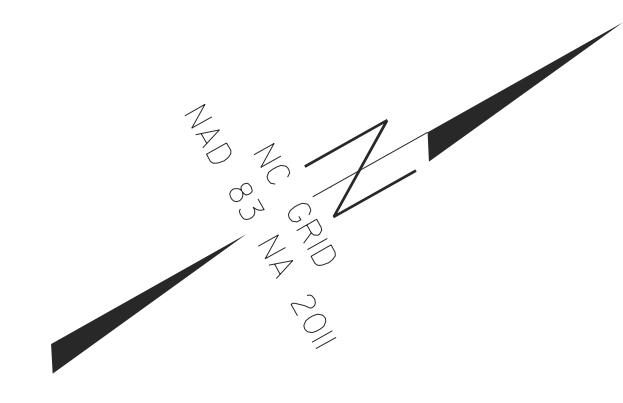
07-JUL-2022 16:54
C:\w\l\p\es\6.dgn
spencer.morris

8/17/22

PROJECT REFERENCE NO. 5C.039062	SHEET NO. 7
Prepared in the Office of: SUMMIT ROADWAY DESIGN ENGINEER 7/8/2022	NC FIRM LICENSE: Not P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022
DocuSign: <i>W. Merritt</i>	DocuSign: <i>Patrick M. Hartnett</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

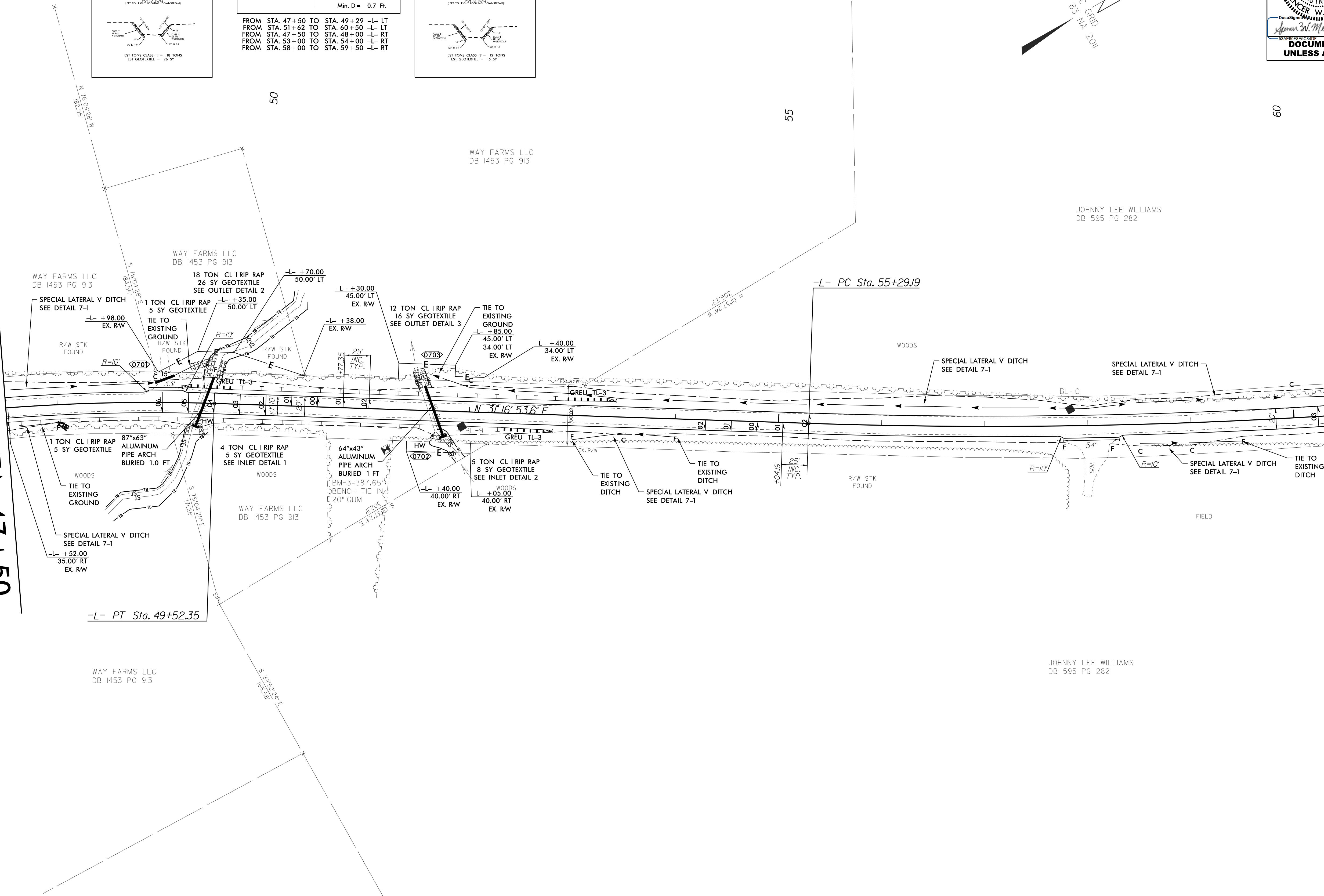
-L-

PI Sta 47+246.3 $\Delta = 14^{\circ}17'42.0''$ (RT) $D = 3^{\circ}07'20.6''$ $L = 457.82'$ $T = 230.11'$ $R = 1,835.00'$ $DS = 60$ mph $SE = 06$	PI Sta 58+17.4 $\Delta = 6^{\circ}17'30.4''$ (LT) $D = 1^{\circ}05'28.9''$ $L = 576.51'$ $T = 288.55'$ $R = 5,250.00'$ $DS = 60$ mph $SE = 03$
---	---



MATCHLINE -L- STA 47+50
(SEE SHEET 6)

MATCHLINE -L- STA 60+50
(SEE SHEET 8)



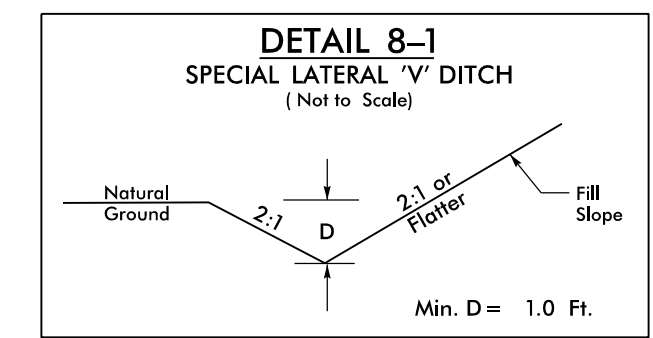
REVISIONS

07-JUL-2022 16:54
 Conval_Torres.dgn
 spencer.merritt

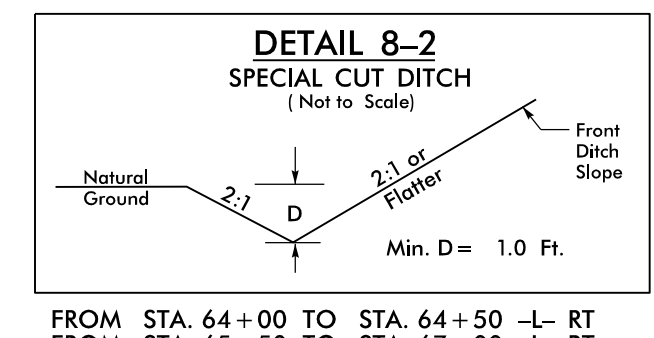
PROJECT REFERENCE NO. 5C.039062	SHEET NO. 8
Prepared in the Office of: SUMMIT ENGINEERING & CONSTRUCTION	NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-

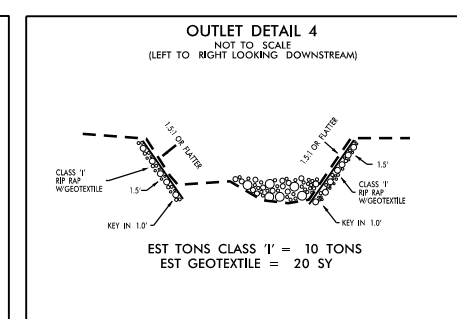
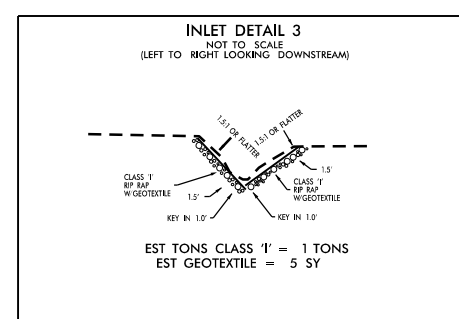
<i>PI Sta 58+17.74</i>	<i>PI Sta 68+44.33</i>
$\Delta = 6' 17' 30.4" (LT)$	$\Delta = 36' 32' 35.8" (RT)$
$D = 1' 05' 28.9"$	$D = 7' 09' 43.1"$
$L = 576.51'$	$L = 510.24'$
$T = 288.55'$	$T = 264.14'$
$R = 5,250.00'$	$R = 800.00'$
$DS = 60 \text{ mph}$	$DS = 45 \text{ mph}$
$SE = 03$	$SE = 06$



FROM STA. 60+50 TO STA. 63+18 -L- LT
 FROM STA. 67+00 TO STA. 73+50 -L- LT
 FROM STA. 64+50 TO STA. 65+50 -L- RT
 FROM STA. 67+00 TO STA. 73+00 -L- RT

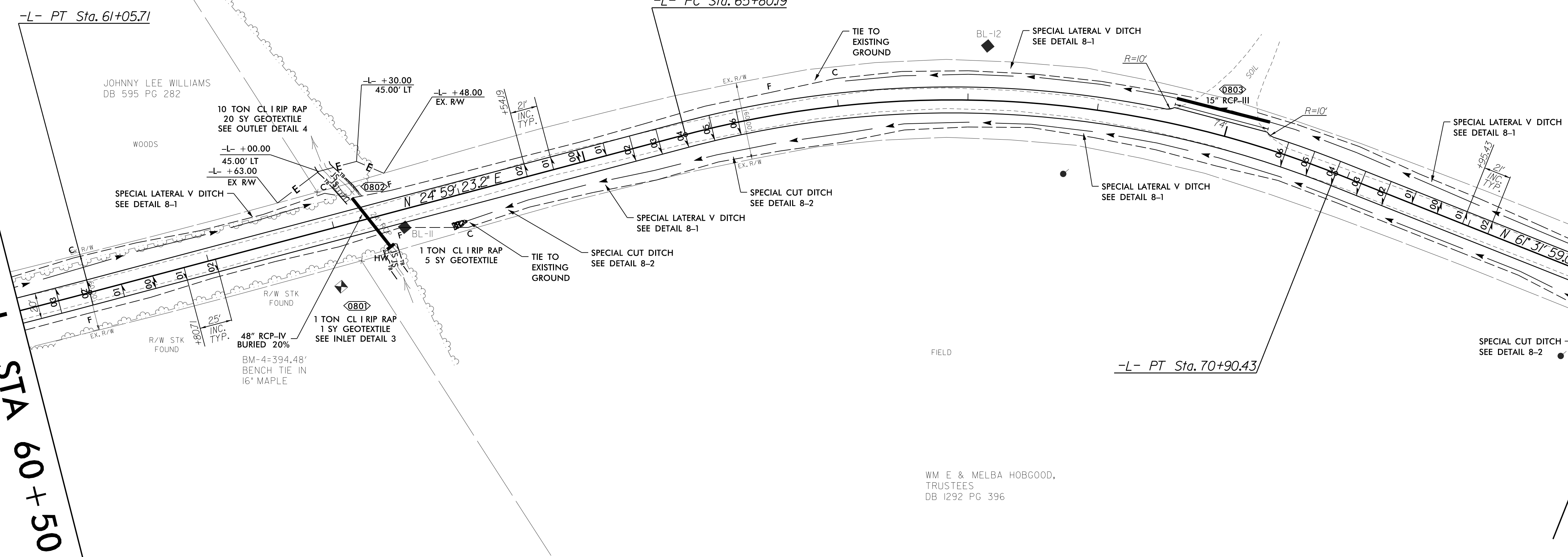


FROM STA. 64+00 TO STA. 64+50 -L- RT
 FROM STA. 65+50 TO STA. 67+00 -L- RT
 FROM STA. 73+00 TO STA. 73+50 -L- RT



MATCHLINE -L- STA 60+50
(SEE SHEET 7)

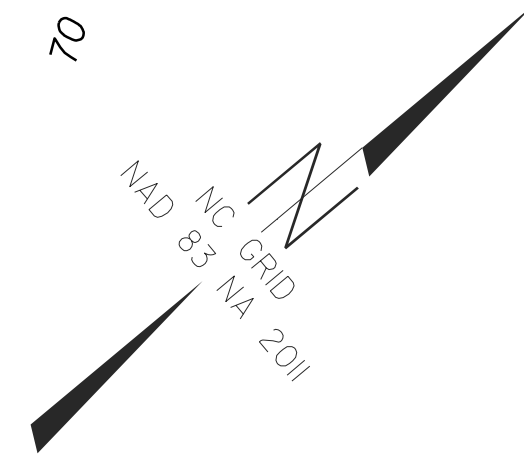
MATCHLINE -L- STA 73+50
(SEE SHEET 9)



WM E & MELBA HOBGOOD,
TRUSTEES
DB I292 PG 396

WM E & MELBA HOBGOOD,
TRUSTEES
DB I292 PG 396

JOHNNY LEE WILLIAMS
DB 595 PG 282

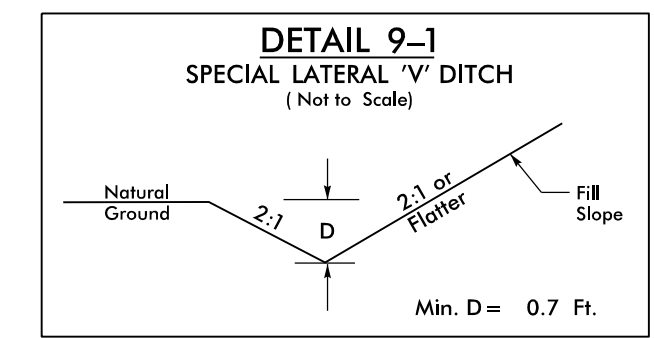


REVISIONS

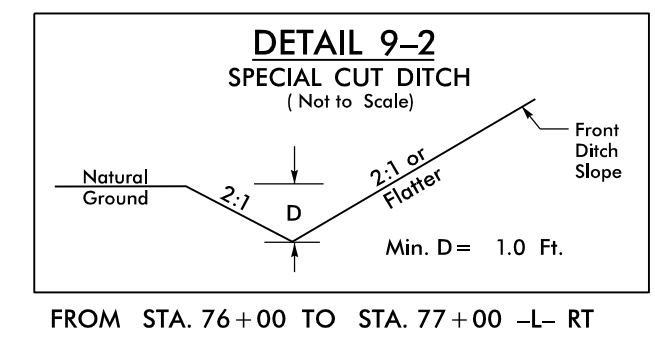
07-JUL-2022 16:54
C:\wll\Projects\8.dgn
spencer.merritt

8/17/99

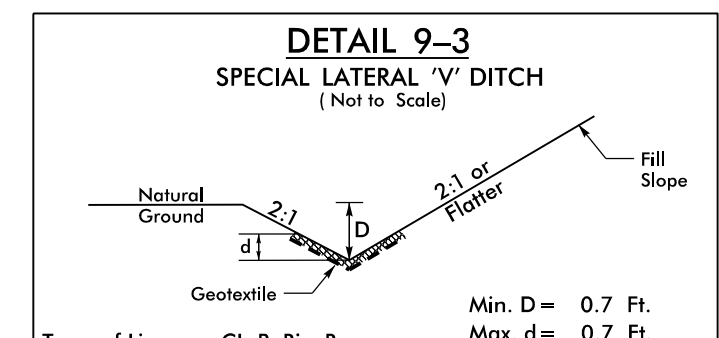
PROJECT REFERENCE NO. 5C.039062	SHEET NO. 9
Prepared in the Office of: SUMMIT ROADWAY DESIGN ENGINEER	NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
7/8/2022	7/8/2022
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FROM STA. 73+50 TO STA. 75+50 -L- LT
 FROM STA. 77+50 TO STA. 82+00 -L- LT
 FROM STA. 73+50 TO STA. 76+00 -L- RT
 FROM STA. 84+50 TO STA. 85+50 -L- RT

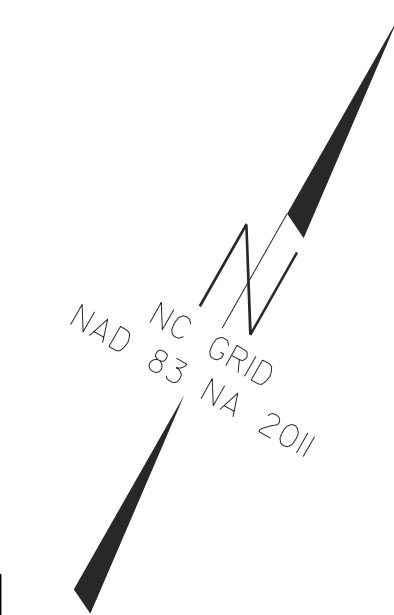


FROM STA. 76+00 TO STA. 77+00 -L- RT



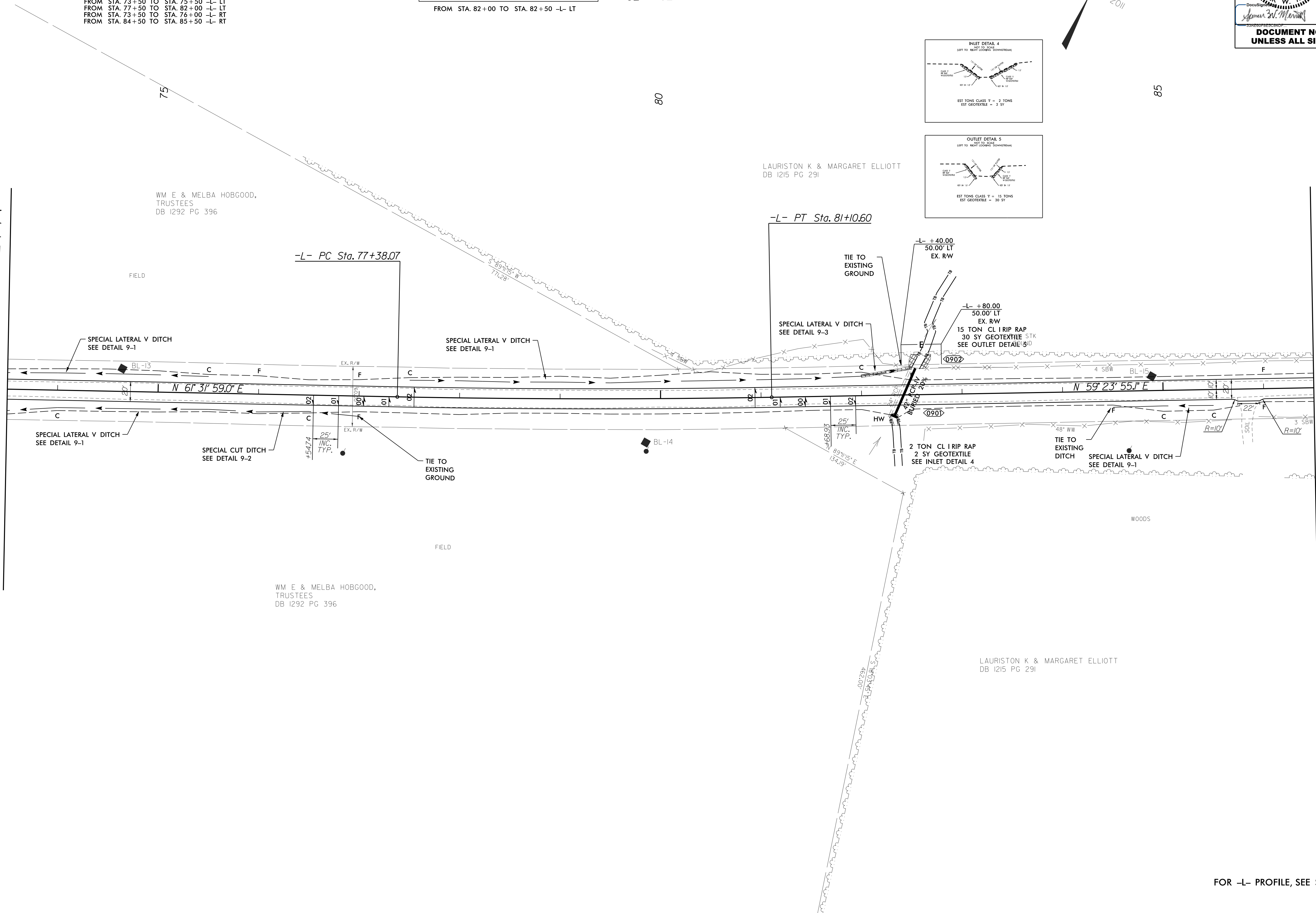
Type of Liner = CL B Rip-Rap
 FROM STA. 82+00 TO STA. 82+50 -L- LT

-L-
 PI Sta 79+24.36
 $\Delta = 2' 08' 03.9''$ (LT)
 $D = 0' 34' 22.6''$
 $L = 372.53'$
 $T = 186.28'$
 $R = 10,000.00'$
 $DS = 60$ mph
 $SE = 02$



MATCHLINE -L- STA 73+50
(SEE SHEET 8)

MATCHLINE -L- STA 86+50
(SEE SHEET 10)



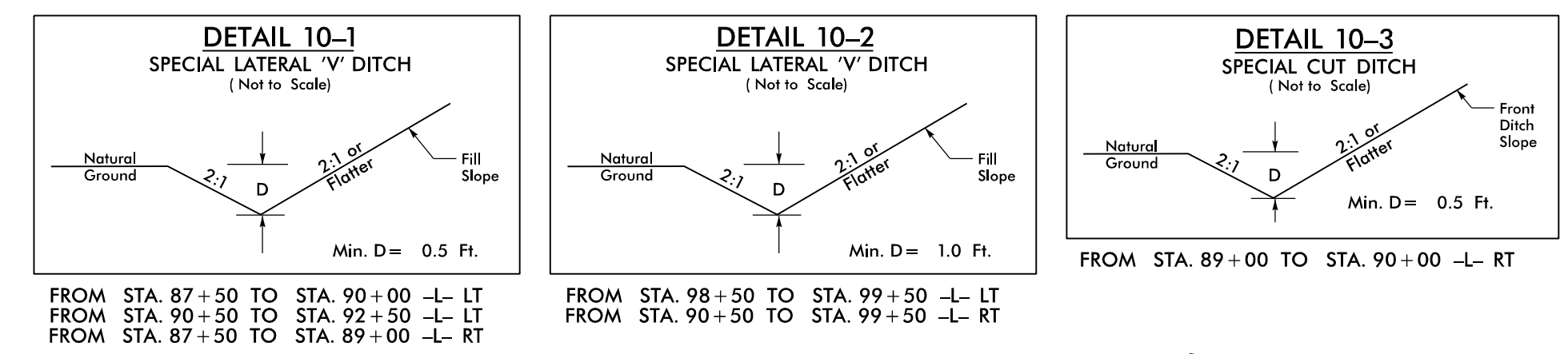
REVISIONS

07-JUL-2022 16:54
 Conval Road es.dgn
 spencer.merritt

8/17/22

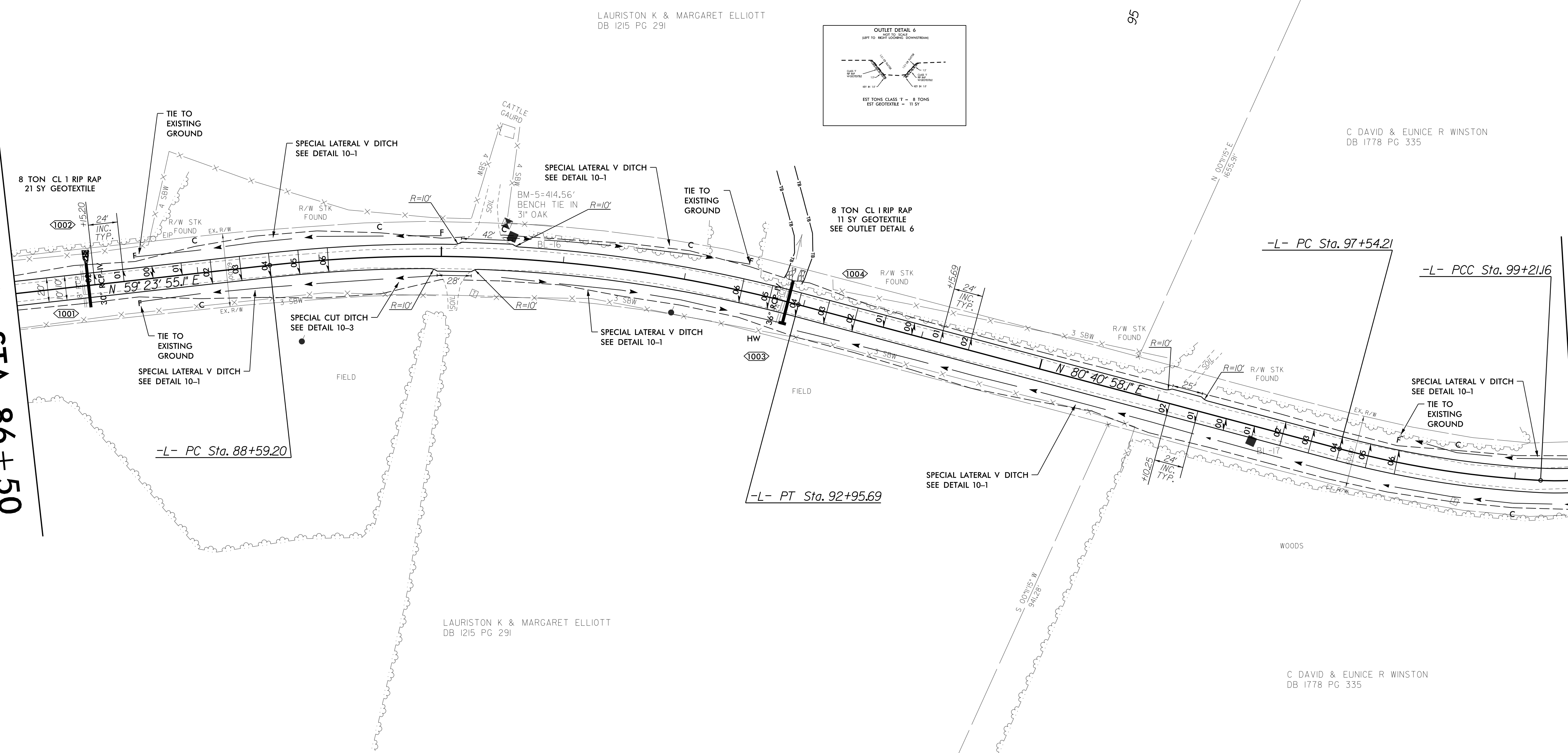
PROJECT REFERENCE NO. 5C.039062	SHEET NO. 10
Prepared in the Office of: SUMMIT ENGINEERING & CONSTRUCTION	NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-		
<i>PI Sta 90+79.99</i>	<i>PI Sta 98+37.99</i>	<i>PI Sta 100+07.09</i>
$\Delta = 21^{\circ}17'03.0''$ (RT)	$\Delta = 11^{\circ}57'24.1''$ (LT)	$\Delta = 36^{\circ}34'43.6''$ (LT)
$D = 4^{\circ}52'34.5''$	$D = 7^{\circ}09'43.1''$	$D = 22^{\circ}02'12.6''$
$L = 436.49'$	$L = 166.95'$	$L = 165.99'$
$T = 220.79'$	$T = 83.78'$	$T = 85.93'$
$R = 1,175.00'$	$R = 800.00'$	$R = 260.00'$
$DS = 55$ mph	$DS = 45$ mph	$DS = 30$ mph
$SE = 06$	$SE = 06$	$SE = 06$



MATCHLINE -L- STA 86+50
 (SEE SHEET 9)

MATCHLINE -L- STA 99+50
 (SEE SHEET 11)



REVISIONS

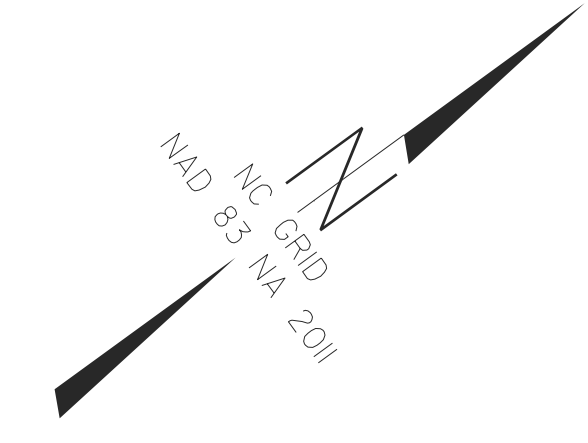
07-JUL-2022 16:54
 C:\w\l\res\10.dgn
 spencer.merritt

8/17/99

REVISIONS

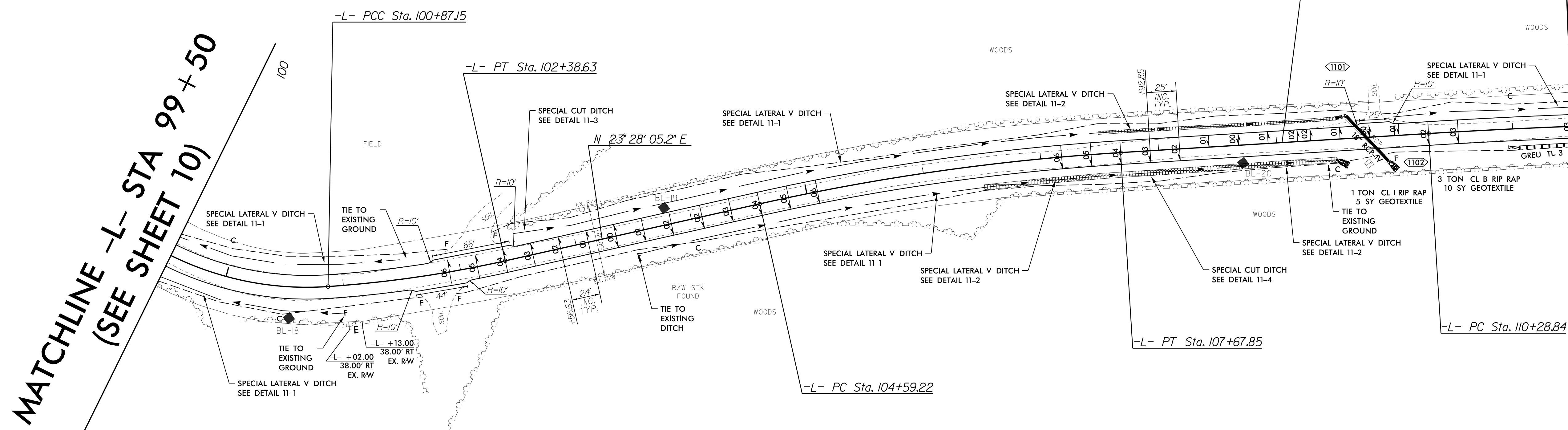
PROJECT REFERENCE NO. 5C.039062	SHEET NO. 11
Prepared in the Office of: SUMMIT ENGINEERS, INC.	NC FIRM LICENSE NO: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-			
PI Sta 100+07.09	PI Sta 101+63.04	PI Sta 106+13.86	PI Sta 111+01.99
$\Delta = 36^{\circ} 34' 43.6"$ (LT)	$\Delta = 8^{\circ} 40' 45.1"$ (LT)	$\Delta = 9^{\circ} 04' 06.2"$ (RT)	$\Delta = 1^{\circ} 40' 34.9"$ (RT)
D = 22^{\circ} 02' 12.6"	D = 5^{\circ} 43' 46.5"	D = 2^{\circ} 56' 17.7"	D = 1^{\circ} 08' 45.3"
L = 165.99'	L = 151.48'	L = 308.63'	L = 146.29'
T = 85.93'	T = 75.89'	T = 154.64'	T = 73.15'
R = 260.00'	R = 1,000.00'	R = 1,950.00'	R = 5,000.00'
DS = 30 mph	DS = 55 mph	DS = 60 mph	DS = 60 mph
SE = 06	SE = 06	SE = 06	SE = 03



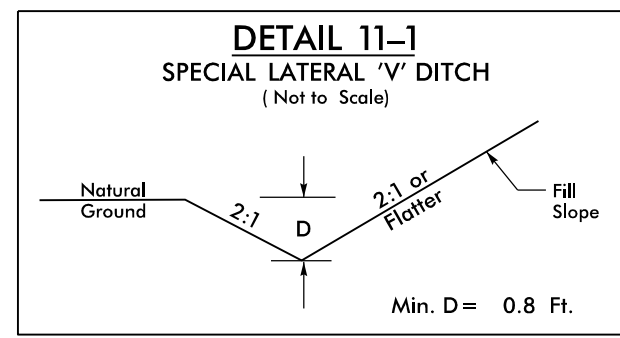
MATCHLINE -L- STA 99+50
(SEE SHEET 10)

MATCHLINE -L- STA 111+50
(SEE SHEET 12)

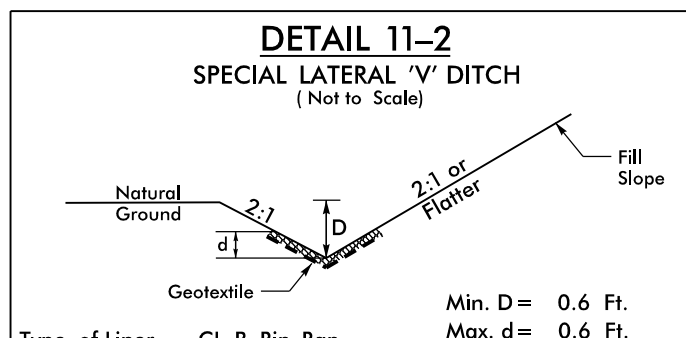


C DAVID & EUNICE R WINSTON
DB 1778 PG 335

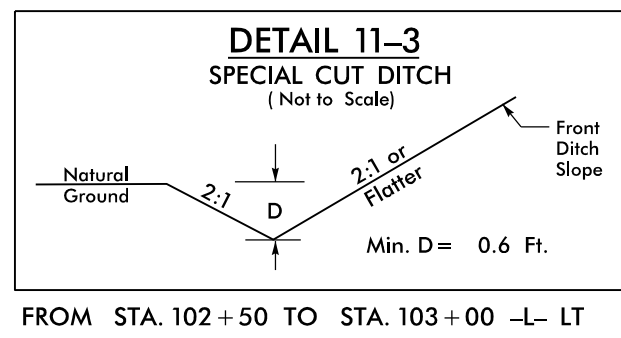
C DAVID & EUNICE R WINSTON
DB 1778 PG 335



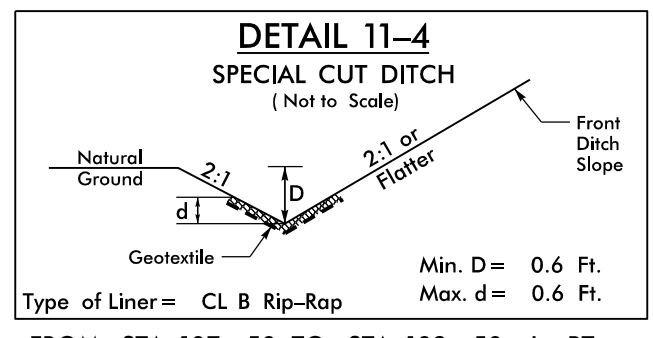
FROM STA. 99+50 TO STA. 101+50 -L- LT
FROM STA. 103+00 TO STA. 109+60 -L- LT
FROM STA. 110+00 TO STA. 111+50 -L- LT
FROM STA. 99+50 TO STA. 101+00 -L- RT
FROM STA. 103+50 TO STA. 106+50 -L- RT



FROM STA. 107+50 TO STA. 109+60 -L- LT
FROM STA. 108+50 TO STA. 107+50 -L- RT
FROM STA. 108+50 TO STA. 109+50 -L- RT



FROM STA. 102+50 TO STA. 103+00 -L- LT



FROM STA. 107+50 TO STA. 108+50 -L- RT

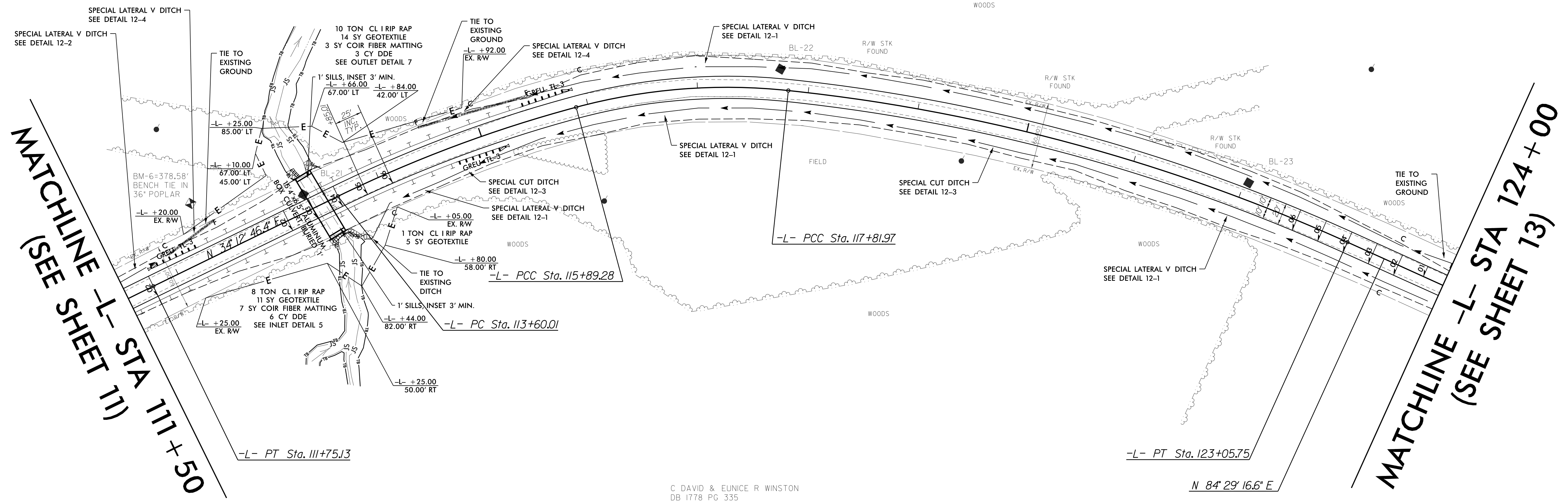
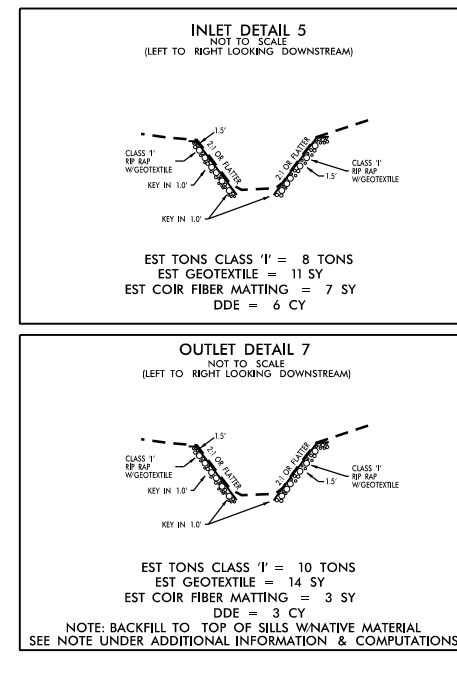
FOR -L- PROFILE, SEE SHEET 17

07-JUL-2022 16:54
C:\w\l\c\res\11.dgn
spencer.merritt

8/17/99

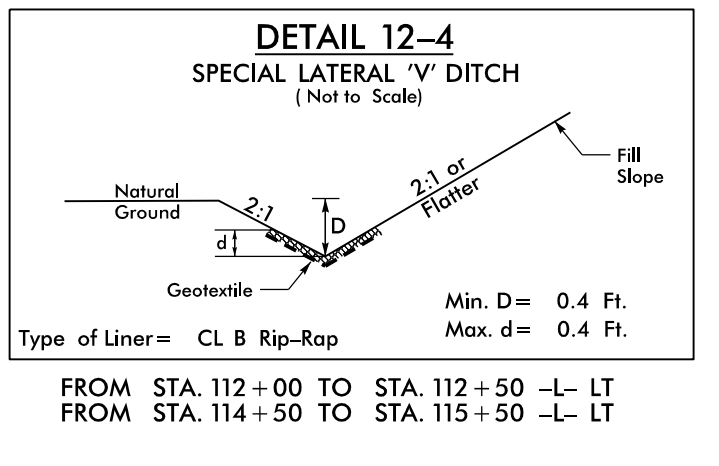
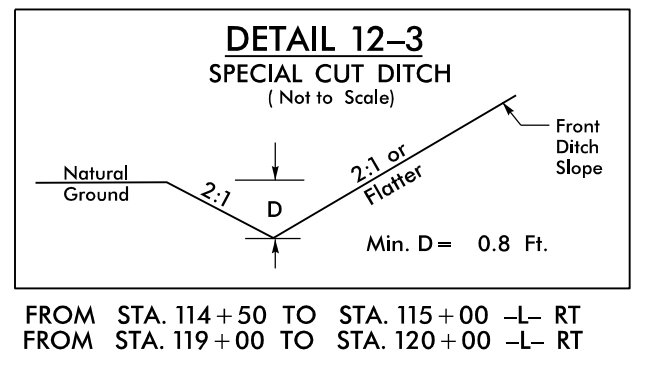
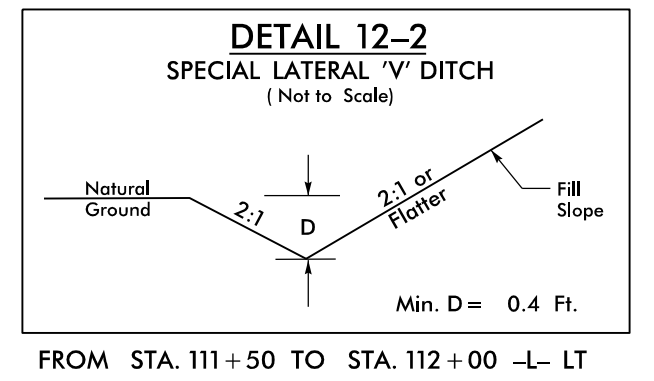
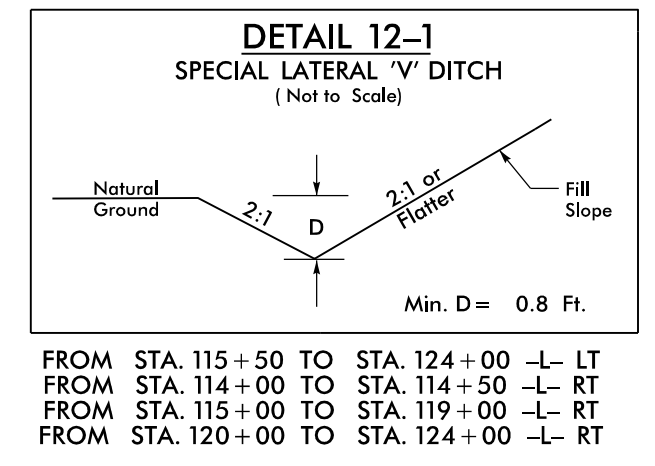
PROJECT REFERENCE NO. 5C.039062		SHEET NO. 12	
Prepared in the Office of: SUMMIT <small>ENGINEERS AND ARCHITECTS</small>		NC FIRM LICENSE No: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	
ROADWAY DESIGN ENGINEER 7/8/2022		HYDRAULICS ENGINEER 7/8/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-L-			
PI Sta 111+01.99	PI Sta 114+74.99	PI Sta 116+86.72	PI Sta 120+46.11
$\Delta = 1^{\circ} 40' 34.9''$ (RT)	$\Delta = 10^{\circ} 56' 49.8''$ (RT)	$\Delta = 21^{\circ} 01' 44.5''$ (RT)	$\Delta = 18^{\circ} 17' 55.8''$ (RT)
D = 1' 08" 45.3"	D = 4' 46" 28.7"	D = 10' 54" 48.5"	D = 3' 29" 37.1"
L = 146.29'	L = 229.28'	L = 192.69'	L = 523.77'
T = 73.15'	T = 114.99'	T = 97.44'	T = 264.14'
R = 5,000.00'	R = 1,200.00'	R = 525.00'	R = 1,640.00'
DS = 60 mph	DS = 55 mph	DS = 40 mph	DS = 60 mph
SE = 03	SE = 06	SE = 06	SE = 06



MATCHLINE -L- STA 111+50
(SEE SHEET 11)

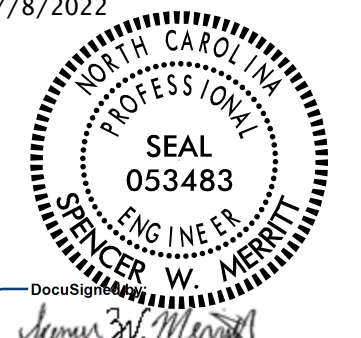

MATCHLINE -L- STA 124+00
(SEE SHEET 13)



FOR -L- PROFILE, SEE SHEETS 17 & 18

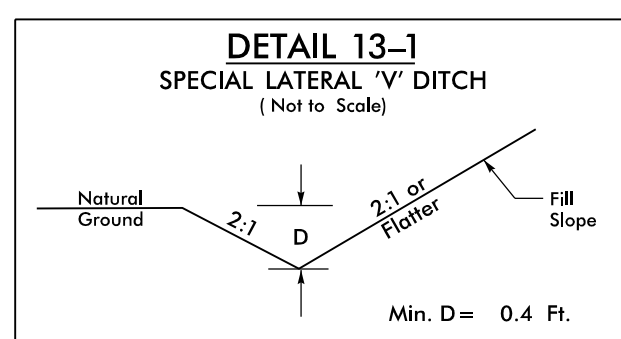
07-JUL-2022 16:54
C:\work\2022\5c\12.dgn
Spencer W. Merritt

8/17/99

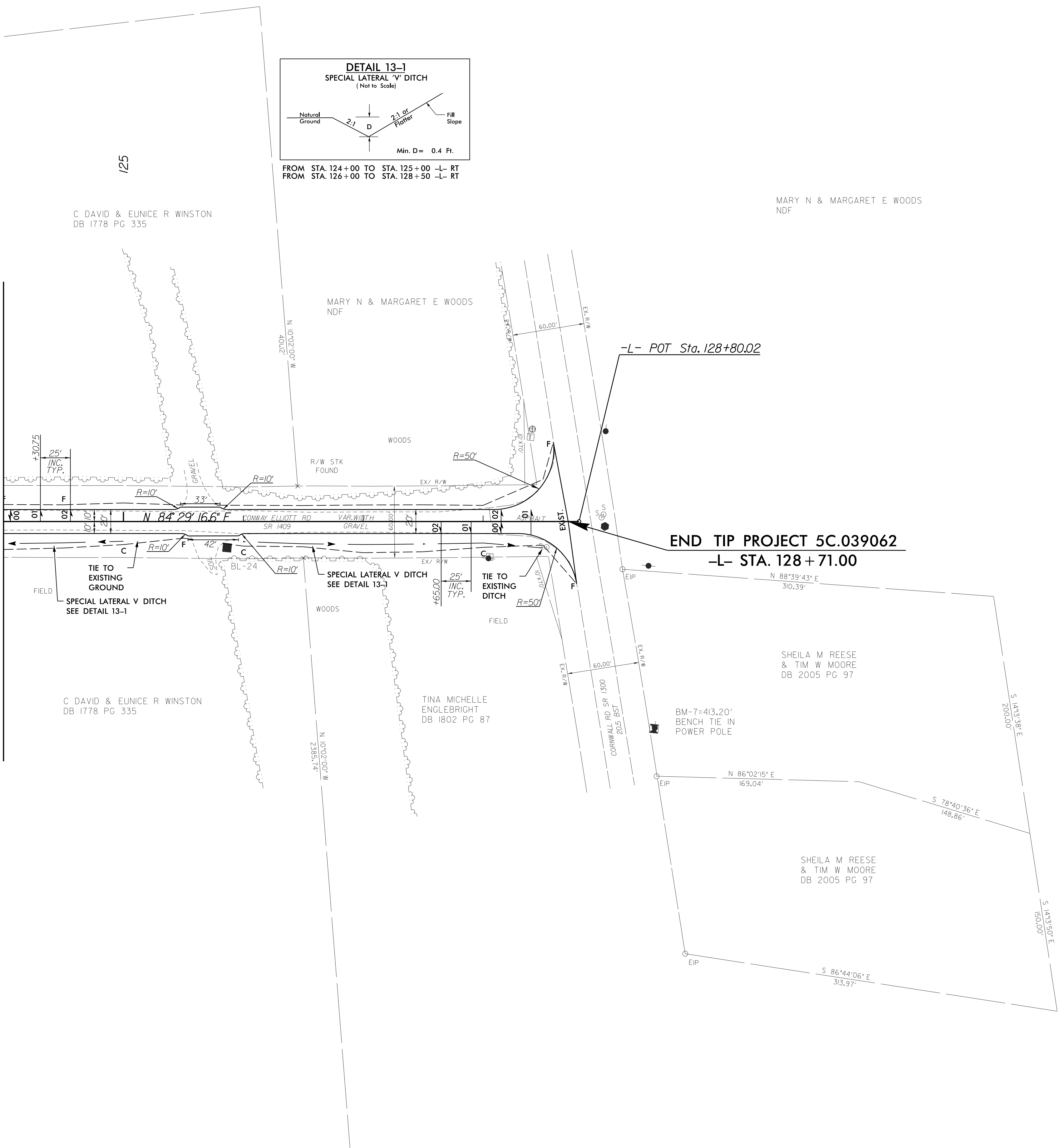
PROJECT REFERENCE NO. 5C.039062	SHEET NO. 13
Prepared in the Office of: SUMMIT www.summit-engineers.com	NC FIRM LICENSE NO: P-0339 300 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA 124+00
(SEE SHEET 12)



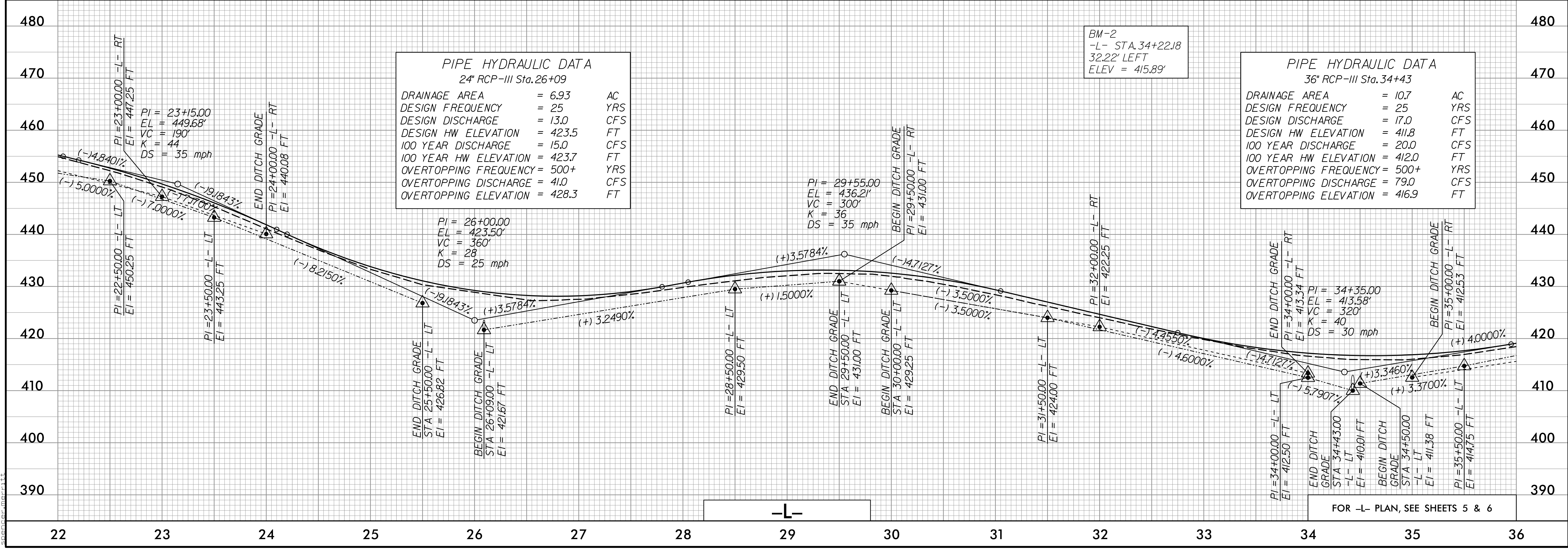
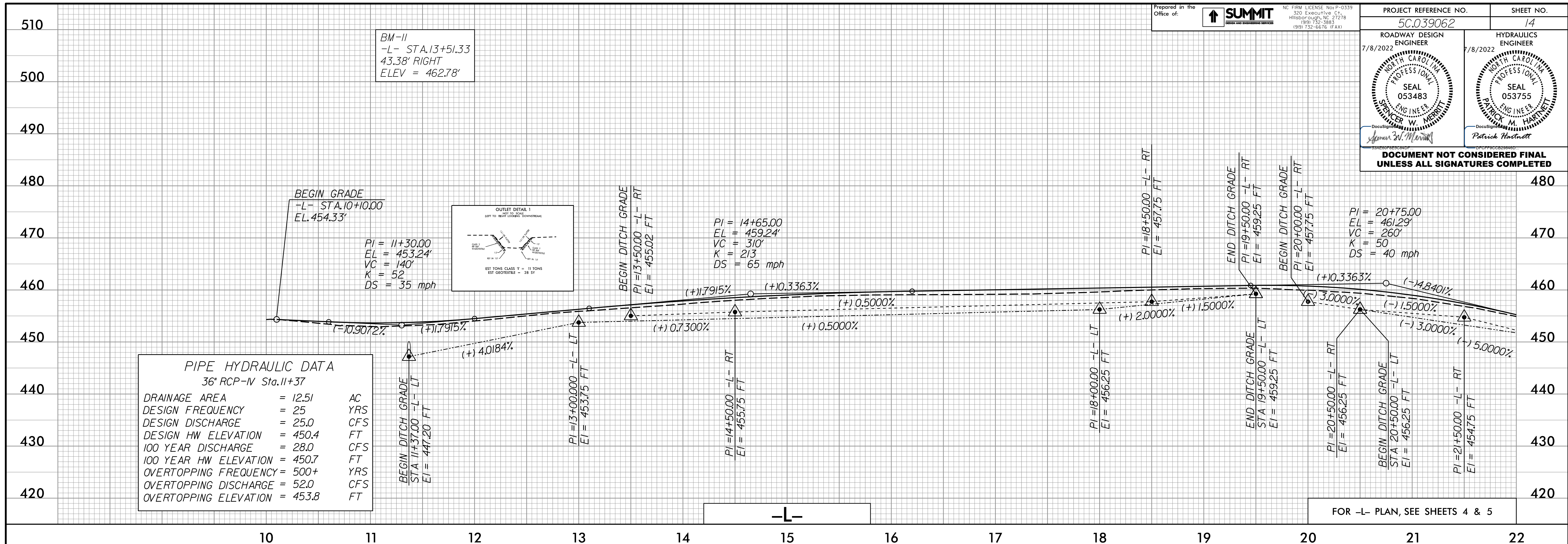
FROM STA. 124+00 TO STA. 125+00 -L- RT
FROM STA. 126+00 TO STA. 128+50 -L- RT



REVISIONS

07-JUL-2022 16:54
C:\proj\Road\es\13.dgn
spencer.merritt

PROJECT REFERENCE NO. 5C.039062		SHEET NO. 14	
ROADWAY DESIGN ENGINEER 7/8/2022		HYDRAULICS ENGINEER 7/8/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

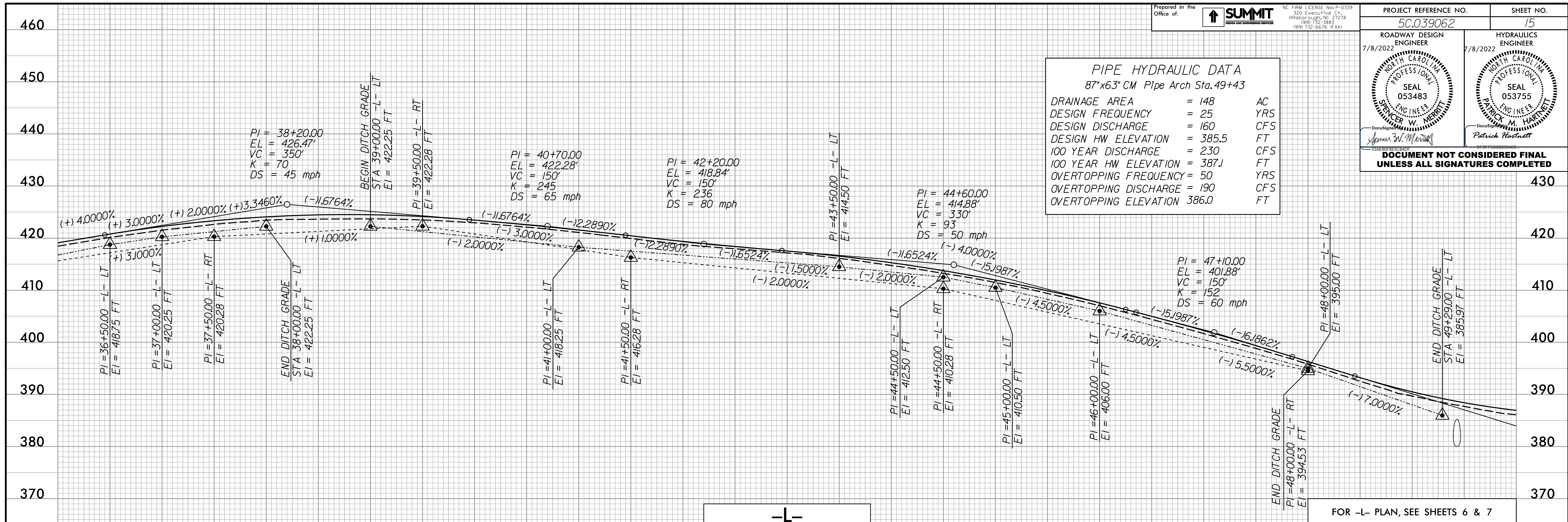


07-JUL-2022 16:54
C:\w\l\rcp\csh_14.dgn
spencer.merritt

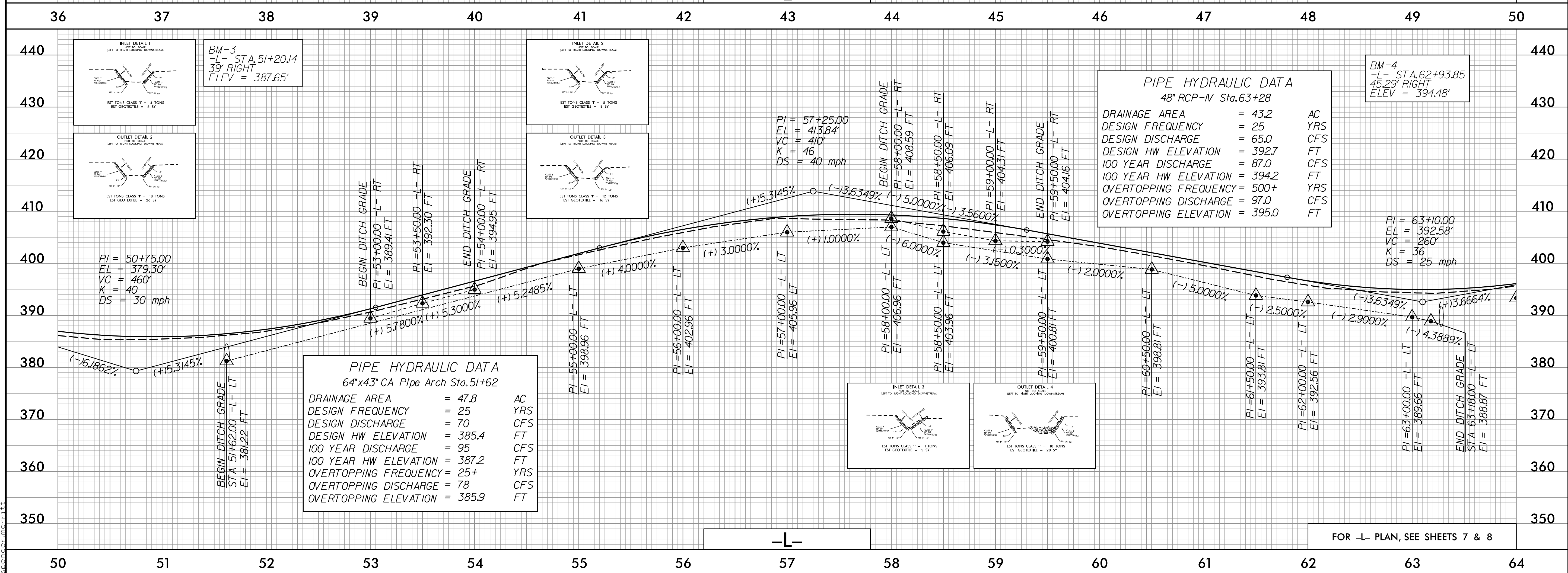
PIPE HYDRAULIC DATA
87"x63" CM Pipe Arch Sta.49+43

DRAINAGE AREA	= 148	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 160	CFS
DESIGN HW ELEVATION	= 385.5	FT
100 YEAR DISCHARGE	= 230	CFS
100 YEAR HW ELEVATION	= 387.1	FT
OVERTOPPING FREQUENCY	= 50	YRS
OVERTOPPING DISCHARGE	= 190	CFS
OVERTOPPING ELEVATION	= 386.0	FT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



FOR -L- PLAN, SEE SHEETS 6 & 7



PIPE HYDRAULIC DATA
48" RCP-M Sta.63+28

DRAINAGE AREA	= 43.2	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 65.0	CFS
DESIGN HW ELEVATION	= 392.7	FT
100 YEAR DISCHARGE	= 87.0	CFS
100 YEAR HW ELEVATION	= 394.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 97.0	CFS
OVERTOPPING ELEVATION	= 395.0	FT

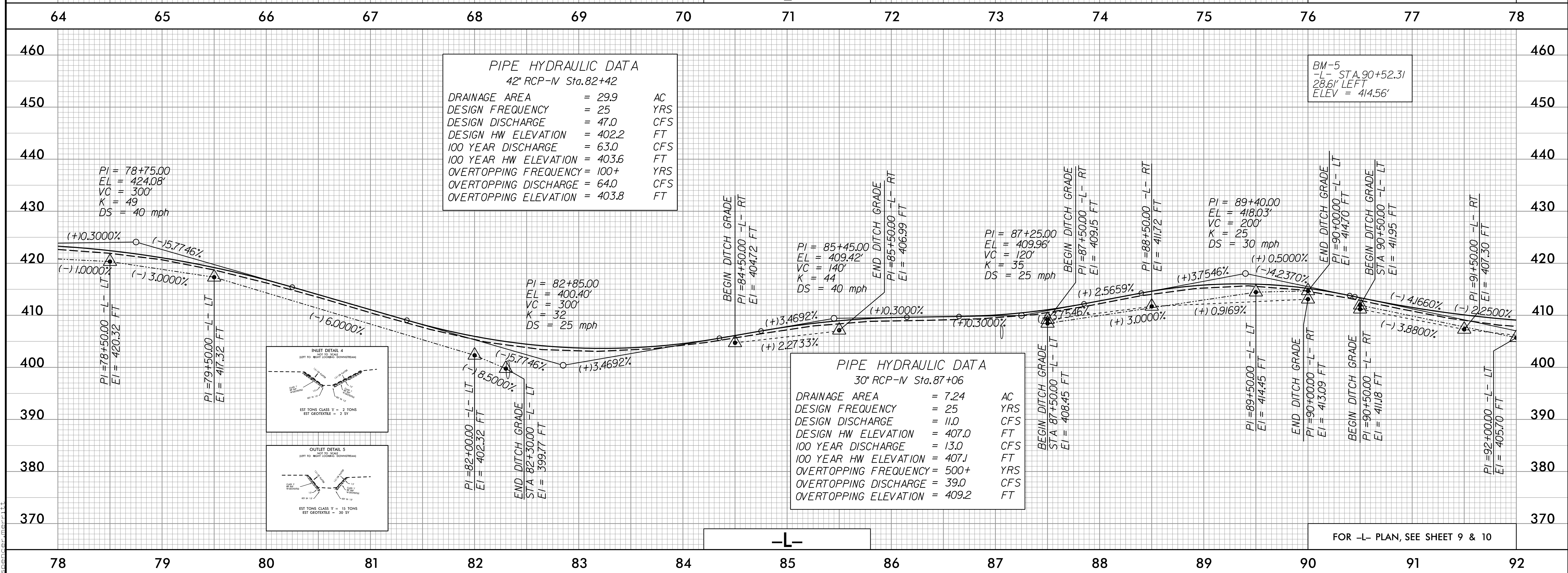
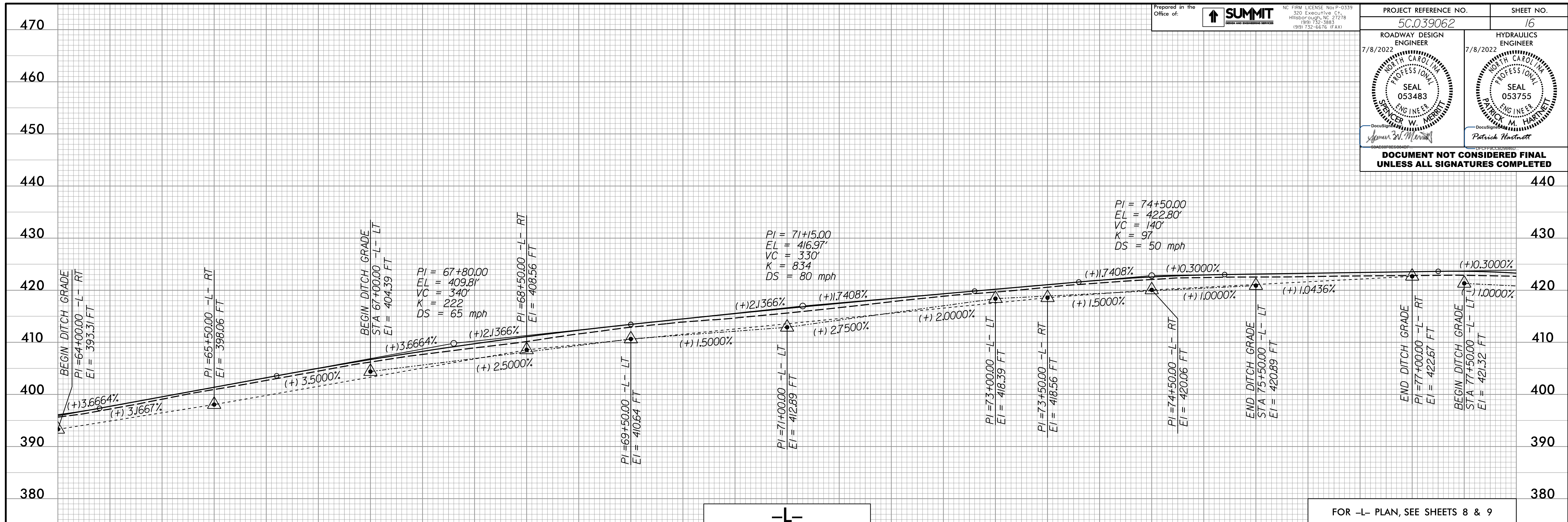
PIPE HYDRAULIC DATA
64"x43" CA Pipe Arch Sta.51+62

DRAINAGE AREA	= 47.8	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 70	CFS
DESIGN HW ELEVATION	= 385.4	FT
100 YEAR DISCHARGE	= 95	CFS
100 YEAR HW ELEVATION	= 387.2	FT
OVERTOPPING FREQUENCY	= 25+	YRS
OVERTOPPING DISCHARGE	= 78	CFS
OVERTOPPING ELEVATION	= 385.9	FT

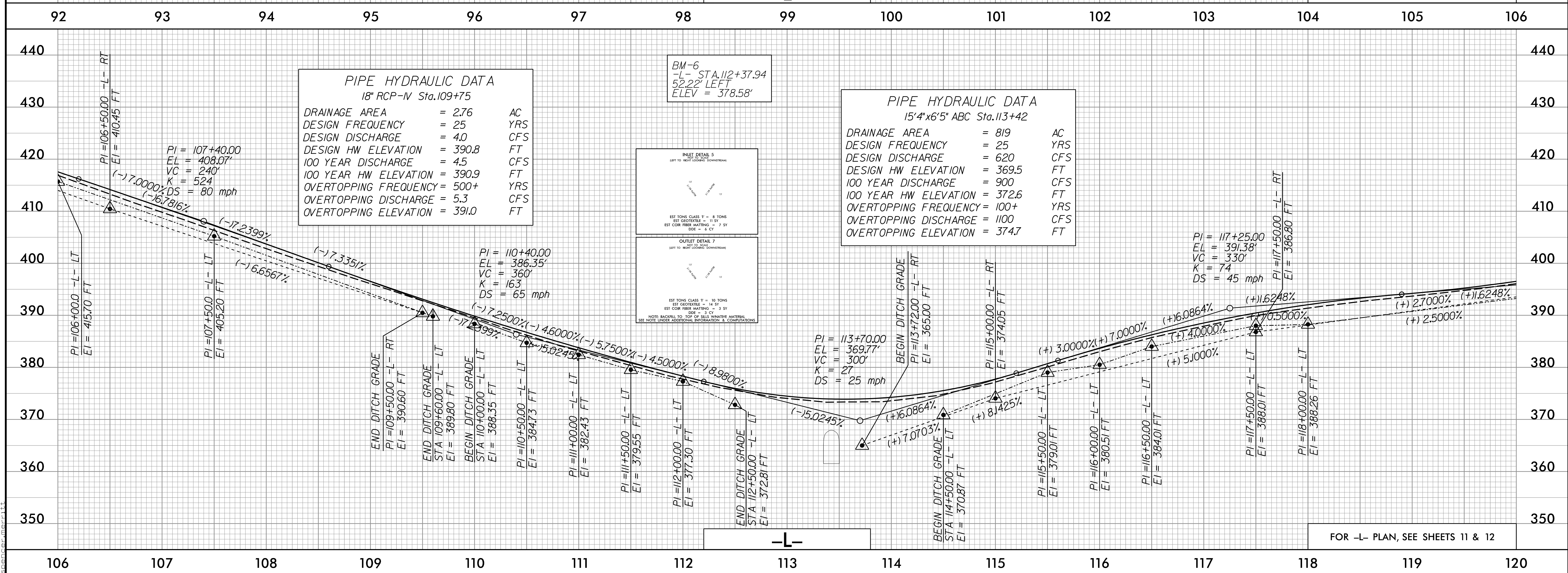
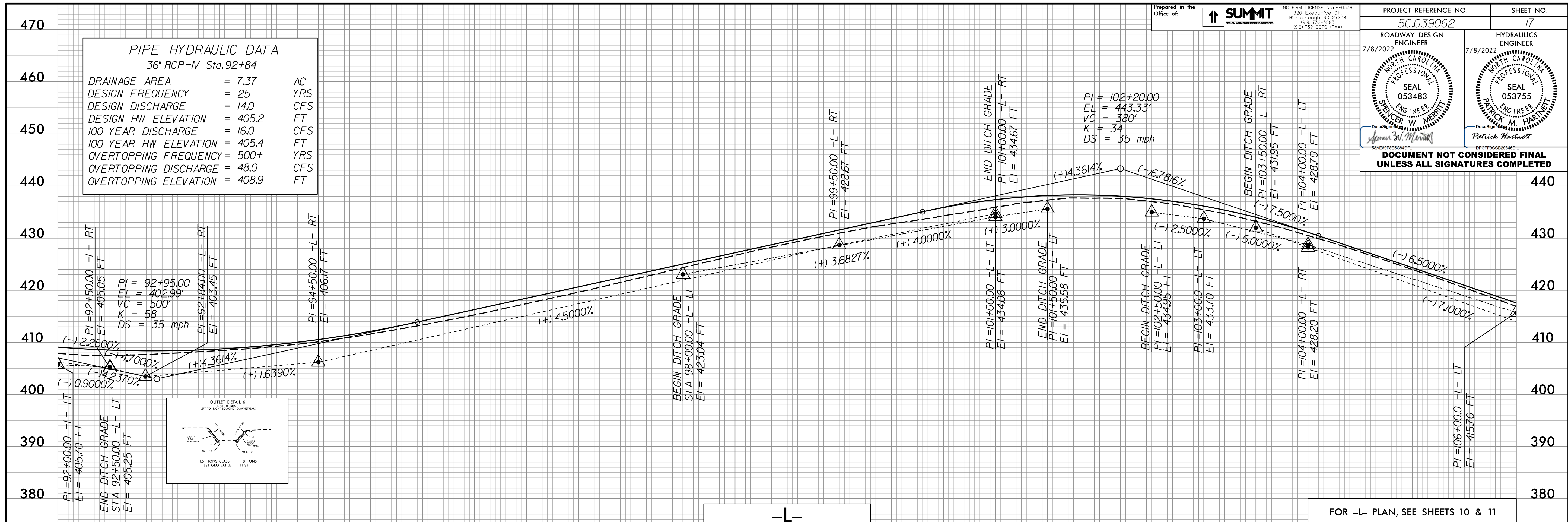
FOR -L- PLAN, SEE SHEETS 7 & 8

07-JUL-2022 16:54
C:\p1\15\15.dgn
SPENCER.MERRITT

PROJECT REFERENCE NO. 5C.039062		SHEET NO. 16
ROADWAY DESIGN ENGINEER 7/8/2022	HYDRAULICS ENGINEER 7/8/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



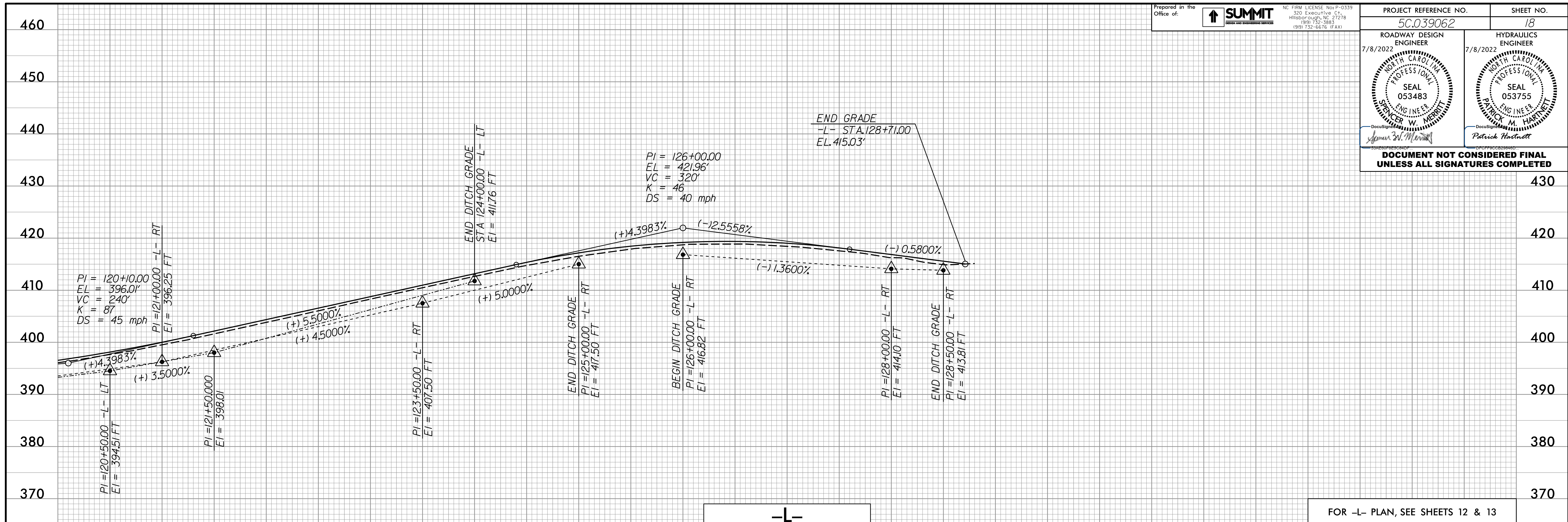
07-JUL-2022 16:54
C:\p1\16.dgn
s:\p1\16.dgn



07 JUL 2022 16:54
C:\p1\17\17.dgn
spencer.merritt

PROJECT REFERENCE NO. 5C.039062		SHEET NO. 18	
ROADWAY DESIGN ENGINEER 7/8/2022		HYDRAULICS ENGINEER 7/8/2022	
<p>DocuSign <i>Spencer W. Merritt</i> DocuSign <i>Patrick M. Hartnett</i></p>			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-L-

FOR -L- PLAN, SEE SHEETS 12 & 13

07 JUL 2022 16:54
C:\p1\54
Comp\1000000000\18.dgn
spencer.merritt

SURVEY CONTROL SHEET 5C.039062

GRANVILLE COUNTY SR 1409

(CONWAY ELLIOT RD)

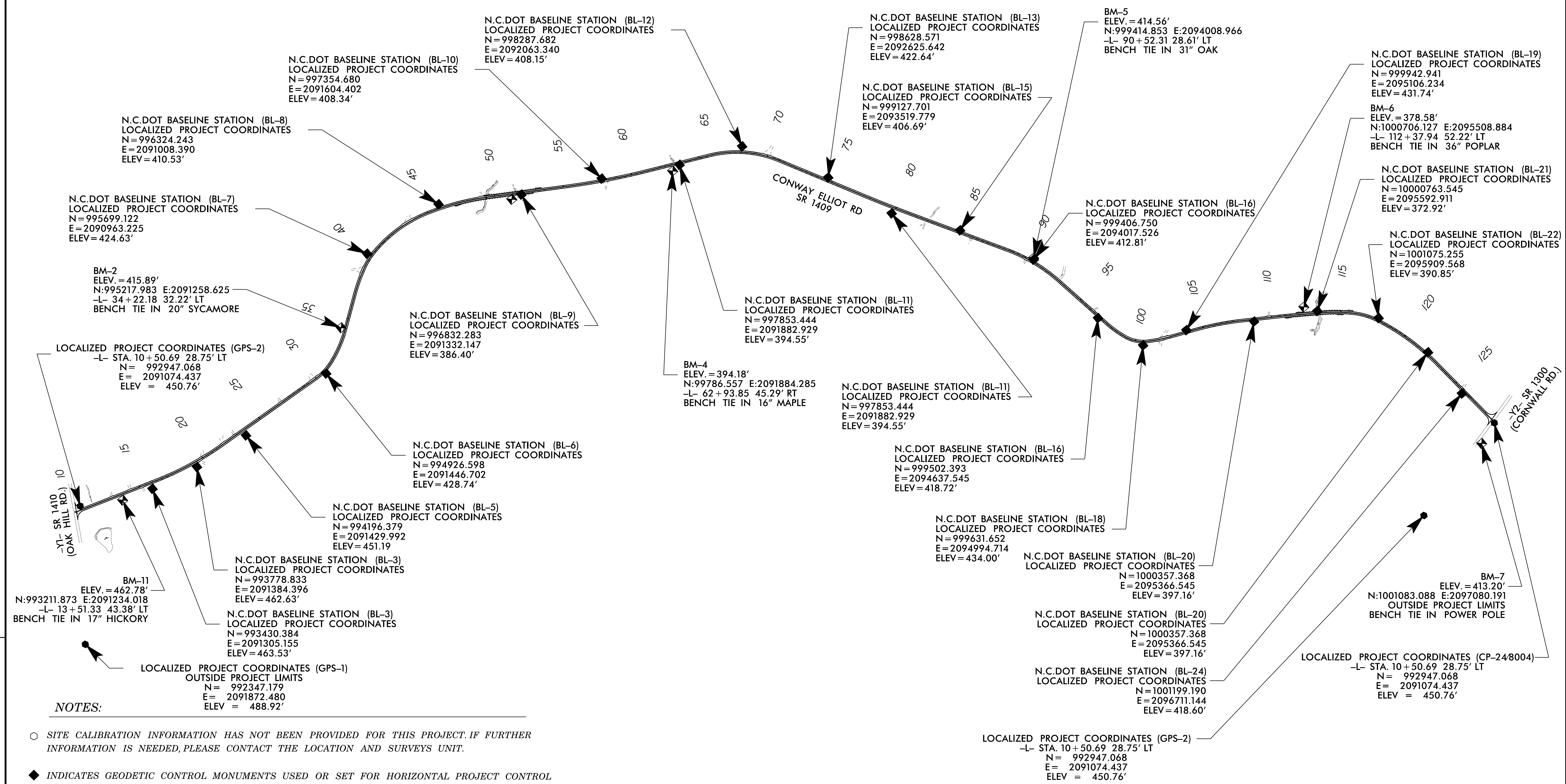
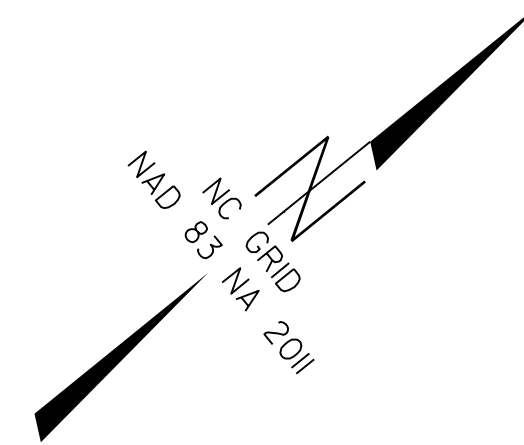
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "GPS-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 992947.0680 (ft) EASTING: 2091074.4370 (ft) ELEVATION: 450.76 (ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.000090300 (1/X= 0.999909708)

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-2" TO EX. PK IS
 S 12°17'05" E 58.45 (ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88



NOTES:

- SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- ◆ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
- INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR VERTICAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT. PROJECT CONTROL ESTABLISHED USING GNSS (GLOBAL NAVIGATION SATELLITE SYSTEM).

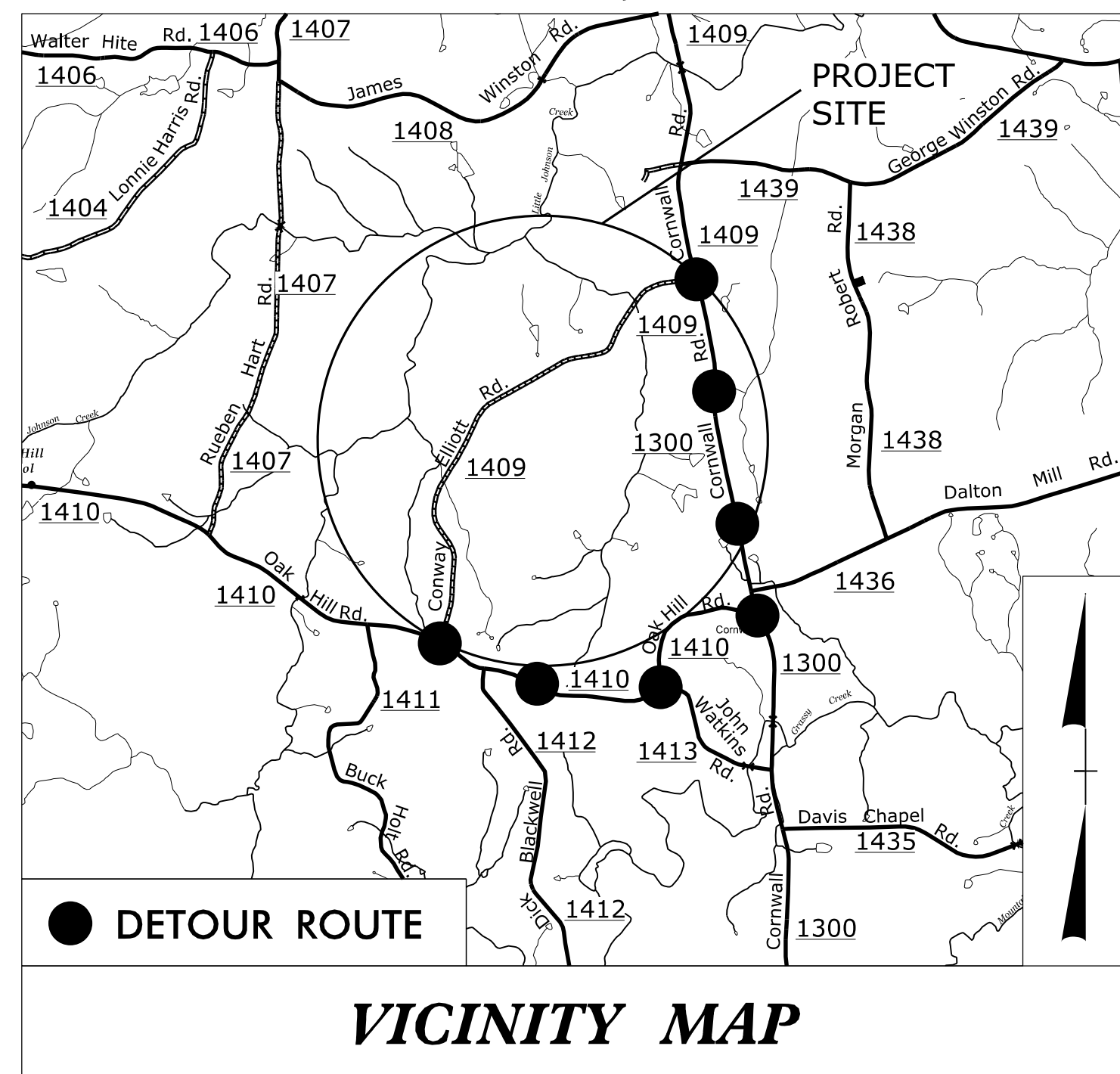
NOTE: DRAWING NOT TO SCALE

REVISIONS

07-JUL-2022, IT-33
 Conway 2022 RW-1.dwg
 Spencer, Merritt

TIP PROJECT: 5C.039062

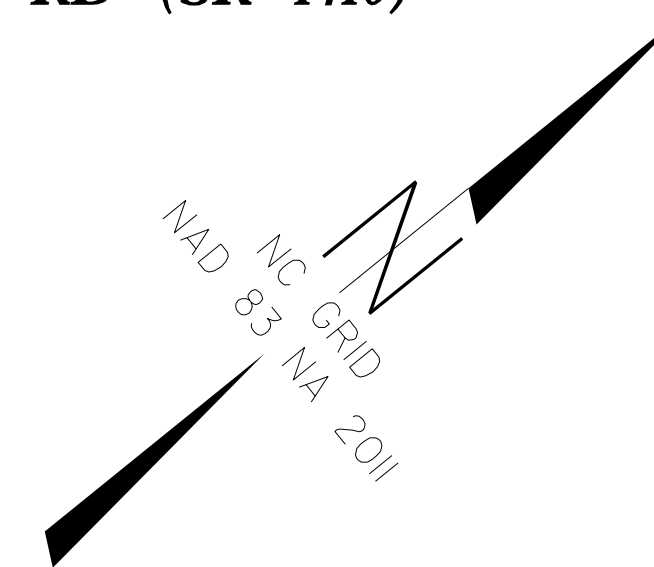
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C-1 For Survey Control Sheet



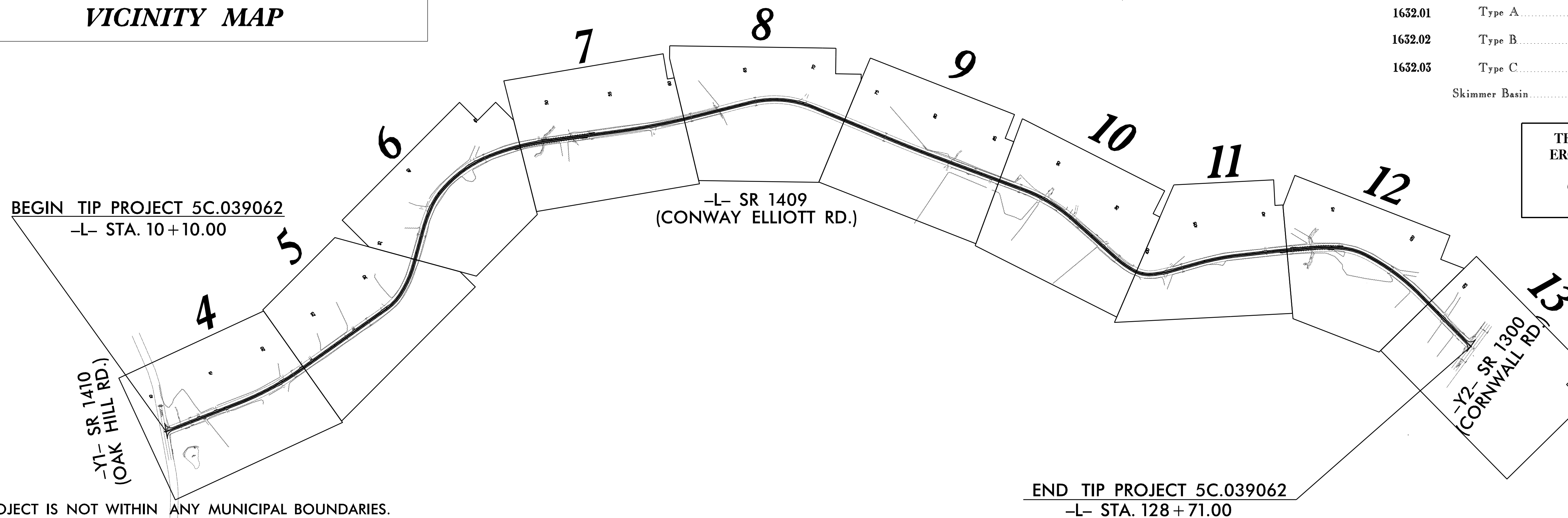
PLAN FOR PROPOSED ROADWAY EROSION CONTROL GRANVILLE COUNTY

**LOCATION: CONWAY ELLIOTT RD (SR 1409) FROM OAK HILL RD (SR 1410)
TO CORNWALL RD (SR 1300).**

TYPE OF WORK: GRADING, DRAINAGE & PAVING.



VICINITY MAP



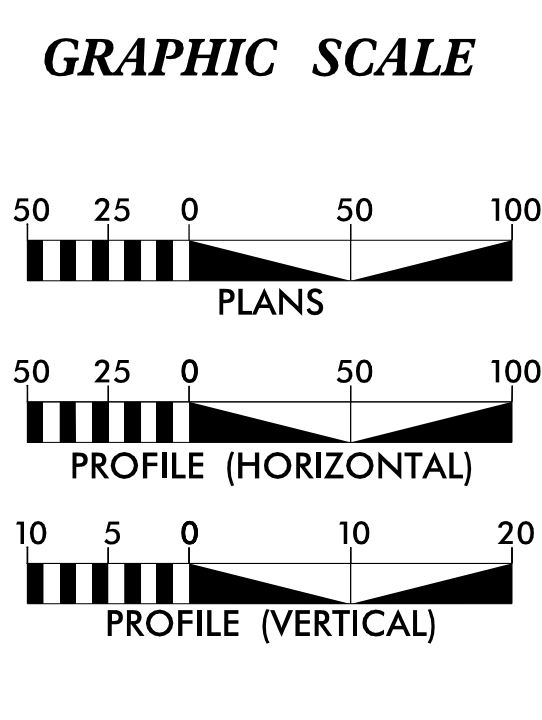
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	5C.039062	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Sid. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	RS
1633.02	Temporary Rock Silt Check Type-B with Matting and Polyacrylamide (PAM)	RS
1633.02	Temporary Rock Silt Check Type-B	RS
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPI
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPI
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SB
Rock Inlet Sediment Trap:		
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SB

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.



**THESE EROSION AND SEDIMENT CONTROL
PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY
THE NCG-010000 GENERAL CONSTRUCTION
PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA
DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER
RESOURCES.**



Prepared in the Office of:
**100 East Six Forks Rd.
Raleigh, NC 27609**
Voice: (919)322-0115
Fax: (919)732-6676
www.summitde.net

Designed by:
PATRICK HARTNETT 4124
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

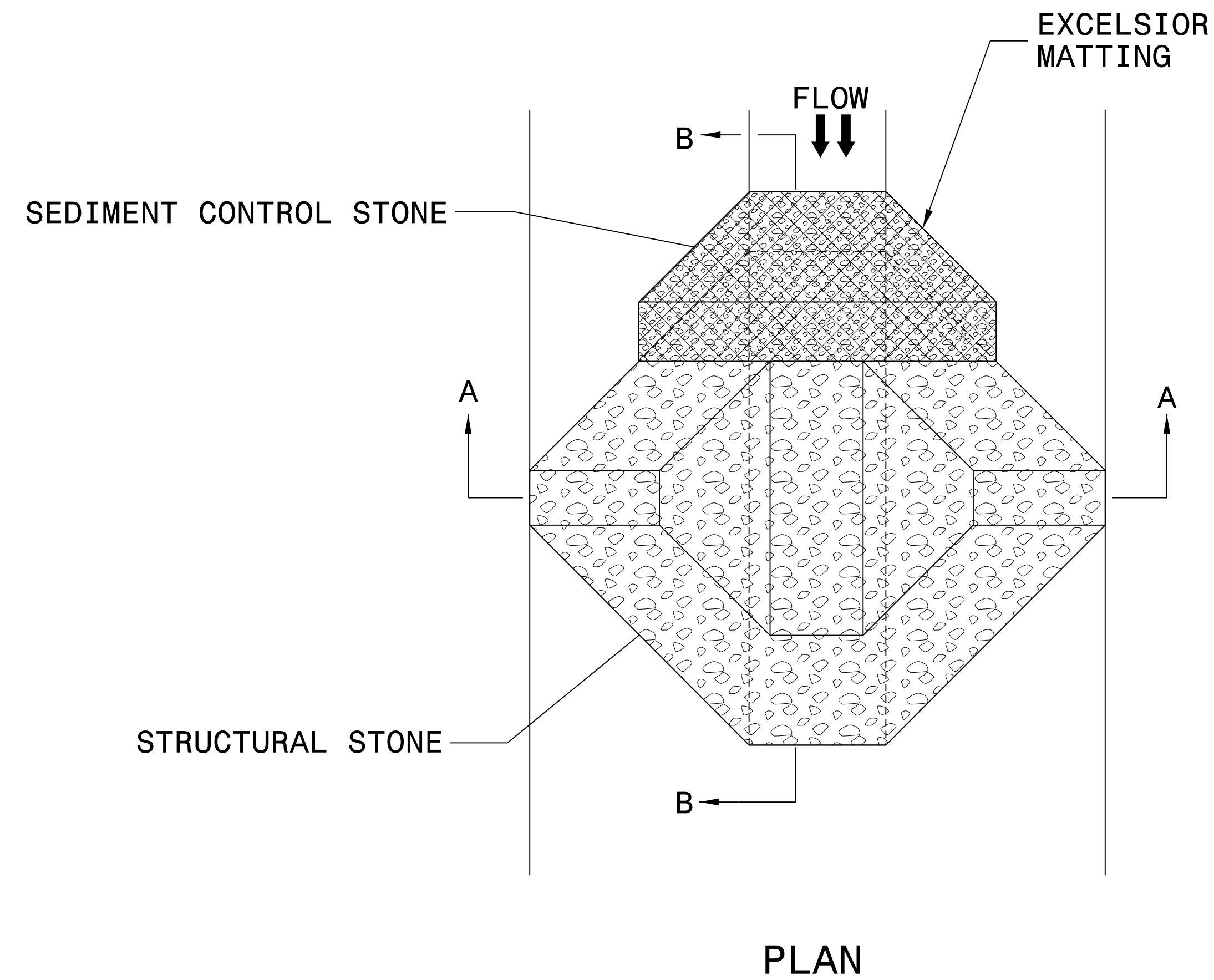
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Silt Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

I:\20-07-jul-2022 16:57 - Secondary Rd Maint\Site 6 - Conway Elliott_Rd\Design\Environmental\Design\Conway_EC.tah.dgn

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



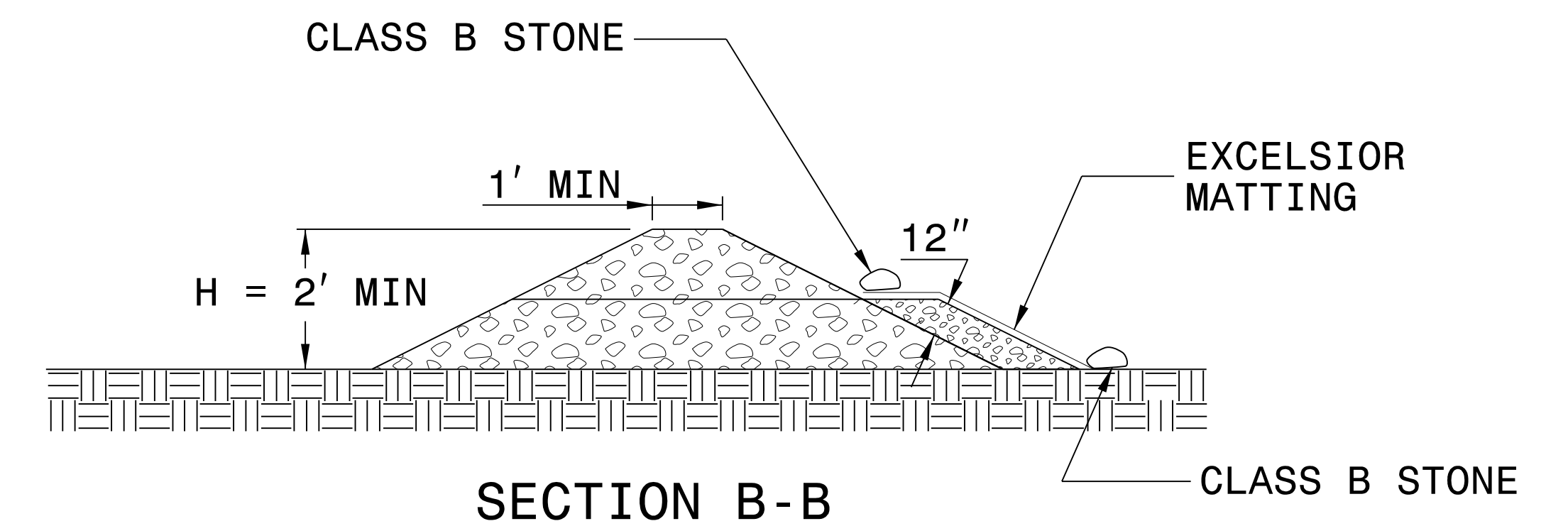
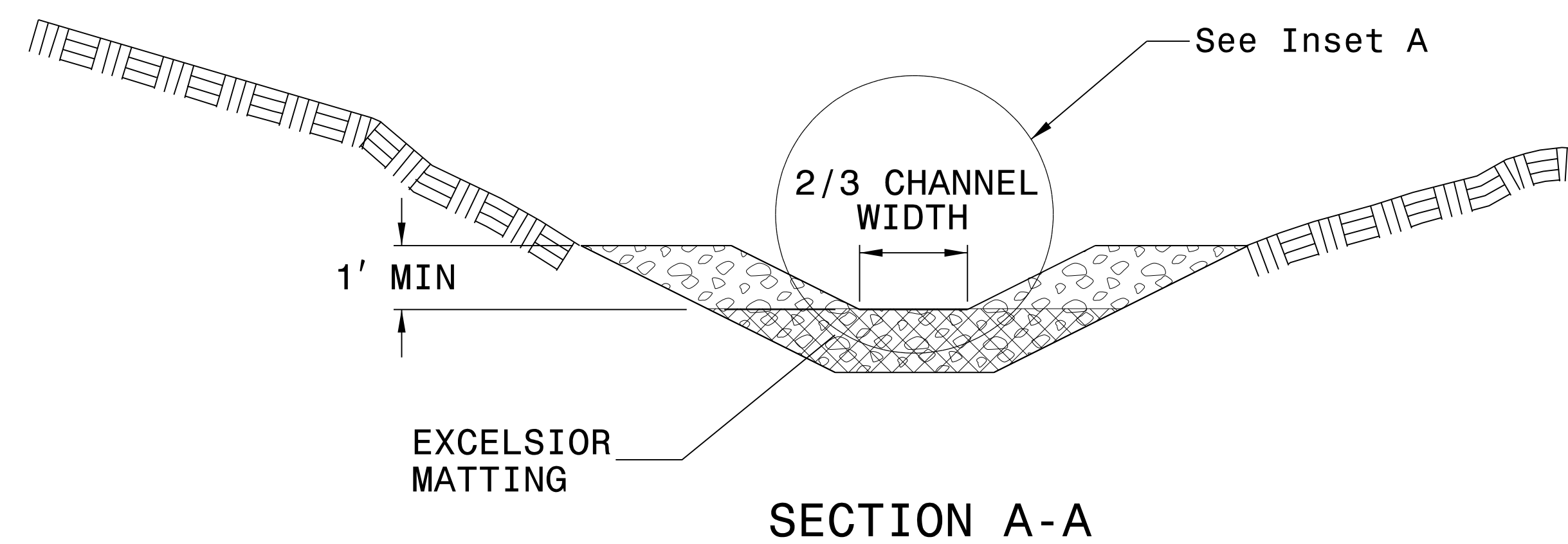
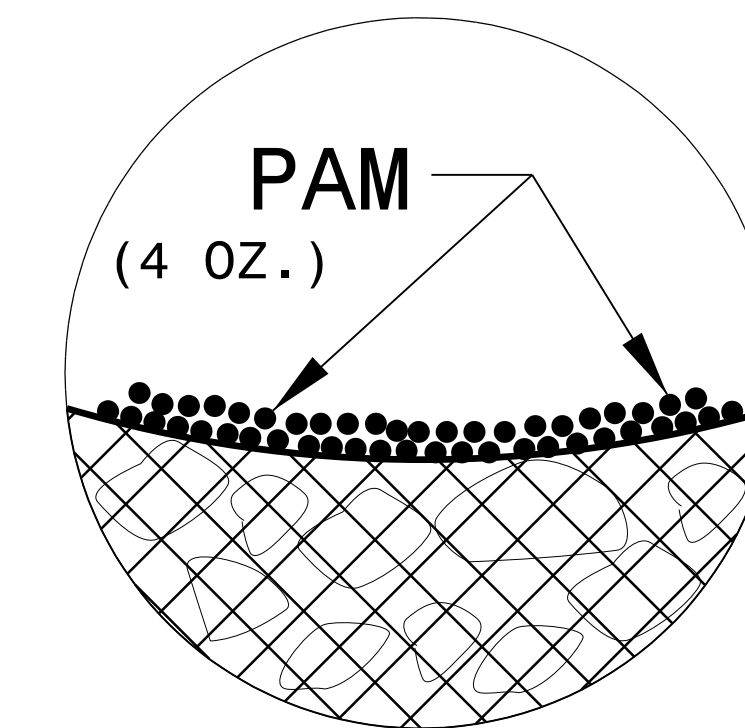
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

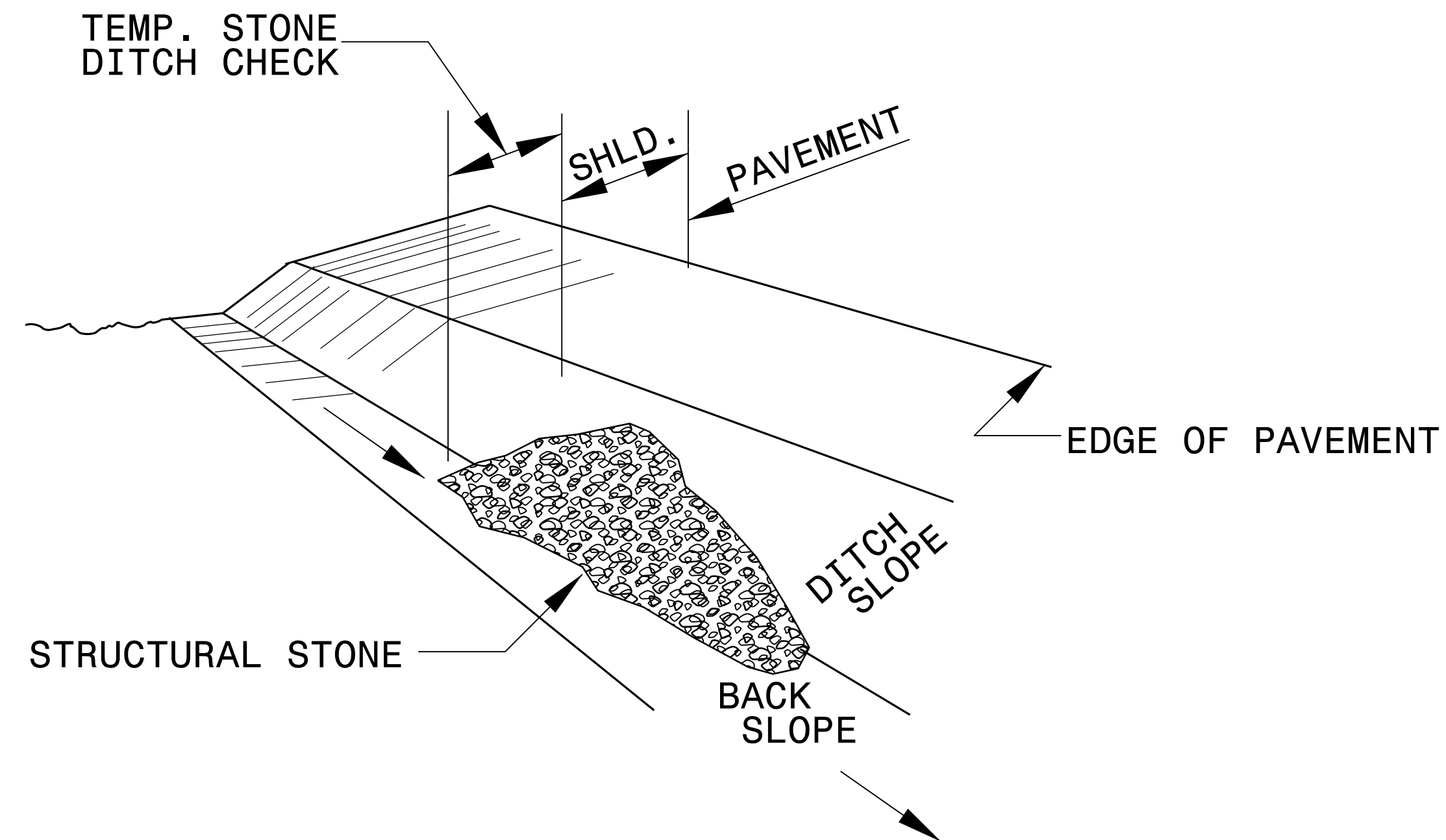
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



NOT TO SCALE

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

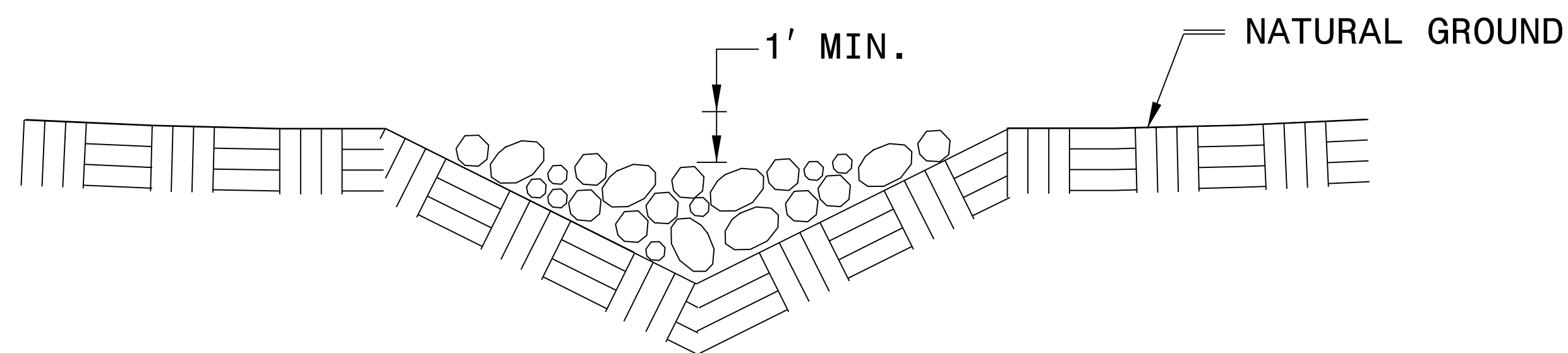


ISOMETRIC VIEW

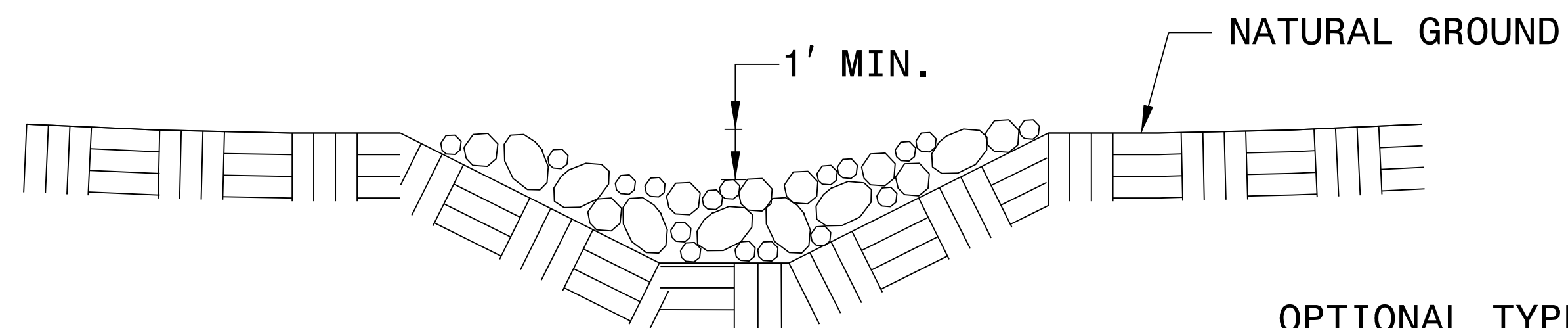
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

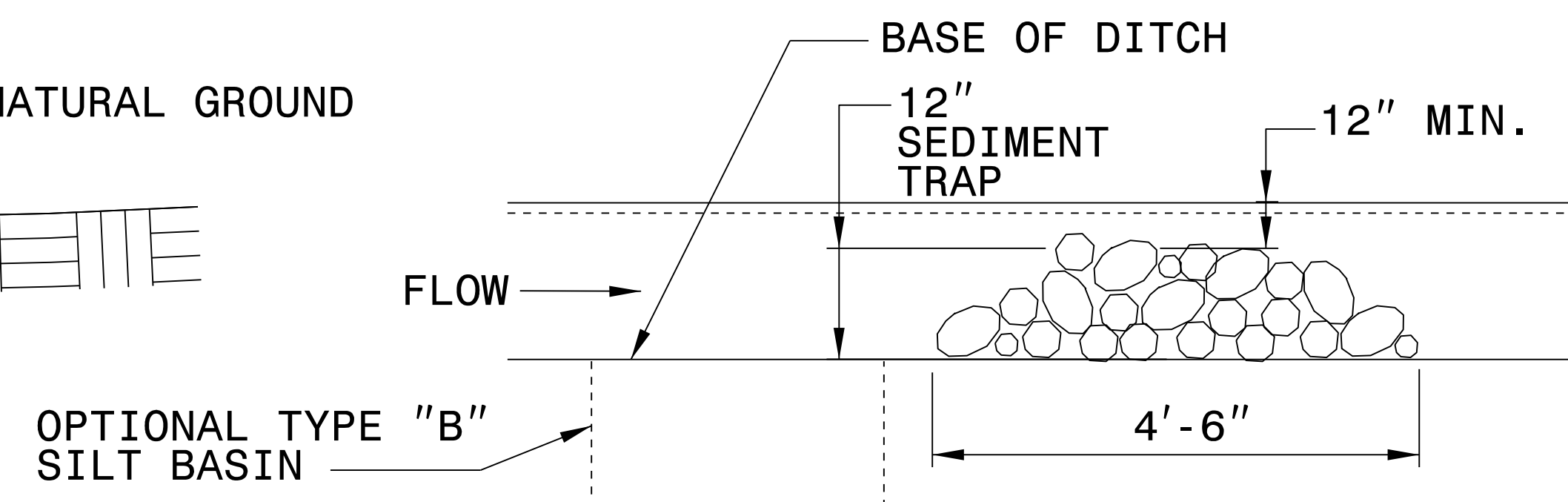
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



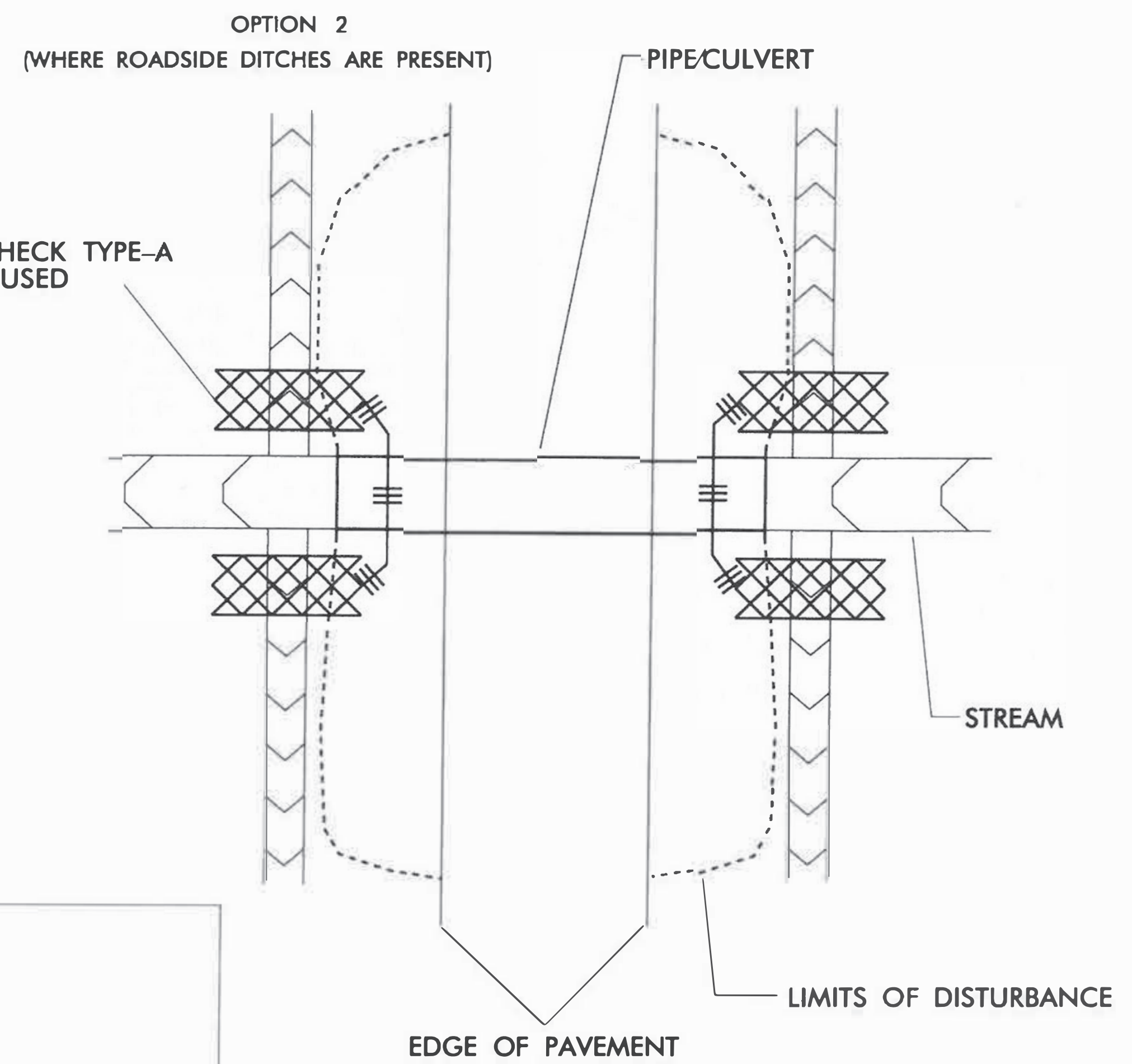
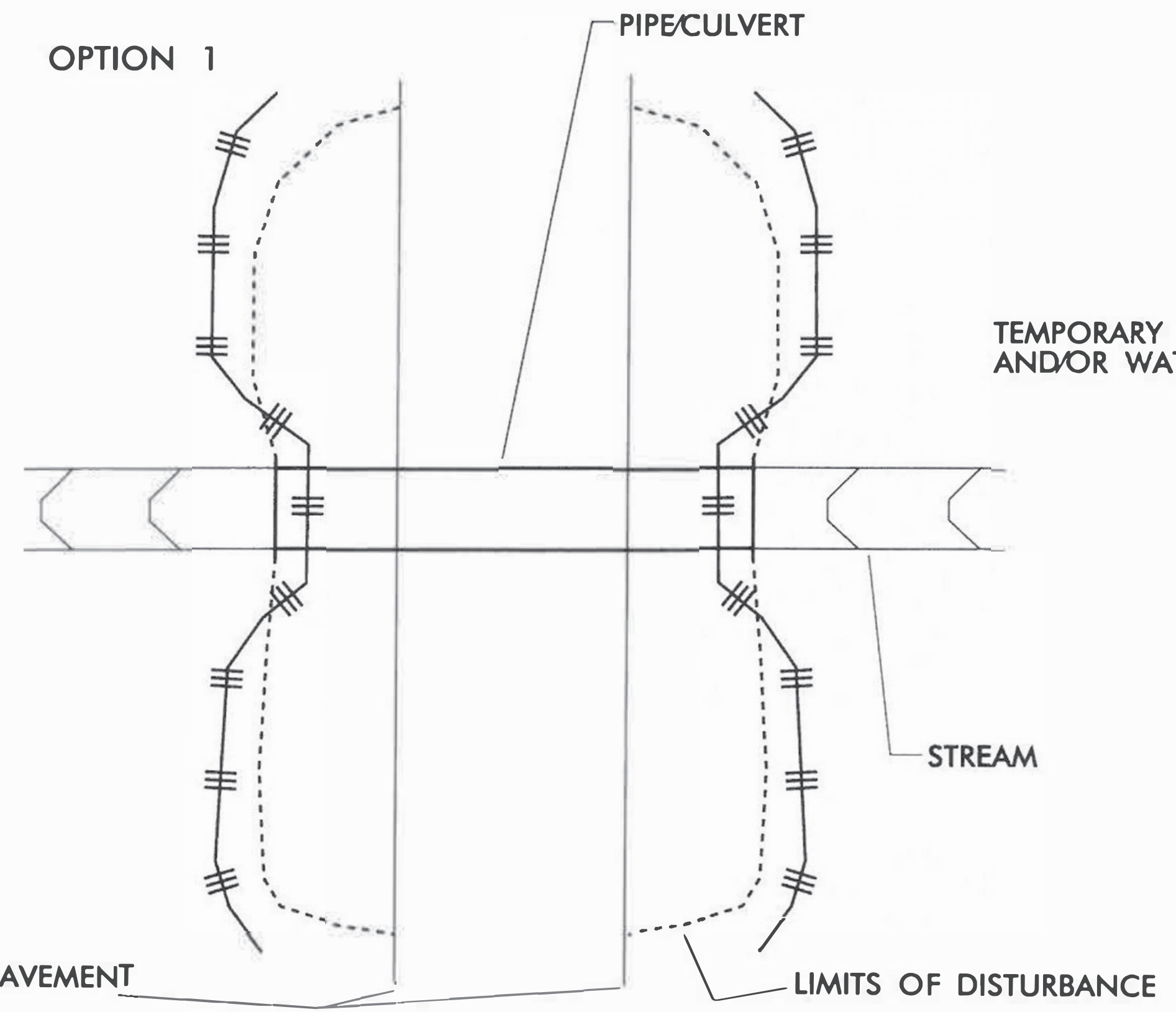
ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
5C.039062	EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ROADSIDE ENVIRONMENTAL UNIT
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
2018 STANDARD SPECIFICATIONS
DRAWINGS NOT DRAWN TO SCALE

LEGEND:

	IMPERVIOUS DIKE
	PUMP
	SPECIAL STILLING BASIN
	STABILIZED DISCHARGE PAD (GEOTEXTILE)
	EOP
	ETF
	TEMPORARY ROCK SILT CHECK TYPE-A AND/OR WATTLE
	TEMPORARY SILT FENCE

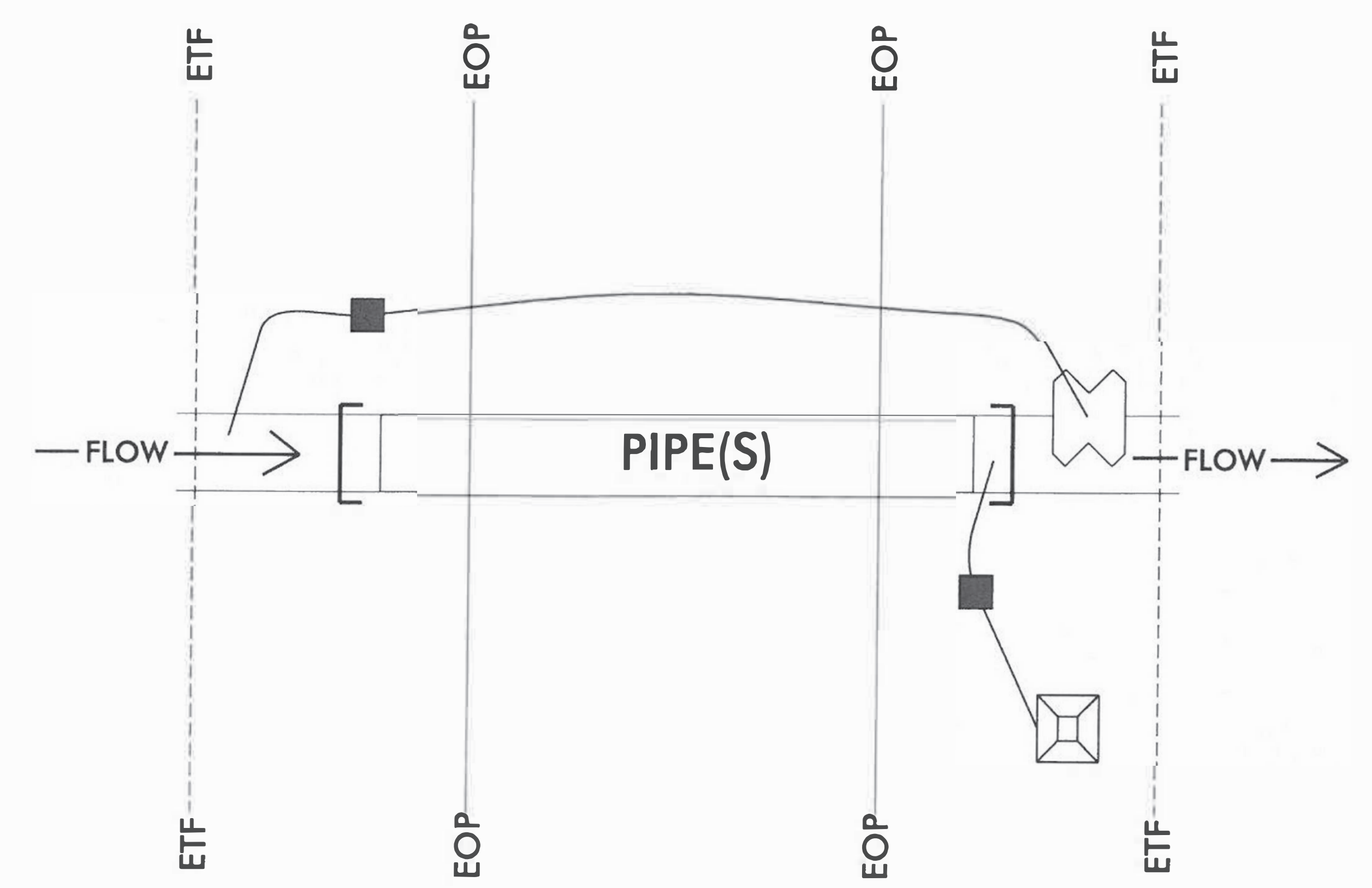


SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA:

1. INSTALL SPECIAL STILLING BASIN.
2. INSTALL UPSTREAM PUMP, TEMPORARY FLEXIBLE HOSE, AND STABILIZED DISCHARGE PAD.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION DISCHARGING ONTO STABILIZED OUTLET PAD.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER WORK ZONE. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. INSTALL PIPE(S), STREAM BED STABILIZATION, AND SLOPE STABILIZATION AS DIRECTED.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, TEMPORARY FLEXIBLE HOSE, AND STABILIZED DISCHARGE PAD. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. REMOVE SPECIAL STILLING BASIN AND RESTORE AREA TO ORIGINAL CONDITIONS.
8. STABILIZE ALL DISTURBED AREAS THROUGHOUT PROJECT WITH SEED AND MATTING FOR EROSION CONTROL.

NOTES:

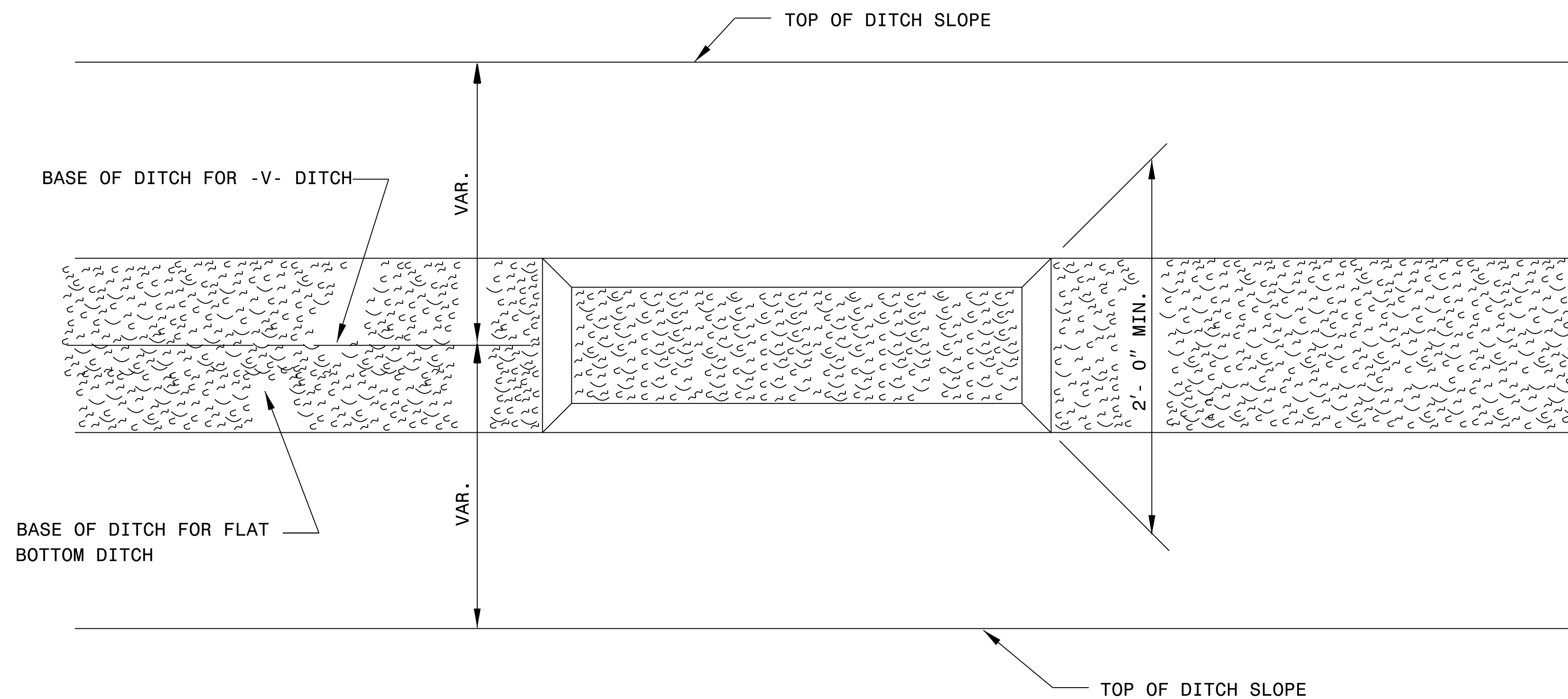
INSTALL EROSION CONTROL MEASURES PRIOR TO ANY EARTH DISTURBING ACTIVITIES. INSTALL SPECIAL SEDIMENT CONTROL FENCE BREAKS OR TEMPORARY ROCK SILT CHECKS TYPE-A AT LOW POINTS IN SILT FENCE.
FOR OPTION 1 INSTALL SILT FENCE SUCH THAT ALL EARTH DISTURBANCE IS CONTAINED. FOR CULVERT CONSTRUCTION SEQUENCING SEE THE PUMP AROUND DETAIL OR CONSULT "BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES".
ALL EXCAVATION IN JURISDICTIONAL STREAMS SHALL BE PERFORMED IN ONLY DRY OR ISOLATED SECTIONS OF THE WORK ZONE.
IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW WHEN NECESSARY. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES THE DISCHARGE PAD, DIVERSION PIPES, PUMPS, AND HOSES.
PUMPS AND HOSES SHALL BE OF SUFFICIENT SIZE TO MAINTAIN STREAM FLOW AND TO DEWATER THE WORK AREA.
INSTALL SPECIAL STILLING BASIN IN VEGETATED AREA WITHIN RIGHT OF WAY. DISCHARGE SHOULD BE DIRECTED THROUGH VEGETATED BUFFER AWAY FROM WORK SITE.
INSTALL SILT FENCE AS DIRECTED TO CONTAIN DISTURBED AREAS AND/OR EXCAVATED STOCKPILES. BORROW MATERIAL FROM OR DISPOSAL OF MATERIAL TO ANY UNPERMITTED SITE WILL REQUIRE A RECLAMATION PLAN.
INSTALL PIPE(S) IN JURISDICTIONAL AREAS IN ACCORDANCE WITH NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.



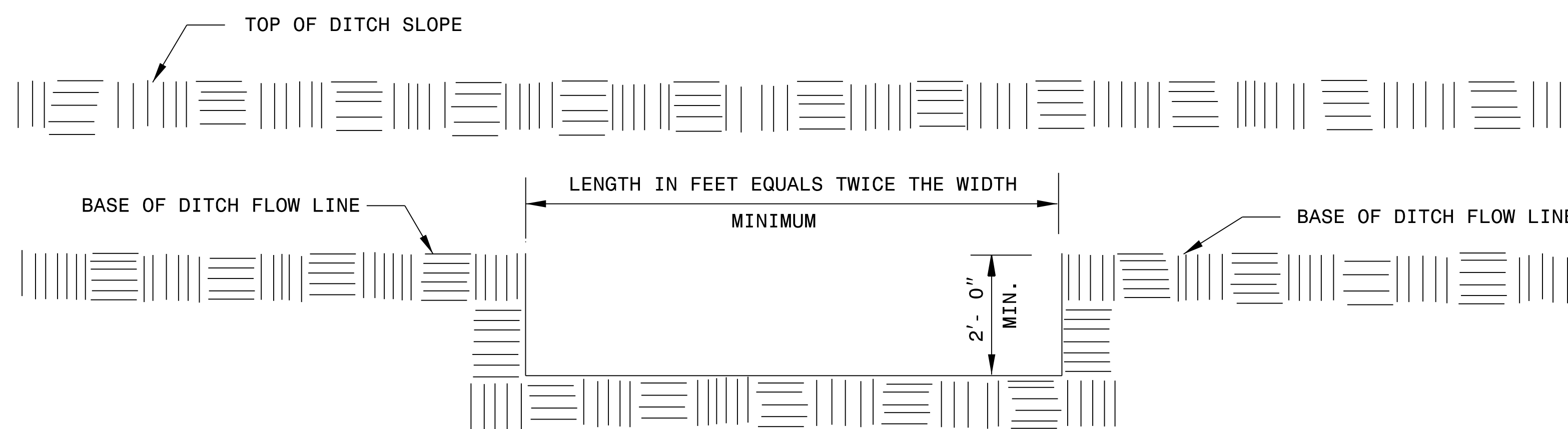
PUMP-AROUND OPERATION FOR PIPE REPLACEMENT IN JURISDICTIONAL STREAMS EROSION CONTROL DETAIL

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN TYPE 'B'



PLAN



ELEVATION

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER


SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

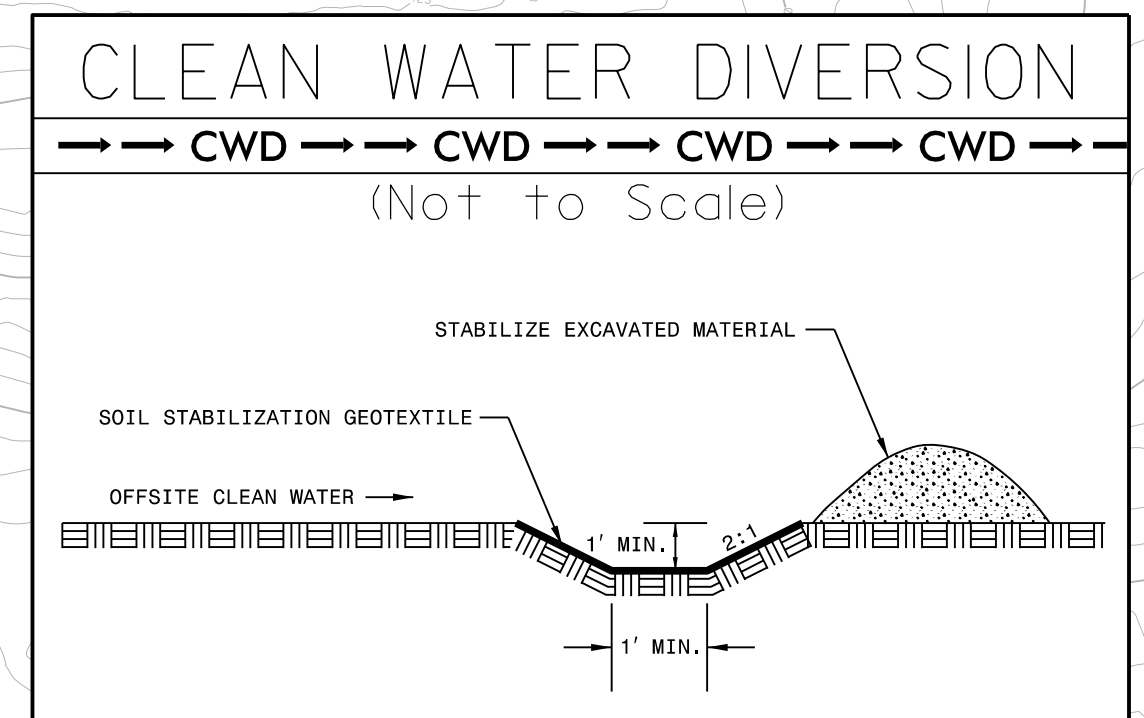
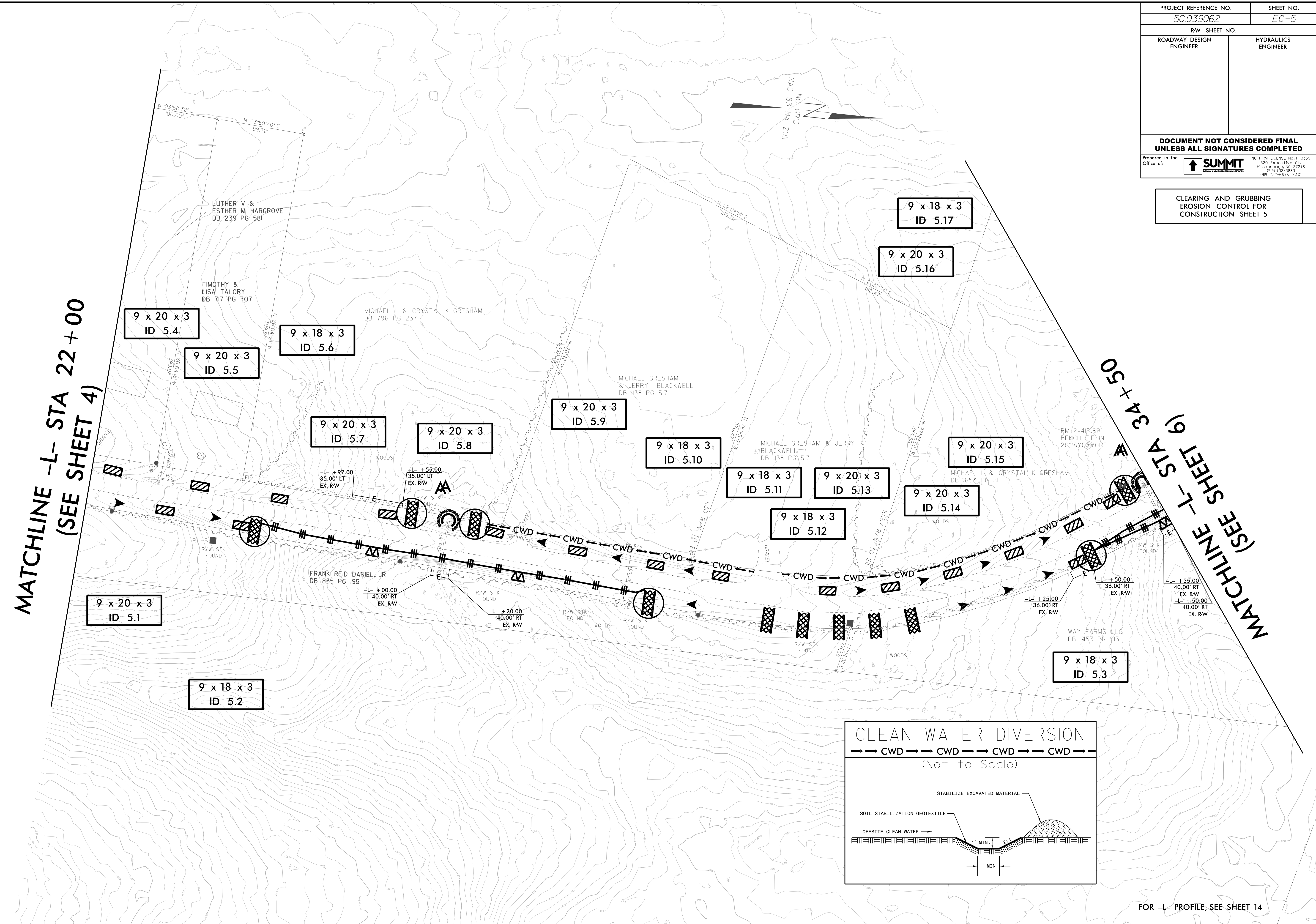
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)	
4	-L-	13+00	19+50	LT	390	
	-L-	20+50	22+50	LT	120	
	-L-	26+09	29+50	LT	105	
	-L-	30+50	31+50	LT	30	
	-L-	34+50	38+00	LT	125	
	-L-	39+00	44+50	LT	195	
	-L-	55+00	58+00	LT	105	
	-L-	58+50	60+50	LT	70	
	-L-	61+50	63+00	LT	75	
	-L-	67+00	75+50	LT	390	
	-L-	77+50	79+50	LT	70	
	-L-	87+50	89+50	LT	50	
	-L-	98+00	101+50	LT	140	
	-L-	102+50	103+00	LT	15	
	-L-	115+50	116+00	LT	20	
	-L-	117+50	121+50	LT	160	
			SUBTOTAL		2,060	
	ADDITIONAL MATTING TO BE INSTALLED AS DIRECTED BY ENGINEER					0
			TOTAL		*SEE EC-3B	
			SAY		*SEE EC-3B	

PERMANENT SOIL REINFORCEMENT MAT


CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)	
4	-L-	11+37	13+00	LT	100	
	-L-	22+50	23+50	LT	30	
	-L-	31+50	34+43	LT	90	
	-L-	44+50	49+00	LT	170	
	-L-	51+62	55+00	LT	120	
	-L-	58+00	58+50	LT	20	
	-L-	60+50	61+50	LT	50	
	-L-	63+00	63+18	LT	10	
	-L-	79+50	82+00	LT	90	
	-L-	90+50	92+00	LT	40	
	-L-	103+00	107+50	LT	180	
	-L-	110+50	112+00	LT	50	
	-L-	116+00	117+50	LT	60	
	-L-	121+50	124+00	LT	100	
				SUBTOTAL	1,110	
	ADDITIONAL PSRM TO BE INSTALLED					0
				TOTAL	*SEE EC-3B	
				SAY	*SEE EC-3B	

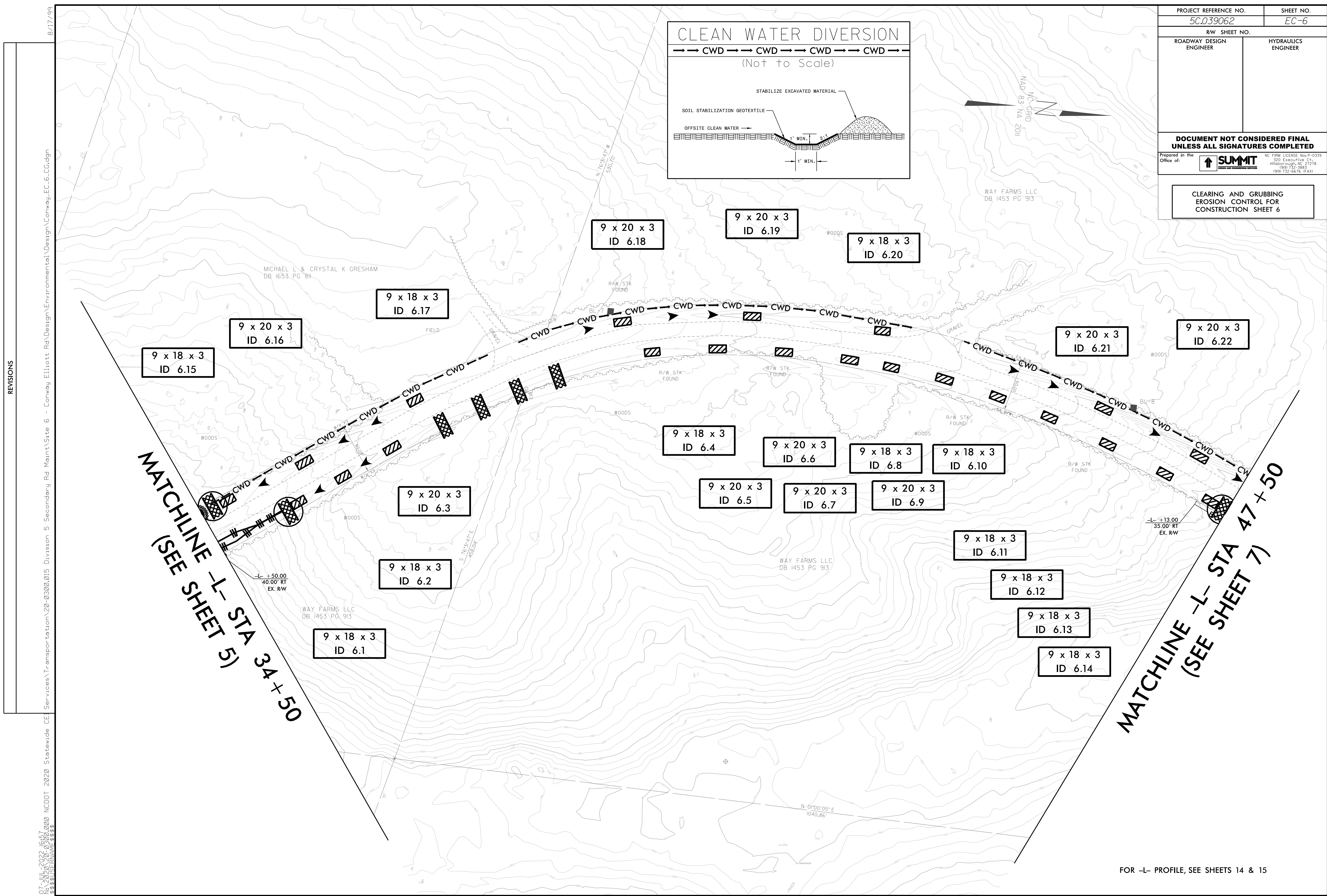
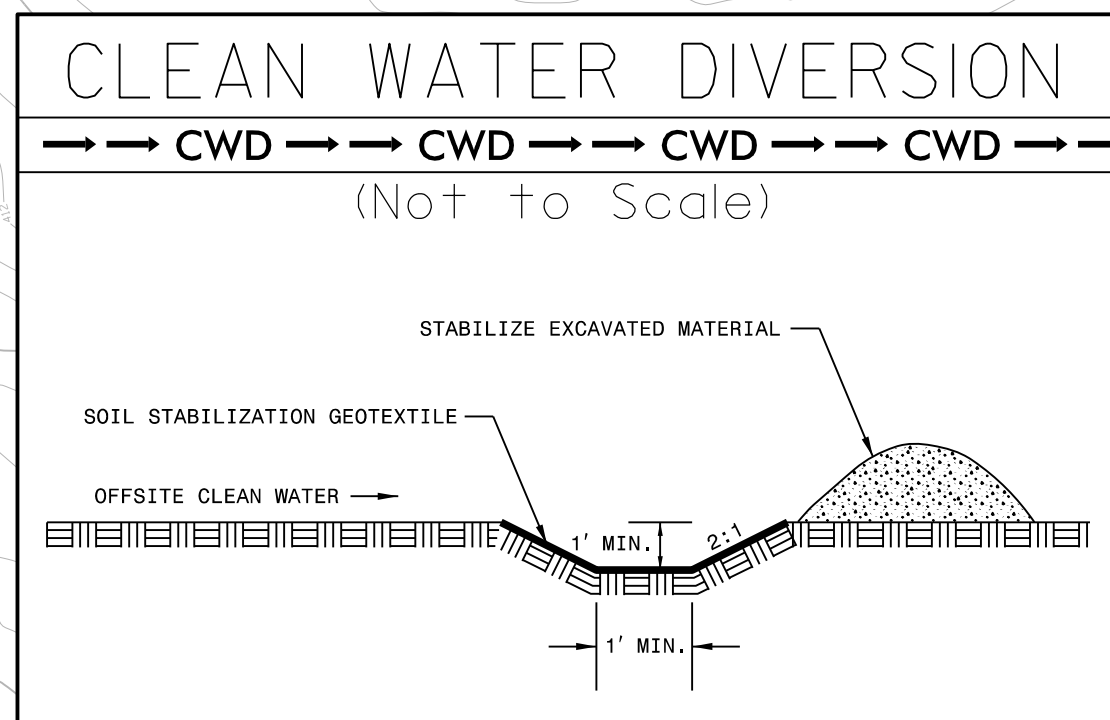
PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5	

8/17/99
 REVISIONS
 07 JUL 2022 15:57
 N:\2020\0300\000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC-5_C6.dgn
 \$\$\$\$\$\$
 \$\$\$\$\$\$
 \$\$\$\$\$\$



FOR -L- PROFILE, SEE SHEET 14

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE: No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6	



REVISIONS

8/17/99
 N:\2020\2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_6_CG.dgn
 07 JUL 2022 15:57
 N:\2020\2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_6_CG.dgn


MATCHLINE -L- STA 34+50
(SEE SHEET 5)

MATCHLINE -L- STA 47+50
(SEE SHEET 7)

FOR -L- PROFILE, SEE SHEETS 14 & 15

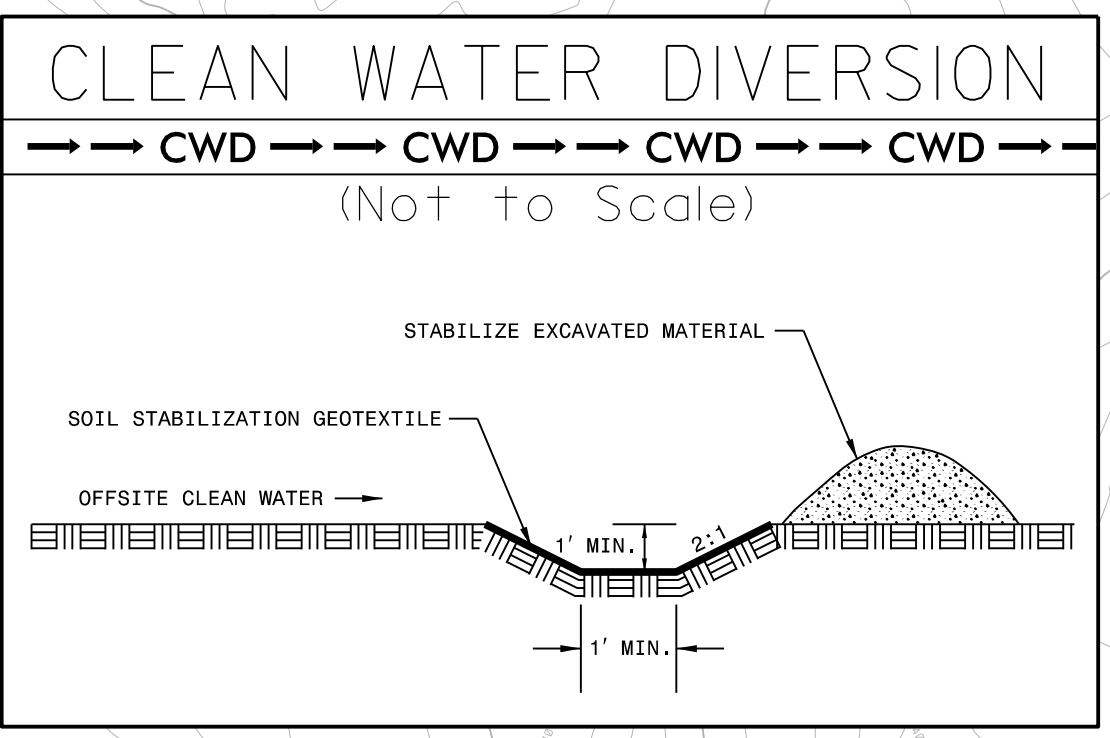
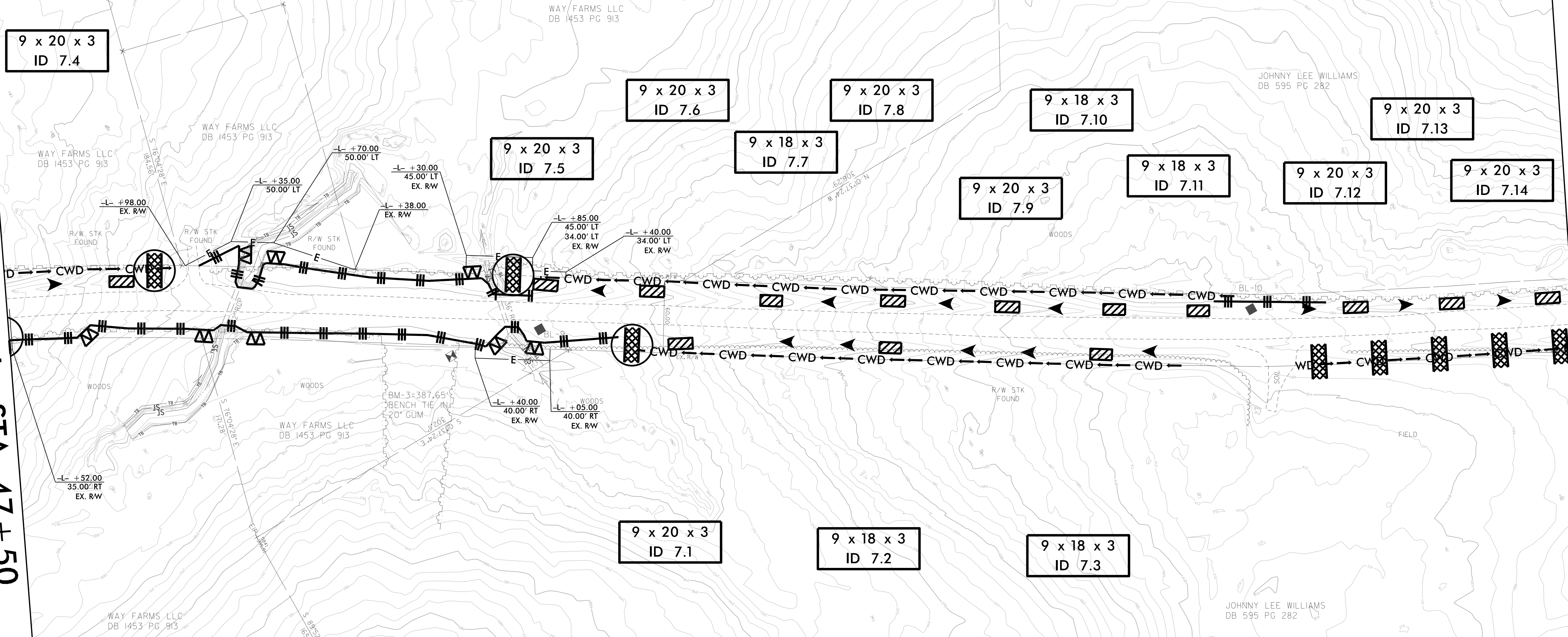
8/17/99

REVISIONS
07 JUL 2022 15:57
N:\2020\2020-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_7.C6.dgn
\$\$\$\$\$ USE ONLY \$\$\$\$\$

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: 	NC FIRM LICENSE No: P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7	

MATCHLINE -L- STA 47+50
(SEE SHEET 6)

MATCHLINE -L- STA 60+50
(SEE SHEET 8)



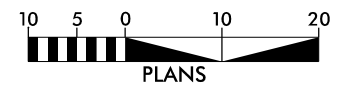
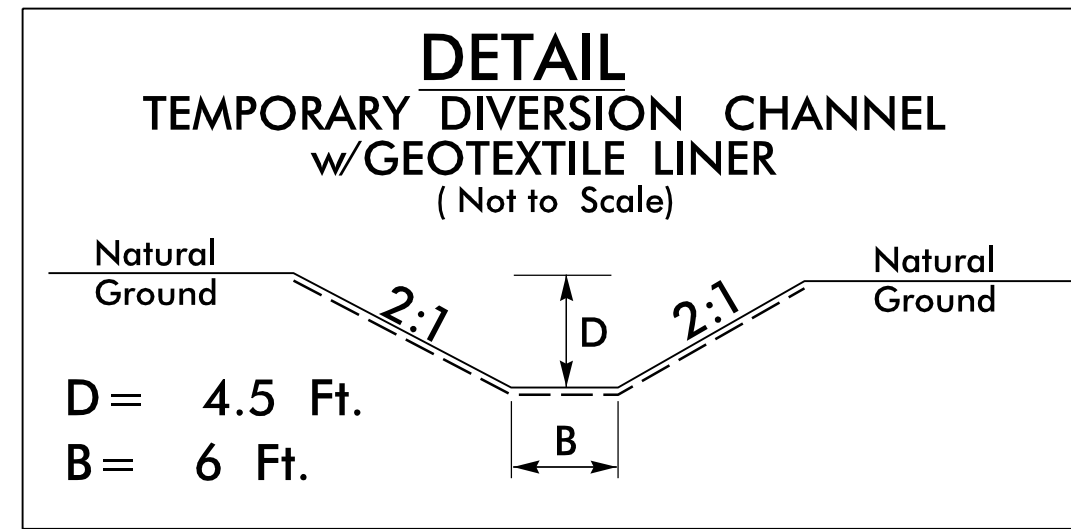
FOR -L- PROFILE, SEE SHEET 15

CONSTRUCTION SEQUENCE
87"x63" ALUMINUM PIPE ARCH

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-7A
RW SHEET NO.	HYDRAULICS
ROADWAY DESIGN ENGINEER	ENGINEER

NOTES (FOR ALL PHASES)

1. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW AS NECESSARY.
2. PUMPS AND HOSES SHALL BE SUFFICIENT SIZE TO DEWATER THE WORK AREA.
3. ALL GRADED AREAS SHALL BE STABILIZED WITHIN 24 HOURS.
4. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS AND HOSES.
5. THE CONTRACTOR SHALL NOT PUMP SEDIMENT-LADEN WATER DIRECTLY INTO STREAM. FOR DEWATERING OF CULVERT SITES, THE CONTRACTOR SHALL FILTER SEDIMENT-LADEN WATER THROUGH STILLING BASIN AND/OR SPECIAL STILLING BASIN.
6. THE CONTRACTOR MAY SUBMIT PLANS TO UTILIZE DIKE AND PUMP-AROUND OPERATION. PLANS MUST BE REVIEWED AND APPROVED BY NCDOT. AN ADEQUATE PUMP SIZE AND TYPE MUST BE SPECIFIED ON THE PLANS. PLANS MUST BE PREPARED BY AN NCDOT LEVEL III CERTIFIED DESIGNER.

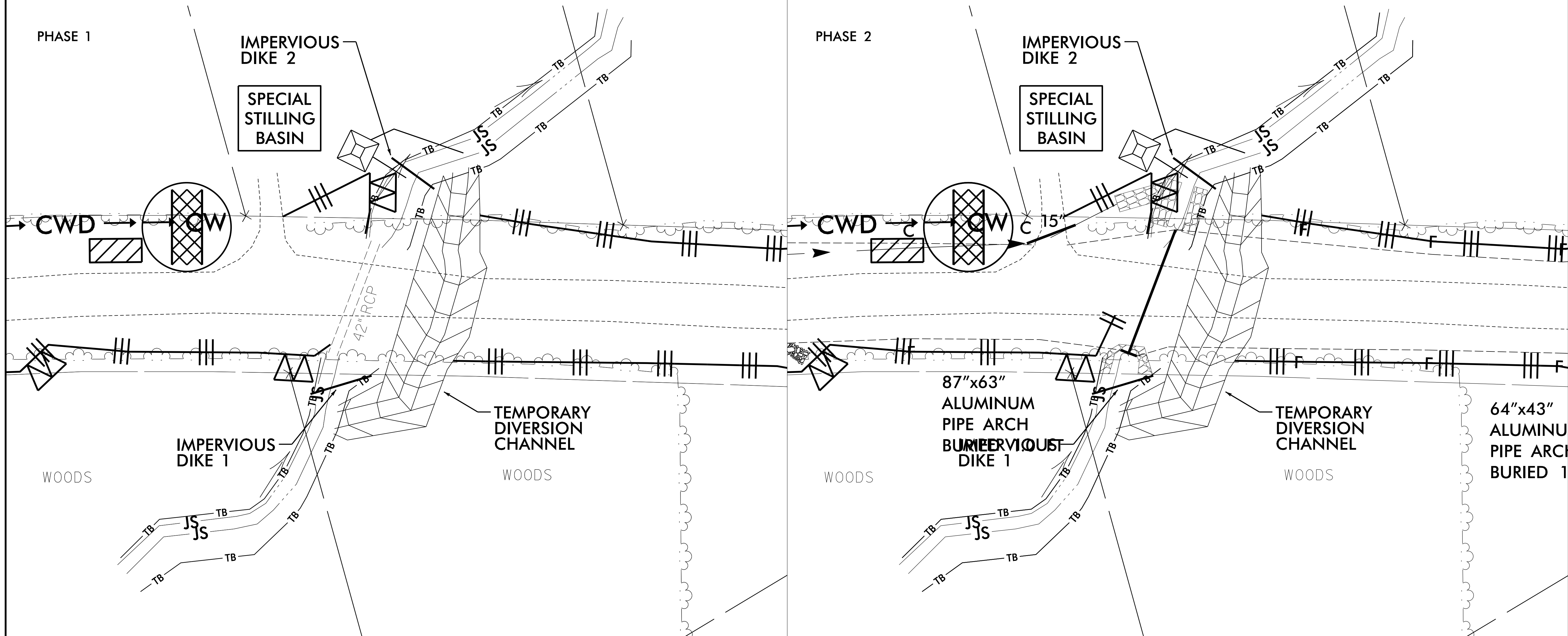


PHASE 1
CULVERT CONSTRUCTION

1. INSTALL PERIMETER SEDIMENT CONTROL DEVICES ALONG AND ADJACENT TO STREAM TO THE GREATEST EXTENT POSSIBLE.
2. INSTALL SPECIAL STILLING BASIN IN FIELD DETERMINED LOCATION.
3. EXCAVATE AND CONSTRUCT TEMPORARY DIVERSION CHANNEL WITH GEOTEXTILE LINER WHILE PROVIDING ADEQUATE CLEARANCE FROM THE WORK AREA.
4. INSTALL IMPERVIOUS DIKES 1 AND 2 TO DIVERT ALL CHANNEL FLOW THROUGH TEMPORARY DIVERSION CHANNEL.
5. DEWATER WORK AREA USING SPECIAL STILLING BASIN AS NEEDED.

PHASE 2
CULVERT CONSTRUCTION

1. ADJUST PERIMETER SEDIMENT CONTROL DEVICES ALONG AND ADJACENT TO STREAM TO THE GREATEST EXTENT POSSIBLE.
2. REMOVE THE EXISTING 42" RCP.
3. EXCAVATE AND INSTALL 87"x63" ALUMINUM PIPE ARCH. INSTALL RIPRAP TO THE GREATEST EXTENT POSSIBLE. BACKFILL ALUMINUM PIPE ARCH.
4. REMOVE IMPERVIOUS DIKES 1 & 2 AND DIVERT ALL FLOW THROUGH 87"x63" ALUMINUM PIPE ARCH.
5. DEWATER AND REMOVE TEMPORARY DIVERSION CHANNEL UTILIZING SPECIAL STILLING BASINS AS NEEDED.

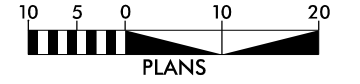
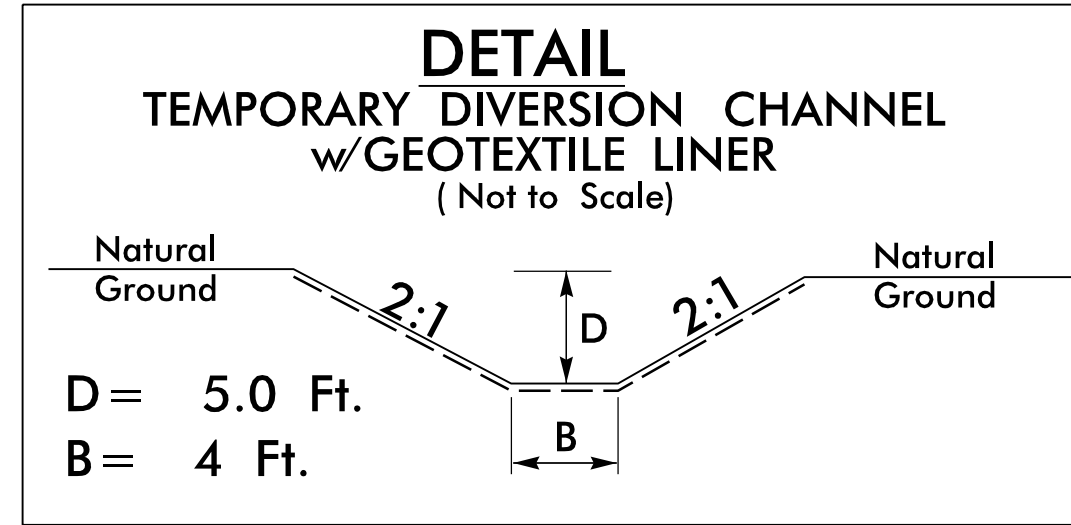


CONSTRUCTION SEQUENCE
64"x43" ALUMINUM PIPE ARCH

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-7B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTES (FOR ALL PHASES)

1. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW AS NECESSARY.
2. PUMPS AND HOSES SHALL BE SUFFICIENT SIZE TO DEWATER THE WORK AREA.
3. ALL GRADED AREAS SHALL BE STABILIZED WITHIN 24 HOURS.
4. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS AND HOSES.
5. THE CONTRACTOR SHALL NOT PUMP SEDIMENT-LADEN WATER DIRECTLY INTO STREAM. FOR DEWATERING OF CULVERT SITES, THE CONTRACTOR SHALL FILTER SEDIMENT-LADEN WATER THROUGH STILLING BASIN AND/OR SPECIAL STILLING BASIN.
6. THE CONTRACTOR MAY SUBMIT PLANS TO UTILIZE DIKE AND PUMP-AROUND OPERATION. PLANS MUST BE REVIEWED AND APPROVED BY NCDOT. AN ADEQUATE PUMP SIZE AND TYPE MUST BE SPECIFIED ON THE PLANS. PLANS MUST BE PREPARED BY AN NCDOT LEVEL III CERTIFIED DESIGNER.

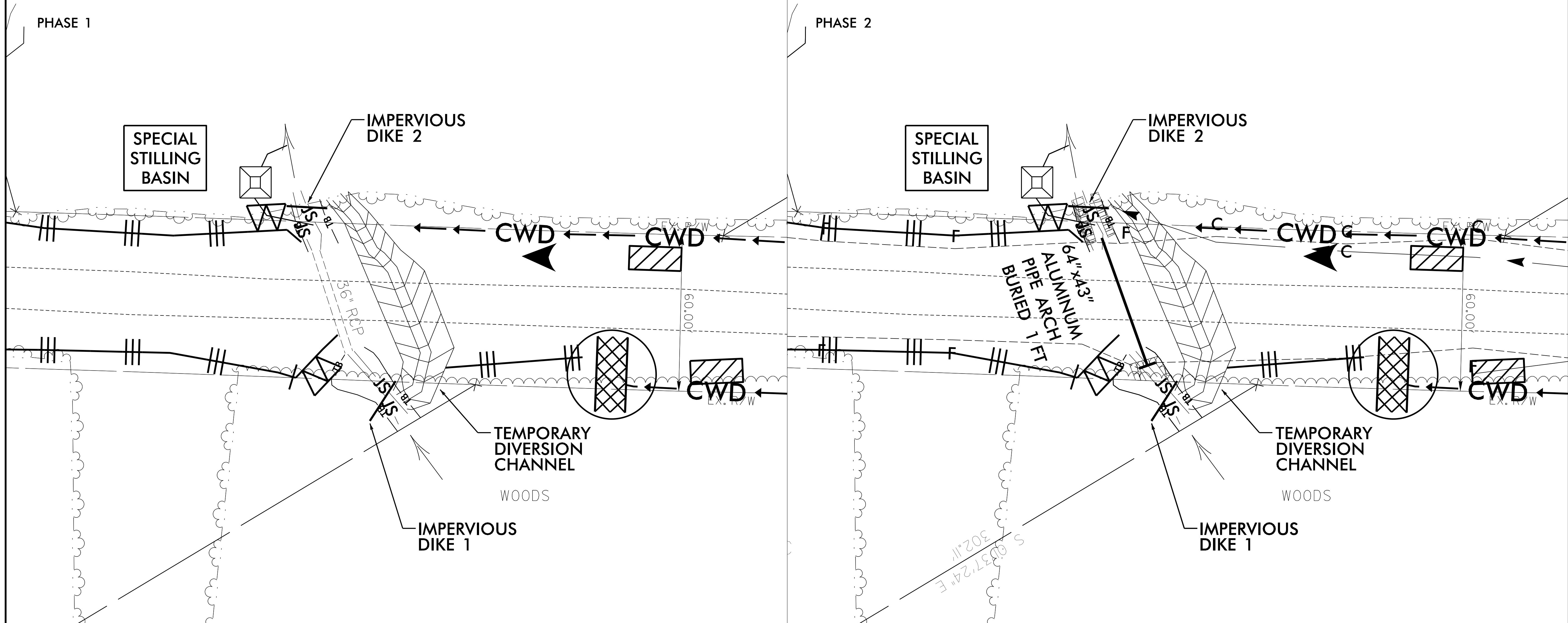



PHASE 1
CULVERT CONSTRUCTION

1. INSTALL PERIMETER SEDIMENT CONTROL DEVICES ALONG AND ADJACENT TO STREAM TO THE GREATEST EXTENT POSSIBLE.
2. INSTALL SPECIAL STILLING BASIN IN FIELD DETERMINED LOCATION.
3. EXCAVATE AND CONSTRUCT TEMPORARY DIVERSION CHANNEL WITH GEOTEXTILE LINER WHILE PROVIDING ADEQUATE CLEARANCE FROM THE WORK AREA.
4. INSTALL IMPERVIOUS DIKES 1 AND 2 TO DIVERT ALL CHANNEL FLOW THROUGH TEMPORARY DIVERSION CHANNEL.
5. DEWATER WORK AREA USING SPECIAL STILLING BASIN AS NEEDED.

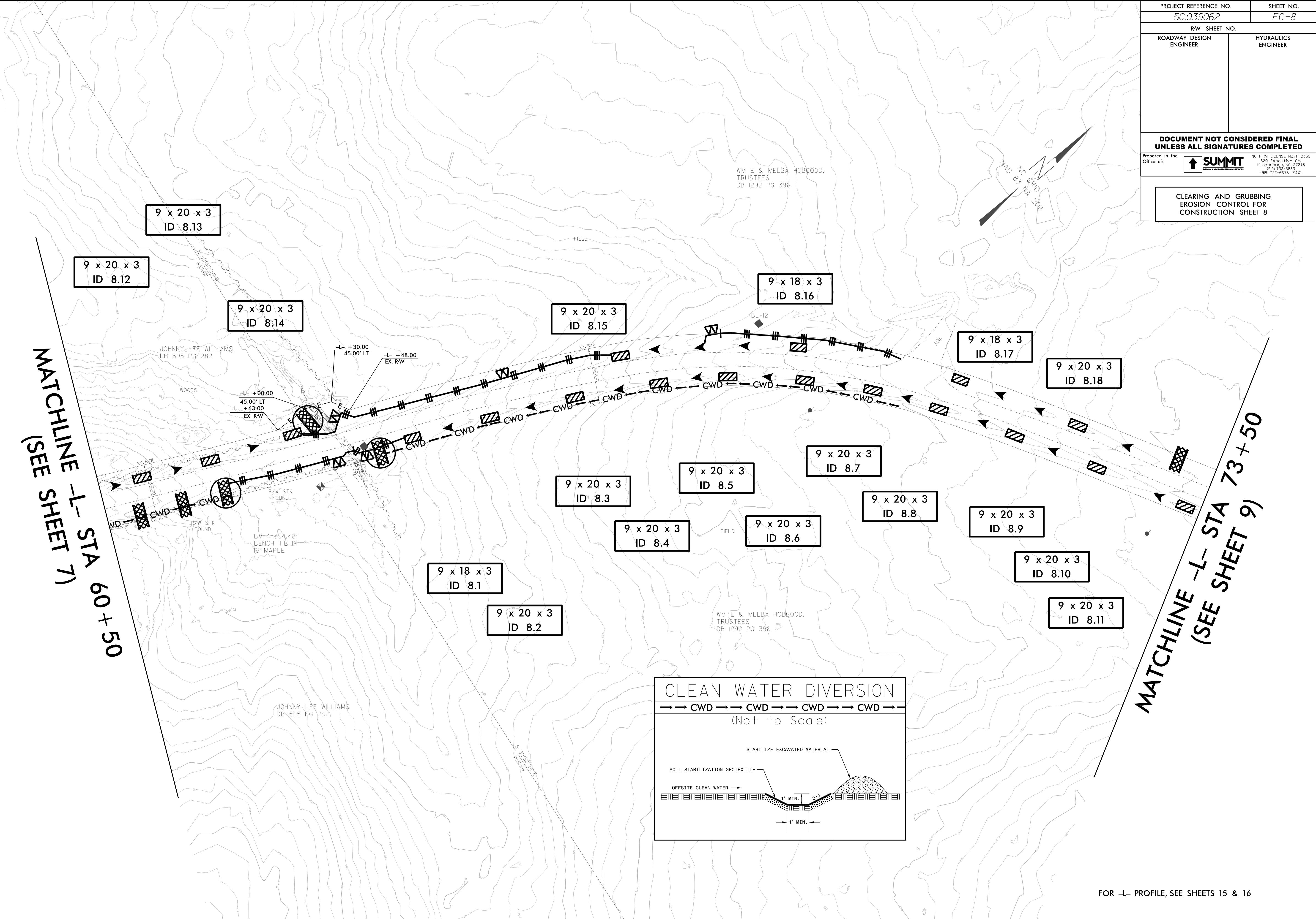
PHASE 2
CULVERT CONSTRUCTION


1. ADJUST PERIMETER SEDIMENT CONTROL DEVICES ALONG AND ADJACENT TO STREAM TO THE GREATEST EXTENT POSSIBLE.
2. REMOVE THE EXISTING 36" RCP.
3. EXCAVATE AND INSTALL 64"x43" ALUMINUM PIPE ARCH. INSTALL RIPRAP TO THE GREATEST EXTENT POSSIBLE. BACKFILL ALUMINUM PIPE ARCH.
4. REMOVE IMPERVIOUS DIKES 1 & 2 AND DIVERT ALL FLOW THROUGH 64"x43" ALUMINUM PIPE ARCH.
5. DEWATER AND REMOVE TEMPORARY DIVERSION CHANNEL UTILIZING SPECIAL STILLING BASINS AS NEEDED.



PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3663 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8	

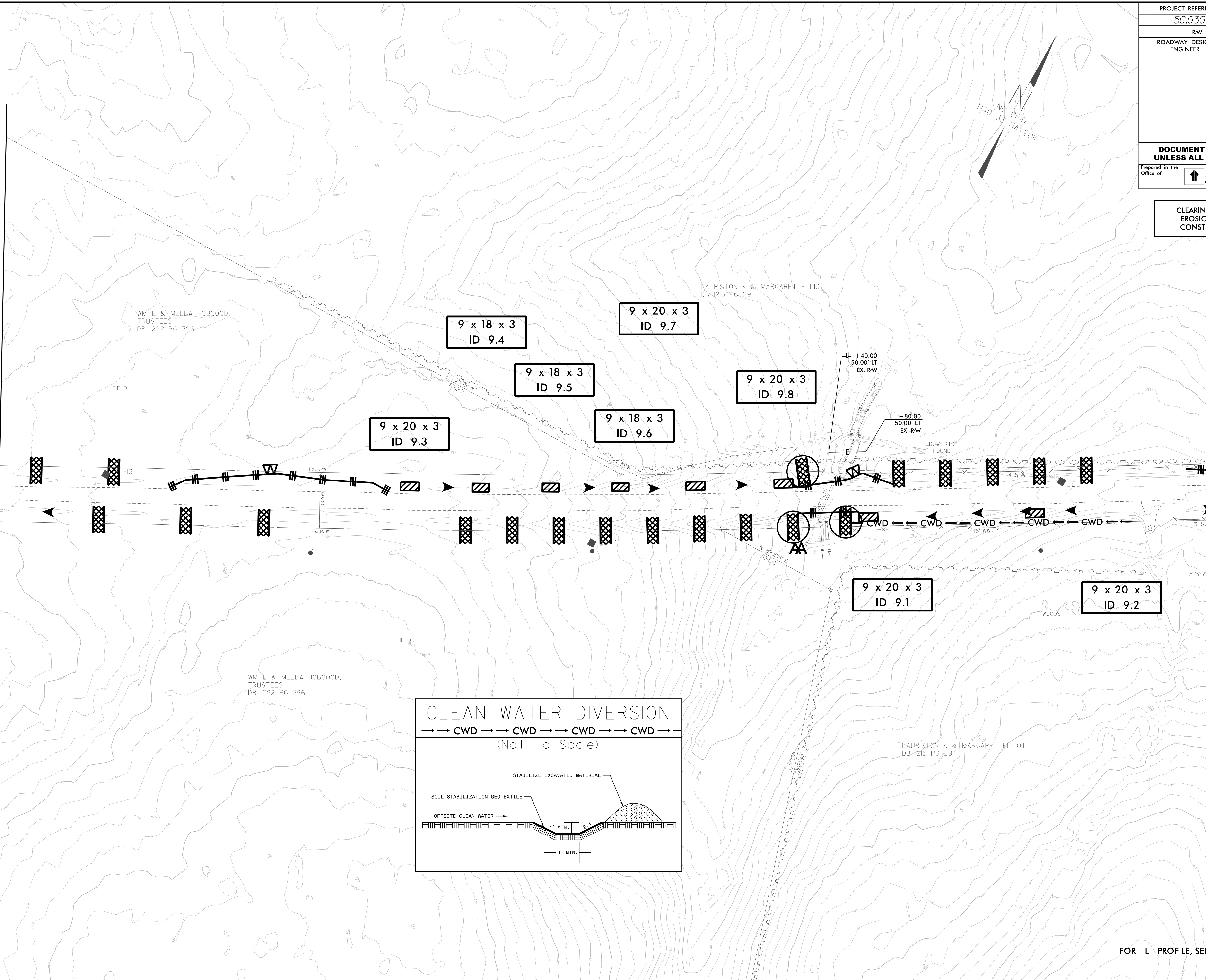
8/17/99
 REVISIONS
 07 JUL 2022 16:58
 N:\2020\2020-0300\000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_8_CG.dgn
 \$\$\$USE ONLY\$\$\$



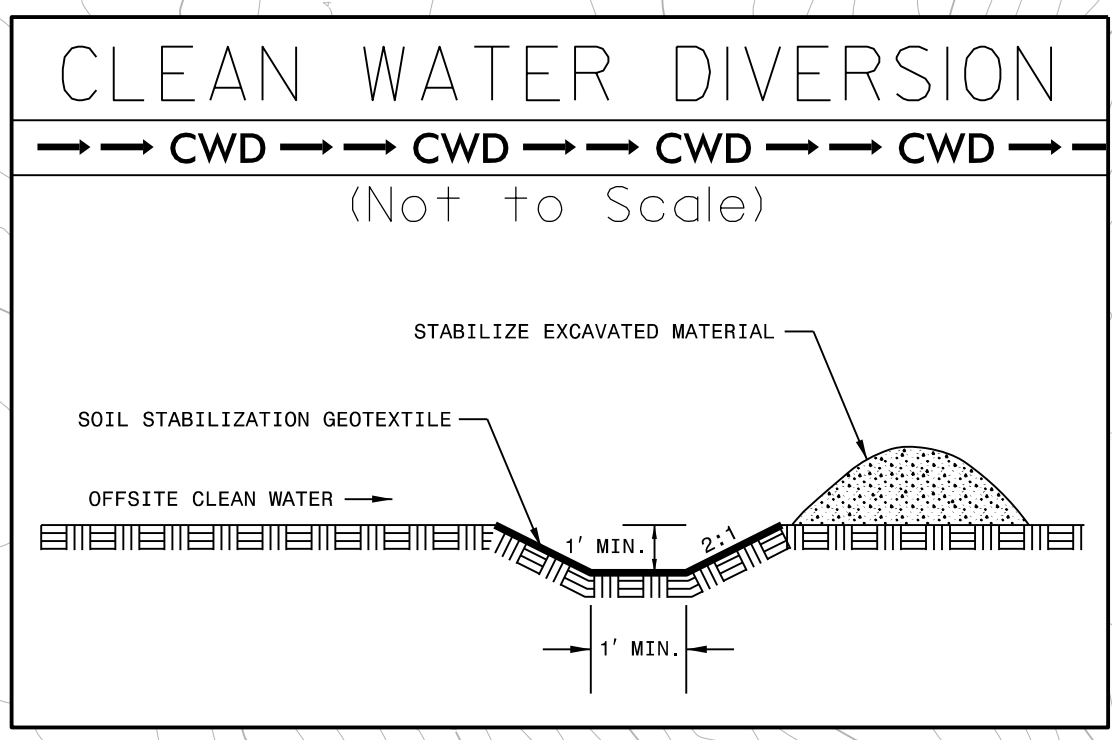
PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9	

8/17/99
 REVISIONS
 07 JUL 2002 16:58
 N:\2002\0300\000 NCDOT 2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_9_CG.dgn
 \$\$\$USE FOR PRINTING ONLY\$\$\$


MATCHLINE -L- STA 73+50
 (SEE SHEET 8)



MATCHLINE -L- STA 86+50
 (SEE SHEET 10)



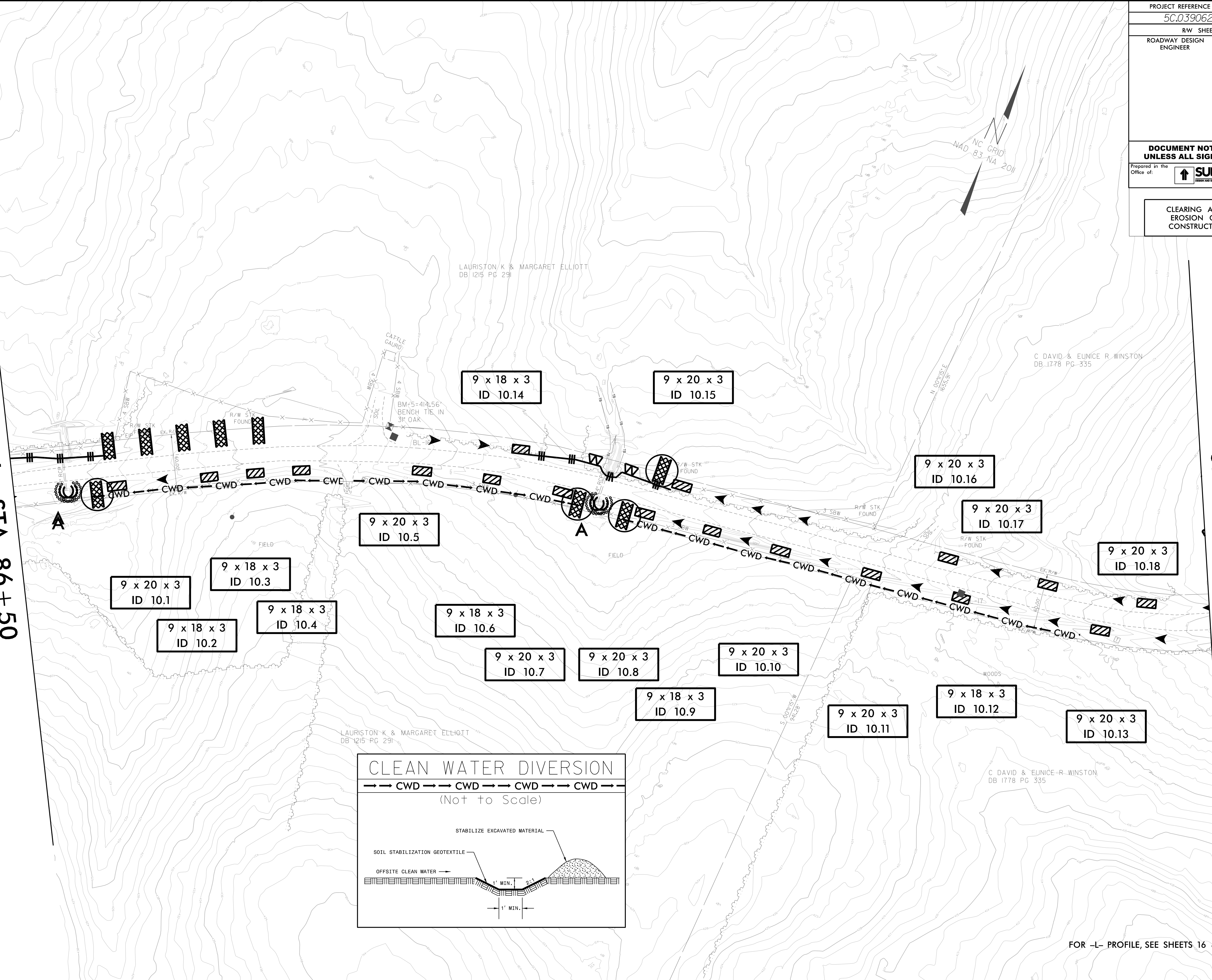
FOR -L- PROFILE, SEE SHEET 16

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10	


8/17/99
 REVISIONS
 07-JUL-2022 15:58
 N:\2020\2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_10_CG.dgn
 \$\$\$SUSI USE ONLY\$\$\$

MATCHLINE -L- STA 86+50
 (SEE SHEET 9)

MATCHLINE -L- STA 99+50
 (SEE SHEET 11)



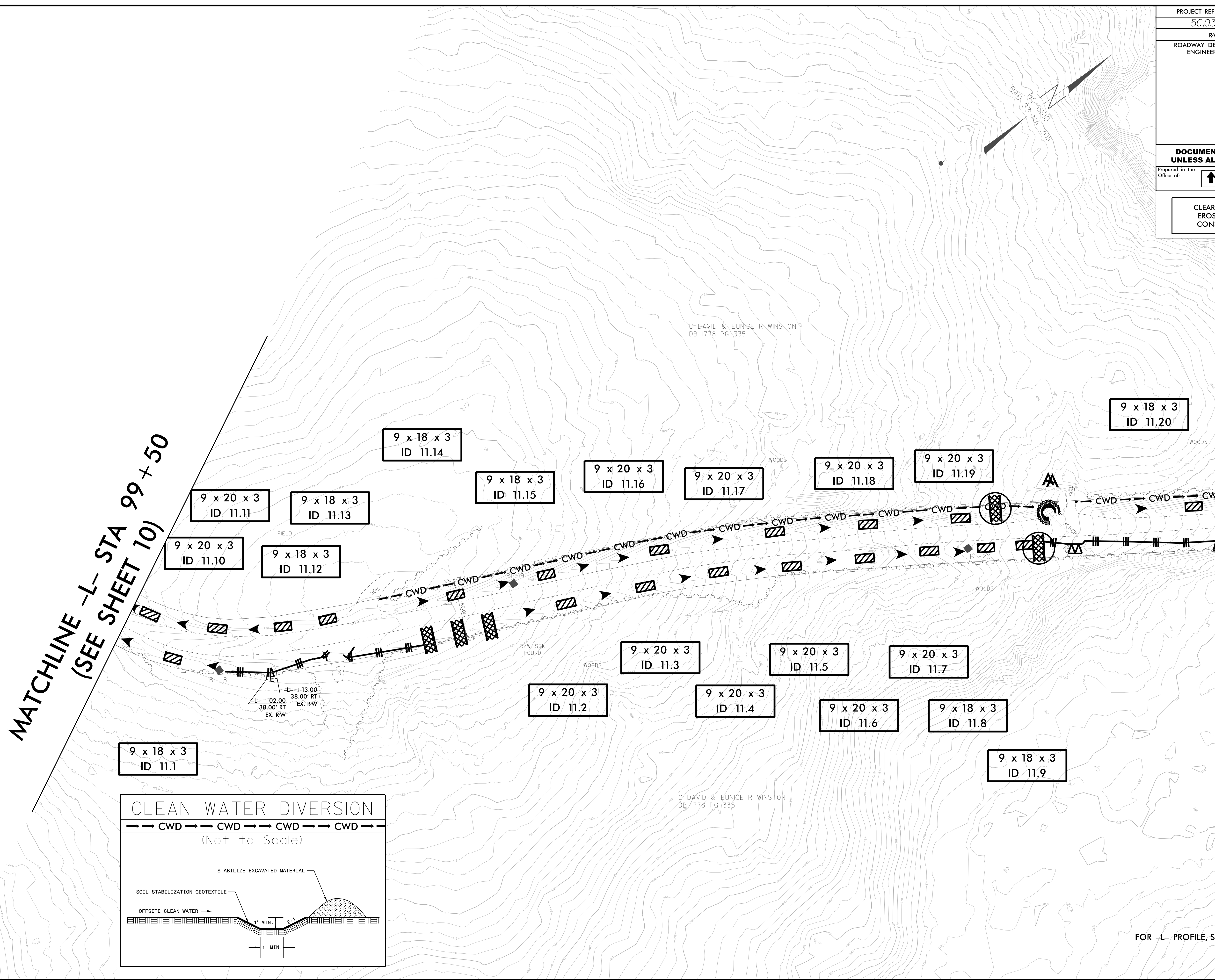
FOR -L- PROFILE, SEE SHEETS 16 & 17

PROJECT REFERENCE NO. 5C.039062		SHEET NO. EC-11	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		 NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)	
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 11			


8/17/99
 REVISIONS
 C:\Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_11.CG.dgn
 07 JUL 2022 16:58
 N:\2020\20-0300\015 NC DOT 2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_11.CG.dgn
 \$\$\$\$USE PRINTING\$\$\$\$

MATCHLINE -L- STA 99+50
 (SEE SHEET 10)

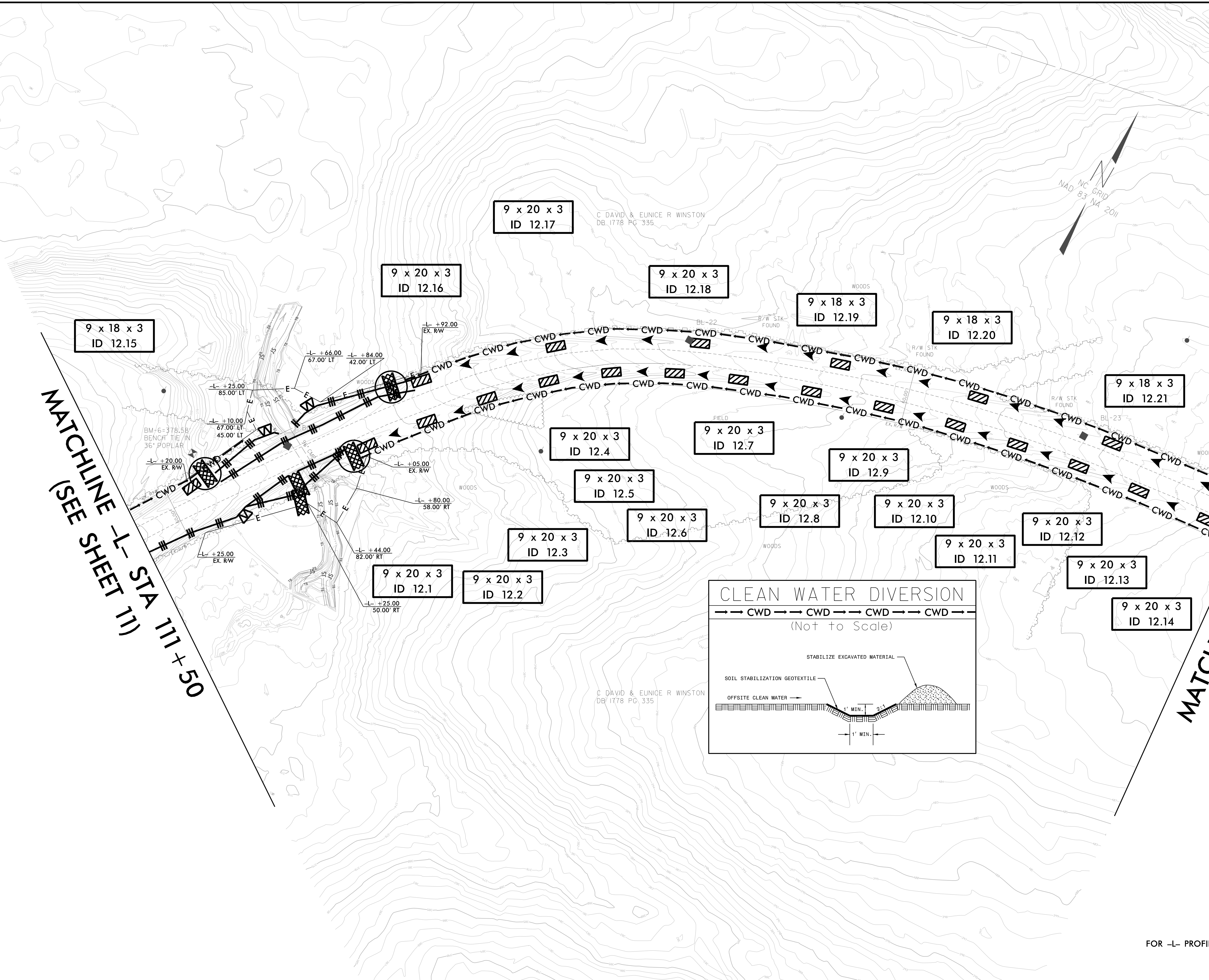
MATCHLINE -L- STA 111+50
 (SEE SHEET 12)



FOR -L- PROFILE, SEE SHEET 17

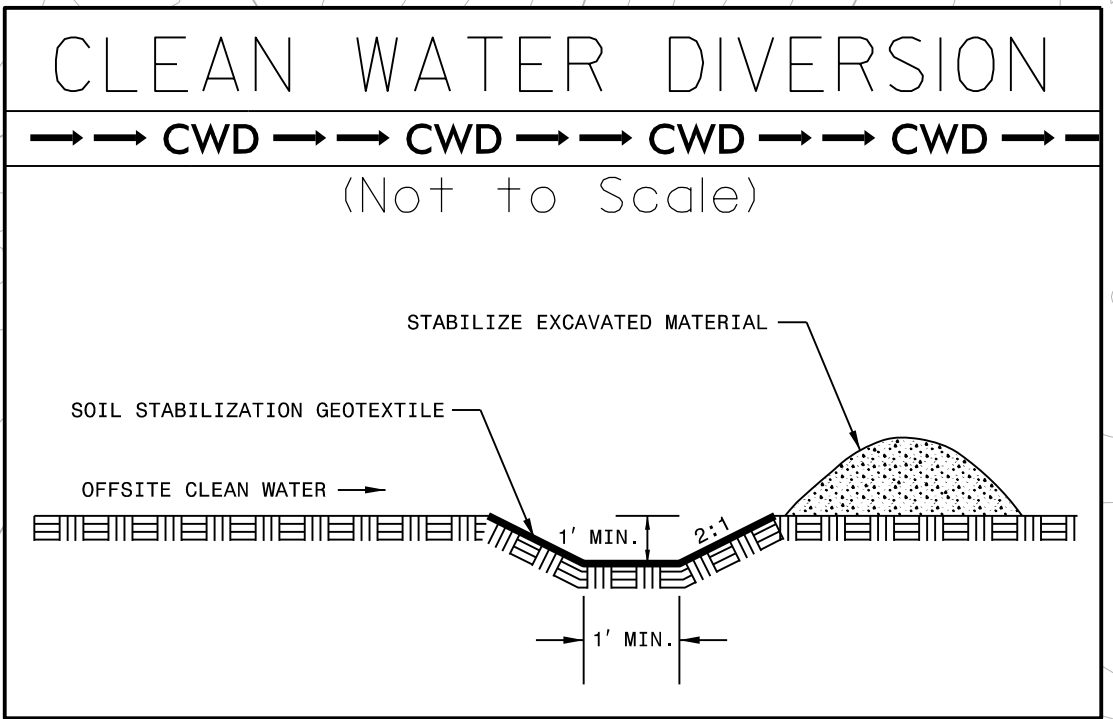
PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12	

8/17/99
 REVISIONS
 07 JUL 2002 15:58
 N:\2002\0300\000 NCDOT 2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_12.CG.dgn
 \$\$\$\$USE PRINT PLOTTER\$\$\$\$



MATCHLINE -L- STA 111+50
 (SEE SHEET 11)

MATCHLINE -L- STA 124+00
 (SEE SHEET 13)



FOR -L- PROFILE, SEE SHEETS 17 & 18

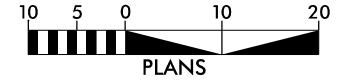
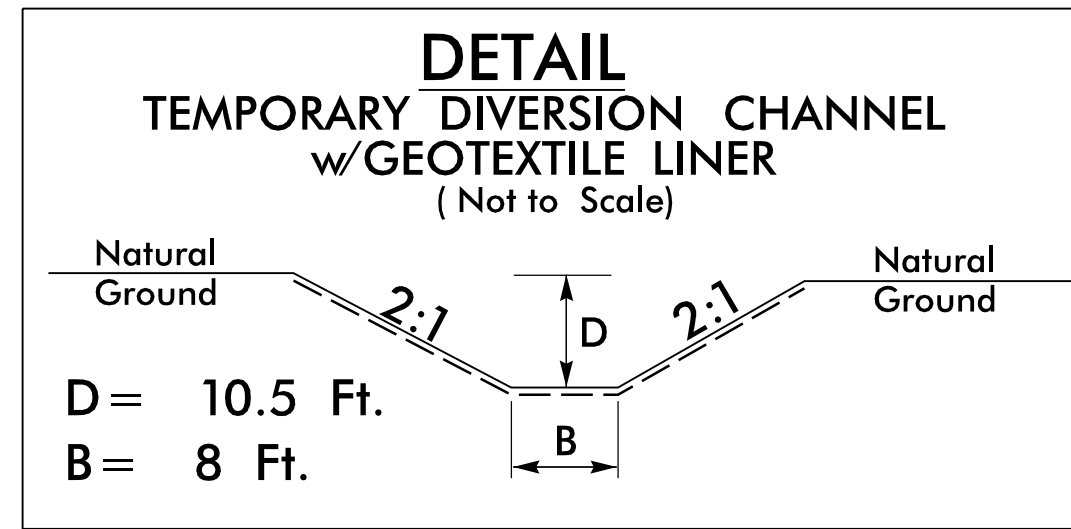
CONSTRUCTION SEQUENCE

15'4"x6'5" ABC

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-12A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTES (FOR ALL PHASES)

1. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW AS NECESSARY.
2. PUMPS AND HOSES SHALL BE SUFFICIENT SIZE TO DEWATER THE WORK AREA.
3. ALL GRADED AREAS SHALL BE STABILIZED WITHIN 24 HOURS.
4. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS AND HOSES.
5. THE CONTRACTOR SHALL NOT PUMP SEDIMENT-LADEN WATER DIRECTLY INTO STREAM. FOR DEWATERING OF CULVERT SITES, THE CONTRACTOR SHALL FILTER SEDIMENT-LADEN WATER THROUGH STILLING BASIN AND/OR SPECIAL STILLING BASIN.
6. THE CONTRACTOR MAY SUBMIT PLANS TO UTILIZE DIKE AND PUMP-AROUND OPERATION. PLANS MUST BE REVIEWED AND APPROVED BY NCDOT. AN ADEQUATE PUMP SIZE AND TYPE MUST BE SPECIFIED ON THE PLANS. PLANS MUST BE PREPARED BY AN NCDOT LEVEL III CERTIFIED DESIGNER.

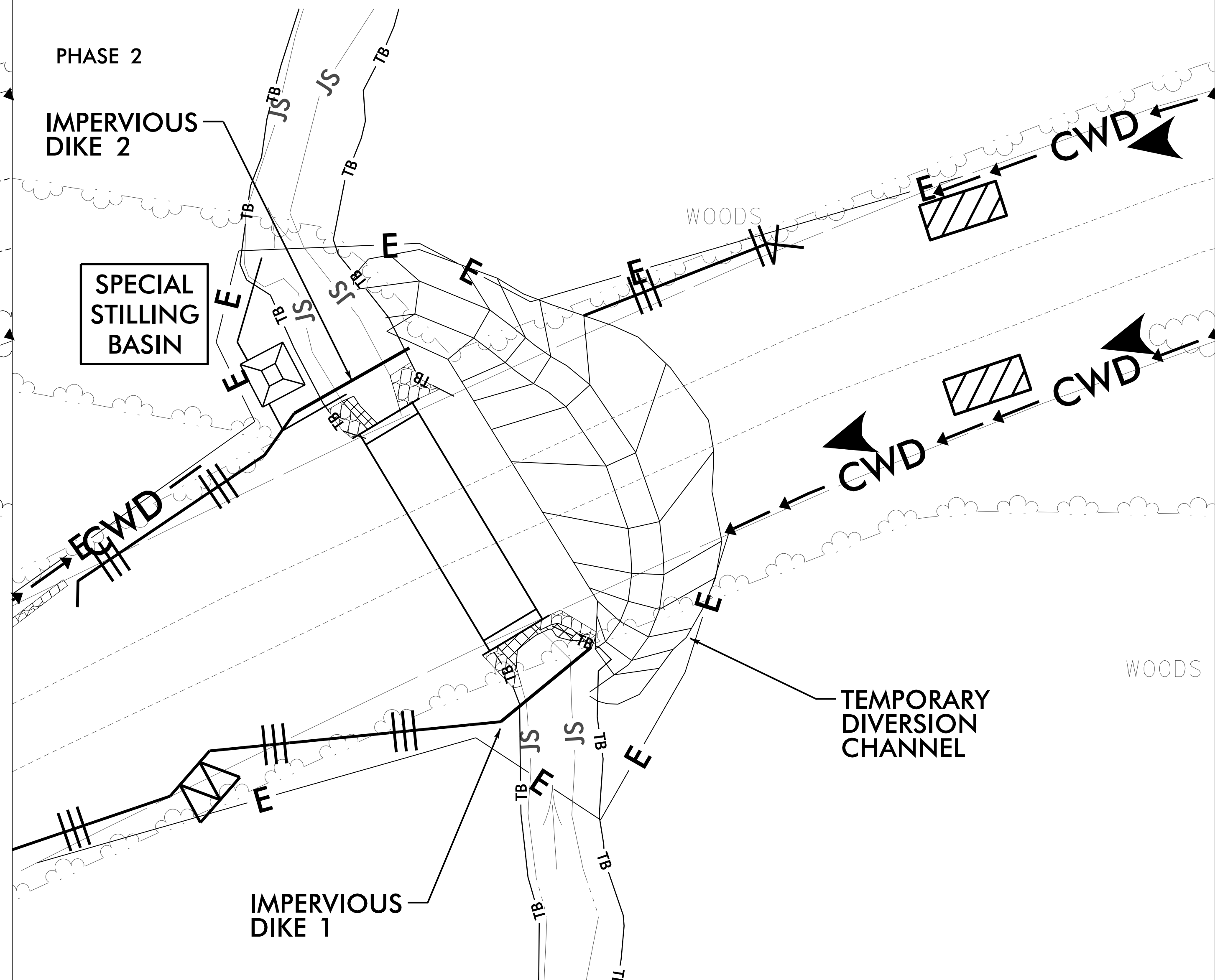
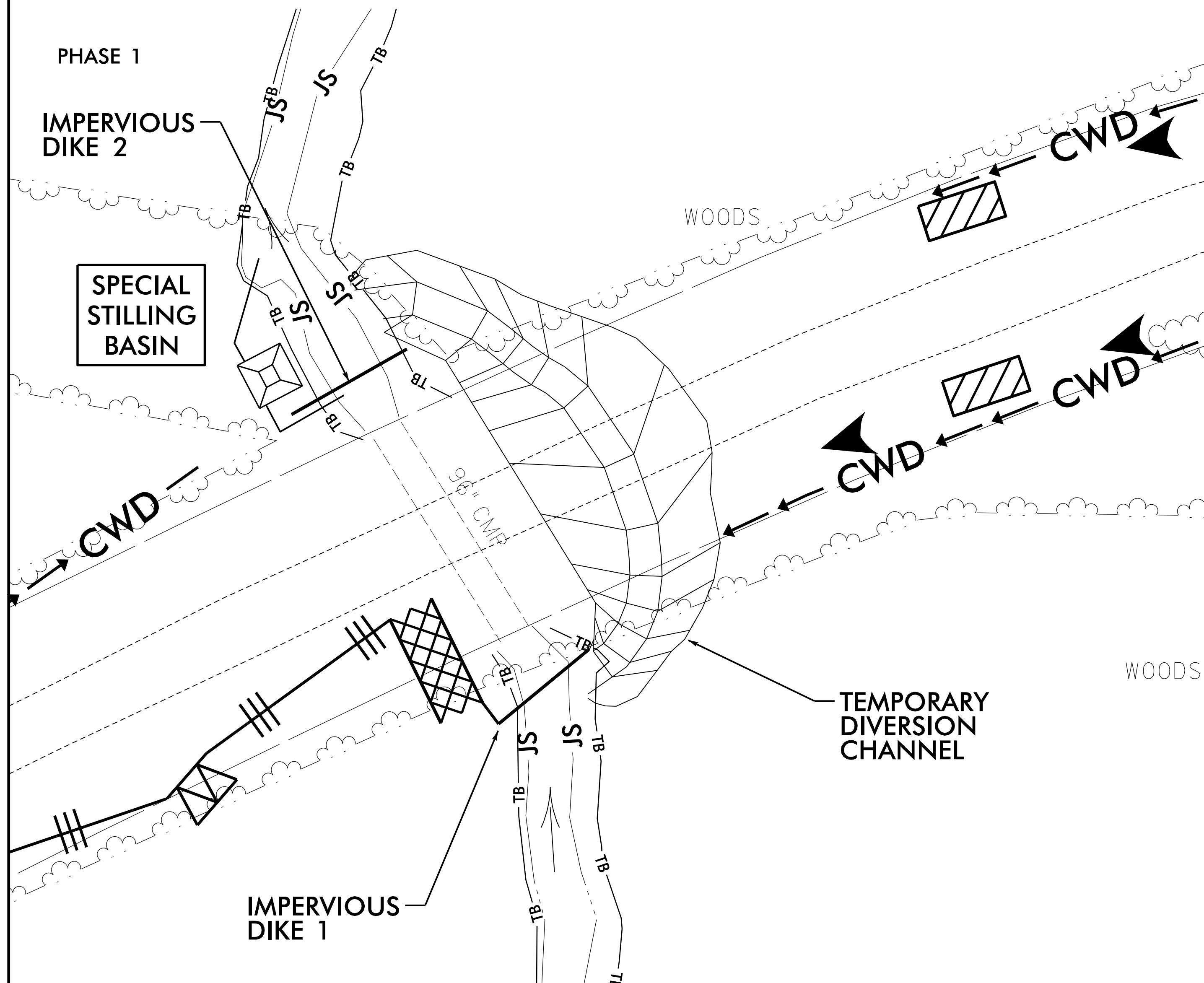



PHASE 1
CULVERT CONSTRUCTION

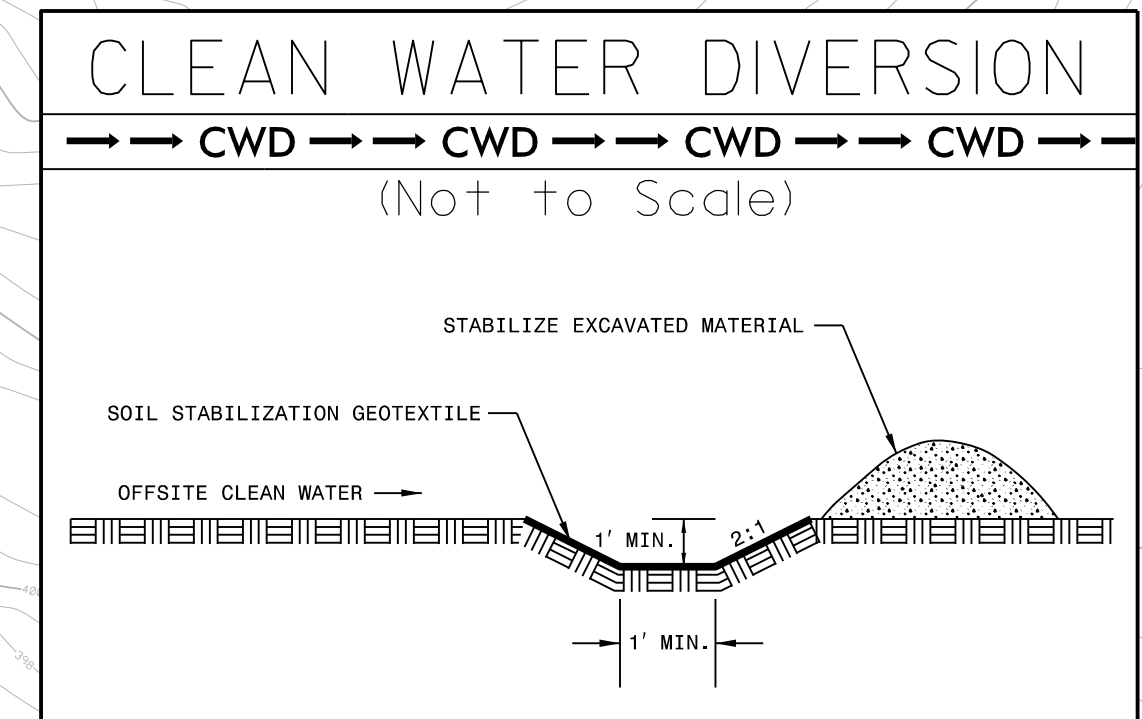
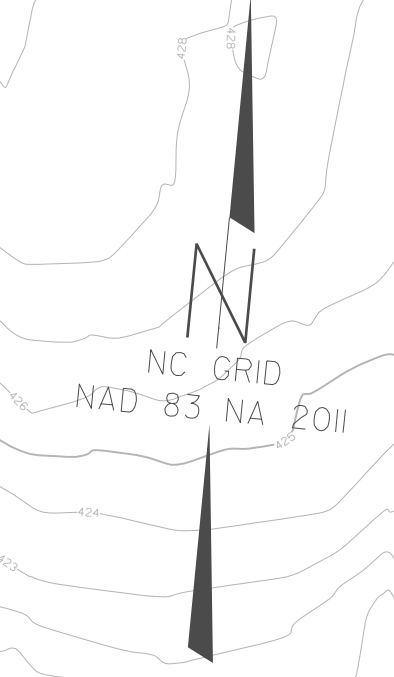
1. INSTALL PERIMETER SEDIMENT CONTROL DEVICES ALONG AND ADJACENT TO STREAM TO THE GREATEST EXTENT POSSIBLE.
2. INSTALL SPECIAL STILLING BASIN IN FIELD DETERMINED LOCATION.
3. EXCAVATE AND CONSTRUCT TEMPORARY DIVERSION CHANNEL WITH GEOTEXTILE LINER WHILE PROVIDING ADEQUATE CLEARANCE FROM THE WORK AREA.
4. INSTALL IMPERVIOUS DIKES 1 AND 2 TO DIVERT ALL CHANNEL FLOW THROUGH TEMPORARY DIVERSION CHANNEL.
5. DEWATER WORK AREA USING SPECIAL STILLING BASIN AS NEEDED.

PHASE 2
CULVERT CONSTRUCTION

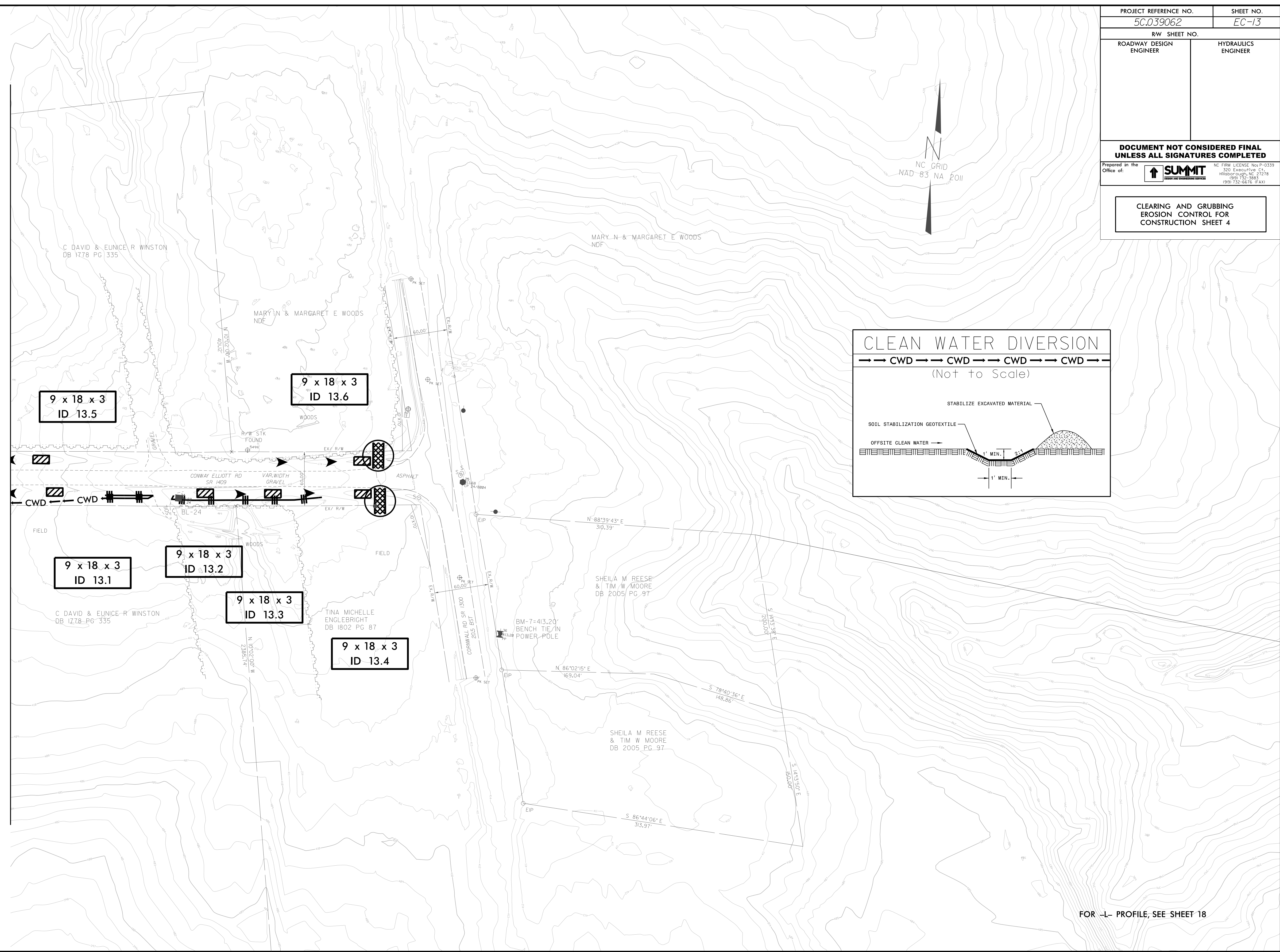
1. ADJUST PERIMETER SEDIMENT CONTROL DEVICES ALONG AND ADJACENT TO STREAM TO THE GREATEST EXTENT POSSIBLE.
2. REMOVE THE EXISTING 96" CMP.
3. EXCAVATE AND INSTALL 15'4"x6'5" ALUMINUM BOX CULVERT. INSTALL RIPRAP TO THE GREATEST EXTENT POSSIBLE. BACKFILL ALUMINUM BOX CULVERT.
4. REMOVE IMPERVIOUS DIKES 1 & 2 AND DIVERT ALL FLOW THROUGH 15'4"x6'5" ALUMINUM BOX CULVERT.
5. DEWATER AND REMOVE TEMPORARY DIVERSION CHANNEL UTILIZING SPECIAL STILLING BASINS AS NEEDED.



PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No: P-0339 320 Executive Ct Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)</small>
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4	




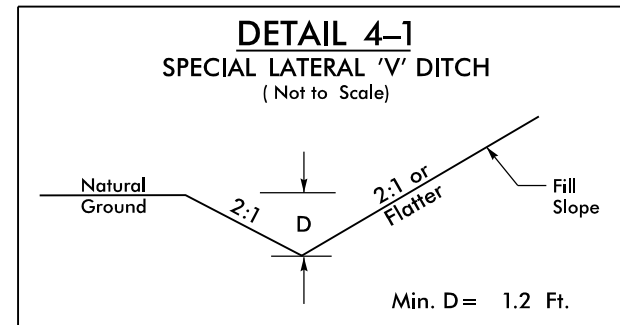
**MATCHLINE -L- STA 124+00
(SEE SHEET 12)**



FOR -L- PROFILE, SEE SHEET 18

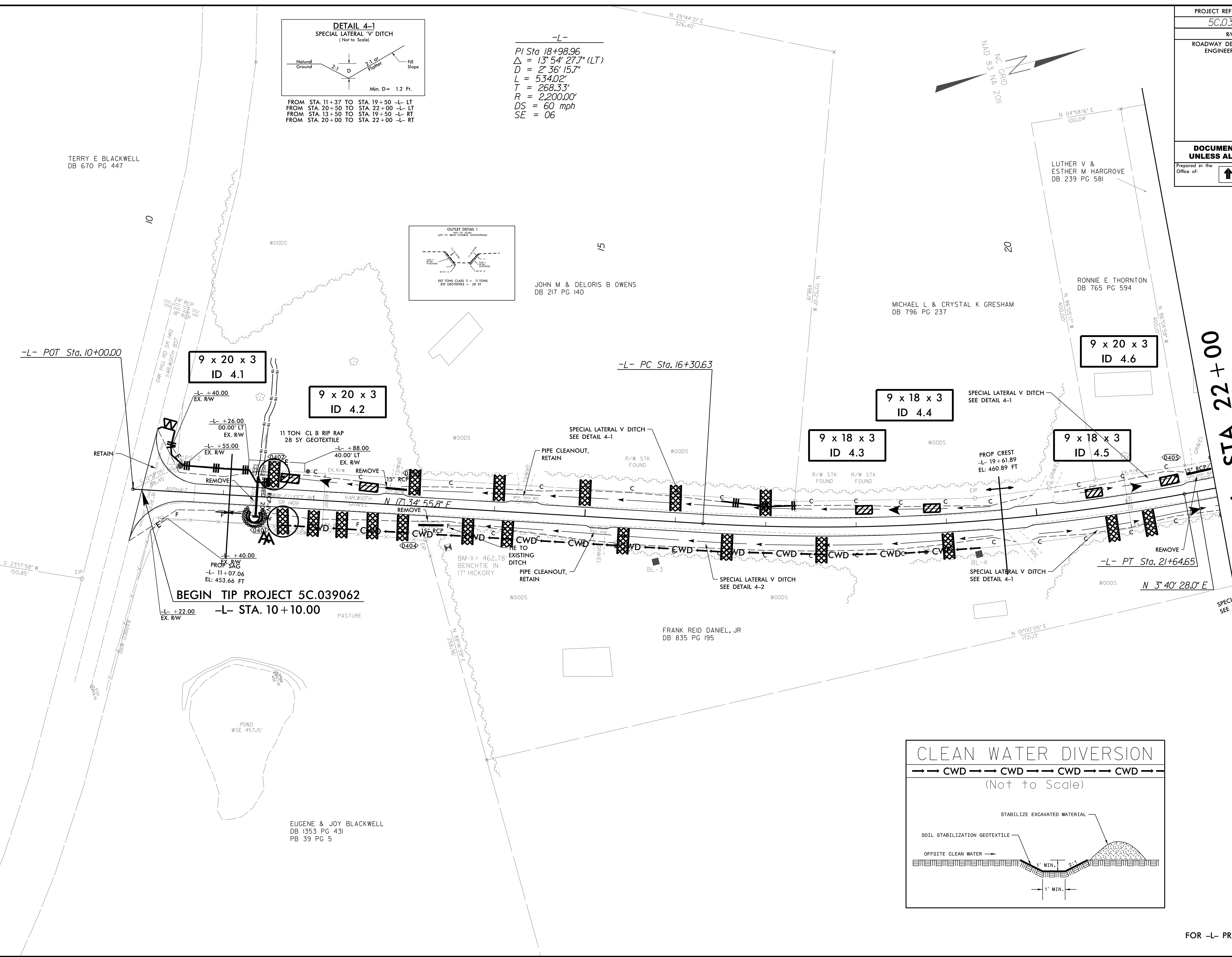
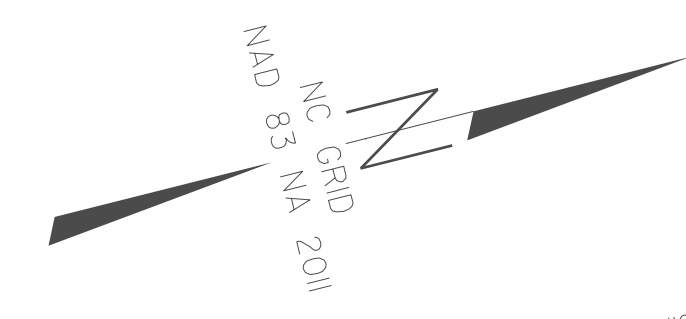
REVISIONS
 07 JUL 2022 15:58
 N:\2020\0300\000 NCDOT 2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC-13.CG.dgn
 8/17/99

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3668 (919) 732-6676 (FAX)</small>



FROM STA. 11+37 TO STA. 19+50 -L- LT
 FROM STA. 20+50 TO STA. 22+00 -L- LT
 FROM STA. 13+50 TO STA. 19+50 -L- RT
 FROM STA. 20+00 TO STA. 22+00 -L- RT

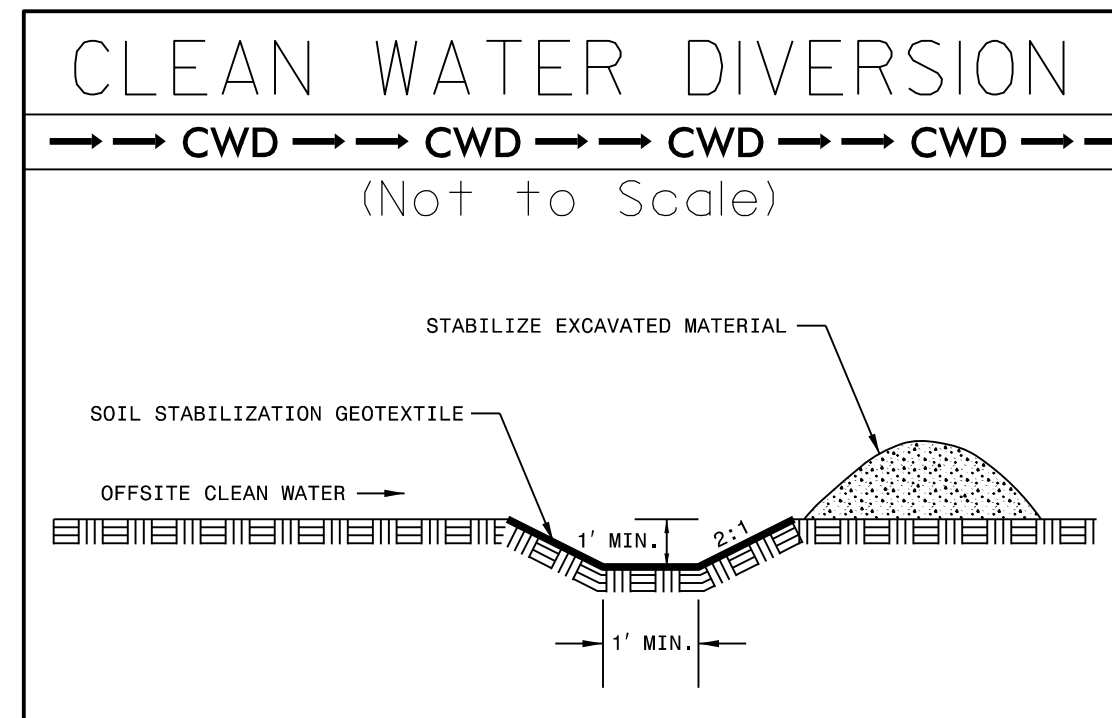
-L-
 PI Sta 18+98.96
 $\Delta = 13^{\circ} 54' 27.7''$ (LT)
 $D = 2^{\circ} 36' 15.7''$
 $L = 534.02'$
 $T = 268.33'$
 $R = 2,200.00'$
 $DS = 60$ mph
 $SE = 06$




REVISIONS

8/17/99
 07 JUL 2002 15:58
 N:\2002\0300\000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_14_Final.dgn
 \$\$\$\$USE PRINT PLOTTER\$\$\$\$

**MATCHLINE -L- STA 22+00
(SEE SHEET 5)**

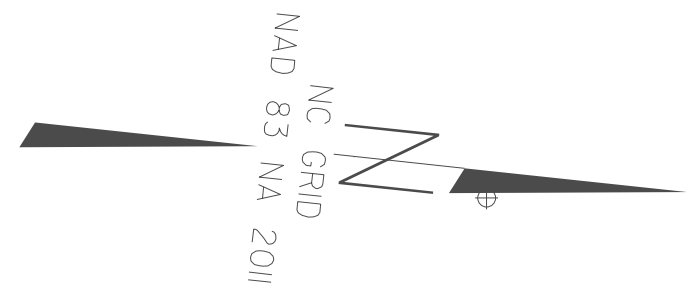


FOR -L- PROFILE, SEE SHEET 14

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)</small>

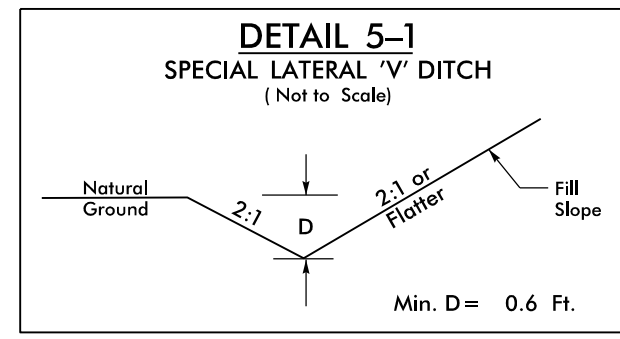
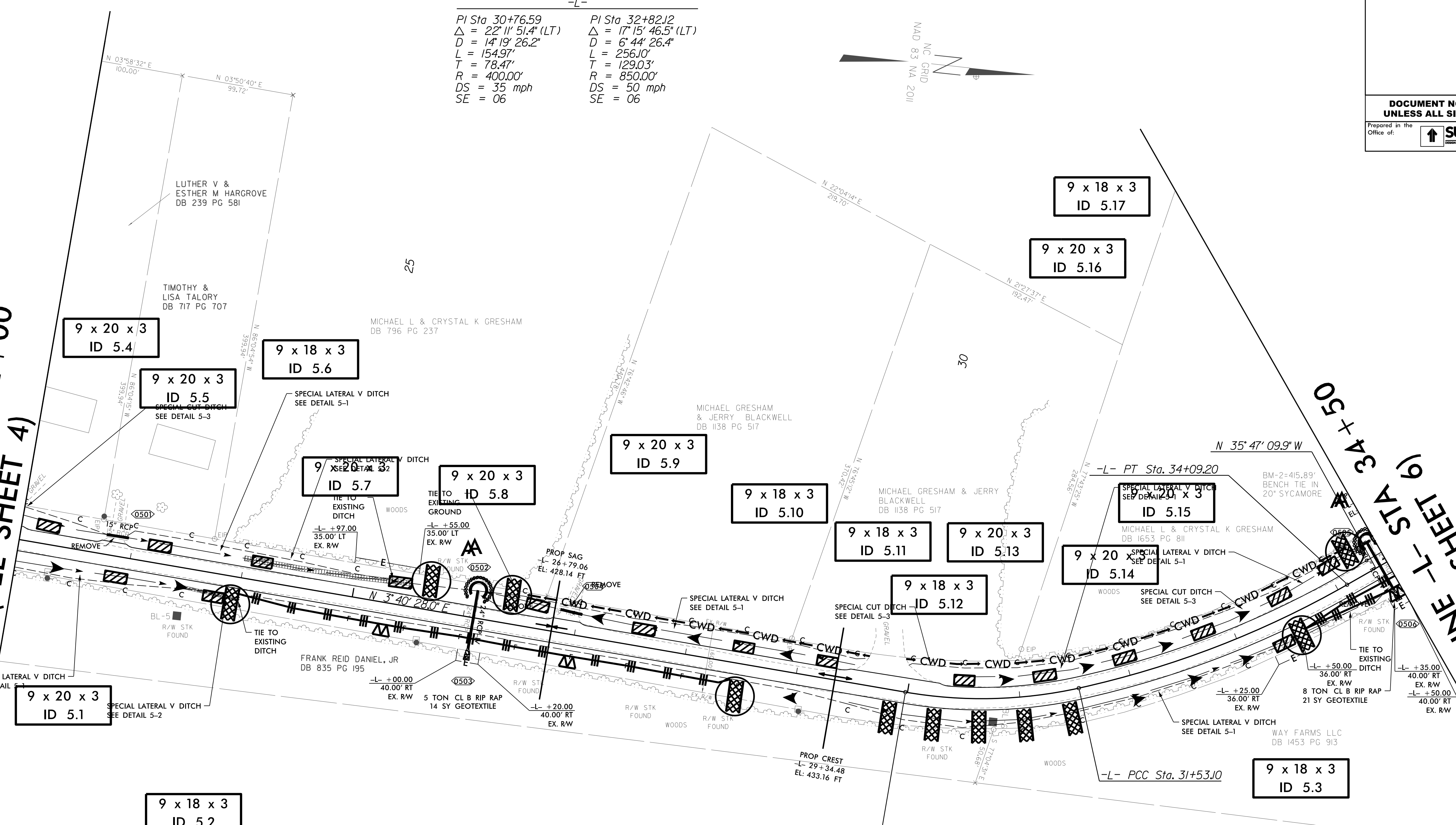
-L-

PI Sta 30+76.59	PI Sta 32+82.12
$\Delta = 22^\circ 11' 51.4" (LT)$	$\Delta = 17^\circ 15' 46.5" (LT)$
$D = 14' 19" 26.2"$	$D = 6' 44" 26.4"$
$L = 154.97'$	$L = 256.10'$
$T = 78.47'$	$T = 129.03'$
$R = 400.00'$	$R = 850.00'$
$DS = 35 \text{ mph}$	$DS = 50 \text{ mph}$
$SE = 06$	$SE = 06$

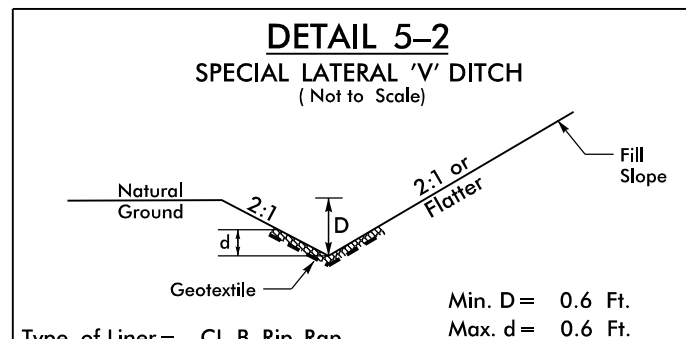


MATCHLINE -L- STA 22+00
(SEE SHEET 4)

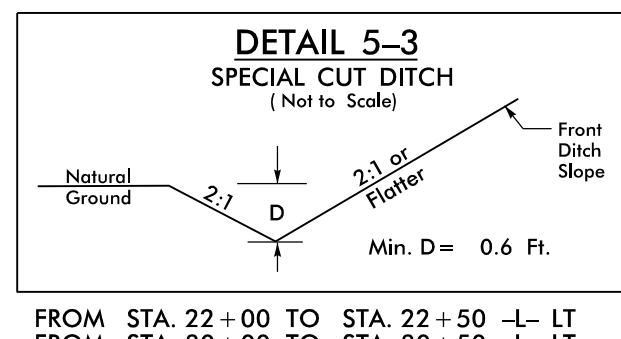
MATCHLINE -L- STA 34+50
(SEE SHEET 14)



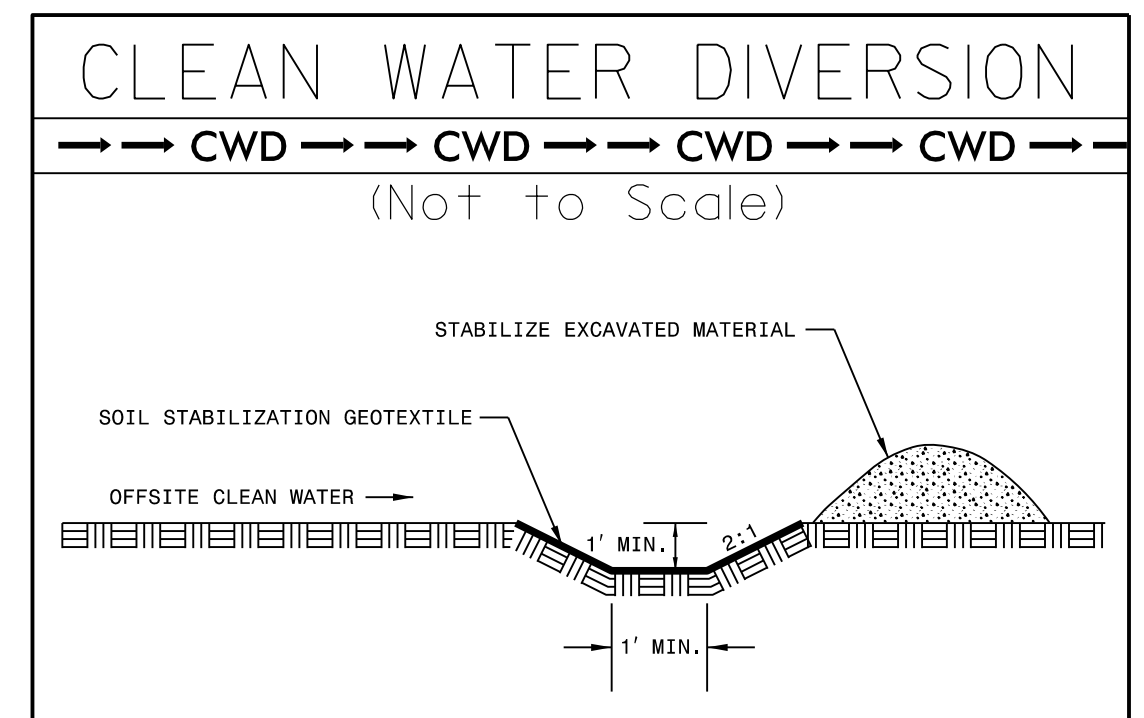
FROM STA. 22+50 TO STA. 24+00 -L- LT
 FROM STA. 26+09 TO STA. 29+50 -L- LT
 FROM STA. 30+50 TO STA. 32+00 -L- LT
 FROM STA. 34+00 TO STA. 34+43 -L- LT
 FROM STA. 22+00 TO STA. 23+50 -L- RT
 FROM STA. 29+50 TO STA. 34+00 -L- RT



Type of Liner = CL B Rip-Rap
 FROM STA. 24+00 TO STA. 25+50 -L- LT
 FROM STA. 23+50 TO STA. 24+00 -L- RT

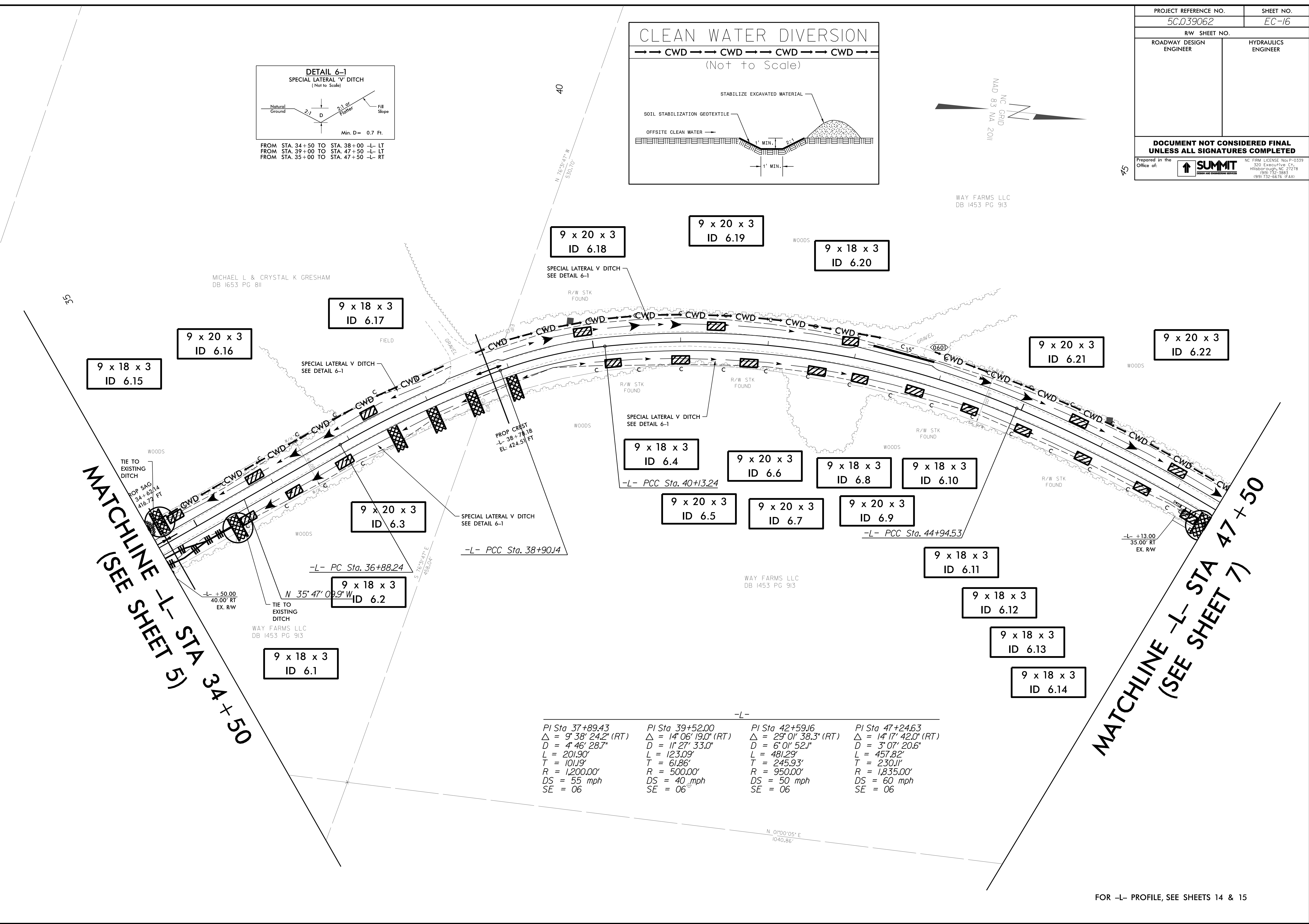
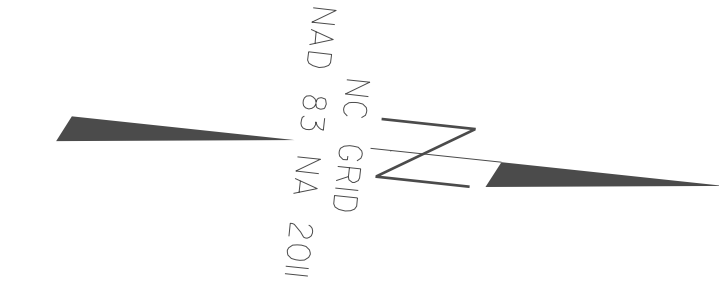
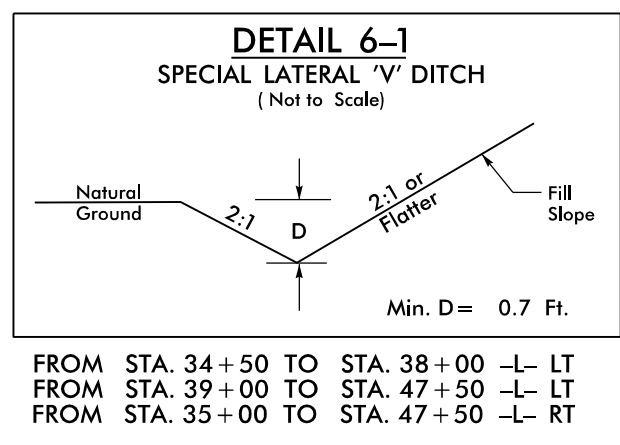
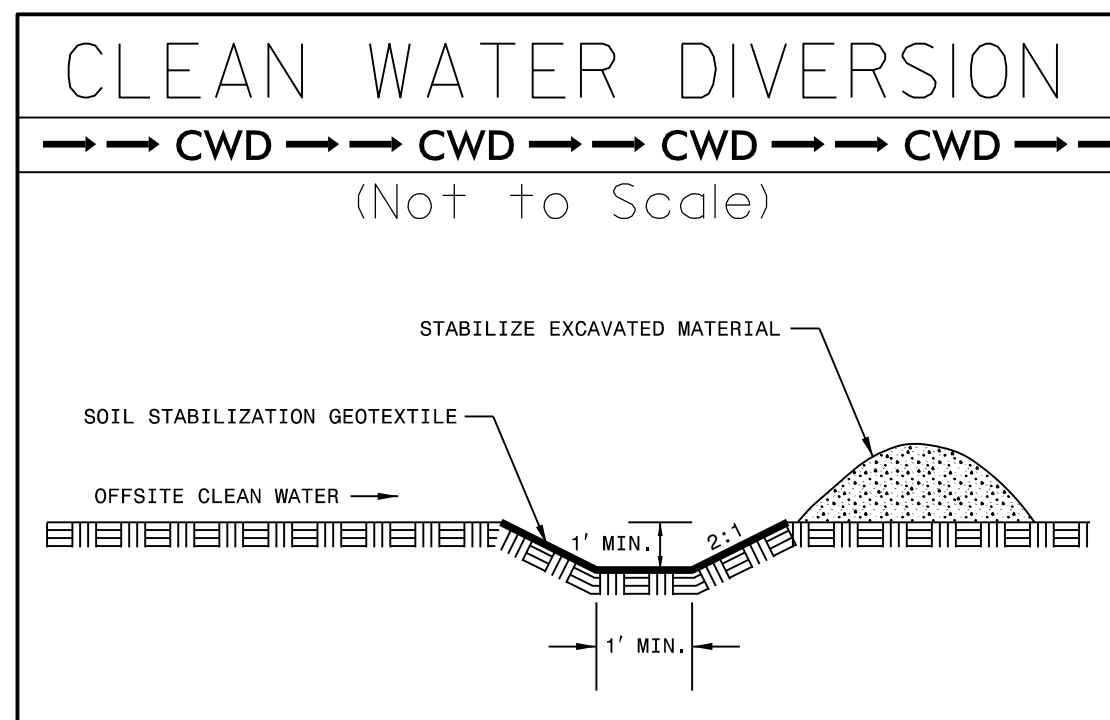


FROM STA. 22+00 TO STA. 22+50 -L- LT
 FROM STA. 30+00 TO STA. 30+50 -L- LT
 FROM STA. 32+50 TO STA. 34+00 -L- LT



FOR -L- PROFILE, SEE SHEET 14

REVISIONS
 8/17/99
 07 JUL 2022 15:58
 N:\2020\0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_15_Final.dgn
 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_15_Final.dgn




MATCHLINE -L- STA 34+50
(SEE SHEET 5)

MATCHLINE -L- STA 47+50
(SEE SHEET 7)

PI Sta	Δ	D	L	T	R	DS	SE
37+89.43	9° 38' 24.2" (RT)	4' 46' 28.7"	201.90'	101.19'	1,200.00'	55 mph	06
39+52.00	14° 06' 19.0" (RT)	11' 27' 33.0"	123.09'	61.86'	500.00'	40 mph	06
42+59.16	29° 01' 38.3" (RT)	6' 01' 52.1"	481.29'	245.93'	950.00'	50 mph	06
47+24.63	14° 17' 42.0" (RT)	3' 07' 20.6"	457.82'	230.11'	1,835.00'	60 mph	06

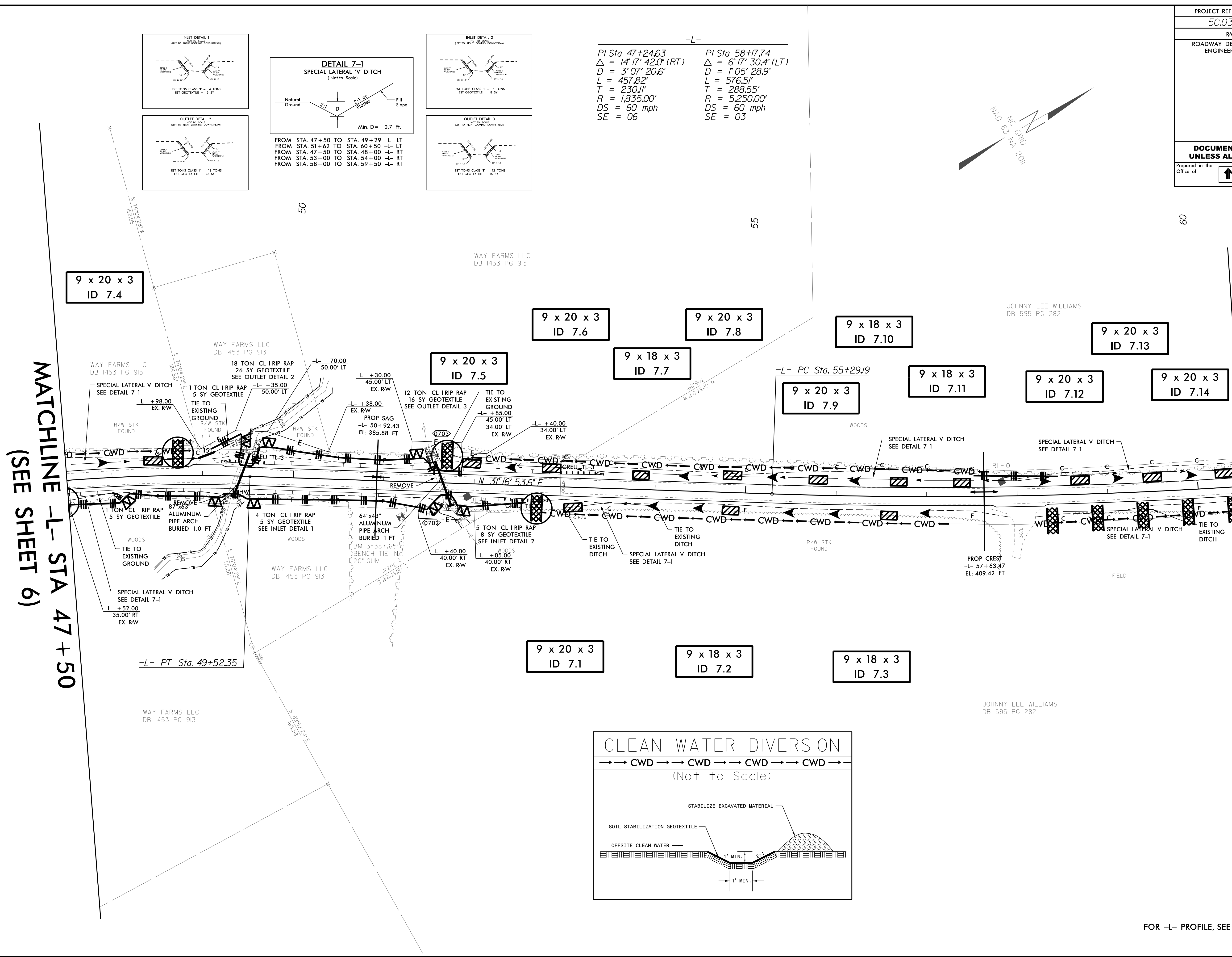
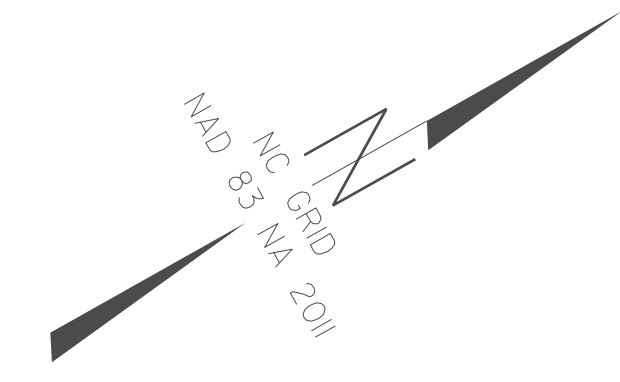
REVISIONS

8/17/99
 N:\2020\2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_16_Final.dgn
 07 JUL 2022 16:58
 N:\2020\2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_16_Final.dgn

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: 	NC FIRM LICENSE No: P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3663 (919) 732-6676 (FAX)

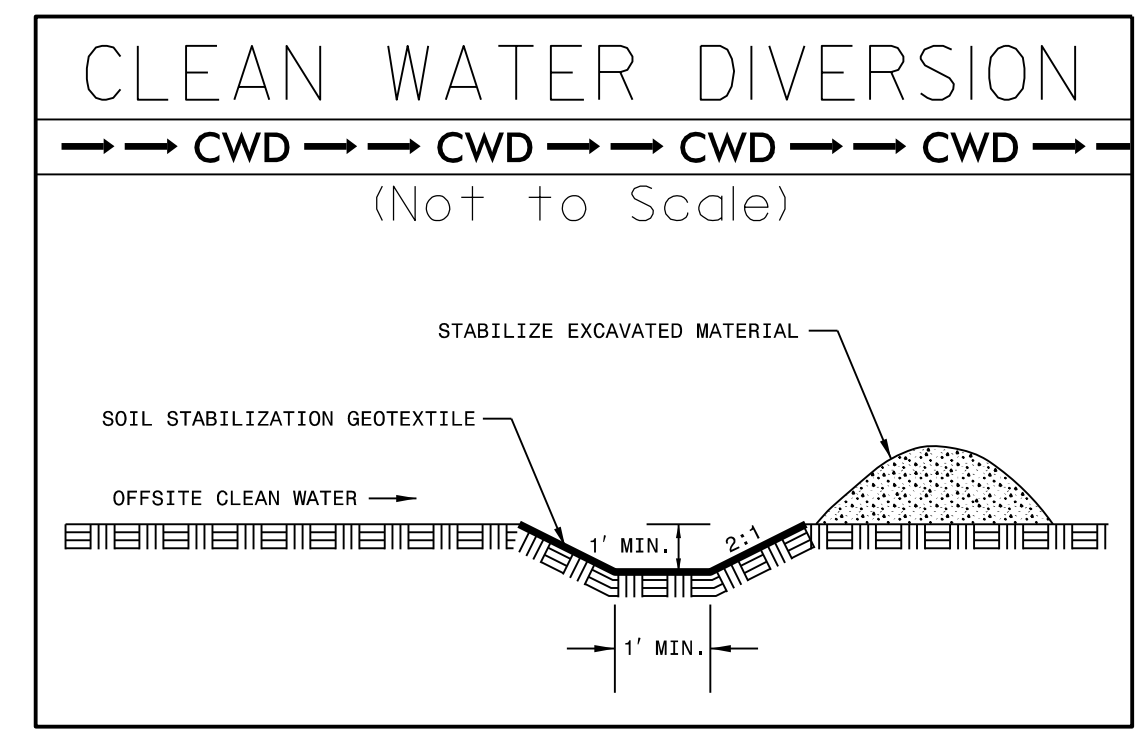
-L-

PI Sta 47+24.63 Δ = 14' 17" 42.0" (RT) D = 3' 07" 20.6" L = 457.82' T = 230.11' R = 1,835.00' DS = 60 mph SE = 06	PI Sta 58+17.74 Δ = 6' 17" 30.4" (LT) D = 1' 05" 28.9" L = 576.51' T = 288.55' R = 5,250.00' DS = 60 mph SE = 03
--	---




MATCHLINE -L- STA 47+50
(SEE SHEET 6)

MATCHLINE -L- STA 60+50
(SEE SHEET 8)



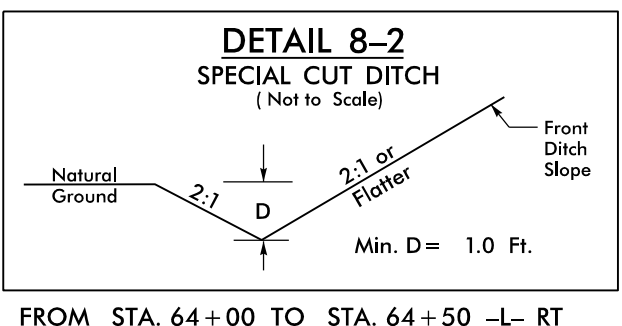
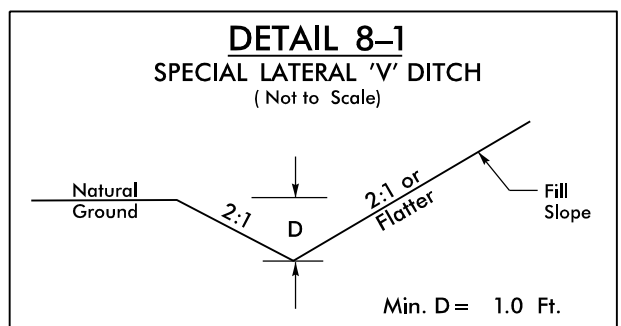
FOR -L- PROFILE, SEE SHEET 15

REVISIONS
 07 JUL 2022 15:58
 N:\2020\0300\000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway-EC-17-Final.dgn
 8/17/99

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hickory, NC 27278 (811) 332-3663 (919) 732-6676 (FAX)</small>

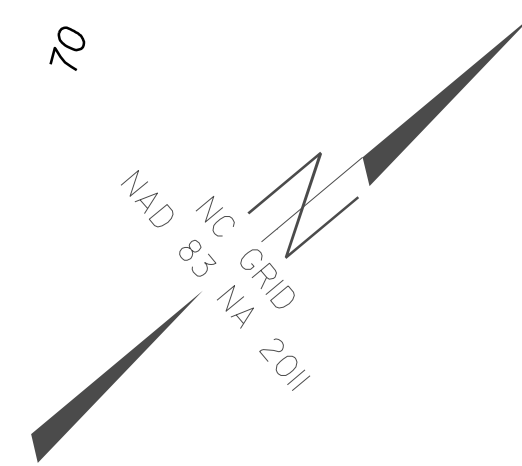
-L-

PI Sta 58+17.74 Δ = 6° 17' 30.4" (LT) D = 1° 05' 28.9" L = 576.5' T = 288.55' R = 5,250.00' DS = 60 mph SE = 03	PI Sta 68+44.33 Δ = 36° 32' 35.8" (RT) D = 7° 09' 43.1" L = 510.24' T = 264.14' R = 800.00' DS = 45 mph SE = 06
--	--



FROM STA. 60+50 TO STA. 63+18 -L- LT
FROM STA. 67+00 TO STA. 73+50 -L- LT
FROM STA. 64+50 TO STA. 65+50 -L- RT
FROM STA. 67+00 TO STA. 73+00 -L- RT

FROM STA. 64+00 TO STA. 64+50 -L- RT
FROM STA. 65+50 TO STA. 67+00 -L- RT
FROM STA. 73+00 TO STA. 73+50 -L- RT



WM E & MELBA HOBGOOD,
TRUSTEES
DB 1292 PG 396

MATCHLINE -L- STA 60+50
(SEE SHEET 7)

MATCHLINE -L- STA 73+50
(SEE SHEET 9)

9 x 20 x 3
ID 8.13

9 x 20 x 3
ID 8.12

9 x 20 x 3
ID 8.14

9 x 20 x 3
ID 8.15

9 x 18 x 3
ID 8.16

9 x 18 x 3
ID 8.17

9 x 20 x 3
ID 8.18

9 x 20 x 3
ID 8.3

9 x 20 x 3
ID 8.5

9 x 20 x 3
ID 8.7

9 x 20 x 3
ID 8.8

9 x 20 x 3
ID 8.9

9 x 20 x 3
ID 8.10

9 x 20 x 3
ID 8.11

9 x 18 x 3
ID 8.1

9 x 20 x 3
ID 8.2

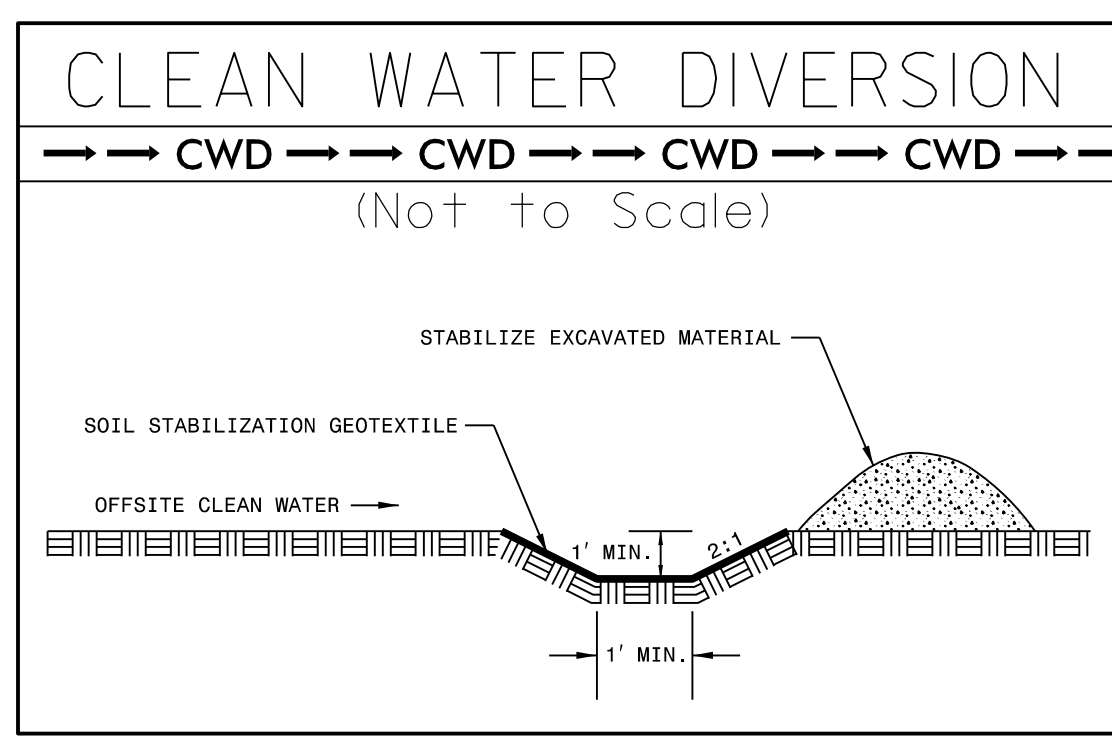
9 x 20 x 3
ID 8.4

9 x 20 x 3
ID 8.6

JOHNNY LEE WILLIAMS
DB 595 PG 282


WM E & MELBA HOBGOOD,
TRUSTEES
DB 1292 PG 396

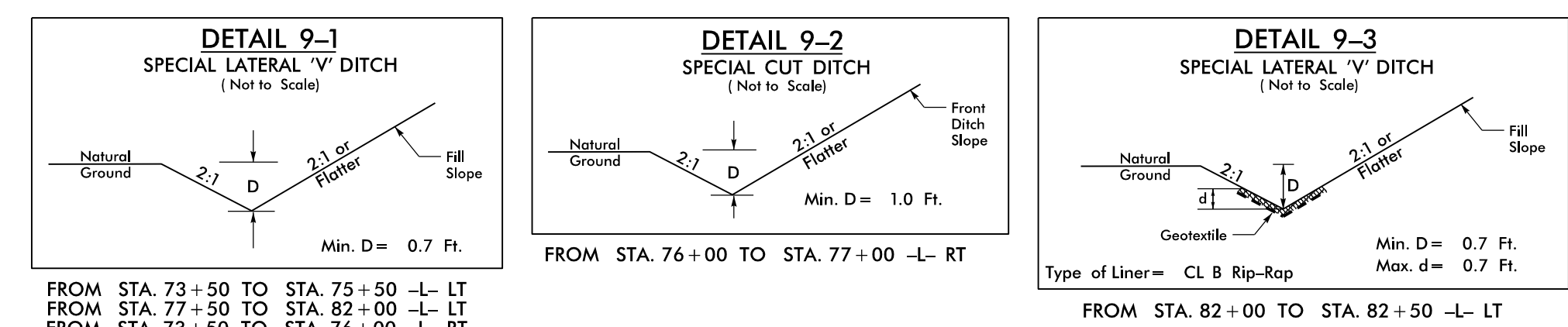
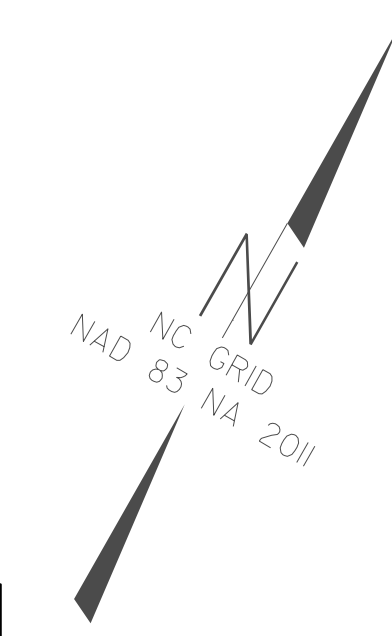
JOHNNY LEE WILLIAMS
DB 595 PG 282



FOR -L- PROFILE, SEE SHEETS 15 & 16

REVISIONS
 07 JUL 2022 15:58
 N:\2020\0300\000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC-18_Final.dgn
 8/17/99

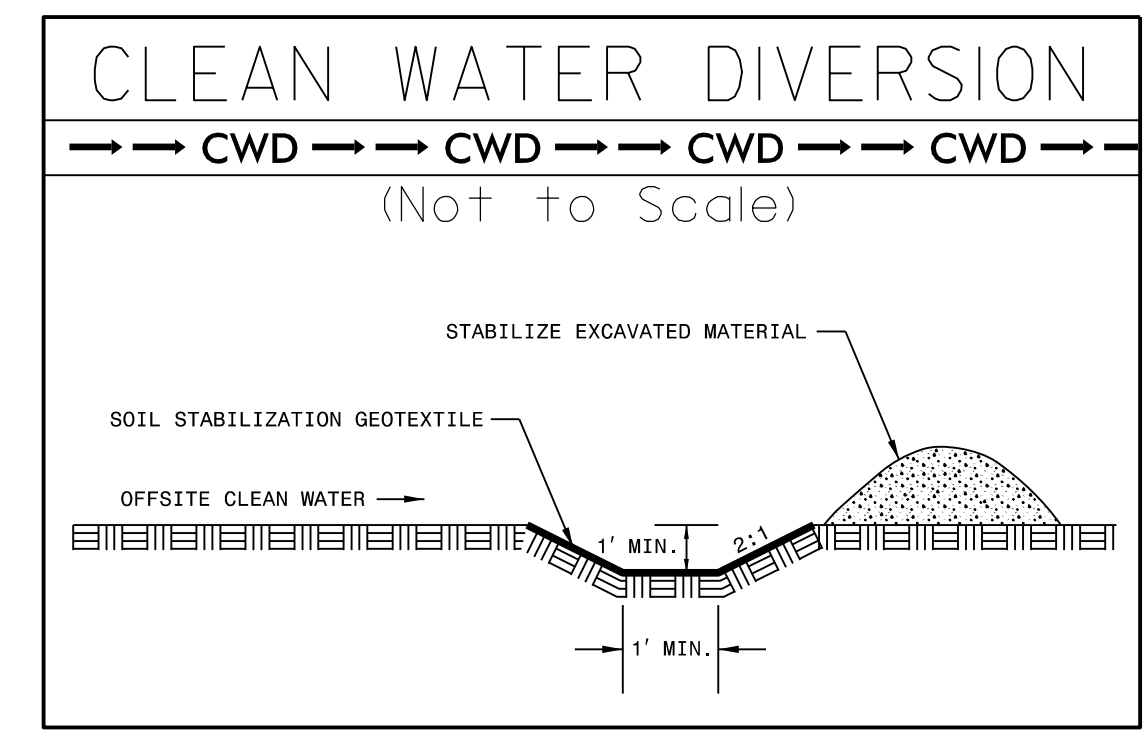
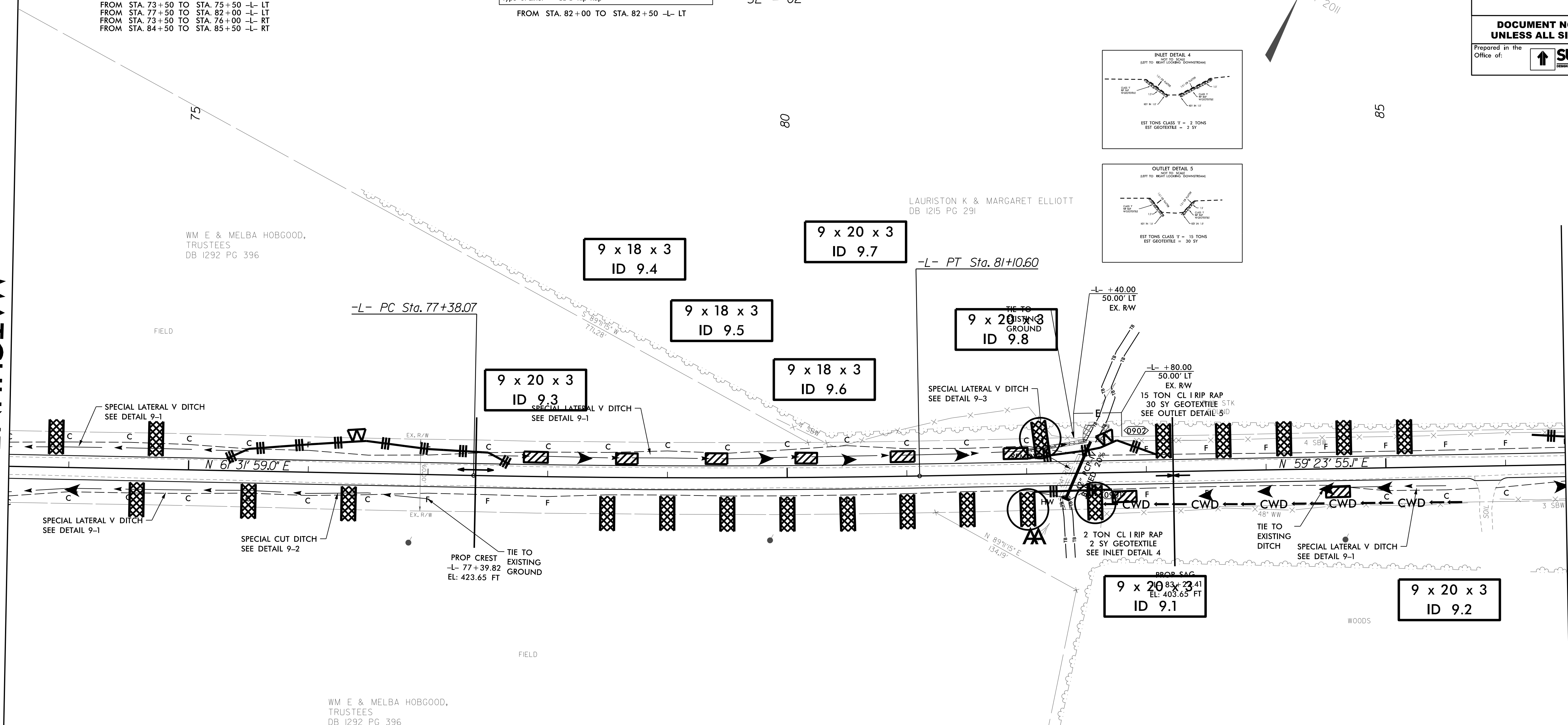
PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)</small>



-L-
 PI Sta 79+24.36
 $\Delta = 2' 08'' 039'' (LT)$
 $D = 0' 34'' 226''$
 $L = 372.53'$
 $T = 186.28'$
 $R = 10,000.00'$
 $DS = 60 \text{ mph}$
 $SE = 02$

MATCHLINE -L- STA 73 + 50
(SEE SHEET 8)

MATCHLINE -L- STA 86 + 50
(SEE SHEET 10)



REVISIONS

8/17/99
 07 JUL 2002 15:58
 N:\2002-0300\000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Ste 6 - Conway Elliott Rd\Design\Environmental\Design\Conway-EC-19_Final.dgn
 \$\$\$\$USE PRINT PLOTTER\$\$\$\$

8/17/99

REVISIONS
07-JUL-2022 16:58 N:\2020\Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_20_F.mxd.dgn
07-2020-0300-015-000 NCDOT 2020 Statewide CEI Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_20_F.mxd.dgn

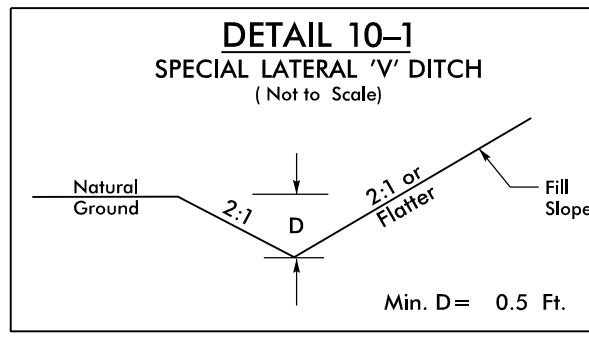
PROJECT REFERENCE NO.
5C.039062

SHEET NO.
EC-20

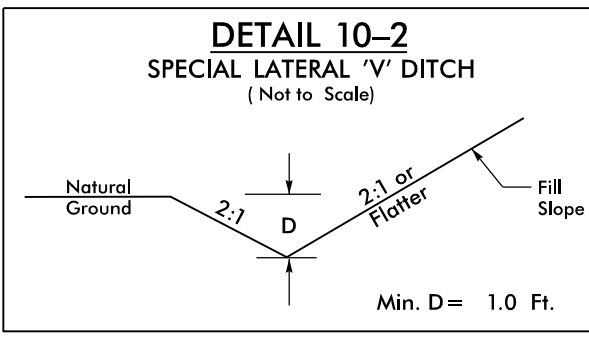
RW SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

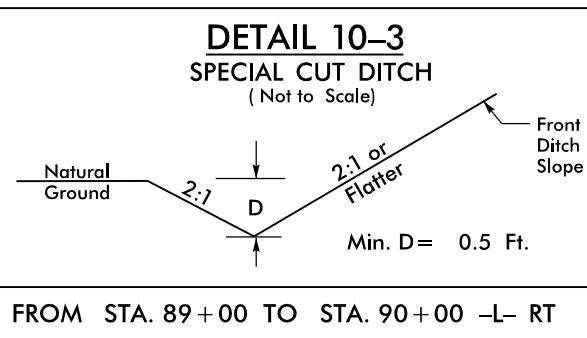
Prepared in the Office of:
SUMMIT
CONCRETE AND ENGINEERING SERVICES
NC FIRM LICENSE No. P-0339
320 Executive Ct.
Hillsborough, NC 27278
(919) 332-3663
(919) 732-6676 (FAX)



FROM STA. 87+50 TO STA. 90+00 -L- LT
FROM STA. 90+50 TO STA. 92+50 -L- LT
FROM STA. 87+50 TO STA. 89+00 -L- RT



FROM STA. 98+50 TO STA. 99+50 -L- LT
FROM STA. 90+50 TO STA. 99+50 -L- RT

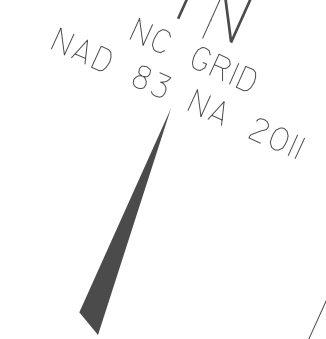


FROM STA. 89+00 TO STA. 90+00 -L- RT

-L-
PI Sta 90+79.99
 $\Delta = 21^\circ 17' 03.0''$ (RT)
 $D = 4' 52' 34.5''$
 $L = 436.49'$
 $T = 220.79'$
 $R = 1,175.00'$
 $DS = 55$ mph
 $SE = 06$

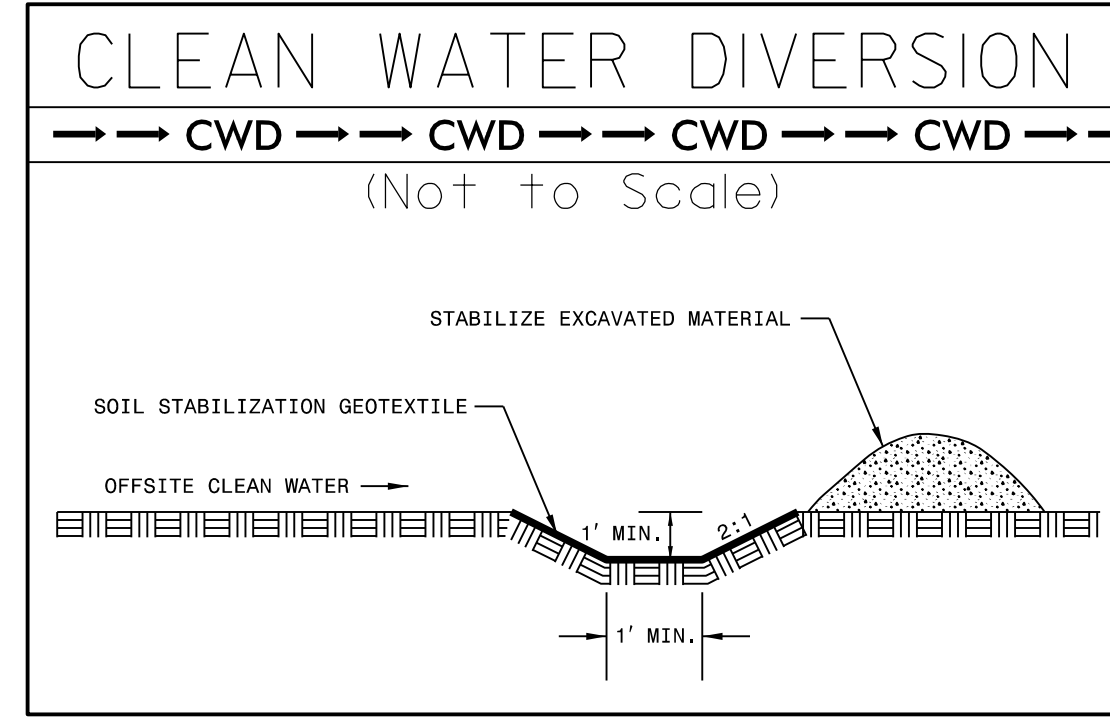
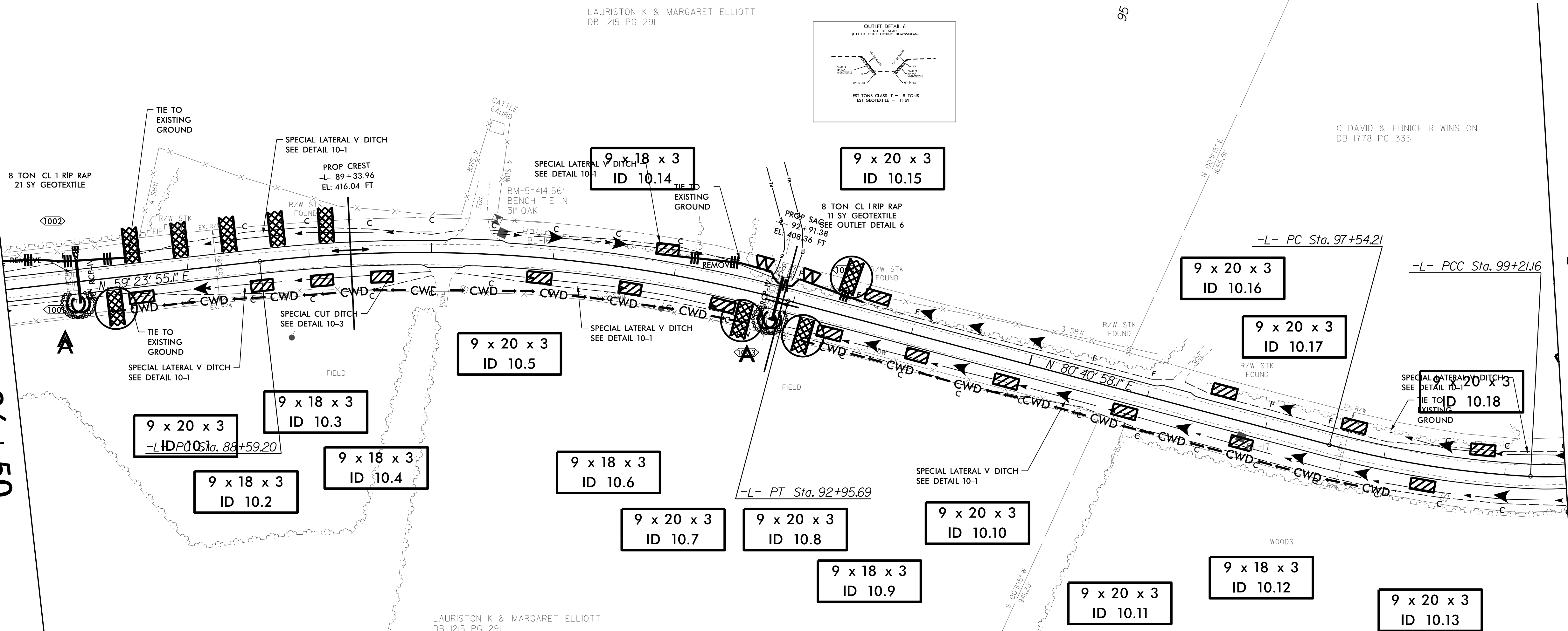
PI Sta 98+37.99
 $\Delta = 11^\circ 57' 24.1''$ (LT)
 $D = 7' 09' 43.1''$
 $L = 166.95'$
 $T = 83.78'$
 $R = 800.00'$
 $DS = 45$ mph
 $SE = 06$

PI Sta 100+07.09
 $\Delta = 36^\circ 34' 43.6''$ (LT)
 $D = 22' 02' 12.6''$
 $L = 165.99'$
 $T = 85.93'$
 $R = 260.00'$
 $DS = 30$ mph
 $SE = 06$




MATCHLINE -L- STA 86+50
(SEE SHEET 9)

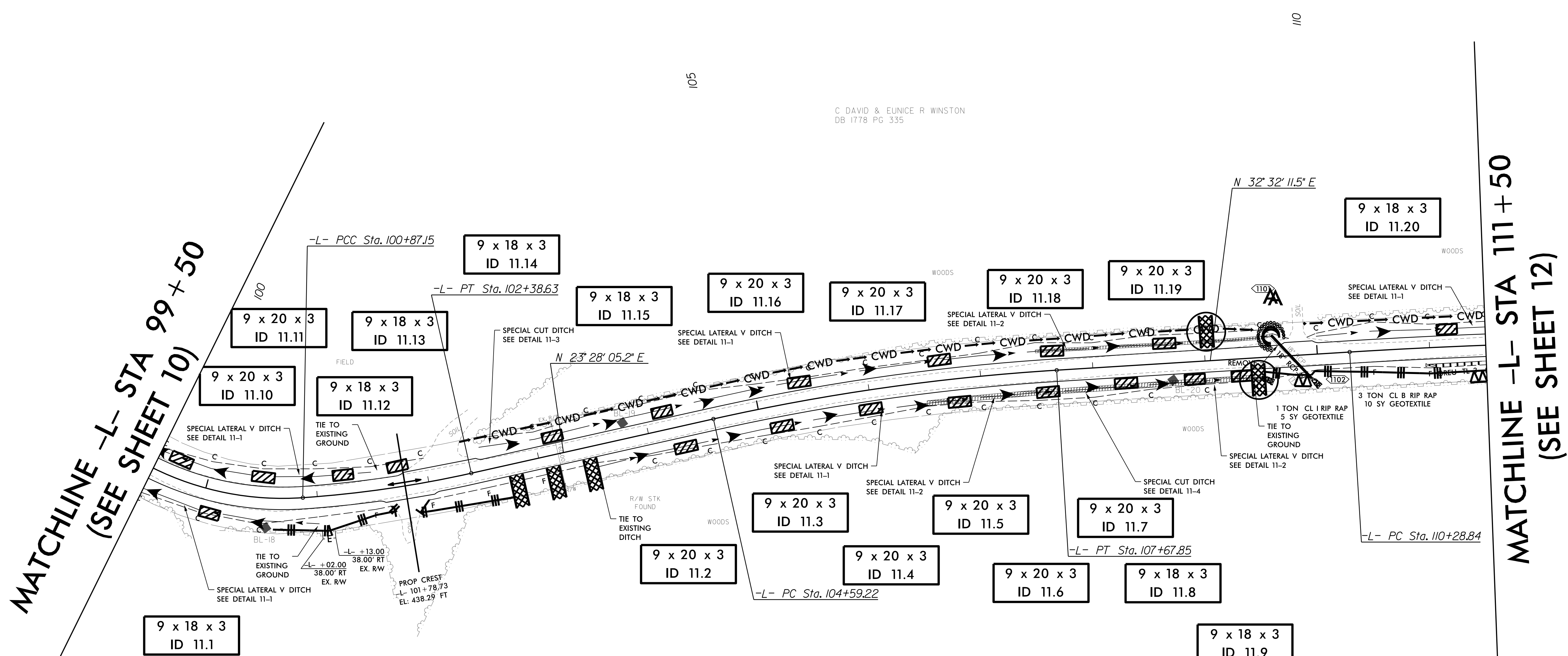
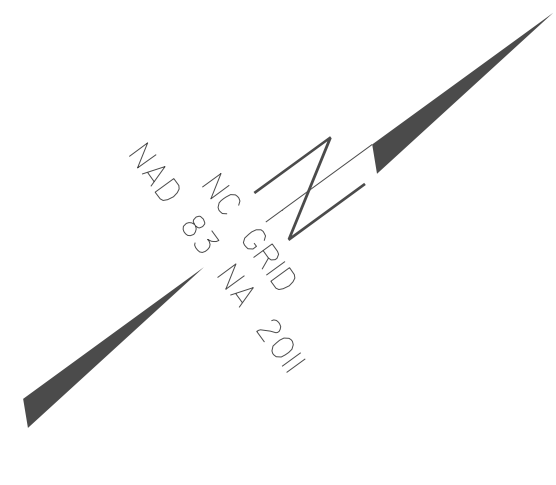
MATCHLINE -L- STA 99+50
(SEE SHEET 11)



FOR -L- PROFILE, SEE SHEETS 16 & 17

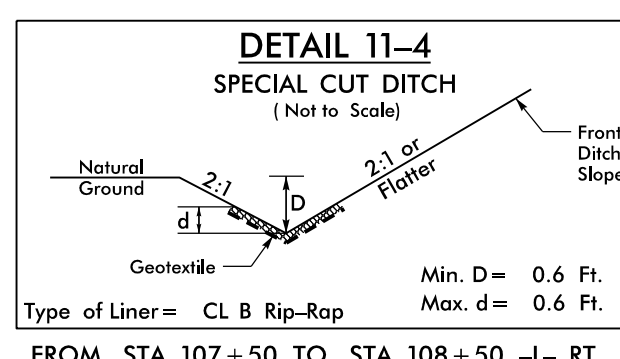
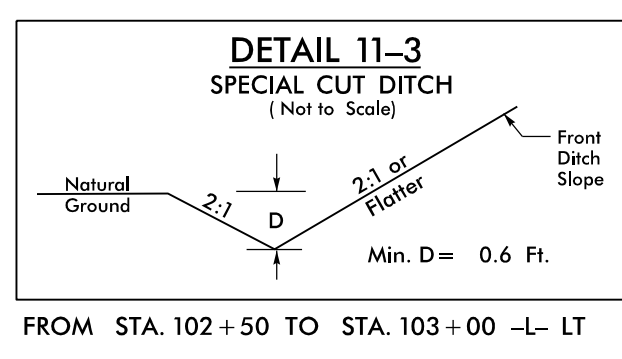
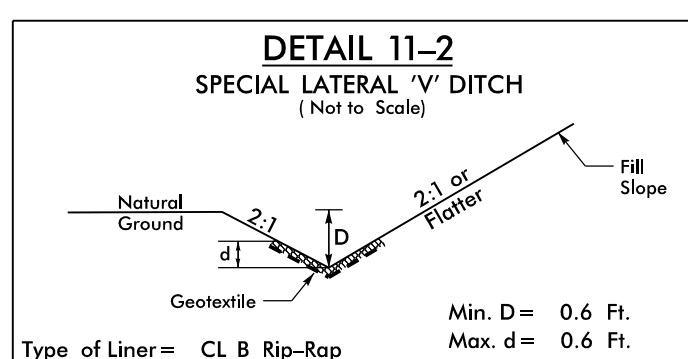
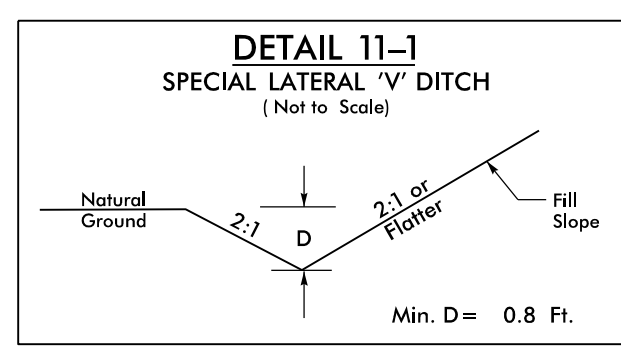
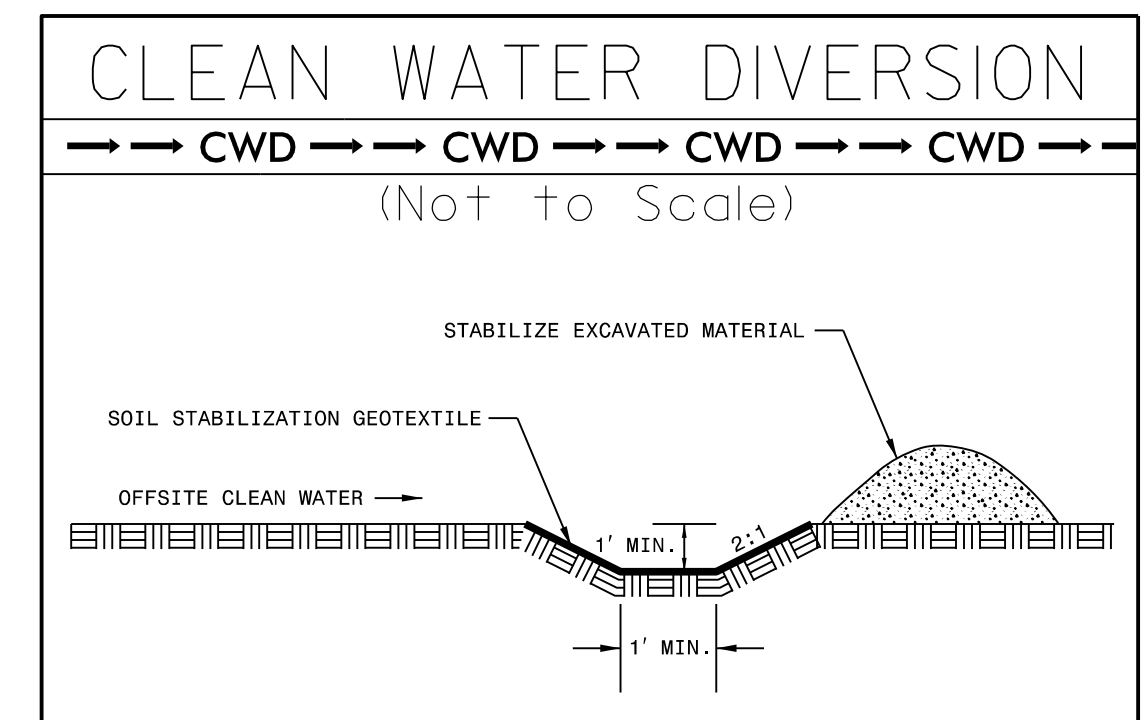
PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)</small>

-L-			
PI Sta 100+07.09 Δ = 36° 34' 43.6" (LT) D = 22° 02' 12.6" L = 165.99' T = 85.93' R = 260.00' DS = 30 mph SE = 06	PI Sta 101+63.04 Δ = 8° 40' 45.1" (LT) D = 5° 43' 46.5" L = 151.48' T = 75.89' R = 1,000.00' DS = 55 mph SE = 06	PI Sta 106+13.86 Δ = 9° 04' 06.2" (RT) D = 2° 56' 17.7" L = 308.63' T = 154.64' R = 1,950.00' DS = 60 mph SE = 06	PI Sta 111+01.99 Δ = 1° 40' 34.9" (RT) D = 1° 08' 45.3" L = 146.29' T = 73.15' R = 5,000.00' DS = 60 mph SE = 03



MATCHLINE -L- STA 99+50
(SEE SHEET 10)

MATCHLINE -L- STA 111+50
(SEE SHEET 12)



FROM STA. 99+50 TO STA. 101+50 -L- LT
FROM STA. 103+00 TO STA. 109+60 -L- LT
FROM STA. 110+00 TO STA. 111+50 -L- LT
FROM STA. 99+50 TO STA. 101+00 -L- RT
FROM STA. 103+50 TO STA. 106+50 -L- RT

FROM STA. 107+50 TO STA. 109+60 -L- LT
FROM STA. 106+50 TO STA. 107+50 -L- RT
FROM STA. 108+50 TO STA. 109+50 -L- RT

FROM STA. 102+50 TO STA. 103+00 -L- LT


FROM STA. 107+50 TO STA. 108+50 -L- RT

FOR -L- PROFILE, SEE SHEET 17

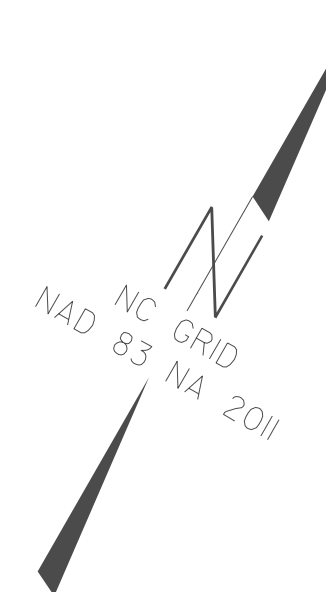
REVISIONS
07 JUL 2022 15:59
N:\2020\2020-03000\000 NCDOT 2020 Statewide CEI Services\Transportation\20-03000\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC-21_Final.dgn
8/17/99

C. DAVID & EUNICE R WINSTON
DB 1778 PG 335

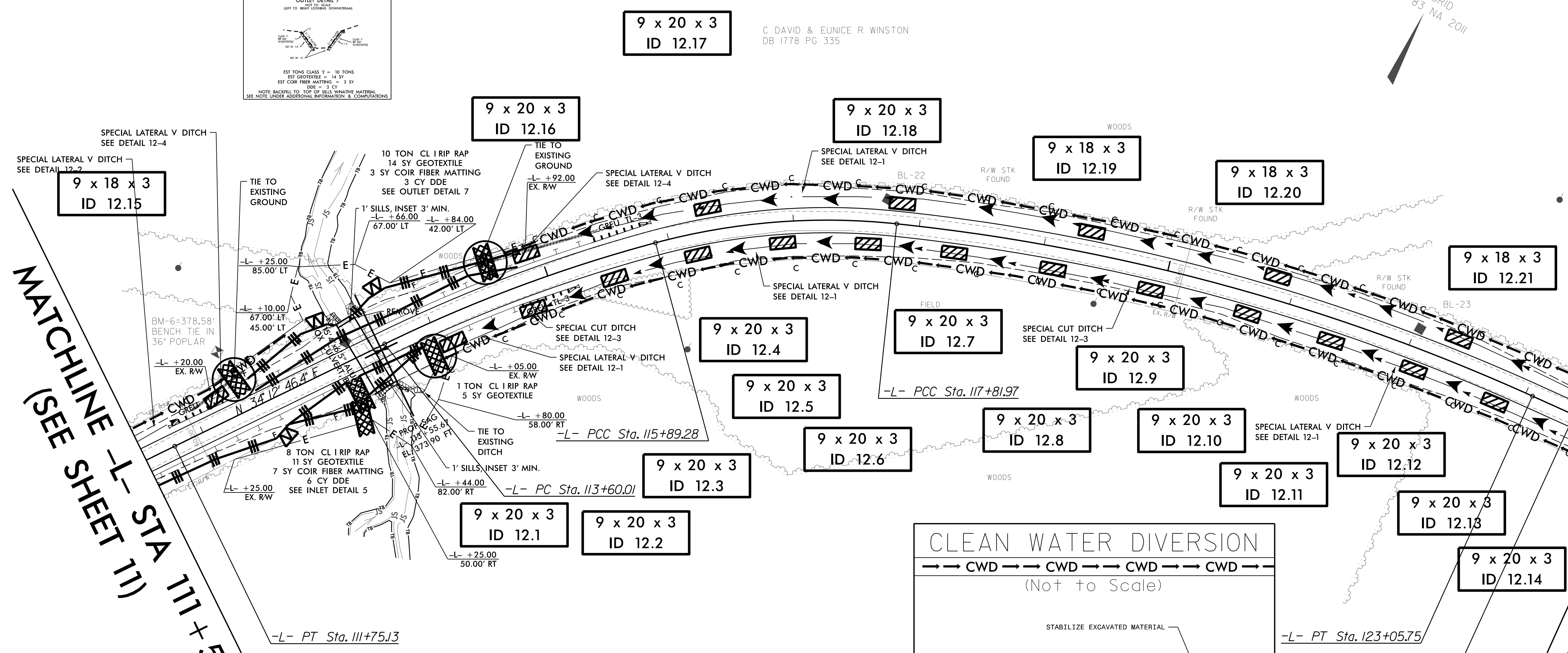
C. DAVID & EUNICE R WINSTON
DB 1778 PG 335

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)</small>

<i>PI Sta 111+01.99</i> $\Delta = 1^{\circ} 40' 34.9" (RT)$ $D = 1^{\circ} 08' 45.3"$ $L = 146.29'$ $T = 73.15'$ $R = 5,000.00'$ $DS = 60 \text{ mph}$ $SE = 03$	<i>PI Sta 114+74.99</i> $\Delta = 10^{\circ} 56' 49.8" (RT)$ $D = 4^{\circ} 46' 28.7"$ $L = 229.28'$ $T = 114.99'$ $R = 1,200.00'$ $DS = 55 \text{ mph}$ $SE = 06$	<i>PI Sta 116+86.72</i> $\Delta = 21^{\circ} 01' 44.5" (RT)$ $D = 10^{\circ} 54' 48.5"$ $L = 192.69'$ $T = 97.44'$ $R = 525.00'$ $DS = 40 \text{ mph}$ $SE = 06$	<i>PI Sta 120+46.11</i> $\Delta = 18^{\circ} 17' 55.8" (RT)$ $D = 3^{\circ} 29' 37.1"$ $L = 523.77'$ $T = 264.14'$ $R = 1,640.00'$ $DS = 60 \text{ mph}$ $SE = 06$
---	---	---	---

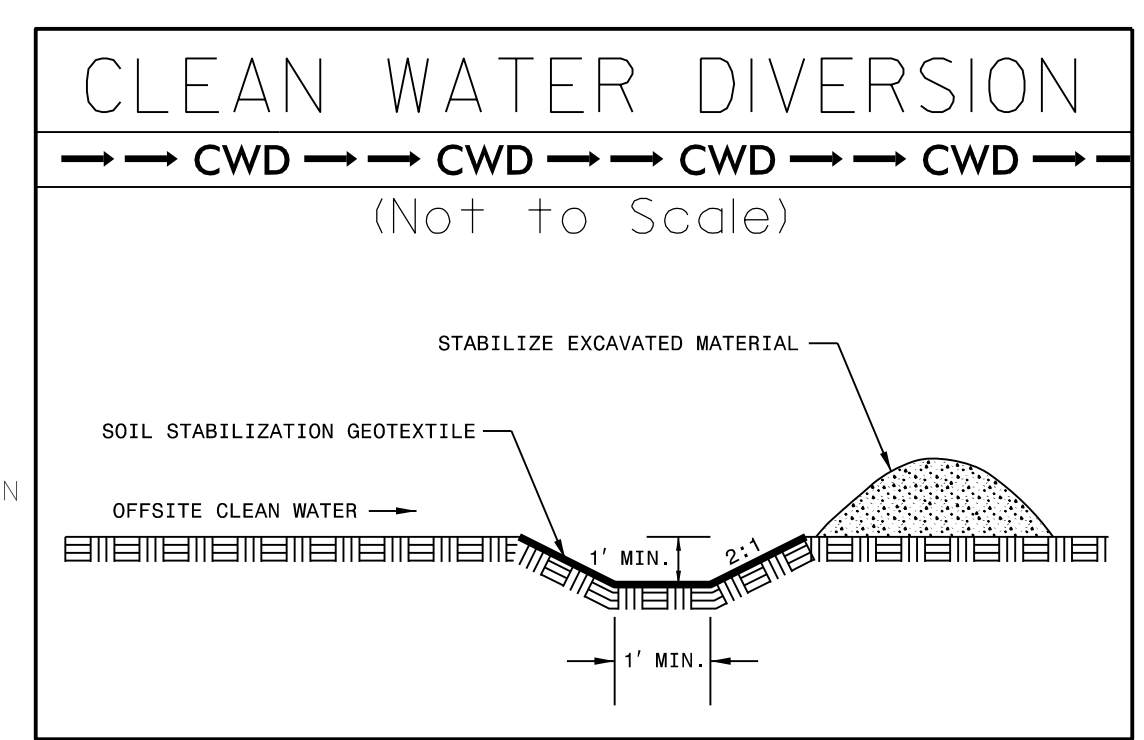


C DAVID & EUNICE R WINSTON
DB 1778 PG 335

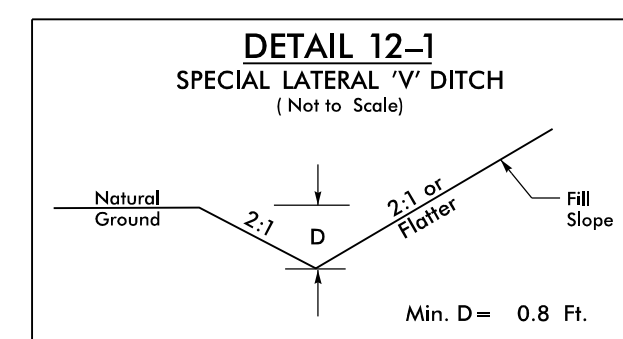


MATCHLINE -L- STA 111+50
(SEE SHEET 11)

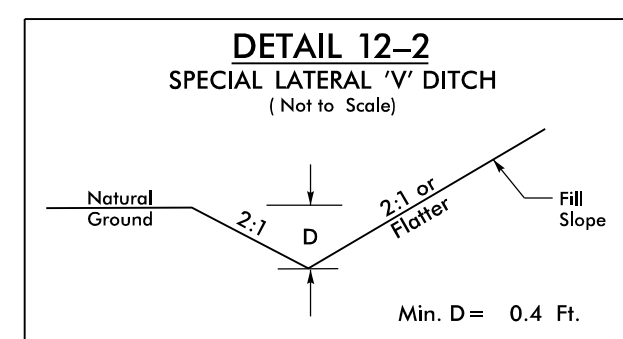
MATCHLINE -L- STA 124+00
(SEE SHEET 13)



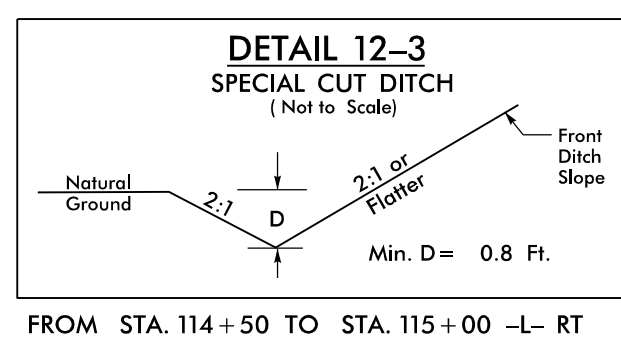
C DAVID & EUNICE R WINSTON
DB 1778 PG 335



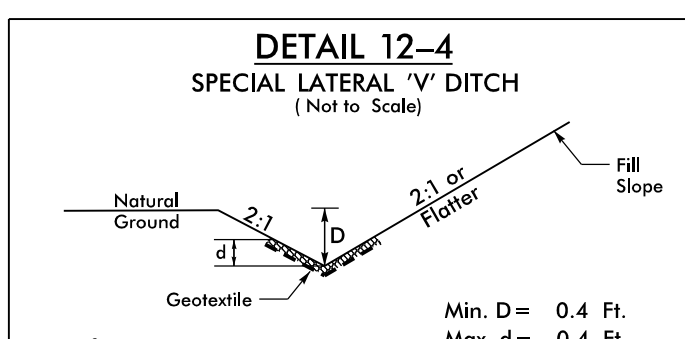
FROM STA. 115+50 TO STA. 124+00 -L- LT
FROM STA. 114+00 TO STA. 114+50 -L- RT
FROM STA. 115+00 TO STA. 119+00 -L- RT
FROM STA. 120+00 TO STA. 124+00 -L- RT



FROM STA. 111+50 TO STA. 112+00 -L- LT



FROM STA. 114+50 TO STA. 115+00 -L- RT
FROM STA. 119+00 TO STA. 120+00 -L- RT




FROM STA. 112+00 TO STA. 112+50 -L- LT
FROM STA. 114+50 TO STA. 115+50 -L- LT

REVISIONS
 8/17/99
 07 JUL 2002 15:58
 N:\2002\0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway-EC-22-Final.dgn
 2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway-EC-22-Final.dgn

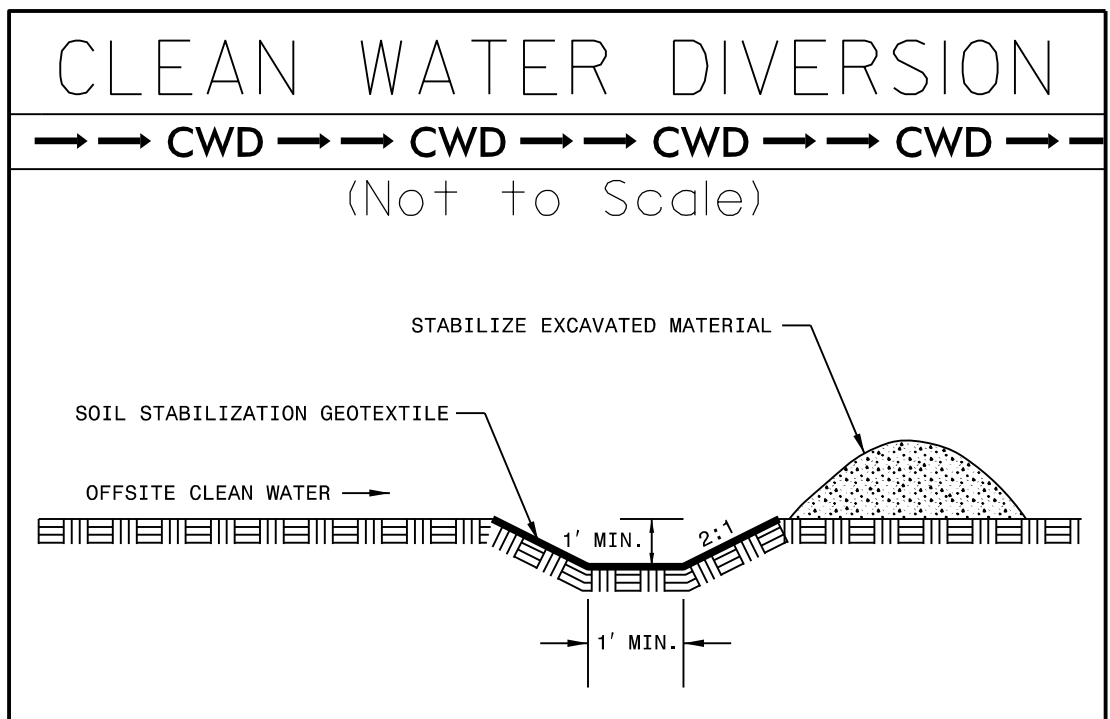
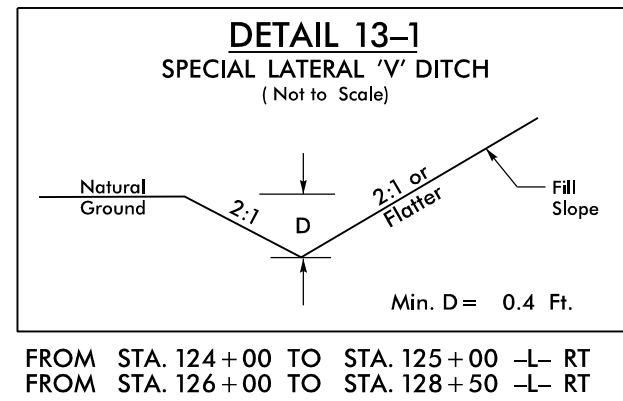
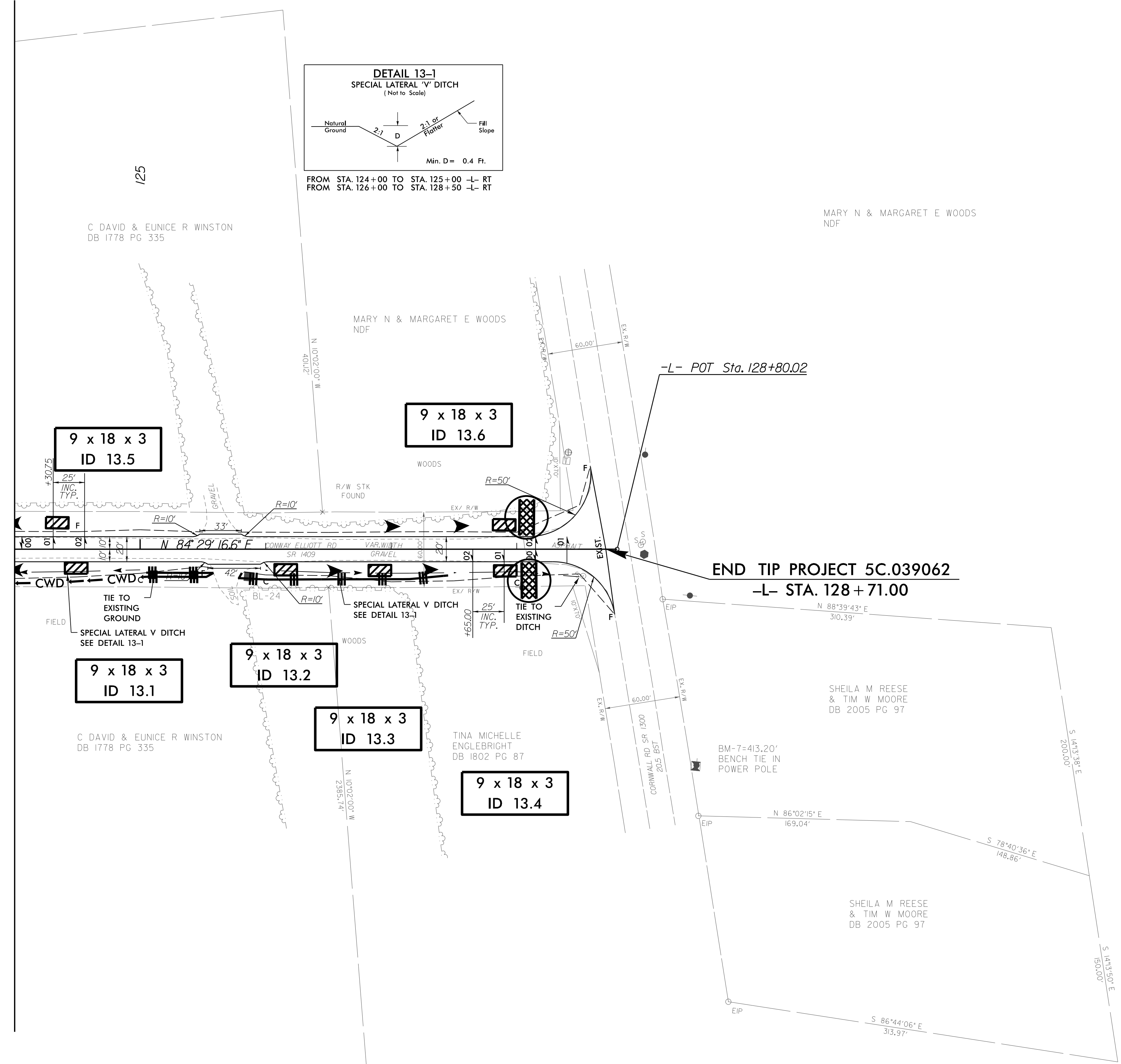
8/17/99

REVISIONS
07 JUL 2002 16:58
N:\2002-0300\000 NCDOT 2020 Statewide CE Services\Transportation\20-0300\015 Division 5 Secondary Rd Maint\Site 6 - Conway Elliott Rd\Design\Environmental\Design\Conway_EC_23_Final.dgn
\$\$\$\$\$

PROJECT REFERENCE NO. 5C.039062	SHEET NO. EC-23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 <small>NC FIRM LICENSE No: P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)</small>

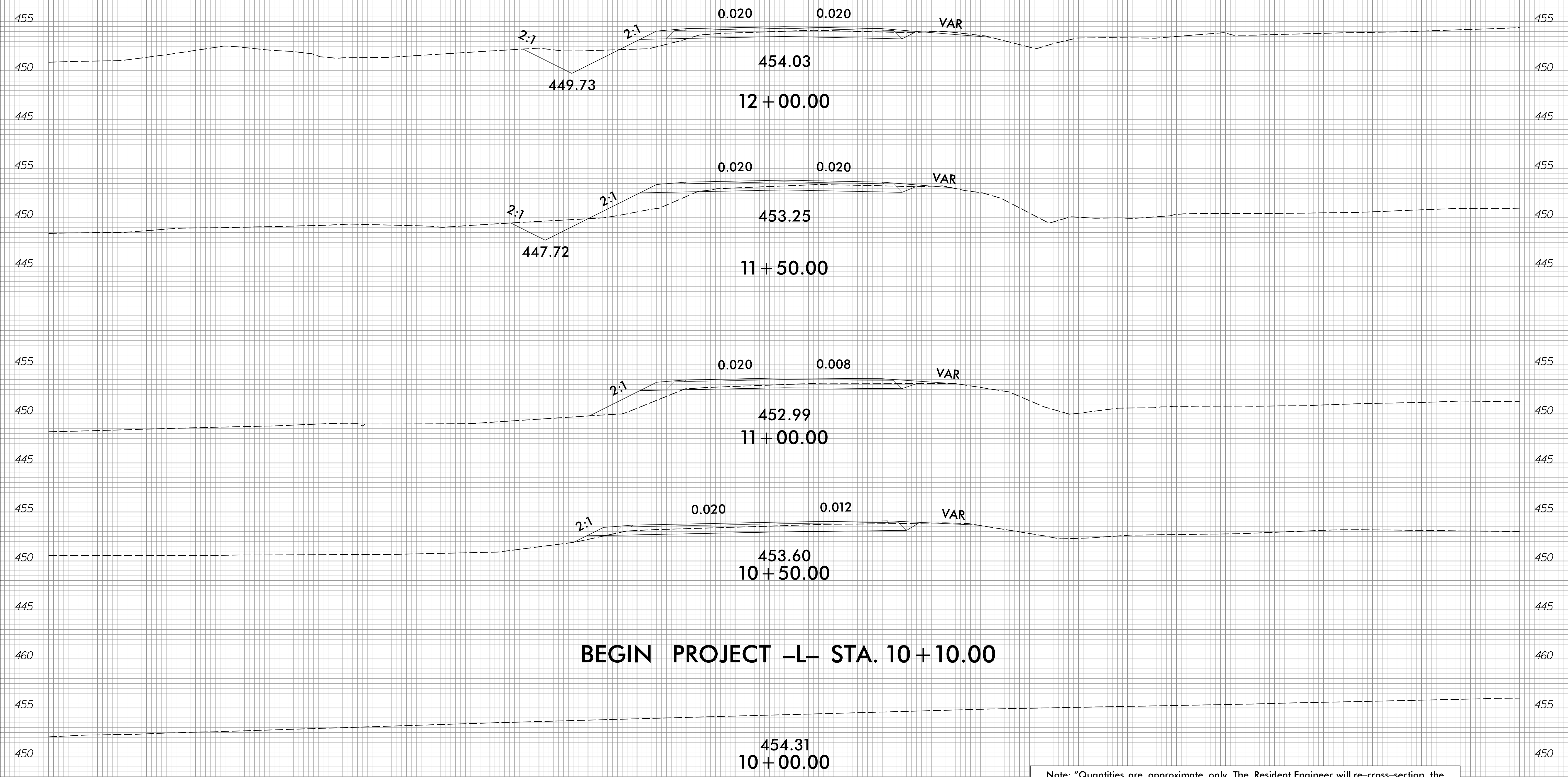


MATCHLINE -L- STA 124+00
(SEE SHEET 12)



FOR -L- PROFILE, SEE SHEET 18

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



BEGIN PROJECT -L- STA. 10+10.00

Note: "Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid."

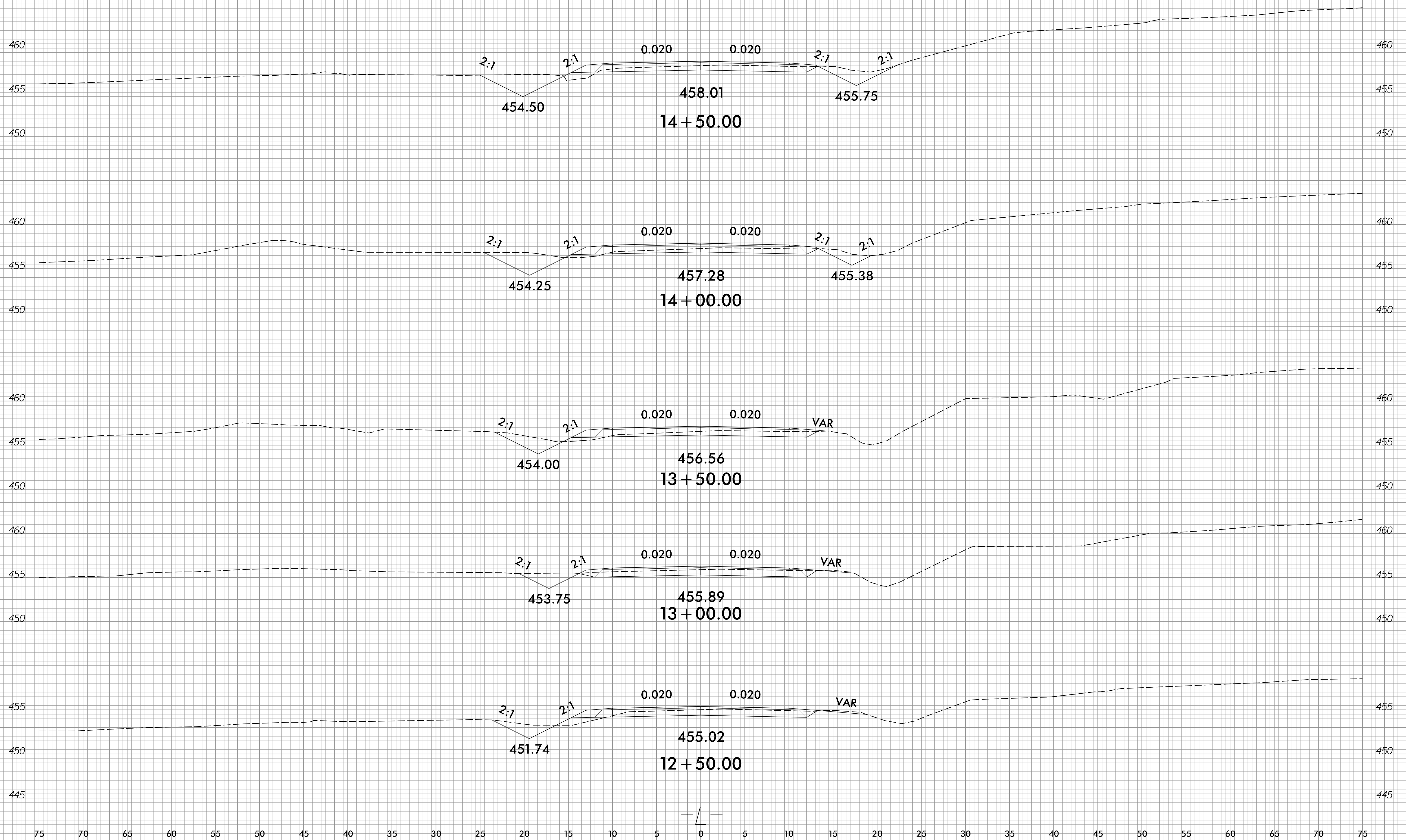
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-2

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

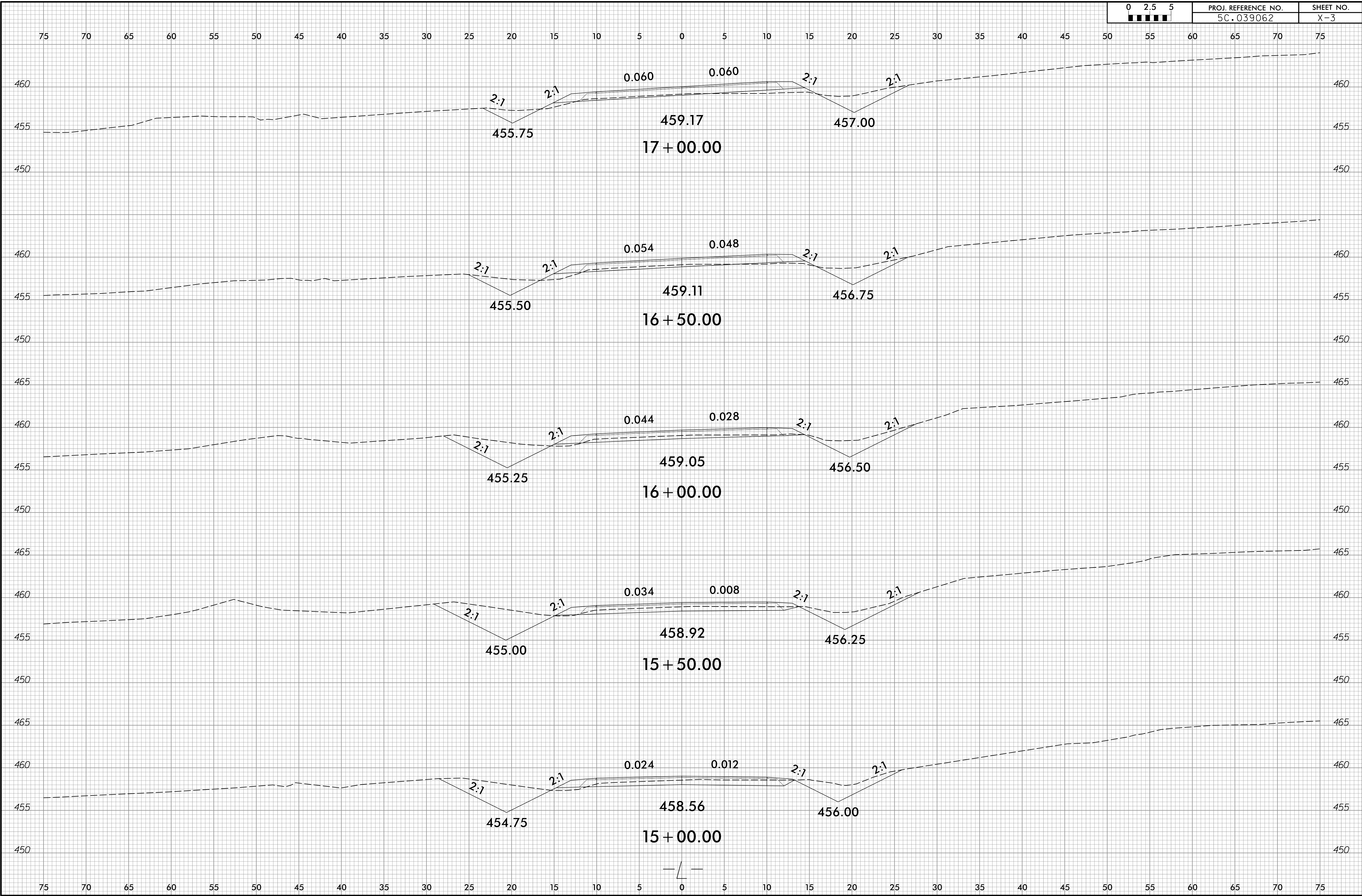


07-JUL-2022 16:54
 Conway_Hdr_xpl.dgn
 Spencer.mbr

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-3

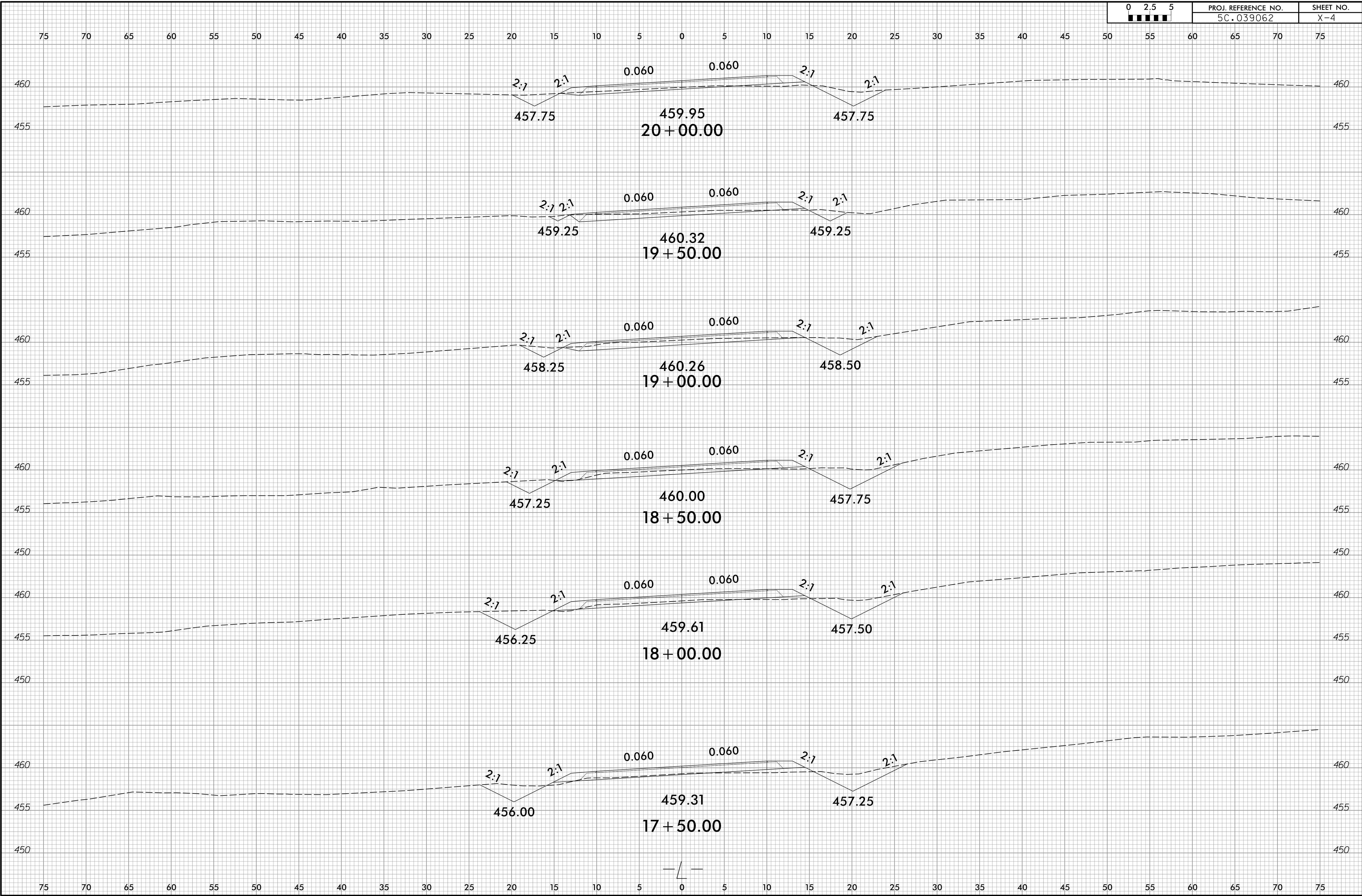


07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
spencer.miller@ttt

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-4



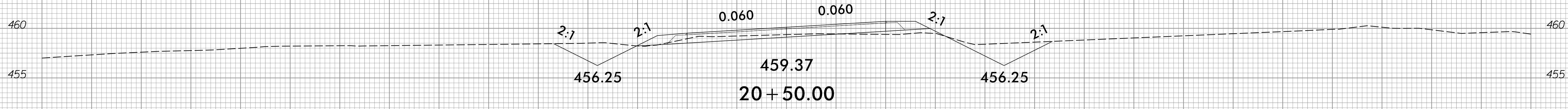
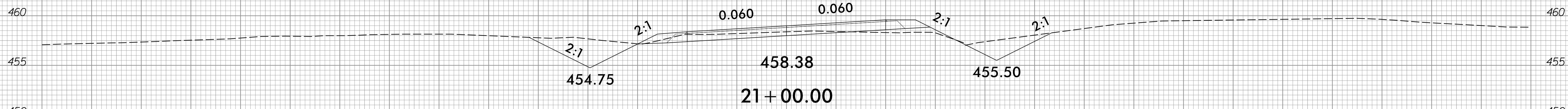
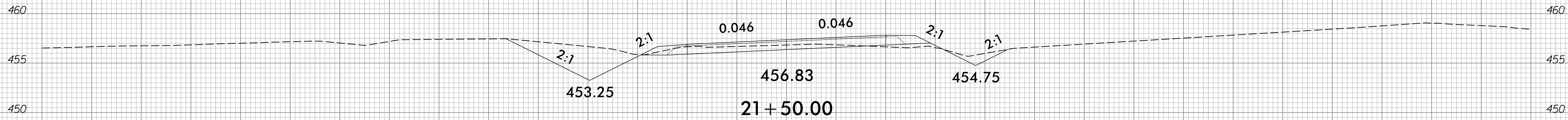
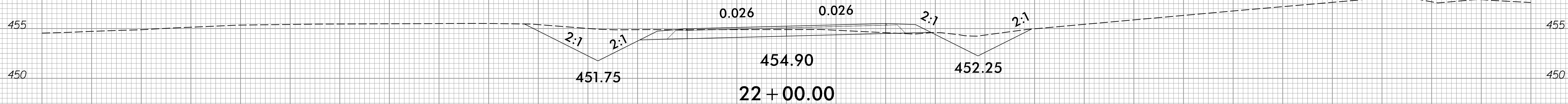
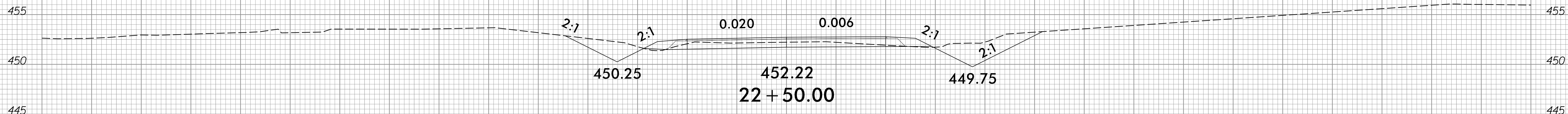
07-JUL-2022 16:54
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-5

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



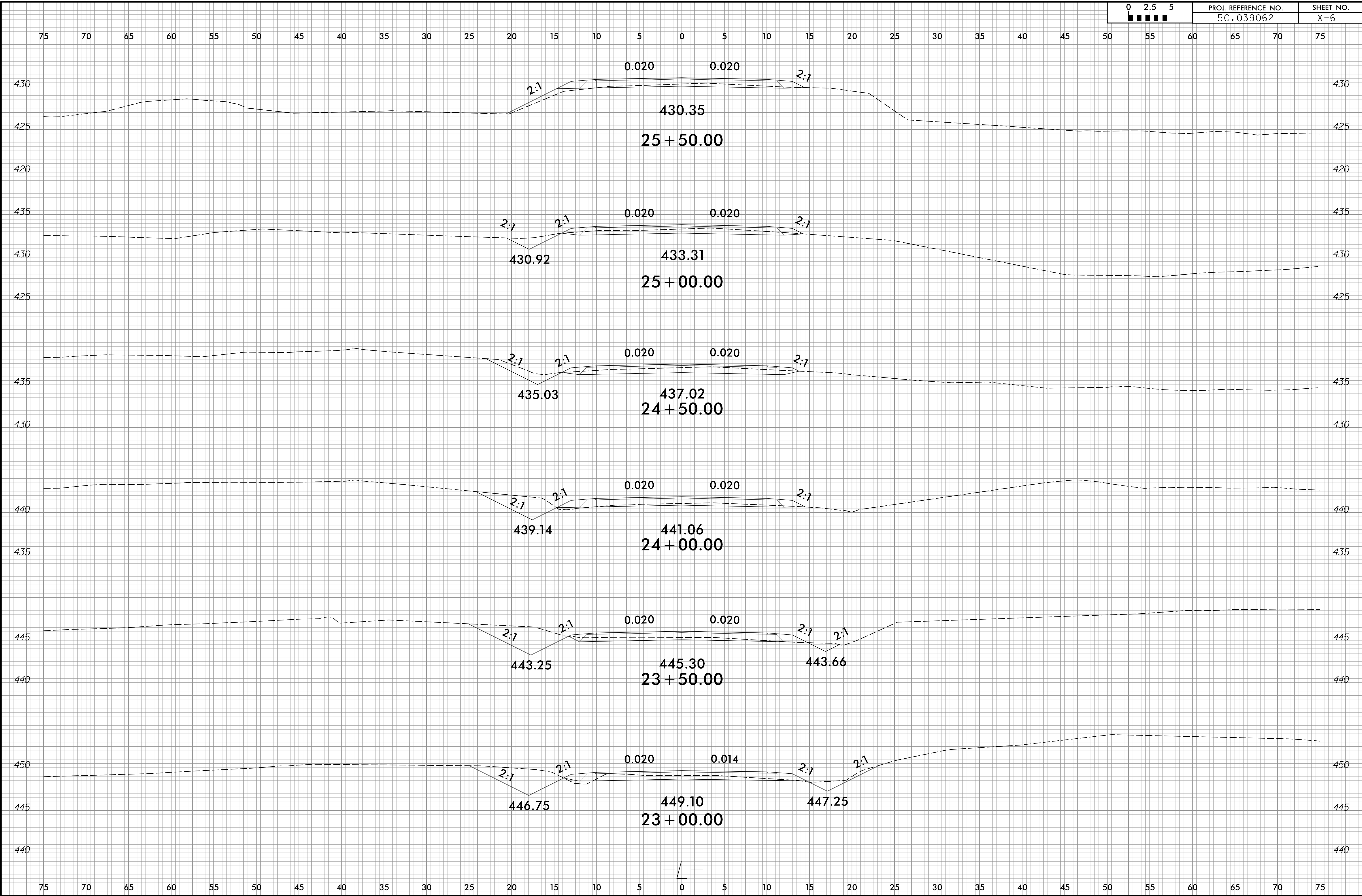
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:54
 Conway_Hdly_xpl.dgn
 Spencer.mbr/ljt

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-6



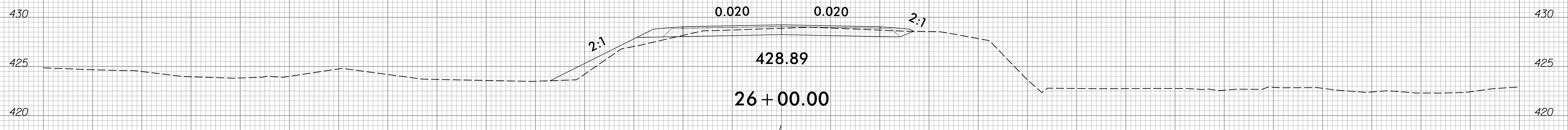
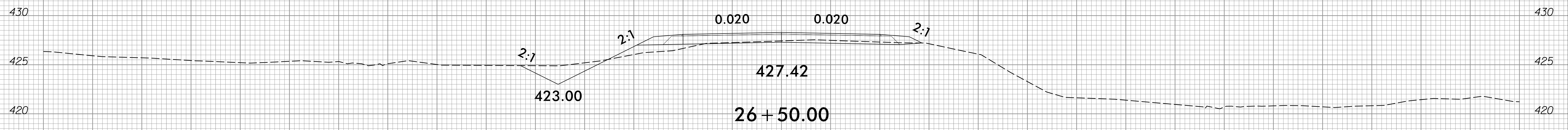
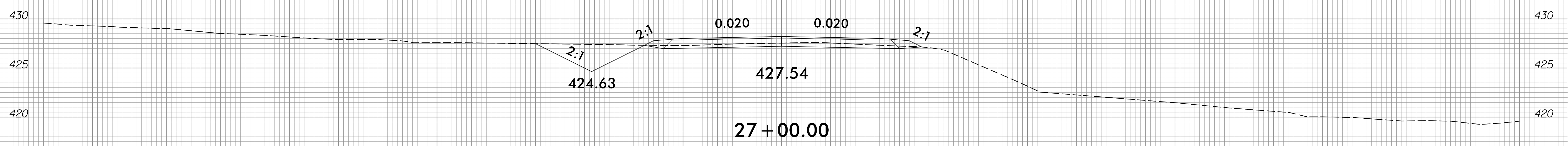
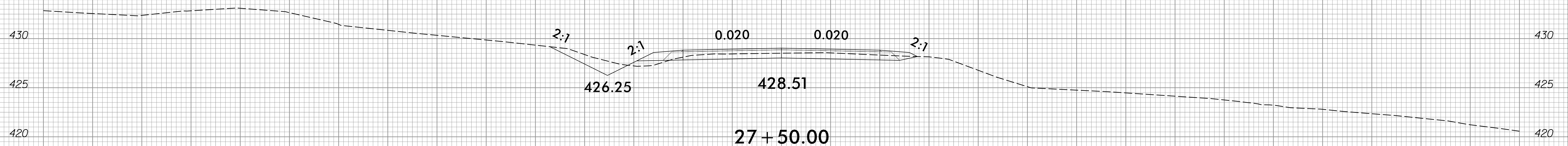
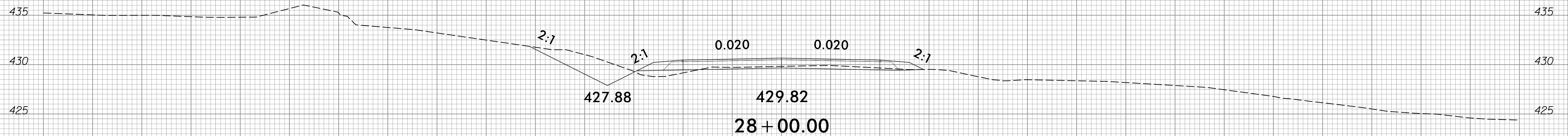
07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-7

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



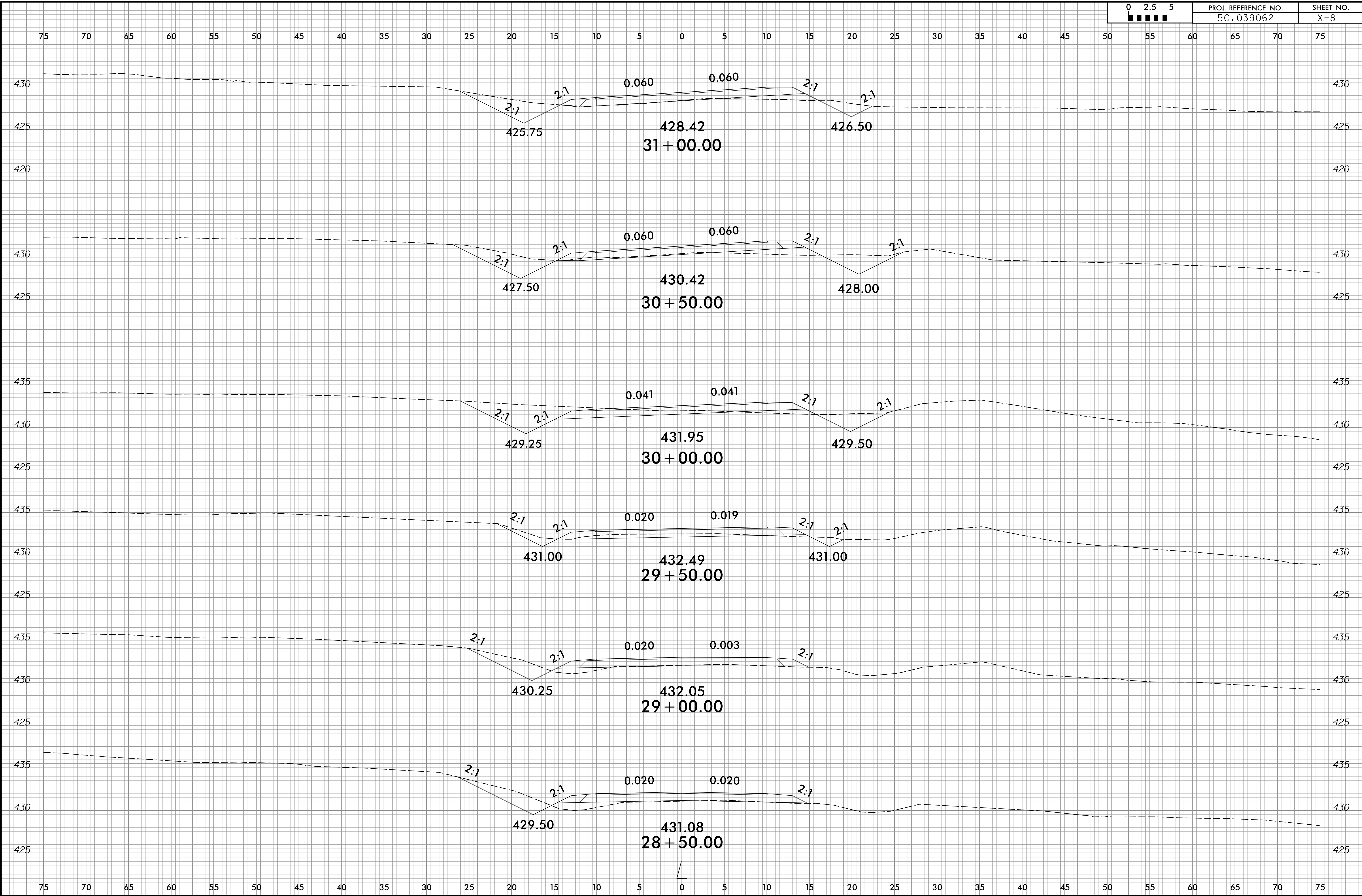
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer.mbr/ljt

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-8



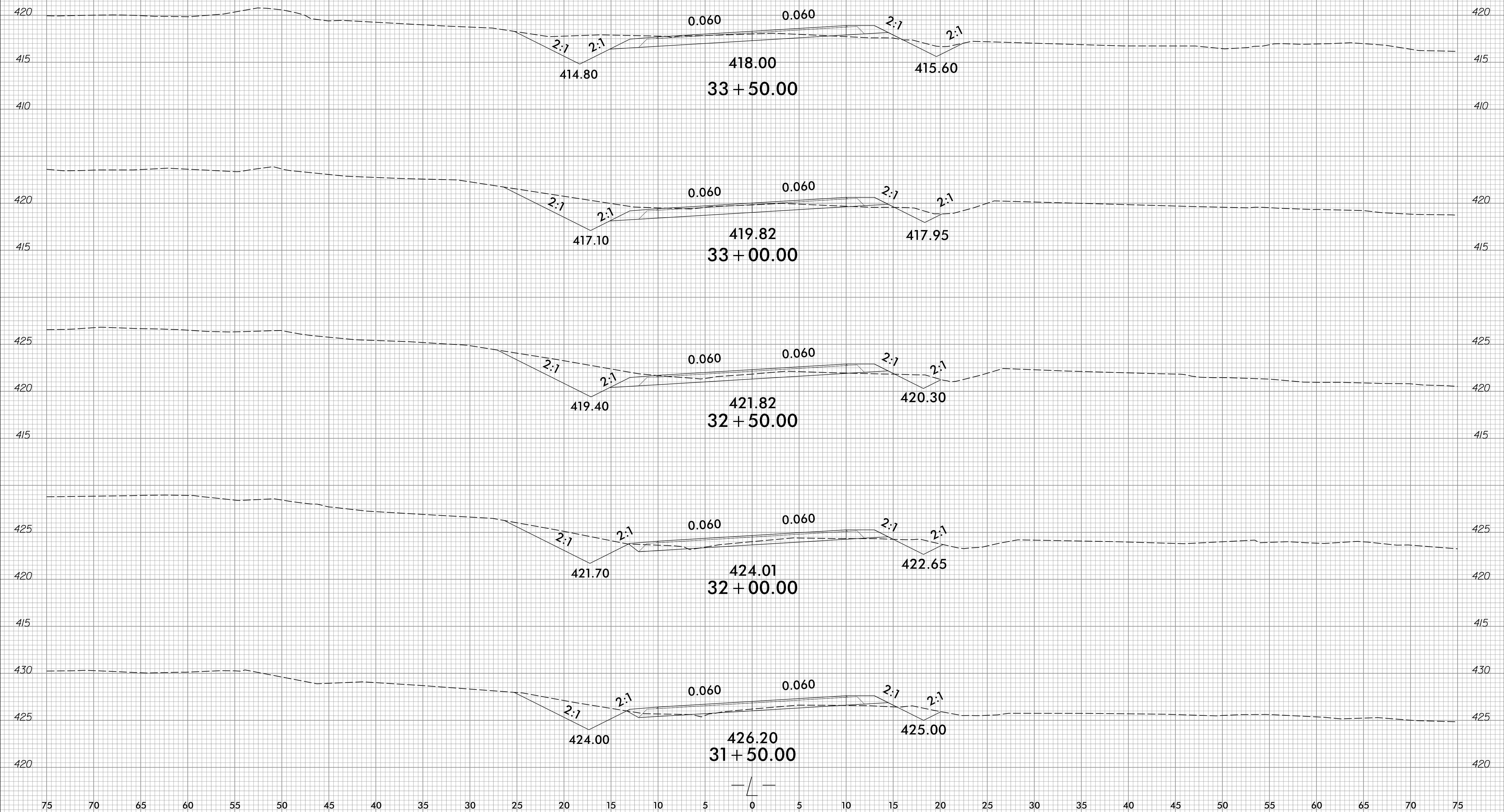
07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer.mbr

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-9

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



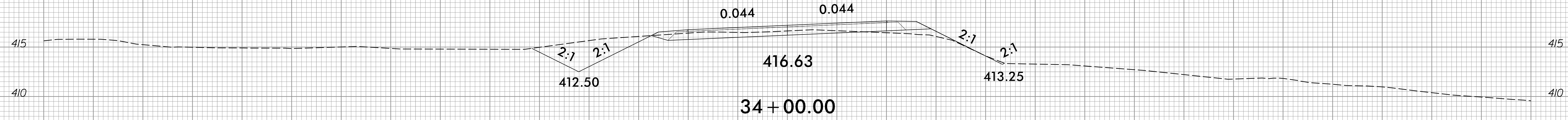
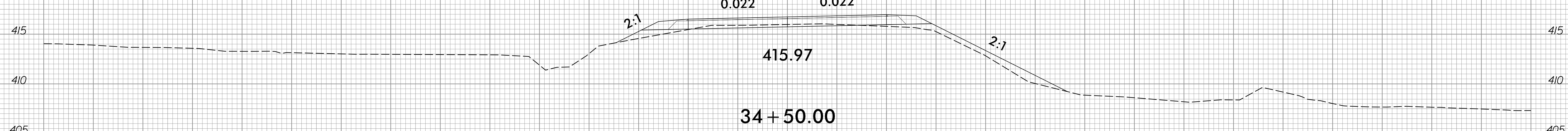
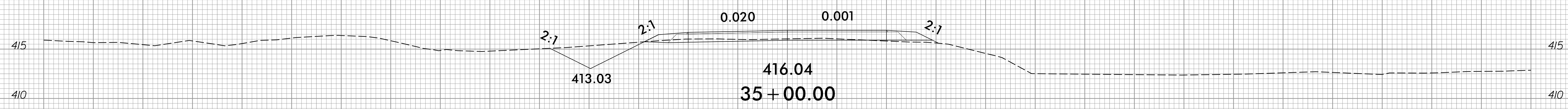
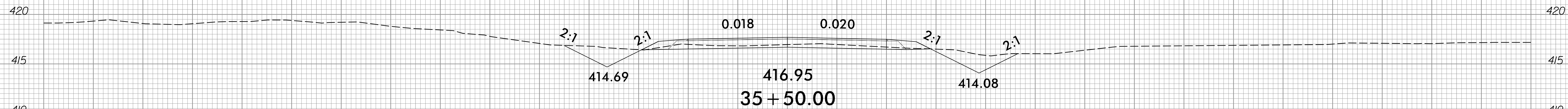
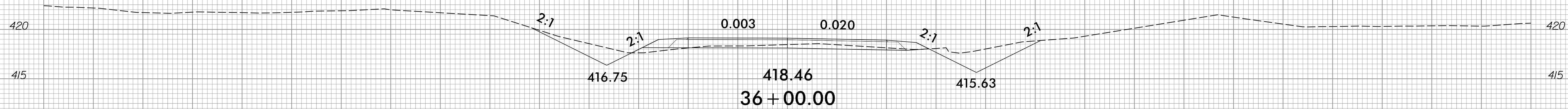
07-JUL-2022 16:54
 Conway_Hdr_xpl.dgn
 Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-10

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

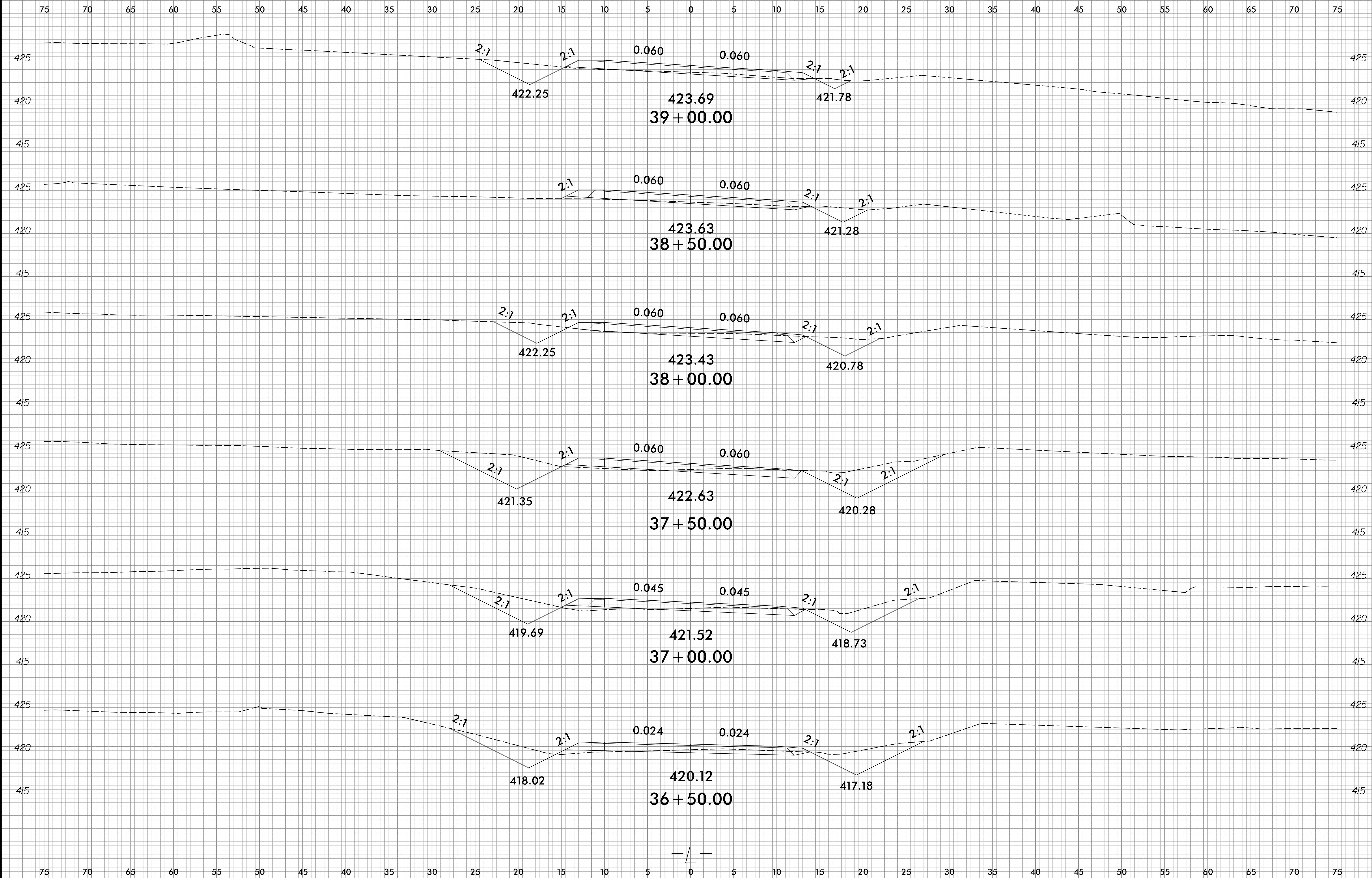
07-JUL-2022 16:54
 Conway_Hdr_xpl.dgn
 Spencer.mbr

6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-11

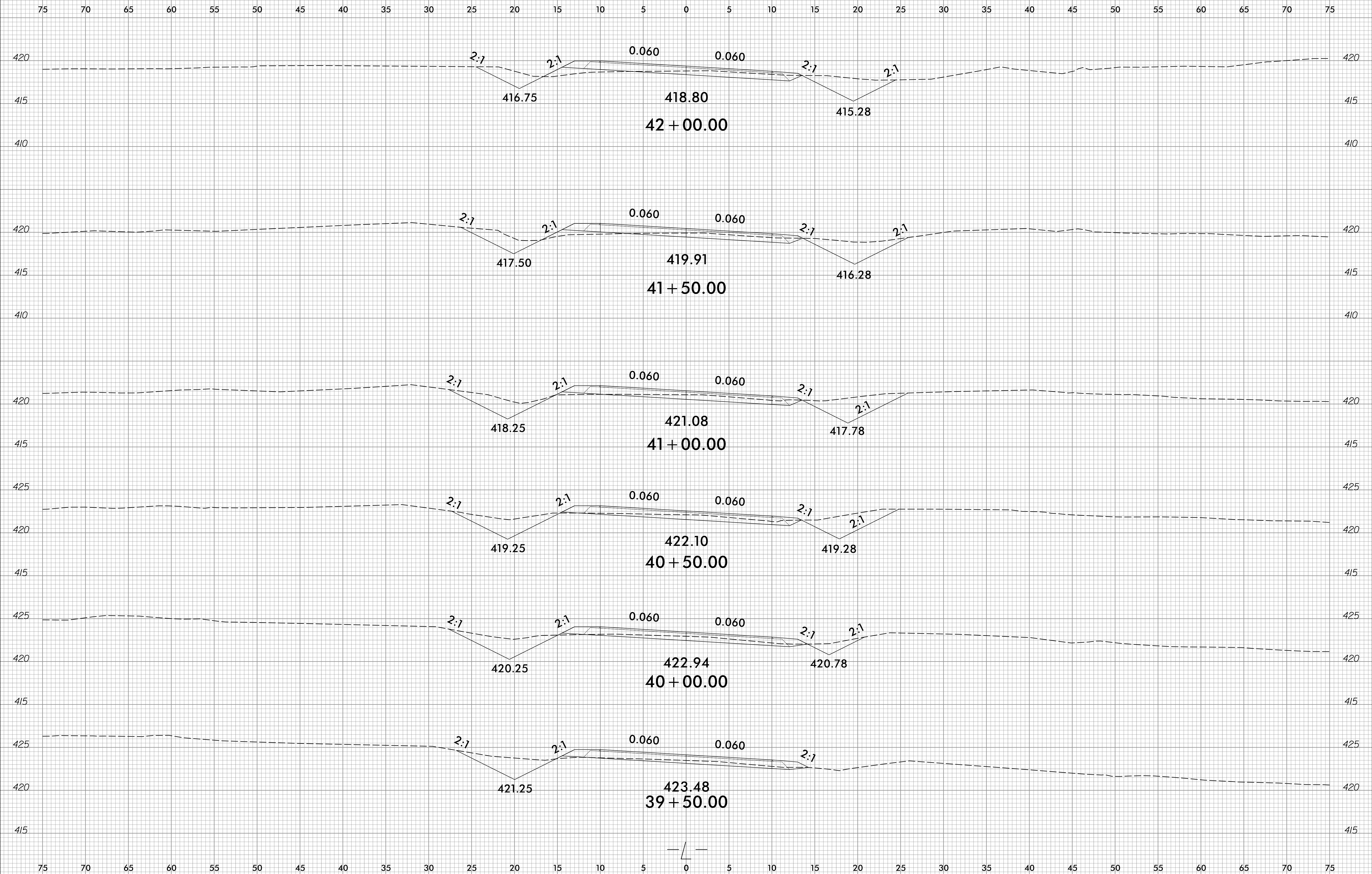


07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer.mbr

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-12



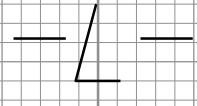
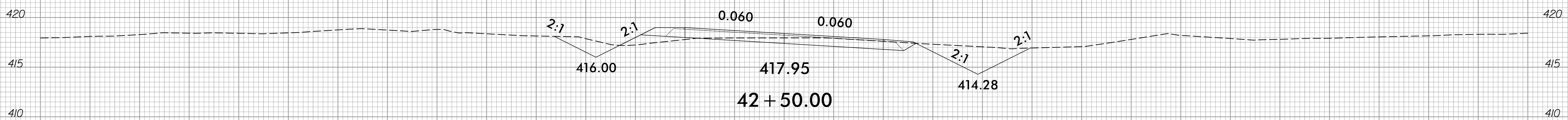
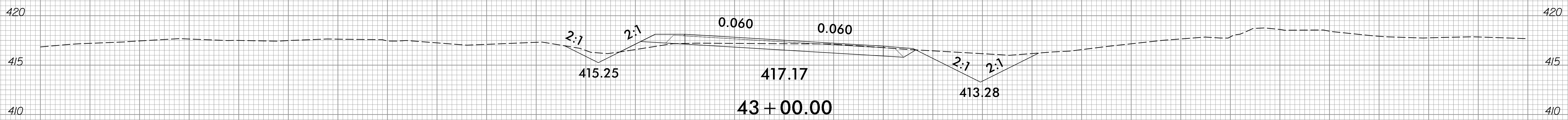
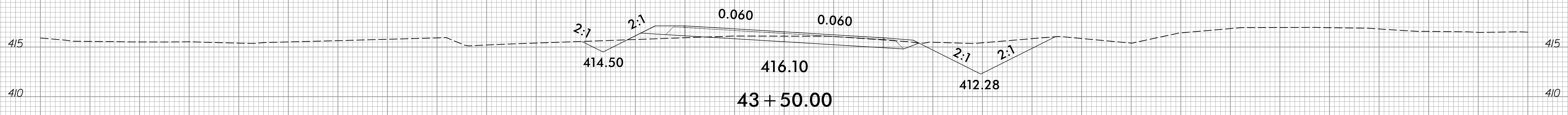
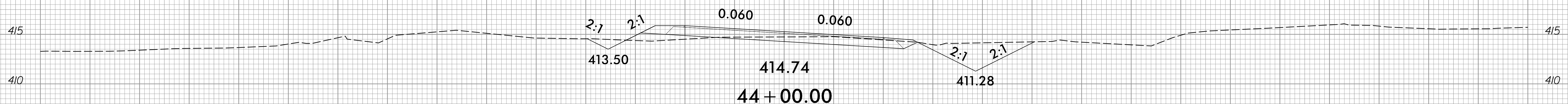
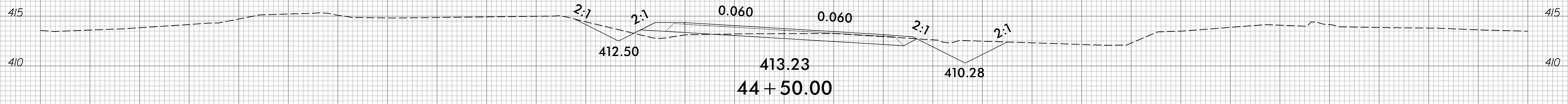
07-JUL-2022 16:54
Conway_Hdwy_xpl.dgn
Spencer.mbr

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-13

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

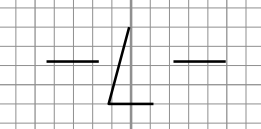
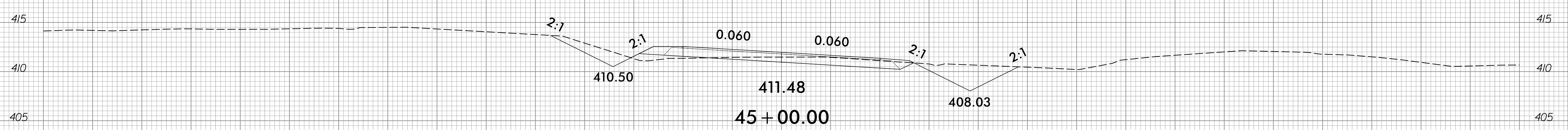
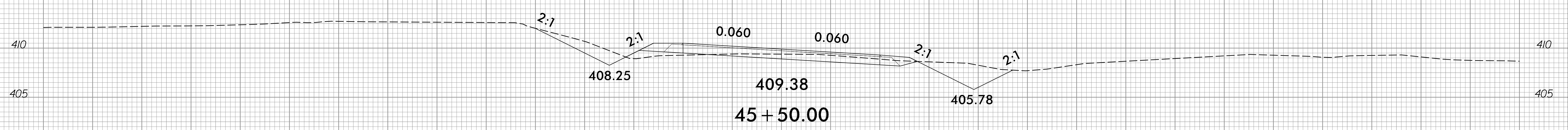
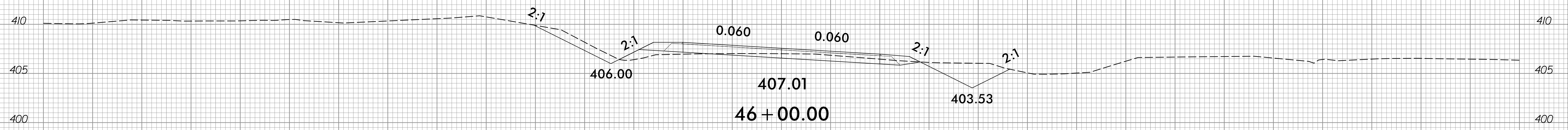
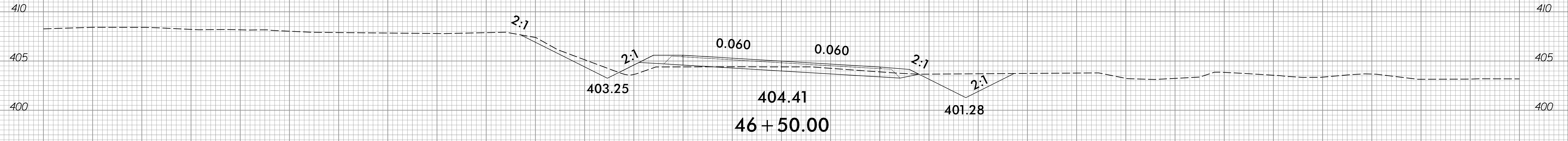
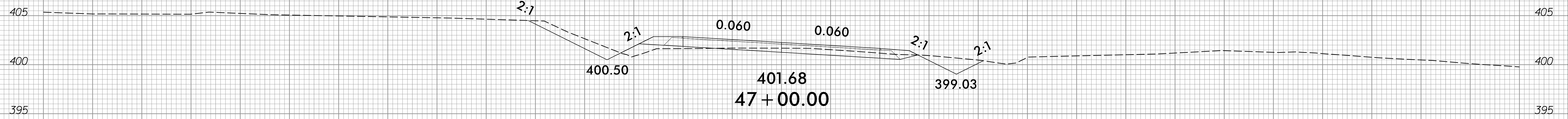


07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer, Amber LTT

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



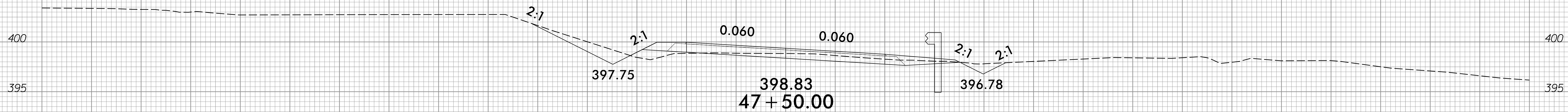
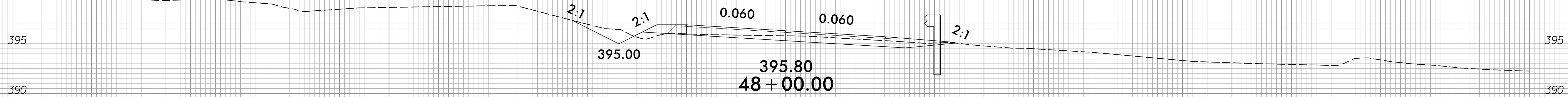
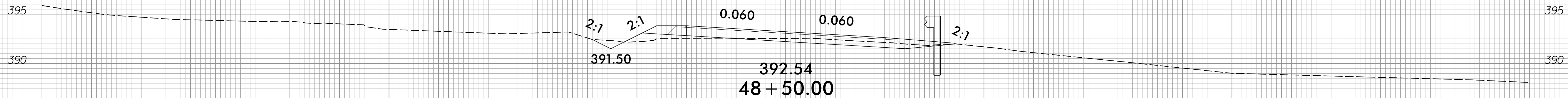
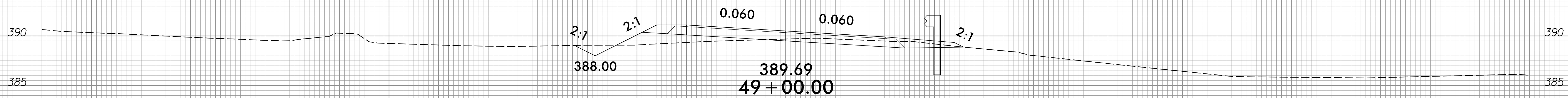
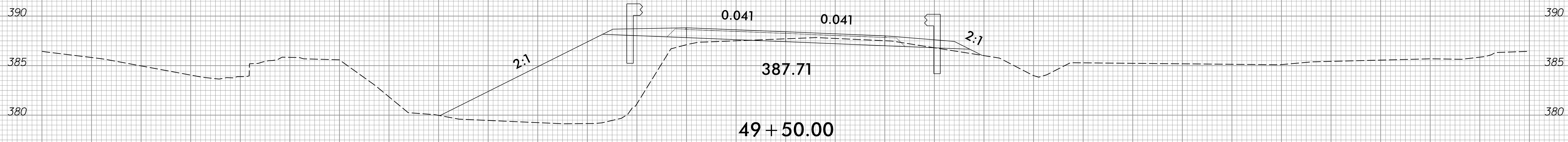
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-15

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

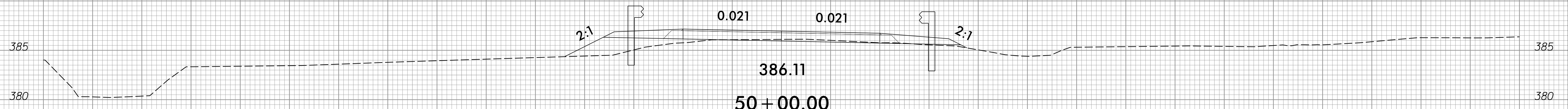
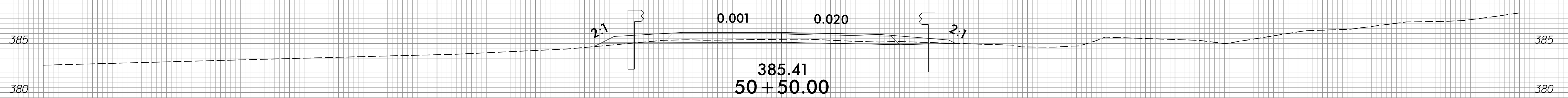
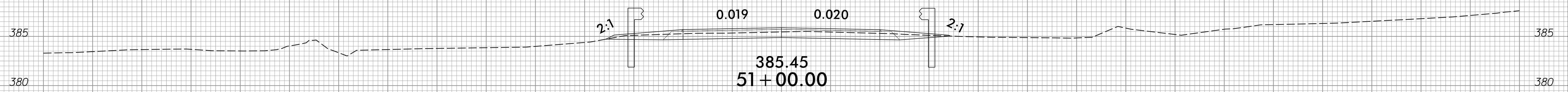
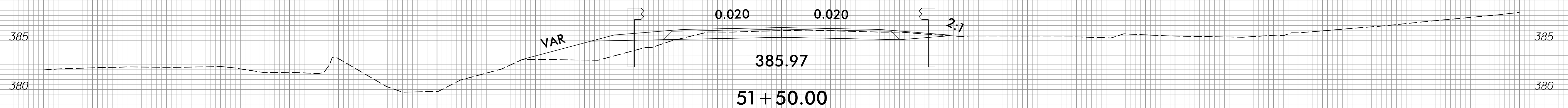
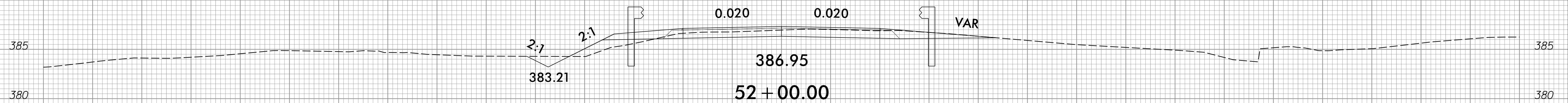
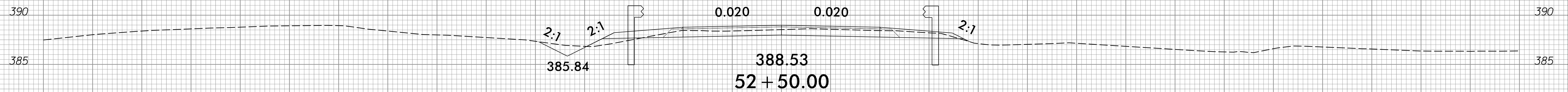
07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
spencer.miller

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

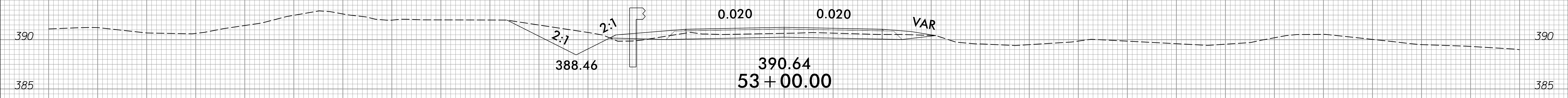
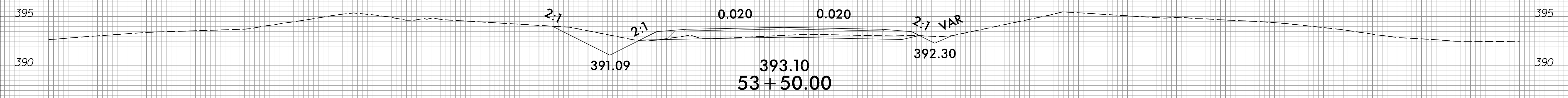
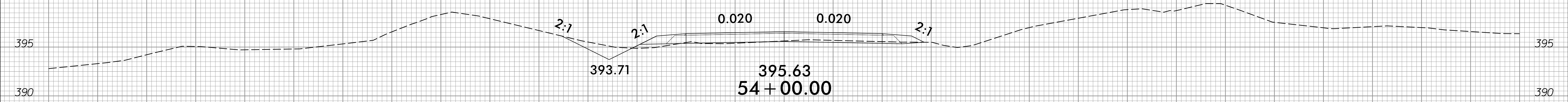
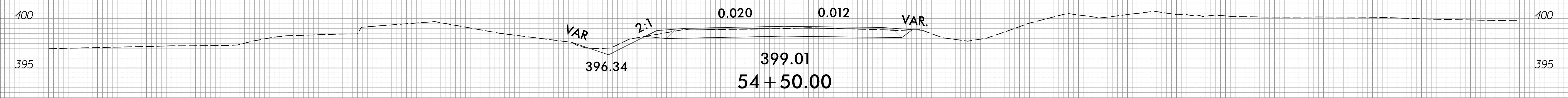
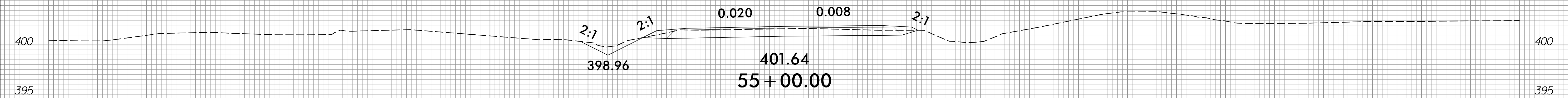
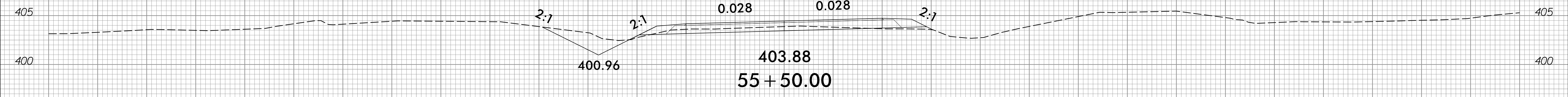
07-JUL-2022 16:54
 Conway_Hdly_xpl.dgn
 Spencer.mbr

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-17

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

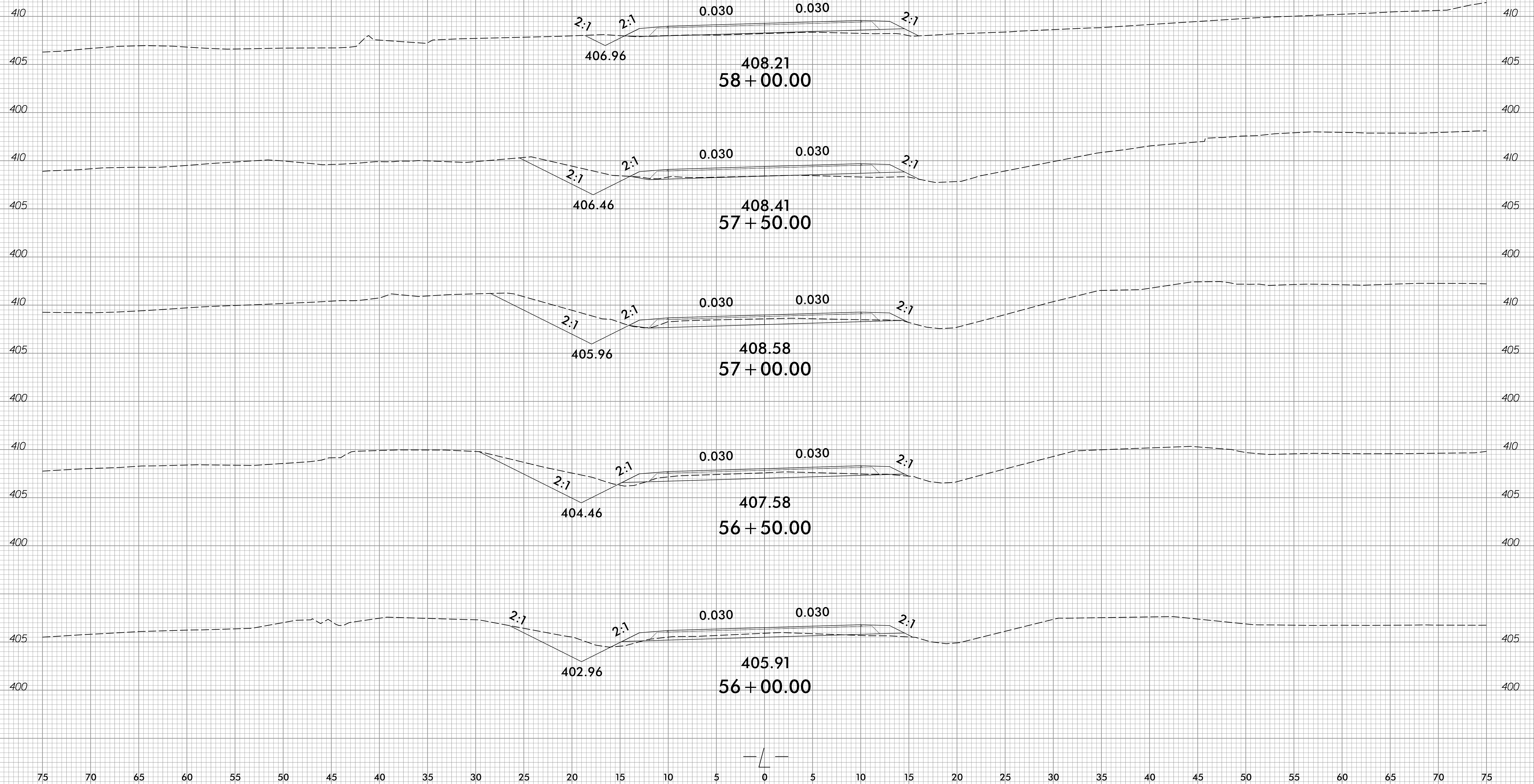
07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer.mbr/ljt

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-18

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



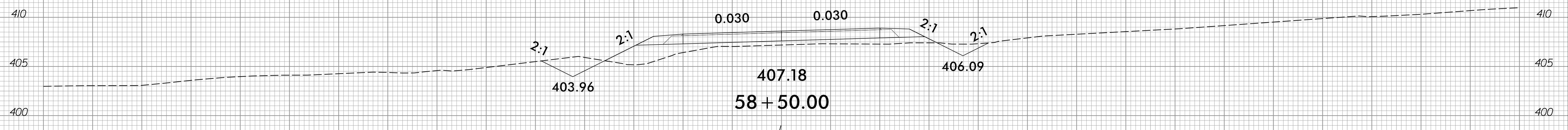
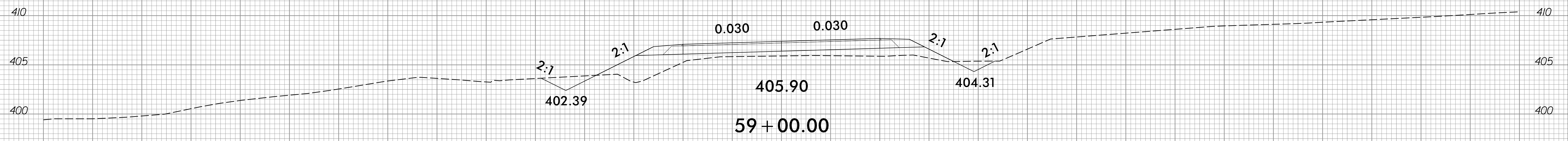
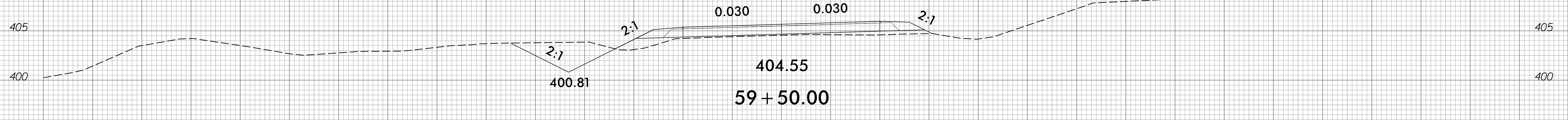
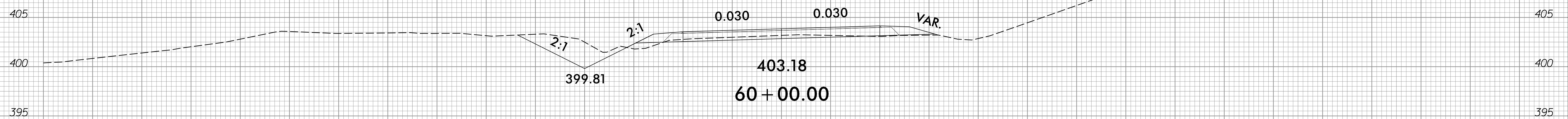
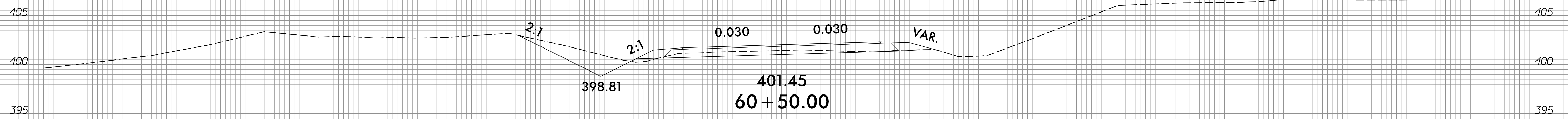
07-JUL-2022 16:54
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-19

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer, Amber LTT

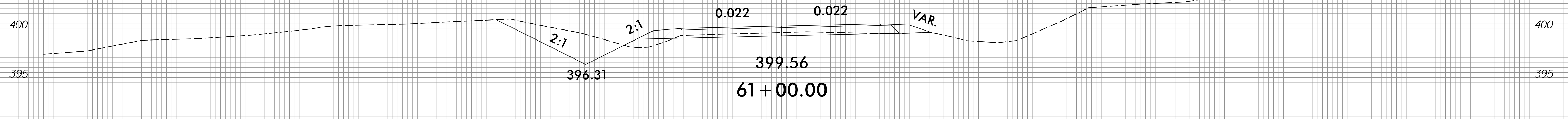
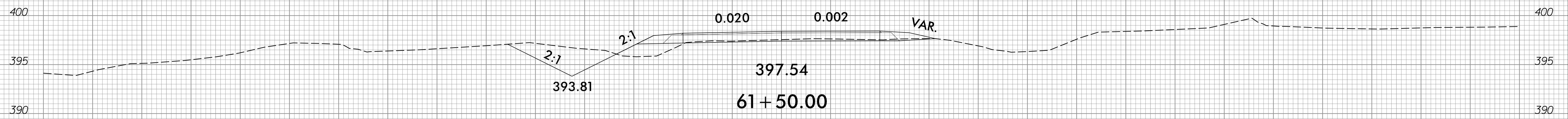
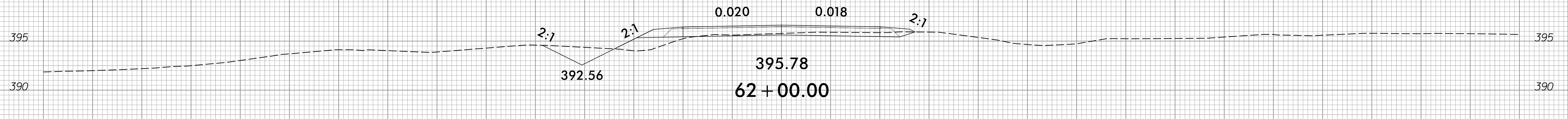
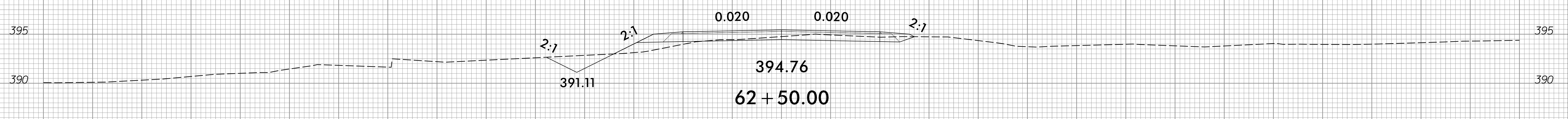
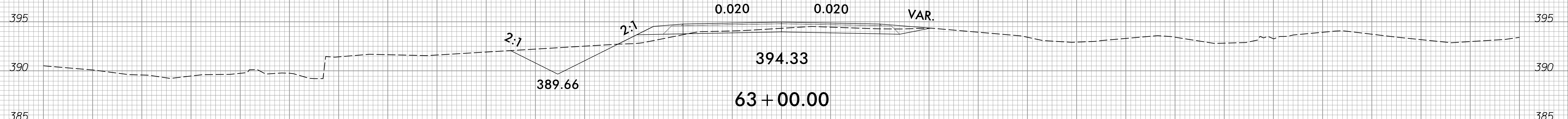
6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-20

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

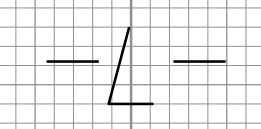
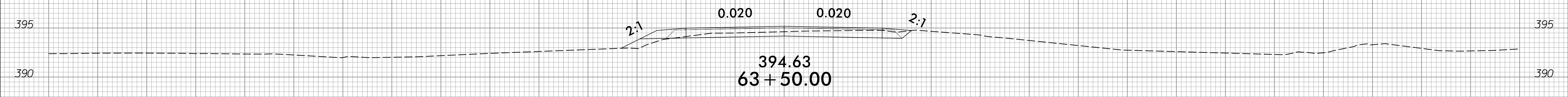
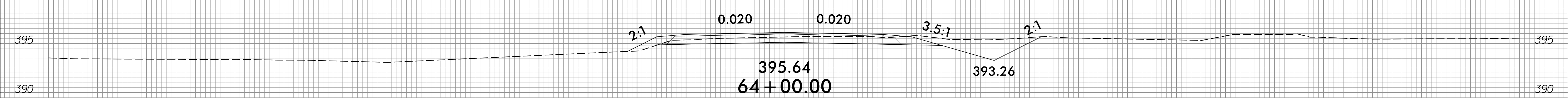
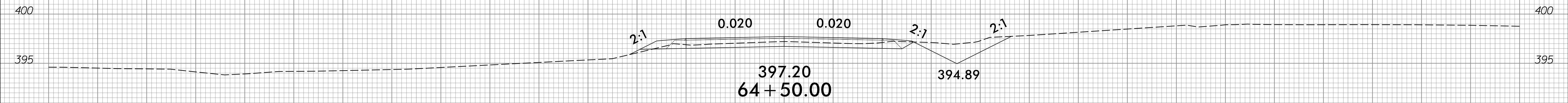
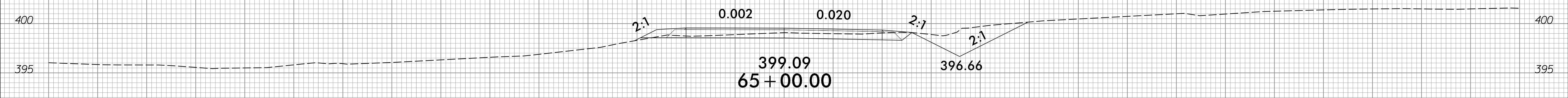
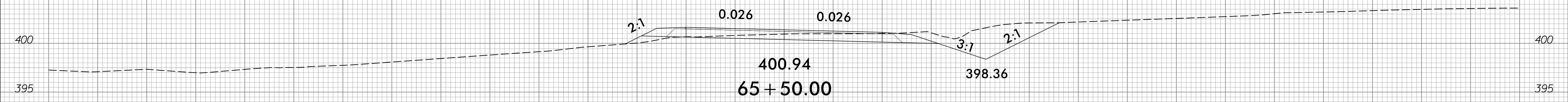


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:54
Conway_Hd_161.dgn
spencer.mbr



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

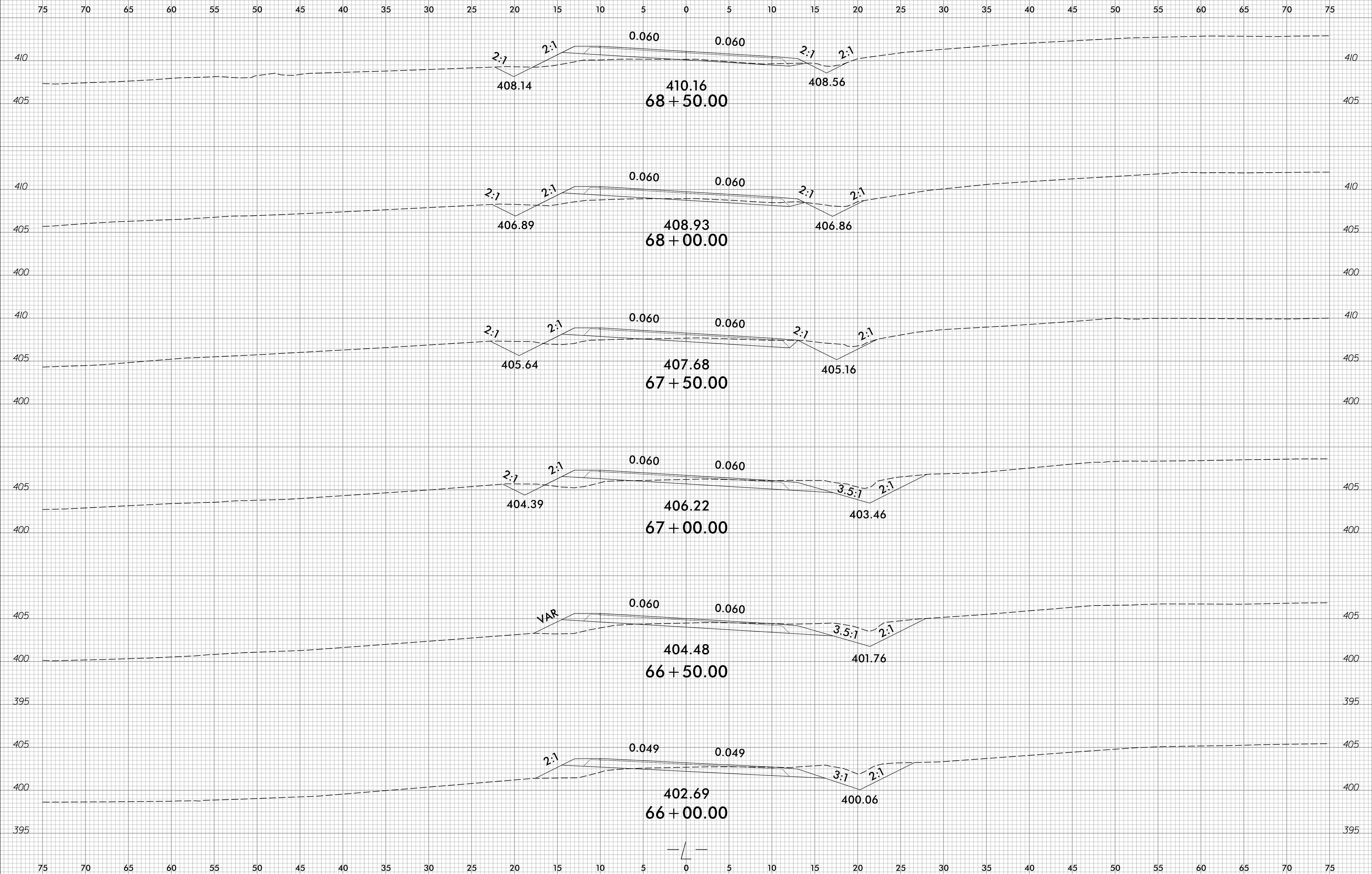


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-22

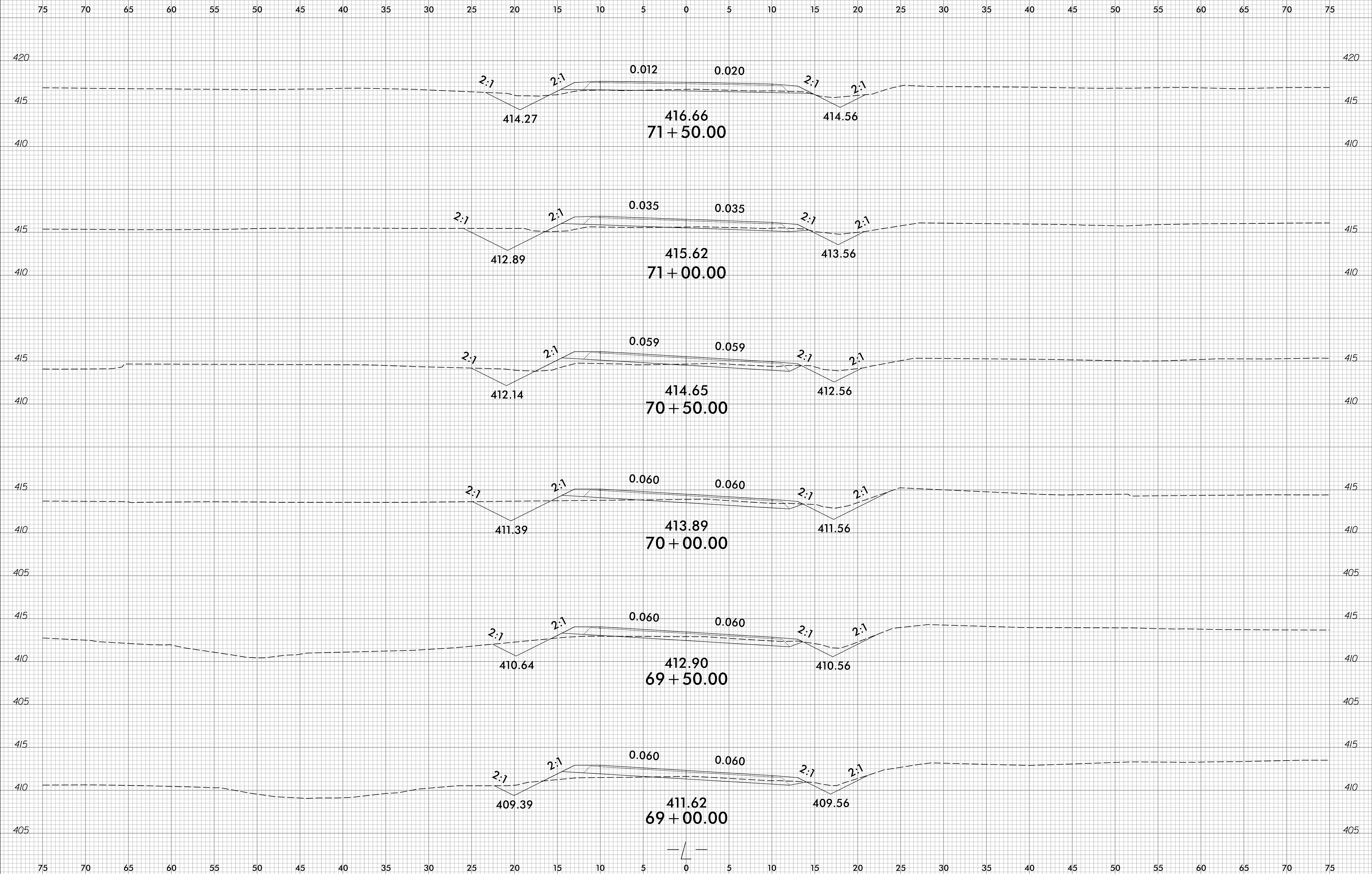


07-JUL-2022 16:54
 Conway_Hdly_xpl.dgn
 Spencer.mbr/ljt

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-23



07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
SPENCER.MB.FLT

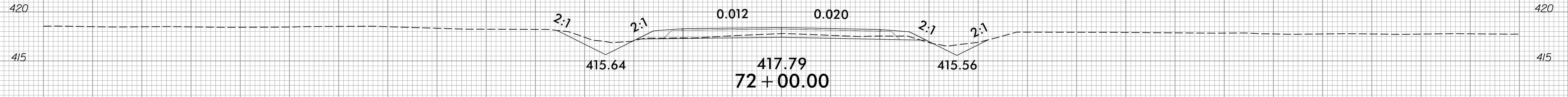
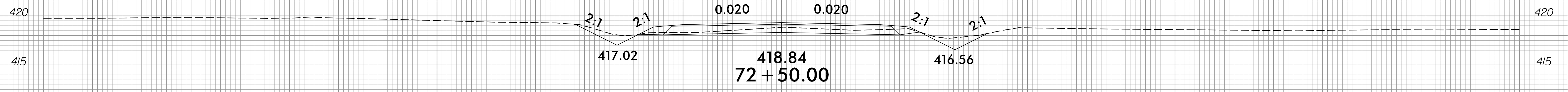
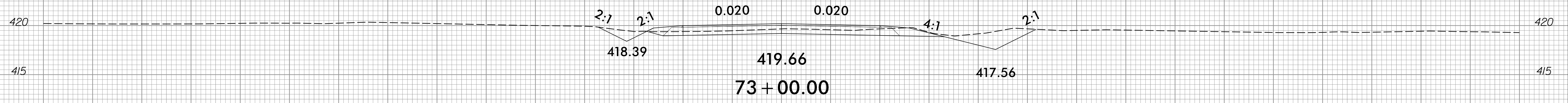
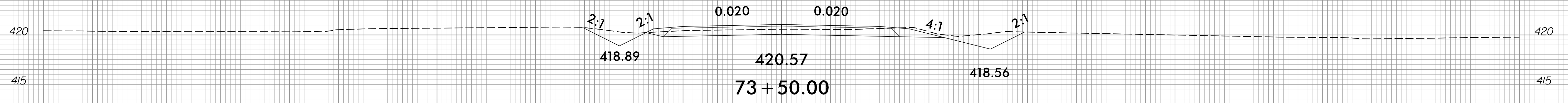
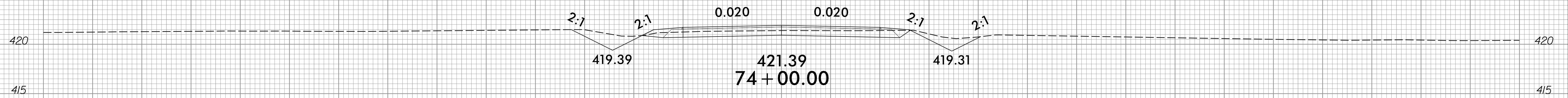
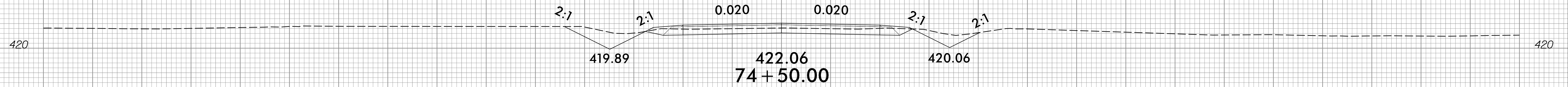
6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-24

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer.mbr 1:1

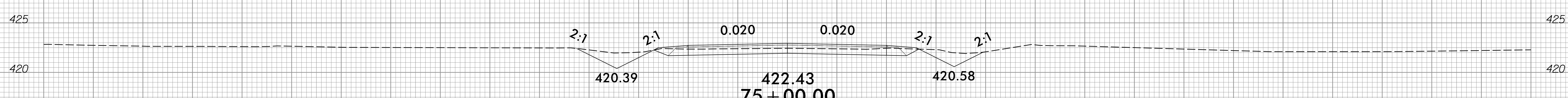
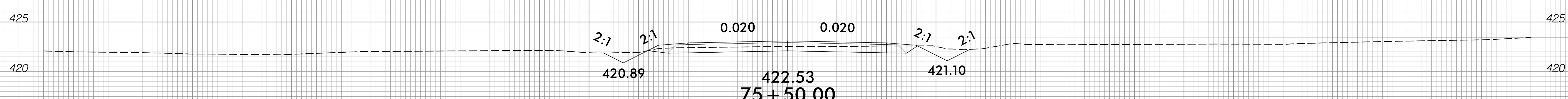
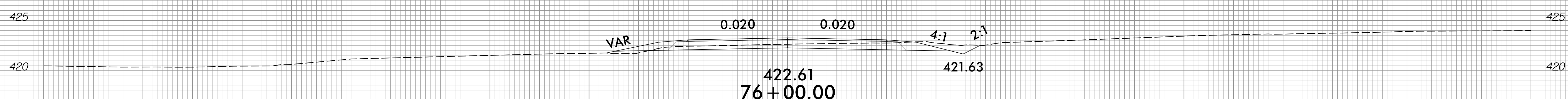
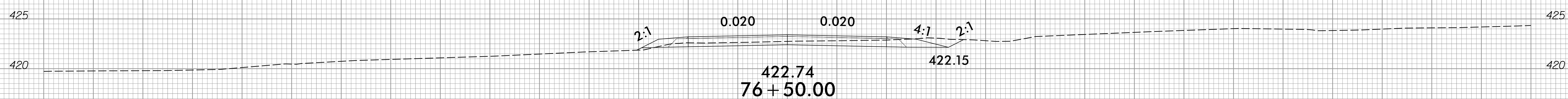
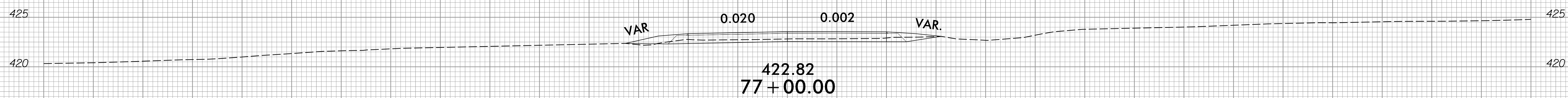
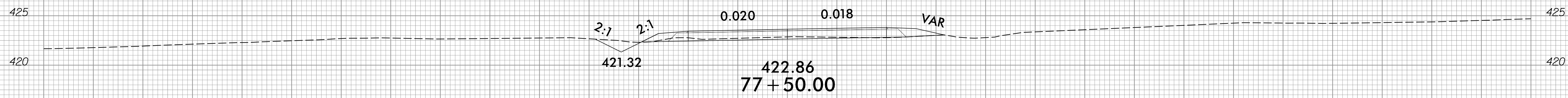
6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-25

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



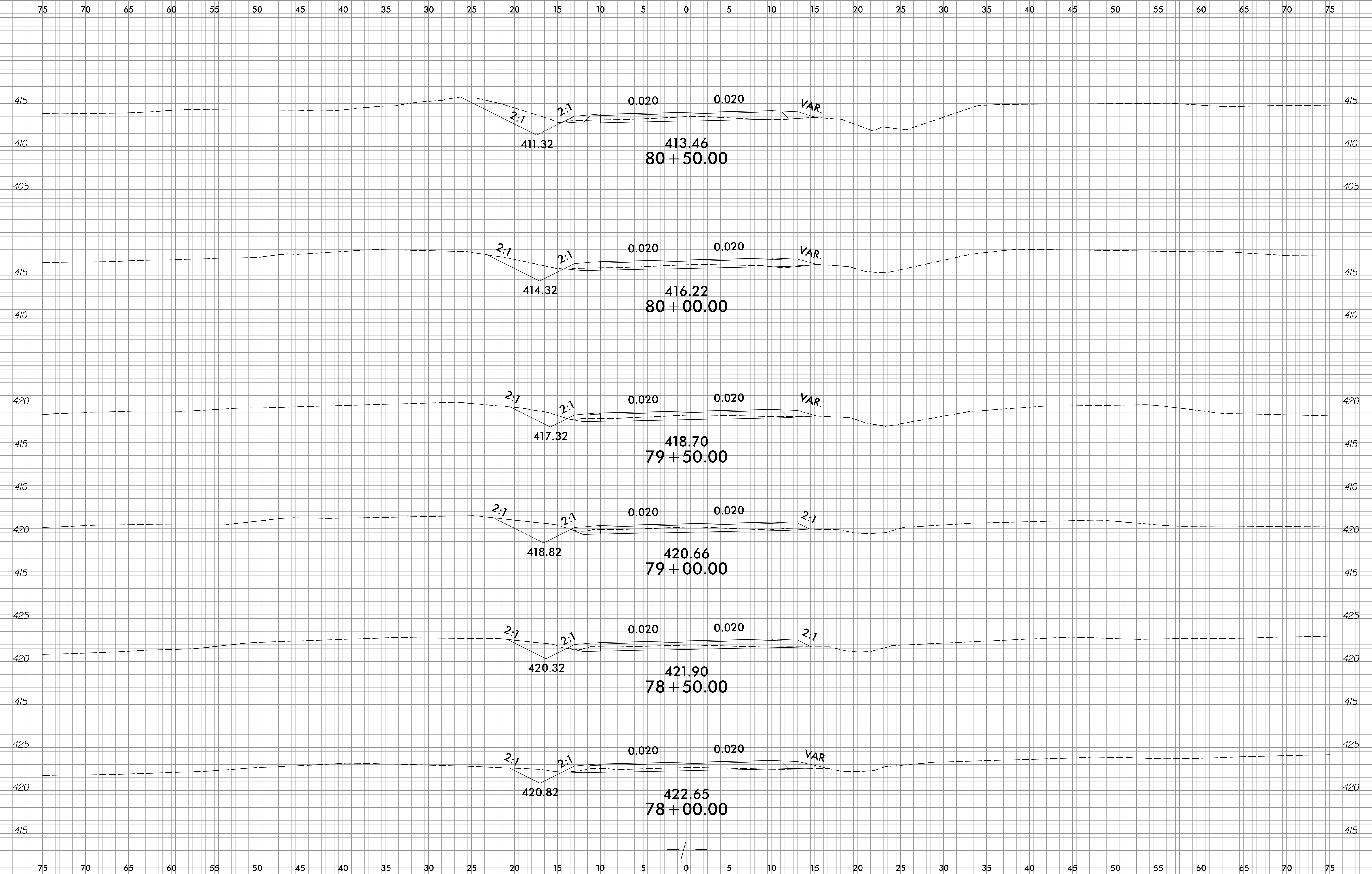
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:54
Conway_Hd_1_xpl.dgn
Spencer, Amber L

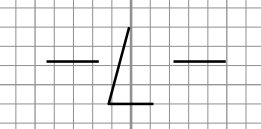
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-26



07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
Spencer, Amber LTT

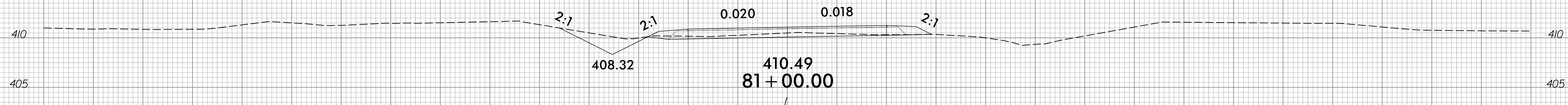
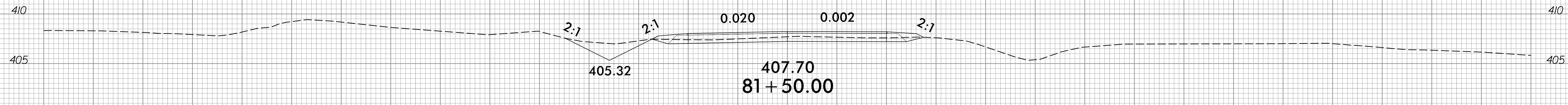
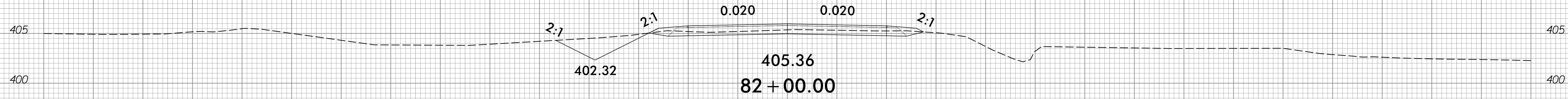
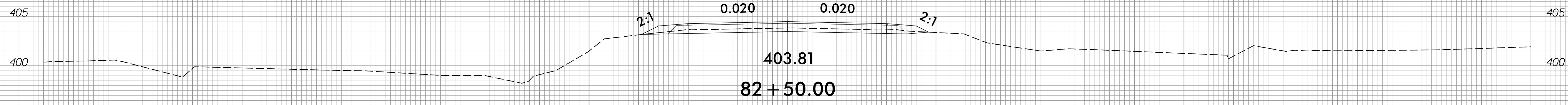
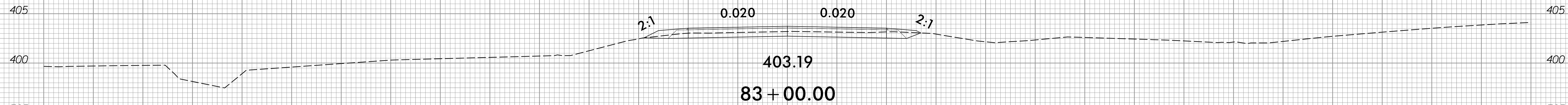
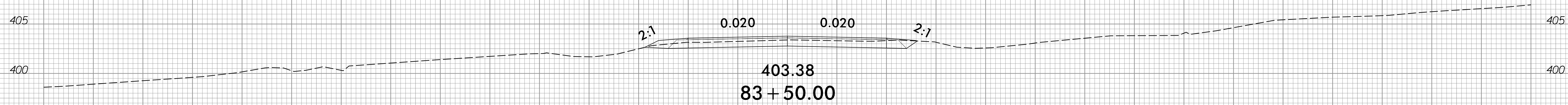


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-27

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:54
Conway_Hdly_xpl.dgn
spencer.mbr

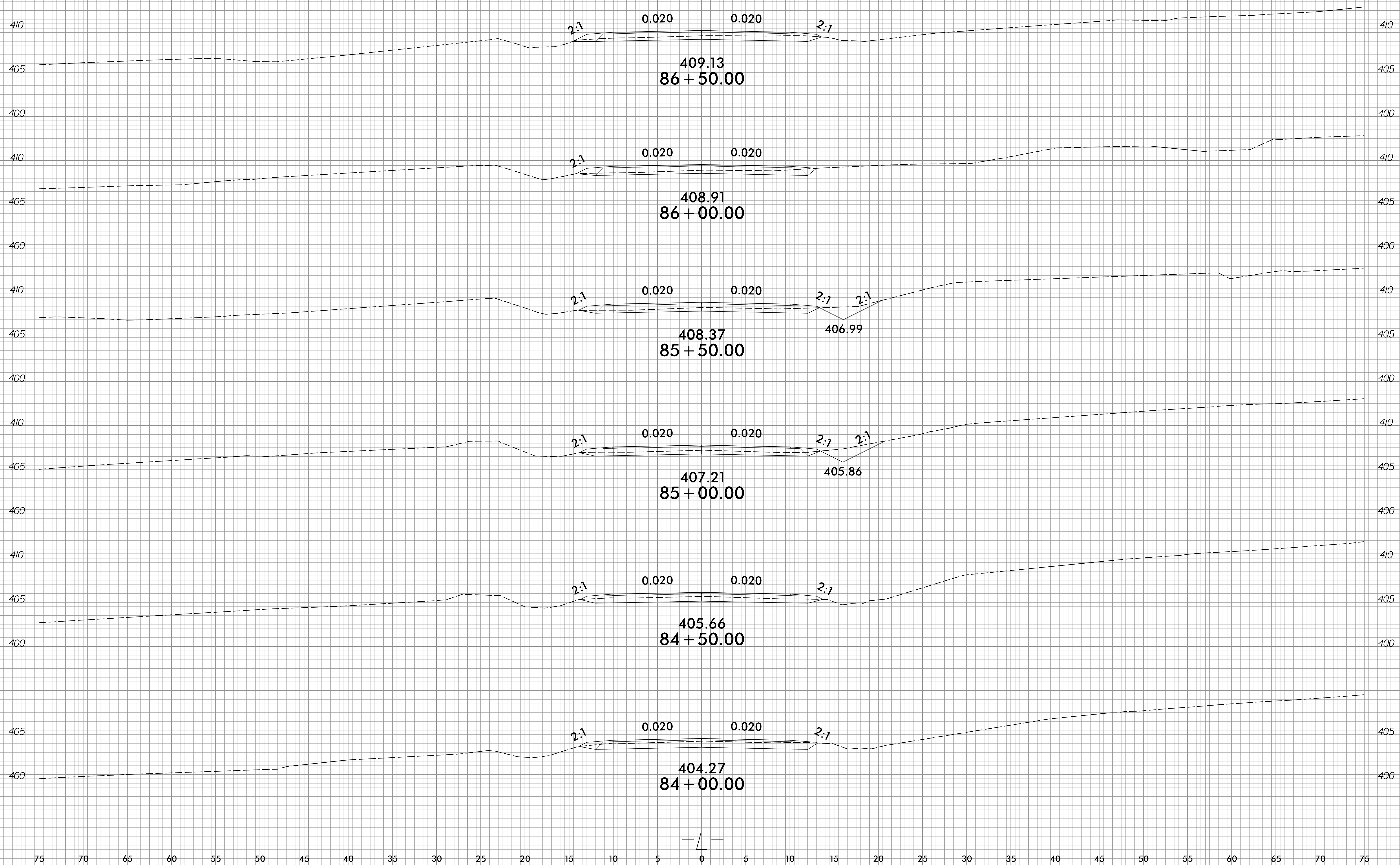
6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-28

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



07-JUL-2022 16:54
Conway_Hd1_xpl.dgn
Spencer.mbr

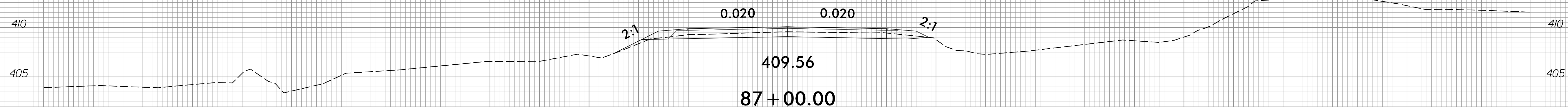
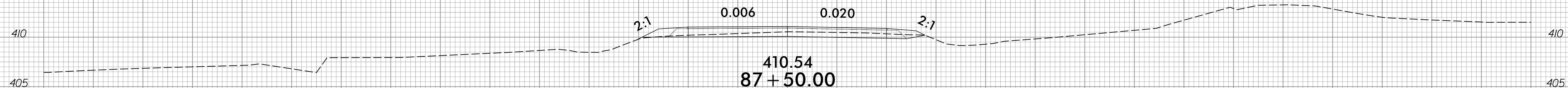
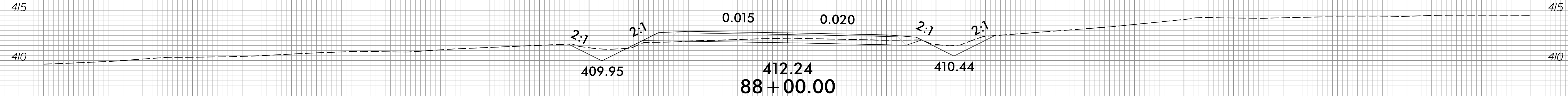
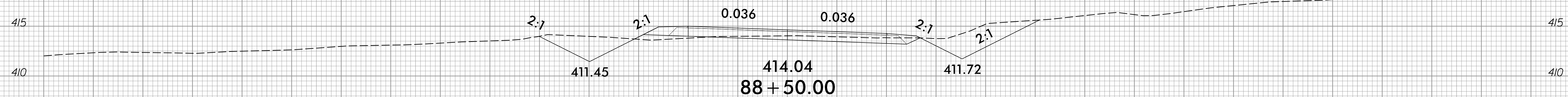
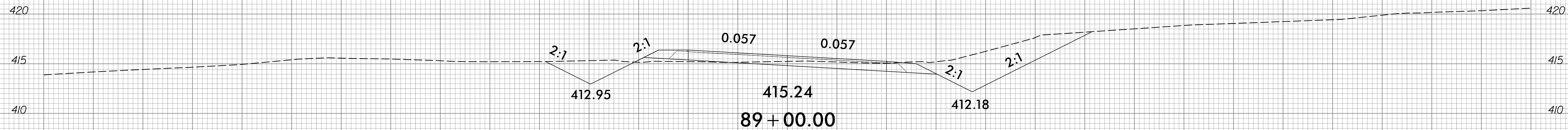
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-29

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer.mbr 1:1

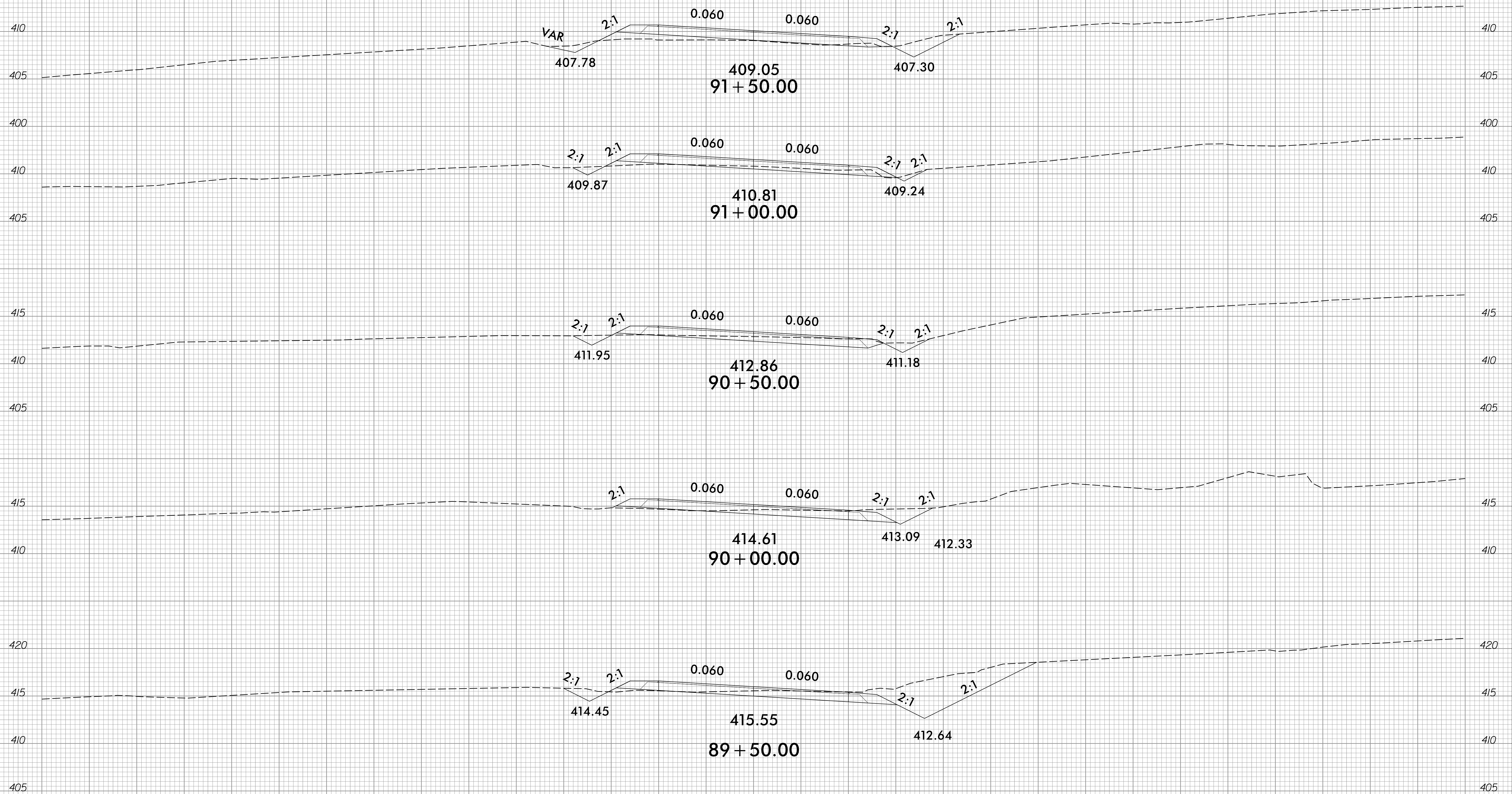
6/23/16



PROJ. REFERENCE NO.
5C.039062

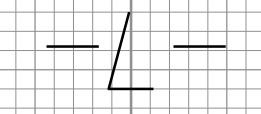
SHEET NO.
X-30

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer, Amber LTT

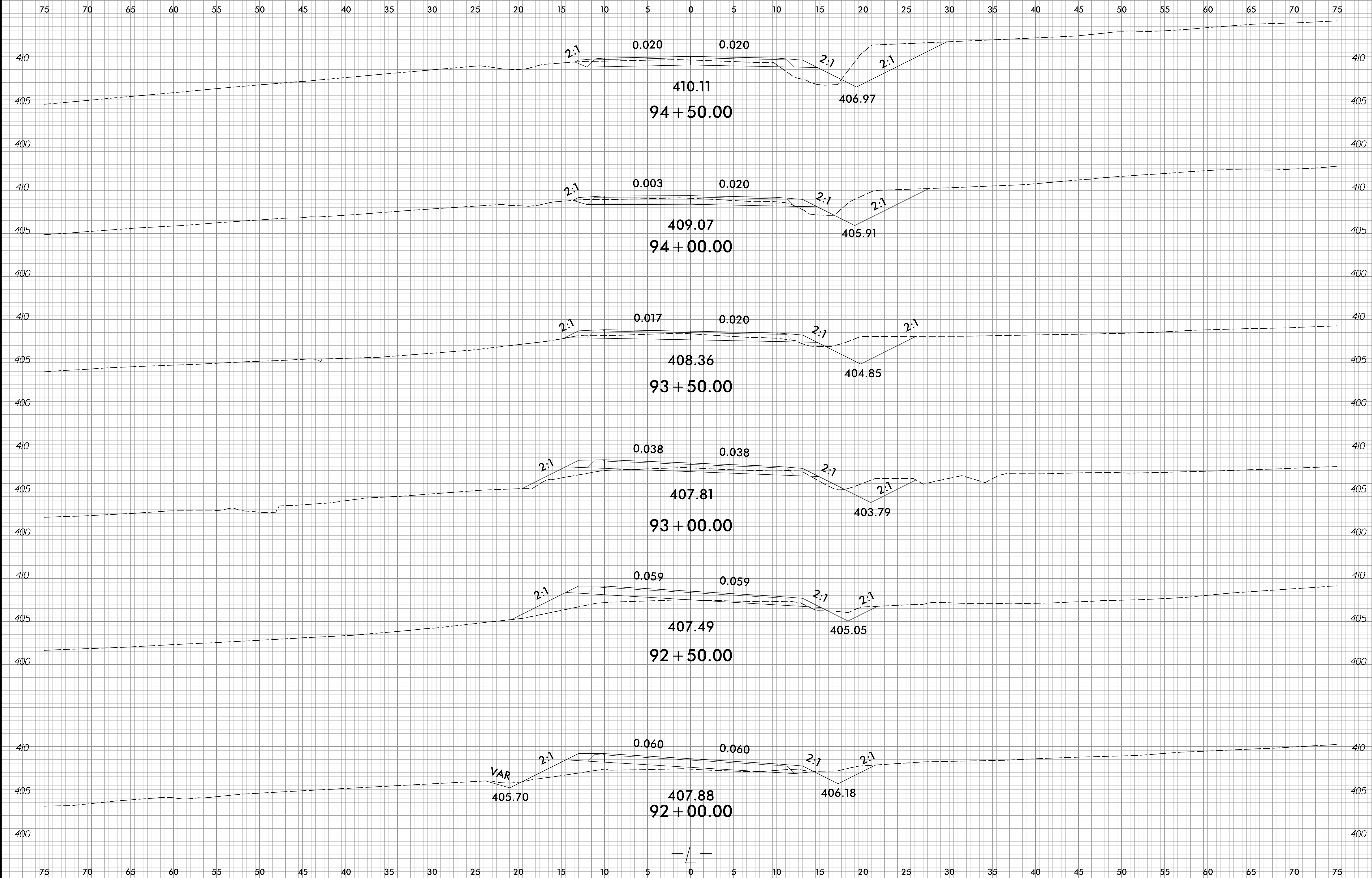


6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-31



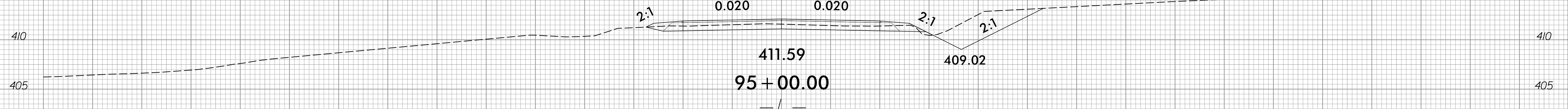
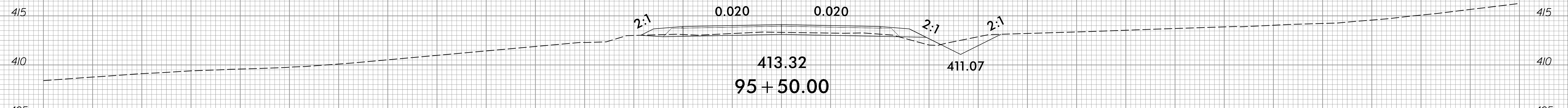
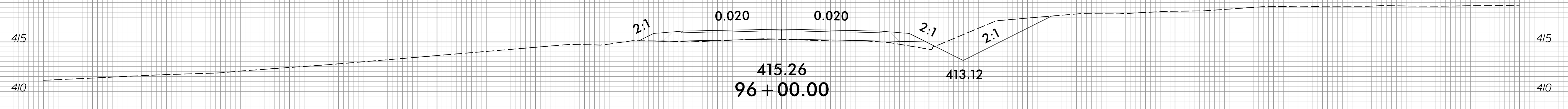
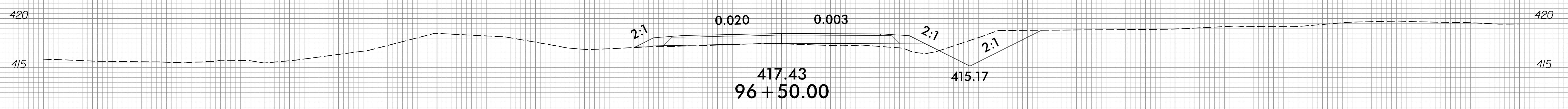
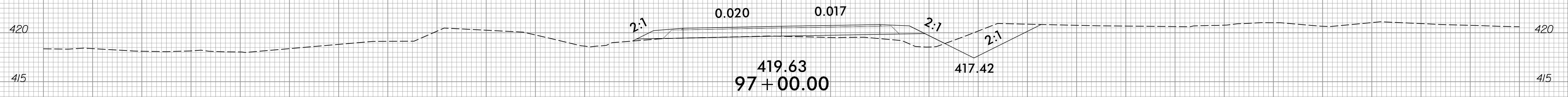
07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
spencer.mbr

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-32

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

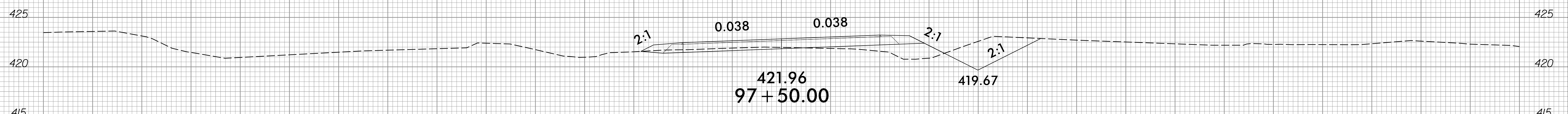
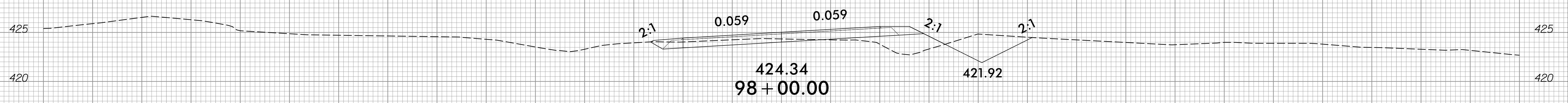
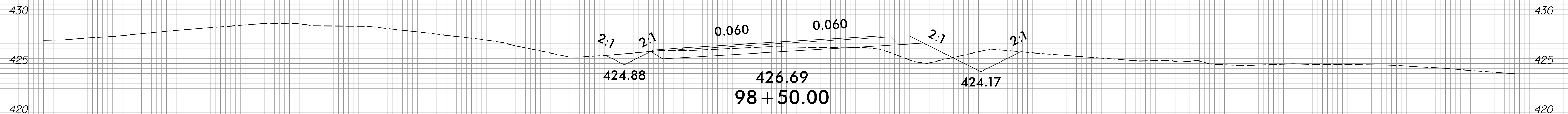
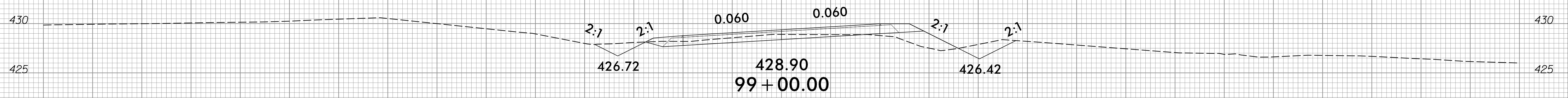
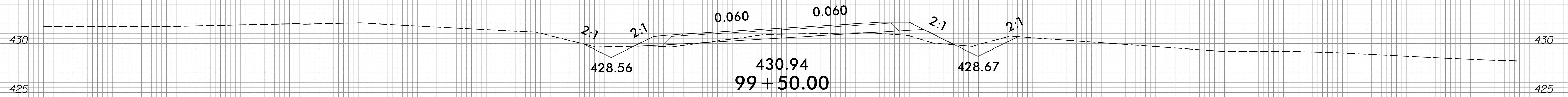
07-JUL-2022 16:55
Conway_Hd_1_xpl.dgn
Spencer, Amber LTT

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-33

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



07-JUL-2022 16:55
Conway_Hdr_xpl.dgn
Spencer.mbr 1:1

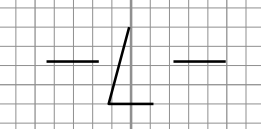
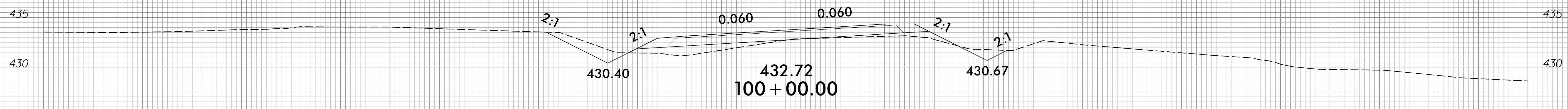
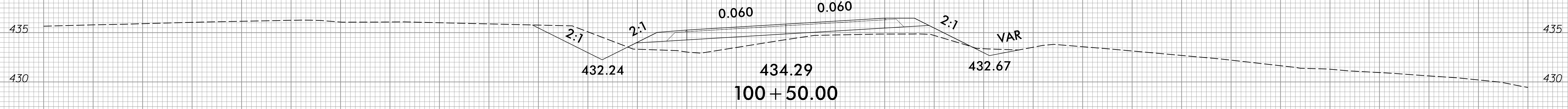
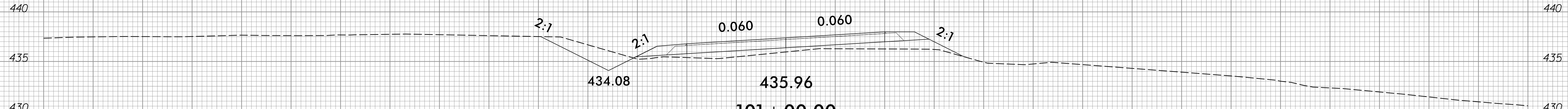
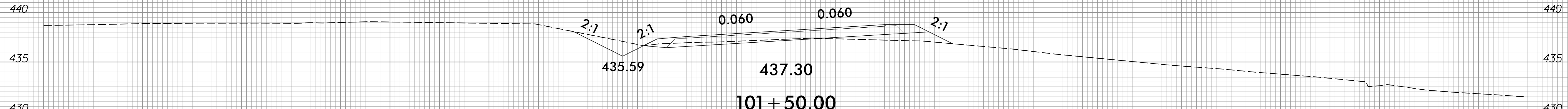
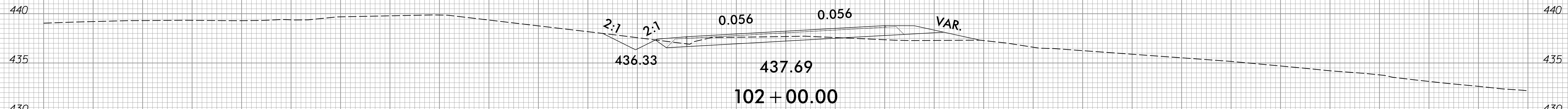
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-34

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



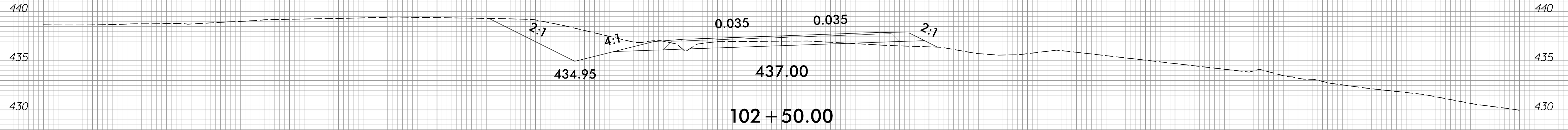
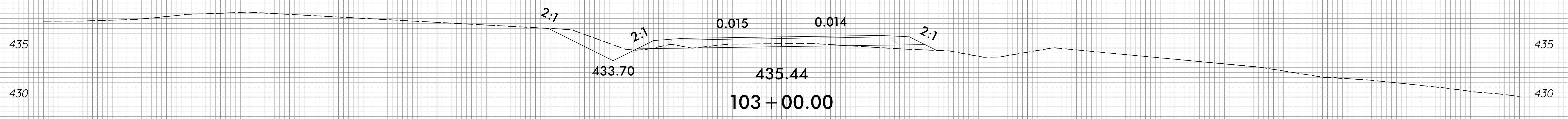
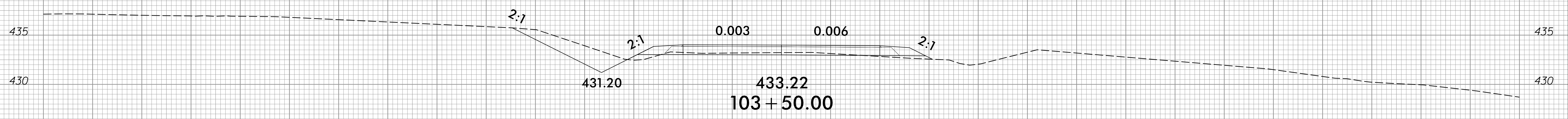
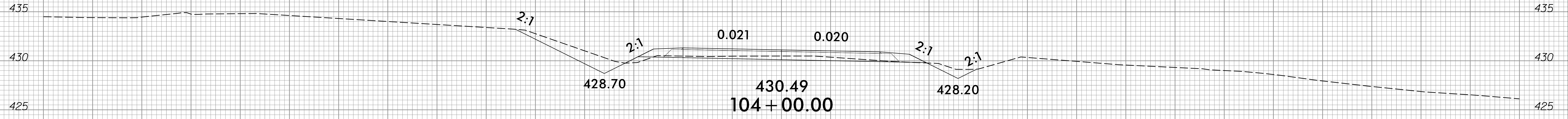
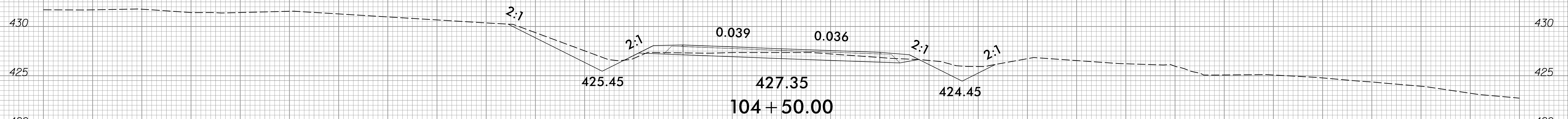
07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-35

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

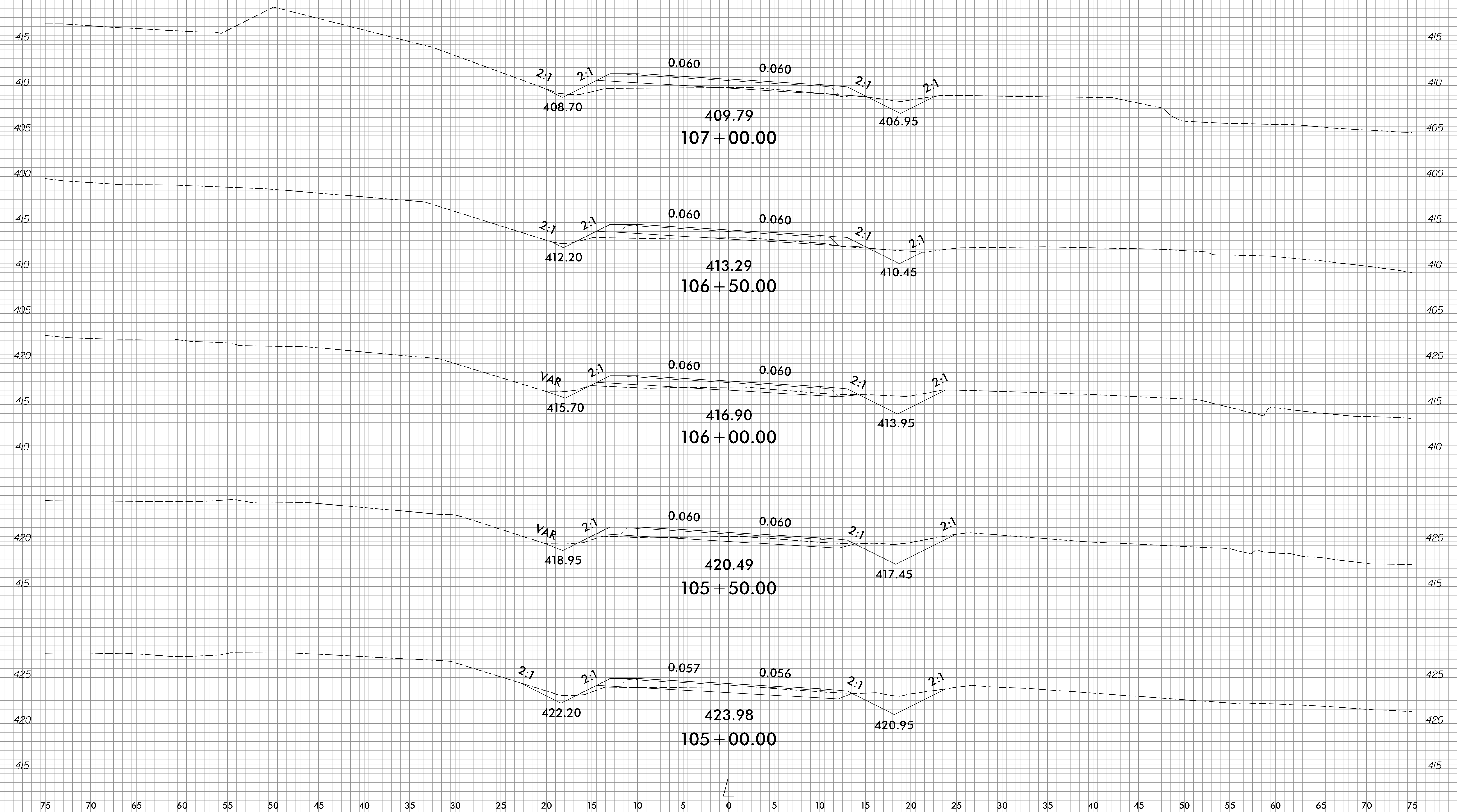
07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer, Amber LTT

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-36

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



07-JUL-2022 16:55
 Conway_Hdr_xpl.dgn
 Spencer.mbr 1:1

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

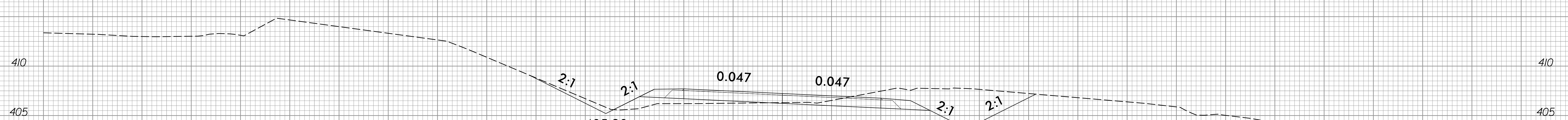
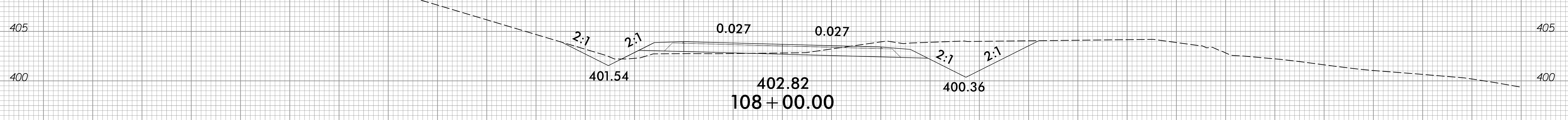
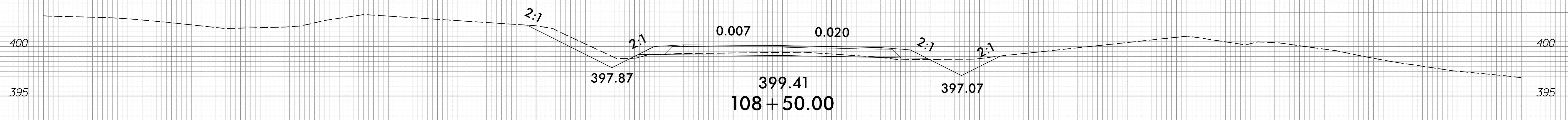
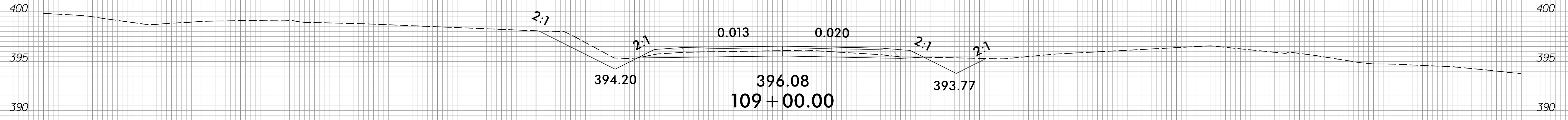
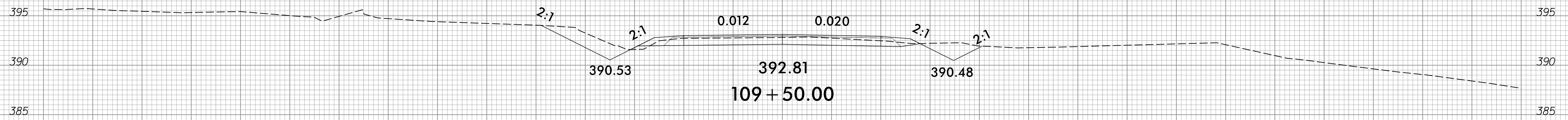
6/23/16



PROJ. REFERENCE NO.
5C.039062

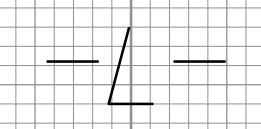
SHEET NO.
X-37

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer.mbr 1:1

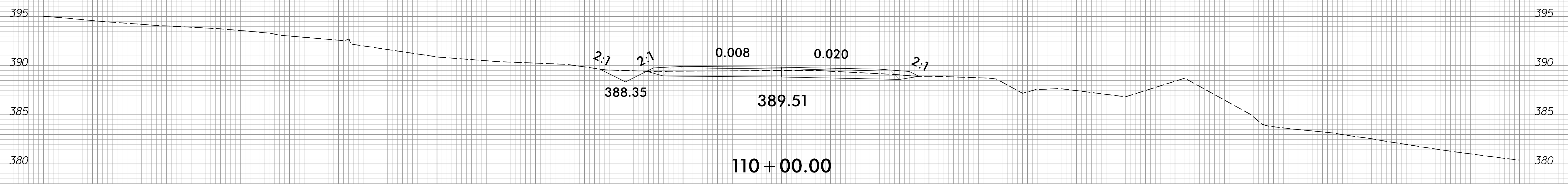
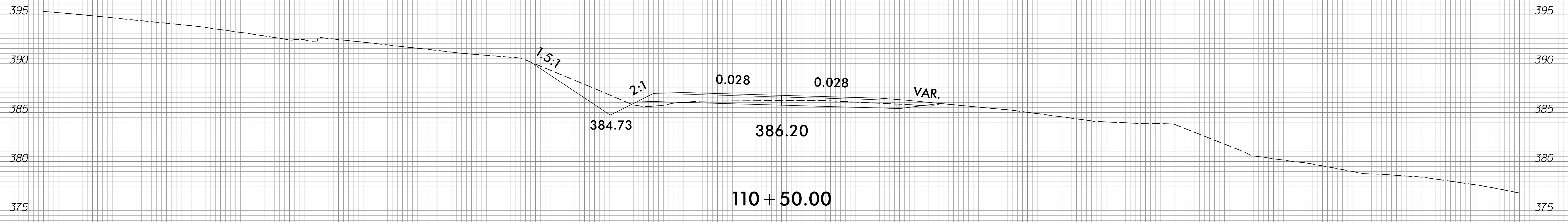


6/23/16



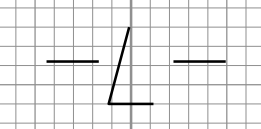
PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-38

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1

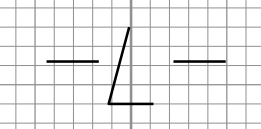
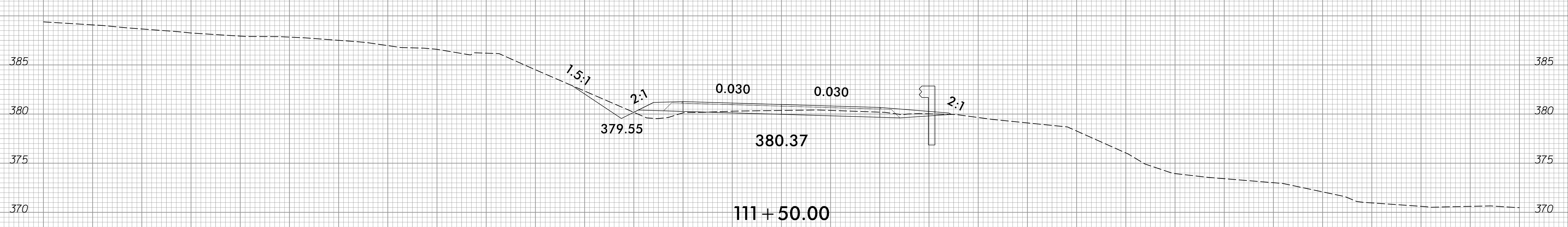
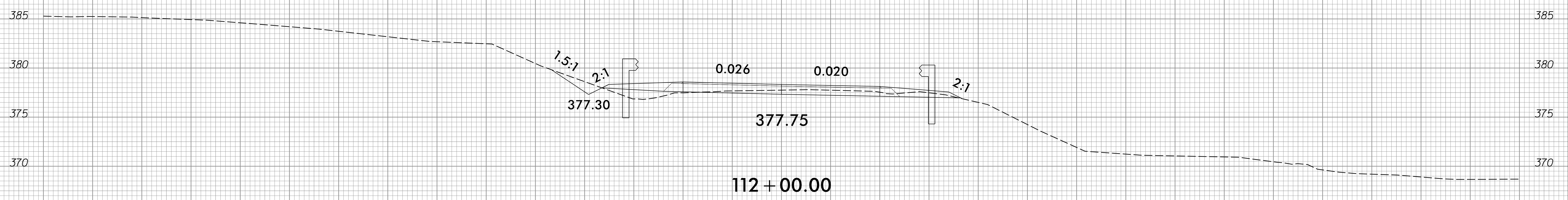
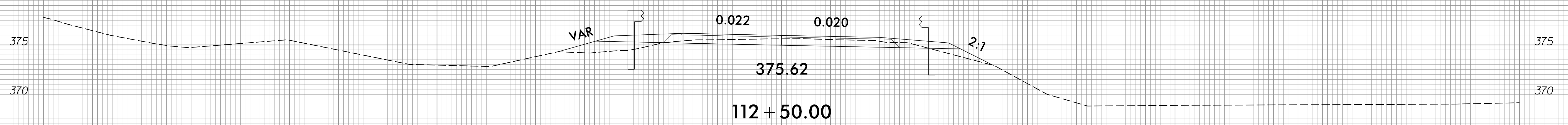
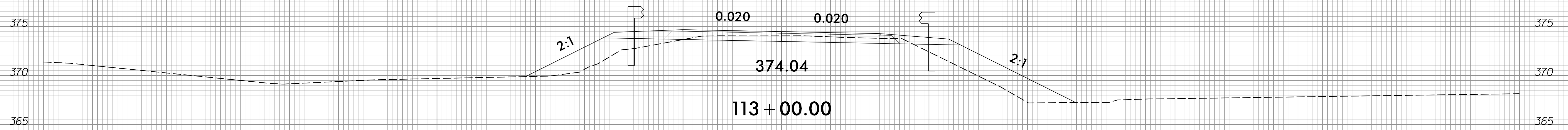


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-39

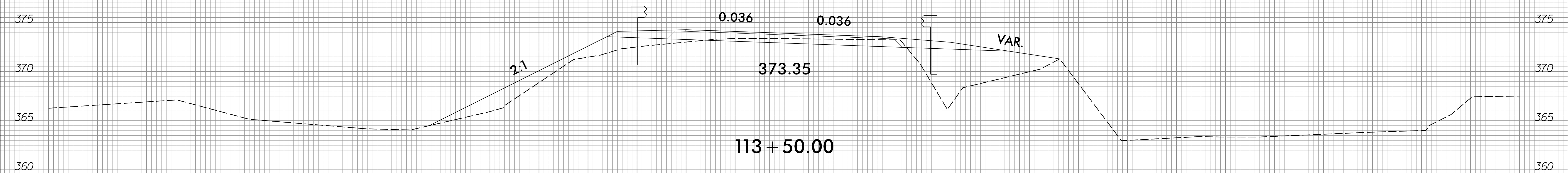
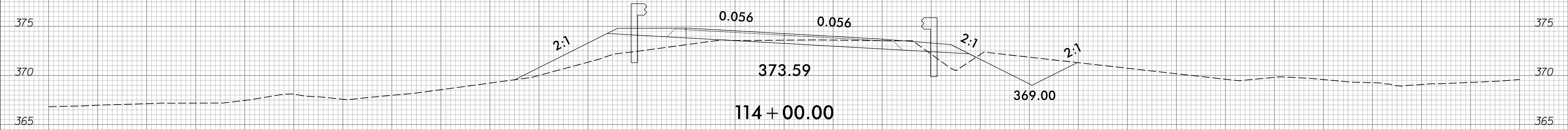
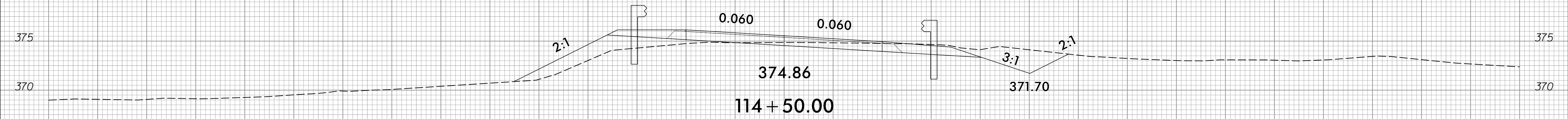
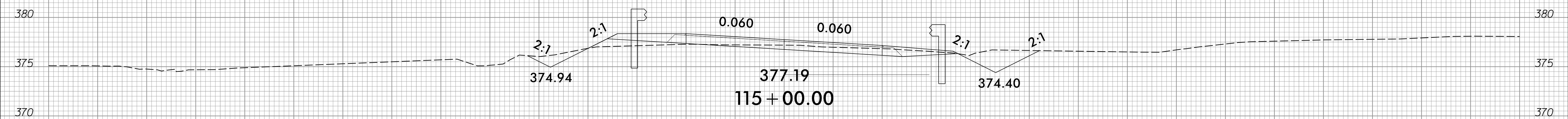
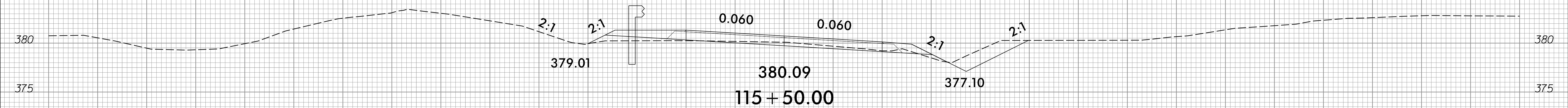
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer, Amber LTT



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



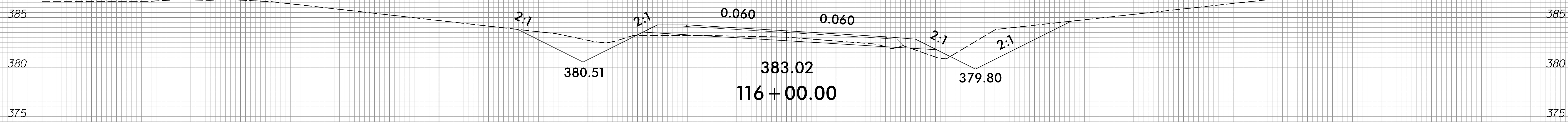
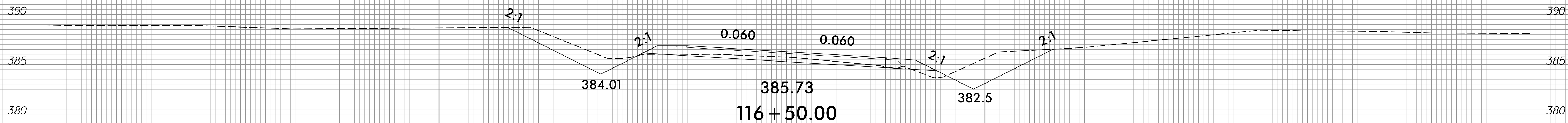
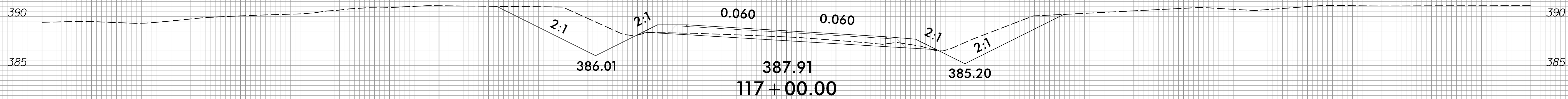
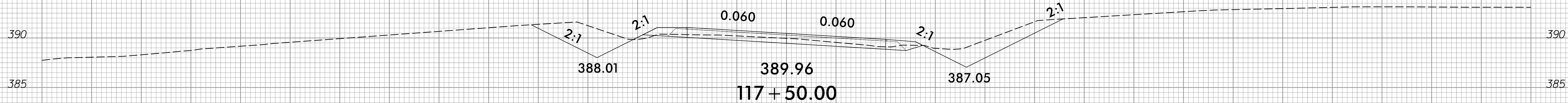
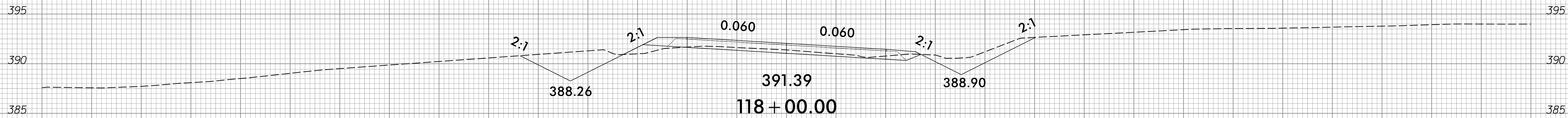
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-41

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



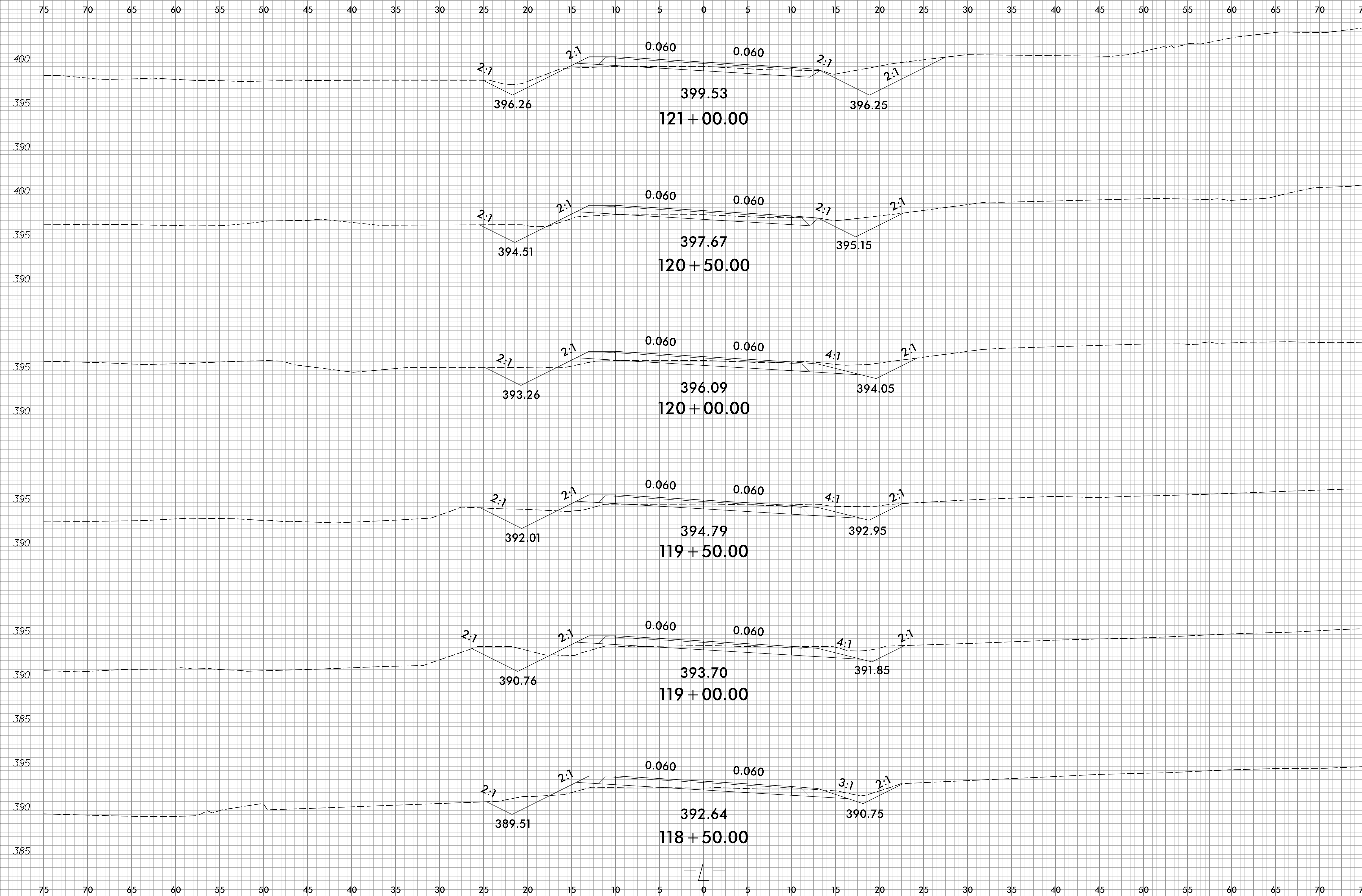
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-42



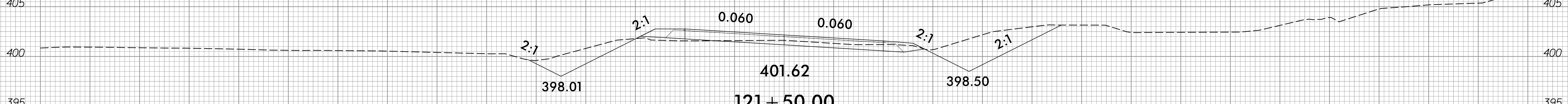
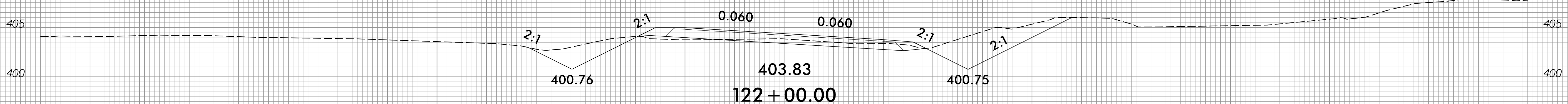
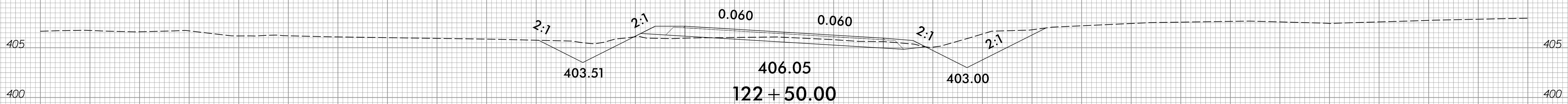
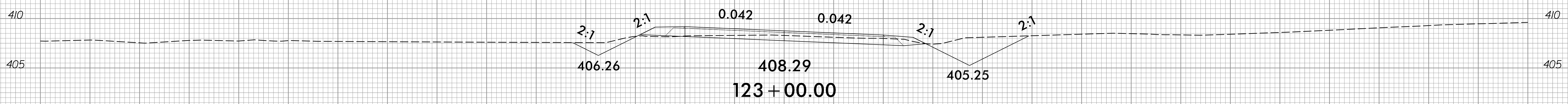
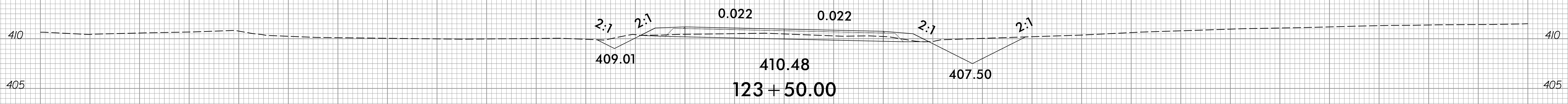
07-JUL-2022 16:55
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-43

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1

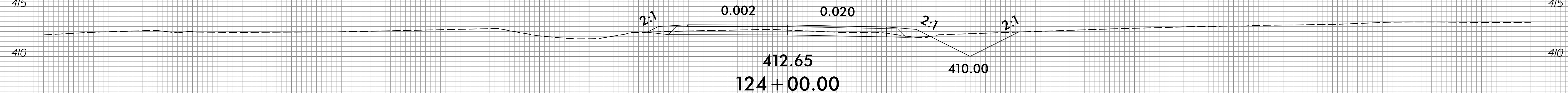
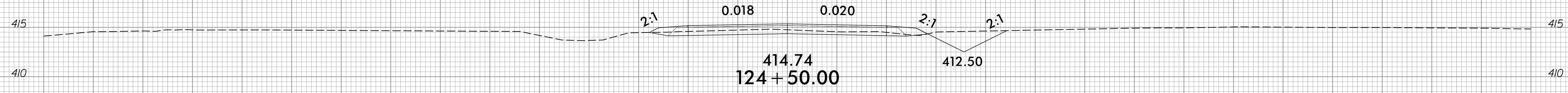
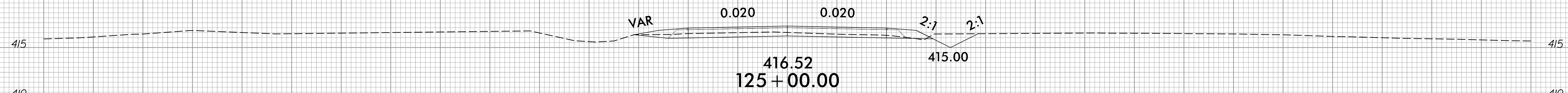
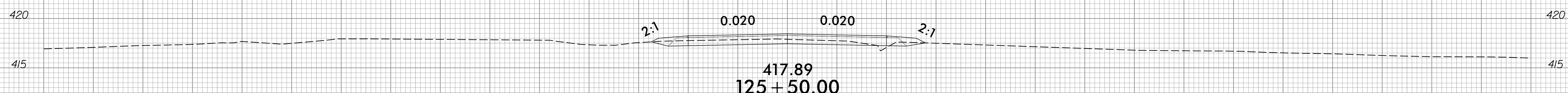
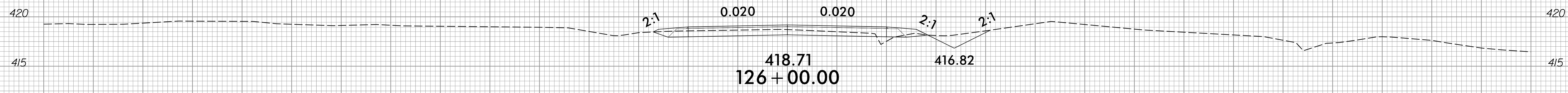
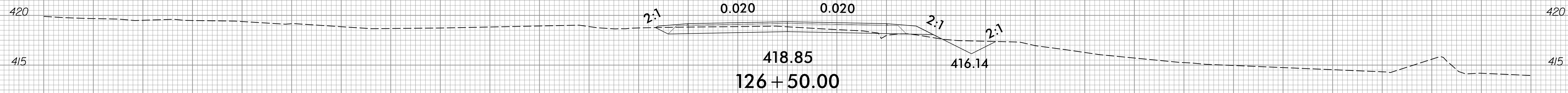
6/23/16



PROJ. REFERENCE NO.
5C.039062

SHEET NO.
X-44

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

07-JUL-2022 16:55
Conway_Hdly_xpl.dgn
Spencer.mbr 1:1

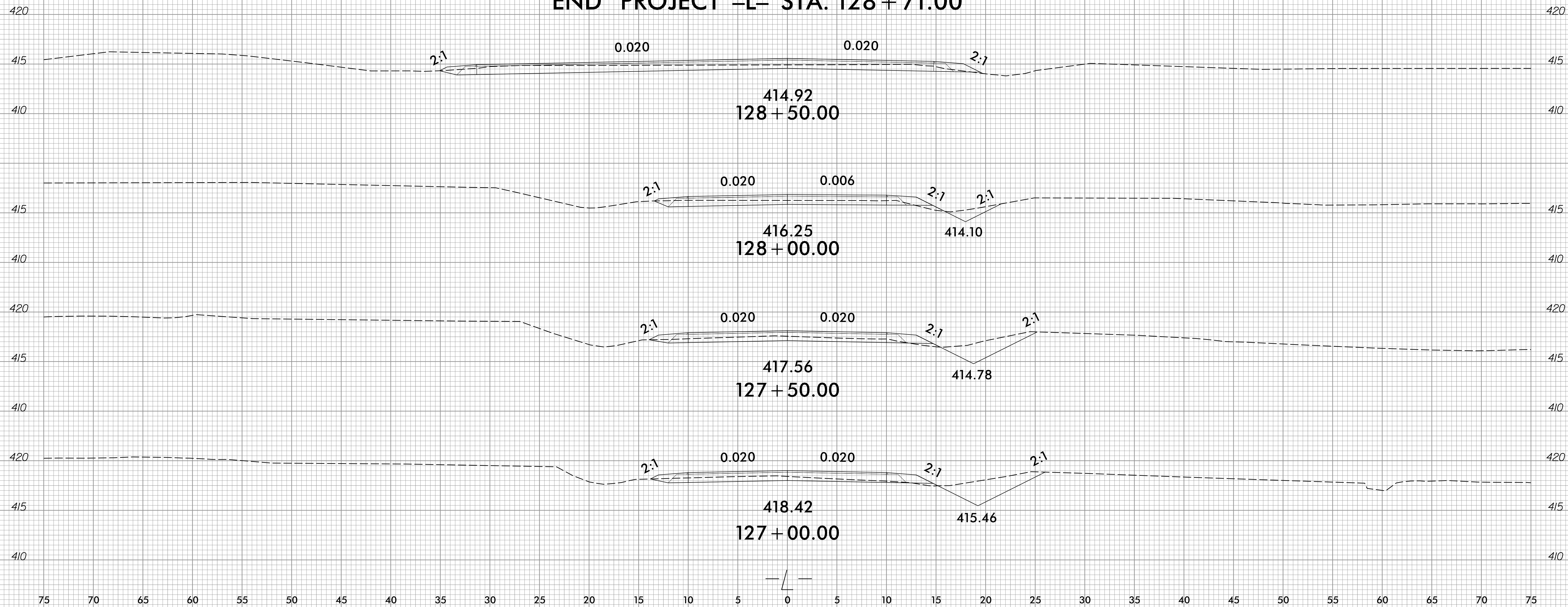
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
5C.039062	X-45

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

END PROJECT -L- STA. 128 + 71.00



07-JUL-2022 16:55
 Conway_Hdly_xpl.dgn
 Spencer.mbr 1:1