PLYMOUTH Co. PCC PAVEMENT - GRADE AND REPLACE NHSX-075-2(99)--3H-75

LETTING DATE 10/18/22

INDEX OF SHEETS

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* RR.1	Erosion Control Legend Sheet
* RR.2 - 47	Erosion Control Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

PLYMOUTH COUNTY

PCC PAVEMENT - GRADE AND REPLACE

N of Maple St in Hinton to 0.1 mi S of 2nd St in Merrill (NB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

IOWA ONE CALL 1-800-292-8989 www.iowaonecall.com 811 Know what's below. Call before you dig.

REVISIONS

TOTAL	458
PROJECT IDENTIFICATION NUMBER	16-75-075-030
PROJECT NUMBER	NHSX-075-2(99)--3H-75
R.O.W. PROJECT NUMBER	NHSN-075-2(102)--3H-75

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W Sheets	**Mainline Cross Sections**
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W.196 - 225	US75 SB
X Sheets	**Side Road Cross Sections**
X.1 - 2	Jasmin Rd Cross Sections

* Color Plan Sheets

Preliminary 06-28-2022

DESIGN DATA RURAL

2019	AADT	13,900	V.P.D.
2039	AADT	18,700	V.P.D.
2039	DHV	1,930	V.P.H.
TRUCKS		18	%
Total Design ESALs		--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	Jason R. Strum	Primary Signature Block
CD.1	--	Hydraulic Design
CS.1	Mark A. Dell	Geotechnical Design
N.1	Zachary K. Abrams	Signing Design

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER Jason R. Strum 16333 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

[redacted] XX-XX-XXXX

Signature Date

Jason R. Strum

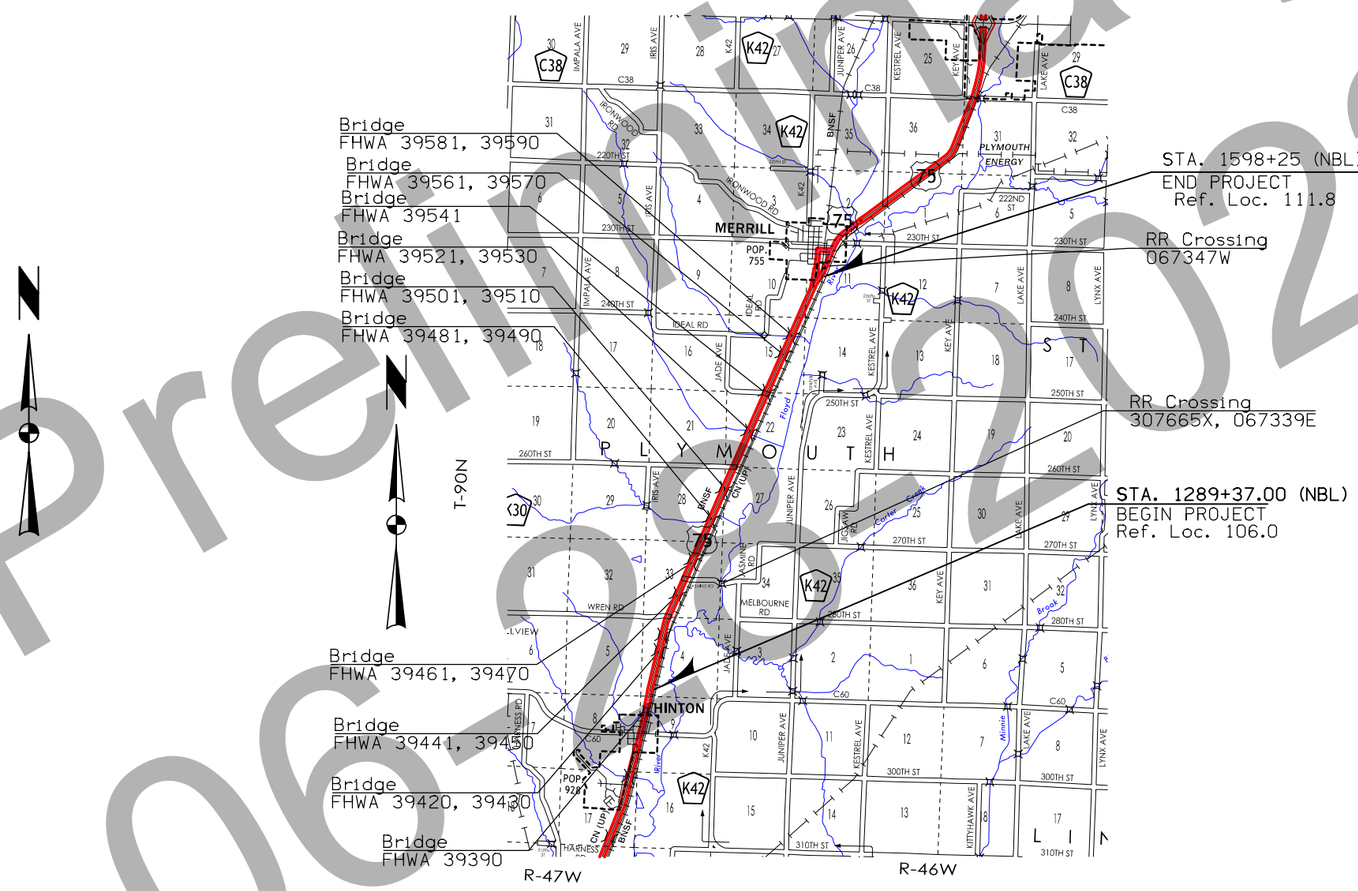
Printed or Typed Name

My license renewal date is December 31, 2023

Pages or sheets covered by this seal: A.1-A.2, B.1-B.8, C.1-C.19, D.1-D.14, E.01, G.1-G.4, H.1-H.12, J.1-J.6, L.1-L.8, RC.1-RC.9, RR.1-RR.47, T.1-T.16, U.1-U.16, W.1-W.225, X.1-X.2

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER A.1

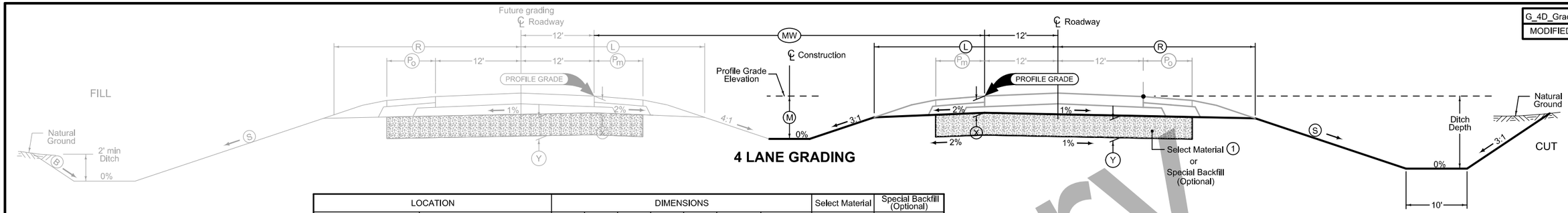
Preliminary
06-28-2022



FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER A.2

2:57:55 PM 6/28/2022 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7507503016\Design\(99)Grade_Pave\CADD_Files\Sheet_files\SHT_75075099A01.dgn

G_4D_Grade
MODIFIED



4 LANE GRADING

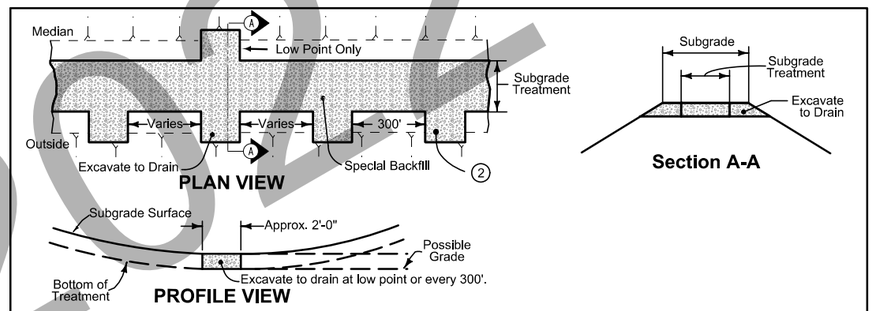
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.

1 Quantity calculations based on Select Soil.
Compaction with Moisture Control for Select Soil is required. Maintain moisture content within limits specified in Article 2107.03,H,1 of the Standard Specifications.

2 Excavate a portion of subgrade as necessary to provide drainage for the treatment. The additional excavation and Special Backfill for outlets is incidental and will not be paid for separately.

LOCATION			DIMENSIONS							Select Material	Special Backfill (Optional)
ROAD IDENTIFICATION	STATION TO STATION		L Feet	R Feet	X Inches	MW Feet	M Feet	S	B	Y Feet	Y Feet
U.S. 75 (NBL)	1289+87.00	1335+50.00	21.9	25.9	16.0	Vari.	Vari.	3:1		2	1
U.S. 75 (NBL)	1335+50.00	1596+45.00	21.9	29.8	16.0	Vari.	Vari.	4:1		2	1
U.S. 75 (NBL)	1596+45.00	1596+75.00	-	29.8	16.0	-	-	4:1		2	1



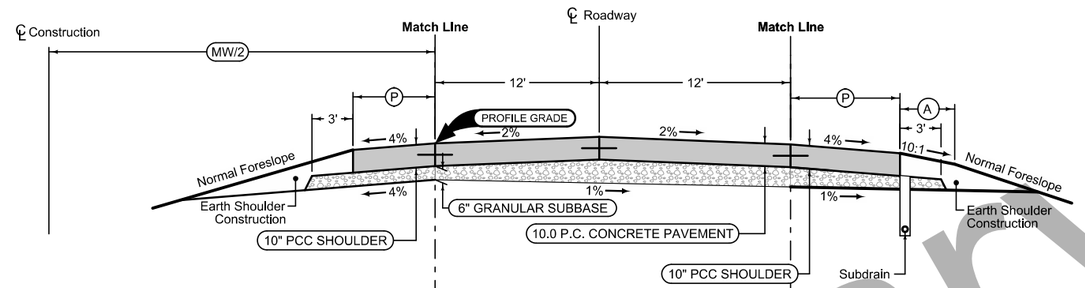
DETAIL 'A' - DRAIN FOR SPECIAL BACKFILL SUBGRADE TREATMENT

Preliminary
06-28-2022

Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 17' spacing

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
NB	1289+87.00	1343+32.89	6
NB	1348+07.89	1399+65.90	6
NB	1404+40.90	1456+65.90	6
NB	1461+40.90	1512+91.90	6
NB	1517+66.90	1592+81.00	6



Section shown in the direction of traffic.

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

			4DP_ 10-19-10
Direction of Travel	BEGIN STATION	END STATION	(MW) Feet
NB	1289+87.00	1596+75.00	Vari. (25.3 - 63.9)

Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 17' spacing

Direction of Travel	BEGIN STATION	END STATION	(P) Feet	(A) Feet
NB	1289+93.00	1335+50.00	10	0
NB	1335+50.00	1596+75.00	10	4

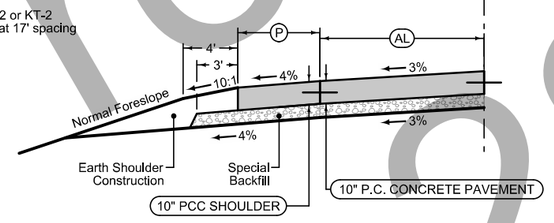
Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

Auxiliary Lane
Full Depth Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 17' spacing

			4_AuxLane_PCC_ 10-19-10	
Direction of Travel	BEGIN STATION	END STATION	(AL) Feet	(P) Feet
NB	1343+32.89	1344+52.89	0-12	6
NB	1344+52.89	1347+47.89	12	6
NB	1347+47.89	1348+07.89	12-0	6
NB	1399+65.90	1400+85.90	0-12	6
NB	1400+85.90	1403+80.90	12	6
NB	1403+80.90	1404+40.90	12-0	6
NB	1456+65.90	1457+85.90	0-12	6
NB	1457+85.90	1460+80.90	12	6
NB	1460+80.90	1461+40.90	12-0	6
NB	1512+91.90	1514+11.90	0-12	6
NB	1514+11.90	1517+06.90	12	6
NB	1517+06.90	1517+66.90	12-0	6
NB	1592+81.00	1594+00.00	0-12	6
NB	1594+00.00	1596+45.00	12	6



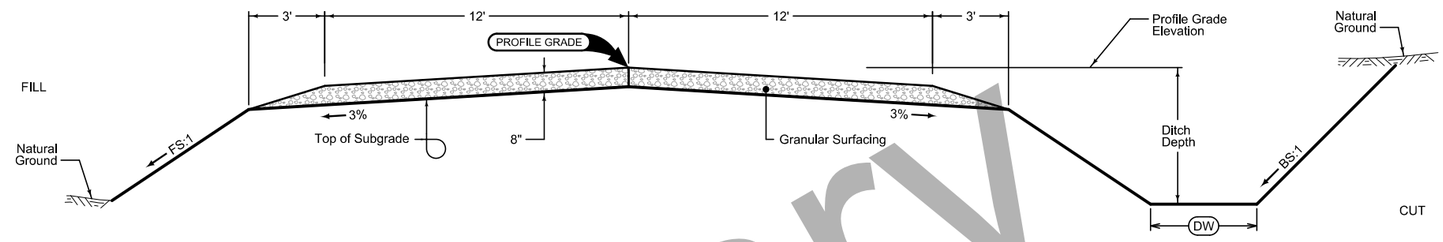
Refer to Tab 100-24 or 100-25 for pavement quantities.
Refer to Tab 112-9 for shoulder quantities.

U.S 75

Preliminary 06-28-2022

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		FS	BS	DW Feet
Jasmine Rd	2375+74.42	2377+16.00	3	UAC	UAC

G_2_GradeGran
10-17-17

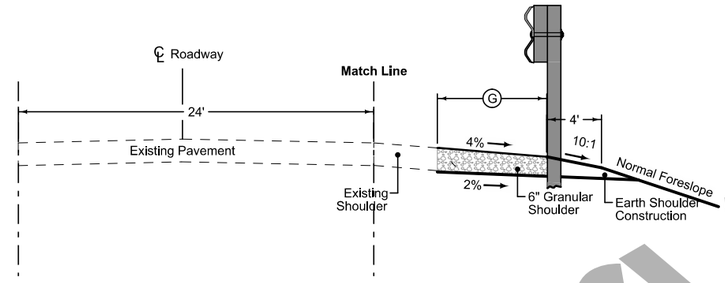


GRADING AND GRANULAR SURFACING

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See plan & profile sheets and cross sections for additional details of ditches and backslopes.

Preliminary
06-28-2022



Granular Shoulder at Guardrail

Direction of Travel	BEGIN STATION	END STATION	G Feet
SB	333+28.70	334+58.54	Vari. (9-0)
SB	336+26.84	338+43.86	Vari. (0-4)
SB	362+97.49	364+26.83	Vari. (7.1-0)
SB	366+13.79	368+12.65	Vari. (0-4.7)
SB	386+74.83	388+10.89	Vari. (8-0)
SB	389+91.19	392+02.49	Vari. (0-4.4)
SB	418+28.82	419+58.93	Vari. (7.4-0)
SB	421+58.21	423+68.98	Vari. (0-5)
SB	441+15.29	442+32.52	Vari. (6-0)
SB	444+44.15	446+03.75	Vari. (0-4)
SB	484+72.84	485+90.45	Vari. (6.3-0)
SB	487+89.20	489+12.93	Vari. (0-7.2)
SB	557+66.95	559+22.17	Vari. (8.2-0)
SB	560+50.68	562+82.11	Vari. (0-4.2)

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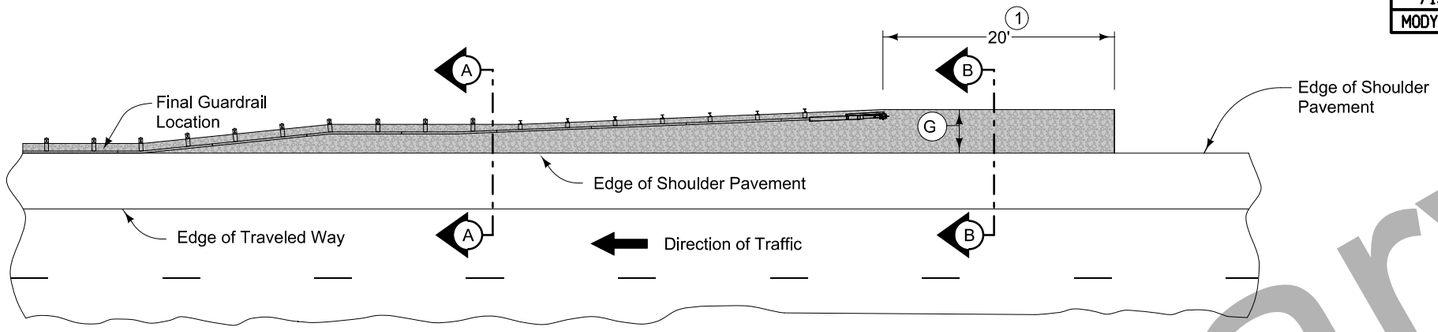
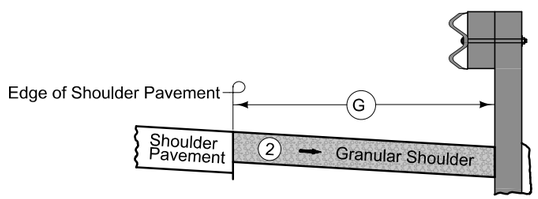
See Tab 112-9 for shoulder quantities.

US 75 SB

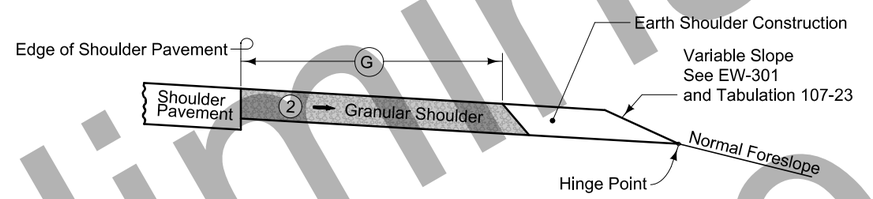
7158
MODYFIED



PLAN VIEW



Section A-A



Section B-B

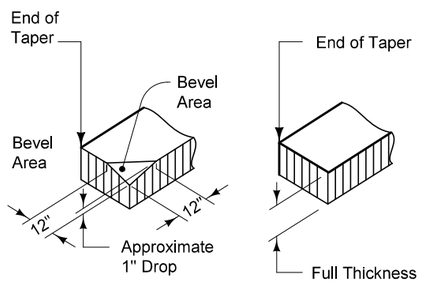
1. Continue granular shoulder 20 feet beyond the center of the first post
2. Match shoulder slope.

GRANULAR SHOULDER AT GUARDRAIL
(ADJACENT TO FULL WIDTH PAVED SHOULDER)

Refer to Tabulation 112-9 for shoulder quantities.

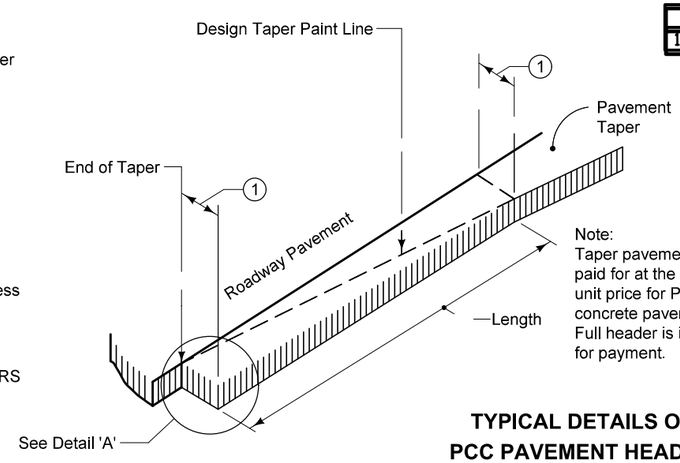
Preliminary
06-28-2022

7101
10-19-10



DETAIL 'A'
FOR GRANULAR SHOULDERS

DETAIL 'A'
FOR PAVED SHOULDERS

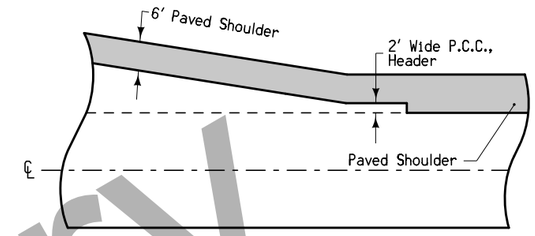


Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

(1) Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).

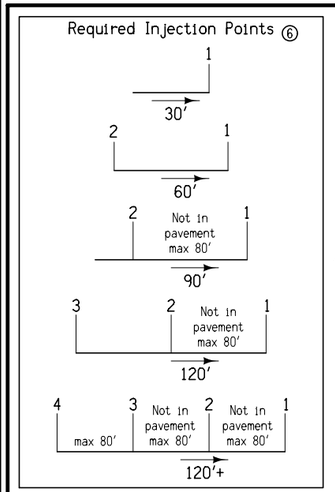
TYPICAL DETAILS OF PCC PAVEMENT HEADER

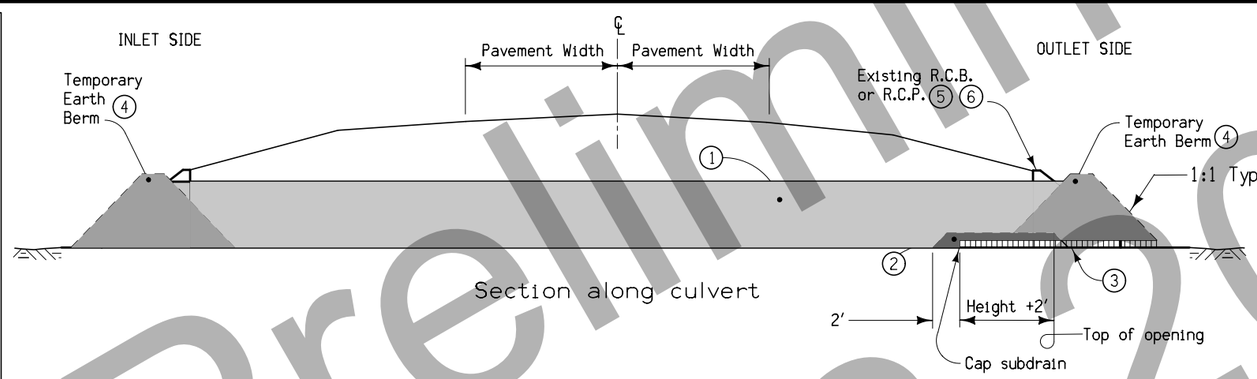
7154A
MODIFIED

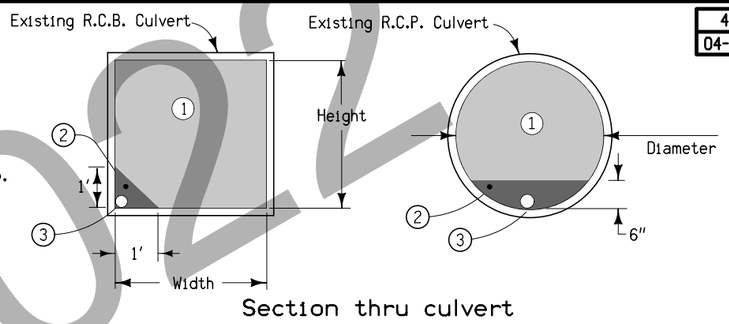


PAVED SHOULDER DETAIL AT TURN LANES

4315
04-15-08







(1) Flowable Mortar.
(2) Granular Backfill.
(3) 4" subdrain at flowline elevation of culvert shall be extended into the culvert a distance of 2' plus the height of the culvert. Granular Backfill covers subdrain and extends an additional 2'. Subdrain and granular backfill are incidental to flowable mortar.
(4) Ends of culvert shall be plugged sufficiently to retain flowable mortar. Temporary earth berms are incidental to flowable mortar.
(5) Removal of headwalls may be required.
(6) Outlet shall be filled first. See injection point detail for additional information.

DETAILS OF CULVERT ABANDONMENT WITH FLOWABLE MORTAR
(Rectangular structures less than 8' in either height or width. Circular structures less than 10' Dia.)

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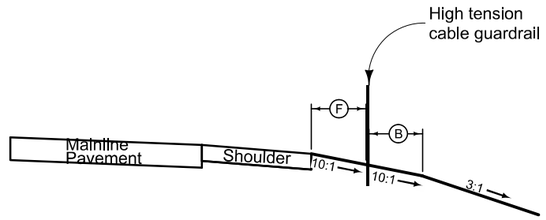
Grading
SPECIAL



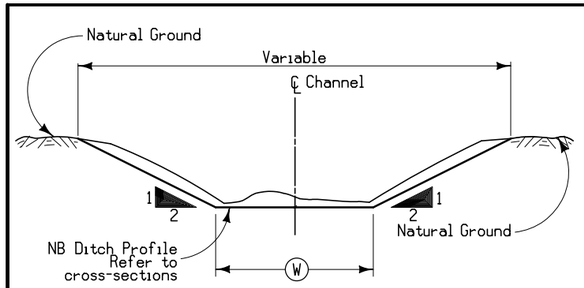
Location			F	B
Road Identification	Station to Station (1)		FT	FT
U.S. 75 (NBL) median	1332+82	1338+12	1	1
U.S. 75 (NBL) median	1345+58	1349+18	1	1
U.S. 75 (NBL) median	1361+50	1368+50	1	1
U.S. 75 (NBL) median	1385+16	1391+46	1	1
U.S. 75 (NBL) median	1439+66	1445+66	1	1
U.S. 75 (NBL) median	1483+02	1489+52	1	1
U.S. 75 (NBL) median	1556+25	1562+75	1	1
U.S. 75 (NBL) median	1568+50	1574+60	1	1
U.S. 75 (NBL) median	1583+50	1589+60	1	1
U.S. 75 (SBL) median	344+85	351+45	1	1
U.S. 75 (SBL) median	569+10	575+80	1	1
U.S. 75 (SBL) median	584+15	590+85	1	1

(1) includes lenght of grading for end anchor
Refer to Standard Road Plan EW-302
for slope transition area

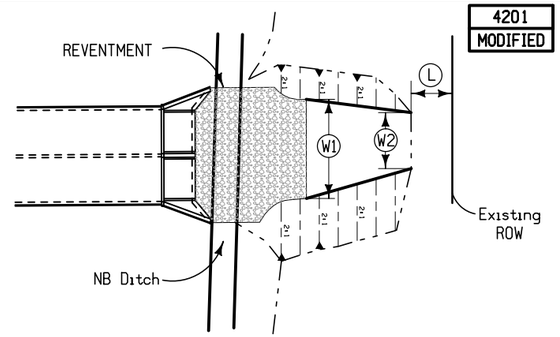
Grading For Cable Guardrail

Preliminary
06-28-2022

4201
MODIFIED



TYPICAL CROSS SECTION
CHANNEL CLEAN-OUT



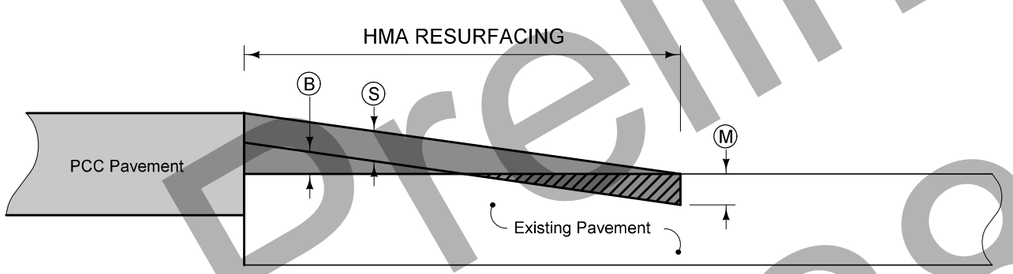
PLAN
CHANNEL CLEAN-OUT

LOCATION		L
STATION	SIDE	
1335+49.05	RT	5'
1365+13.00	RT	5'
1388+72.00	RT	5'
1443+20.00	RT	35'
1486+67.00	RT	5'
517+16.47	RT	5'
1560+00.00	RT	5'

W1 Refer to V sheets

W2 Match existing

HMA
RESURFACE



S 3" Surface Course
B Vari. Depth Base Course
M Vari. Depth Milling

Preliminary
06-28-2022

SURVEY SYMBOLS

- TP — TPD Telephone Pedestal
- EB — EB Electrical Box
- DU Centerline Draw or Stream (Up)
- D Centerline Draw or Stream (Down)
- EW Edge of Water
- RIP Rip-Rap
- SHR Shrub
- FCL Chain Link and Security Fence
- LUM Luminaire
- GDL Guard Rail Steel
- HDG Hedge Row
- RR Centerline of Railroad Tracks
- TEV Evergeen Tree
- TDC Tree Deciduous
- DIK Centerline of Dike or Dam
- SIGN — SI Sign

UTILITY LEGEND

—E2(B)—
MidAmerican Energy (Electric Distribution)
Craig Van Meeteren
Sr. Design Tech
2103 Park St
Sheldon, IA 51201
(712) 277-7670 Cell: (712) 470-2158
cavanmeeteren@midamerican.com

—FO(B)—
Zayo Fiber Solutions (Fiber Transmission)
John Ferraresi
Regional OSP Operations Specialist
810 Jorie Blvd. Suite 110
Oak Brook, IL 60523
(312) 216-0450 Cell: (847) 417-9609
john.ferraresi@zayo.com

— FO2(B)
MCI/Verizon Business (Fiber Transmission)
Thanh (TK) Nguyen
Outside Plant Engineer
2600 Westown Pkwy STE 100
West Des Moines, IA 50266
(515) 783-7177 Cell: (515) 783-7177
thanh.nguyen3@verizon.com

— FO4(B)
Premier Communications
Les Sybesma
Network Operations Manager
339 1st Ave NE
Sioux Center, IA 51250
(712) 722-3451 Cell: (712) 441-4956
lsybesma@mypremieronline.com

— FO5(B)
Lumen Centurylink Fiber
Steve Parker
Manager of Engineering & Construction
2103 E. University Ave.
Des Moines, IA 50317
(515) 265-0968 Cell: (507) 358-1978
Steven.Parker4@lumen.com

— FO8(B)
Fiber Net / Premier Communications
Les Sybesma
Network Operations Manager
339 1st Ave NE
Sioux Center, IA 51250
(712) 722-3451 Cell: (712) 441-4956
lsybesma@mypremieronline.com

—T1(B)—
Lumen Centurylink (Telephone)
Steve Parker
Manager of Engineering & Construction
2103 E. University Ave.
Des Moines, IA 50317
(515) 265-0968 Cell: (507) 358-1978
Steven.Parker4@lumen.com

— W(B) —
City of Hinton Water
Kyle Utech
Public Works Director
205 W Main St. PO Box 1023
Hinton, IA 51024
(712) 947-4129 Cell: (712) 333-1986
maint@hintoniowa.com

MidAmerican Energy (Electric Transmission)
William Schierbrock
Manager, High Voltage Engineering
106 East Second Street
Davenport, IA 52801
(563) 333-8155
William.Schierbrock@midamerican.com

Northwest Iowa Power Cooperative (NIPCO)
(Electric Distribution)
Steven Ver Mulm
Vice President Engineering & Opeartions
31002 County Road C38
Le Mars, IA 51031
(712) 546-4141
svermulm@nipco.coop

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING	**Design Color No.**	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

- Reference Point — Survey Line
- Station — Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

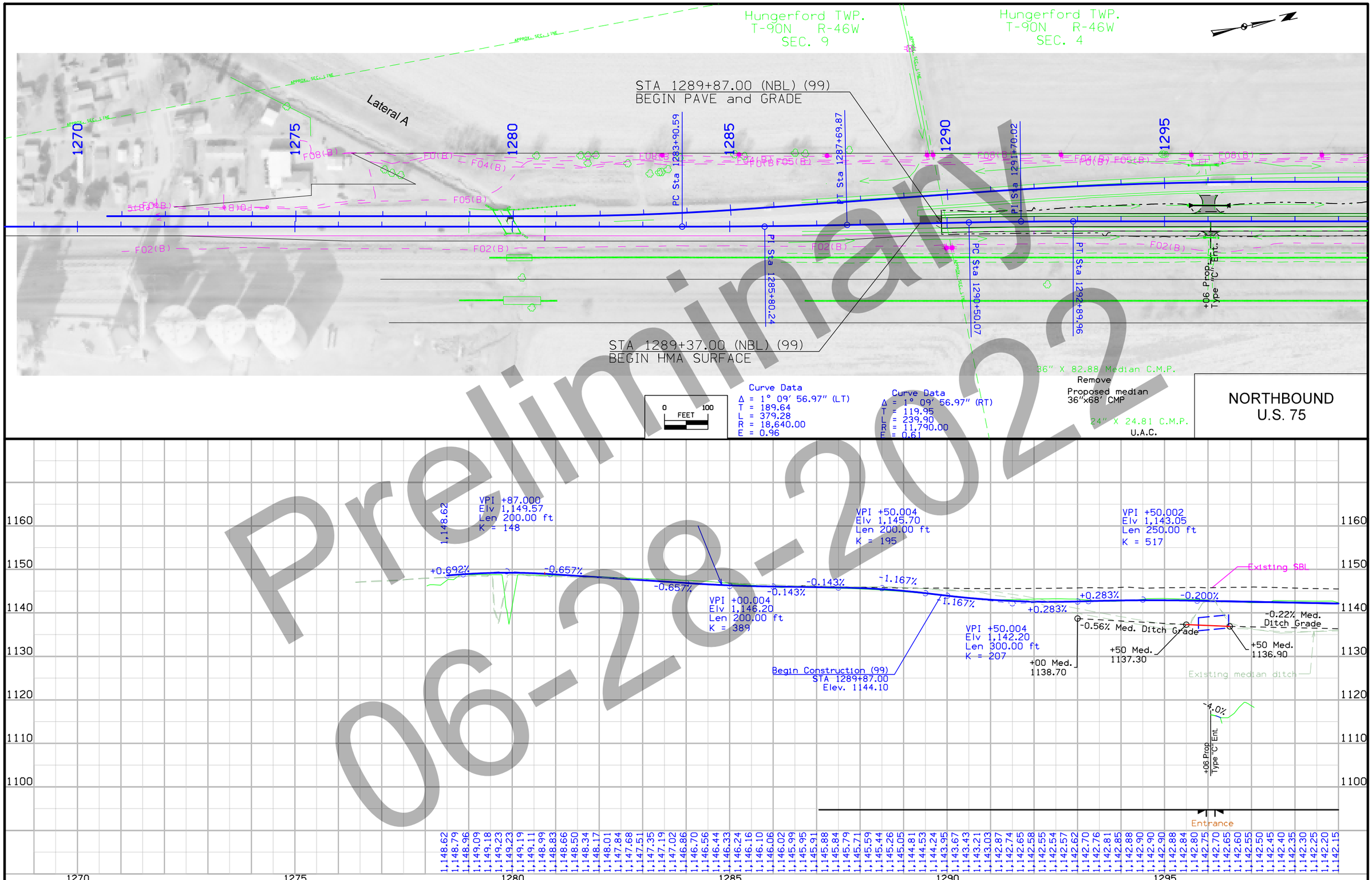
RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A — Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

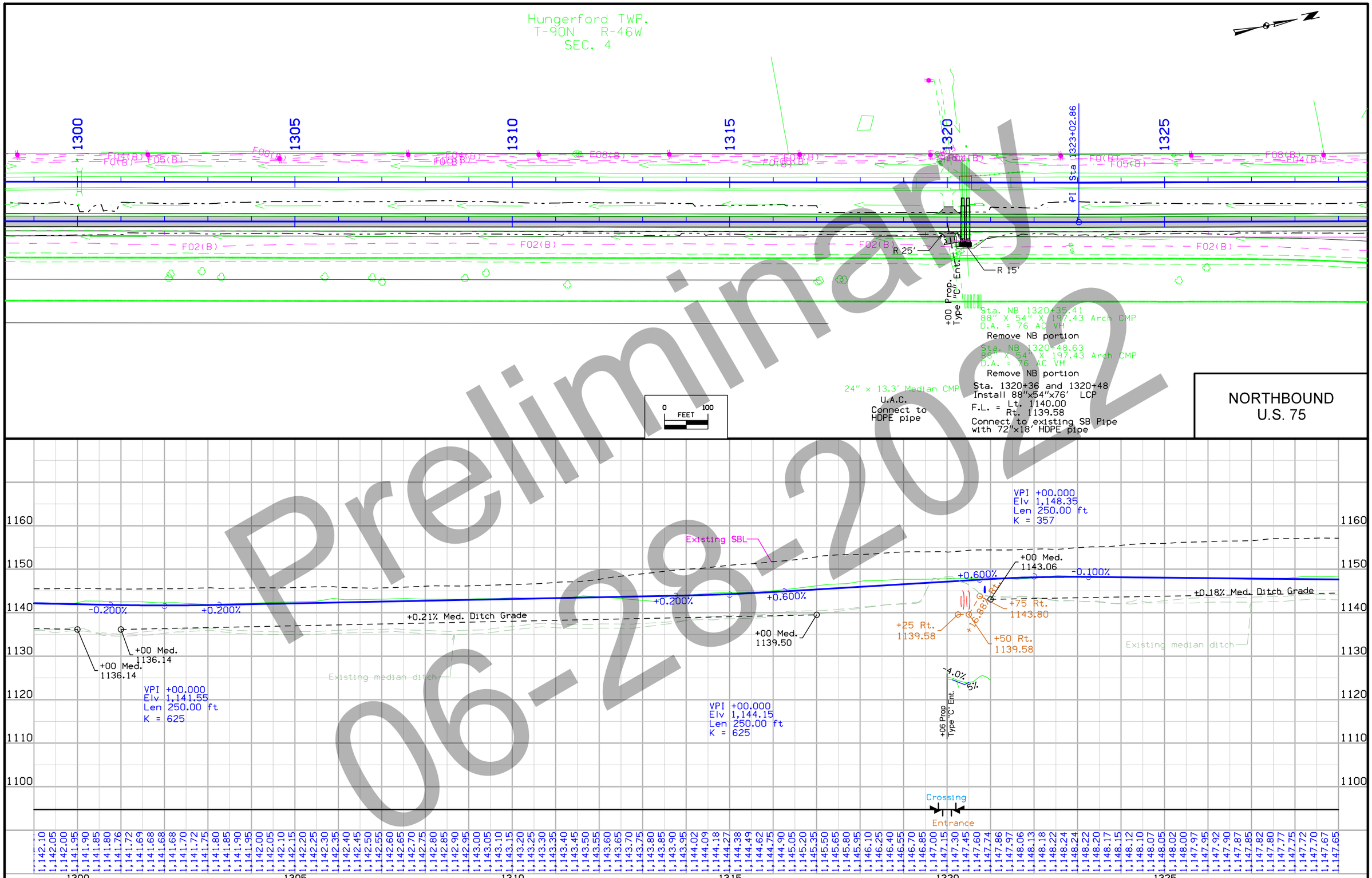
(COVERS SHEET SERIES D, E, F, & K)

Preliminary 06-28-2022



Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER D.2



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06-28-2022

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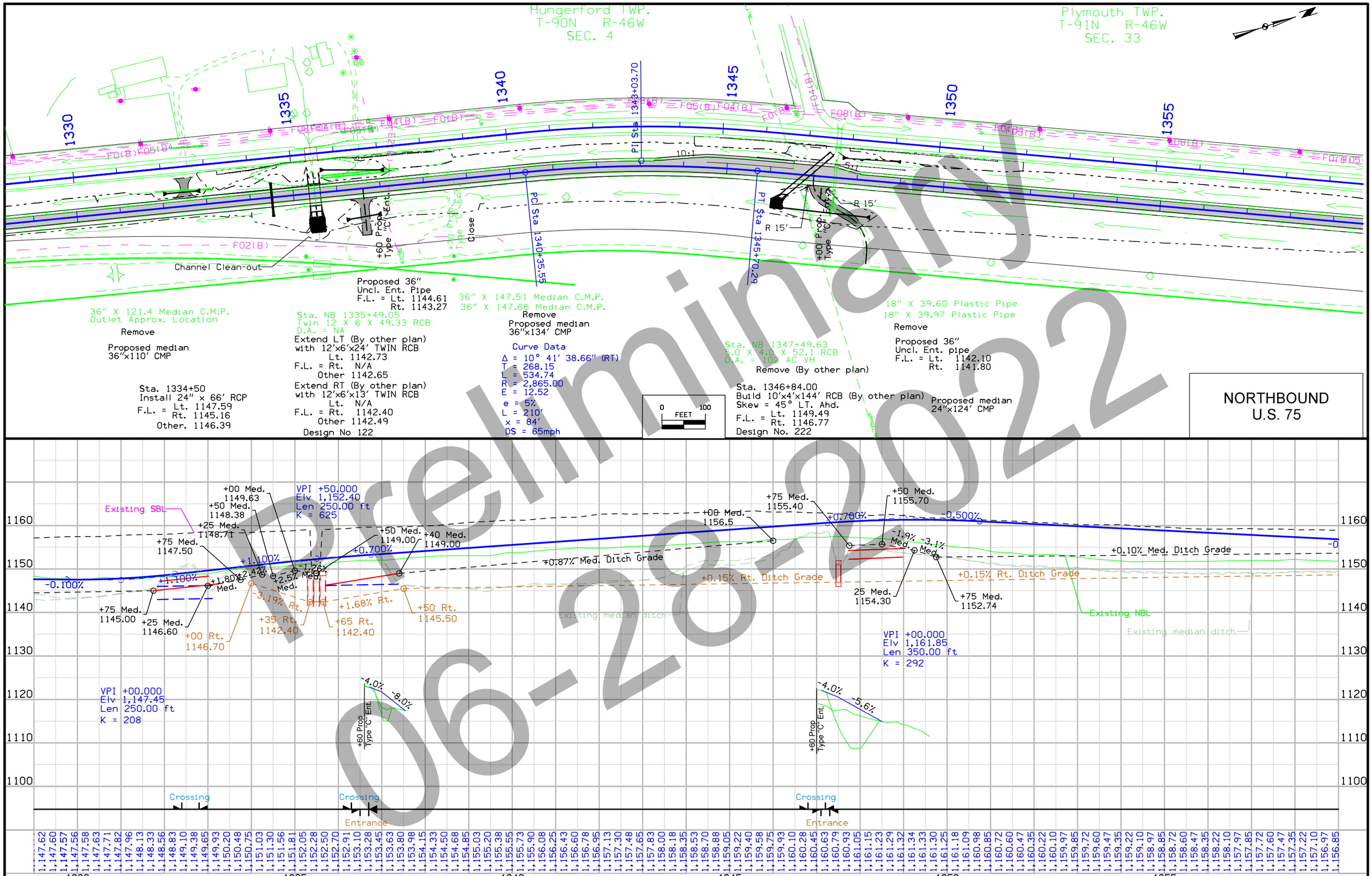

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06-28-2022

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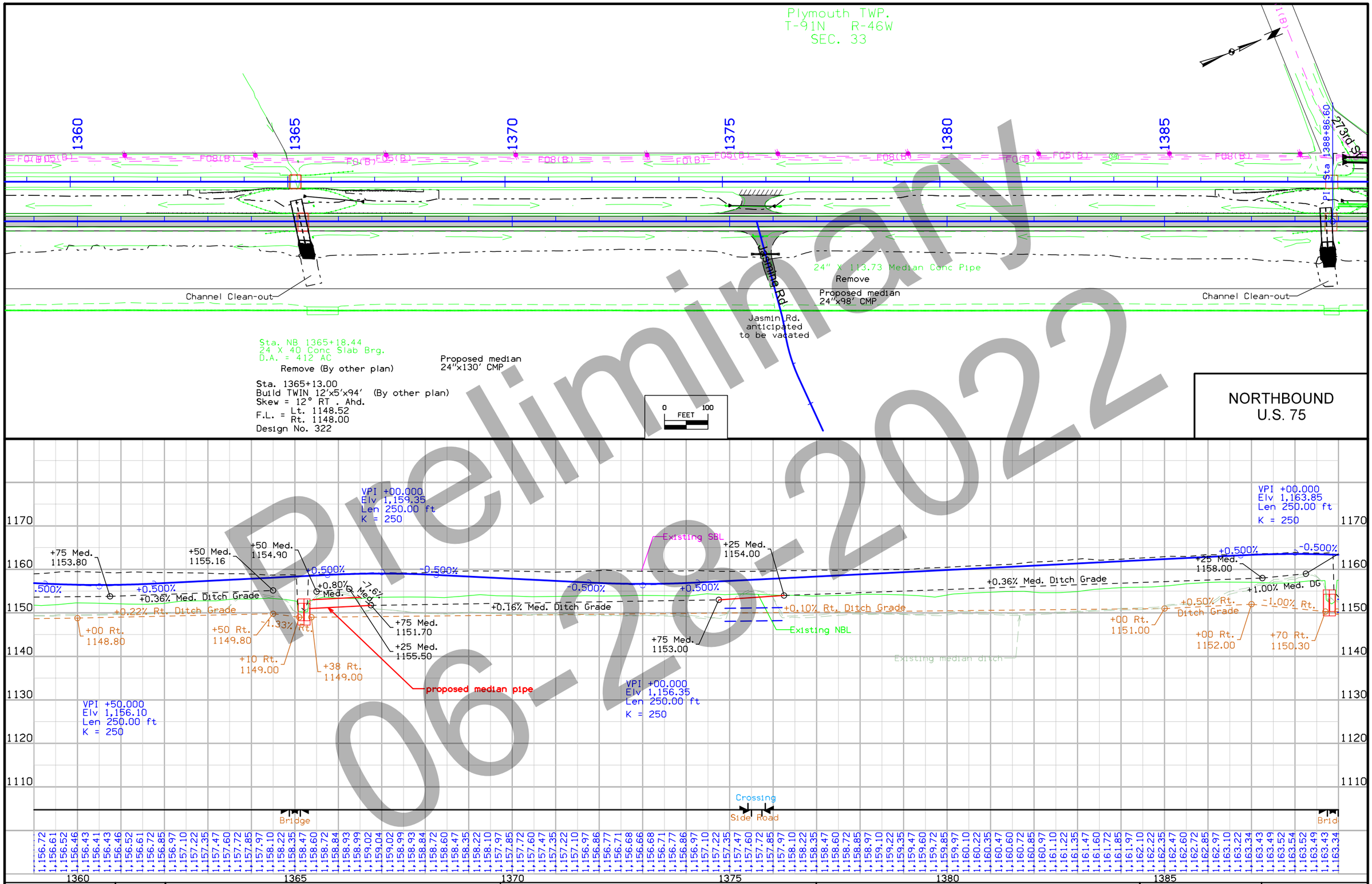

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06-28-2022

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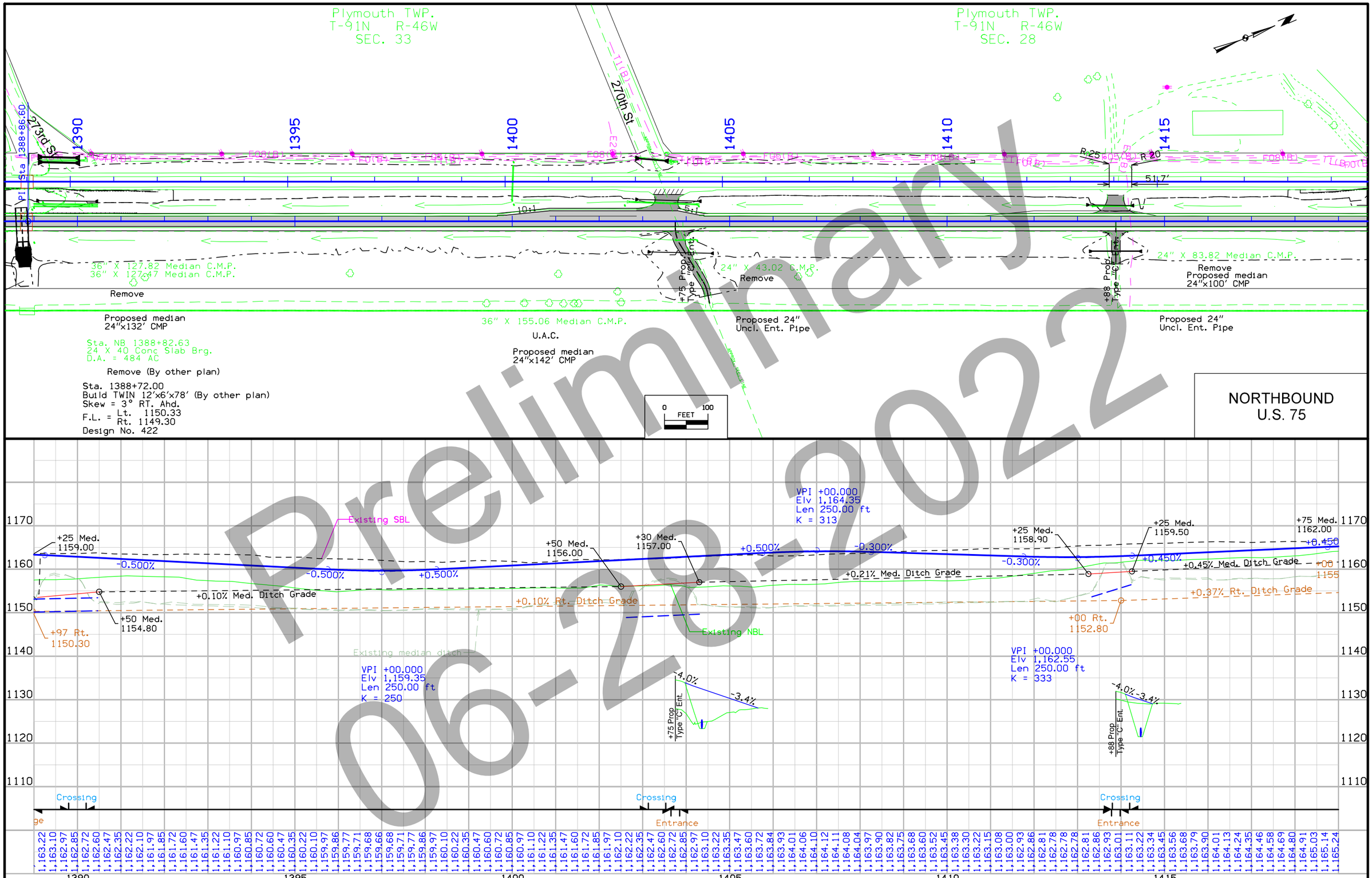

Preliminary
06-28-2022

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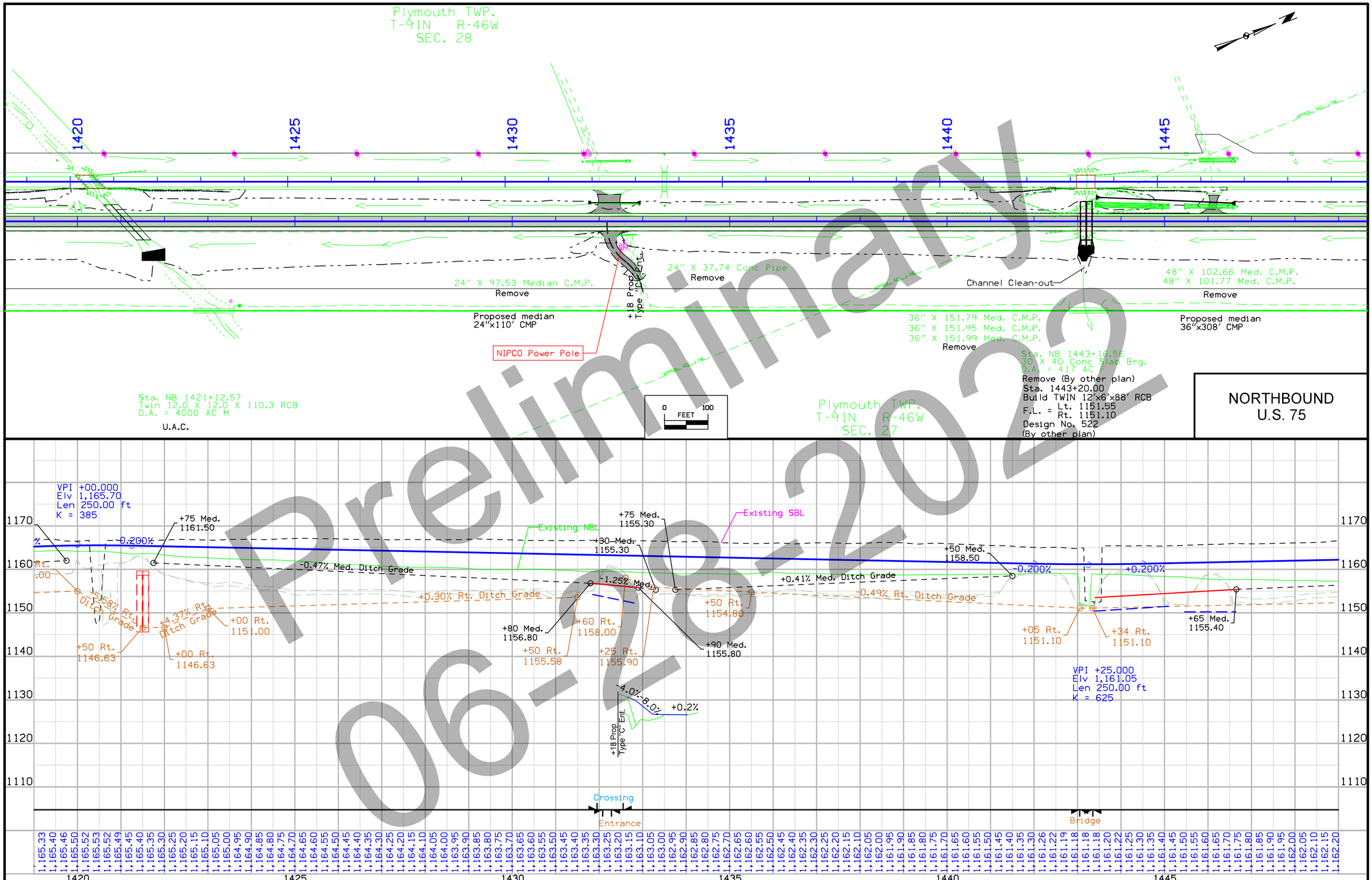

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06-28-2022

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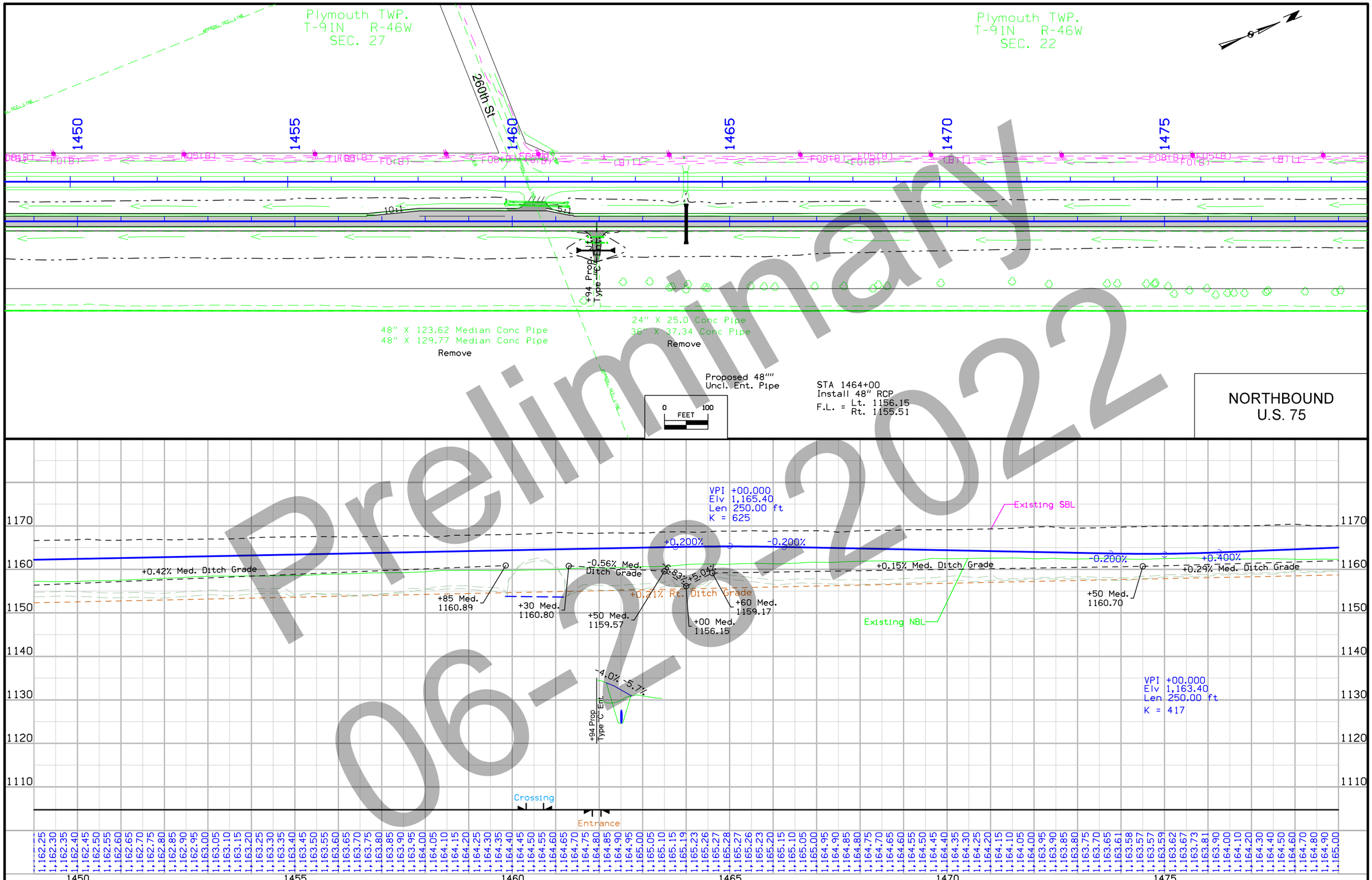

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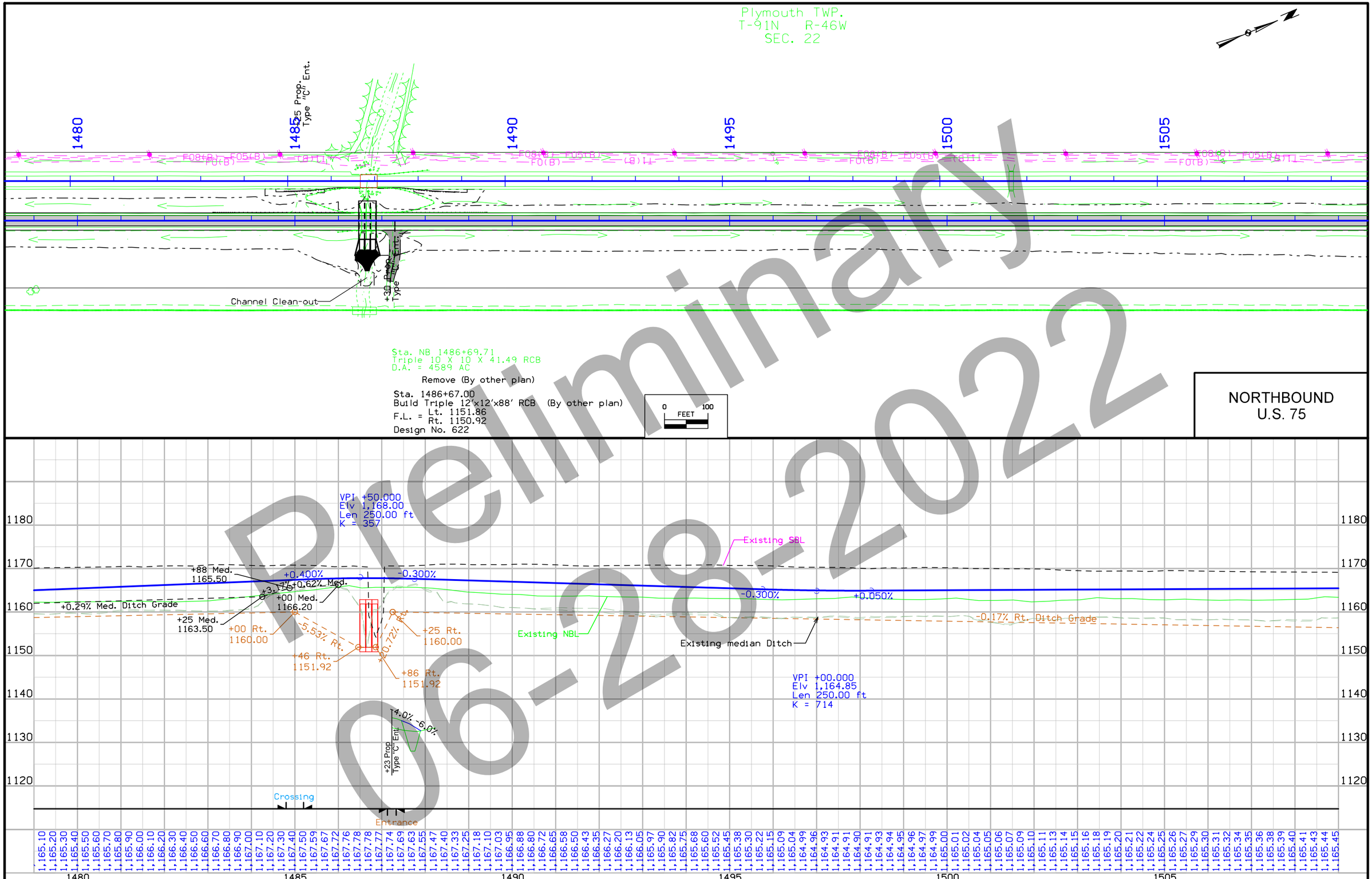
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER D.8

Plymouth TWP.
T-91N R-46W
SEC. 22



Preliminary
06-28-2022

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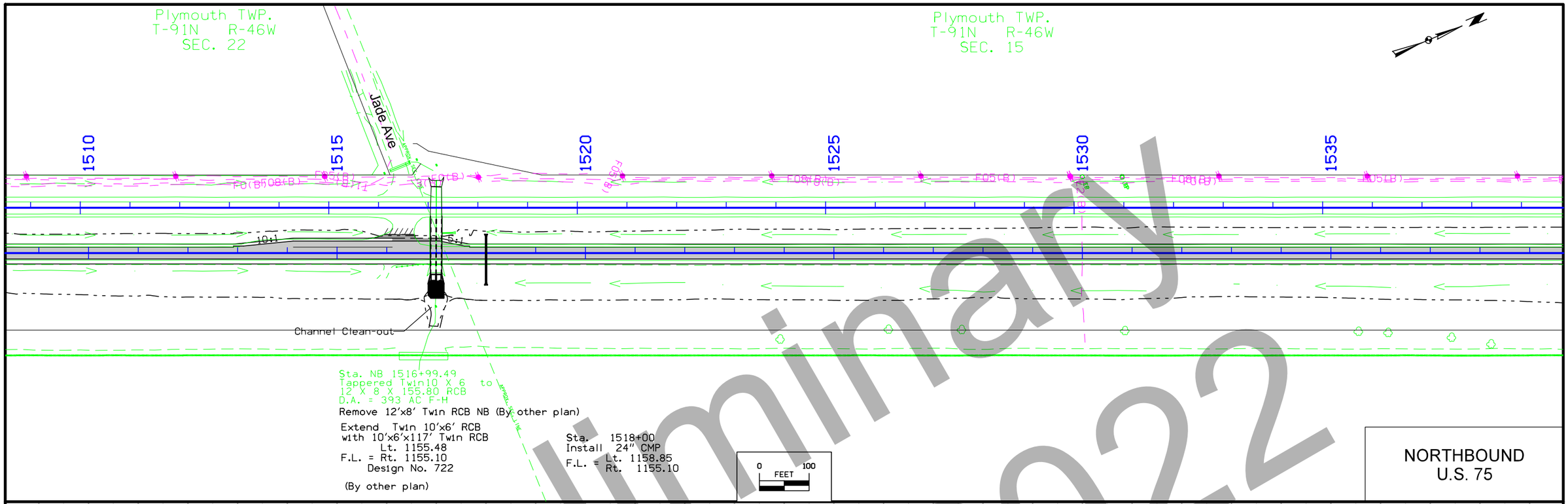

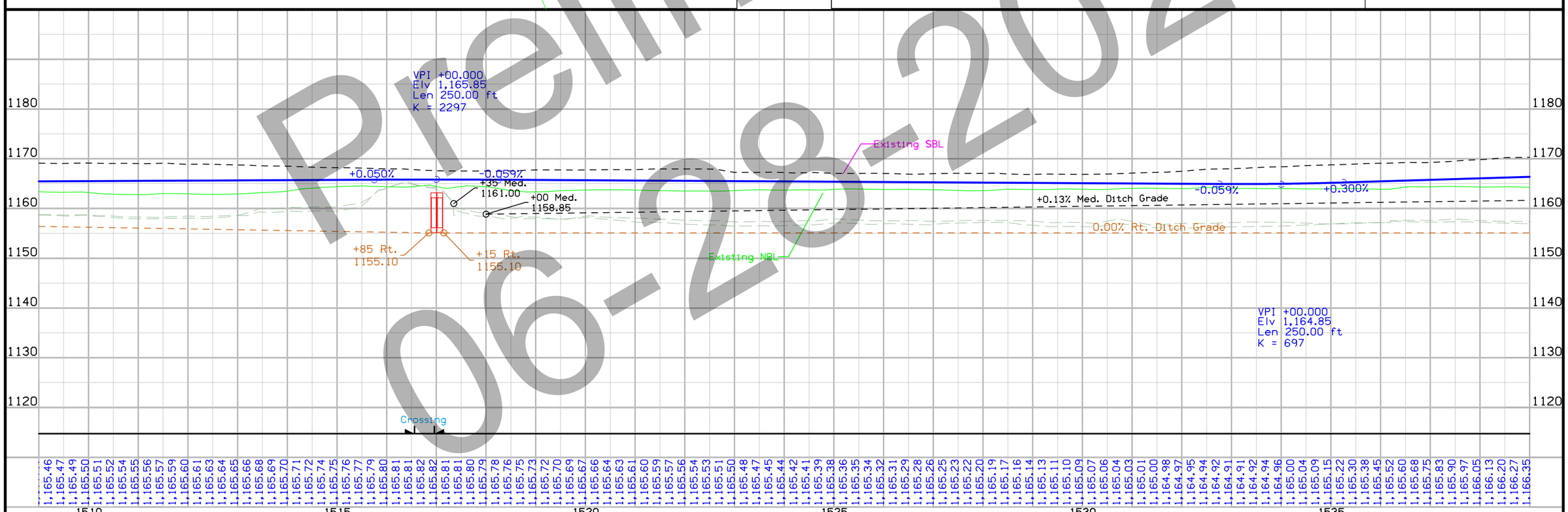

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06-28-2022

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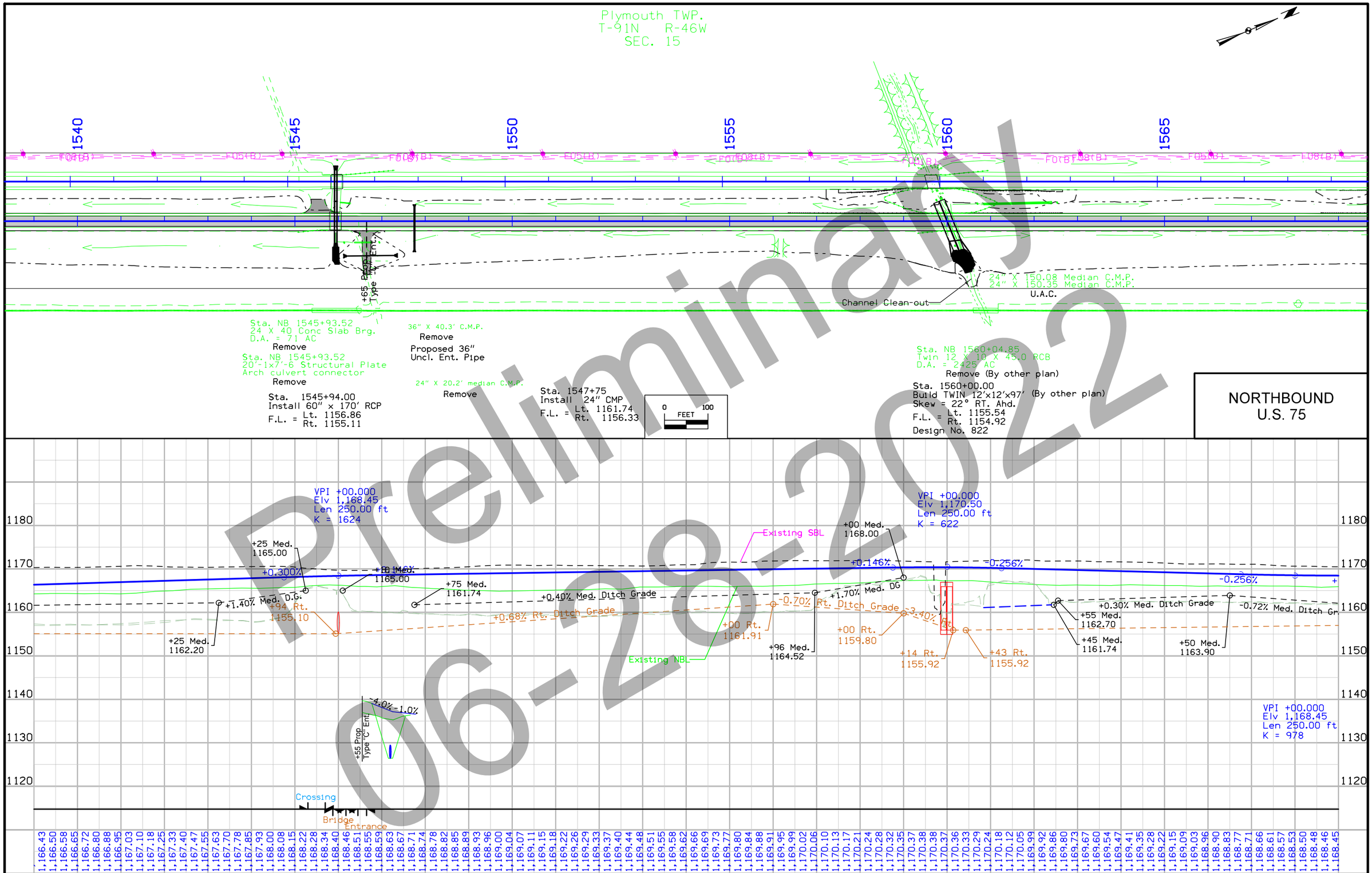

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06-28-2022

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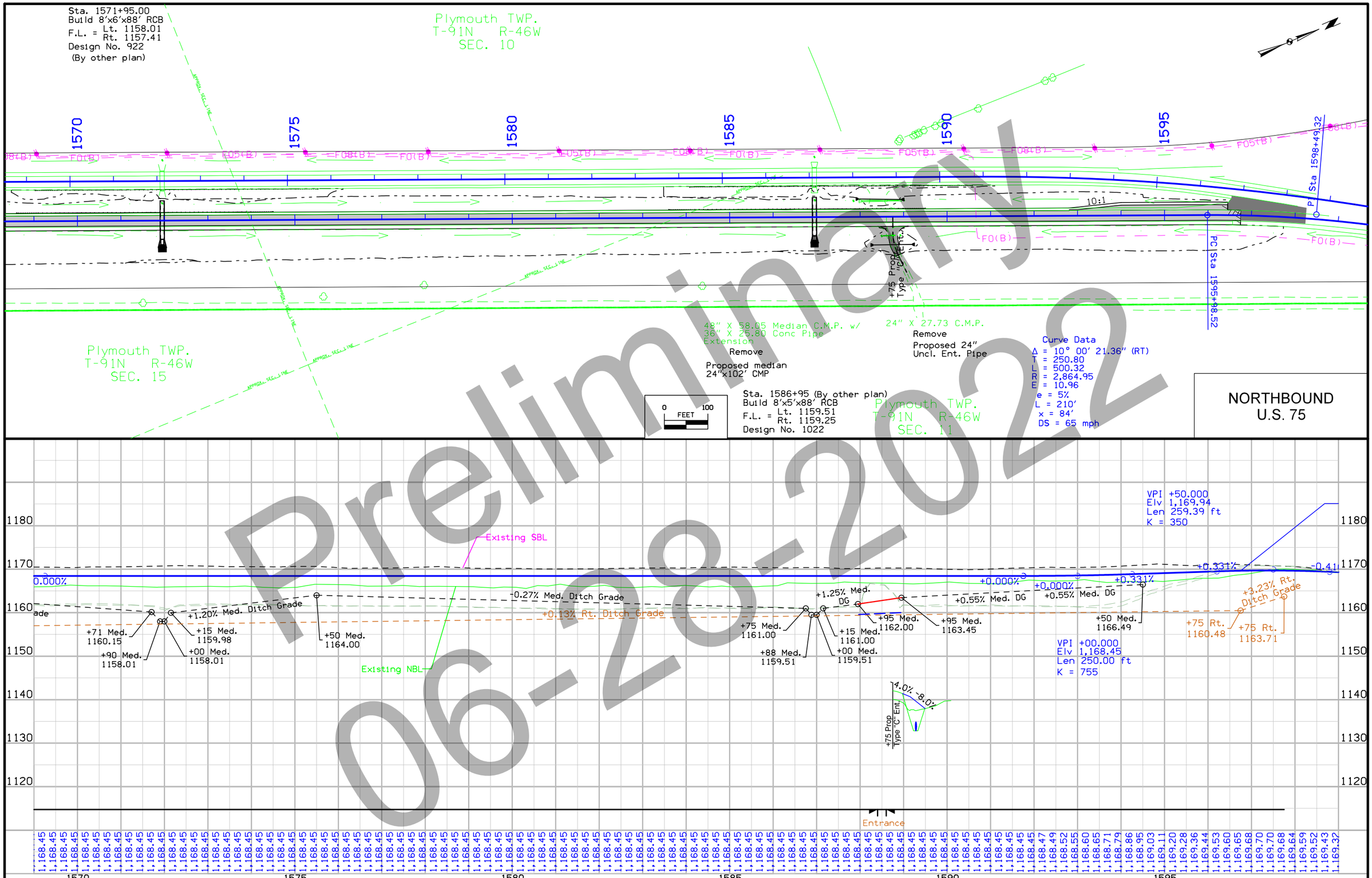

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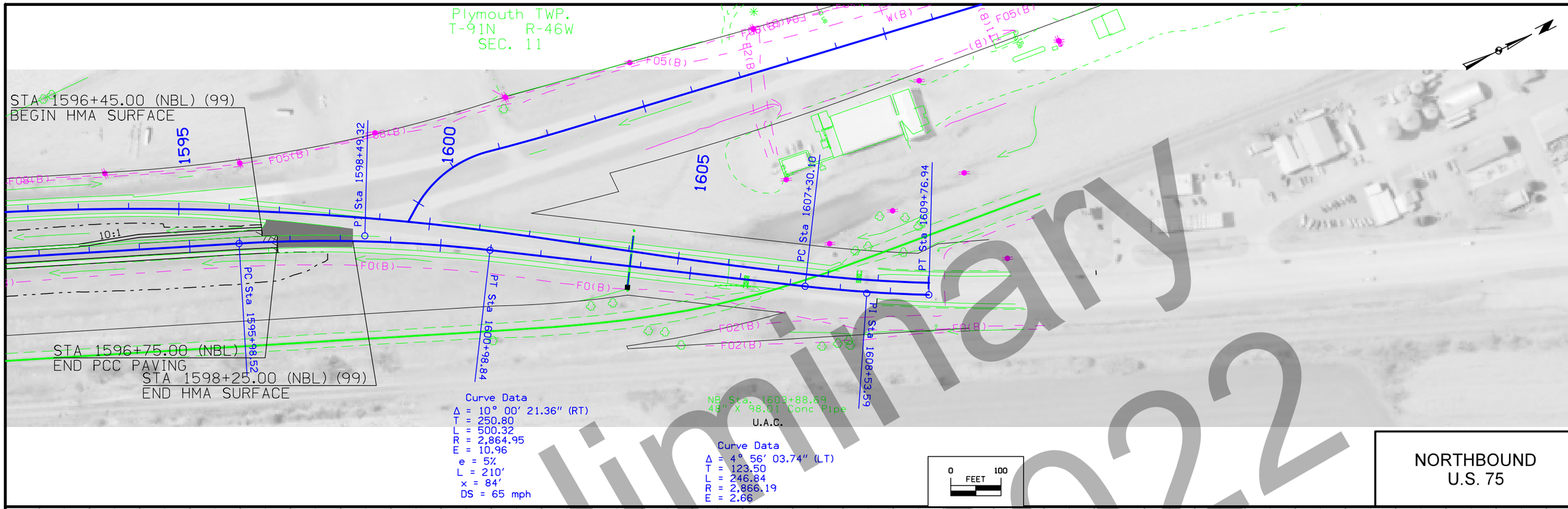

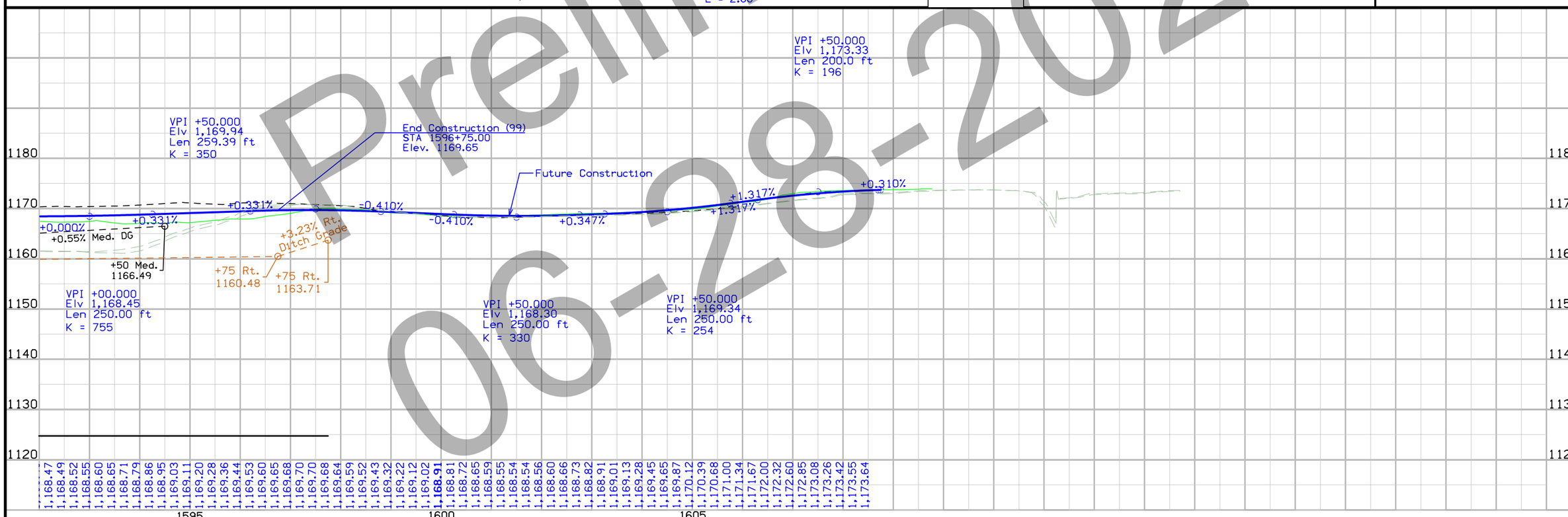

Preliminary
06-28-2022

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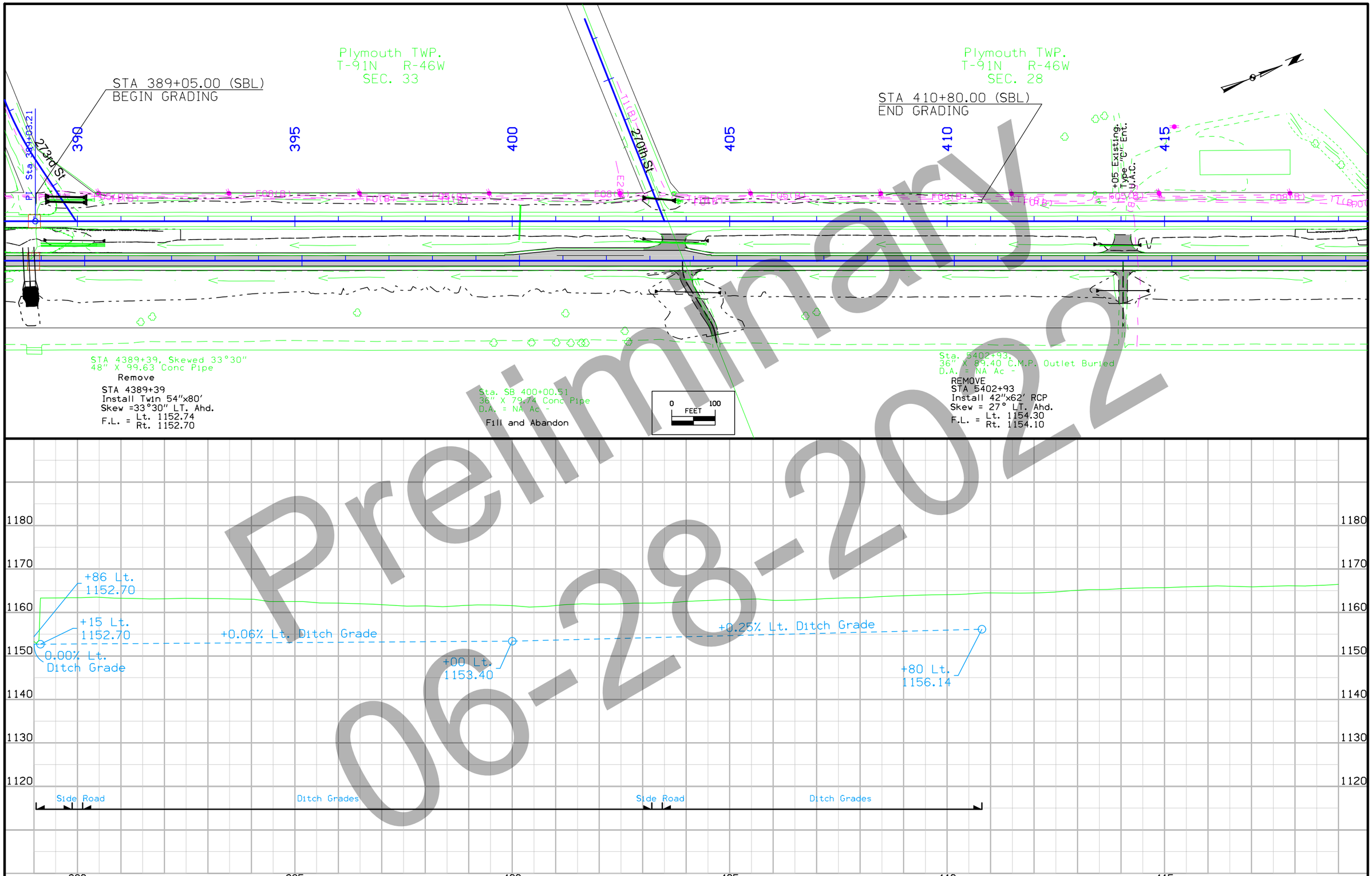

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06-28-2022

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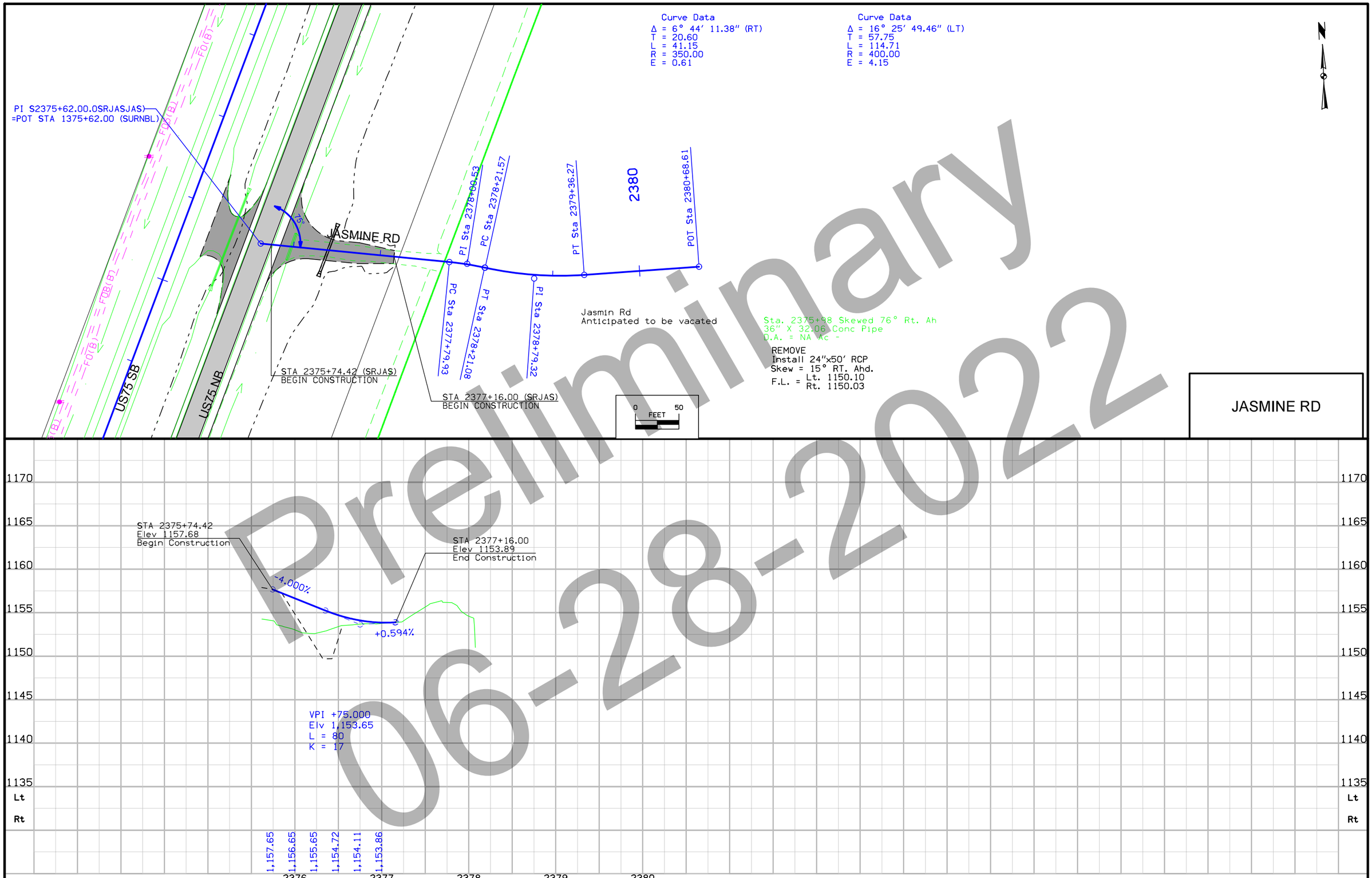

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FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER E.1

Survey Information

County: Plymouth
PIN: 16-75-075-030
Project Number: NHSX-075-2(91)--3H-75
Location: US 75 North of Hinton to just South of Merrill
Type of Work: Preliminary Engineering
Project Directory: 7507501016
SAP 666.3

General Information
Measurement units for this survey are US survey feet. This survey is for preliminary engineering of US 75 between Hinton and Merrill. This project is a combination of field survey and aerial survey. The existing pavement was only field surveyed at the tie in locations at each end of the project. The rest was surveyed using aerial photography.

Vertical Control
Vertical Control was established on 3 monuments on the project designated as points 13, 67 and 126. These monuments are stable and are expected to hold vertical reasonably well. The vertical datum is NAVD88. Datum was transferred from the Iowa RTN reference station at Le Mars to the projects monuments mentioned above by using concurrent 6 hour static measurements and post processing connecting vectors. Geoid 12 A was used in processing. The Le Mars reference station orthometric height used is 1287.25 US Survey Ft.

This survey observed 4 Plymouth Control Monuments with published NAVD88 heights to validate the reference station height used in computation of project heights. The County control has a stated vertical accuracy of + or 13/32 0.10 ft. The survey heights determined at the two county monuments validate the NAVD 88 height used at the Le Mars reference station and the positions of the project control monuments within acceptable tolerance.

County Control mark designated 067 has a published height. Of 1189.29
Survey height. = 1189.45.

County Control mark designated 126 has a published height. Of 1218.54
Survey height. = 1218.55

County Control mark designated 057 has a published height. Of 1199.53
Survey height. = 1199.612

County Control mark designated 125 has a published height. Of 1326.99
Survey height. = 1327.167

Horizontal Control
Horizontal Control was established on 3 monuments on the project designated as points 13, 67 and 126. These monuments are stable and are expected to hold vertical reasonably well. The horizontal datum is NAD83(2011) (EPOCH 2010.00). Datum was transferred from the Iowa RTN reference station at LeMars to the projects monuments mentioned above by using concurrent 6 hour static measurements and post processing connecting vectors. Iowa Regional Coordinate System Zone 4 is used. The Zone 4 coordinates used at the Le Mars reference station are: N= 8699224.17, E= 14146951.66. See http://www.iowadot.gov/rtn/pdfs/IaRCS/IaRCS_04_SiouxCity_IowaFalls.pdf for information regarding Iowa Regional Coordinate System Zone 4.

Additional static observations of county monuments and feno monuments extended control south from Merrill to Sioux City.

Survey Alignment Information
The horizontal alignment for this survey is prepared by the District 3 ROW office.

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VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Feature	Description
1	8612460.571	14094986.545	1118.369	Off Chain	Off Chain	CP	SET FENO
2	8619288.380	14101557.731	1126.053	Off Chain	Off Chain	CP	SET FENO
3	8625665.153	14108836.665	1137.387	Off Chain	Off Chain	CP	SET FENO
4	8648169.455	14110472.227	1150.332	376+09.75	59.294	CP	SET FENO
13	8673332.305	14122460.394	1175.325	Off Chain	Off Chain	CP	T BAR
57	8663000.800	14113086.834	1199.612	522+93.27	-3287.371	CP	PLYMOUTH COUNTY MONUMENT
67	8677436.502	14127875.886	1189.446	Off Chain	Off Chain	CP	PLYMOUTH COUNTY MONUMENT
125	8637478.516	14104870.078	1327.167	Off Chain	Off Chain	CP	PLYMOUTH COUNTY MONUMENT
126	8687066.908	14129254.536	1218.551	Off Chain	Off Chain	CP	PLYMOUTH COUNTY MONUMENT

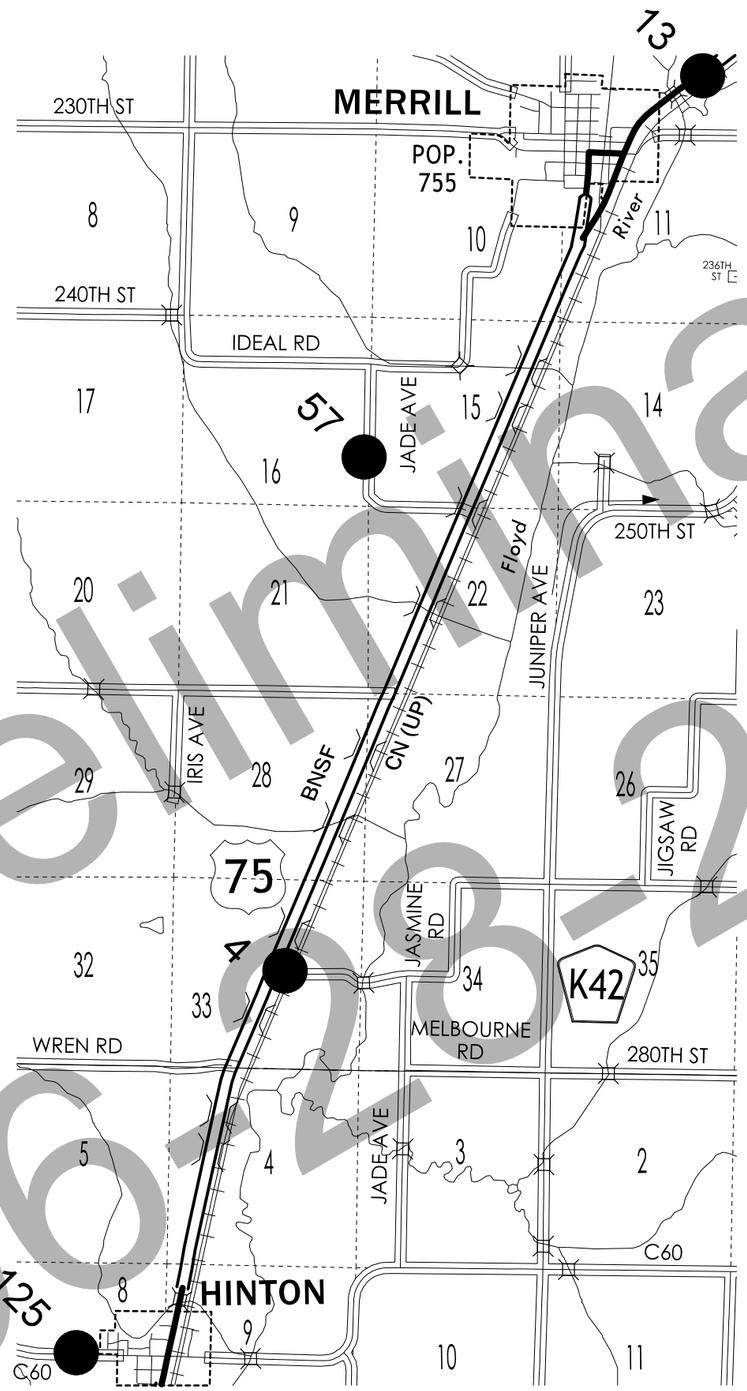
Control Point Vicinity Map

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.

HORIZ. DATUM: NAD83(2011) EPOCH 2010

VERTICAL DATUM: NAVD88

Iowa Regional Coordinate System Zone 4



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ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
1	NBL	1263+53.50 R1	8637375.04	14107447.50															
2	NBL							1283+90.59 R1	8639364.69	14107884.58	1285+80.24 R1	8639549.92	14107925.27	1287+69.87 R1	8639735.93	14107962.19			
4	NBL							1290+50.07 R1	8640010.77	14108016.73	1291+70.02 R1	8640128.43	14108040.08	1292+89.96 R1	8640245.59	14108065.81			
6	NBL	1323+02.87 R1	8643188.32	14108712.26															
7	NBL							1340+35.56 R1	8644882.19	14109076.98	1343+03.71 R1	8645144.33	14109133.43	1345+70.30 R1	8645391.45	14109237.53			
9	NBL	1388+86.61 R1	8649369.17	14110913.32															
10	NBL							1595+98.52 R1	8668457.58	14118951.74	1598+49.32 R1	8668688.72	14119049.07	1600+98.85 R1	8668899.43	14119185.09			
12	NBL							1609+76.94 R1	8669429.79	14119527.44	1608+53.60 R1	8669533.64	14119594.26	1609+76.94 R1	8669642.86	14119651.91			
1	SURSBL							280+66.13 R1	8639054.88	14107791.96	284+65.49 R1	8639444.94	14107877.64	288+64.53 R1	8639840.02	14107935.97			
3	SURSBL							292+00.66 R1	8640172.55	14107985.06	296+00.02 R1	8640567.63	14108043.39	299+99.06 R1	8640957.69	14108129.07			
5	SURSBL	323+02.68 R1	8643207.66	14108623.34															
6	SURSBL							340+35.18 R1	8644901.34	14108988.02	343+11.85 R1	8645171.81	14109046.26	345+86.91 R1	8645426.78	14109153.67			
8	SURSBL	345+86.91 R1	8645426.78	14109153.67															
9	SURSBL	389+03.21 R1	8649404.50	14110829.45															
10	SURSBL							592+37.30 R1	8668144.69	14118721.23	594+88.09 R1	8668375.83	14118818.57	597+37.62 R1	8668586.54	14118954.59			
11	SURSBL	607+56.76 R1	8669442.79	14119507.30															
1	SBL	270+65.89 R1	8638078.17	14107577.39															
2	SBL							280+73.26 R1	8639062.08	14107793.54	283+07.89 R1	8639291.25	14107843.88	285+42.33 R1	8639523.46	14107877.57			
4	SBL							290+60.43 R1	8640036.20	14107951.96	294+03.36 R1	8640375.58	14108001.20	297+46.00 R1	8640710.52	14108074.78			
6	SBL	323+02.68 R1	8643207.66	14108623.34															
7	SBL							340+35.18 R1	8644901.34	14108988.02	343+11.85 R1	8645171.81	14109046.26	345+86.91 R1	8645426.78	14109153.67			
9	SBL	389+03.21 R1	8649404.50	14110829.45															
10	SBL							590+90.03 R1	8668008.96	14118664.08	596+63.91 R1	8668537.86	14118886.80	602+33.65 R1	8669009.38	14119213.92			
12	SBL							604+27.58 R1	8669168.72	14119324.45	605+77.42 R1	8669291.84	14119409.86	607+27.23 R1	8669417.73	14119491.13			
14	SBL							607+57.05 R1	8669442.79	14119507.30	608+79.52 R1	8669545.78	14119573.55	610+01.83 R1	8669654.09	14119630.70			
1	SRJAS	2375+62.00 R1	8648148.47	14110399.05															
2	SRJAS							2377+79.93 R1	8648118.72	14110614.94	2378+00.53 R1	8648115.91	14110635.34	2378+21.08 R1	8648110.73	14110655.28			
4	SRJAS							2378+21.57 R1	8648110.60	14110655.75	2378+79.32 R1	8648096.07	14110711.64	2379+36.27 R1	8648097.93	14110769.36			
5	SRJAS	2380+68.61 R1	8648102.20	14110901.62															
1	ENT1296	0+00.00 R1	8640554.27	14108133.62															
1	ENT1296	1+00.00 R1	8640532.81	14108231.29															
1	ENT1320	0+00.00 R1	8642892.51	14108647.28															
1	ENT1320	1+10.00 R1	8642889.84	14108757.25															
1	ENT1336	0+00.00	8644515.05	14108997.93															
1	ENT1336	1+20.00	8644489.79	14109115.24															
1	ENT1347	0+00.00	8645511.34	14109288.04															
2	ENT1347							0+11.25	8645506.97	14109298.41	0+41.97	8645495.04	14109326.72	0+66.34	8645514.90	14109350.15			
4	ENT1347							1+33.14	8645558.09	14109401.11	1+88.61	8645593.95	14109443.43	2+32.56	8645572.26	14109494.48			
5	ENT1347	2+59.37	8645561.77	14109519.16															
1	ENT1403	0+00.00	8650740.90	14111490.97															
2	ENT1403							0+14.50	8650735.27	14111504.34	0+35.82	8650727.00	14111523.98	0+56.03	8650730.29	14111545.04			
4	ENT1403							1+56.92	8650745.88	14111644.71	1+70.29	8650747.95	14111657.92	1+83.38	8650745.32	14111671.03			
5	ENT1403	2+12.87	8650739.53	14111699.94															
1	ENT1414	0+00.00	8651674.49	14111884.12															
1	ENT1414	1+50.00	8651616.28	14112022.37															
1	ENT1432	0+00.00	8653361.05	14112594.36															
2	ENT1432							0+10.33	8653357.04	14112603.87	0+58.55	8653338.32	14112648.31	1+00.19	8653361.44	14112690.63			
4	ENT1432							1+08.13	8653365.25	14112697.60	1+41.20	8653381.11	14112726.62	1+72.01	8653376.54	14112759.38			
5	ENT1432	1+94.53	8653373.42	14112781.68															
1	ENT1462	0+00.00	8656103.77	14113749.36															
1	ENT1462	1+50.00	8656045.56	14113887.60															
1	ENT1487	0+00.00	8658440.99	14114733.60															
2	ENT1487							0+66.50	8658415.18	14114794.89	0+82.64	8658408.92	14114809.76	0+98.66	8658399.63	14114822.96			
4	ENT1487							1+18.25	8658388.36	14114838.99	1+37.15	8658377.49	14114854.45	1+55.86	8658370.79	14114872.12			
5	ENT1487	1+72.20	8658366.78	14114882.71															
1	ENT1546	0+00.00	8663910.77	14117037.01															
2	ENT1546							1+12.38	8663867.16	14117140.58	1+21.12	8663863.76	14117148.63	1+29.84	8663861.33	14117157.03			
3	ENT1546	1+30.50	8663861.15	14117157.66															
1	ENT1588	0+00.00	8667790.77	14118670.93															
2	ENT1588							0+35.25	8667777.09	14118703.42	0+62.52	8667766.51	14118728.55	0+88.87	8667767.82	14118755.78			
3	ENT1588	1+33.69	8667769.99	14118800.55															

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101-17
04-19-11

SPIRAL OR CIRCULAR CURVE DATA

Name	Location	ΔSCS	Horizontal Alignment Data													Remarks
			Spiral Data								Curve Data					
			θS	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	ΔC	T	L	R	E	
C1	NBL										1°09'57.0"	189.645	379.277	18640.000	0.965	
C2	NBL										1°09'57.0"	119.952	239.897	11790.000	0.610	
C3	NBL										10°41'38.7"	268.150	534.742	2864.996	12.521	
C4	NBL										10°00'21.4"	250.800	500.325	2864.949	10.957	
C5	NBL										4°56'03.7"	123.496	246.839	2866.186	2.659	
C1	SURSBL										3°59'30.2"	399.360	798.397	11459.878	6.956	
C2	SURSBL										3°59'30.2"	399.360	798.397	11459.878	6.956	
C3	SURSBL										10°41'38.7"	276.668	551.729	2956.005	12.919	
C4	SURSBL										10°00'21.4"	250.800	500.325	2864.949	10.957	
C1	SBL										4°08'05.0"	234.636	469.068	6500.000	4.234	
C2	SBL										4°08'05.0"	342.929	685.561	9500.000	6.187	
C3	SBL										10°41'38.7"	276.668	551.729	2956.005	12.919	
C4	SBL										11°54'48.9"	573.881	1143.623	5500.000	29.859	
C5	SBL										1°54'27.6"	149.842	299.655	9000.000	1.247	
C6	SBL										4°56'03.7"	122.462	244.773	2842.202	2.637	
C1	SRJAS										6°44'11.4"	20.599	41.151	350.000	0.606	
C2	SRJAS										16°25'49.5"	57.749	114.706	400.000	4.147	
C1	ENT1347										63°07'23.2"	30.714	55.085	50.000	8.680	
C2	ENT1347										63°17'40.9"	55.471	99.423	90.000	15.721	
C1	ENT1403										31°43'36.2"	21.312	41.530	75.000	2.969	
C2	ENT1403										20°12'55.4"	13.370	26.462	75.000	1.182	
C1	ENT1432										51°29'12.3"	48.220	89.861	100.000	11.019	
C2	ENT1432										36°35'51.9"	33.070	63.875	100.000	5.326	
C1	ENT1487										12°16'54.9"	16.139	32.154	150.000	0.866	
C2	ENT1487										14°21'45.3"	18.900	37.601	150.000	1.186	
C1	ENT1546										6°40'03.5"	8.738	17.456	150.000	0.254	
C1	ENT1588										25°36'11.4"	27.267	53.623	120.000	3.059	

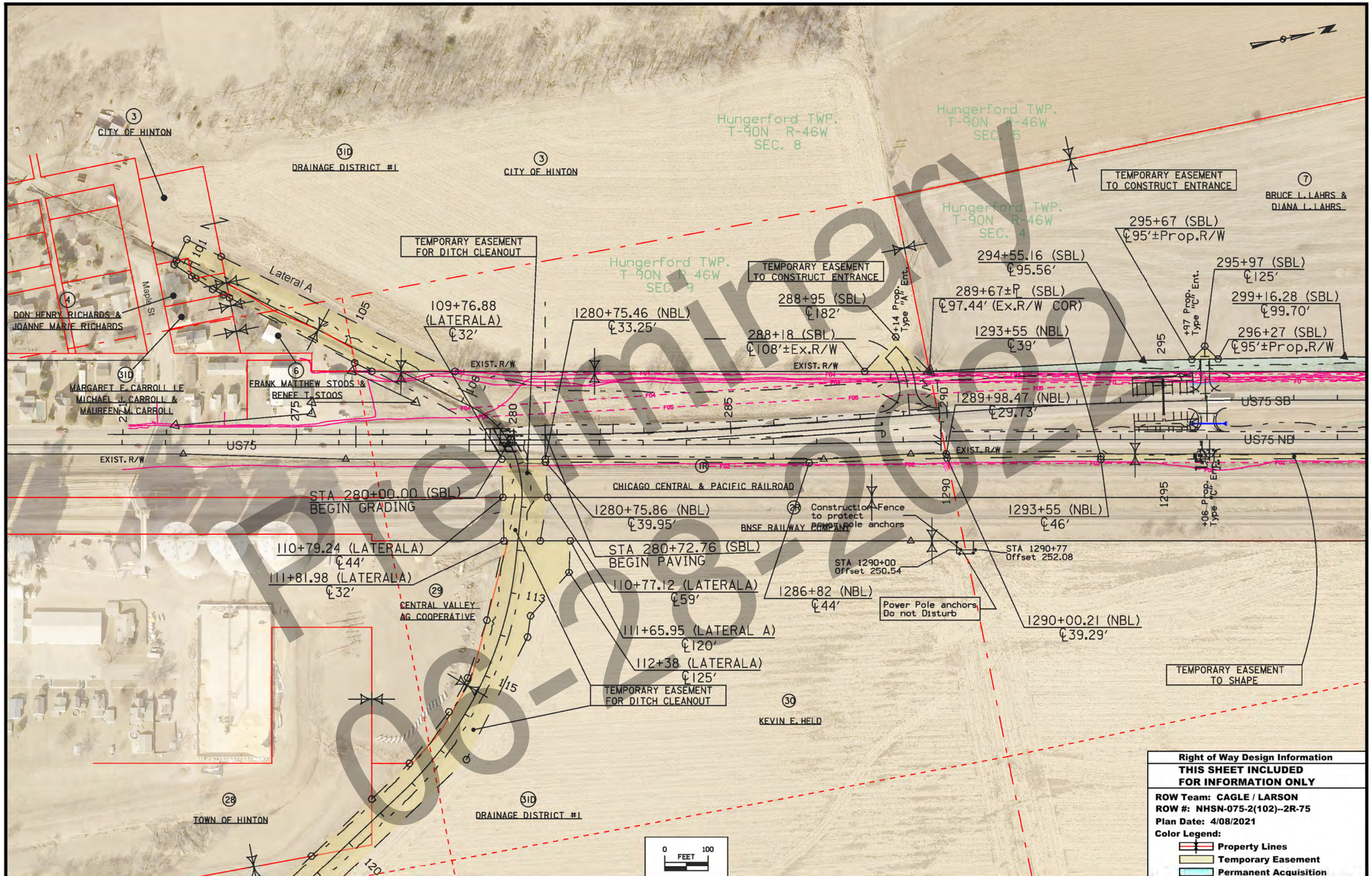
101-18
04-19-11

SUPERELEVATION DATA

See PV-300 Series

Road Identification	Circular Curve or Spiral Curve Name	Radius	Superelevation Data			Standard Road Plan	Section A-A	Section B-B	Section C-C	Section D-D	Section E-E	Section F-F	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
			e	L	x														
		FT	%	FT	FT														
US 75 NBL	C3	2865	5.0	210	84	PV-302	1338+04.55	1338+88.55	1339+72.55	1340+98.55			1340+35.55			1340+56.55	1340+56.55		
							1348+01.29	1347+17.29	1346+33.29	1345+07.29			1345+70.29			1345+49.29	1345+49.29		
US 75 NBL	C4	2865	5.0	210	84	PV-302	1593+67.52	1594+51.52	1595+35.52	1596+61.52			1595+98.52			1596+19.52	1596+19.52		
							1603+29.84	1602+45.84	1601+61.84	1600+35.84			1600+98.84			1600+77.84	1600+77.84		

Preliminary
06-28-2022



Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.1

10:44:58 AM 2/9/2022 jlarso1 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7507503016\ROW\75075102.sht

Hungerford TWP.
T-90N R-46W
SEC. 5

Hungerford TWP.
T-90N R-46W
SEC. 4

7
BRUCE L. LAHRS &
DIANA L. LAHRS

8
FLOYD VIEW FARMS, LLC

299+16.28 (SBL)
℄99.70'

306+24
℄85'

316+43±P
℄90'

320+04
℄95'

328+62±P
℄90'

300 305 310 315 320 325

+00 Prop. Type "C" Ent.

EXIST. R/W

US75 SB

US75 NB

1300+95 (NBL)
℄39'

1319+70 (NBL)
℄43'

1300+95 (NBL)
℄43'

1319+70 (NBL)
℄60'

1321+03 (NBL)
℄47'

1300 1305 1320 1325

1R
CHICAGO CENTRAL & PACIFIC RAILROAD

2R
BNSF RAILWAY COMPANY

TEMPORARY EASEMENT
TO SHAPE

TEMPORARY EASEMENT
TO SHAPE

1328+30.90 (R/W COR)(NBL)
℄39.31'

ALL STATION CALLS THIS
SHEET ARE REFERENCED
TO CHAIN SBL UNLESS
NOTED OTHERWISE

0 100
FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: CAGLE / LARSON
ROW #: NHSN-075-2(102)--2R-75
Plan Date: 1/20/2021
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.2

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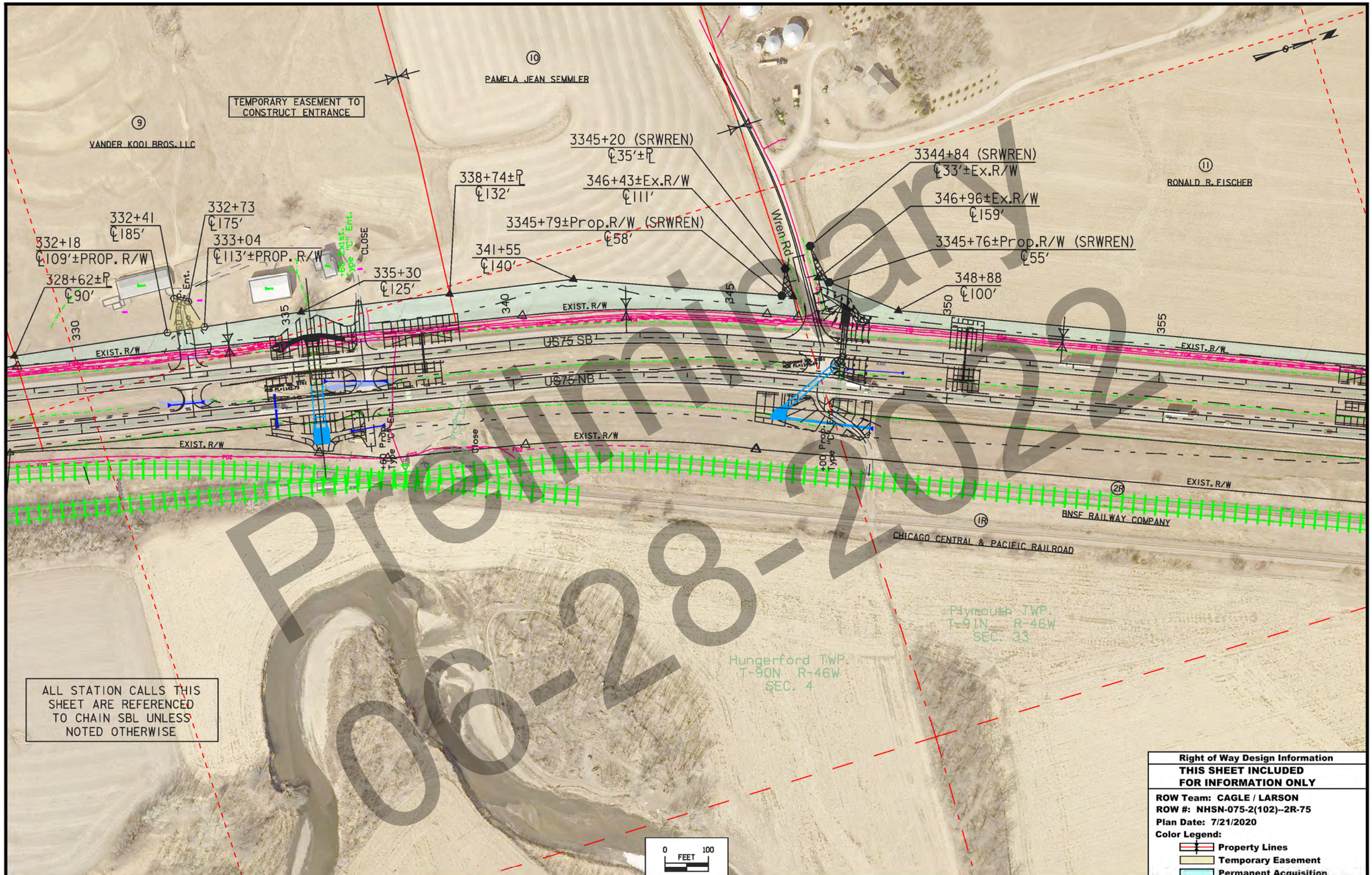

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.3

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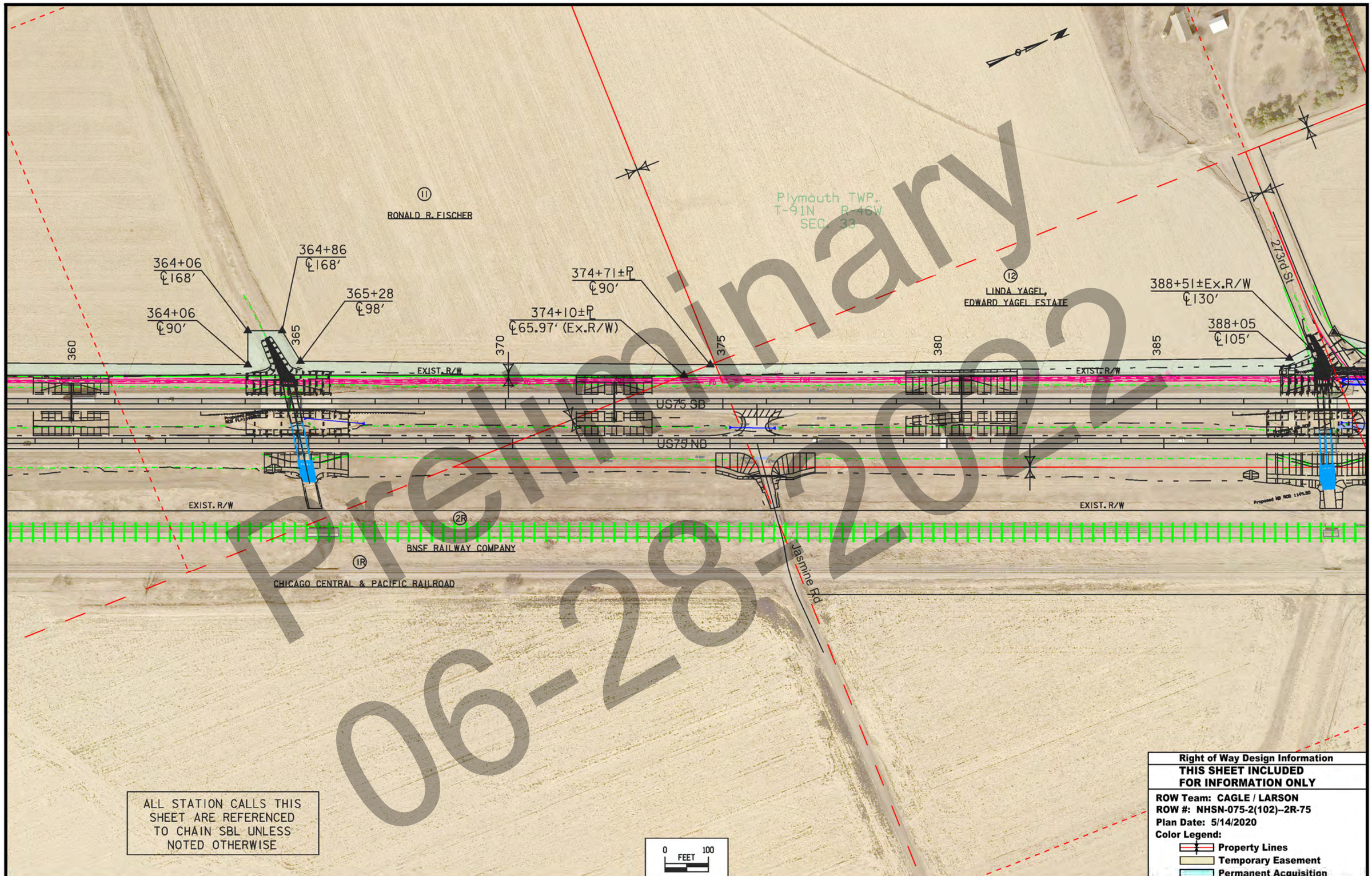


Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.4

10:29:30 AM 2/24/2022 jlarso1 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7507503016\ROW\75075102.sht

Plymouth TWP.
T-91N R-46W
SEC. 33

Plymouth TWP.
T-91N R-46W
SEC. 28

13
DAVID J. KUNKEL

14
DALE R. VANDER KOOI
REVOCABLE LIVING TRUST

273rd St

270th St

389+08.60 (Ex.R/W COR)
℄164'±Ex.R/W

391+12
℄95'

5401+24 (SR270)
℄23'±Ex.R/W

5402+19±Prop.R/W (SR270)
℄41'

402+11
℄95'

402+83±Ex.R/W
℄111'

403+52±Ex.R/W
℄117'

404+47
℄95'

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

413+50
℄98'

413+09
℄98'

414+00
℄145'

414+50
℄98'

418+21
℄98'

+05 Prop. Type "C" Ent.

390
395
400
405
410
415

EXIST. R/W

US75 SB

US75 NB

+75 Prop. Type "C" Ent.

+88 Prop. Type "C" Ent.

2R
BNSF RAILWAY COMPANY

1R
CHICAGO CENTRAL & PACIFIC RAILROAD

1405+82 (NBL)
℄154.51'

1403+00 (NBL)
℄154.50'

1404+59.42 (NBL)
℄182'

1405+05 (NBL)
℄182'

1403+28 (NBL)
℄182'

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

Plymouth TWP.
T-91N R-46W
SEC. 33

Plymouth TWP.
T-91N R-46W
SEC. 28

ALL STATION CALLS THIS
SHEET ARE REFERENCED
TO CHAIN SBL UNLESS
NOTED OTHERWISE

0 FEET 100

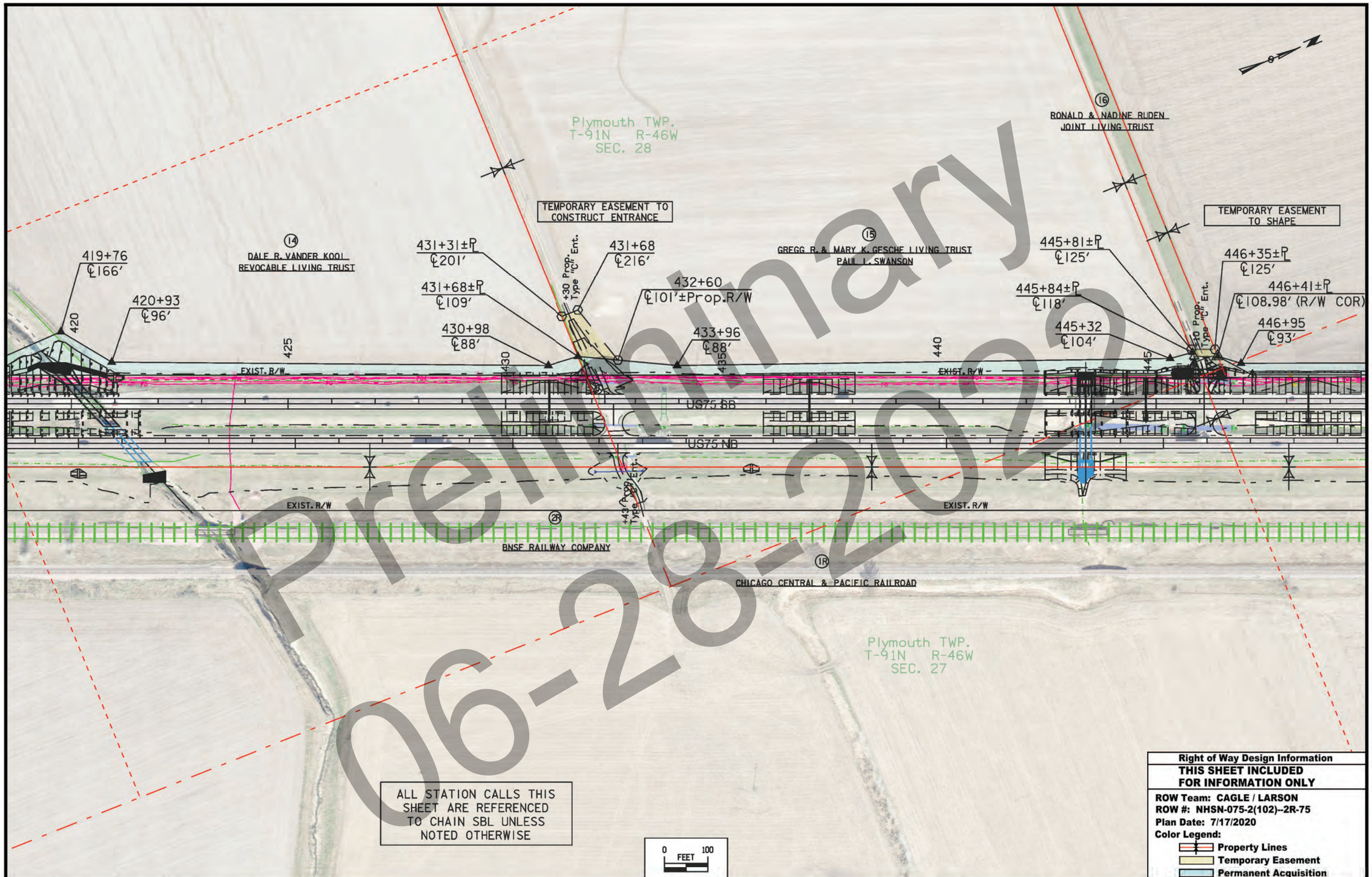
Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: CAGLE / LARSON
ROW #: NHSN-075-2(102)--2R-75
Plan Date: 5/14/2020
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

Preliminary
06-28-2024

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.5

2:48:26 PM 5/13/2020 gcagle pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\7507503016\ROW\75075102.sht



Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.6

12:38:11 PM 7/17/2020 gcagle pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Projects\7507503016\ROW\75075102.sht

Plymouth TWP.
T-91N R-46W
SEC. 28

Plymouth TWP.
T-91N R-46W
SEC. 27

Plymouth TWP.
T-91N R-46W
SEC. 22

Plymouth TWP.
T-91N R-46W
SEC. 22

17
SHIRLEY SCHROEDER
REVOCABLE TRUST

18
CLARK FAMILY REVOCABLE TRUST

19
JOAN M. JOHNSON FAMILY TRUST
CLARK JOHNSON
MITCHELL JOHNSON
KIM JAUER

260th St

459+56±Ex.R/W
℄140'

458+37
℄95'

460+09±Ex.R/W
℄186'

461+41
℄105'

474+29±R
℄95'

450
455
458
462
465
470
475

EXIST. R/W

US75 SB

US75 NB

+94 Prop. Lt.
Type 10 Pole

EXIST. R/W

EXIST. R/W

2R
BNSF RAILWAY COMPANY

1R
CHICAGO CENTRAL & PACIFIC RAILROAD

ALL STATION CALLS THIS SHEET ARE REFERENCED TO CHAIN SBL UNLESS NOTED OTHERWISE

0 FEET 100

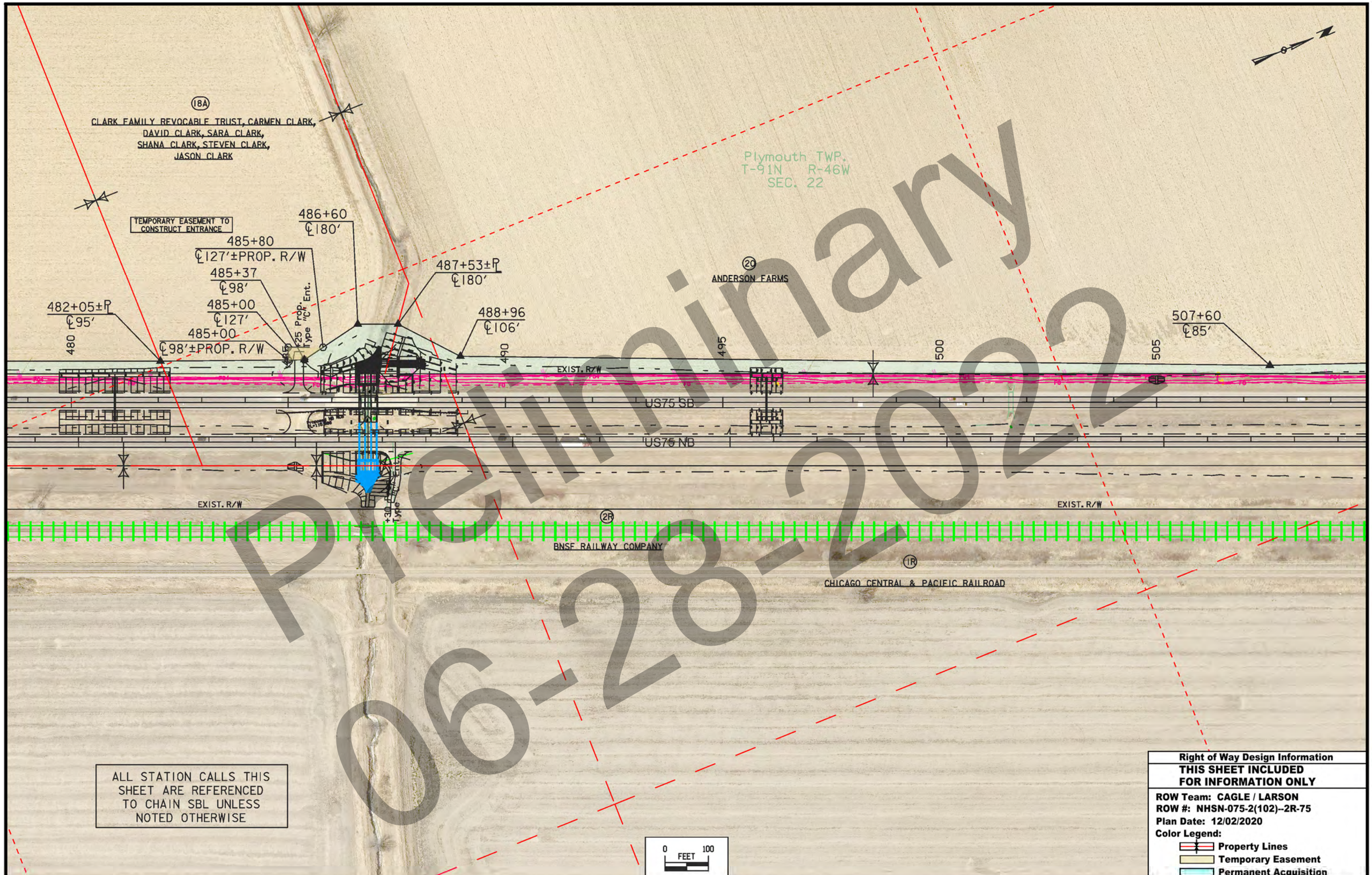
Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: CAGLE / LARSON
ROW #: NHSN-075-2(102)--2R-75
Plan Date: 12/02/2020
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.7



Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.8

11:51:22 AM 5/12/2022 jlarso1 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7507503016\ROW\75075102.sht

Plymouth TWP.
T-91N R-46W
SEC. 22

Plymouth TWP.
T-91N R-46W
SEC. 15

20
ANDERSON FARMS

21
CARDINAL ACRES LLC

7514+74 (SRJADE)
℄26'±Ex.R/W

516+08±Ex.R/W
℄104'

7515+45±Prop.R/W (SRJADE)
℄52'

517+67±Ex.R/W
℄100'

534+90
℄85'

Jade Ave

510 515 520 525 530 535

EXIST. R/W

US75 SB

US75 NB

EXIST. R/W

EXIST. R/W

2R
BNSF RAILWAY COMPANY

1R
CHICAGO CENTRAL & PACIFIC RAILROAD

ALL STATION CALLS THIS SHEET ARE REFERENCED TO CHAIN SBL UNLESS NOTED OTHERWISE

Plymouth TWP.
T-91N R-46W
SEC. 22

Plymouth TWP.
T-91N R-46W
SEC. 15

0 FEET 100

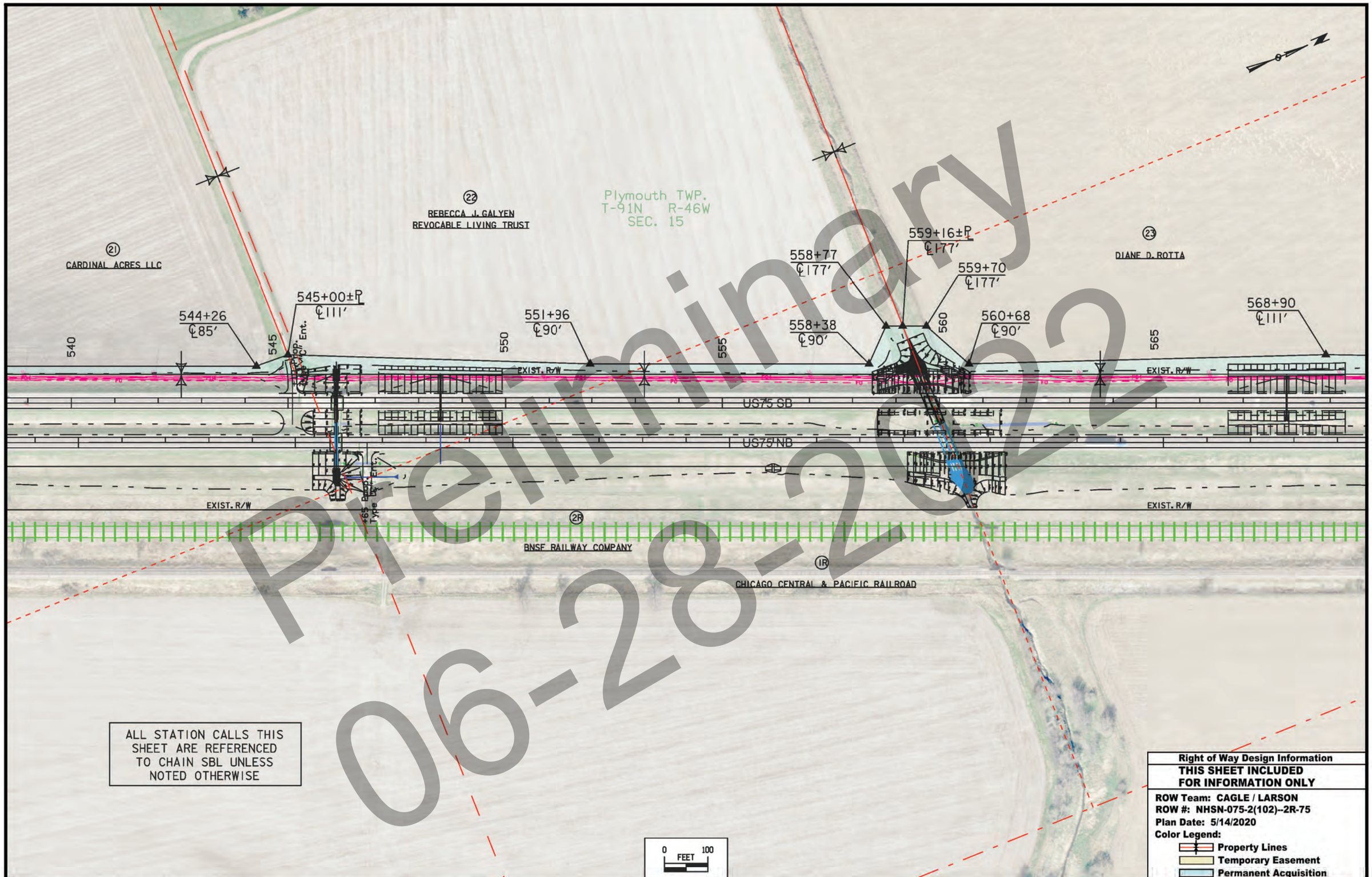
Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: CAGLE / LARSON
ROW #: NHSN-075-2(102)--2R-75
Plan Date: 5/14/2020
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.9



Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.10

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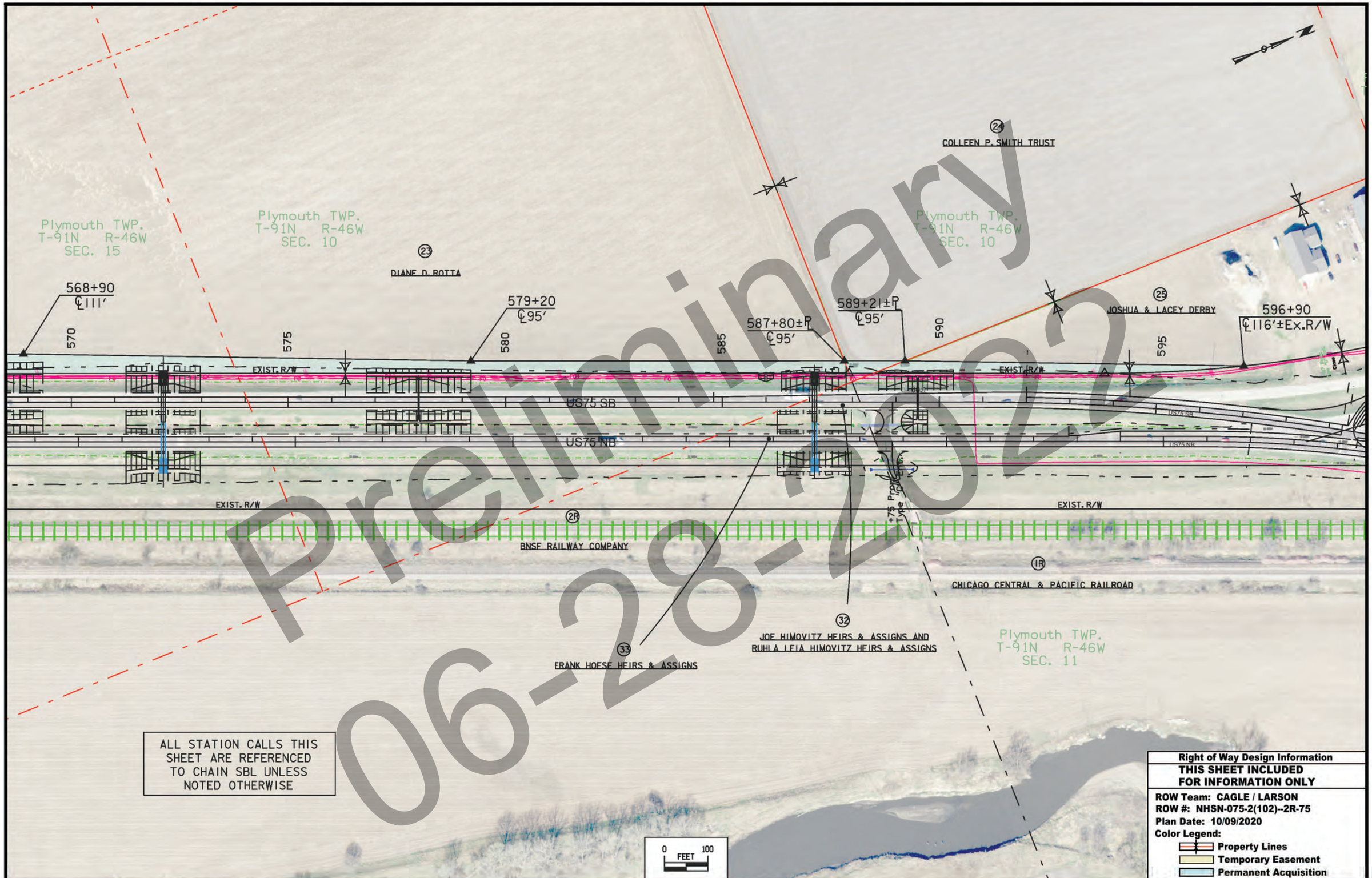

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.11

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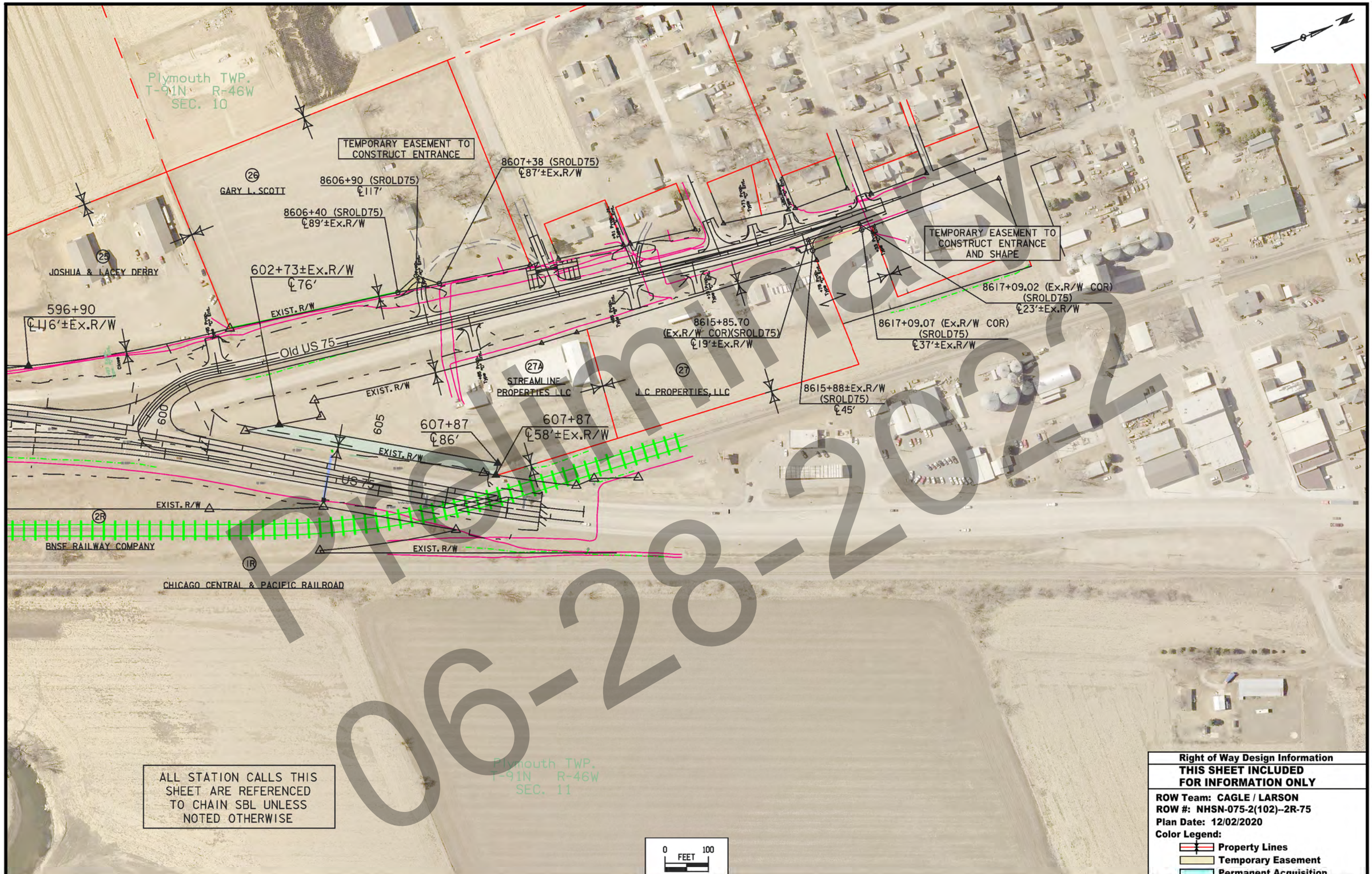


Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: CAGLE / LARSON
ROW #: NHSN-075-2(102)--2R-75
Plan Date: 12/02/2020
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM Holst \ Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER H.12

2:36:57 PM 1/6/2022 acarman pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7507503016\ROW\75075102.sht

SURVEY SYMBOLS

- TP — TPD Telephone Pedestal
- EB — EB Electrical Box
- DU Centerline Draw or Stream (Up)
- D Centerline Draw or Stream (Down)
- EW Edge of Water
- RIP Rip-Rap

UTILITY LEGEND

- MidAmerican Energy
- Nuetral Path
- MCI Fiber
- Premier Communications
- Century Link
- Fiber Net
- Century Link
- City Water
- MidAmerican Energy

PLAN VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Purple (Halo)	(15)	Backslope Drains
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Brown, Light	(236)	Core Out

PROFILE VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Blue	(1)	Proposed Alignment, Stationing, and Alignment Annotation
Green	(2)	Existing Ground Line Profile
Green, Med	(227)	Topsoil
Green, Med	(227)	Slope Dressing Only
Orange	(6)	Loam
Brown, Dark	(238)	Class 10
Brown, Med	(237)	Sand
Red	(3)	Unsuitable A
Pink, Dark	(13)	Unsuitable B
Pink	(11)	Unsuitable C
Red	(3)	Shale
Red	(3)	Waste
Gray, Light	(48)	Broken and Weathered Rock
Gray, Med	(80)	Rock
Gray, V.Dark	(128)	Boulders

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

- Drill
- H_2O — Water
- DRY — Dry
- Sample
- Plugged
- M — Moisture
- Shelby
- Blow Count
- Dens. Core
- Dig/Core
- Treatment
- Sand Blanket
- Soil Remediation Area
- Select Soil
- Select Sand
- Slope Dressing Only
- Broken and Weathered Rock
- Rock
- Cone Penetration Test (CPT)
- Sandstone
- Unsuitable A
- Unsuitable B
- Unsuitable C
- Sandy Soil
- Boulders
- Shale
- Waste

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C — Access Control

NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

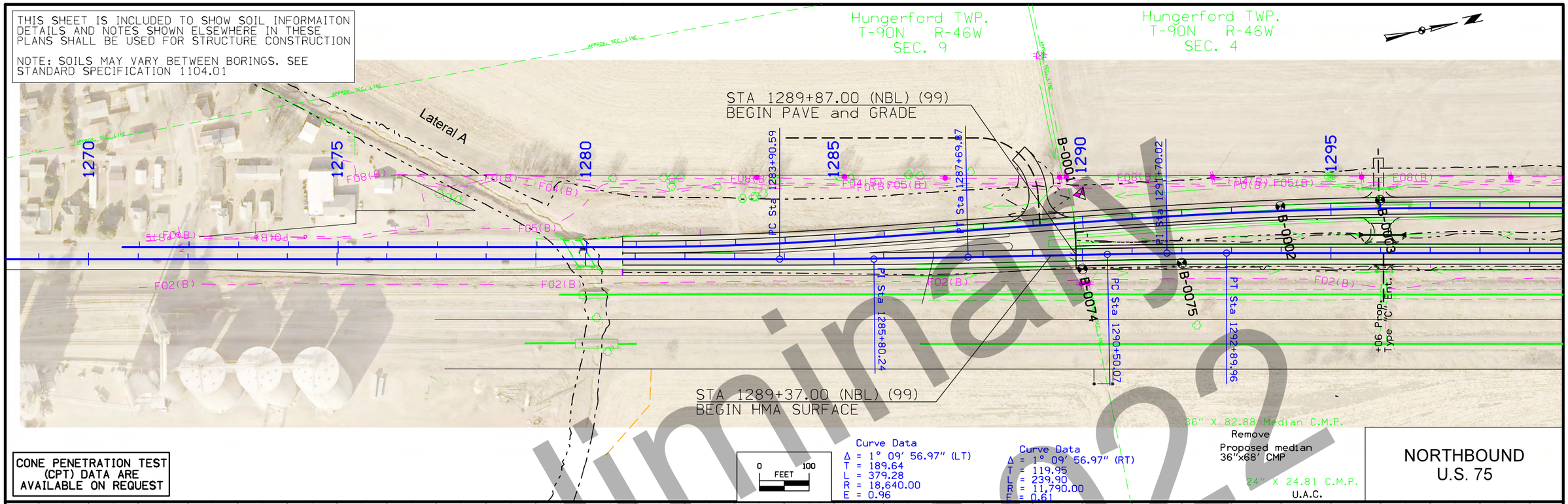
SOILS LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES Q)

Preliminary 06-28-2022

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01

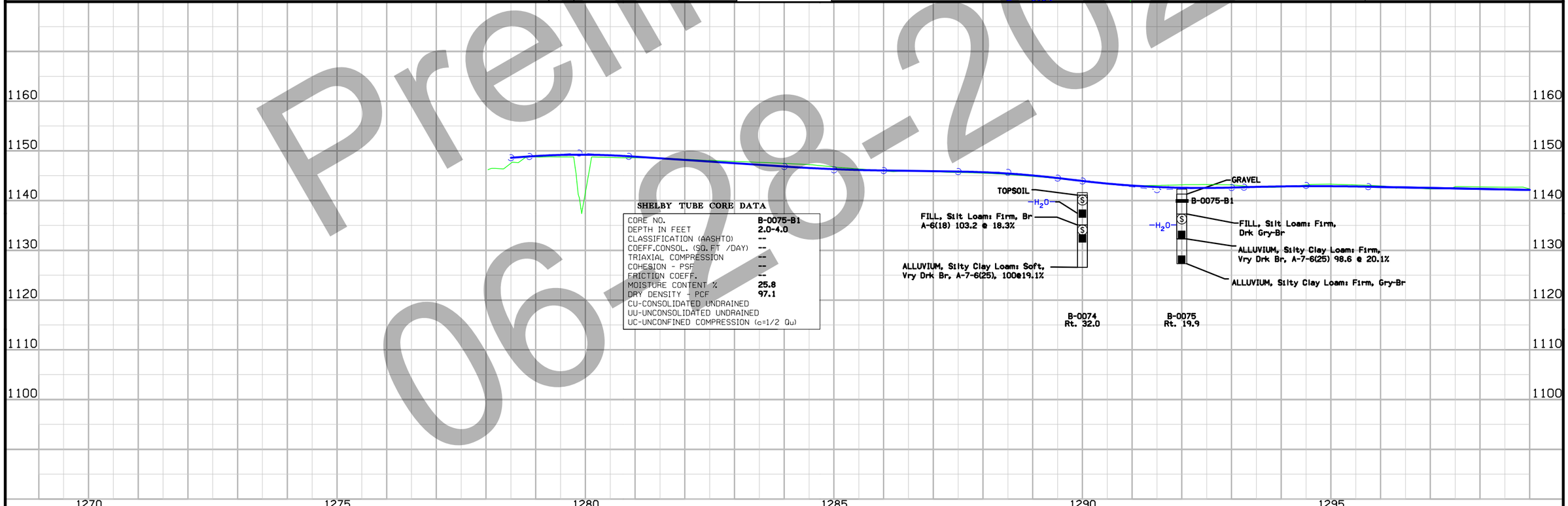


Curve Data
Δ = 1° 09' 56.97" (LT)
T = 189.64
L = 379.28
R = 18,640.00
E = 0.96

Curve Data
Δ = 1° 09' 56.97" (RT)
T = 119.95
L = 239.90
R = 11,790.00
E = 0.61

NORTHBOUND
U.S. 75

CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST



SHELBY TUBE CORE DATA

CORE NO.	B-0075-B1
DEPTH IN FEET	2.0-4.0
CLASSIFICATION (AASHTO)	--
COEFF.CONSOL. (SQ.FT /DAY)	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	25.8
DRY DENSITY - PCF	97.1

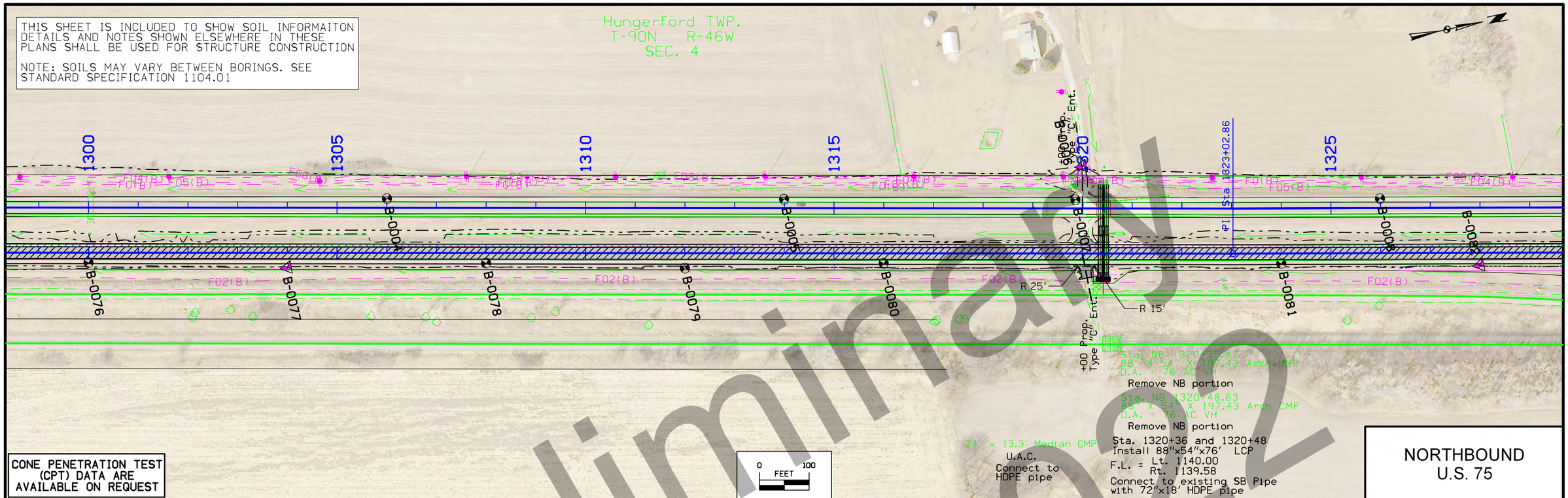
CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.2

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



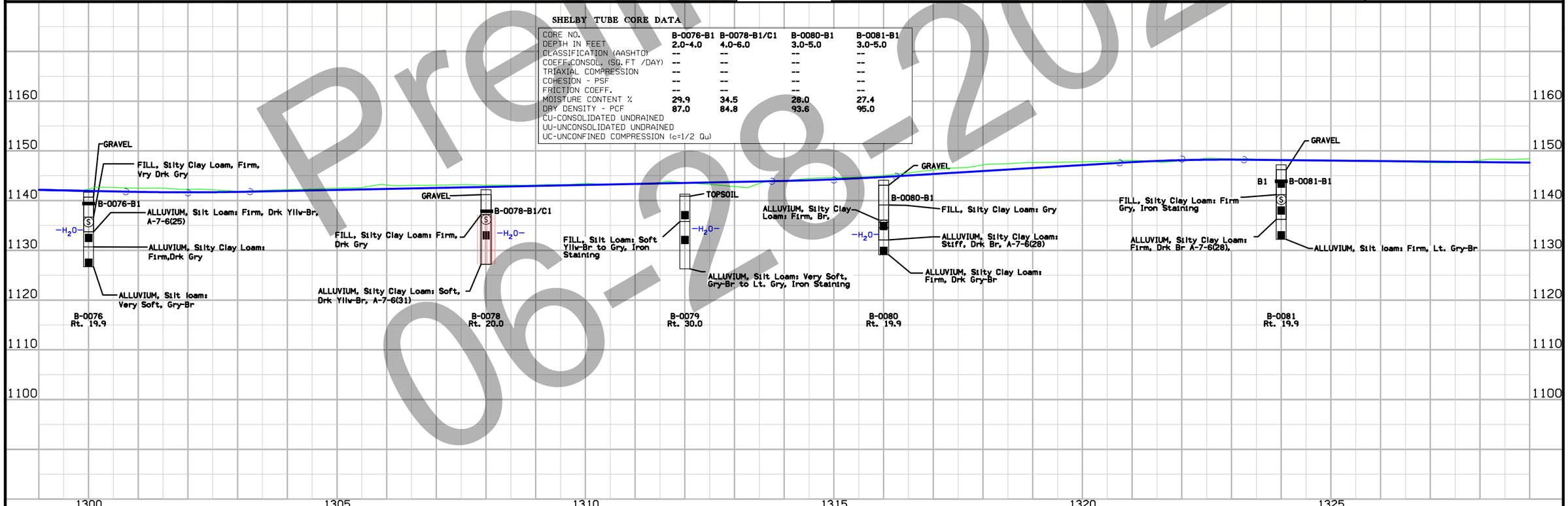
CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

NORTHBOUND U.S. 75

SHELBY TUBE CORE DATA

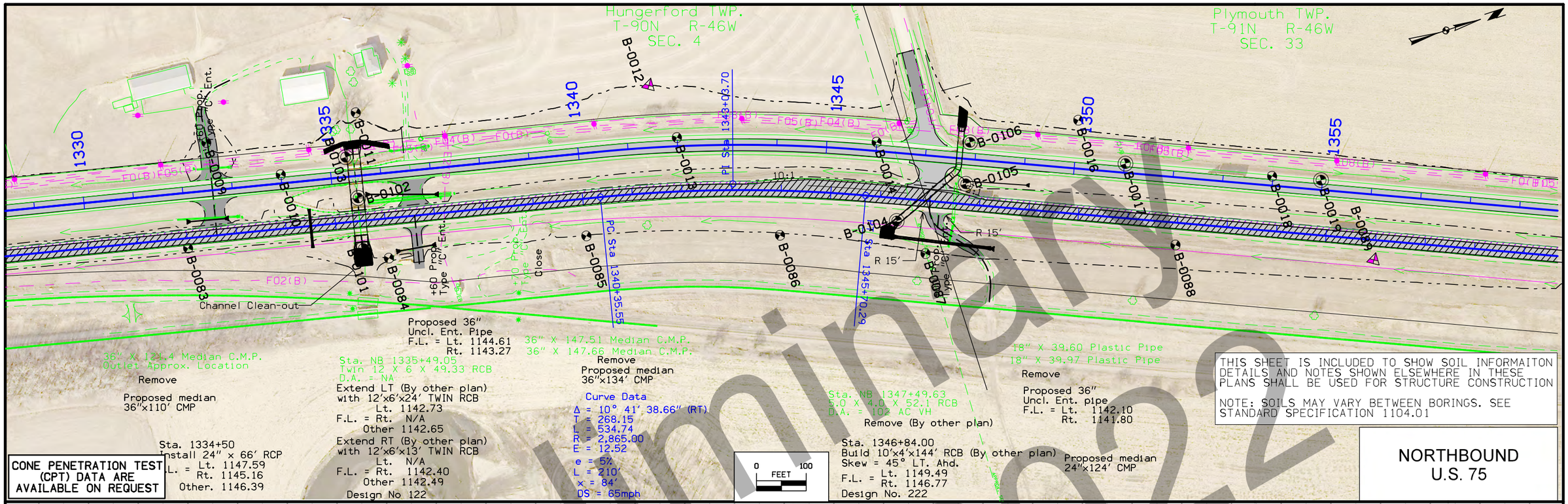
CORE NO.	B-0076-B1	B-0078-B1/C1	B-0080-B1	B-0081-B1
DEPTH IN FEET	2.0-4.0	4.0-6.0	3.0-5.0	3.0-5.0
CLASSIFICATION (AASHTO)	--	--	--	--
COEFF.CONSOL. (SQ.FT /DAY)	--	--	--	--
TRIAXIAL COMPRESSION	--	--	--	--
COHESION - PSF	--	--	--	--
FRICTION COEFF.	--	--	--	--
MOISTURE CONTENT %	29.9	34.5	28.0	27.4
DRY DENSITY - PCF	87.0	84.8	93.6	95.0

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)



Preliminary 06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.3

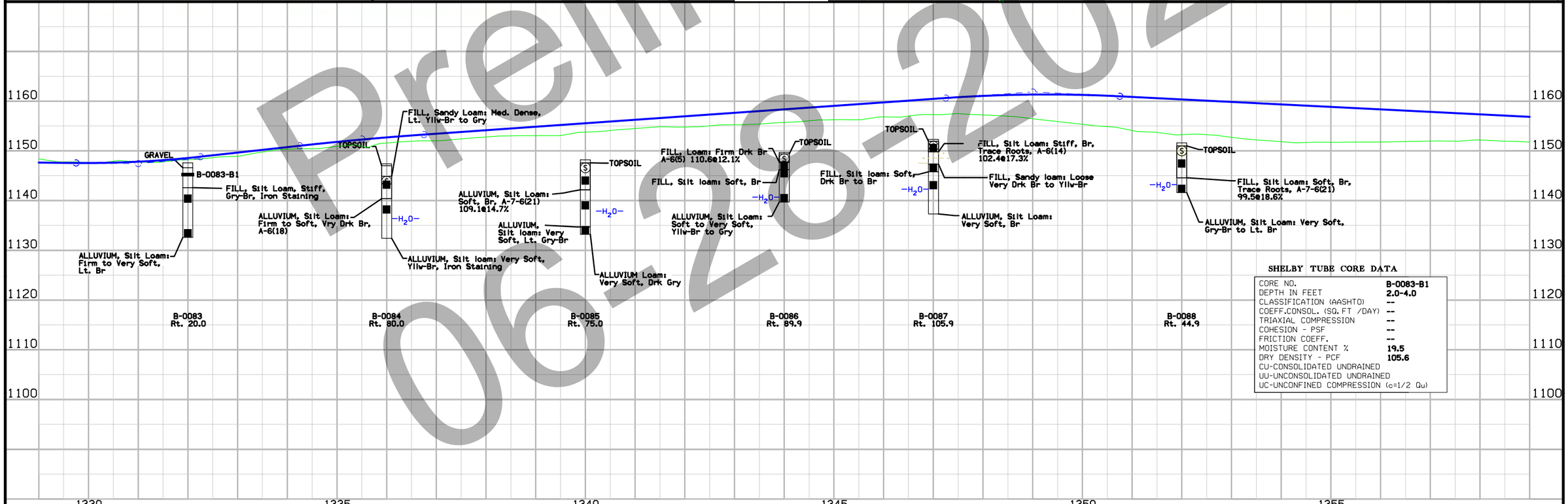


CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01

NORTHBOUND
U.S. 75



SHELBY TUBE CORE DATA

CORE NO.	B-0083-B1
DEPTH IN FEET	2.0-4.0
CLASSIFICATION (AASHTO)	--
COEFF.CONSOL. (SQ.FT /DAY)	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	19.5
DRY DENSITY - PCF	105.6

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary
06-28-2022

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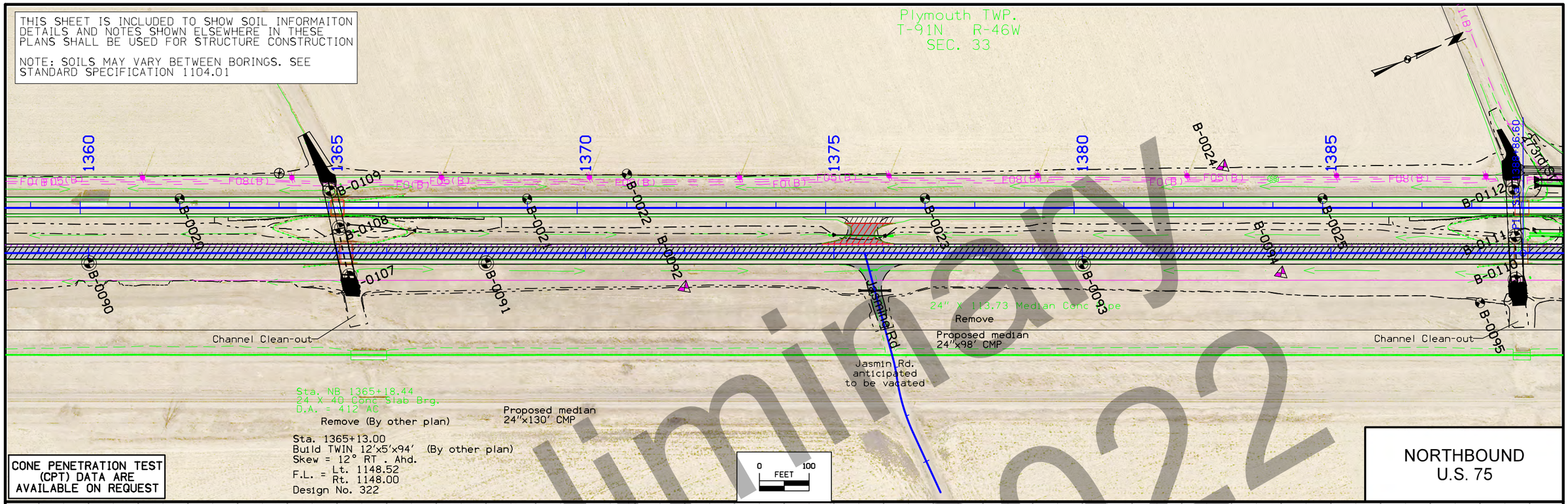
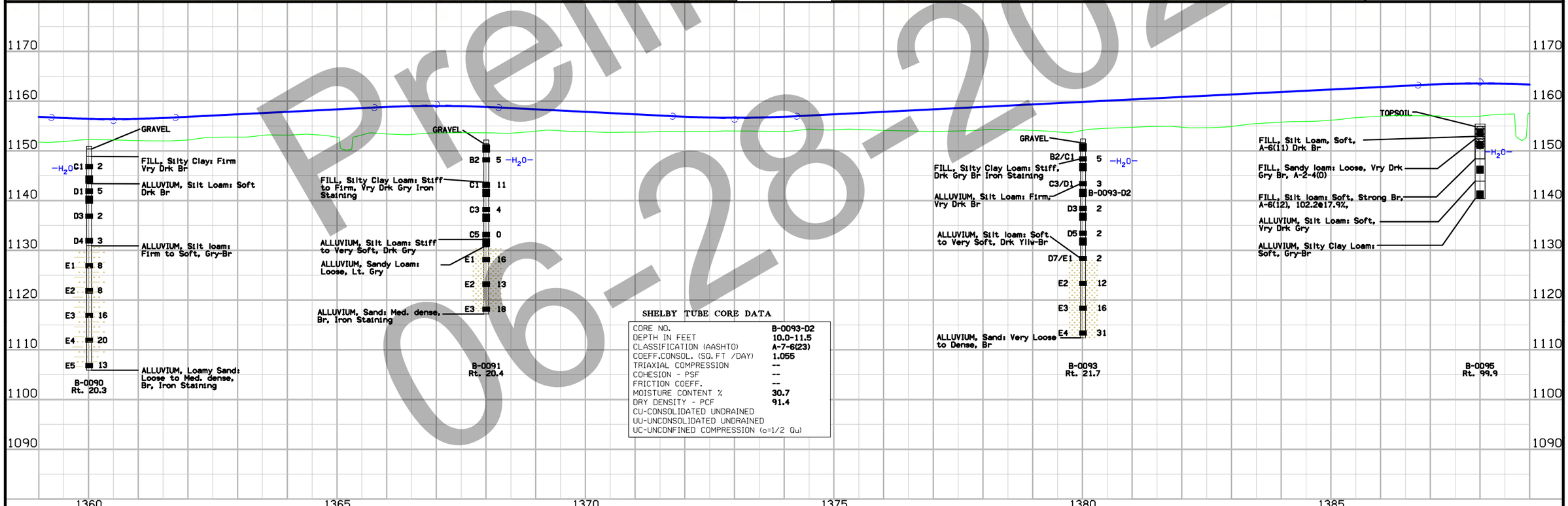


CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST



SHELBY TUBE CORE DATA

CORE NO.	B-0093-D2
DEPTH IN FEET	10.0-11.5
CLASSIFICATION (AASHTO)	A-7-6(23)
COEFF.CONSOL. (SQ.FT /DAY)	1.055
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	30.7
DRY DENSITY - PCF	91.4

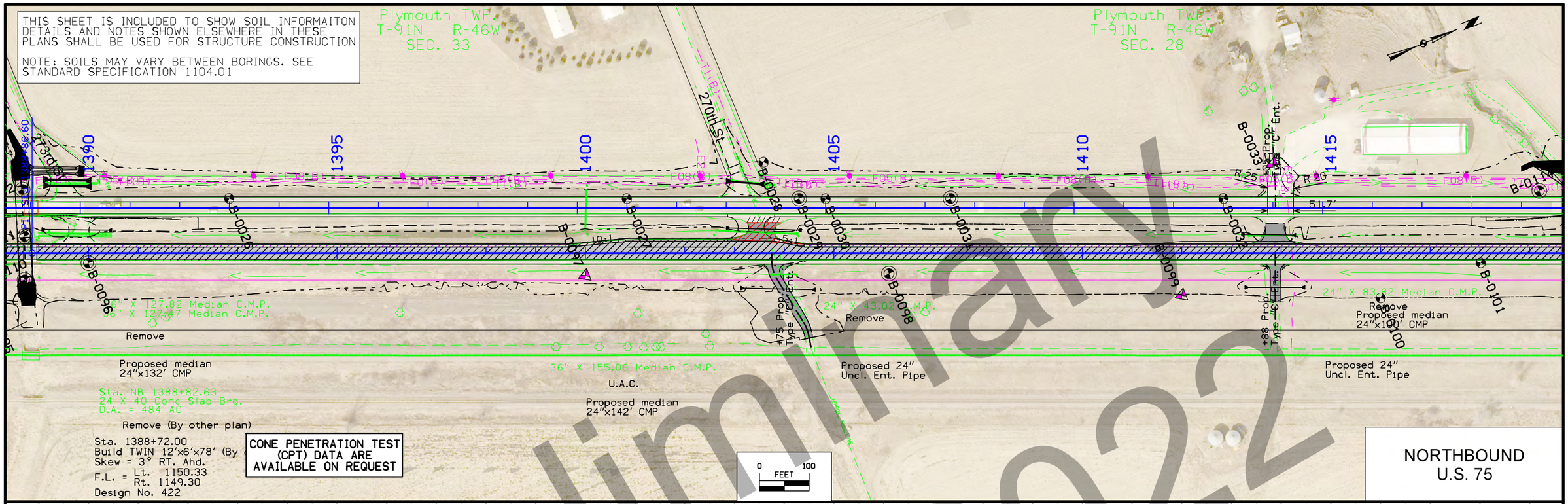
CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary 06-28-2022

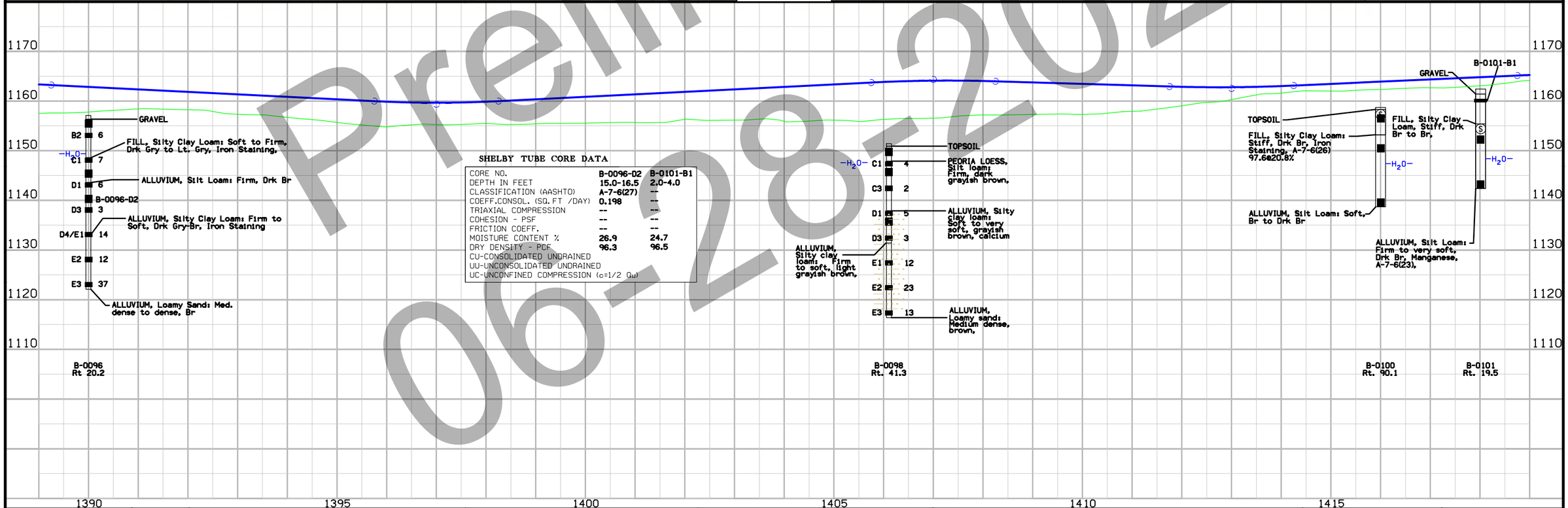
FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.5

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST



SHELBY TUBE CORE DATA

CORE NO.	B-0096-D2	B-0101-B1
DEPTH IN FEET	15.0-16.5	2.0-4.0
CLASSIFICATION (AASHTO)	A-7-6(27)	--
COEFF.CONSOL. (SQ.FT /DAY)	0.198	--
TRIAXIAL COMPRESSION	--	--
COHESION - PSF	--	--
FRICTION COEFF.	--	--
MOISTURE CONTENT %	26.9	24.7
DRY DENSITY - PCF	96.3	96.5

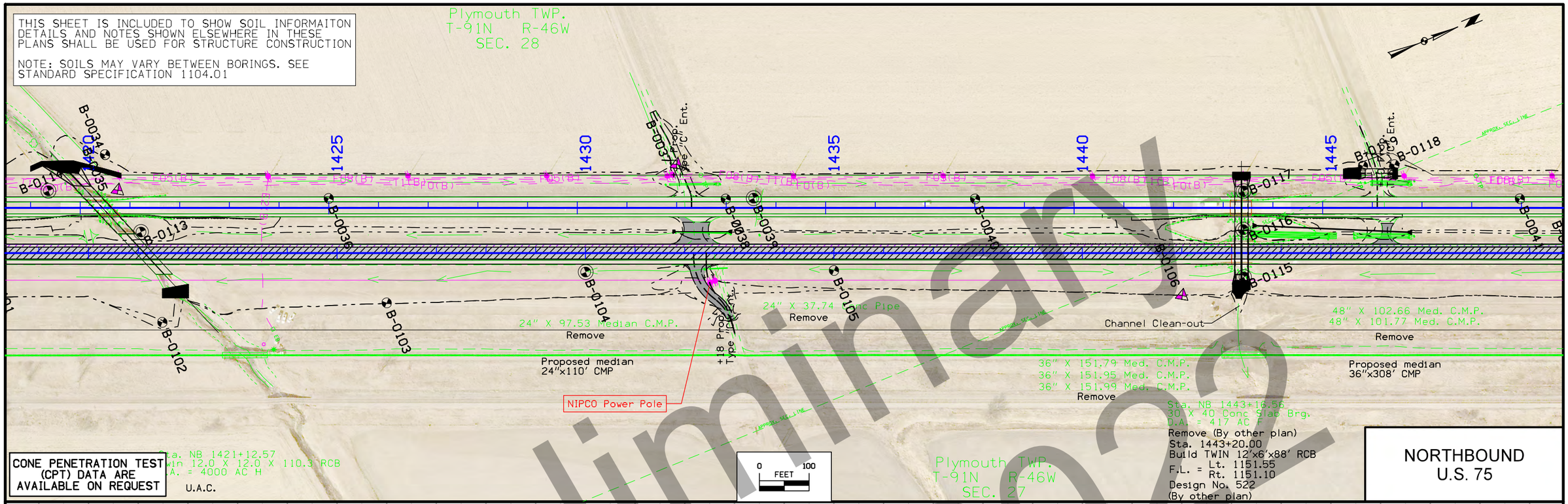
CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary
06-28-2022

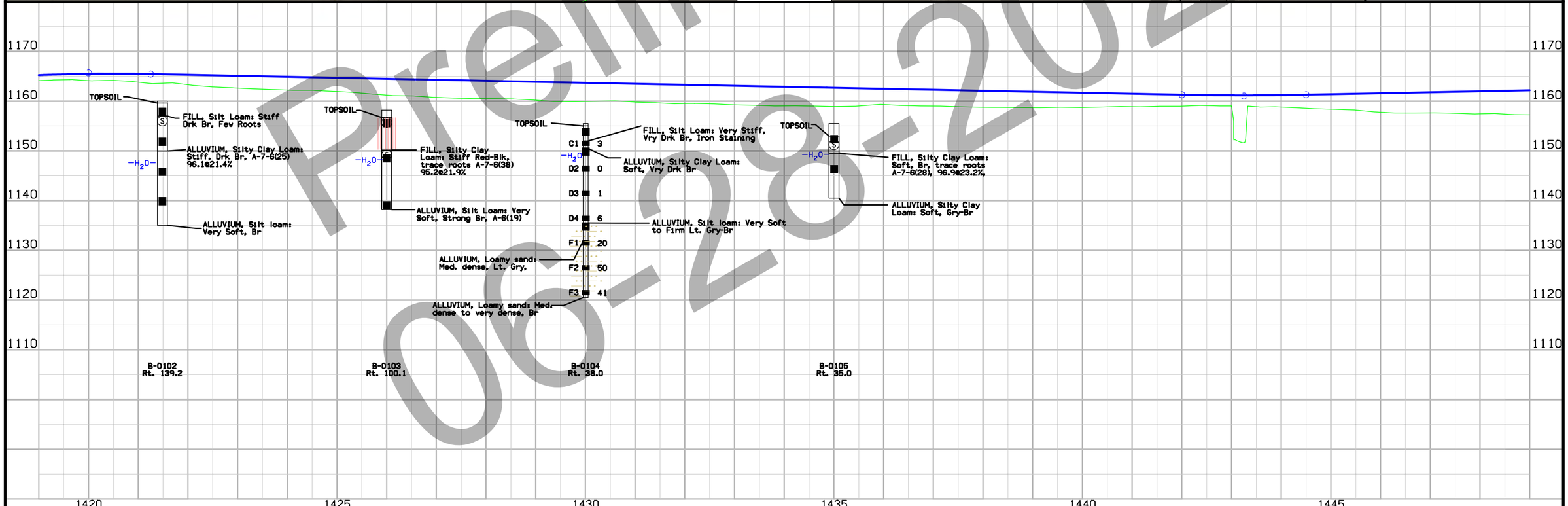
FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.6

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

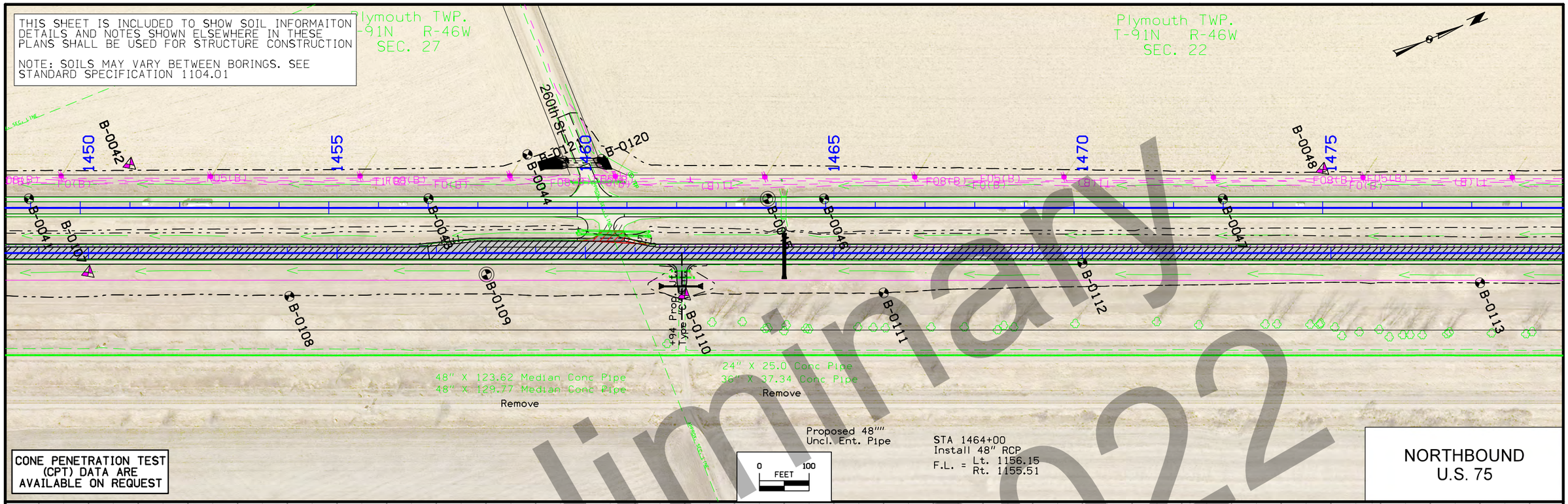


Preliminary 06-28-2022

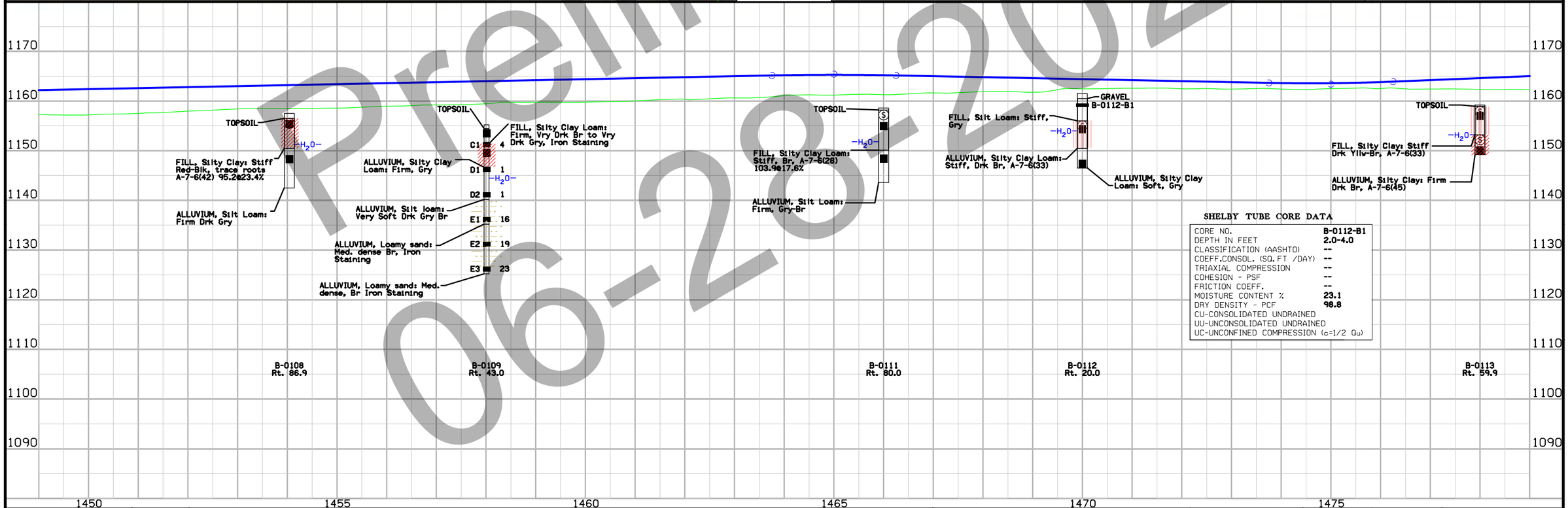
FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.7

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST



SHELBY TUBE CORE DATA

CORE NO.	B-0112-B1
DEPTH IN FEET	2.0-4.0
CLASSIFICATION (AASHTO)	--
COEFF.CONSOL. (SQ.FT /DAY)	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	23.1
DRY DENSITY - PCF	98.8

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary 06-28-2022

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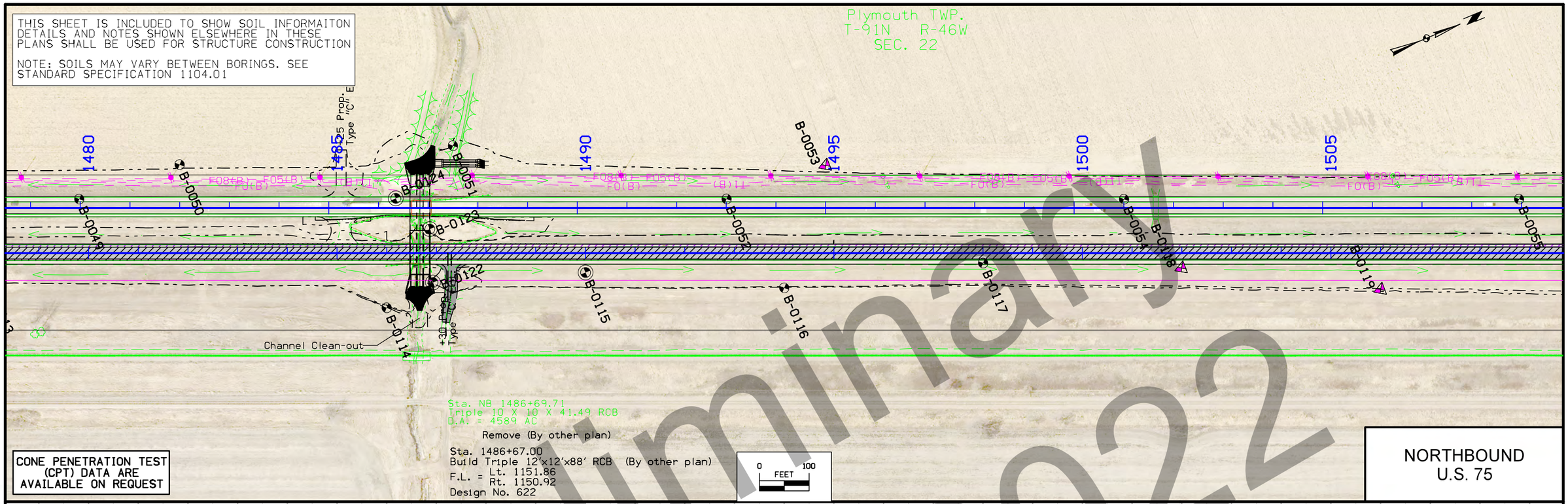
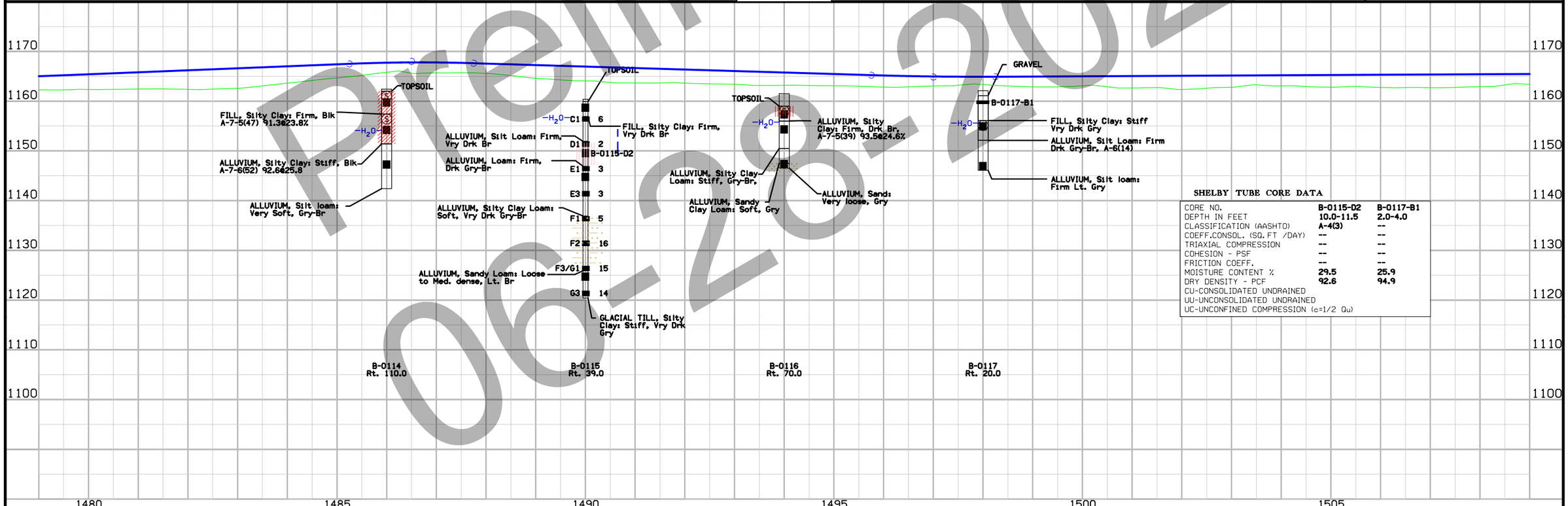
NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

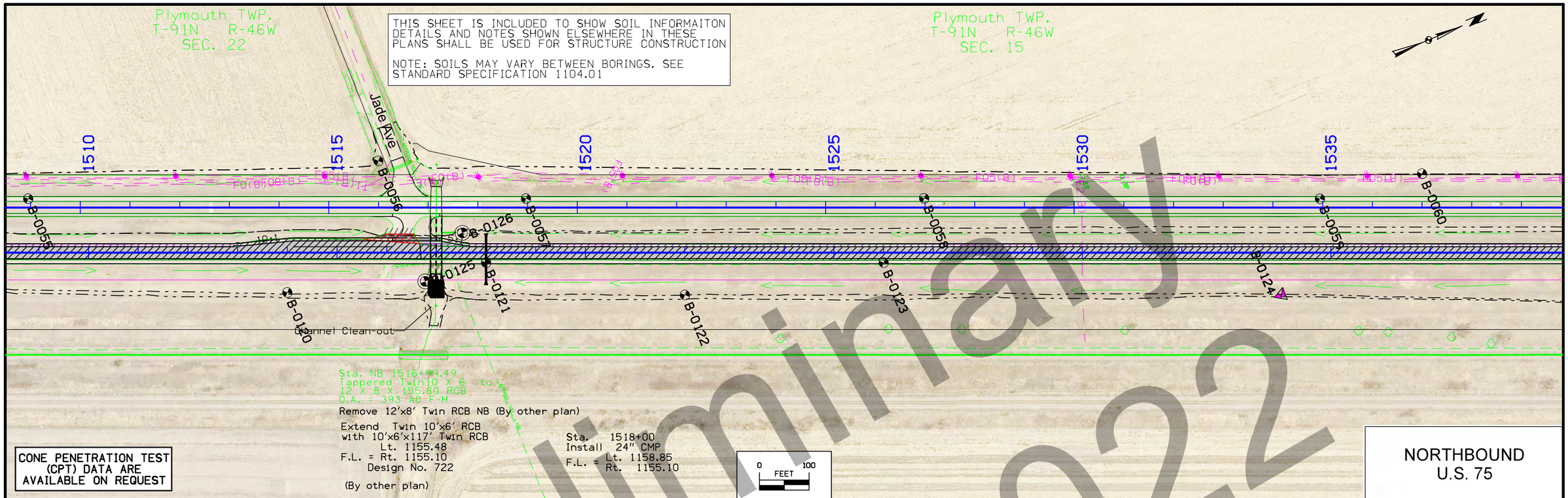


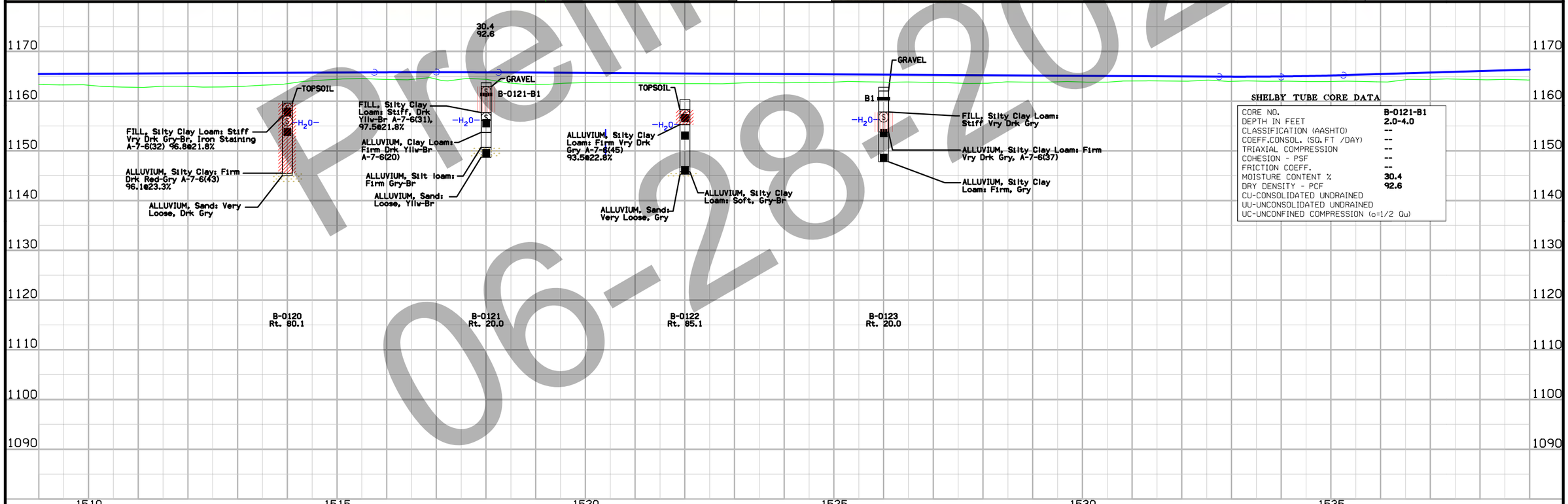
SHELBY TUBE CORE DATA

CORE NO.	B-0115-D2	B-0117-B1
DEPTH IN FEET	10.0-11.5	2.0-4.0
CLASSIFICATION (AASHTO)	A-4(3)	--
COEFF.CONSOL. (SQ.FT /DAY)	--	--
TRIAXIAL COMPRESSION	--	--
COHESION - PSF	--	--
FRICTION COEFF.	--	--
MOISTURE CONTENT %	29.5	25.9
DRY DENSITY - PCF	92.6	94.9

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary 06-28-2022





SHELBY TUBE CORE DATA

CORE NO.	B-0121-B1
DEPTH IN FEET	2.0-4.0
CLASSIFICATION (AASHTO)	--
COEFF.CONSOL. (SQ.FT /DAY)	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	30.4
DRY DENSITY - PCF	92.6

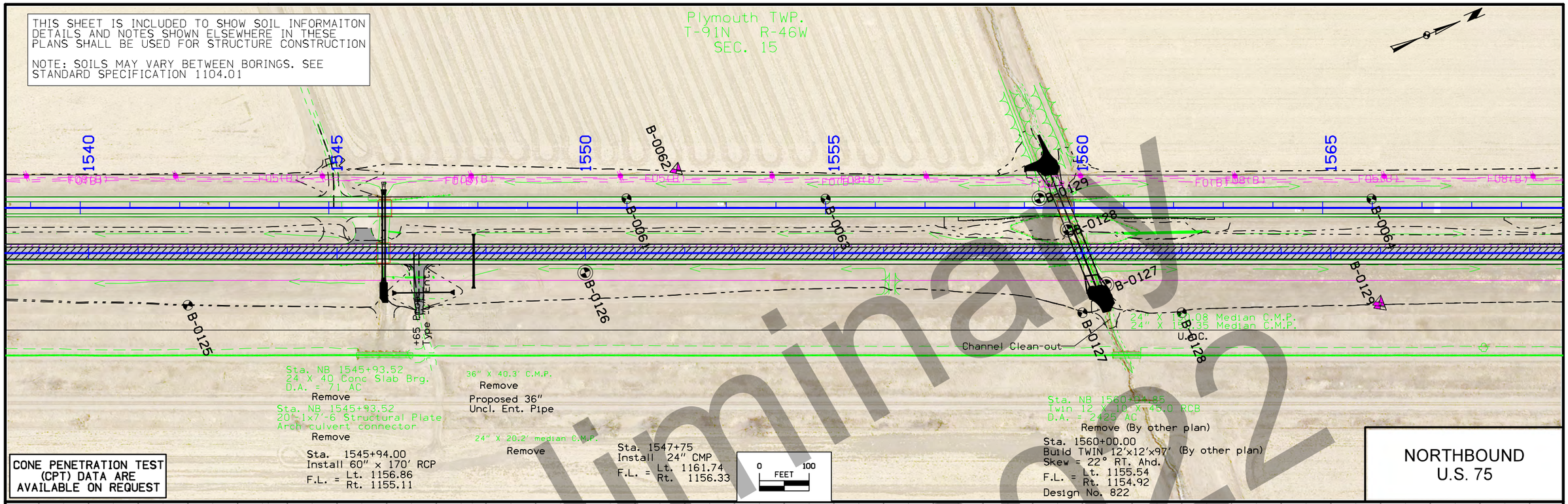
CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.10

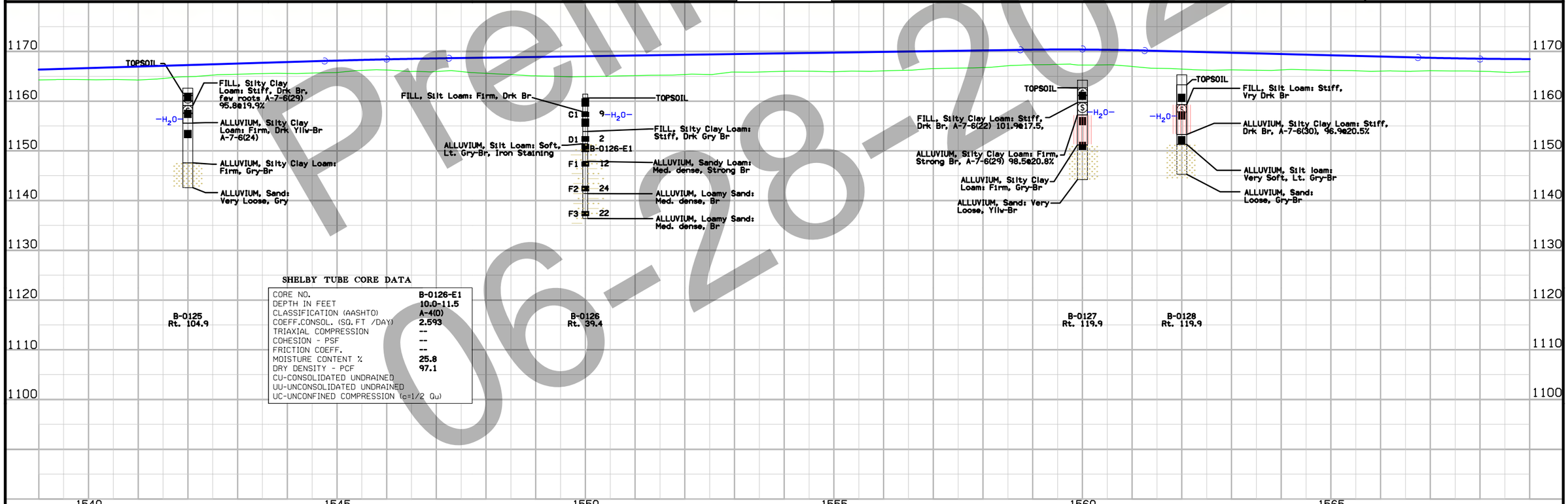
THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

NORTHBOUND
U.S. 75



SHELBY TUBE CORE DATA

CORE NO.	B-0126-E1
DEPTH IN FEET	10.0-11.5
CLASSIFICATION (AASHTO)	A-4(0)
COEFF.CONSOL. (SQ.FT /DAY)	2.593
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	25.8
DRY DENSITY - PCF	97.1

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary 06-28-2022

Sta. 1571+95.00
Build 8'x6'x88' RCB
F.L. = Lt. 1158.01
Rt. 1157.41
Design No. 922
(By other plan)

Plymouth TWP.
T-91N R-46W
SEC. 10

1570 1575 1580 1585 1590 1595

B-0130 B-0131 B-0132 B-0133 B-0134 B-0135 B-0136
B-0065 B-0066 B-0067 B-0068 B-0069

FO(B) EO5(B) FO8(B) FO5(B)

10:1

+75 Prop. Type "C" Ent.

PC Sta 1598+49.32

PC Sta 1595+98.52

48" X 58.05 Median C.M.P. w/ 36" X 25.80 Conc Pipe Extension
Remove
Proposed median 24"x102' CMP

24" X 27.73 C.M.P.
Remove
Proposed 24" Uncl. Ent. Pipe

Curve Data
Δ = 10° 00' 21.36" (RT)
T = 250.80
L = 500.32
R = 2,864.95
E = 10.96
e = 5%
L = 210'
x = 84'
DS = 65 mph

Plymouth TWP.
T-91N R-46W
SEC. 15

Sta. 1586+95 (By other plan)
Build 8'x5'x88' RCB
F.L. = Lt. 1159.51
Rt. 1159.25
Design No. 1022

Plymouth TWP.
T-91N R-46W
SEC. 11

CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

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0 FEET 100

NORTHBOUND
U.S. 75

1180 1170 1160 1150 1140 1130 1120 1110 1100

B-0130
Rt. 123.0

TOPSOIL
FILL, Silty Clay Loam: Stiff, Drk Br A-7-6(25) 102.3e17.7%
ALLUVIUM, Silt Loam: Soft, Br A-6(16), 104.3e17.1%
ALLUVIUM, Sand: Loose, Yllw-Br

B-0131
Rt. 95.0

TOPSOIL
FILL, Silty Clay Loam: Stiff, Drk Br, trace roots A-7-6(27)
ALLUVIUM, Silt Loam: Soft, Gry-Br
ALLUVIUM, Sand: Loose, Yllw-Br

B-0133
Rt. 80.0

TOPSOIL
ALLUVIUM, Silty Clay Loam: Stiff, Drk Br, trace roots A-7-6(26), 96.6e22%
ALLUVIUM, Silty Clay Loam: Firm, Drk Yllw-Br, A-7-6(28), 101.5e20.5%
ALLUVIUM, Silt loam: Very Soft, Lt. Gry-Br, Manganese
ALLUVIUM, Sand: Loose, Yllw-Br

B-0134
Rt. 15.0

GRAVEL
B-0134-B1
FILL, Silty Clay Loam: Firm Vry Drk Br, Iron Staining
ALLUVIUM, Silty Clay Loam: Firm Strong Br A-7-6(30)
ALLUVIUM, Silt loam: Soft, Gry, Iron Staining

B-0136 Shown on Q.13 For Clarity

$-H_2O-$

SHELBY TUBE CORE DATA

CORE NO.	B-0134-B1
DEPTH IN FEET	2.0-4.0
CLASSIFICATION (AASHTO)	--
COEFF.CONSOL. (SQ.FT /DAY)	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	26.2
DRY DENSITY - PCF	90.6

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

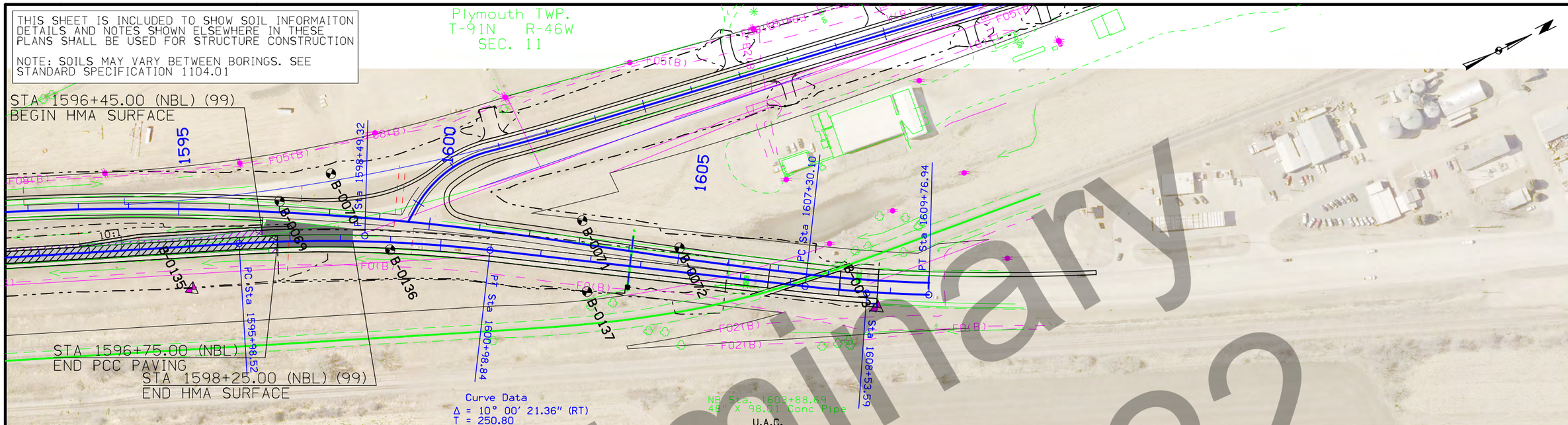
1570 1575 1580 1585 1590 1595

Preliminary 06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Megivern \ Dell \ Moyle \ Sieggreen	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER Q.12

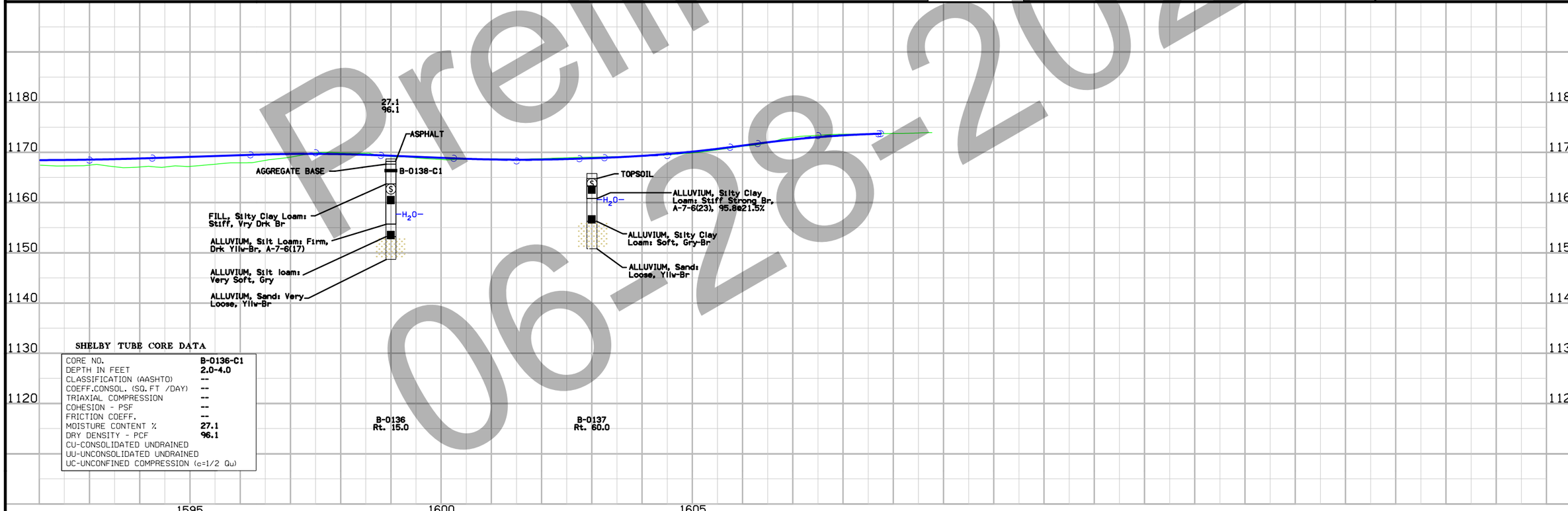
THIS SHEET IS INCLUDED TO SHOW SOIL INFORMAITON DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



CONE PENETRATION TEST (CPT) DATA ARE AVAILABLE ON REQUEST

NORTHBOUND
U.S. 75



SHELBY TUBE CORE DATA

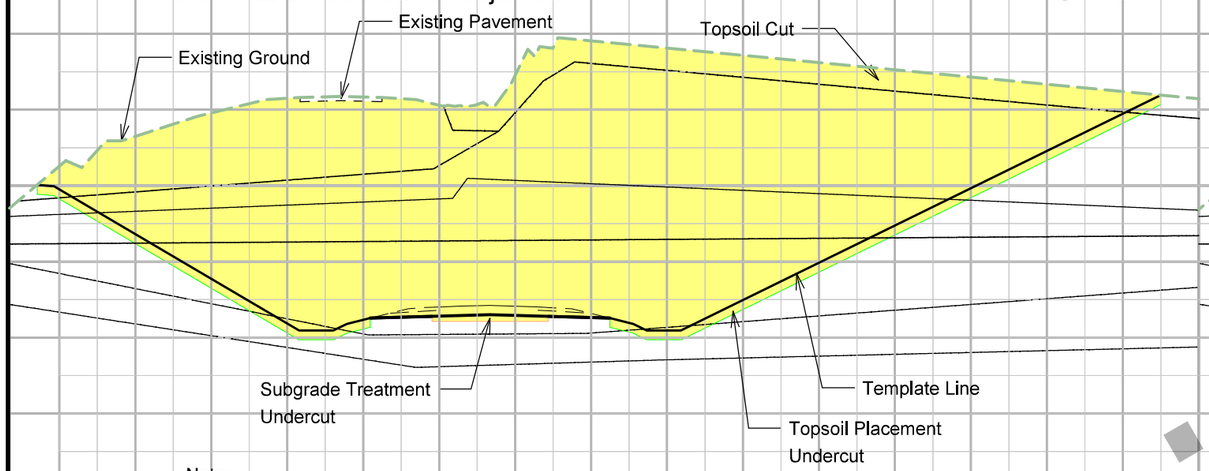
CORE NO.	B-0136-C1
DEPTH IN FEET	2.0-4.0
CLASSIFICATION (AASHTO)	--
COEFF.CONSOL. (SQ.FT /DAY)	--
TRIAXIAL COMPRESSION	--
COHESION - PSF	--
FRICTION COEFF.	--
MOISTURE CONTENT %	27.1
DRY DENSITY - PCF	96.1

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

Preliminary 06-28-2022

CUT SIDE Total Cut Unadjusted

RURAL

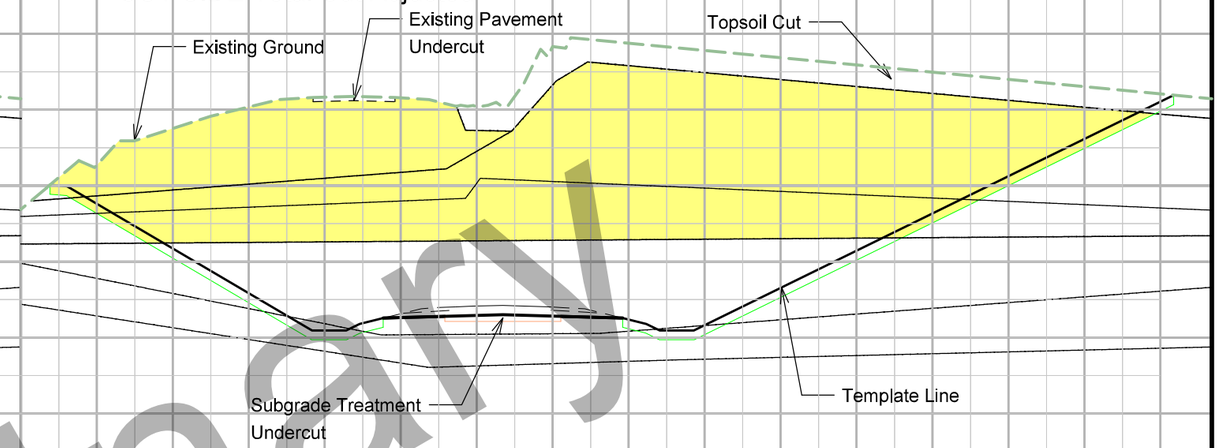


Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

Lt
Med
Rt

CUT SIDE Total Cut Adjusted



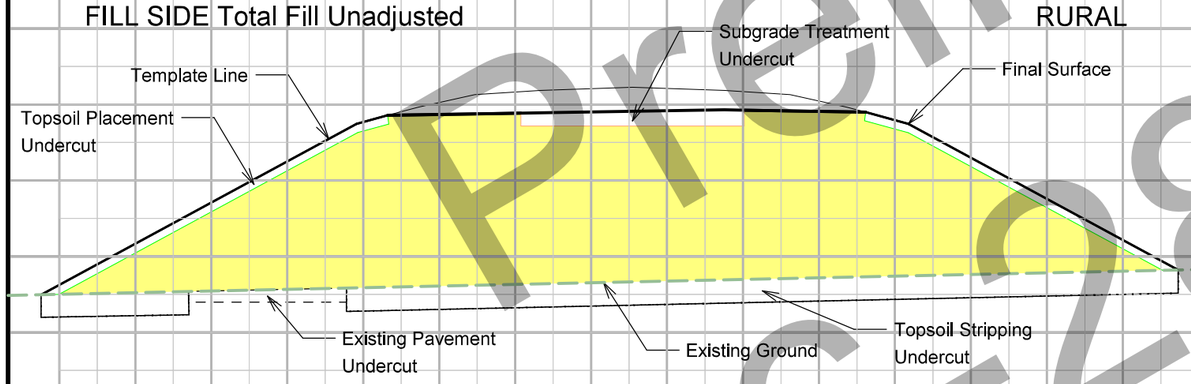
Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

Lt
Med
Rt

FILL SIDE Total Fill Unadjusted

RURAL

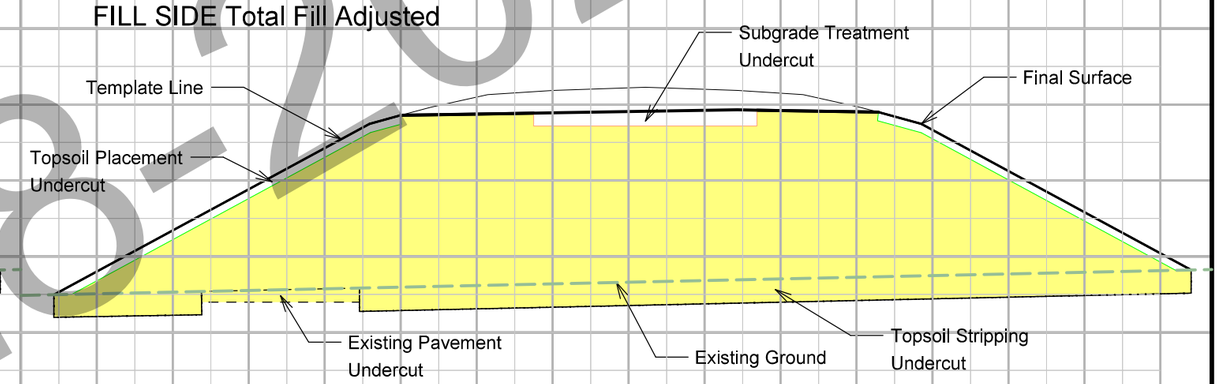


Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

Lt
Med
Rt

FILL SIDE Total Fill Adjusted



Notes:

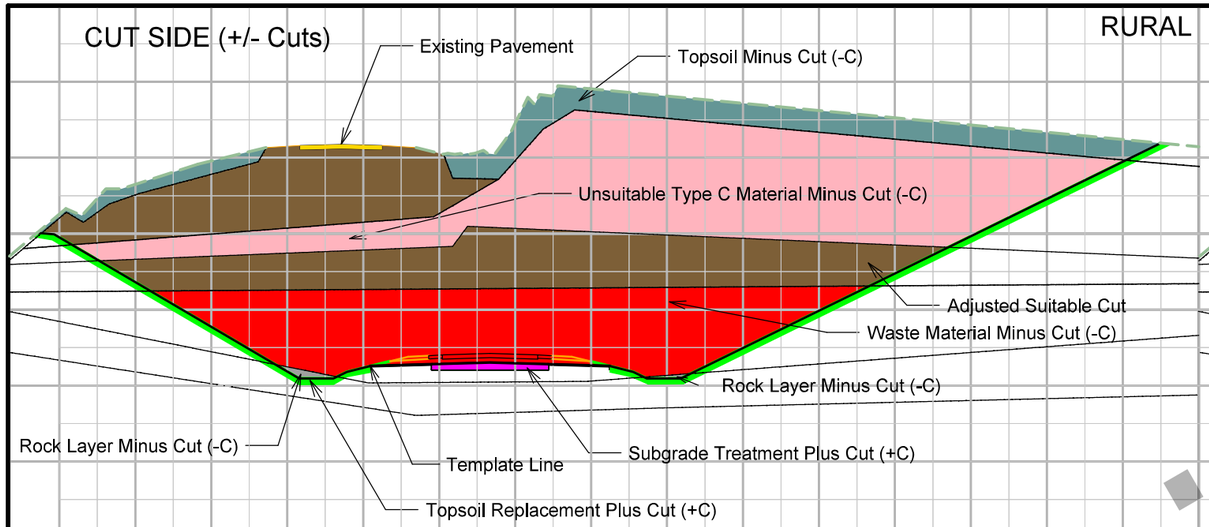
1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

Lt
Med
Rt

Preliminary
06-28-2022

CUT SIDE (+/- Cuts)

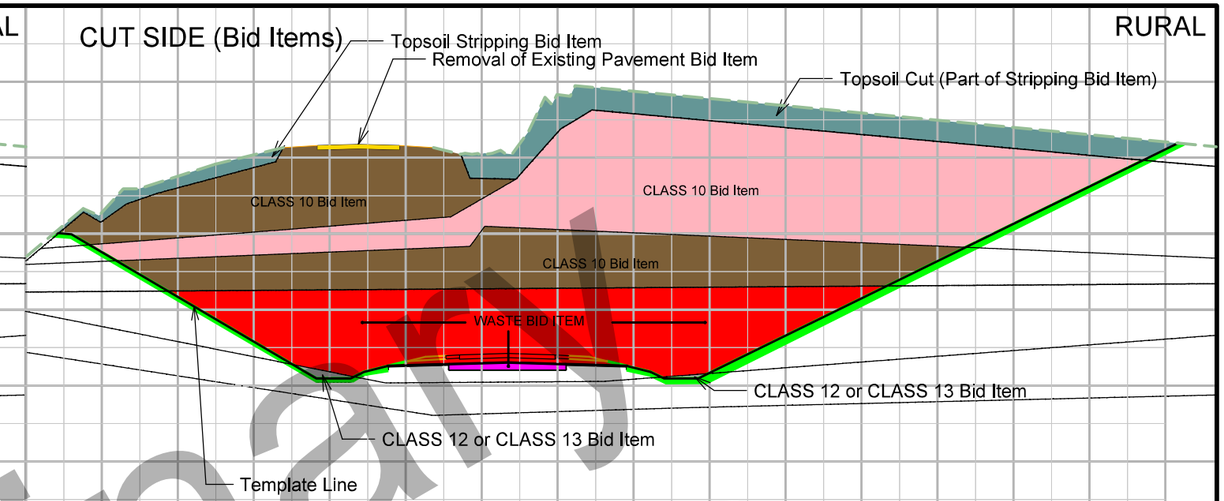
RURAL



Lt
Med
Rt

CUT SIDE (Bid Items)

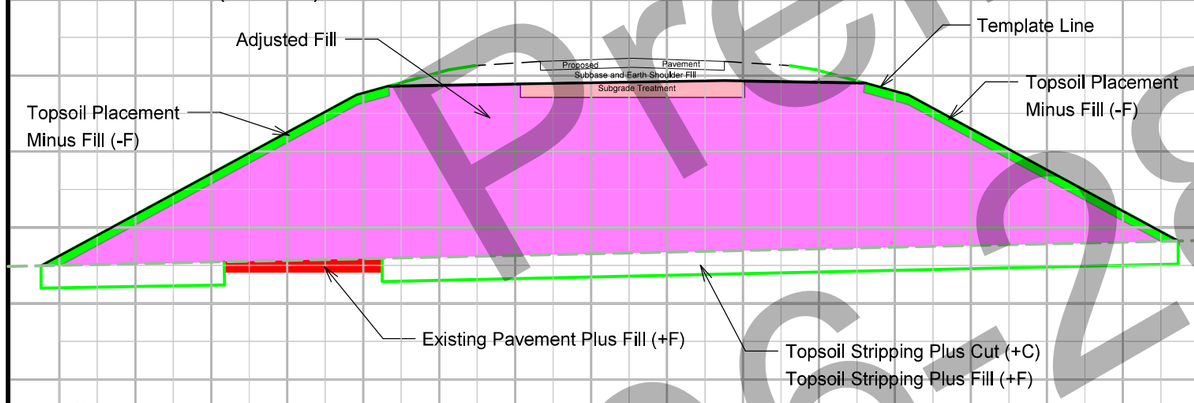
RURAL



Lt
Med
Rt

FILL SIDE (+/- Fills)

RURAL



Notes:

1. "Add Quantity +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12 or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.
5. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

Lt
Med
Rt

FILL SIDE (Bid Items)

RURAL

Notes:

1. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

Lt
Med
Rt

Preliminary
06-28-2022

FILE NO.	ENGLISH	DESIGN TEAM Strum \ Janus	PLYMOUTH COUNTY	PROJECT NUMBER NHSX-075-2(99)--3H-75	SHEET NUMBER T.2

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
US75NB																						
1289+87.00	39	38	1	0	25	0		38	0				0	0	38	0	0	1	0	0	1	
1290+00.00	160	155	5	0	89	0		155	0				0	0	155	0	0	5	1	1	4	
1290+50.00	161	157	5	0	89	0		157	0				0	0	157	0	0	5	1	1	4	
1291+00.00	176	172	4	0	90	0		172	0				0	0	172	0	0	4	0	0	4	
1291+50.00	201	196	4	0	90	0		196	0				0	0	196	0	0	4	0	0	4	
1292+00.00	214	210	4	0	90	0		210	0				0	0	210	0	0	4	0	0	4	
1292+50.00	221	211	10	0	90	0		211	0				0	0	211	0	0	10	4	6	4	
1293+00.00	203	185	18	0	90	0		185	0	3			3	4	181	0	0	18	8	11	7	
1293+50.00	175	152	24	0	92	0		152	2	12			14	18	134	0	0	24	11	15	9	
1294+00.00	185	155	30	0	92	0		155	5	20			25	33	123	0	0	30	15	21	9	
1294+50.00	203	171	32	0	90	0		171	7	23			30	39	132	0	0	32	17	24	8	
1295+00.00	204	174	30	0	90	0		174	7	23			30	39	135	0	0	30	11	15	15	
1295+50.00	188	175	13	0	90	0		175	3	9			12	16	159	0	0	13	3	4	9	
1296+00.00	22	22	0	0	11	0		22	0				0	0	22	0	0	0	0	0	0	
1296+06.00	151	146	5	0	79	0		146	3	4			7	9	137	0	0	5	7	10	-5	
1296+50.00	158	147	11	0	90	0		147	8	9			17	22	125	0	0	11	16	22	-11	
1297+00.00	162	151	11	0	90	0		151	13	9			22	29	122	0	0	11	18	25	-14	
1297+50.00	174	163	10	0	90	0		163	13	8			21	27	136	0	0	10	18	25	-15	
1298+00.00	186	176	10	0	90	0		176	10	8			18	23	153	0	0	10	18	25	-15	
1298+50.00	193	183	10	0	90	0		183	5	7			12	16	167	0	0	10	17	24	-14	
1299+00.00	192	182	10	0	91	0		182	4	7			11	14	168	0	0	10	17	24	-14	
1299+50.00	190	181	9	0	91	0		181	2	5			7	9	172	0	0	9	10	14	-5	
1300+00.00	204	195	9	0	91	0		195	0	4			4	5	190	0	0	9	3	4	5	
1300+50.00	218	211	7	0	91	0		211	6	2			8	10	201	0	0	7	8	11	-4	
1301+00.00	224	219	5	0	90	0		219	10	1			11	14	205	0	0	5	13	18	-13	
1301+50.00	226	221	5	0	90	0		221	6	1			7	9	212	0	0	5	12	17	-12	
1302+00.00	219	213	5	0	90	0		213	3	1			4	5	208	0	0	5	12	17	-12	
1302+50.00	204	198	6	0	90	0		198	2	1			3	4	194	0	0	6	12	17	-11	
1303+00.00	191	185	6	0	90	0		185	8	1			9	12	173	0	0	6	13	18	-12	
1303+50.00	189	183	6	0	90	0		183	18	1			19	25	158	0	0	6	14	20	-14	
1304+00.00	188	183	5	0	90	0		183	26	1			27	35	148	0	0	5	14	20	-15	
1304+50.00	190	185	5	0	90	0		185	30	1			31	40	145	0	0	5	15	21	-16	
1305+00.00	193	187	6	0	90	0		187	30	1			31	40	147	0	0	6	15	21	-15	
1305+50.00	208	202	6	0	90	0		202	25	1			26	34	168	0	0	6	15	21	-15	
1306+00.00	220	213	7	0	90	0		213	20	1			21	27	186	0	0	7	15	21	-14	
1306+50.00	216	208	7	0	90	0		208	21	2			23	30	178	0	0	7	15	21	-14	
1307+00.00	205	199	6	0	90	0		199	24	1			25	33	167	0	0	6	15	21	-15	
1307+50.00	191	186	5	0	90	0		186	29	1			30	39	147	0	0	5	16	22	-17	
1308+00.00	186	180	6	0	90	0		180	41	1			42	55	125	0	0	6	16	22	-16	
1308+50.00	182	176	6	0	90	0		176	48	1			49	64	112	0	0	6	16	22	-16	
1309+00.00	177	171	6	0	90	0		171	46	1			47	61	110	0	0	6	15	21	-15	
1309+50.00	182	176	7	0	90	0		176	39	1			40	52	124	0	0	7	14	20	-13	
1310+00.00	179	172	7	0	90	0		172	29	1			30	39	133	0	0	7	13	18	-11	
1310+50.00	170	162	8	0	90	0		162	26	2			28	36	126	0	0	8	13	18	-10	
1311+00.00	176	170	6	0	90	0		170	30	1			31	40	130	0	0	6	13	18	-12	
1311+50.00	175	171	4	0	89	0		171	30				30	39	132	0	0	4	14	20	-16	
1312+00.00	154	151	4	0	89	0		151	30		1		31	40	111	0	0	4	13	18	-14	
1312+50.00	126	122	4	0	90	0		122	31				31	40	82	0	0	4	13	18	-14	
1313+00.00	134	128	6	0	94	0		128	22	1			23	30	98	0	0	6	13	18	-12	
1313+50.00	171	165	6	0	95	0		165	8	1			9	12	153	0	0	6	13	18	-12	
1314+00.00	203	198	6	0	92	0		198	2	1			3	4	194	0	0	6	11	15	-9	
1314+50.00	222	215	7	0	92	0		215	0	2			2	3	212	0	0	7	10	14	-7	
1315+00.00	219	212	7	0	92	0		212	0	2			2	3	209	0	0	7	10	14	-7	
1315+50.00	219	212	7	0	92	0		212	0	1			1	1	211	0	0	7	10	14	-7	
1316+00.00	234	227	7	0	92	0		227	0	2			2	3	224	0	0	7	10	14	-7	
1316+50.00	235	228	7	0	92	0		228	0	1			1	1	227	0	0	7	5	7	0	
1317+00.00	232	225	7	0	92	0		225	0	1			1	1	224	0	0	7	0	0	7	
1317+50.00	252	245	7	0	91	0		245	0	1			1	1	244	0	0	7	0	0	7	
1318+00.00	265	259	7	0	90	0		259	0	1			1	1	258	0	0	7	0	0	7	
1318+50.00	265	257	7	0	90	0		257	0	1			1	1	256	0	0	7	0	0	7	
1319+00.00	247	241	7	0	91	0		241	0	1			1	1	240	0	0	7	0	0	7	
1319+50.00	227	223	3	0	91	0		223	0	1			1	1	222	0	0	3	0	0	3	
1320+00.00	0	0	0	0	0	0	10	10	0				0	0	10	0	0	0	0	0	0	
1320+00.05	252	244	7	0	91	0	4	248	3			8	11	14	234	0	0	7	14	20	-13	
1320+50.00	235	226	9	0	92	0		226	4				4	5	221	0	0	9	17	24	-15	
1321+00.00	171	163	9	0	91	0		163	2	2			4	5	158	0	0	9	6	8	1	
1321+50.00	157	143	14	0	91	0		143	2	8			10	13	130	0	0	14	4	6	8	
1322+00.00																						
Subtotals:	12,691	12,152	540	0	5,820	0	14	12,166	733	203	1	8	945	1,229	10,938	0	0	540	662	927	-387	

Preliminary 06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1322+00.00																						
1322+50.00	179	158	20	0	91	0		158	4	16			20	26	132	0	0	20	7	10	10	
1323+00.00	194	166	28	0	90	0		166	7	21			28	36	130	0	0	28	15	21	7	
1323+50.00	186	159	27	0	90	0		159	12	20			32	42	117	0	0	27	15	21	6	
1324+00.00	185	158	27	0	91	0		158	16	21			37	48	110	0	0	27	14	20	7	
1324+50.00	178	153	25	0	91	0		153	16	18			34	44	109	0	0	25	14	20	5	
1325+00.00	170	146	24	0	90	0		146	13	16			29	38	108	0	0	24	13	18	6	
1325+50.00	174	151	24	0	90	0		151	12	15			27	35	116	0	0	24	13	18	6	
1326+00.00	178	156	23	0	90	0		156	11	13			24	31	125	0	0	23	12	17	6	
1326+50.00	172	150	23	0	90	0		150	12	14			26	34	116	0	0	23	12	17	6	
1327+00.00	167	143	23	0	90	0		143	14	17			31	40	103	0	0	23	12	17	6	
1327+50.00	168	145	23	0	90	0		145	15	16			31	40	105	0	0	23	12	17	6	
1328+00.00	189	166	23	0	90	0		166	13	13			26	34	132	0	0	23	12	17	6	
1328+50.00	216	193	22	0	91	0		193	11	10			21	27	166	0	0	22	12	17	5	
1329+00.00	233	210	22	0	91	0		210	12	10			22	29	181	0	0	22	12	17	5	
1329+50.00	220	197	23	0	90	0		197	15	11			26	34	163	0	0	23	12	17	6	
1330+00.00	196	172	24	0	90	0		172	18	14			32	42	130	0	0	24	13	18	6	
1330+50.00	196	178	18	0	90	0		178	9	7			16	21	157	0	0	18	9	13	5	
1331+00.00	190	171	19	0	90	0		171	3	9			12	16	155	0	0	19	9	13	6	
1331+50.00	166	144	22	0	90	0		144	6	16			22	29	115	0	0	22	12	17	5	
1332+00.00	144	132	12	0	90	0		132	3	8			11	14	118	0	0	12	5	7	5	
1332+50.00	127	125	2	0	91	0		125	0				0	0	125	0	0	2	1	1	1	
1333+00.00	122	109	13	0	91	0	0	109	6	11			17	22	87	0	0	13	3	4	9	
1333+50.00	147	107	40	0	92	0		107	45	33			78	101	6	0	0	40	14	20	20	
1334+00.00	170	118	52	0	95	0		118	58	42			100	130	-12	0	0	52	21	29	23	
1334+50.00	196	126	70	0	94	0		126	25	49			74	96	30	0	0	70	21	29	41	
1335+00.00	273	194	78	0	90	0		194	26	41			67	87	107	0	0	78	27	38	40	
1335+50.00	201	156	45	0	96	0		156	215	18			233	303	-147	0	0	45	26	36	9	
1336+00.00	185	142	44	0	97	0		142	249	23			272	354	-212	0	0	44	26	36	8	
1336+50.00	264	210	54	0	92	0		210	81	27			108	140	70	0	0	54	30	42	12	
1336+60.00	45	37	8	0	18	0		37	11	4			15	20	18	0	0	8	6	8	0	
1337+00.00	166	125	41	0	74	0	5	130	54	26		446	526	684	-554	0	75	41	26	36	5	
1337+50.00	206	122	84	0	92	0		122	226	65			291	378	-256	0	308	84	43	60	24	
1338+00.00	212	115	97	0	92	0		115	396	80			476	619	-504	0	547	97	52	73	24	
1338+50.00	217	148	69	0	92	0		148	392	61			453	589	-441	0	517	69	54	76	-7	
1339+00.00	212	146	66	0	92	0		146	317	52			369	480	-334	0	410	66	48	67	-1	
1339+50.00	170	89	81	0	86	0		89	311	58	6		375	488	-399	0	410	81	44	62	19	
1340+00.00	151	71	80	0	87	0		71	327	61	5		393	511	-440	81	398	80	47	66	14	
1340+50.00	168	88	80	0	92	0		88	293	60			353	459	-371	151	319	80	47	66	14	
1341+00.00	189	109	80	0	93	0		109	276	58			334	434	-325	126	294	80	46	64	16	
1341+50.00	201	121	81	0	92	0		121	278	57			335	436	-315	126	294	81	47	66	15	
1342+00.00	198	115	83	0	91	0		115	291	58	1		350	455	-340	144	312	83	48	67	16	
1342+50.00	195	110	85	0	89	0		110	284	57	3		344	447	-337	135	302	85	49	69	16	
1343+00.00	198	111	87	0	87	0		111	290	57	5		352	458	-347	142	309	87	51	71	16	
1343+32.89	130	71	59	0	54	0		71	200	39	6		245	319	-248	107	217	59	34	48	11	
1343+50.00	67	36	31	0	26	0		36	102	20	5		127	165	-129	52	109	31	18	25	6	
1344+00.00	202	108	94	0	76	0		108	285	63	22		370	481	-373	143	311	94	54	76	18	
1344+50.00	216	116	99	0	71	0		116	289	68	35		392	510	-394	153	321	99	56	78	21	
1344+52.89	13	7	6	0	4	0		7	17	4	2		23	30	-23	9	20	6	3	4	2	
1345+00.00	214	121	93	0	56	0		121	296	63	48		407	529	-408	85	225	93	52	73	20	
1345+50.00	237	134	102	0	40	0		134	346	69	71		486	632	-498	35	166	102	56	78	24	
1346+00.00	251	147	104	0	29	0		147	353	68	80		501	651	-504	42	173	104	57	80	24	
1346+50.00	252	166	87	0	23	0		166	269	49	84		402	523	-357	0	39	87	52	73	14	
1347+00.00	260	190	70	0	15	0		190	145	29	88		262	341	-151	0	0	70	48	67	3	
1347+00.05	0	0	0	0	0	0		0	0				0	0	0	0	0	0	0	0	0	
1347+47.39	323	260	63	0	9	0	4	264	307	28	82	1,870	2,287	2,973	-2,709	0	82	63	52	73	-10	
1347+50.00	20	18	2	0	0	0		18	30		5		35	46	-28	4	0	2	3	4	-2	
1348+00.00	392	362	30	0	2	0		362	483	14	89		586	762	-400	77	272	30	52	73	-43	
1348+07.89	62	58	4	0	0	0		58	58	4	14		76	99	-41	0	21	4	9	13	-9	
1348+50.00	348	284	63	0	0	0		284	354	42	77		473	615	-331	90	200	63	55	77	-14	
1349+00.00	431	302	129	0	0	0		302	523	84	92		699	909	-607	178	436	129	70	98	31	
1349+50.00	420	286	134	0	19	0		286	602	94	73		769	1,000	-714	186	568	134	70	98	36	
1350+00.00	408	274	134	0	19	0		274	637	92	72		801	1,041	-767	229	611	134	72	101	33	
1350+50.00	394	262	131	0	0	0		262	701	92	91		884	1,149	-887	312	694	131	72	101	30	
1351+00.00	369	240	129	0	0	0		240	778	95	91		964	1,253	-1,013	451	839	129	71	99	30	
1351+50.00	338	210	127	0	0	0		210	815	95	91		1,001	1,301	-1,091	534	927	127	70	98	29	
1352+00.00	293	178	116	0	0	0		178	816	84	92		992	1,290	-1,112	521	914	116	64	90	26	
1352+50.00	255	148	107	0	0	0		148	821	77	91		989	1,286	-1,138	520	913	107	59	83	24	
1353+00.00	239	132	107	0	0	0		132	833	79	90		1,002	1,303	-1,171	538	931	107	59	83	24	
Subtotals:	14,048	10,152	3,893	0	4,263	0	9	10,161	14,733	2,635	1,511	2,316	21,195	27,554	-17,393	5,170	13,481	3,893	2,220	3,108	785	

Preliminary 06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1353+00.00																						
1353+50.00	233	127	106	0	0	0		127	848	78	90		1,016	1,321	-1,194	556	948	106	58	81	25	
1354+00.00	223	118	105	0	0	0		118	861	78	90		1,029	1,338	-1,220	573	966	105	57	80	25	
1354+50.00	210	106	104	0	0	0		106	852	78	90		1,020	1,326	-1,220	560	953	104	57	80	24	
1355+00.00	197	94	103	0	0	0		94	818	77	90		985	1,281	-1,187	515	907	103	56	78	25	
1355+50.00	186	84	102	0	0	0		84	791	78	90		959	1,247	-1,163	482	875	102	55	77	25	
1356+00.00	174	73	100	0	0	0		73	783	79	90		952	1,238	-1,165	473	866	100	54	76	24	
1356+50.00	161	62	99	0	0	0		62	760	79	90		929	1,208	-1,146	443	835	99	53	74	25	
1357+00.00	151	53	98	0	0	0		53	726	79	90		895	1,164	-1,111	399	792	98	53	74	24	
1357+50.00	137	40	97	0	0	0		40	697	79	90		866	1,126	-1,086	361	753	97	52	73	24	
1358+00.00	123	28	95	0	0	0		28	651	79	90		820	1,066	-1,038	263	689	95	51	71	24	
1358+50.00	116	21	94	0	0	0		21	603	79	90		772	1,004	-983	161	623	94	50	70	24	
1359+00.00	110	17	93	0	0	0		17	571	77	91		739	961	-944	116	579	93	49	69	24	
1359+50.00	99	9	90	0	0	0		9	531	76	91		698	907	-898	64	525	90	47	66	24	
1360+00.00	92	4	88	0	0	0		4	475	75	91		641	833	-829	0	452	88	46	64	24	
1360+50.00	88	2	86	0	0	0		2	444	77	91		612	796	-794	0	415	86	42	59	27	
1361+00.00	85	1	84	0	0	0		1	453	76	92		621	807	-806	0	425	84	42	59	25	
1361+50.00	88	2	86	0	0	0		2	472	74	93		639	831	-829	0	447	86	45	63	23	
1362+00.00	83	1	82	0	0	0		1	487	75	92		654	850	-849	5	468	82	41	57	25	
1362+50.00	83	0	83	0	0	0		0	495	80	92		667	867	-867	22	484	83	39	55	28	
1363+00.00	89	0	89	0	119	0		0	520	86			606	788	-788	62	525	89	40	56	33	
1363+50.00	90	0	90	0	119	0		0	475	85			560	728	-728	3	465	90	41	57	33	
1364+00.00	84	1	83	0	0	0		1	370	75	91		536	697	-696	0	315	83	38	53	30	
1364+50.00	86	5	81	0	0	0		5	339	67	90		496	645	-640	0	265	81	35	49	32	
1365+00.00	110	26	84	0	0	0		26	420	66	92		578	751	-725	0	368	84	40	56	28	
1365+50.00	159	73	86	0	0	0		73	465	56	93		614	798	-725	0	413	86	47	66	20	
1366+00.00	166	82	85	0	0	0		82	443	53	93		589	766	-684	0	381	85	45	63	22	
1366+50.00	140	51	90	0	0	0		51	494	66	93		653	849	-798	3	464	90	46	64	26	
1367+00.00	139	36	103	0	0	0		36	546	81	93		720	936	-900	88	551	103	52	73	30	
1367+50.00	139	31	107	0	0	0		31	591	80	93		764	993	-962	147	608	107	54	76	31	
1368+00.00	131	25	106	0	0	0		25	625	80	92		797	1,036	-1,011	191	654	106	53	74	32	
1368+50.00	112	17	96	0	0	0		17	571	80	92		743	966	-949	121	584	96	49	69	27	
1369+00.00	96	11	85	0	0	0		11	487	71	93		651	846	-835	1	464	85	45	63	22	
1369+50.00	91	8	83	0	0	0		8	433	70	93		596	775	-767	0	391	83	44	62	21	
1370+00.00	93	11	82	0	0	0		11	396	68	93		557	724	-713	0	356	82	43	60	22	
1370+50.00	99	17	82	0	0	0		17	368	60	92		520	676	-659	47	324	82	43	60	22	
1371+00.00	105	24	81	0	0	0		24	325	57	92		474	616	-592	0	264	81	42	59	22	
1371+50.00	107	28	80	0	4	0		28	279	62	88		429	558	-530	0	211	80	42	59	21	
1372+00.00	108	28	80	0	14	0		28	265	61	79		405	527	-499	0	192	80	42	59	21	
1372+50.00	107	27	80	0	26	0		27	261	59	67		387	503	-476	0	185	80	42	59	21	
1373+00.00	111	31	80	0	35	0		31	252	56	58		366	476	-445	0	169	80	42	59	21	
1373+50.00	119	37	81	0	36	0		37	254	56	56		366	476	-439	0	170	81	42	59	22	
1374+00.00	124	42	82	0	27	0		42	260	58	65		383	498	-456	0	181	82	43	60	22	
1374+50.00	135	52	83	0	28	0		52	262	58	64		384	499	-447	0	183	83	43	60	23	
1375+00.00	149	72	78	0	24	0		72	229	50	74		353	459	-387	0	130	78	41	57	21	
1375+50.00	118	73	45	0	28	0		73	180	22	64	134	400	520	-447	0	31	45	36	50	-5	
1376+00.00	100	68	31	0	22	0		68	210	19	69		298	387	-319	0	66	31	37	52	-21	
1376+50.00	116	51	65	0	0	0		51	370	52	97		519	675	-624	40	317	65	45	63	2	
1377+00.00	99	20	79	0	0	0		20	480	62	92		634	824	-804	195	472	79	46	64	15	
1377+50.00	83	10	73	0	0	0		10	472	59	92		623	810	-800	182	459	73	42	59	14	
1378+00.00	79	6	73	0	0	0		6	500	60	92		652	848	-842	220	497	73	42	59	14	
1378+50.00	80	5	75	0	0	0		5	551	63	93		707	919	-914	151	567	75	43	60	15	
1379+00.00	83	6	78	0	0	0		6	610	65	93		768	998	-992	151	647	78	45	63	15	
1379+50.00	88	7	81	0	0	0		7	689	68	93		850	1,105	-1,098	151	754	81	48	67	14	
1380+00.00	91	8	83	0	0	0		8	730	69	93		892	1,160	-1,152	151	807	83	49	69	14	
1380+50.00	90	7	83	0	0	0		7	743	70	93		906	1,178	-1,171	151	824	83	49	69	14	
1381+00.00	93	7	85	0	0	0		7	764	72	93		929	1,208	-1,201	335	850	85	50	70	15	
1381+50.00	98	12	87	0	5	0		12	791	72	88		951	1,236	-1,224	420	880	87	51	71	16	
1382+00.00	100	12	88	0	5	0		12	831	74	87		992	1,290	-1,278	476	936	88	52	73	15	
1382+50.00	97	10	88	0	0	0		10	852	74	92		1,018	1,323	-1,313	503	963	88	52	73	15	
1383+00.00	97	9	88	0	0	0		9	860	75	92		1,027	1,335	-1,326	515	975	88	53	74	14	
1383+50.00	98	8	89	0	0	0		8	872	76	92		1,040	1,352	-1,344	532	992	89	53	74	15	
1384+00.00	108	16	92	0	0	0		16	861	76	92		1,029	1,338	-1,322	517	976	92	55	77	15	
1384+50.00	136	41	95	0	0	0		41	858	76	92		1,026	1,334	-1,293	514	974	95	57	80	15	
1385+00.00	159	62	97	0	0	0		62	861	76	92		1,029	1,338	-1,276	517	976	97	58	81	16	
1385+50.00	160	62	98	0	0	0		62	843	76	92		1,011	1,314	-1,252	494	954	98	58	81	17	
1386+00.00	154	57	97	0	0	0		57	836	75	92		1,003	1,304	-1,247	484	943	97	57	80	17	
1386+50.00	157	54	103	0	0	0		54	802	79	92		973	1,265	-1,211	443	904	103	59	83	20	
1387+00.00	171	61	110	0	0	0		61	751	73	93		917	1,192	-1,131	371	829	110	60	84	26	
Subtotals:	8,183	2,249	5,935	0	492	0	0	2,249	38,565	4,717	5,819	134	49,235	64,006	-61,757	13,169	39,408	5,935	3,238	4,533	1,402	

Preliminary 06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1387+00.00																						
1387+50.00	192	88	105	0	0	0		88	705	64	92		861	1,119	-1,031	299	759	105	56	78	27	
1388+00.00	237	142	95	0	0	0		142	635	60	92		787	1,023	-881	203	663	95	53	74	21	
1388+50.00	347	257	90	0	0	0		257	521	49	92		662	861	-604	40	501	90	54	76	14	
1389+00.00	264	204	59	0	0	0		204	618	37	92		747	971	-767	150	610	59	55	77	-18	
1389+50.00	136	89	47	0	0	0		89	653	33	92		778	1,011	-922	190	650	47	51	71	-24	
1390+00.00	184	117	66	0	0	0		117	499	38	92		629	818	-701	0	456	66	48	67	-1	
1390+50.00	207	115	92	0	0	0		115	556	63	92		711	924	-809	104	564	92	57	80	12	
1391+00.00	210	93	116	0	0	0		93	611	89	92		792	1,030	-937	211	670	116	65	91	25	
1391+50.00	188	73	115	0	0	0		73	574	89	93		756	983	-910	163	621	115	64	90	25	
1392+00.00	174	60	114	0	0	0		60	507	88	93		688	894	-834	73	533	114	64	90	24	
1392+50.00	156	55	101	0	0	0		55	427	75	93		595	774	-719	0	411	101	59	83	18	
1393+00.00	135	47	88	0	0	0		47	414	64	92		570	741	-694	0	380	88	52	73	15	
1393+50.00	117	33	85	0	0	0		33	424	64	92		580	754	-721	0	393	85	50	70	15	
1394+00.00	97	17	80	0	0	0		17	428	64	92		584	759	-742	0	398	80	47	66	14	
1394+50.00	85	8	77	0	0	0		8	459	64	92		615	800	-792	0	439	77	45	63	14	
1395+00.00	79	4	76	0	0	0		4	505	64	92		661	859	-855	38	498	76	45	63	13	
1395+50.00	78	1	76	0	0	0		1	549	65	92		706	918	-917	98	556	76	45	63	13	
1396+00.00	74	1	72	0	0	0		1	581	66	92		739	961	-960	140	601	72	42	59	13	
1396+50.00	68	0	68	0	0	0		0	571	66	92		729	948	-948	127	588	68	39	55	13	
1397+00.00	69	0	69	0	0	0		0	558	67	92		717	932	-932	112	572	69	31	43	26	
1397+50.00	73	0	73	0	0	0		0	571	71	92		734	954	-954	134	594	73	21	29	44	
1398+00.00	76	0	76	0	0	0		0	563	72	92		727	945	-945	125	584	76	32	45	31	
1398+50.00	72	0	72	0	0	0		0	575	70	92		737	958	-958	138	597	72	39	55	17	
1399+00.00	69	0	69	0	0	0		0	604	68	92		764	993	-993	172	632	69	38	53	16	
1399+50.00	70	0	70	0	0	0		0	625	69	92		786	1,022	-1,022	202	660	70	40	56	14	
1399+65.90	24	0	24	0	0	0		0	208	24	29		261	339	-339	78	224	24	13	18	6	
1400+00.00	51	0	51	0	0	0		0	474	51	65		590	767	-767	204	517	51	27	38	13	
1400+50.00	67	0	67	0	0	0		0	698	66	102		866	1,126	-1,126	291	751	67	38	53	14	
1400+85.90	54	0	54	0	0	0		0	487	52	78		617	802	-802	196	527	54	27	38	16	
1401+00.00	22	0	22	0	1	0		0	194	21	30		245	319	-319	82	212	22	11	15	7	
1401+50.00	73	1	72	0	5	0		1	724	65	107		896	1,165	-1,164	326	785	72	41	57	15	
1402+00.00	79	3	76	0	0	0		3	745	65	113		923	1,200	-1,197	352	813	76	43	60	16	
1402+50.00	77	2	75	0	0	0		2	784	67	113		964	1,253	-1,251	406	866	75	42	59	16	
1403+00.00	71	1	70	0	0	0		1	776	62	116		954	1,240	-1,239	389	849	70	40	56	14	
1403+50.00	54	1	53	0	0	0		1	705	47	99		851	1,106	-1,105	277	737	53	33	46	7	
1403+75.05	20	0	20	0	0	0		0	348	18	40	190	596	775	-775	125	355	20	16	22	-2	
1403+80.90	5	0	4	0	0	0	44	44	80	4	13	2,243	2,340	3,042	-2,998	26	81	4	4	6	-2	
1404+00.00	24	16	8	0	0	0		16	250	8	46		304	395	-379	66	242	8	13	18	-10	
1404+40.90	101	53	48	0	0	0		53	655	39	83		777	1,010	-957	329	705	48	39	55	-7	
1404+50.00	25	6	18	0	0	0		6	177	15	17		209	272	-266	94	204	18	10	14	4	
1405+00.00	103	12	91	0	0	0		12	1,014	76	92		1,182	1,537	-1,525	520	1,177	91	55	77	14	
1405+50.00	94	2	91	0	0	0		2	1,081	79	92		1,252	1,628	-1,626	520	1,268	91	55	77	14	
1406+00.00	96	3	93	0	0	0		3	1,138	80	92		1,310	1,703	-1,700	520	1,342	93	56	78	15	
1406+50.00	98	4	94	0	0	0		4	1,167	81	92		1,340	1,742	-1,738	827	1,381	94	56	78	16	
1407+00.00	101	7	94	0	0	0		7	1,161	81	92		1,334	1,734	-1,727	1,004	1,373	94	56	78	16	
1407+50.00	103	9	94	0	0	0		9	1,130	80	92		1,302	1,693	-1,684	962	1,330	94	56	78	16	
1408+00.00	104	10	94	0	0	0		10	1,089	80	92		1,261	1,639	-1,629	907	1,275	94	56	78	16	
1408+50.00	106	13	94	0	0	0		13	1,043	79	92		1,214	1,578	-1,565	848	1,216	94	56	78	16	
1409+00.00	112	19	93	0	0	0		19	985	77	92		1,154	1,500	-1,481	768	1,138	93	56	78	15	
1409+50.00	116	22	93	0	0	0		22	934	76	92		1,102	1,433	-1,411	701	1,070	93	56	78	15	
1410+00.00	119	26	93	0	0	0		26	896	75	92		1,063	1,382	-1,356	650	1,019	93	55	77	16	
1410+50.00	122	29	92	0	0	0		29	844	74	92		1,010	1,313	-1,284	582	950	92	55	77	15	
1411+00.00	122	30	92	0	0	0		30	767	73	92		932	1,212	-1,182	480	848	92	55	77	15	
1411+50.00	123	32	91	0	0	0		32	673	72	92		837	1,088	-1,056	356	725	91	54	76	15	
1412+00.00	139	48	91	0	0	0		48	546	69	92		707	919	-871	187	556	91	54	76	15	
1412+50.00	158	69	90	0	7	0		69	433	64	85		582	757	-688	34	403	90	54	76	14	
1413+00.00	183	92	91	0	30	0		92	363	62	62		487	633	-541	0	308	91	54	76	15	
1413+50.00	210	135	76	0	74	0		135	208	43	18		269	350	-215	0	83	76	46	64	12	
1413+88.00	312	289	23	0	73	0		289	38	10		69	117	152	137	0	0	23	30	42	-19	
1414+00.00	132	125	7	0	22	0	5	130	3	1		823	827	1,075	-945	0	0	7	10	14	-7	
1414+50.00	412	346	66	0	91	0		346	40	20			60	78	268	0	0	66	41	57	9	
1415+00.00	337	254	83	0	92	0		254	85	42			127	165	89	0	0	83	49	69	14	
1415+50.00	354	258	96	0	91	0		258	116	54			170	221	37	0	0	96	58	81	15	
1416+00.00	351	254	97	0	91	0		254	139	56			195	254	1	0	8	97	58	81	16	
1416+50.00	345	248	97	0	91	0		248	159	56			215	280	-32	0	35	97	58	81	16	
1417+00.00	320	223	97	0	90	0		223	169	57	1		227	295	-72	0	51	97	58	81	16	
1417+50.00	269	172	97	0	87	0		172	193	60	4		257	334	-162	0	86	97	59	83	14	
1418+00.00	235	130	105	0	87	0		130	222	72	4		298	387	-257	0	139	105	62	87	18	
Subtotals:	9,480	4,348	5,128	0	932	0	49	4,397	37,674	3,972	4,908	3,325	49,879	64,843	-60,446	15,822	39,573	5,128	3,057	4,280	848	

Preliminary 06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1418+00.00																						
1418+50.00	221	109	112	0	90	0		109	268	82	1		351	456	-347	0	212	112	63	88	24	
1419+00.00	223	112	111	0	92	0		112	303	82			385	501	-389	0	256	111	61	85	26	
1419+50.00	229	118	111	0	92	0		118	237	83			320	416	-298	0	173	111	60	84	27	
1420+00.00	184	95	89	0	91	0		95	166	64			230	299	-204	0	55	89	48	67	22	
1420+50.00	307	234	73	0	91	0		234	230	40			270	351	-117	0	107	73	56	78	-6	
1421+00.00	561	473	88	0	91	0		473	198	37			235	306	168	0	62	88	68	95	-7	
1421+50.00	780	719	60	0	92	0		719	248				248	322	397	0	0	60	67	94	-34	
1422+00.00	600	529	71	0	85	0		529	290	20	7		317	412	117	0	159	71	72	101	-30	
1422+50.00	477	350	128	0	65	0		350	209	79	27		315	410	-60	0	130	128	77	108	20	
1423+00.00	619	483	136	0	52	0		483	274	77	40		391	508	-25	0	213	136	81	113	23	
1423+50.00	540	406	134	0	44	0		406	293	82	48		423	550	-144	0	244	134	78	109	25	
1424+00.00	483	361	122	0	39	0		361	299	73	53		425	553	-192	0	241	122	73	102	20	
1424+50.00	455	343	111	0	38	0		343	320	64	54		438	569	-226	0	256	111	68	95	16	
1425+00.00	421	311	110	0	35	0		311	342	64	57		463	602	-291	0	285	110	67	94	16	
1425+50.00	377	270	107	0	25	0		270	361	63	67		491	638	-368	0	308	107	66	92	15	
1426+00.00	355	129	105	122	11	0		251	360	62	81		503	654	-403	0	307	105	64	90	15	
1426+50.00	349	0	103	246	3	0		246	358	61	89		508	660	-414	0	302	103	63	88	15	
1427+00.00	348	122	102	124	1	0		246	353	60	91		504	655	-409	0	294	102	62	87	15	
1427+50.00	336	235	101	0	0	0		235	366	60	92		518	673	-438	0	309	101	61	85	16	
1428+00.00	320	220	99	0	0	0		220	376	59	92		527	685	-465	0	321	99	60	84	15	
1428+50.00	298	202	96	0	0	0		202	337	57	92		486	632	-430	0	269	96	58	81	15	
1429+00.00	275	181	93	0	0	0		181	301	56	92		449	584	-403	0	220	93	56	78	15	
1429+50.00	254	163	91	0	0	0		163	313	55	92		460	598	-435	0	234	91	54	76	15	
1430+00.00	238	149	88	0	0	0		149	313	54	92		459	597	-448	0	233	88	53	74	14	
1430+50.00	222	136	86	0	0	0		136	293	53	92		438	569	-433	0	205	86	51	71	15	
1431+00.00	213	128	85	0	0	0		128	304	53	91		448	582	-454	0	220	85	50	70	15	
1431+50.00	202	119	83	0	0	0		119	320	52	91		463	602	-483	0	239	83	49	69	14	
1432+00.00	130	55	75	0	0	0		55	265	59	91		415	540	-485	0	177	75	34	48	27	
1432+50.00	51	0	50	0	0	0	91	91	192	50	91		333	433	-342	0	72	50	17	24	26	
1433+00.00	56	8	47	0	0	0	25	33	212	39	91	675	1,017	1,322	-1,289	0	83	47	25	35	12	
1433+50.00	82	18	64	0	0	0		18	272	47	92		411	534	-516	0	172	64	36	50	14	
1434+00.00	91	24	67	0	0	0		24	287	49	92		428	556	-532	0	194	67	38	53	14	
1434+50.00	93	26	67	0	0	0		26	289	48	91		428	556	-530	0	194	67	39	55	12	
1435+00.00	102	35	67	0	0	0		35	289	47	91		427	555	-520	0	192	67	39	55	12	
1435+50.00	117	47	70	0	0	0		47	281	48	91		420	546	-499	0	185	70	40	56	14	
1436+00.00	123	52	71	0	4	0		52	255	48	87		390	507	-455	0	151	71	41	57	14	
1436+50.00	126	55	71	0	5	0		55	242	47	86		375	488	-433	0	133	71	41	57	14	
1437+00.00	130	57	73	0	3	0		57	253	49	88		390	507	-450	0	150	73	42	59	14	
1437+50.00	137	62	75	0	3	0		62	250	50	88		388	504	-442	0	147	75	43	60	15	
1438+00.00	139	63	76	0	2	0		63	246	52	89		387	503	-440	0	143	76	44	62	14	
1438+50.00	139	62	77	0	3	0		62	253	54	88		395	514	-452	0	155	77	45	63	14	
1439+00.00	136	58	78	0	10	0		58	266	55	81		402	523	-465	0	173	78	46	64	14	
1439+50.00	135	55	80	0	20	0		55	284	57	71		412	536	-481	0	199	80	47	66	14	
1440+00.00	136	53	82	0	22	0		53	292	59	69		420	546	-493	0	211	82	47	66	16	
1440+50.00	130	47	83	0	25	0		47	288	60	66		414	538	-491	0	208	83	48	67	16	
1441+00.00	144	51	93	0	39	0		51	304	68	52		424	551	-500	0	239	93	55	77	16	
1441+50.00	173	70	104	0	51	0		70	260	75	40		375	488	-418	0	192	104	61	85	19	
1442+00.00	173	87	86	0	59	0		87	176	56	32		264	343	-256	0	57	86	49	69	17	
1442+50.00	159	91	67	0	65	0		91	153	39	26		218	283	-192	0	5	67	36	50	17	
1443+00.00	120	74	46	0	67	0		74	336	32	24		392	510	-436	0	235	46	36	50	-4	
1443+50.00	95	44	50	0	62	0		44	438	41	28		507	659	-615	12	380	50	36	50	0	
1444+00.00	114	41	73	0	58	0		41	272	51	31		354	460	-419	0	177	73	35	49	24	
1444+50.00	131	58	73	0	49	0		58	165	45	40		250	325	-267	0	30	73	39	55	18	
1445+00.00	156	62	94	0	32	0		62	284	65	57		406	528	-466	0	211	94	51	71	23	
1445+50.00	173	60	113	0	17	0		60	482	84	72		638	829	-769	125	493	113	62	87	26	
1446+00.00	147	60	87	0	6	0		60	395	58	83		536	697	-637	0	346	87	51	71	16	
1446+50.00	135	64	71	0	2	0		64	289	42	87		418	543	-479	0	186	71	43	60	11	
1447+00.00	158	73	86	0	0	0		73	358	54	89	64	565	735	-662	0	291	86	50	70	16	
1447+50.00	160	73	88	0	0	0		73	399	57	89		545	709	-636	0	350	88	51	71	17	
1448+00.00	147	62	85	0	0	0		62	418	57	89		564	733	-671	5	373	85	49	69	16	
1448+50.00	151	66	85	0	0	0		66	422	56	89		567	737	-671	9	378	85	49	69	16	
1449+00.00	164	78	86	0	0	0		78	436	55	89		580	754	-676	26	395	86	49	69	17	
1449+50.00	170	84	86	0	0	0		84	459	55	89		603	784	-700	56	425	86	50	70	16	
1450+00.00	168	83	86	0	0	0		83	476	55	89		620	806	-723	78	446	86	50	70	16	
1450+50.00	160	75	85	0	0	0		75	500	56	89		645	839	-764	109	478	85	49	69	16	
1451+00.00	154	68	85	0	0	0		68	516	58	89		663	862	-794	134	502	85	49	69	16	
1451+50.00	149	63	86	0	0	0		63	518	59	89		666	866	-803	138	506	86	49	69	17	
1452+00.00	142	56	86	0	0	0		56	514	60	89		663	862	-806	134	502	86	49	69	17	
Subtotals:	15,383	9,017	5,869	492	1,641	0	116	9,625	21,318	3,788	4,535	739	30,380	39,494	-29,869	826	15,985	5,869	3,496	4,894	975	

Preliminary 06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1452+00.00	138	52	86	0	0	0		52	508	60	90		658	855	-803	126	494	86	49	69	17	
1452+50.00	146	61	86	0	0	0		61	504	59	90		653	849	-788	120	488	86	49	69	17	
1453+00.00	153	35	87	0	0	31		35	509	60	90		659	857	-822	127	497	87	50	70	17	
1453+50.00	149	0	87	0	0	62		0	511	60	90		661	859	-859	130	499	87	50	70	17	
1454+00.00	152	33	88	0	0	31		33	500	61	90		651	846	-813	117	485	88	50	70	18	
1454+50.00	154	65	90	0	0	0		65	508	62	90		660	858	-793	129	497	90	52	73	17	
1455+00.00	153	63	91	0	0	0		63	516	64	90		670	871	-808	142	510	91	53	74	17	
1455+50.00	151	61	90	0	0	0		61	527	64	90		681	885	-824	156	524	90	52	73	17	
1456+00.00	147	58	89	0	0	0		58	558	64	90		712	926	-868	196	566	89	52	73	16	
1456+50.00	46	17	29	0	0	0		17	180	21	28		229	298	-281	66	185	29	16	22	7	
1456+65.90	97	37	60	0	0	0		37	384	44	64		492	640	-603	138	389	60	34	48	12	
1457+00.00	139	55	84	0	0	0		55	542	59	103		704	915	-860	169	537	84	48	67	17	
1457+50.00	98	41	57	0	0	0		41	356	39	79		474	616	-575	73	338	57	32	45	12	
1457+85.90	37	15	22	0	0	0		15	134	15	32		181	235	-220	21	125	22	12	17	5	
1458+00.00	130	49	80	0	0	0		49	478	56	112		646	840	-791	83	451	80	44	62	18	
1458+50.00	139	55	83	0	0	0		55	479	57	111		647	841	-786	86	454	83	46	64	19	
1459+00.00	149	63	85	0	0	0		63	496	57	111		664	863	-800	107	476	85	48	67	18	
1459+50.00	143	63	80	0	0	0		63	442	52	111		605	787	-724	31	399	80	45	63	17	
1460+00.00	128	63	65	0	0	0		63	349	38	96		483	628	-565	0	260	65	38	53	12	
1460+50.00	78	42	35	0	0	0		42	200	19	66		285	371	-329	0	134	35	22	31	4	
1460+80.91	52	28	24	0	0	0		28	127	14	46	51	238	309	-281	0	90	24	14	20	4	
1461+00.00	119	56	63	0	0	0		56	360	43	81		484	629	-573	23	324	63	36	50	13	
1461+40.90	26	11	15	0	0	0		11	95	11	17		123	160	-149	26	94	15	9	13	2	
1461+50.00	229	178	51	0	0	0		178	389	41	81		511	664	-486	20	345	51	47	66	-15	
1461+94.00	45	41	4	0	0	0		41	45	4	11		60	78	-37	0	34	4	7	10	-6	
1462+00.00	267	207	60	0	0	0	24	231	419	45	93	632	1,189	1,546	-1,315	0	360	60	53	74	-14	
1462+50.00	163	76	86	0	0	0		76	444	58	93		595	774	-698	42	410	86	50	70	16	
1463+00.00	148	67	82	0	0	0		67	425	56	93		574	746	-679	12	381	82	49	69	13	
1463+50.00	150	60	89	0	0	0		60	399	55	93		547	711	-651	0	346	89	53	74	15	
1464+00.00	145	59	87	0	101	0		59	365	52			417	542	-483	0	299	87	52	73	14	
1464+50.00	129	53	76	0	101	0		53	340	51			391	508	-455	0	265	76	45	63	13	
1465+00.00	132	56	77	0	0	0		56	325	51	93		469	610	-554	0	244	77	45	63	14	
1465+50.00	136	57	79	0	0	0		57	318	53	93		464	603	-546	0	239	79	46	64	15	
1466+00.00	131	53	78	0	0	0		53	302	53	93		448	582	-529	0	217	78	45	63	15	
1466+50.00	121	47	75	0	1	0		47	266	52	93		411	534	-487	0	169	75	44	62	13	
1467+00.00	113	41	72	0	4	0		41	231	51	91		373	485	-444	0	122	72	42	59	13	
1467+50.00	109	38	72	0	15	0		38	208	51	79		338	439	-401	0	94	72	42	59	13	
1468+00.00	106	41	65	0	28	0		41	193	50	66		309	402	-361	0	72	65	41	57	8	
1468+50.00	101	37	64	0	30	0		37	182	49	65		296	385	-348	0	56	64	40	56	8	
1469+00.00	103	35	68	0	46	0		35	165	48	48		261	339	-304	0	33	68	39	55	13	
1469+50.00	106	42	64	0	71	0		42	141	44	23		208	270	-228	0	0	64	38	53	11	
1470+00.00	108	46	63	0	83	0		46	128	42	10		180	234	-188	0	0	63	38	53	10	
1470+50.00	120	54	66	0	90	0		54	119	46	3		168	218	-164	0	0	66	37	52	14	
1471+00.00	133	66	67	0	93	0		66	116	47			163	212	-146	0	0	67	38	53	14	
1471+50.00	136	66	70	0	93	0		66	121	48			169	220	-154	0	0	70	39	55	15	
1472+00.00	136	66	70	0	93	0		66	123	49			172	224	-158	0	0	70	39	55	15	
1472+50.00	138	71	67	0	93	0		71	117	47	1		165	215	-144	0	0	67	38	53	14	
1473+00.00	152	85	67	0	94	0		85	103	45			148	192	-107	0	0	67	38	53	14	
1473+50.00	158	93	65	0	95	0		93	100	44			144	187	-94	0	0	65	37	52	13	
1474+00.00	147	84	63	0	96	0		84	99	43			142	185	-101	0	0	63	37	52	11	
1474+50.00	146	83	63	0	96	0		83	96	42			138	179	-96	0	0	63	36	50	13	
1475+00.00	151	88	63	0	95	0		88	101	42			143	186	-98	0	0	63	36	50	13	
1475+50.00	146	82	64	0	137	0		82	107	43			150	195	-113	0	0	64	36	50	14	
1476+00.00	125	61	64	0	137	0		61	113	44			157	204	-143	0	0	64	37	52	12	
1476+50.00	106	42	65	0	91	0		42	118	46	3		167	217	-175	0	0	65	37	52	13	
1477+00.00	98	33	65	0	83	0		33	125	47	11		183	238	-205	0	0	65	37	52	13	
1477+50.00	95	22	65	8	133	0		30	125	48			173	225	-195	0	0	65	37	52	13	
1478+00.00	93	11	65	17	118	0		28	127	48			175	228	-200	0	0	65	37	52	13	
1478+50.00	92	9	67	9	41	7		18	144	51	52		247	321	-303	0	9	67	38	53	14	
1479+00.00	90	6	68	0	28	17		6	159	52	65		276	359	-353	0	30	68	38	53	15	
1479+50.00	92	3	69	0	19	20		3	168	52	74		294	382	-379	0	42	69	39	55	14	
1480+00.00	87	1	69	0	12	17		1	183	52	81		316	411	-410	0	62	69	38	53	16	
1480+50.00	83	0	68	0	4	16		0	192	52	89		333	433	-433	0	73	68	38	53	15	
1481+00.00	85	0	68	0	1	17		0	208	53	92		353	459	-459	0	96	68	39	55	13	
1481+50.00	88	0	70	0	0	19		0	253	54	93		400	520	-520	0	155	70	40	56	14	
1482+00.00	92	0	71	0	0	22		0	289	54	93		436	567	-567	0	202	71	41	57	14	
1482+50.00	95	0	72	0	0	23		0	310	55	93		458	595	-595	0	231	72	41	57	15	
1483+00.00	100	0	73	0	0	28		0	308	55	93		456	593	-593	0	228	73	41	57	16	
1483+50.00																						
Subtotals:	8,250	3,283	4,632	34	2,222	310	24	3,341	18,572	3,244	3,928	683	26,427	34,355	-31,014	2,139	13,623	4,632	2,706	3,788	844	

Preliminary 06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1483+50.00																						
1484+00.00	101	0	74	0	19	27		0	278	56	74		408	530	-530	0	189	74	41	57	17	
1484+50.00	93	1	71	0	137	22		1	198	52			250	325	-324	0	81	71	39	55	16	
1485+00.00	89	5	64	0	135	20		5	135	44			179	233	-228	0	0	64	37	52	12	
1485+50.00	195	10	74	0	135	112		10	121	43			164	213	-203	0	0	74	41	57	17	
1486+00.00	474	12	103	0	158	358		12	100	50			150	195	-183	0	0	103	53	74	29	
1486+50.00	689	15	116	0	75	559		15	188	55	20		263	342	-327	0	72	116	63	88	28	
1487+00.00	654	288	64	0	72	302		288	210	35	25		270	351	-63	0	75	64	63	88	-24	
1487+30.00	200	194	6	0	45	0		194	52	6	13		71	92	102	0	0	6	23	32	-26	
1487+50.00	42	39	3	0	31	0		39	25	3	7		35	46	-7	0	0	3	9	13	-10	
1488+00.00	106	72	34	0	79	0	33	105	94	23	17	386	520	676	-571	0	0	34	28	39	-5	
1488+50.00	113	37	76	0	133	0		37	166	54			220	286	-249	0	42	76	38	53	23	
1489+00.00	126	35	91	0	131	0		35	241	64			305	397	-362	0	152	91	48	67	24	
1489+50.00	121	40	81	0	52	0		40	217	55	44		316	411	-371	0	109	81	44	62	19	
1490+00.00	118	47	71	0	27	0		47	176	49	68		293	381	-334	0	48	71	40	56	15	
1490+50.00	117	47	70	0	20	0		47	167	47	73		287	373	-326	0	35	70	40	56	14	
1491+00.00	119	50	69	0	17	0		50	161	46	75		282	367	-317	0	27	69	40	56	13	
1491+50.00	120	53	68	0	108	0		53	162	45			207	269	-216	0	26	68	39	55	13	
1492+00.00	128	61	68	0	115	0		61	159	44			203	264	-203	0	20	68	39	55	13	
1492+50.00	136	68	68	0	33	0		68	156	44	60		260	338	-270	0	17	68	39	55	13	
1493+00.00	139	70	69	0	37	0		70	166	45	56		267	347	-277	0	30	69	40	56	13	
1493+50.00	137	67	69	0	37	0		67	167	46	56		269	350	-283	0	34	69	40	56	13	
1494+00.00	132	63	69	0	40	0		63	152	47	53		252	328	-265	0	14	69	39	55	14	
1494+50.00	131	64	67	0	48	0		64	140	44	44		228	296	-232	0	0	67	39	55	12	
1495+00.00	136	68	68	0	54	0		68	144	45	38		227	295	-227	0	1	68	39	55	13	
1495+50.00	142	72	69	0	58	0		72	144	46	34		224	291	-219	0	3	69	40	56	13	
1496+00.00	143	74	69	0	58	0		74	144	46	34		224	291	-217	0	4	69	40	56	13	
1496+50.00	139	72	67	0	62	0		72	140	44	32		216	281	-209	0	0	67	39	55	12	
1497+00.00	144	78	66	0	74	0		78	124	42	20		186	242	-164	0	0	66	39	55	11	
1497+50.00	144	78	66	0	86	0		78	114	42	8		164	213	-135	0	0	66	39	55	11	
1498+00.00	136	69	67	0	130	0		69	113	45			158	205	-136	0	0	67	39	55	12	
1498+50.00	127	61	66	0	127	0		61	118	45			163	212	-151	0	0	66	38	53	13	
1499+00.00	122	56	66	0	78	0		56	119	44	15		178	231	-175	0	0	66	38	53	13	
1499+50.00	128	61	67	0	72	0		61	111	44	22		177	230	-169	0	0	67	38	53	14	
1500+00.00	136	69	67	0	76	0		69	103	42	18		163	212	-143	0	0	67	39	55	12	
1500+50.00	135	67	68	0	74	0		67	109	43	19		171	222	-155	0	0	68	39	55	13	
1501+00.00	132	64	68	0	60	0		64	131	44	33		208	270	-206	0	0	68	39	55	13	
1501+50.00	148	69	79	0	55	0		69	192	55	38		285	371	-302	0	78	79	47	66	13	
1502+00.00	144	64	81	0	44	0		64	195	57	49		301	391	-327	0	83	81	48	67	14	
1502+50.00	136	62	74	0	39	0		62	153	50	54		257	334	-272	0	20	74	43	60	14	
1503+00.00	154	77	77	0	50	0		77	151	51	43		245	319	-242	0	18	77	45	63	14	
1503+50.00	170	94	77	0	68	0		94	145	49	25		219	285	-191	0	8	77	46	64	13	
1504+00.00	175	98	78	0	75	0		98	151	49	18		218	283	-185	0	16	78	46	64	14	
1504+50.00	174	95	79	0	63	0		95	160	50	29		239	311	-216	0	30	79	46	64	15	
1505+00.00	170	92	79	0	54	0		92	161	50	38		249	324	-232	0	30	79	47	66	13	
1505+50.00	167	87	79	0	53	0		87	172	51	39		262	341	-254	0	47	79	47	66	13	
1506+00.00	166	85	81	0	50	0		85	188	53	42		283	368	-283	0	69	81	47	66	15	
1506+50.00	162	81	82	0	42	0		81	201	54	50		305	397	-316	0	88	82	48	67	15	
1507+00.00	163	81	83	0	40	0		81	215	55	52		322	419	-338	0	107	83	49	69	14	
1507+50.00	165	82	83	0	39	0		82	220	55	53		328	426	-344	0	114	83	49	69	14	
1508+00.00	175	90	85	0	135	0		90	222	57			279	363	-273	0	120	85	51	71	14	
1508+50.00	189	102	87	0	149	0		102	213	57			270	351	-249	0	107	87	52	73	14	
1509+00.00	198	111	87	0	69	0		111	199	56	24		279	363	-252	0	88	87	52	73	14	
1509+50.00	209	121	88	0	86	0		121	195	56	7		258	335	-214	0	83	88	52	73	15	
1510+00.00	217	128	89	0	80	0		128	198	55	13		266	346	-218	0	85	89	53	74	15	
1510+50.00	230	140	91	0	127	0		140	208	55			263	342	-202	0	98	91	54	76	15	
1511+00.00	235	142	92	0	113	0		142	223	56			279	363	-221	0	118	92	55	77	15	
1511+50.00	240	147	93	0	37	0		147	232	57	57		346	450	-303	0	133	93	55	77	16	
1512+00.00	254	160	94	0	41	0		160	233	57	53		343	446	-286	0	135	94	56	78	16	
1512+50.00	253	159	94	0	34	0		159	235	57	60		352	458	-299	0	138	94	57	80	14	
1512+91.90	215	136	79	0	27	0		136	201	48	52		301	391	-255	0	120	79	47	66	13	
1513+00.00	42	27	15	0	6	0		27	39	9	9		57	74	-47	0	22	15	9	13	2	
1513+50.00	262	89	92	0	150	81		89	220	55			275	358	-269	0	114	92	55	77	15	
1514+00.00	273	11	88	0	168	174		11	181	50			231	300	-289	0	56	88	53	74	14	
1514+11.90	68	3	21	0	18	44		3	38	11	9		58	75	-72	0	5	21	12	17	4	
1514+50.00	216	15	66	0	74	134		15	124	35	14		173	225	-210	0	21	66	39	55	11	
1515+00.00	282	39	88	0	112	156		39	156	47	3		206	268	-229	0	21	88	50	70	18	
1515+50.00	284	61	84	0	113	140		61	126	43			169	220	-159	0	0	84	48	67	17	
1516+00.00	297	187	41	0	116	69		187	61	21			82	107	80	0	0	41	43	60	-19	
Subtotals:	12,277	5,162	4,925	0	5,020	2,198	33	5,195	10,853	3,130	1,789	386	16,158	21,005	-15,810	0	3,147	4,925	2,929	4,101	824	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1516+00.00																						
1516+50.00	272	271	1	0	122	0		271	58	1			59	77	194	0	0	1	39	55	-54	
1517+00.00	170	163	8	0	107	0		163	276	2			278	361	-198	0	117	8	35	49	-41	
1517+06.90	18	10	6	1	13	0		11	62	4			66	86	-75	1	52	6	4	6	0	
1517+50.00	159	51	68	41	80	0		92	262	43			305	397	-305	0	186	68	35	49	19	
1517+66.90	81	20	31	31	31	0		51	53	19			72	94	-43	0	10	31	17	24	7	
1518+00.00	174	36	60	77	62	0		113	85	36			121	157	-44	0	0	60	35	49	11	
1518+50.00	257	101	90	65	82	0		166	120	52	11		183	238	-72	0	0	90	54	76	14	
1519+00.00	252	86	90	77	62	0		163	134	50	31		215	280	-117	0	0	90	54	76	14	
1519+50.00	267	17	90	159	137	0		176	138	50			188	244	-68	0	0	90	54	76	14	
1520+00.00	267	18	90	82	151	77		100	133	49			182	237	-137	0	0	90	54	76	14	
1520+50.00	270	17	89	0	83	163		17	127	47	10		184	239	-222	0	0	89	54	76	13	
1521+00.00	283	17	90	0	84	177		17	134	46	10		190	247	-230	0	0	90	54	76	14	
1521+50.00	287	17	91	0	81	180		17	139	47	13		199	259	-242	0	0	91	54	76	15	
1522+00.00	282	16	91	0	78	175		16	149	48	16		213	277	-261	0	13	91	55	77	14	
1522+50.00	271	16	90	0	77	166		16	162	48	17		227	295	-279	0	29	90	54	76	14	
1523+00.00	274	102	91	0	81	80		102	175	50	13		238	309	-207	0	48	91	55	77	14	
1523+50.00	278	185	93	0	150	0		185	183	51			234	304	-119	0	61	93	56	78	15	
1524+00.00	278	184	94	0	154	0		184	177	51			228	296	-112	0	52	94	56	78	16	
1524+50.00	285	191	94	0	92	0		191	167	51	2		220	286	-95	0	40	94	56	78	16	
1525+00.00	295	202	93	0	93	0		202	155	49	1		205	267	-65	0	22	93	56	78	15	
1525+50.00	306	212	94	0	94	0		212	146	49			195	254	-42	0	10	94	57	80	14	
1526+00.00	303	207	95	0	94	0		207	152	51			203	264	-57	0	20	95	57	80	15	
1526+50.00	298	203	95	0	94	0		203	157	51			208	270	-67	0	26	95	57	80	15	
1527+00.00	302	208	95	0	94	0		208	158	51			209	272	-64	0	29	95	57	80	15	
1527+50.00	292	198	93	0	93	0		198	159	52			211	274	-76	0	31	93	56	78	15	
1528+00.00	289	198	91	0	93	0		198	159	52			211	274	-76	0	30	91	55	77	14	
1528+50.00	290	199	92	0	100	0		199	155	52			207	269	-70	0	25	92	55	77	15	
1529+00.00	286	193	93	0	100	0		193	162	52			214	278	-85	0	35	93	56	78	15	
1529+50.00	295	200	95	0	94	0		200	184	54			238	309	-109	0	66	95	57	80	15	
1530+00.00	293	198	96	0	94	0		198	194	55			249	324	-126	0	81	96	57	80	16	
1530+50.00	287	192	96	0	94	0		192	187	54			241	313	-121	0	70	96	58	81	15	
1531+00.00	293	198	95	0	94	0		198	178	53			231	300	-102	0	56	95	57	80	15	
1531+50.00	305	210	95	0	94	0		210	187	54			241	313	-103	0	69	95	57	80	15	
1532+00.00	312	217	95	0	94	0		217	194	55			249	324	-107	0	81	95	57	80	15	
1532+50.00	320	227	93	0	94	0		227	186	53			239	311	-84	0	68	93	55	77	16	
1533+00.00	319	226	92	0	94	0		226	176	53			229	298	-72	0	53	92	55	77	15	
1533+50.00	313	222	91	0	94	0		222	171	52			223	290	-68	0	46	91	54	76	15	
1534+00.00	318	226	92	0	94	0		226	168	52			220	286	-60	0	42	92	55	77	15	
1534+50.00	313	221	92	0	131	0		221	172	52			224	291	-70	0	48	92	55	77	15	
1535+00.00	306	212	93	0	131	0		212	180	54			234	304	-92	0	61	93	56	78	15	
1535+50.00	302	208	94	0	94	0		208	184	54			238	309	-101	0	66	94	56	78	16	
1536+00.00	302	207	95	0	93	0		207	190	54	1		245	319	-112	0	73	95	57	80	15	
1536+50.00	310	213	96	0	94	0		213	189	55			244	317	-104	0	73	96	58	81	15	
1537+00.00	316	220	96	0	94	0		220	189	54			243	316	-96	0	72	96	58	81	15	
1537+50.00	311	214	97	0	94	0		214	201	55			256	333	-119	0	88	97	58	81	16	
1538+00.00	303	204	98	0	111	0		204	218	57			275	358	-154	0	114	98	59	83	15	
1538+50.00	298	199	99	0	174	0		199	235	57			292	380	-181	0	138	99	59	83	16	
1539+00.00	306	206	100	0	146	0		206	256	58			314	408	-202	0	164	100	60	84	16	
1539+50.00	318	216	102	0	71	0		216	277	59	23		359	467	-251	0	192	102	61	85	17	
1540+00.00	329	225	103	0	64	0		225	285	59	30		374	486	-261	0	204	103	62	87	16	
1540+50.00	331	226	104	0	143	0		226	285	60			345	449	-223	0	205	104	63	88	16	
1541+00.00	326	222	104	0	133	0		222	289	60			349	454	-232	0	209	104	63	88	16	
1541+50.00	347	242	106	0	42	0		242	289	60	51		400	520	-278	0	209	106	64	90	16	
1542+00.00	385	278	107	0	119	0		278	271	58			329	428	-150	0	185	107	65	91	16	
1542+50.00	411	303	108	0	130	0		303	249	57			306	398	-95	0	155	108	65	91	17	
1543+00.00	435	327	108	0	69	0		327	243	57	25		325	423	-96	0	147	108	66	92	16	
1543+50.00	447	339	109	0	69	0		339	260	58	25		343	446	-107	0	170	109	66	92	17	
1544+00.00	448	337	111	0	129	0		337	296	60			356	463	-126	0	220	111	68	95	16	
1544+50.00	450	336	113	0	142	0		336	335	63			398	517	-181	0	274	113	69	97	16	
1545+00.00	450	335	115	0	74	0		335	293	64	19		376	489	-154	0	221	115	71	99	16	
1545+50.00	445	345	99	0	62	0		345	184	48	31		263	342	3	0	59	99	61	85	14	
1546+00.00	272	198	73	0	34	0		198	620	38	12		670	871	-673	243	611	73	48	67	6	
1546+50.00	440	386	53	0	22	0		386	646	40	24	62	772	1,004	-618	280	647	53	59	83	-30	
1546+65.00	234	223	11	0	41	0		223	56	10			66	86	137	0	13	11	22	31	-20	
1547+00.00	424	400	24	0	93	0		400	168	23			191	248	152	0	77	24	49	69	-45	
1547+50.00	405	336	68	0	37	0	9	345	279	44	56	1,257	1,636	2,127	-1,782	0	176	68	63	88	-20	
1548+00.00	368	266	101	0	22	0		266	280	56	71		407	529	-263	0	192	101	60	84	17	
1548+50.00	331	233	99	0	5	0		233	304	56	88		448	582	-349	0	224	99	59	83	16	
Subtotals:	20,804	13,331	5,916	533	6,185	1,018	9	13,873	13,885	3,319	580	1,319	19,103	24,834	-10,961	524	6,754	5,916	3,723	5,212	704	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1548+50.00																						
1549+00.00	305	207	98	0	0	0		207	335	57	93		485	631	-424	0	265	98	58	81	17	
1549+50.00	281	185	96	0	0	0		185	372	57	93		522	679	-494	0	313	96	57	80	16	
1550+00.00	257	163	94	0	0	0		163	396	57	93		546	710	-547	0	346	94	56	78	16	
1550+50.00	233	141	92	0	0	0		141	401	57	93		551	716	-575	0	350	92	55	77	15	
1551+00.00	207	116	91	0	0	0		116	402	58	93		553	719	-603	0	354	91	54	76	15	
1551+50.00	183	93	90	0	0	0		93	416	59	93		568	738	-645	7	374	90	53	74	16	
1552+00.00	162	74	88	0	0	0		74	427	59	93		579	753	-679	21	389	88	52	73	15	
1552+50.00	148	62	86	0	0	0		62	432	60	93		585	761	-699	29	397	86	51	71	15	
1553+00.00	132	48	83	0	0	0		48	415	60	93		568	738	-690	5	373	83	49	69	14	
1553+50.00	115	34	81	0	0	0		34	402	61	93		556	723	-689	0	358	81	47	66	15	
1554+00.00	108	29	79	0	0	0		29	403	60	93		556	723	-694	0	358	79	46	64	15	
1554+50.00	107	28	78	0	0	0		28	391	60	93		544	707	-679	0	342	78	45	63	15	
1555+00.00	104	25	78	0	0	0		25	397	61	93		551	716	-691	0	352	78	45	63	15	
1555+50.00	101	23	78	0	0	0		23	410	61	93		564	733	-710	0	369	78	44	62	16	
1556+00.00	101	24	77	0	0	0		24	400	60	93		553	719	-695	0	355	77	44	62	15	
1556+50.00	112	34	78	0	0	0		34	385	59	93		537	698	-664	0	334	78	45	63	15	
1557+00.00	123	42	81	0	0	0		42	352	60	93		505	657	-615	0	293	81	47	66	15	
1557+50.00	137	51	86	0	0	0		51	284	62	93		439	571	-520	0	207	86	48	67	19	
1558+00.00	159	71	88	0	0	0		71	224	58	93		375	488	-417	0	124	88	47	66	22	
1558+50.00	182	92	90	0	5	0		92	191	56	88		335	436	-344	0	77	90	49	69	21	
1559+00.00	214	122	92	0	14	0		122	162	57	79		298	387	-265	0	42	92	44	62	30	
1559+50.00	317	230	87	0	18	0		230	150	47	75		272	354	-124	0	13	87	40	56	31	
1560+00.00	527	430	97	0	17	0		430	323	46	77		446	580	-150	0	238	97	54	76	21	
1560+50.00	552	449	103	0	17	0		449	356	54	78		488	634	-185	0	289	103	59	83	20	
1561+00.00	516	459	57	0	14	0		459	212	5	81		298	387	72	0	38	57	55	77	-20	
1561+50.00	658	530	66	62	4	0		592	189	2	89		280	364	228	0	4	66	60	84	-18	
1562+00.00	702	305	110	288	0	0		593	191	46	92		329	428	165	0	64	110	62	87	23	
1562+50.00	634	92	121	422	0	0		514	288	63	92		443	576	-62	0	226	121	69	97	24	
1563+00.00	576	260	119	196	0	0		456	305	65	92		462	601	-145	66	263	119	70	98	21	
1563+50.00	543	437	106	0	1	0		437	238	52	91		381	495	-58	77	159	106	64	90	16	
1564+00.00	517	412	105	0	6	0		412	223	52	86		361	469	-57	57	139	105	63	88	17	
1564+50.00	495	392	103	0	13	0		392	206	51	79		336	437	-45	34	116	103	62	87	16	
1565+00.00	484	380	103	0	17	0		380	200	52	75		327	425	-45	29	111	103	63	88	15	
1565+50.00	481	377	105	0	19	0		377	195	53	73		321	417	-40	23	105	105	64	90	15	
1566+00.00	482	376	106	0	22	0		376	187	54	70		311	404	-28	14	96	106	65	91	15	
1566+50.00	473	366	107	0	27	0		366	189	56	65		310	403	-37	20	101	107	65	91	16	
1567+00.00	461	354	106	0	37	0		354	185	56	55		296	385	-31	14	96	106	64	90	16	
1567+50.00	442	336	105	0	44	0		336	175	54	48		277	360	-24	0	81	105	62	87	18	
1568+00.00	414	313	101	0	46	0		313	167	51	46		264	343	-30	0	66	101	60	84	17	
1568+50.00	387	291	96	0	43	0		291	173	49	49		271	352	-61	0	72	96	58	81	15	
1569+00.00	381	277	104	0	43	0		277	186	56	49		291	378	-101	16	98	104	61	85	19	
1569+50.00	371	260	111	0	52	0		260	182	59	40		281	365	-105	14	96	111	63	88	23	
1570+00.00	346	241	105	0	62	0		241	178	52	30		260	338	-97	1	83	105	60	84	21	
1570+50.00	329	225	104	0	64	0		225	176	50	28		254	330	-105	0	101	104	60	84	20	
1571+00.00	339	229	110	0	60	0		229	177	50	32		259	337	-108	0	127	110	63	88	22	
1571+50.00	347	231	116	0	53	0		231	197	60	39		296	385	-154	18	165	116	67	94	22	
1572+00.00	335	223	112	0	47	0		223	228	61	45		334	434	-211	60	207	112	66	92	20	
1572+50.00	321	211	110	0	47	0		211	227	60	45		332	432	-221	57	204	110	65	91	19	
1573+00.00	312	198	114	0	52	0		198	196	66	40		302	393	-195	25	172	114	66	92	22	
1573+50.00	304	194	110	0	53	0		194	186	52	39		277	360	-166	0	140	110	72	101	9	
1574+00.00	293	182	111	0	51	0		182	189	53	41		283	368	-186	0	146	111	78	109	2	
1574+50.00	285	171	114	0	44	0		171	192	58	48		298	387	-216	9	156	114	80	112	2	
1575+00.00	287	171	116	0	39	0		171	200	58	53		311	404	-233	20	166	116	82	115	1	
1575+50.00	289	172	117	0	62	0		172	218	65	30		313	407	-235	52	199	117	83	116	1	
1576+00.00	275	168	107	0	80	0		168	229	61	12		302	393	-225	62	209	107	72	101	6	
1576+50.00	261	163	98	0	71	0		163	226	60	21		307	399	-236	57	204	98	59	83	15	
1577+00.00	250	154	96	0	61	0		154	225	60	31		316	411	-257	55	202	96	57	80	16	
1577+50.00	243	147	95	0	61	0		147	215	60	31		306	398	-251	43	190	95	57	80	15	
1578+00.00	230	136	94	0	59	0		136	211	60	33		304	395	-259	36	183	94	55	77	17	
1578+50.00	224	131	93	0	53	0		131	217	60	39		316	411	-280	44	191	93	55	77	16	
1579+00.00	221	128	93	0	52	0		128	227	60	40		327	425	-297	59	205	93	55	77	16	
1579+50.00	210	117	92	0	43	0		117	237	61	49		347	451	-334	72	218	92	55	77	15	
1580+00.00	203	112	91	0	39	0		112	239	60	53		352	458	-346	73	220	91	54	76	15	
1580+50.00	205	117	89	0	48	0		117	229	57	44		330	429	-312	56	203	89	53	74	15	
1581+00.00	204	116	88	0	64	0		116	223	57	28		308	400	-284	48	195	88	52	73	15	
1581+50.00	196	109	87	0	64	0		109	227	56	28		311	404	-295	53	200	87	52	73	14	
1582+00.00	194	109	85	0	57	0		109	223	55	35		313	407	-298	46	192	85	50	70	15	
1582+50.00	201	117	84	0	51	0		117	215	54	41		310	403	-286	34	181	84	49	69	15	
Subtotals:	20,788	13,262	6,553	968	1,896	0	0	14,230	17,624	3,768	4,391	0	25,783	33,518	-19,288	1,404	13,498	6,553	3,936	5,510	1,043	

Preliminary
06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
1582+50.00																						
1583+00.00	207	122	85	0	42	0		122	201	54	50		305	397	-275	16	163	85	50	70	15	
1583+50.00	211	119	92	0	46	0		119	193	61	46		300	390	-271	14	160	92	49	69	23	
1584+00.00	222	119	103	0	57	0		119	193	70	35		298	387	-268	26	172	103	63	88	15	
1584+50.00	215	110	105	0	61	0		110	191	59	31		281	365	-255	9	156	105	77	108	-3	
1585+00.00	204	100	104	0	53	0		100	197	59	39		295	384	-284	17	164	104	75	105	-1	
1585+50.00	198	97	102	0	49	0		97	196	57	43		296	385	-288	13	160	102	75	105	-3	
1586+00.00	195	94	101	0	60	0		94	190	59	32		281	365	-271	9	156	101	72	101	0	
1586+50.00	196	99	97	0	81	0		99	220	55	11		286	372	-273	42	189	97	70	98	-1	
1587+00.00	203	101	102	0	92	0		101	266	57			323	420	-319	0	251	102	56	78	24	
1587+50.00	209	102	107	0	92	0		102	242	66			308	400	-298	85	231	107	53	74	33	
1588+00.00	225	118	107	0	92	0		118	173	68			241	313	-195	0	144	107	52	73	34	
1588+50.00	217	138	79	0	93	0		138	100	51			151	196	-58	0	29	79	38	53	26	
1588+75.05	123	111	12	0	46	0		111	25	5			30	39	72	0	0	12	18	25	-13	
1589+00.00	124	124	0	0	44	0		124	48		2		50	65	59	0	0	0	22	31	-31	
1589+50.00	198	158	40	0	89	0	6	164	156	26	3	499	684	889	-725	0	66	40	49	69	-29	
1590+00.00	201	120	81	0	91	0		120	156	53	1		210	273	-153	0	101	81	49	69	12	
1590+50.00	195	114	81	0	91	0		114	156	53	1		210	273	-159	0	101	81	49	69	12	
1591+00.00	180	100	81	0	88	0		100	159	53	4		216	281	-181	0	107	81	49	69	12	
1591+50.00	188	106	82	0	89	0		106	162	54	3		219	285	-179	0	135	82	49	69	13	
1592+00.00	212	130	83	0	92	0		130	170	55			225	293	-163	38	169	83	49	69	14	
1592+50.00	219	136	83	0	92	0		136	185	56			241	313	-177	57	190	83	49	69	14	
1593+00.00	225	139	85	0	92	0		139	209	56			265	345	-206	0	221	85	50	70	15	
1593+50.00	228	141	87	0	92	0		141	223	55			278	361	-220	0	238	87	48	67	20	
1594+00.00	220	134	86	0	91	0		134	211	52			263	342	-208	0	218	86	45	63	23	
1594+50.00	221	139	83	0	88	0		139	174	47	3		224	291	-152	31	164	83	38	53	30	
1595+00.00	225	147	78	0	86	0		147	114	39	6		159	207	-60	0	75	78	34	48	30	
1595+50.00	239	167	72	0	91	0		167	72	30	3		105	137	31	0	9	72	35	49	23	
1596+00.00	273	205	67	0	101	0		205	53	25			78	101	104	0	0	67	33	46	21	
1596+45.00	285	232	53	0	100	0		232	29	17			46	60	172	0	0	53	28	39	14	
1596+50.00	32	27	5	0	10	0		27	2	1	2		5	7	21	0	0	5	3	4	1	
1596+75.00	130	105	26	0	20	0		105	11	8	45		64	83	22	0	0	26	15	21	5	
1597+00.00	92	67	24	0	0	0		67	8	9	36		53	69	-2	0	0	24	13	18	6	
1597+50.00	91	56	35	0	0	0		56	9	14			23	30	26	0	0	35	18	25	10	
1597+75.00	9	2	7	0	0	0		2	1	3			4	5	-3	0	0	7	3	4	3	
US75NB	0	0	0	0	0	0		0	0				0	0	0	0	0	0	0	0	0	
Totals:	128,316	76,935	45,826	2,027	30,782	3,526	260	79,222	178,652	30,203	27,858	9,409	246,122	319,959	-240,737	39,410	149,238	45,826	27,443	38,421	7,406	

Preliminary
06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
US75SB																						
389+25.00																						
389+50.00	161	161	0	0	0	0		161	166				166	216	-55	0	0	0	0	0	0	
389+75.00	261	261	0	0	0	0		261	262				262	341	-80	0	0	0	0	0	0	
390+00.00	211	211	0	0	0	0		211	211				211	274	-63	0	0	0	0	0	0	
390+25.00	133	126	7	0	0	0		126	83				83	108	18	0	0	7	5	7	0	
390+50.00	75	62	13	0	0	0		62	0				0	0	62	0	0	13	9	13	0	
390+75.00	34	24	10	0	0	0		24	0				0	0	24	0	0	10	7	10	0	
391+00.00	14	7	7	0	0	0		7	0				0	0	7	0	0	7	5	7	0	
391+25.00	10	4	6	0	0	0		4	0				0	0	4	0	0	6	4	6	0	
391+50.00	8	2	5	0	0	0		2	0				0	0	2	0	0	5	4	6	-1	
391+75.00	7	2	5	0	0	0		2	0				0	0	2	0	0	5	4	6	-1	
392+00.00	7	2	5	0	0	0		2	0				0	0	2	0	0	5	3	4	1	
392+25.00	5	1	4	0	0	0		1	0				0	0	1	0	0	4	3	4	0	
392+50.00	4	1	3	0	0	0		1	0				0	0	1	0	0	3	2	3	0	
392+75.00	3	0	3	0	0	0		0	0				0	0	0	0	0	3	2	3	0	
393+00.00	3	0	3	0	0	0		0	0	1			1	1	-1	0	0	3	2	3	0	
393+25.00	3	0	3	0	0	0		0	0	2			2	3	-3	0	0	3	2	3	0	
393+50.00	4	0	4	0	0	0		0	0	3			3	4	-4	0	0	4	3	4	0	
393+75.00	5	0	5	0	0	0		0	1	4			5	7	-7	0	0	5	3	4	1	
394+00.00	5	0	5	0	0	0		0	2	4			6	8	-8	0	0	5	4	6	-1	
394+25.00	6	0	6	0	0	0		0	2	5			7	9	-9	0	0	6	4	6	0	
394+50.00	6	0	6	0	0	0		0	2	5			7	9	-9	0	0	6	4	6	0	
394+75.00	6	0	6	0	0	0		0	3	5			8	10	-10	0	0	6	4	6	0	
395+00.00	7	0	7	0	0	0		0	5	7			12	16	-16	0	0	7	5	7	0	
395+25.00	8	0	8	0	0	0		0	6	8			14	18	-18	0	0	8	6	8	0	
395+50.00	8	0	8	0	0	0		0	7	8			15	20	-20	0	0	8	6	8	0	
395+75.00	8	0	8	0	0	0		0	7	8			15	20	-20	0	0	8	6	8	0	
396+00.00	8	0	8	0	0	0		0	8	8			16	21	-21	0	0	8	5	7	1	
396+25.00	8	0	8	0	0	0		0	8	8			16	21	-21	0	0	8	5	7	1	
396+50.00	8	0	8	0	0	0		0	7	7			14	18	-18	0	0	8	5	7	1	
396+75.00	8	0	8	0	0	0		0	5	7			12	16	-16	0	0	8	5	7	1	
397+00.00	8	0	8	0	0	0		0	4	7			11	14	-14	0	0	8	5	7	1	
397+25.00	7	0	7	0	0	0		0	3	6			9	12	-12	0	0	7	5	7	0	
397+50.00	7	0	7	0	0	0		0	3	6			9	12	-12	0	0	7	4	6	1	
397+75.00	7	0	7	0	0	0		0	2	6			8	10	-10	0	0	7	4	6	1	
398+00.00	8	0	8	0	0	0		0	3	7			10	13	-13	0	0	8	5	7	1	
398+25.00	8	0	8	0	0	0		0	4	7			11	14	-14	0	0	8	6	8	0	
398+50.00	8	0	8	0	0	0		0	5	7			12	16	-16	0	0	8	6	8	0	
398+75.00	8	0	8	0	0	0		0	5	8			13	17	-17	0	0	8	5	7	1	
399+00.00	7	0	7	0	0	0		0	5	7			12	16	-16	0	0	7	5	7	0	
399+25.00	6	0	6	0	0	0		0	4	6			10	13	-13	0	0	6	4	6	0	
399+50.00	5	0	5	0	0	0		0	3	5			8	10	-10	0	0	5	4	6	-1	
399+75.00	5	0	5	0	0	0		0	3	5			8	10	-10	0	0	5	3	4	1	
400+00.00	5	0	5	0	0	0		0	3	5			8	10	-10	0	0	5	3	4	1	
400+25.00	6	0	6	0	0	0		0	4	6			10	13	-13	0	0	6	4	6	0	
400+50.00	7	0	7	0	0	0		0	4	7			11	14	-14	0	0	7	4	6	1	
400+75.00	6	0	6	0	0	0		0	3	6			9	12	-12	0	0	6	4	6	0	
401+00.00	7	0	7	0	0	0		0	2	7			9	12	-12	0	0	7	5	7	0	
401+25.00	7	0	7	0	0	0		0	1	7			8	10	-10	0	0	7	5	7	0	
401+50.00	6	0	6	0	0	0		0	0	5			5	7	-7	0	0	6	4	6	0	
401+75.00	5	0	5	0	0	0		0	0	4			4	5	-5	0	0	5	2	3	2	
402+00.00	4	0	4	0	0	0		0	0	2			2	3	-3	0	0	4	2	3	1	
402+25.00	3	0	3	0	0	0		0	0				0	0	0	0	0	3	2	3	0	
402+50.00	5	1	4	0	0	0		1	0				0	0	1	0	0	4	2	3	1	
402+75.00	9	3	5	0	0	0		3	0	1			1	1	2	0	0	5	3	4	1	
403+00.00	14	8	6	0	0	0		8	0				0	0	8	0	0	6	4	6	0	
403+25.00	88	84	4	0	0	0		84	79				79	103	-19	0	0	4	2	3	1	
403+50.00	131	131	0	0	0	0		131	132				132	172	-41	0	0	0	0	0	0	
403+75.00	76	76	0	0	0	0		76	77				77	100	-24	0	0	0	0	0	0	
404+00.00	25	23	1	0	0	0		23	24	1			25	33	-10	0	0	1	1	1	0	
404+25.00	6	2	4	0	0	0		2	0	1			1	1	1	0	0	4	2	3	1	
404+50.00	10	5	5	0	0	0		5	0				0	0	5	0	0	5	3	4	1	
404+75.00	9	3	5	0	0	0		3	0	1			1	1	2	0	0	5	3	4	1	
405+00.00	5	1	4	0	0	0		1	0	1			1	1	0	0	0	4	3	4	0	
405+25.00	3	0	3	0	0	0		0	0	1			1	1	-1	0	0	3	2	3	0	
405+50.00	6	1	4	0	0	0		1	0	1			1	1	0	0	0	4	2	3	1	
405+75.00	6	2	4	0	0	0		2	0				0	0	2	0	0	4	2	3	1	
406+00.00	5	1	4	0	0	0		1	0	1			1	1	0	0	0	4	2	3	1	
Subtotals:	1,572	1,205	362	0	0	0	0	1,205	1,158	224	0	0	1,382	1,797	-592	0	0	362	239	335	27	

Preliminary
06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
406+00.00	4	0	4	0	0	0		0	0	2			2	3	-3	0	0	4	3	4	0	
406+25.00	4	0	4	0	0	0		0	0	3			3	4	-4	0	0	4	3	4	0	
406+50.00	5	0	5	0	0	0		0	1	4			5	7	-7	0	0	5	2	3	2	
406+75.00	5	0	5	0	0	0		0	1	3			4	5	-5	0	0	5	2	3	2	
407+00.00	4	0	4	0	0	0		0	0	2			2	3	-3	0	0	4	2	3	1	
407+25.00	5	0	5	0	0	0		0	1	4			5	7	-7	0	0	5	4	6	-1	
407+50.00	7	0	7	0	0	0		0	1	6			7	9	-9	0	0	7	4	6	1	
407+75.00	7	0	7	0	0	0		0	1	6			7	9	-9	0	0	7	5	7	0	
408+00.00	8	0	8	0	0	0		0	2	7			9	12	-12	0	0	8	5	7	1	
408+25.00	8	0	8	0	0	0		0	3	7			10	13	-13	0	0	8	5	7	1	
408+50.00	9	0	9	0	0	0		0	10	8			18	23	-23	0	0	9	6	8	1	
408+75.00	11	0	11	0	0	0		0	17	11			28	36	-36	0	0	11	7	10	1	
409+00.00	11	0	11	0	0	0		0	17	11			28	36	-36	0	0	11	7	10	1	
409+25.00	10	0	10	0	0	0		0	12	10			22	29	-29	0	0	10	7	10	0	
409+50.00	9	0	9	0	0	0		0	6	8			14	18	-18	0	0	9	6	8	1	
409+75.00	9	0	9	0	0	0		0	4	8			12	16	-16	0	0	9	6	8	1	
410+00.00	8	0	8	0	0	0		0	1	7			8	10	-10	0	0	8	6	8	0	
410+25.00	8	0	8	0	0	0		0	1	7			8	10	-10	0	0	8	3	4	4	
410+50.00	5	0	5	0	0	0		0	1	3			4	5	-5	0	0	5	2	3	2	
410+75.00	0	0	0	0	0	0		0	0				0	0	0	0	0	0	0	0	0	
US75SB																						
Totals:	1,709	1,205	499	0	0	0	0	1,205	1,237	341	0	0	1,578	2,052	-847	0	0	499	324	454	46	

Preliminary
06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
JasminRd																						
2376+00.00	15	2	13	0	0	0		2	188	12			200	260	-258	0	0	13	4	6	7	
2376+25.00	23	5	18	0	0	0		5	70	14			84	109	-104	0	0	18	8	11	7	
2376+50.00	17	5	11	0	0	0		5	15	8			23	30	-25	0	0	11	5	7	4	
2376+75.00	12	6	6	0	0	0		6	2	5			7	9	-3	0	0	6	2	3	3	
2377+00.00	6	3	3	0	0	0		3	1	3			4	5	-2	0	0	3	1	1	2	
2377+20.00	0	0	0	0	0	0		0	0				0	0	0	0	0	0	0	0	0	
JasminRd																						
Totals:	73	21	51	0	0	0	0	21	276	42	0	0	318	414	-393	0	0	51	20	28	23	

Preliminary
06-28-2022

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut								Fill							Checks (EW-102)		Topsoil				
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Unsuitable Type B Volume	Template Pavement Removal Volume	Template Waste Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Existing Topsoil Stripping Undercut (+ Fill)	Existing Pavement Undercut (+Fill)	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink	
Summary:																						
US75NB	128,316	76,935	45,826	2,027	30,782	3,526	260	79,222	178,652	30,203	27,858	9,409	246,122	319,959	-240,737	39,410	149,238	45,826	27,443	38,421	7,406	
US75SB	1,709	1,205	499	0	0	0	0	1,205	1,237	341	0	0	1,578	2,052	-847	0	0	499	324	454	46	
JasminRd	73	21	51	0	0	0	0	21	276	42	0	0	318	414	-393	0	0	51	20	28	23	
Project Totals:	130,098	78,161	46,376	2,027	30,782	3,526	260	80,448	180,165	30,586	27,858	9,409	248,018	322,425	-241,977	39,410	149,238	46,376	27,787	38,903	7,475	

Excavation, Class 10, Roadway & Borrow [8] 80,448

Embankment in Place, Contractor Furnished [15]/1.3 186,136

Topsoil, Strip, Salvage & Spread [18] 46,376

Excavation, Class 10, Waste [6] 3,526

Preliminary
06-28-2022