

REVIEWER NOTES:

1. A 45-DAY CLOSURE IS ANTICIPATED. TRAFFIC IS EXPECTED TO BE HANDLED WITH AN OFFSITE DETOUR. DETOUR SIGNAGE WILL BE THE RESPONSIBILITY OF THE TOWN.
2. EXISTING UTILITY LINE IS INACTIVE. WE PLAN TO REPLACE ACROSS THE BRIDGE FOR FUTURE USE.
3. ANY STRUCTURAL ELEMENTS SHOWN IN THE PLANS ARE CONCEPTUAL IN NATURE AND HAVE NOT BEEN FULLY DESIGNED.
4. THIS PROJECT WILL UTILIZE THE VT DEC LOW RISK SITE HANDBOOK FOR EPSC. NO SITE-SPECIFIC EPSC PLAN IS INCLUDED. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC EPSC PLAN TO VTRANS UPON CONTRACT AWARD IN ACCORDANCE WITH THEIR MEANS AND METHODS.
5. IT IS ANTICIPATED THAT RIGHT-OF-WAY ACQUISITION WILL BE NECESSARY.
6. ADDITIONAL BORINGS ARE BEING TAKEN AND WILL BE ADDED AT FINAL PLANS.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

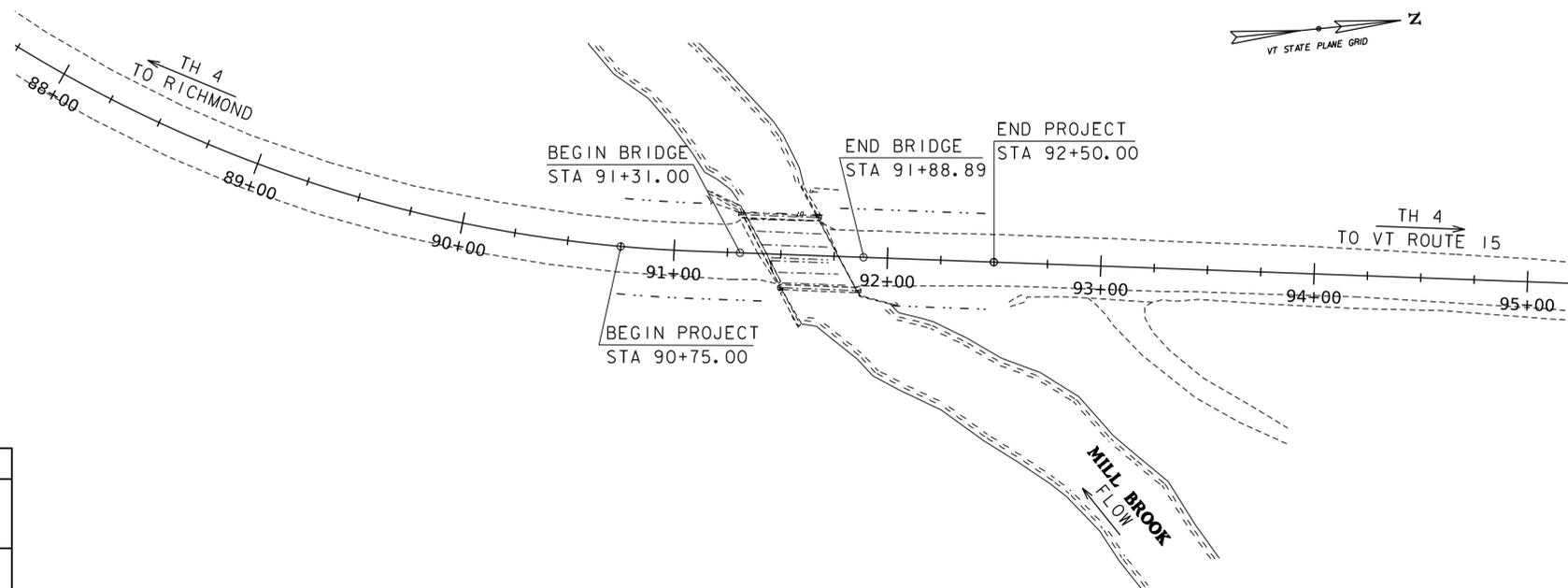
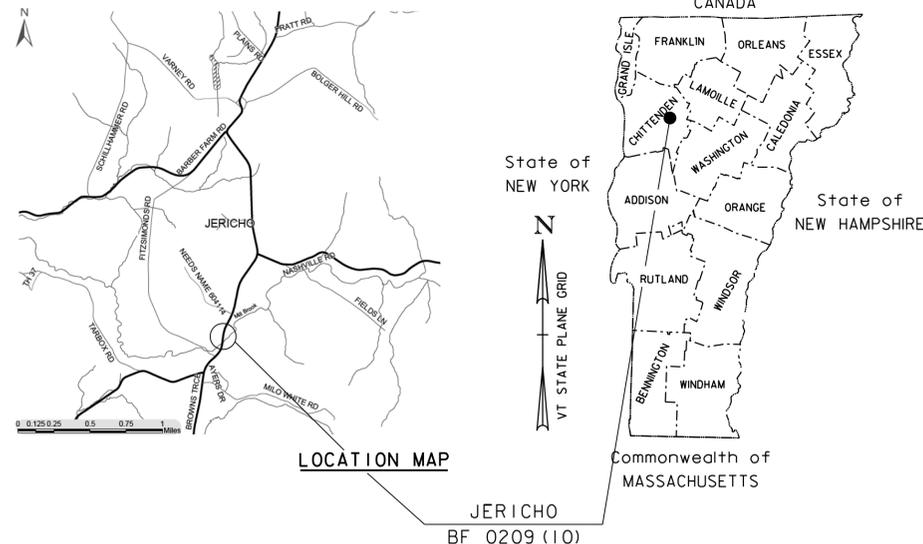
TOWN OF JERICHO
COUNTY OF CHITTENDEN

ROUTE NO : FAS ROUTE 209 (TH4/BROWNS TRACE RD.) BRIDGE NO : 15

PROJECT LOCATION : TOWN OF JERICHO ON TH 4 (BROWNS TRACE ROAD) APPROXIMATELY 0.12 MILES NORTH OF FITZSIMONDS ROAD.

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGE NO. 15 ON TH 4 (BROWNS TRACE RD.) IN JERICHO, OVER MILL BROOK.

LENGTH OF STRUCTURE : 57.89 FEET.
 LENGTH OF ROADWAY : 117.11 FEET.
 LENGTH OF PROJECT : 175.00 FEET.

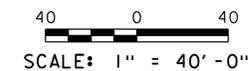


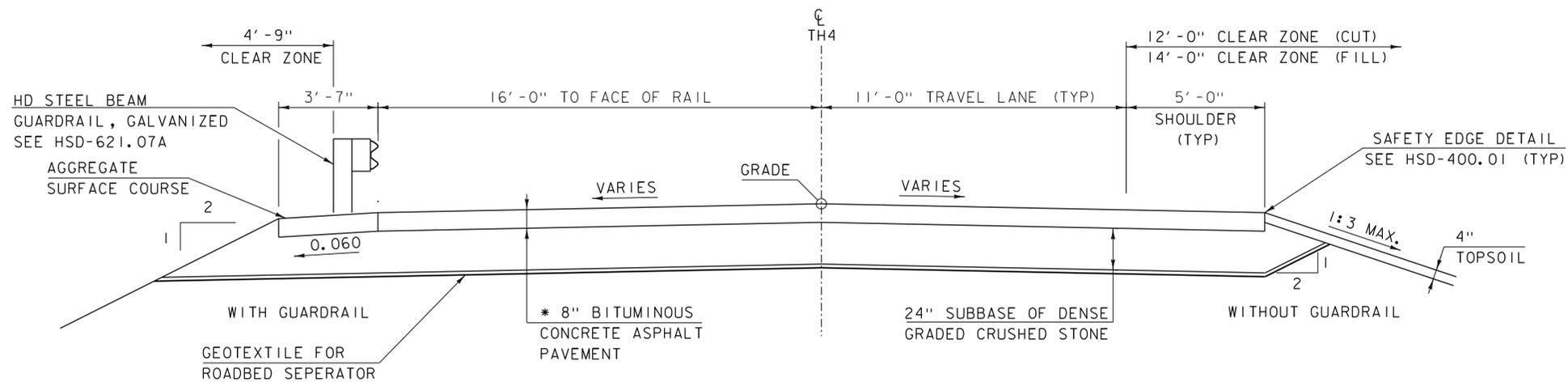
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2
SURVEYED BY : VTRANS
SURVEYED DATE : 5.17.2021
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (2011)

PRELIMINARY PLANS 17-JUL-2023

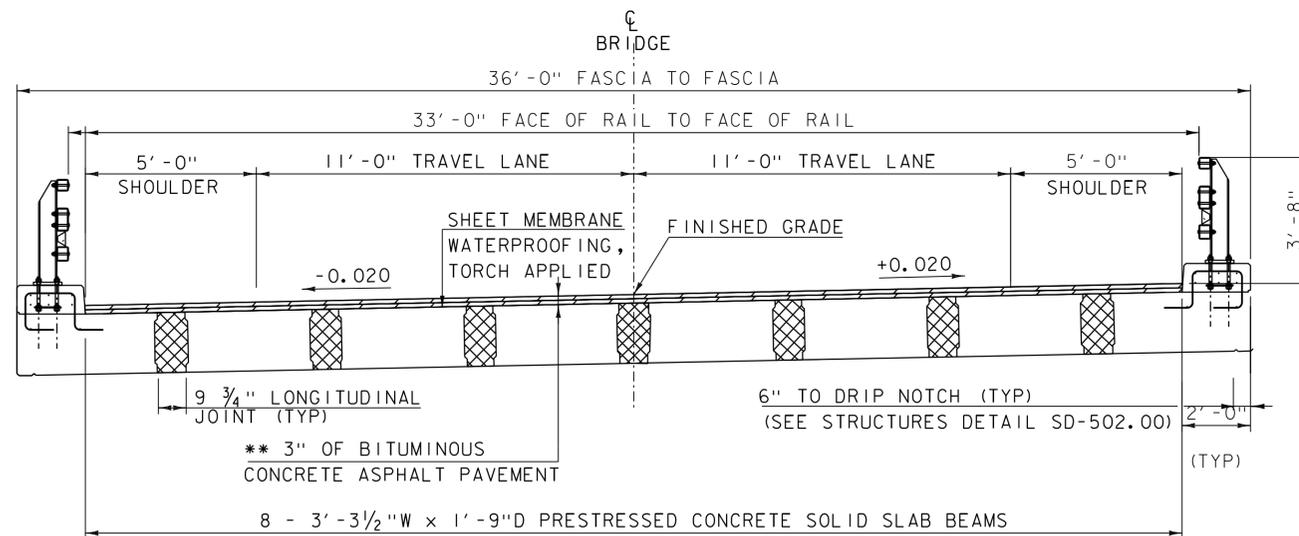
HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____
PROJECT MANAGER : R. YOUNG
PROJECT NAME : JERICHO
PROJECT NUMBER : BF 0209 (10)
SHEET 1 OF 23 SHEETS





TH4 TYPICAL SECTION
SCALE 3/8" = 1'-0"

* 1 1/2" TYPE IVB
1 1/2" TYPE IVB
2 1/2" TYPE IIS
2 1/2" TYPE IIS



BRIDGE TYPICAL SECTION
SCALE 3/8" = 1'-0"

** 1 1/2" TYPE IVB
1 1/2" TYPE IVB

PAVEMENT SPECIFICATIONS

DESIGN LANE/DESIGN LIFE ESALS	559,320
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	65

EMULSION SHALL BE APPLIED PER THE APPLICATION RATES IN TABLE 406.12A OF THE STARDARD SPECIFICATIONS.

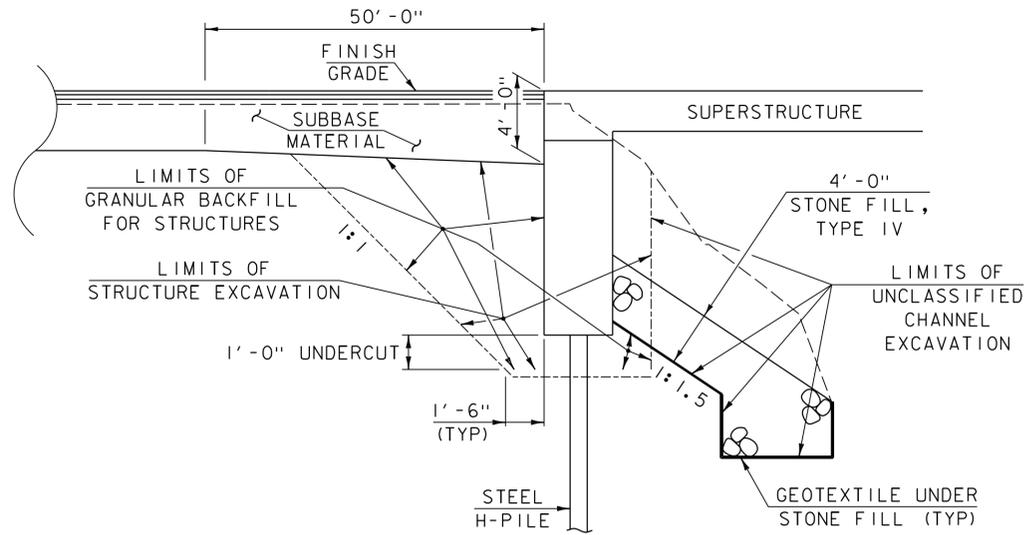
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

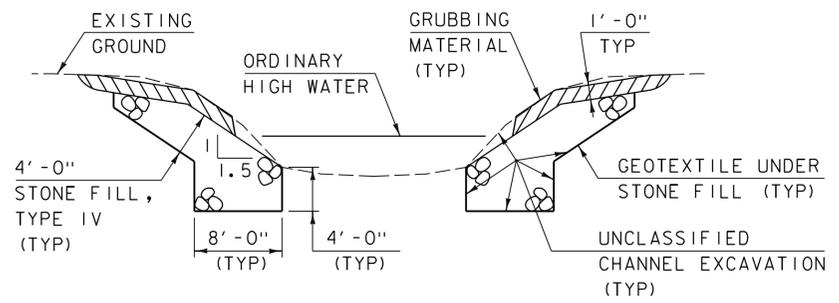
PROJECT NAME: JERICO
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634+yp.dgn
PROJECT LEADER: R. YOUNG
DESIGNED BY: F. BARROWS
TYPICAL SECTIONS I

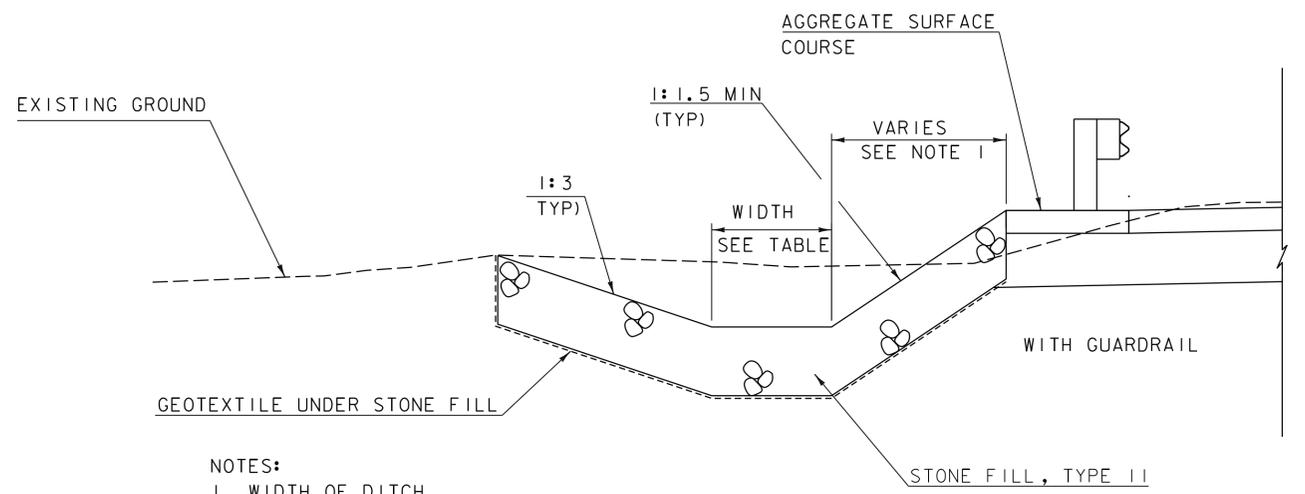
PLOT DATE: 17-JUL-2023
DRAWN BY: A. MANN
CHECKED BY: F. BARROWS
SHEET 3 OF 23



ABUTMENT EARTHWORK TYPICAL SECTION



CHANNEL TYPICAL SECTION



NOTES:
 1. WIDTH OF DITCH FORESLOPE VARIES, SEE CROSS SECTIONS

STA	90+00 TO 91+30 RT	WIDTH OF 2.5'
STA	91+80 TO 93+50 LT	WIDTH OF 3.5

STONE LINED DITCH TYPICAL

1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
2. GRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED IN AREAS THAT WILL SEE CONCENTRATED FLOWS RESULTING FROM SURFACE WATER RUNOFF. GRUBBING MATERIAL MAY BE OMITTED IF LESS THAN 3 FEET IN WIDTH BENEATH A STRUCTURE. SEE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

PROJECT NAME:	JERICHO	PLOT DATE:	17-JUL-2023
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	A. MANN
FILE NAME:	sl2j634+yp.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	TYPICAL SECTIONS	2
DESIGNED BY:	F. BARROWS	SHEET	4 OF 23

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

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

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

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

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

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

PROJECT CONSTRUCTION FEATURES

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

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

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

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**ENVIRONMENTAL RESOURCES**

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

**ARCHEOLOGICAL & HISTORIC**

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

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

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

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2J634legend.dgn PLOT DATE: 17-JUL-2023  
PROJECT LEADER: R.YOUNG DRAWN BY: A.MANN  
DESIGNED BY: F.BARROWS CHECKED BY: F.BARROWS  
CONVENTIONAL SYMBOLGY LEGEND SHEET 5 OF 23

PRIMARY CONTROL

HVCTRL #1  
 NORTH = 710853.6320  
 EAST = 1515771.3680  
 ELEV. = 668.6900

TO REACH FROM THE INTERSECTION OF ROUTE 2, JERICO ROAD, AND BRIDGE ST IN RICHMOND VILLAGE, GO NORTHERLY ALONG JERICO ROAD (LATER BECOMING BROWNS TRACE ROAD) FOR 3.55 MI (5.71 KM) TO THE INTERSECTION OF JERICO HIGHWAY DEPARTMENT ROAD ON THE LEFT. TURN LEFT AND GO WEST ALONG JERICO HIGHWAY DEPARTMENT ROAD FOR 0.2 MI (0.3 KM) TO THE ENTRANCE DRIVEWAY TO THE JERICO HIGHWAY DEPARTMENT GARAGE AND THE SITE OF THE MARK ON THE LEFT IN A LAWN. IT IS 10.1 METERS SOUTHWEST CENTER LINE ROAD TO JERICO HIGHWAY DEPARTMENT. 12.8 METERS SOUTHEAST CENTERLINE OF GRAVEL DRIVE. 17.4 METERS SOUTH SOUTH WEST OF POLE #30/105X4.7.8 METERS NORTH NORTHWEST OF A SPRUCE TREE.

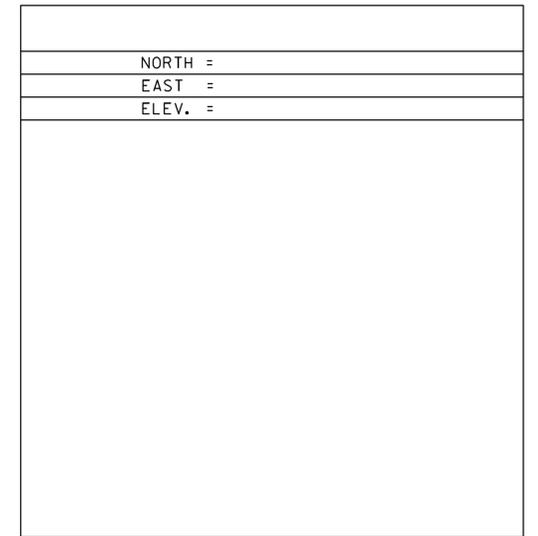
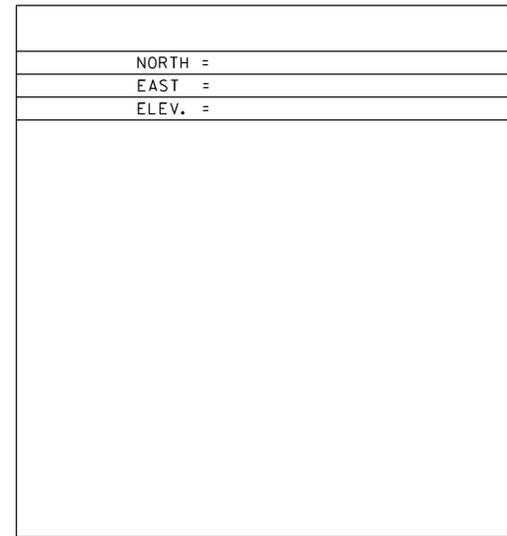
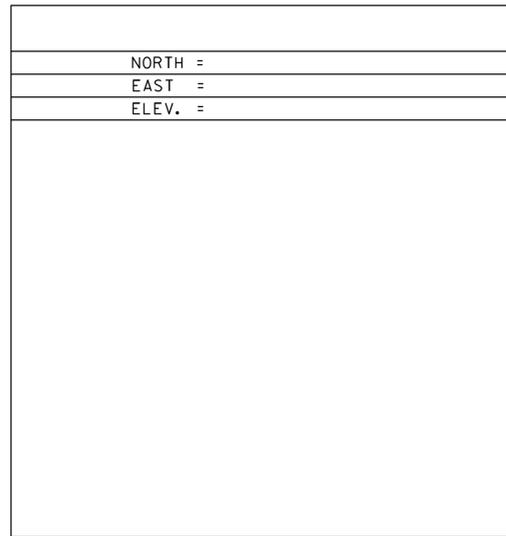
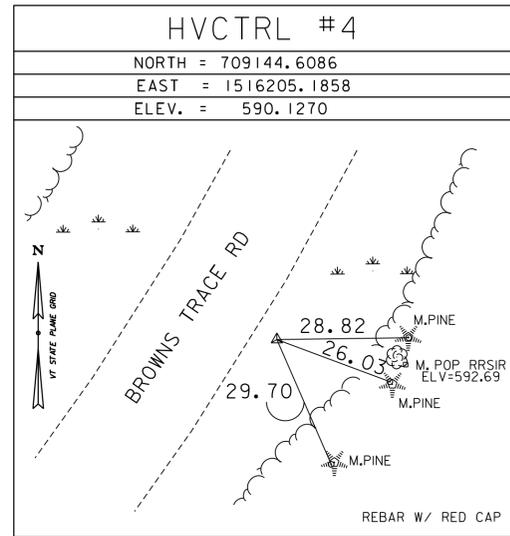
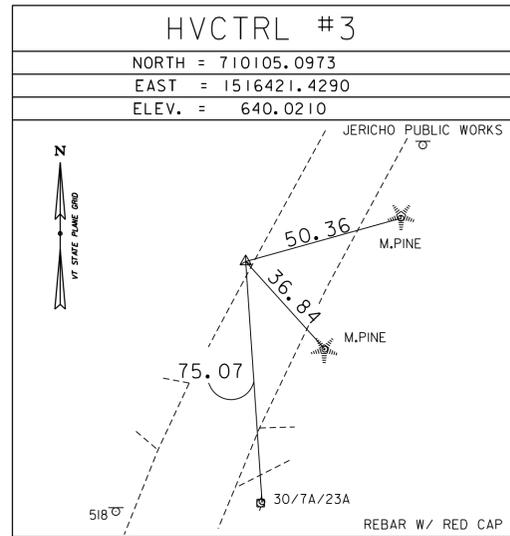
HVCTRL #2  
 NORTH = 710600.1630  
 EAST = 1516660.5390  
 ELEV. = 640.6600

TO REACH FROM THE INTERSECTION OF ROUTE 2, JERICO ROAD, AND BRIDGE ST IN RICHMOND VILLAGE, GO NORTHERLY ALONG JERICO ROAD (LATER BECOMING BROWNS TRACE ROAD) FOR 3.55 MI (5.71 KM) TO THE INTERSECTION OF JERICO HIGHWAY DEPARTMENT ROAD ON THE LEFT AND THE SITE OF THE MARK ON THE LEFT ABOUT 100 FT (30.5 M) NORTH OF THE INTERSECTION.

THE MARK IS A .75 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 0.2 FT (6 CM) BELOW GROUND SURFACE.

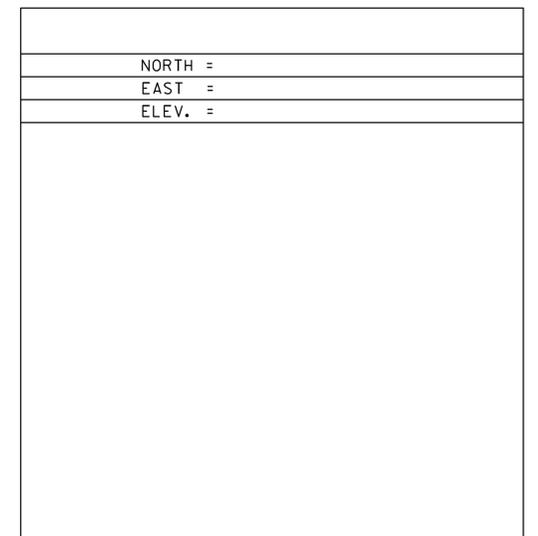
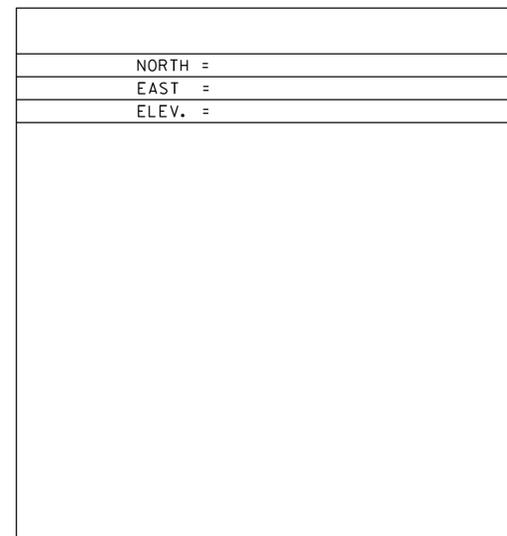
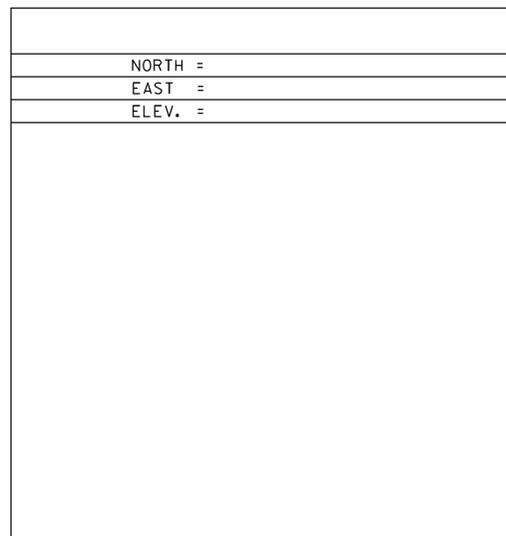
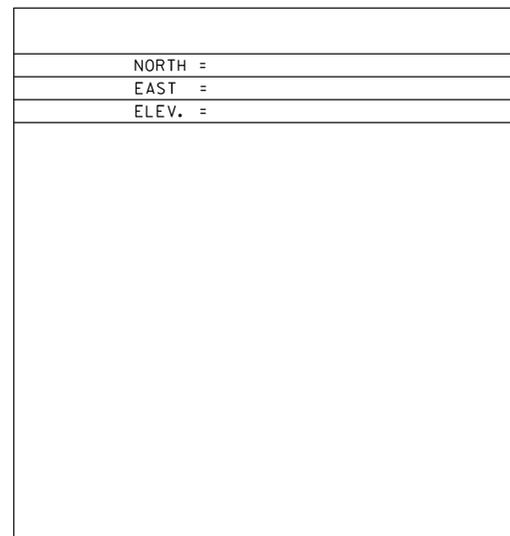
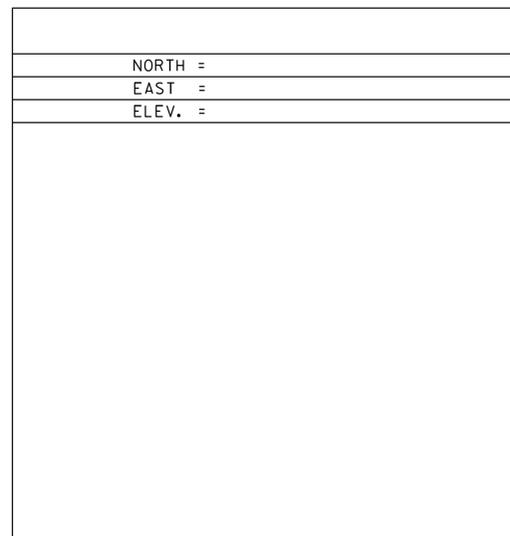
IT IS 4.8 METERS NORTHWEST OF CENTERLINE OF BROWNS TRACE ROAD. 27.8 NORTHEAST CENTERLINE JERICO HIGHWAY DEPARTMENT ROAD. 14.0 SOUTH OF POLE #30/105.

SECONDARY CONTROL



*TRAVERSE COMPLETED ON 5/17/2021 BY R.GILMAN, B. HERRING & H.MCGOWAN

ALIGNMENT TIES



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

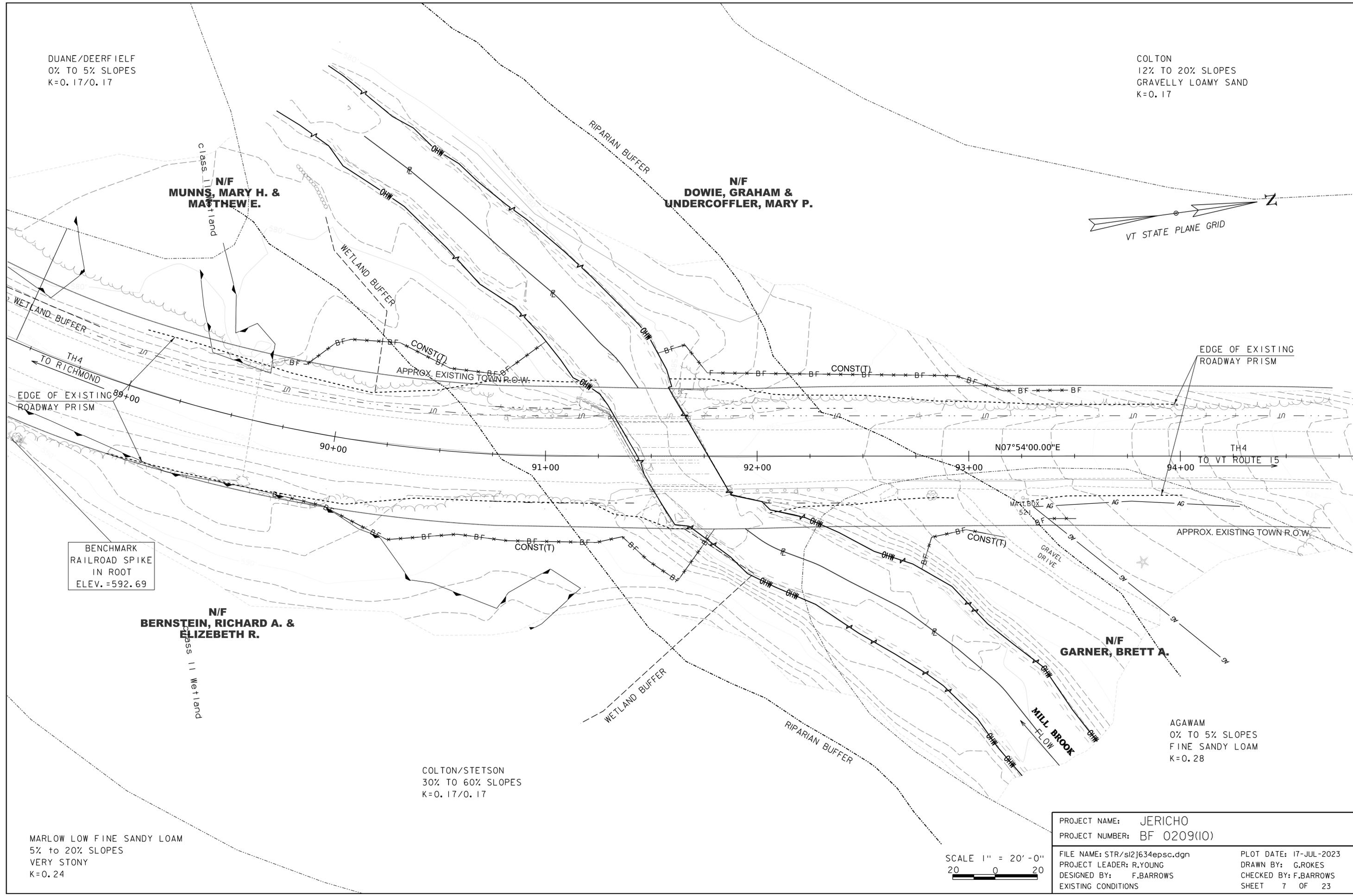
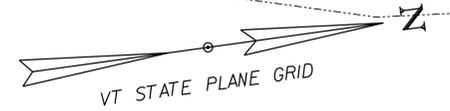
PROJECT NAME:	JERICO	PLOT DATE:	17-JUL-2023
PROJECT NUMBER:	BF 0209 (10)	DRAWN BY:	H.MCGOWAN
FILE NAME:	X12J634T.DGN	CHECKED BY:	R. GILMAN
PROJECT LEADER:	L.STONE	TIE SHEET	SHEET 6 OF 23
DESIGNED BY:	VTRANS		

DUANE/DEERFIELD  
0% TO 5% SLOPES  
K=0.17/0.17

COLTON  
12% TO 20% SLOPES  
GRAVELLY LOAMY SAND  
K=0.17

N/F  
MUNNS, MARY H. &  
MATTHEW E.

N/F  
DOWIE, GRAHAM &  
UNDERCOFFLER, MARY P.



WETLAND-BUFFER  
TH4  
TO RICHMOND  
EDGE OF EXISTING  
ROADWAY PRISM

BENCHMARK  
RAILROAD SPIKE  
IN ROOT  
ELEV. =592.69

N/F  
BERNSTEIN, RICHARD A. &  
ELIZABETH R.

EDGE OF EXISTING  
ROADWAY PRISM

APPROX. EXISTING TOWN R.O.W.

N/F  
GARNER, BRETT A.

COLTON/STETSON  
30% TO 60% SLOPES  
K=0.17/0.17

AGAWAM  
0% TO 5% SLOPES  
FINE SANDY LOAM  
K=0.28

MARLOW LOW FINE SANDY LOAM  
5% TO 20% SLOPES  
VERY STONY  
K=0.24

PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: STR/sl2j634epsc.dgn	PLOT DATE: 17-JUL-2023
PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: F.BARROWS	CHECKED BY: F.BARROWS
EXISTING CONDITIONS	SHEET 7 OF 23

SCALE 1" = 20'-0"  
20 0 20

COARSE MILLING, BITUMINOUS PAVEMENT  
 STA. 89+75.00 TO 90+25.00  
 STA. 93+00.00 TO 93+50.00

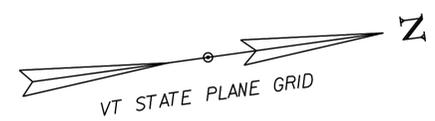
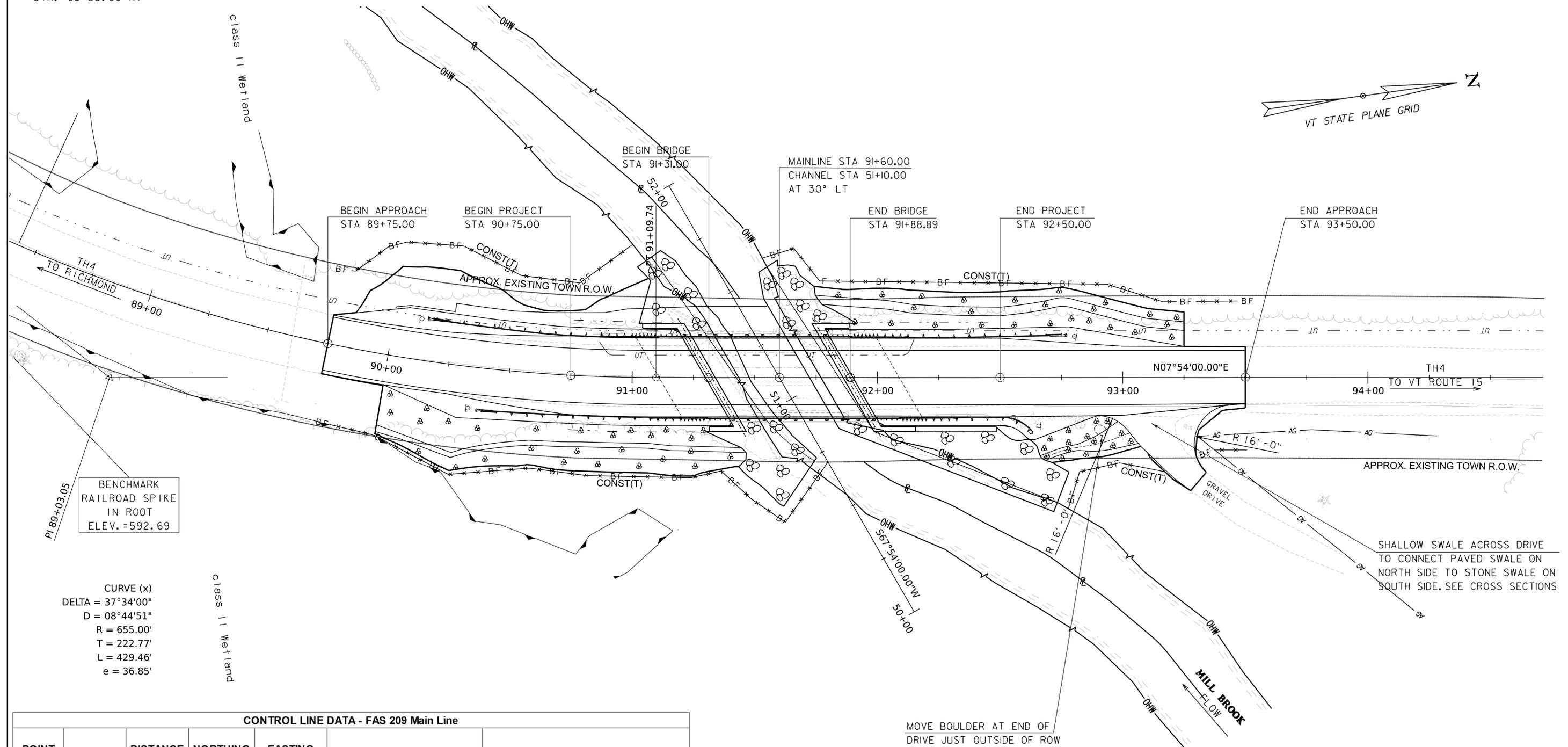
STONE LINED DITCH  
 STA. 90+00 TO 91+40 RT  
 STA. 91+80 TO 92+73 LT

SPECIAL PROVISION (CONCRETE RETAINING  
 WALL)  
 STA. 92+15.60 TO 92+45.00 RT

CONSTRUCT DRIVEWAY APRON W/ 2"  
 PAVEMENT, 12" SUBBASE  
 STA. 93+00.00 - 93+25.00 RT

STONE LINED SWALE  
 STA. 92+63 TO 92+99 RT

REMOVE AND RESET MAILBOX,  
 SINGLE SUPPORT  
 STA. 93+25.60 RT



PI 89+03.05  
 BENCHMARK  
 RAILROAD SPIKE  
 IN ROOT  
 ELEV. = 592.69

CURVE (x)  
 DELTA = 37°34'00"  
 D = 08°44'51"  
 R = 655.00'  
 T = 222.77'  
 L = 429.46'  
 e = 36.85'

Class II Wetland

CONTROL LINE DATA - FAS 209 Main Line

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
	N45.467°E	80.285'	708965.959	1516029.725							
	N7.900°E	683.120'	709178.497	1516245.754	8680.285	8903.052	9109.743	37.567°	655.000'	429.459'	222.768'
			709855.134	1516339.645		9570.096					

EXISTING BRIDGE INFORMATION  
 SINGLE SPAN CONCRETE T-BEAM  
 BUILT 1927, RECONSTRUCTED 1962  
 MAX SPAN = 38'

MOVE BOULDER AT END OF  
 DRIVE JUST OUTSIDE OF ROW

SCALE 1" = 20'-0"  
 20 0 20

PROJECT NAME: JERICHO  
 PROJECT NUMBER: BF 0209(10)  
 FILE NAME: STR/sl2j634bdr.dgn  
 PROJECT LEADER: R.YOUNG  
 DESIGNED BY: F.BARROWS  
 PLAN LAYOUT  
 PLOT DATE: 17-JUL-2023  
 DRAWN BY: G.ROKES  
 CHECKED BY: F.BARROWS  
 SHEET 8 OF 23

REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 90+80.00 - 91+20.00 LT  
 STA. 90+80.00 - 91+20.00 RT  
 STA. 90+80.00 - 91+20.00 LT  
 STA. 90+80.00 - 91+20.00 RT

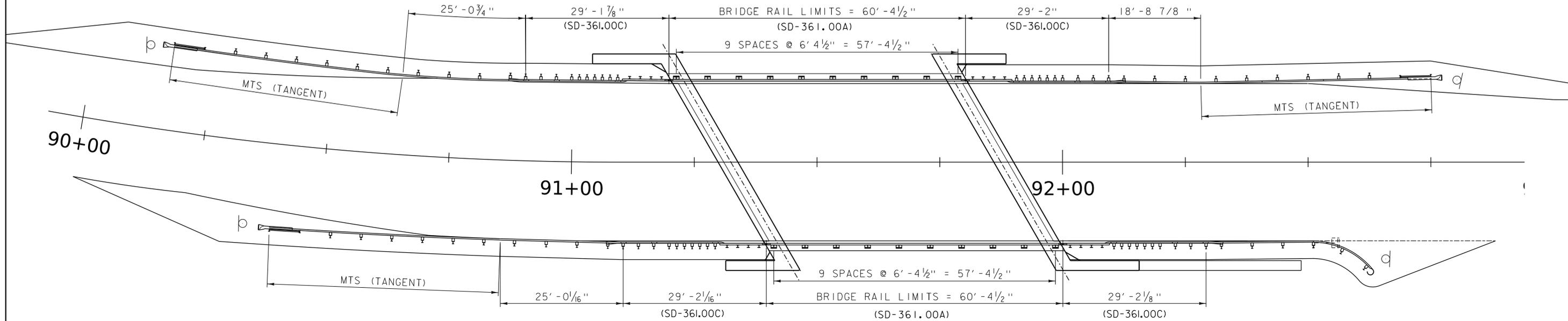
ANCHOR FOR STEEL BEAM GUARDRAIL  
 STA. 92+55.46 RT  
 BRIDGE RAILING, GALVANIZED 3  
 RAIL BOX BEAM  
 STA. 91+19.84 TO 91+80.22 LT  
 STA. 91+39.68 TO 92+00.05 RT

GUARDRAIL APPROACH SECTION,  
 GALVANIZED 3 RAIL BOX BEAM  
 STA. 90+90.16 TO 91+19.94 LT  
 STA. 91+10.51 TO 91+39.68 RT  
 STA. 91+80.22 TO 92+09.39 LT  
 STA. 92+00.05 TO 92+29.23 RT

MANUFACTURED TERMINAL SECTION,  
 TANGENT  
 STA. 90+16.41 TO 90+64.49 LT  
 STA. 90+40.18 TO 90+86.09 RT  
 STA. 92+28.13 TO 92+75.00 LT

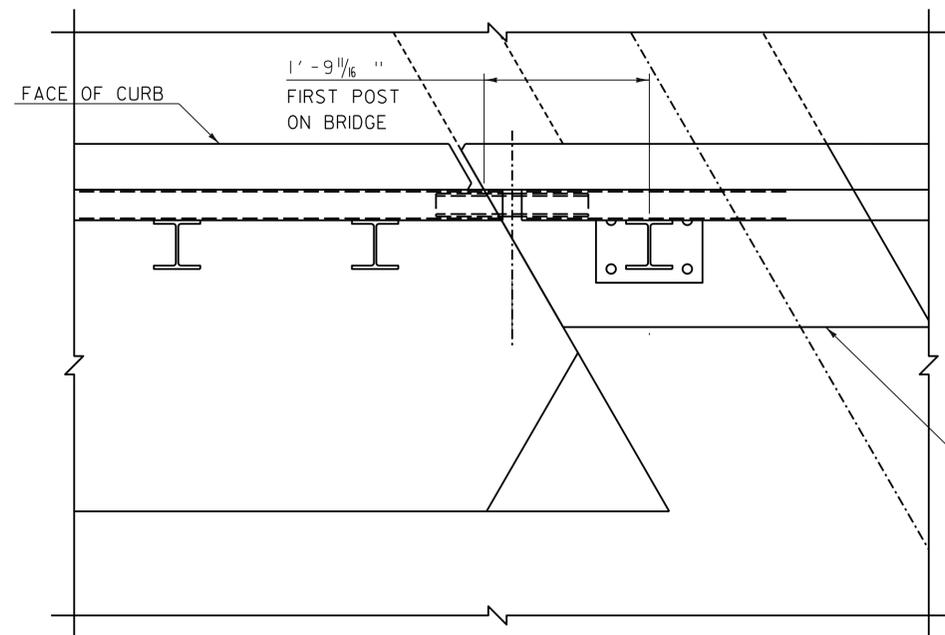
DELINEATOR WITH STEEL POST  
 STA. 90+10 (GREEN) LT  
 STA. 90+35 (BLUE) RT  
 STA. 92+65 (GREEN) RT  
 STA. 92+80 (BLUE) LT

HD, STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 90+64.49 TO 90+90.16 LT  
 STA. 90+86.09 TO 91+10.51 RT  
 STA. 92+09.40 TO 92+28.14 LT  
 STA. 92+29.23 TO 92+61.32 RT



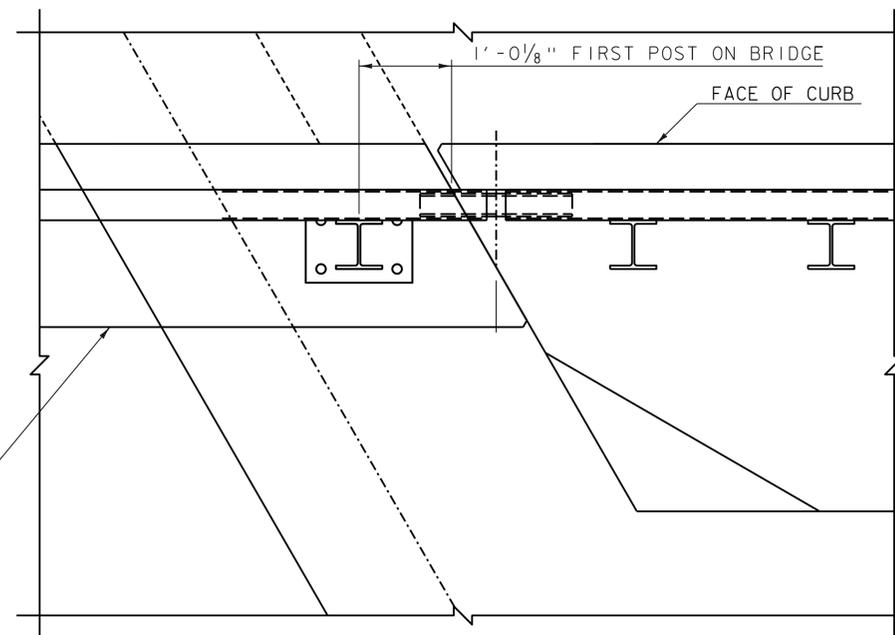
**GUARDRAIL LAYOUT**

SCALE 1" = 10'-0"



**ACUTE CORNER BRIDGE END**

SCALE 1" = 2'-0"



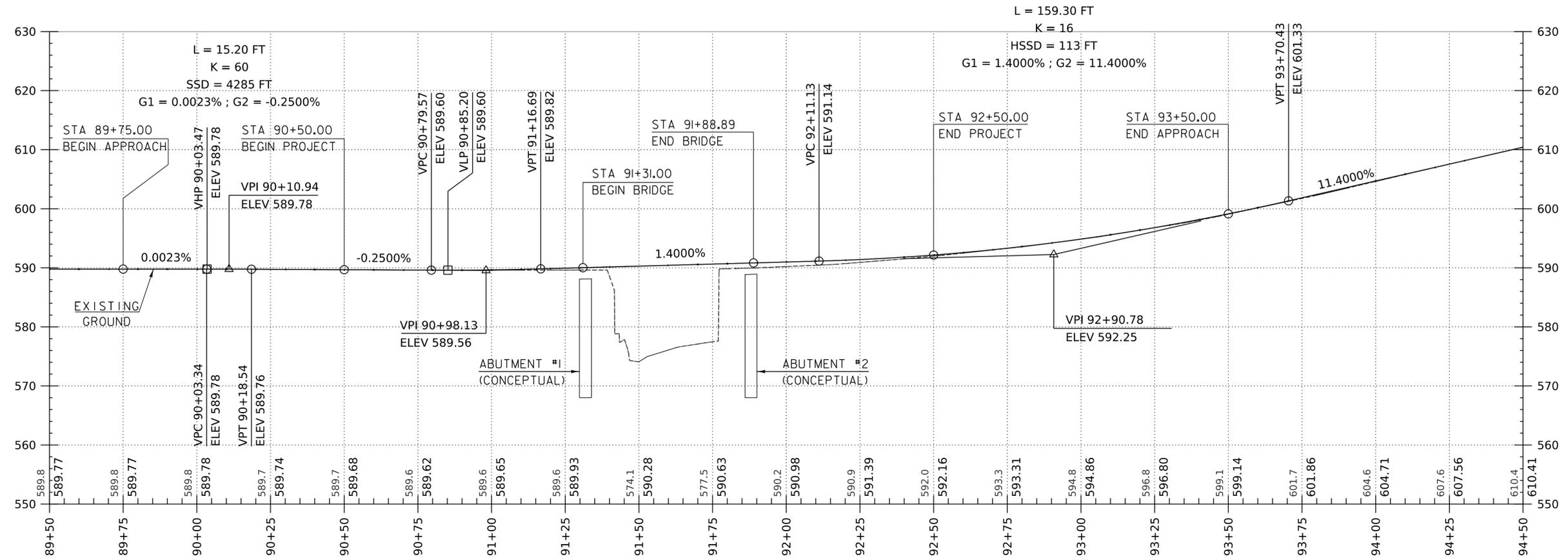
**OBTUSE CORNER BRIDGE END**

SCALE 1" = 2'-0"

PROJECT NAME: JERICO  
 PROJECT NUMBER: BF 0209(10)

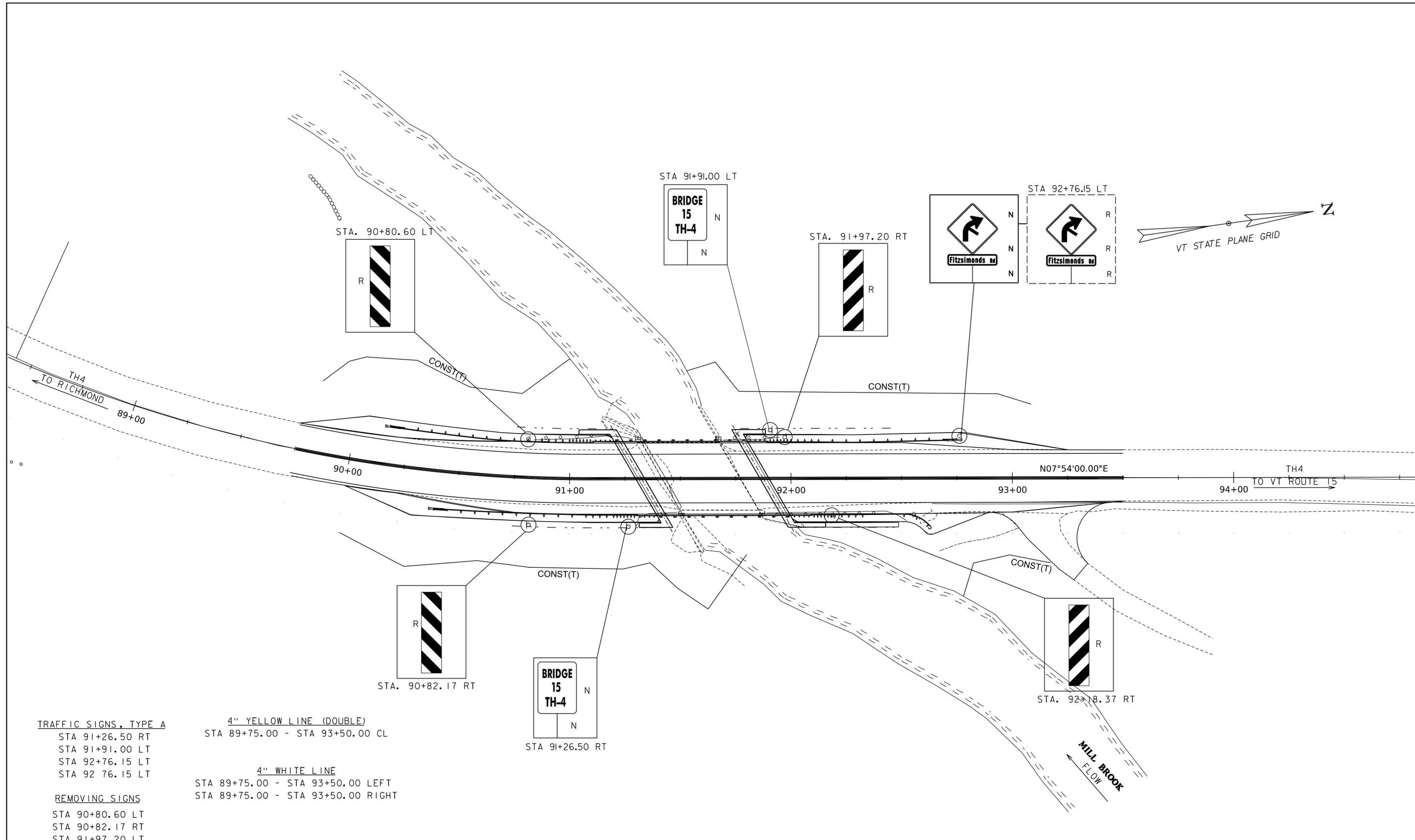
FILE NAME: ppms#/Section/-----dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: A. MANN  
 GUARDRAIL LAYOUT

PLOT DATE: 17-JUL-2023  
 DRAWN BY: F. BARROWS  
 CHECKED BY: A. MANN  
 SHEET 9 OF 23



FAS ROUTE 209 PROFILE

PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: sl2j634pro.dgn	PLOT DATE: 17-JUL-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: F. BARROWS
PROFILE	SHEET 10 OF 23



**TRAFFIC SIGNS, TYPE A**  
 STA 91+26.50 RT  
 STA 91+91.00 LT  
 STA 92+76.15 LT  
 STA 92 76.15 LT

**REMOVING SIGNS**  
 STA 90+80.60 LT  
 STA 90+82.17 RT  
 STA 91+97.20 LT  
 STA 92+18.37 RT  
 STA 92+76.15 LT

**4" YELLOW LINE (DOUBLE)**  
 STA 89+75.00 - STA 93+50.00 CL

**4" WHITE LINE**  
 STA 89+75.00 - STA 93+50.00 LEFT  
 STA 89+75.00 - STA 93+50.00 RIGHT

**BRIDGE 15 TH-4**  
 N  
 N  
 STA 91+26.50 RT

**SIGNING LEGEND**  
 R = REMOVE  
 R&S = REMOVE AND SALVAGE  
 S = SALVAGE  
 N = NEW

PROJECT NAME: JERICO	
PROJECT NUMBER: BF 0209 (10)	
FILE NAME: sl2j634signs.dgn	PLOT DATE: 17-JUL-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: A. MANN
DESIGNED BY: A. MANN	CHECKED BY: F. BARROWS
SIGN LAYOUT	SHEET II OF 23



**SOIL CLASSIFICATION**

**AASHTO**

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

**ROCK QUALITY DESIGNATION**

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

**SHEAR STRENGTH**

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

**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

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

**COMMONLY USED SYMBOLS**

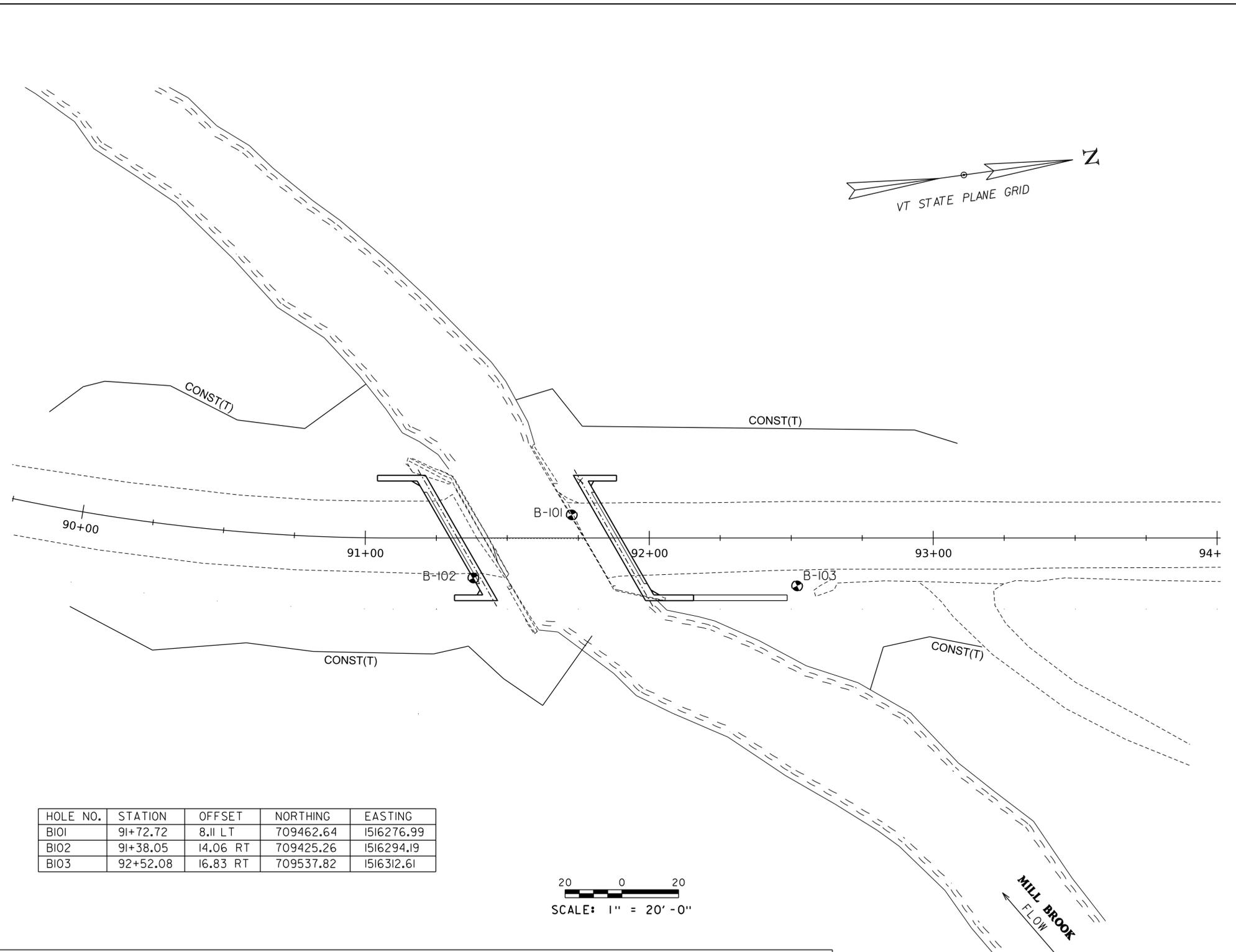
- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊕ Auger Boring
- ⊕ Rod Sounding
- ⊕ Sample
- N Standard Penetration Test  
Blow Count Per Foot For:  
2" O.D. Sampler  
1 3/8" I.D. Sampler  
Hammer Weight Of 140 Lbs.  
Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
-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

**COLOR**

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

**DEFINITIONS (AASHTO)**

- BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.
- BOULDER - A rock fragment with an average dimension > 12 inches.
- COBBLE - Rock fragments with an average dimension between 3 and 12 inches.
- GRAVEL - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
- SAND - Particles of rock < 0.075" (#10 sieve) and > 0.0029" (#200 sieve).
- SLT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
- VARVED - Alternate layers of silt and clay.
- HARDPAN - Extremely dense soil, cemented layer, not softened when wet.
- MUCK - Soft organic soil (containing > 10% organic material).
- MOISTURE CONTENT - Weight of water divided by dry weight of soil.
- FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
- STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP - Inclination of bed with a horizontal plane.



HOLE NO.	STATION	OFFSET	NORTHING	EASTING
B101	91+72.72	8.11 LT	709462.64	1516276.99
B102	91+38.05	14.06 RT	709425.26	1516294.19
B103	92+52.08	16.83 RT	709537.82	1516312.61

20 0 20  
SCALE: 1" = 20' - 0"

**GENERAL NOTES**

1. The subsurface explorations shown herein were made between 07/07/2021 and 07/17/2021 and between 02/15/2023 and 03/02/2023 by the Agency.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209 (10)

FILE NAME: sj2j634bor.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
BORING INFORMATION SHEET

PLOT DATE: 17-JUL-2023  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 13 OF 23

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101				
		Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 1 of 3		Pin No.: 121634				
		Checked By: AJA								
Boring Crew: Judkins, Emerson, Arles		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 7/07/21 Date Finished: 7/13/21		I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 709462.64 ft E 1516276.99 ft		Hammer Wt: N.A. 140 lb.		07/07/21		1.8 WT After Drilling				
Station: 91+73 Offset: 8.1 LT		Hammer Fall: N.A. 30 in.		07/12/21		0.4 WT Before Drilling				
Ground Elevation: 589.67 ft		Rig: CME 55 TRACK CE = 1.52		07/13/21		6.4 WT After Drilling				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (min/ft)	Blows/6' (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-1.1		Visual Description: Asphalt 0.0'-0.95'				9-10-9-8 (19)				
1.1-5.0		Visual Description: GrSa, brn, Moist, Rec. = 1.1 ft, Field Note: NXDC Cleanout 4.0'-5.0'								
5.0-9.1		Field Note, No Recovery. Gravel in end of sampler, Rollercone Cleanout 9.1'-10.0'				6-4-4-6 (8)				
9.1-13.3		Visual Description: SiSa w/ gravel, gry, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 11.3' 50 blows/6". NXDC Cleanout 13.3'-15.0'				4-9-8-4 (8)				
13.3-19.7		Visual Description: Si, gry, Moist, Rec. = 1.1 ft, Field Note: Rollercone Cleanout 19.7'-20.0'				8-8-12-16 (20)				
19.7-24.7		Visual Description: Si, Lt/brn, Moist, Rec. = 1.5 ft, Field Note: NXDC Cleanout 24.7'-25.0'				11-19-20-23 (39)				
24.7-28.8		Visual Description: Si, gry, Moist, Rec. = 1.5 ft, Field Note: Apparent Boulder 27.0'-29.0'. NXDC Cleanout 28.8'-30.0'				5-21-34-38 (55)				
28.8-33.5		A-4, Si, gry, Moist, Rec. = 1.7 ft, Field Note: Rollercone Cleanout 33.5'-35.0'				15-18-30-31 (48)	24.7	0.1	2.5	97.4
33.5-36.8		Visual Description: Cisi, gry, Moist, Rec. = 1.4 ft, Field Note: Refusal @ 36.8' 100 blows. Rollercone Cleanout 39.3'-40.0'				13-25-39-R04" (64)				
36.8-41.8		A-4, Si, Lt/brn, Moist, Rec. = 1.5 ft, Field Note: Refusal @ 41.8' 100 blows.				12-23-32-R04" (55)	23.7	1.0	17.5	81.5
41.8-46.8		Visual Description: Si, brn, Moist, Rec. = 1.2 ft, Field Note: Refusal @ 46.8' 100 blows				10-20-45-R04" (68)				

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101				
		Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 2 of 3		Pin No.: 121634				
		Checked By: AJA								
Boring Crew: Judkins, Emerson, Arles		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 7/07/21 Date Finished: 7/13/21		I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 709462.64 ft E 1516276.99 ft		Hammer Wt: N.A. 140 lb.		07/07/21		1.8 WT After Drilling				
Station: 91+73 Offset: 8.1 LT		Hammer Fall: N.A. 30 in.		07/12/21		0.4 WT Before Drilling				
Ground Elevation: 589.67 ft		Rig: CME 55 TRACK CE = 1.52		07/13/21		6.4 WT After Drilling				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (min/ft)	Blows/6' (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.2		Visual Description: SaSi, gry, Moist, Rec. = 0.2 ft, Field Note: Refusal @ 50.2 10 blows no movement. NXDC Cleanout 59.3'-60.0'				R02" (R)				
0.2-61.3		A-4, Si, gry, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 61.3' 100 blows. NXDC Cleanout 69.0'-70.0'				25-42-R03" (8)	24.5	1.9	10.5	87.6
61.3-70.8		Visual Description: Si, gry, Moist, Rec. = 0.8 ft, Field Note: Refusal @ 70.8' 50 blows per 6". NXDC Cleanout 77.7'-80.0'				26-R04" (R)				
70.8-81.8		A-4, SaSi, Lt/brn, Moist, Rec. = 1.4 ft, Field Note: Refusal @ 81.8' 100 blows. NXDC Cleanout 88.8'-90.0'				19-26-36-R04" (42)	17.9	19.3	27.5	53.2
81.8-98.0		A-4, SaSi, Lt/brn, Moist, Rec. = 1.5 ft, Field Note: NXDC Cleanout 98.0'-100.0'				11-21-27-32 (48)	27.2	3.3	37.9	58.8

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101				
		Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 3 of 3		Pin No.: 121634				
		Checked By: AJA								
Boring Crew: Judkins, Emerson, Arles		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 7/07/21 Date Finished: 7/13/21		I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 709462.64 ft E 1516276.99 ft		Hammer Wt: N.A. 140 lb.		07/07/21		1.8 WT After Drilling				
Station: 91+73 Offset: 8.1 LT		Hammer Fall: N.A. 30 in.		07/12/21		0.4 WT Before Drilling				
Ground Elevation: 589.67 ft		Rig: CME 55 TRACK CE = 1.52		07/13/21		6.4 WT After Drilling				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (min/ft)	Blows/6' (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-1.4		Visual Description: Si, Lt/brn, Moist, Rec. = 1.4 ft, Field Note: Refusal @ 101.7' 100 blows. NXDC Cleanout 108.5'-110.0'				10-22-35-R02" (57)				
1.4-110.1		Visual Description: Si Broken Rock, Lt/brn, Moist, Rec. = 0.1 ft, Field Note: Refusal @ 110.1' 10 blows no movement	R-1	0	3	R01" (R)				Top of Bedrock @ 110.1 ft
110.1-115.0		110.1 ft - 115.0 ft, NXMDC 115'-120'. No Recovery. NXMDC			3					
115.0-120.0		115.0 ft - 120.0 ft, NXMDC 115'-120'. No Recovery. NXMDC	R-2	0	5					
120.0-120.1		Visual Description: Si Broken Rock, Lt/brn, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 120' no movement			4	R04" (R)				Hole stopped @ 120.1 ft
120.1-120.1		Hole collapsed @ 32.9'			4					

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

ABUT 1 BOT ELEV 579.00

EST PILE TIP ELEV 479.57

PROJECT NAME: JERICO  
PROJECT NUMBER: BF 0209 (10)  
FILE NAME: sl2j634bor.dgn PLOT DATE: 17-JUL-2023  
PROJECT LEADER: R. YOUNG DRAWN BY: A. MANN  
DESIGNED BY: A. MANN CHECKED BY: F. BARROWS  
BORING LOGS 1 SHEET 14 OF 23

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102				
		Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 1 of 3		Pin No.: 12j634				
		Checked By: AJA								
Boring Crew: Judkins, Brochu, Emerson		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 7/13/21 Date Finished: 7/17/21		Type: I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 709425.26 ft E 1516294.19 ft		Hammer Wt: N.A. 140 lb.		07/13/21		1.5 WT After Drilling				
Station: 91+38 Offset: 14.1 RT		Hammer Fall: N.A. 30 in.		07/14/21		1.0 WT Before Drilling				
Ground Elevation: 589.64 ft		Hammer/Rod Type: Auto/AWJ		07/17/21		4.8 WT After Drilling				
		Rig: CME 55 TRACK CE = 1.52								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0		0.0 ft - 1.1 ft, Field Note: Asphalt 0.0'-1.1'								
0.7		Visual Description: SaGr, brn, Moist, Rec. = 0.7 ft, Field Note: Asphalt grindings. Rollercone Cleanout 3.9'-5.0'				15-18-12-10 (30)				
5.0		Visual Description: GrSa, brn, Moist, Rec. = 1.0 ft, Field Note: Rollercone Cleanout 8.1'-10.0'				5-7-8-6 (15)				
10.0		Visual Description: SaGr, brn, Moist, Rec. = 0.6 ft, Field Note: NXDC Cleanout 11.7'-15.0'. Apparent Concrete 14.0'-18.0'				15-17-13-8 (30)				
20.0		A-4, Si, brn, Moist, Rec. = 1.3 ft				8-12-14-26 (26)	20.4	1.5		98.5
25.0		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft, Field Note: Refusal @ 26.8' 100 blows. NXDC Cleanout 29.0'-30.0'				14-24-30-30-4 (54)	20.8	4.1	66.9	29.0
30.0		A-4, SaSi, brn, Moist, Rec. = 1.3 ft, Field Note: Refusal @ 31.6' 100 blows. Rollercone Cleanout 34.3'-35.0'				19-30-45-11-1 (75)	16.6	15.0	36.7	48.3
35.0		A-4, Si, brn, Moist, Rec. = 1.1 ft, Field Note: Refusal @ 36.2' 10 blows no movement. Rollercone Cleanout 36.5'-40.0'				10-30-30-2 (R)	24.3	1.7	12.9	85.4
40.0		Visual Description: Si, brn, Moist, Rec. = 0.9 ft, Field Note: Refusal @ 40.9' 50 blows per 6". NXDC Cleanout 48.8'-50.0'				25-25-5 (R)				

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102				
		Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 2 of 3		Pin No.: 12j634				
		Checked By: AJA								
Boring Crew: Judkins, Brochu, Emerson		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 7/13/21 Date Finished: 7/17/21		Type: I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 709425.26 ft E 1516294.19 ft		Hammer Wt: N.A. 140 lb.		07/13/21		1.5 WT After Drilling				
Station: 91+38 Offset: 14.1 RT		Hammer Fall: N.A. 30 in.		07/14/21		1.0 WT Before Drilling				
Ground Elevation: 589.64 ft		Hammer/Rod Type: Auto/AWJ		07/17/21		4.8 WT After Drilling				
		Rig: CME 55 TRACK CE = 1.52								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.7		Visual Description: GrSa, brn, Moist, Rec. = 0.7 ft, Field Note: Refusal @ 50.7' 50 blows per 6". NXDC Cleanout 59.2'-60.0'				41-41-5 (R)				
60.0		A-4, Si, brn, Moist, Rec. = 0.8 ft, Field Note: Refusal @ 60.8' 50 blows per 6". NXDC Cleanout 67.2'-70.0'				32-32-4 (R)	23.6	1.3	17.5	81.2
70.0		Visual Description: Si, brn, Moist, Rec. = 1.2 ft, Field Note: Refusal @ 71.2'. Rollercone Cleanout 78.2'-80.0'				30-35-30-2 (R)				
80.0		Visual Description: Si, Lt/brn, Moist, Rec. = 1.0 ft, Field Note: Refusal @ 81.7' 100 blows. Rollercone Cleanout 88.5'-90.0'				14-29-36-30-3 (35)				
90.0		A-4, GrSaSi, Lt/brn, Moist, Rec. = 1.0 ft, Field Note: Refusal @ 91.3' 100 blows. Field Note, Drilling was advanced from 91.3 to top of bedrock without sampling.				31-40-30-3 (R)	16.3	26.5	37.7	35.8

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

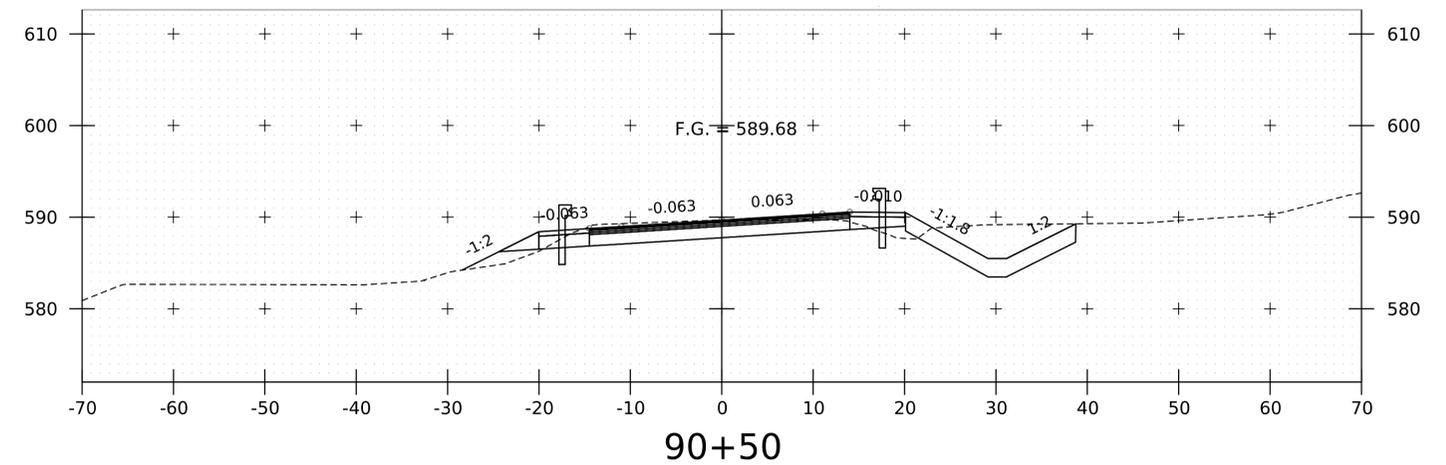
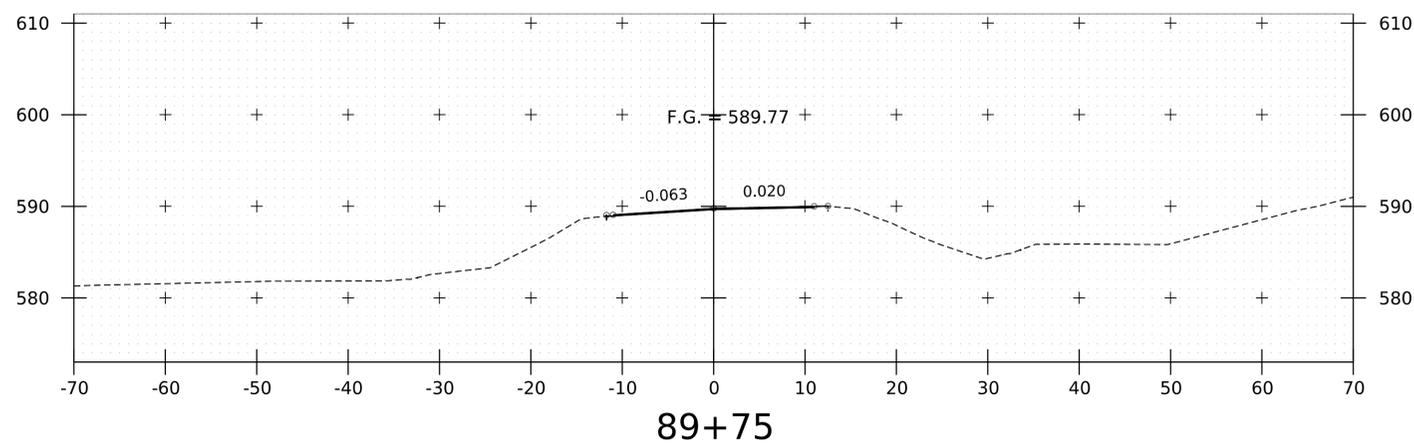
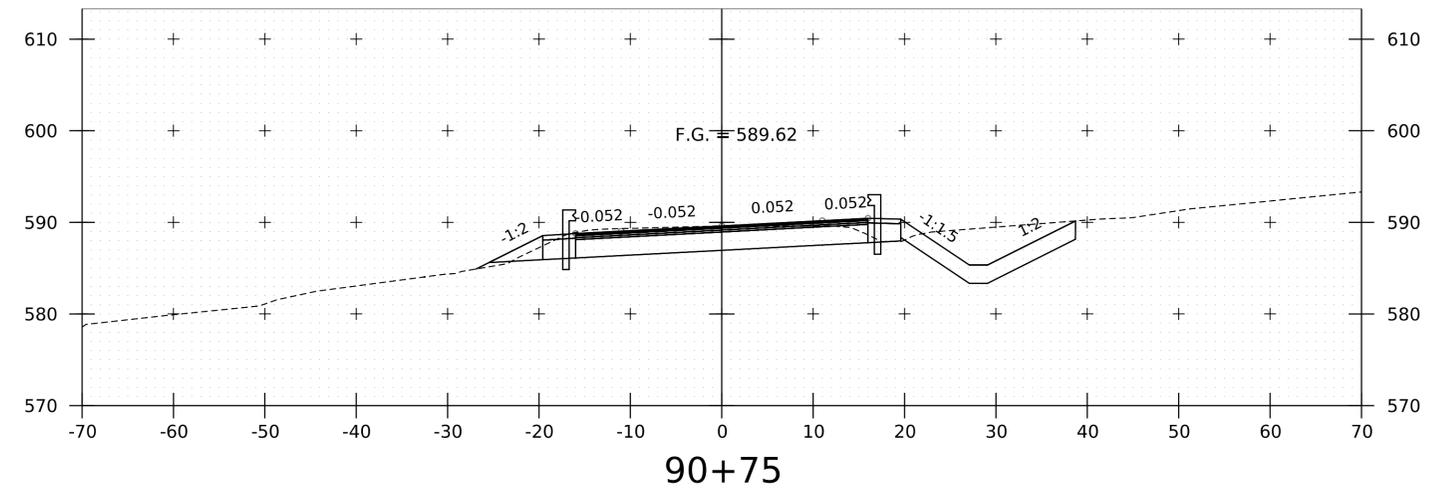
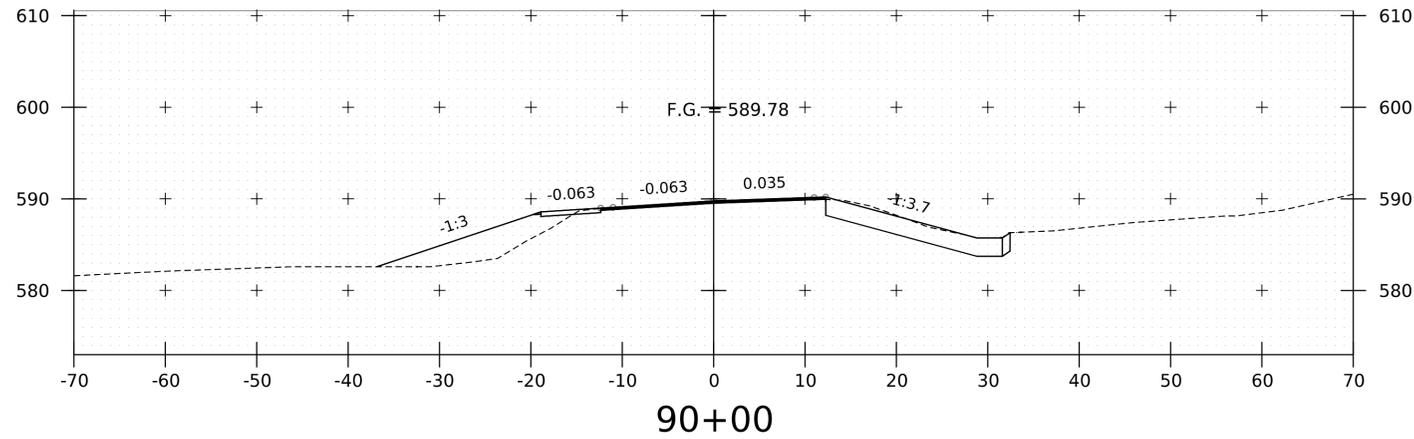
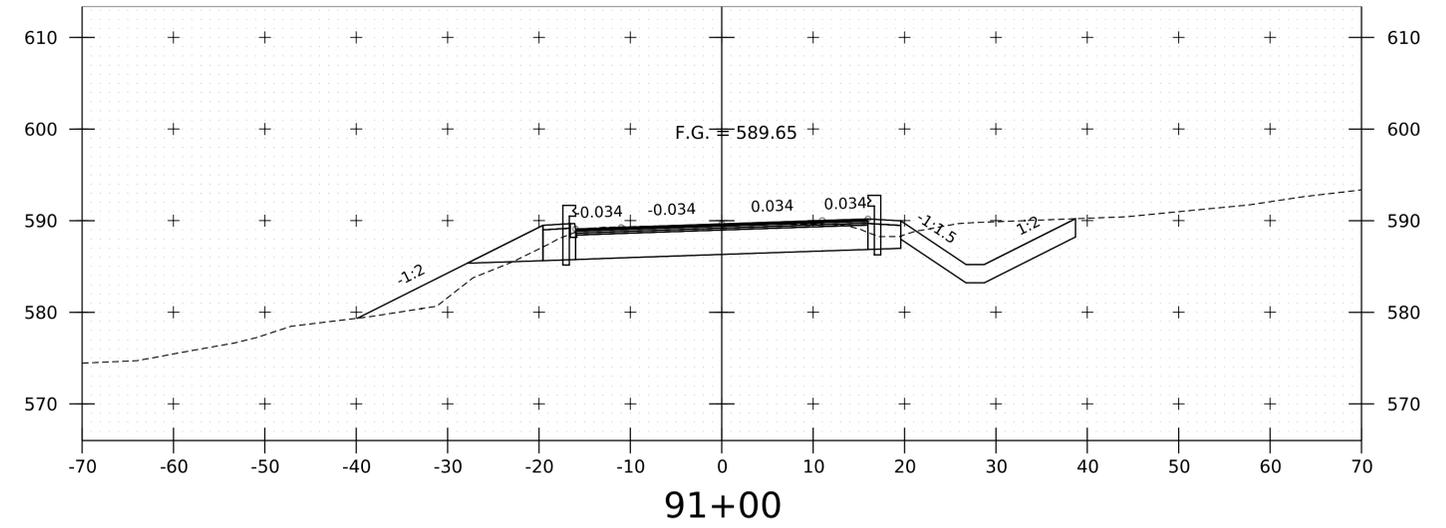
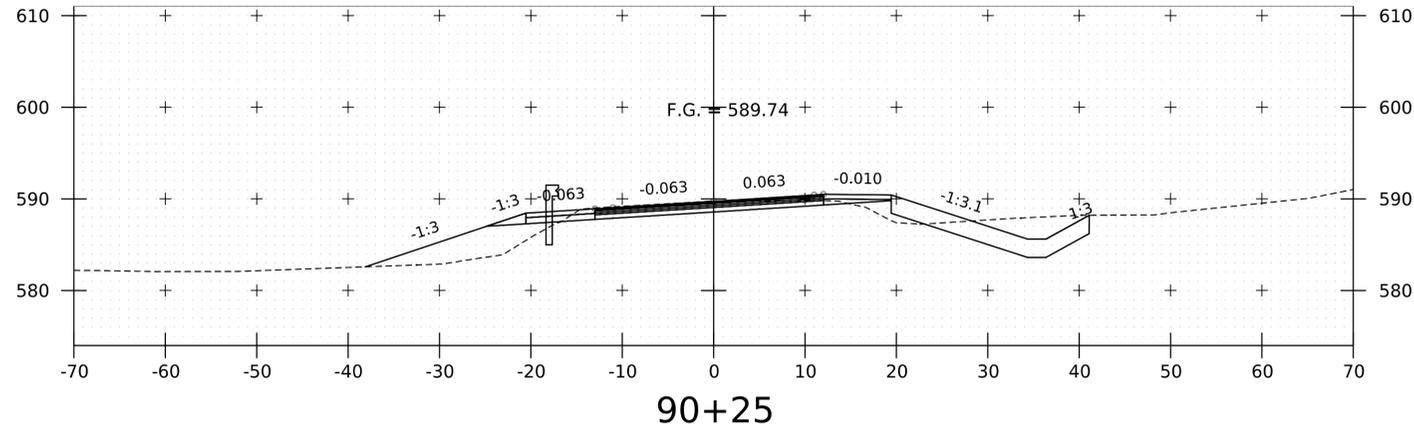
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102				
		Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 3 of 3		Pin No.: 12j634				
		Checked By: AJA								
Boring Crew: Judkins, Brochu, Emerson		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 7/13/21 Date Finished: 7/17/21		Type: I.D.: 4 in 1.5 in		Date		Depth (ft)				
VTSPG NAD83: N 709425.26 ft E 1516294.19 ft		Hammer Wt: N.A. 140 lb.		07/13/21		1.5 WT After Drilling				
Station: 91+38 Offset: 14.1 RT		Hammer Fall: N.A. 30 in.		07/14/21		1.0 WT Before Drilling				
Ground Elevation: 589.64 ft		Hammer/Rod Type: Auto/AWJ		07/17/21		4.8 WT After Drilling				
		Rig: CME 55 TRACK CE = 1.52								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
120.0		120.0 ft - 125.0 ft, NXMDC 120'-125'. Recovered rock was not examined for description. Based on quality of sample recovered, the rock is extremely weathered. NXMDC				R-1	20			
125.0		125.0 ft - 130.0 ft, NXMDC 125'-130'. Recovered rock was not examined for description. Based on quality of sample recovered, the rock is extremely weathered. NXMDC				R-2	20			
130.0		Hole stopped @ 130.0 ft								
135.0		Remarks: Hole Collapsed @ 4.8'								

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

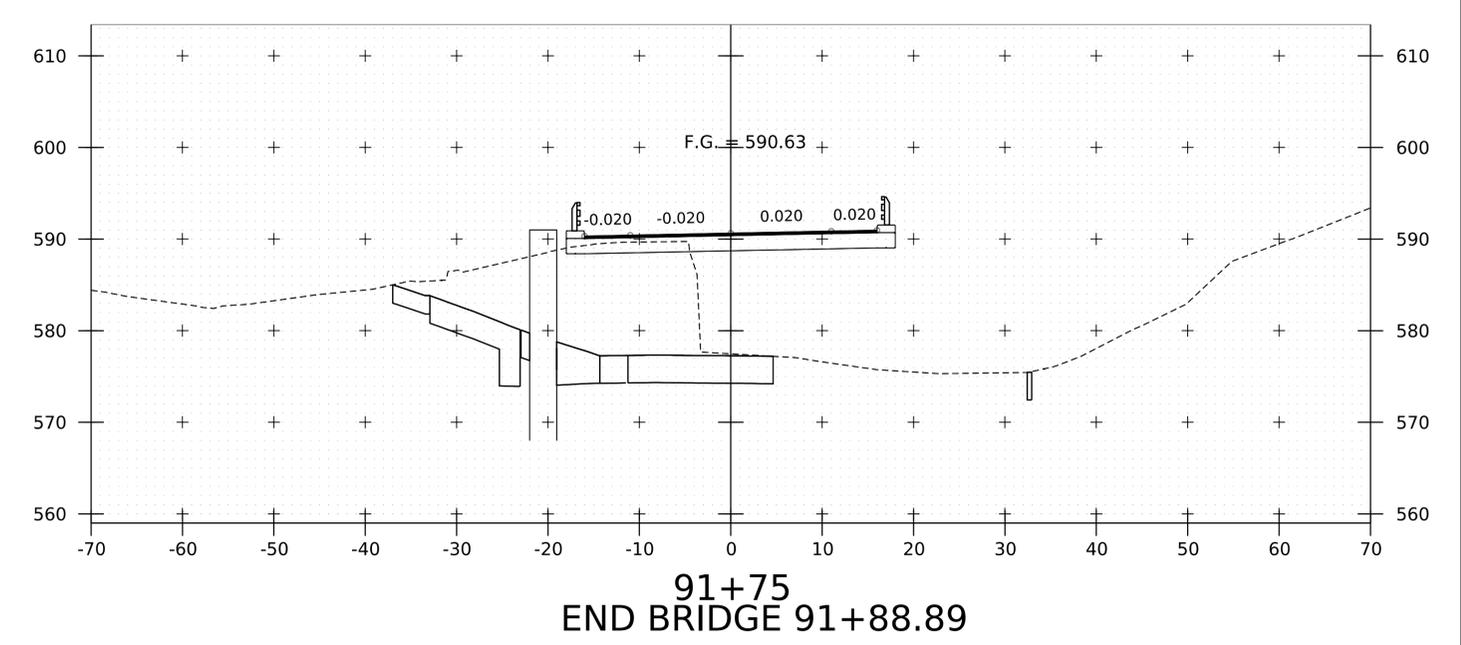
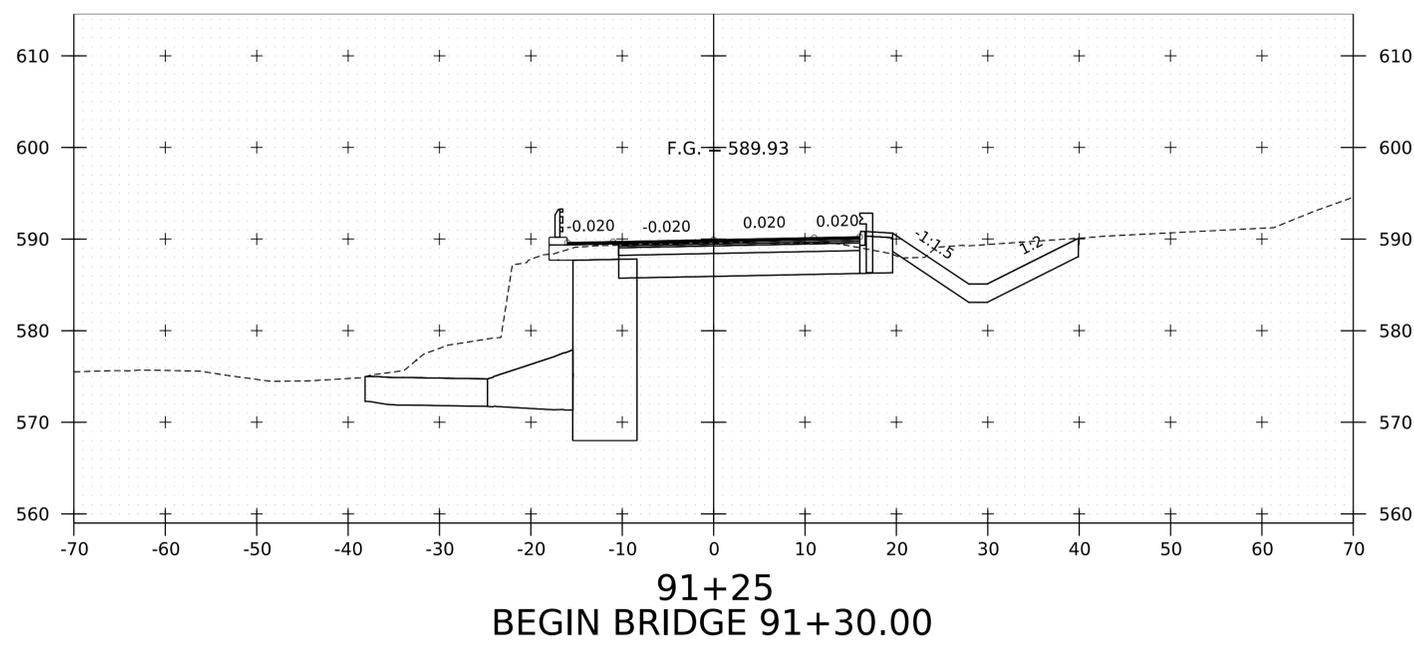
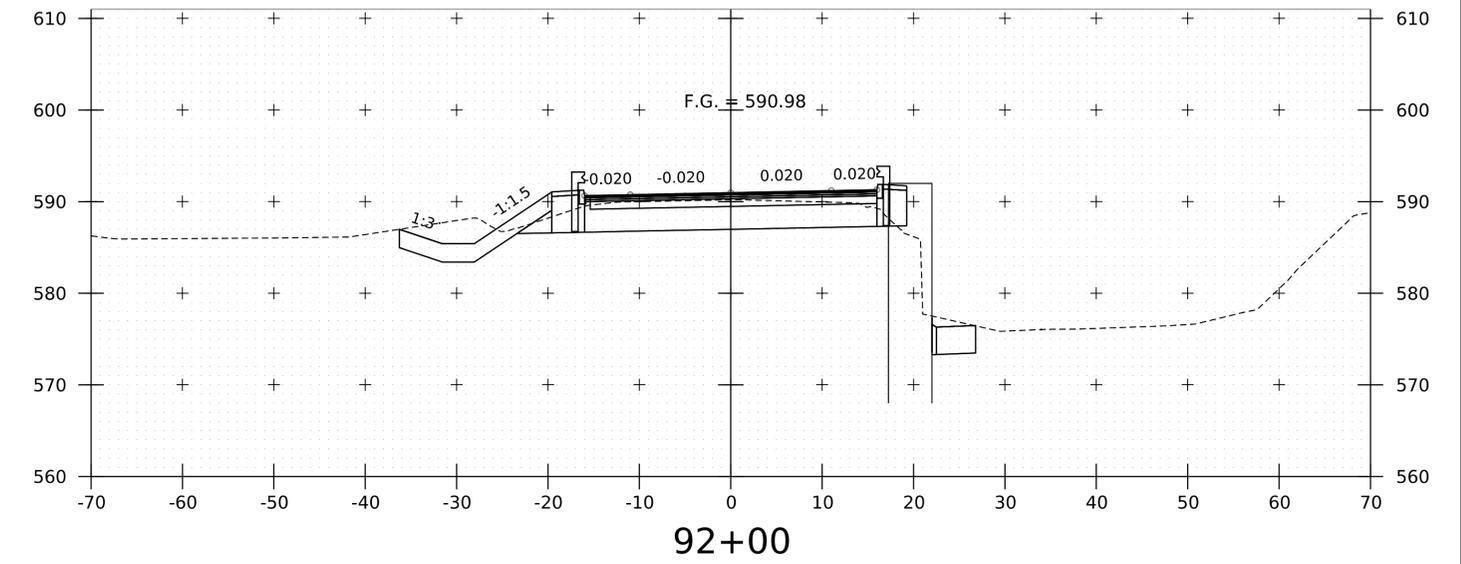
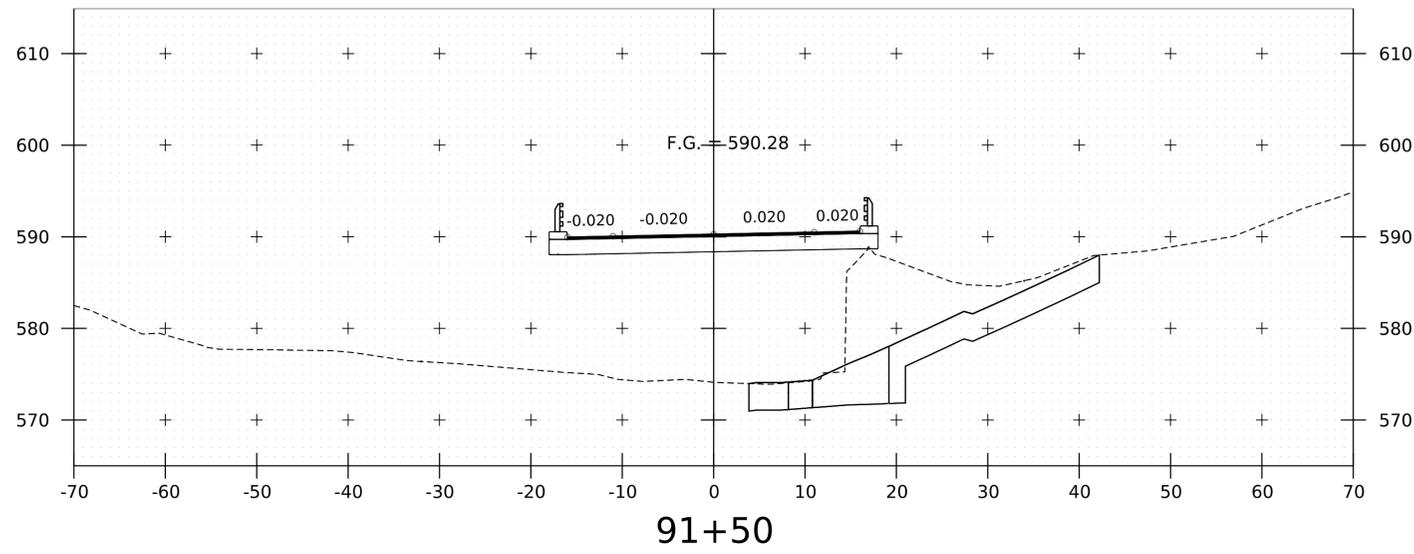
ABUT 2 BOT ELEV 579.00

EST PILE TIP ELEV 469.64

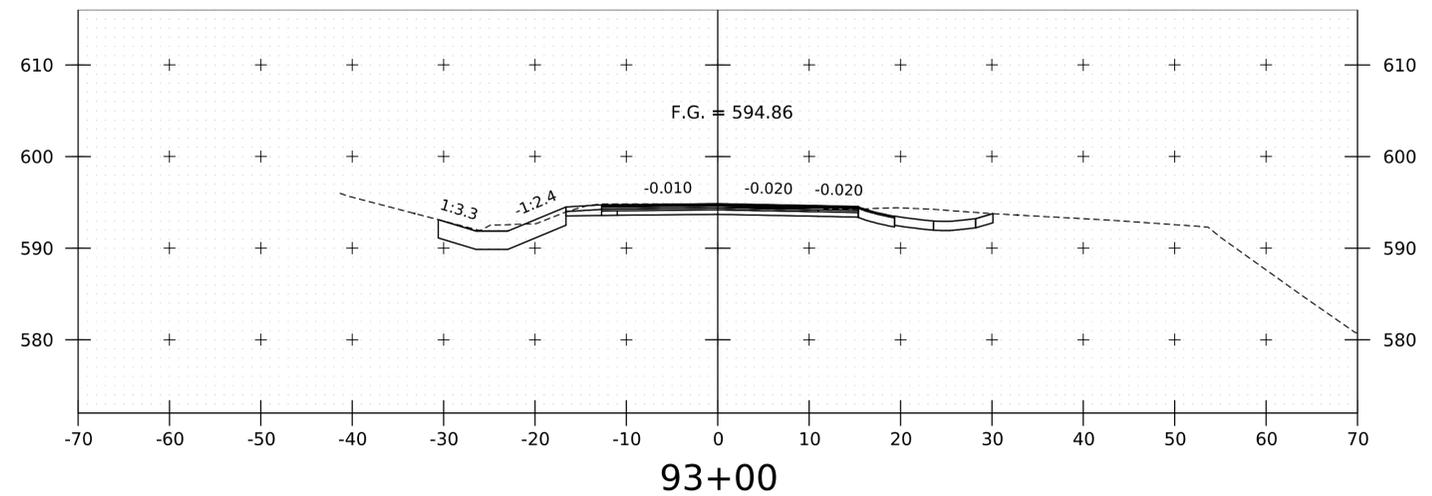
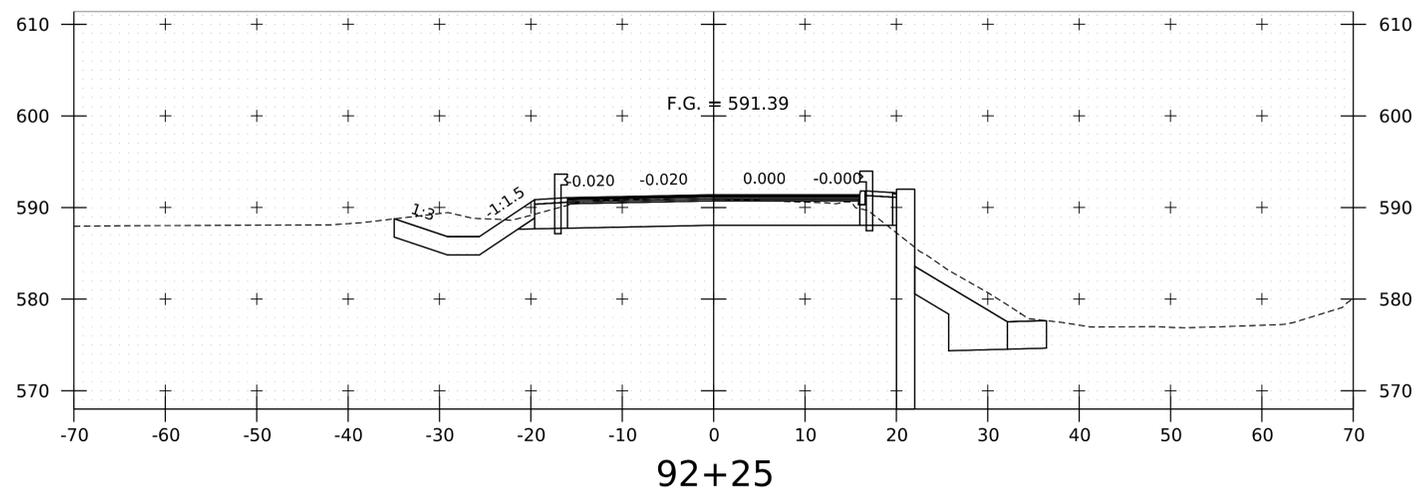
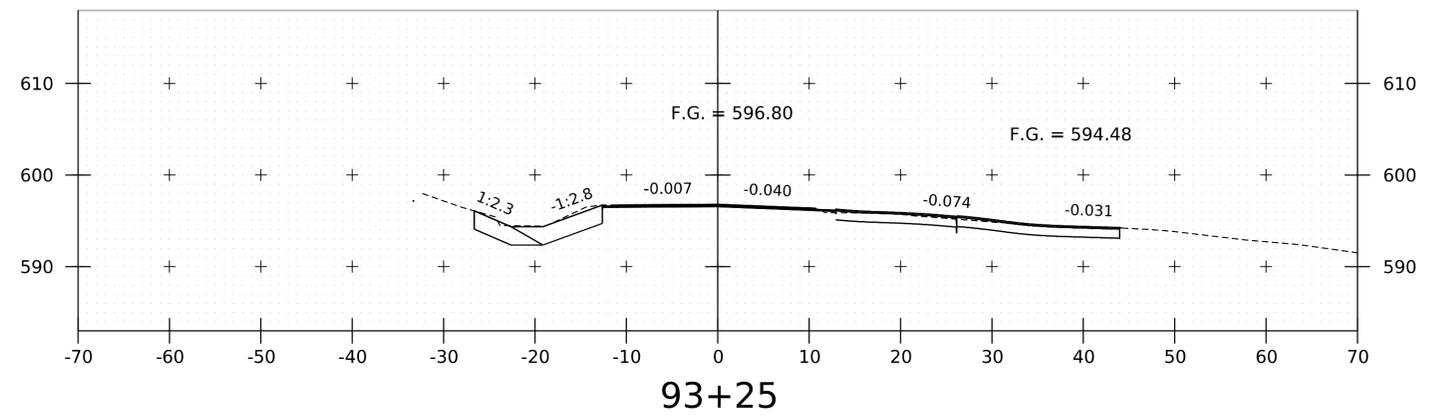
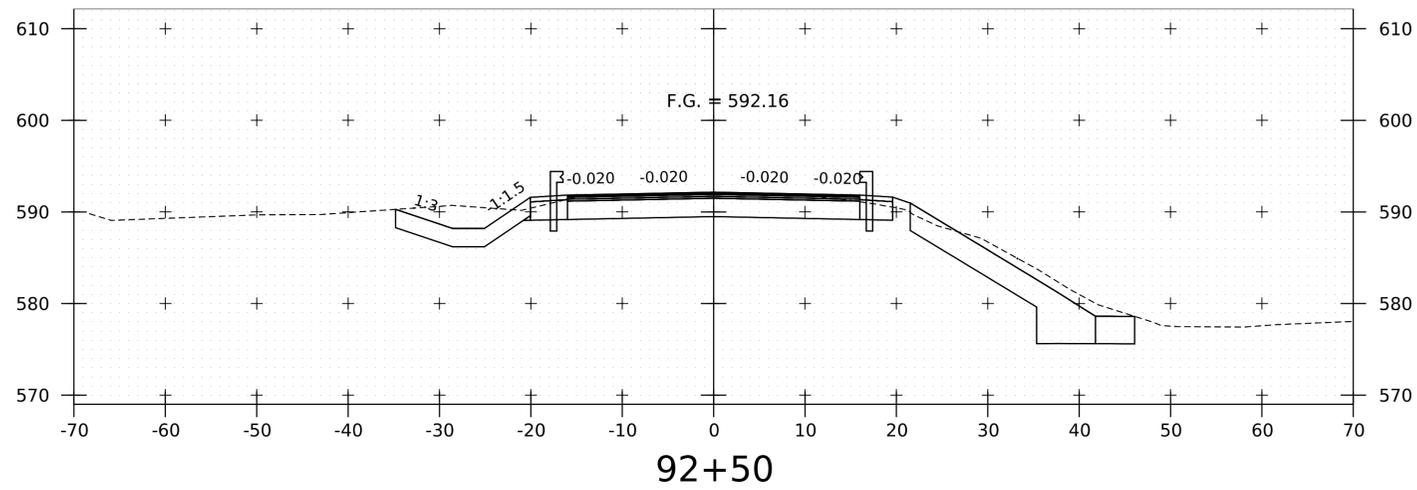
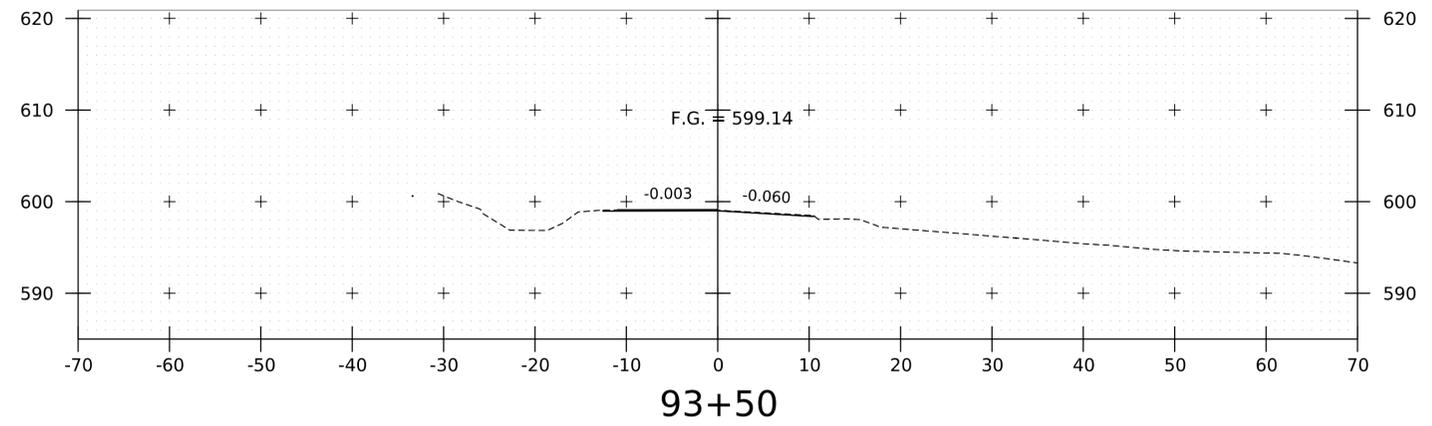
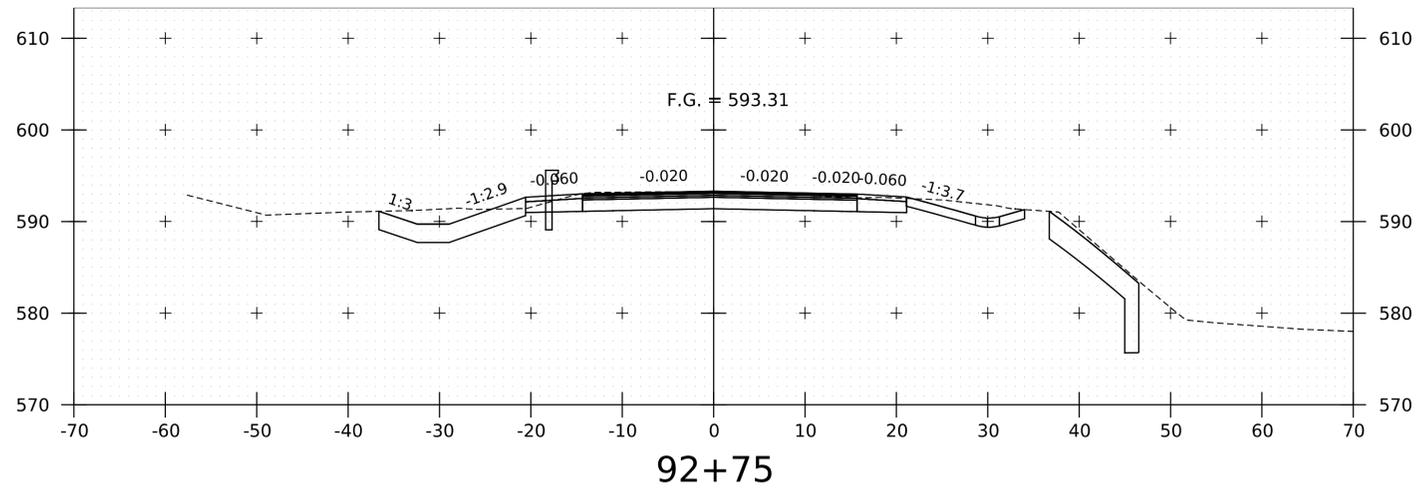
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PROJECT NUMBER: BF 0209 (10)  
FILE NAME: sj2j634bor.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
BORING LOGS 2  
PLOT DATE: 17-JUL-2023  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 15 OF 23



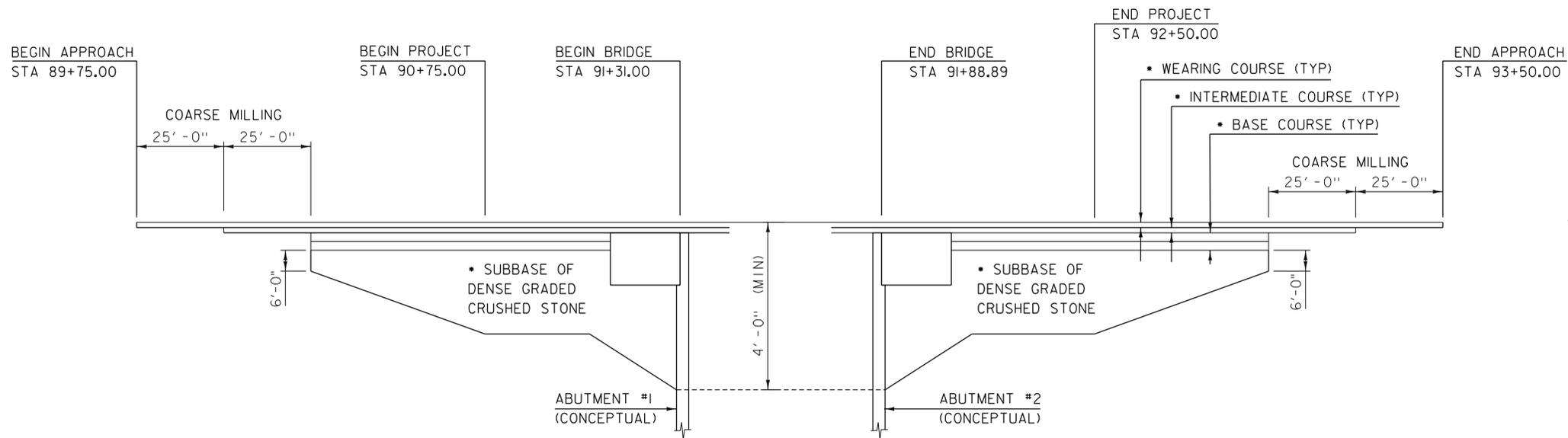
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PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/sl2j634xs.dgn	PLOT DATE: 17-JUL-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: F. BARROWS
MAINLINE SECTIONS SHEET 1	SHEET 16 OF 23



PROJECT NAME:	JERICHO	PLOT DATE:	17-JUL-2023
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	G. ROKES
FILE NAME:	I2j634/STR/sl2j634xs.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	SHEET	17 OF 23
DESIGNED BY:	G. ROKES		
MAINLINE SECTIONS SHEET 2			



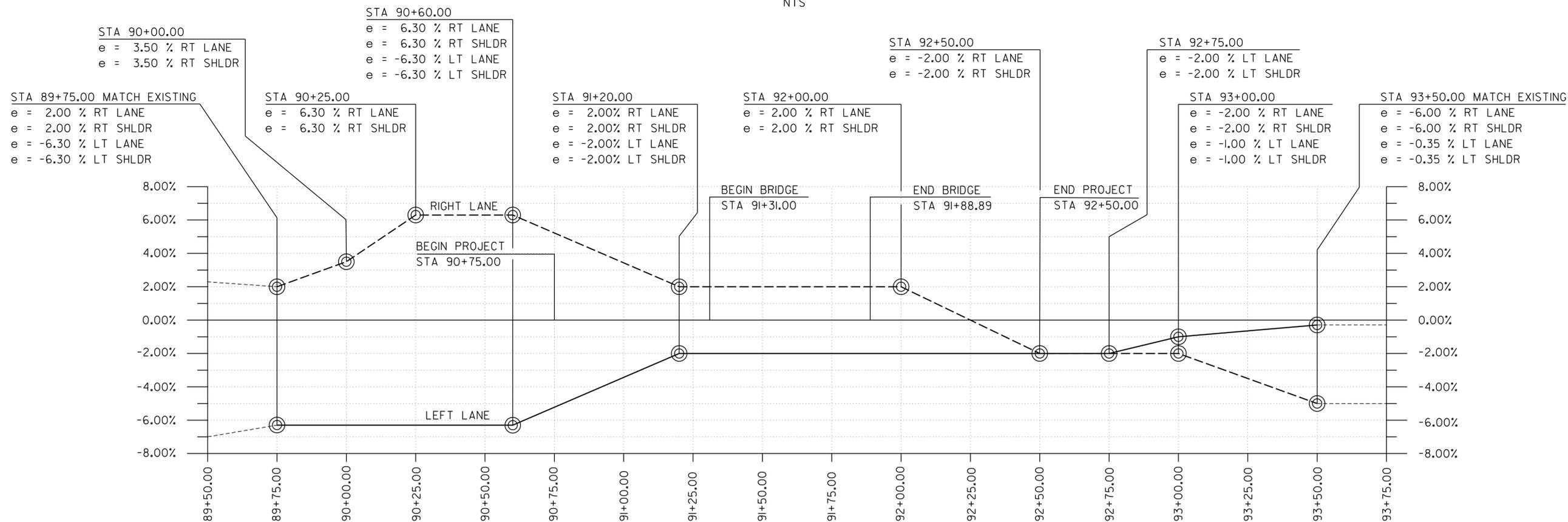
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PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	G.ROKES
FILE NAME:	I2j634/STR/sl2j634xs.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	SHEET	18 OF 23
DESIGNED BY:	G. ROKES		
MAINLINE SECTIONS SHEET 3			



• SEE TYPICALS SHEET FOR MATERIAL DEPTHS/THICKNESS

### MATERIAL TRANSITION

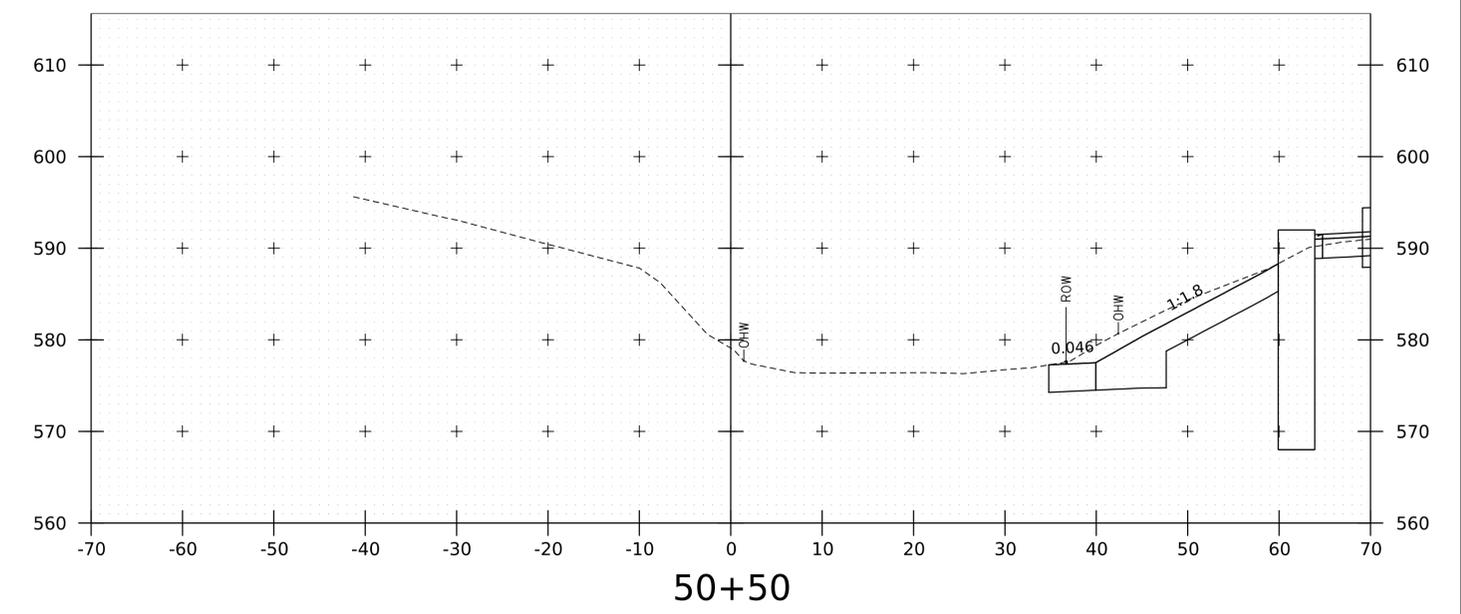
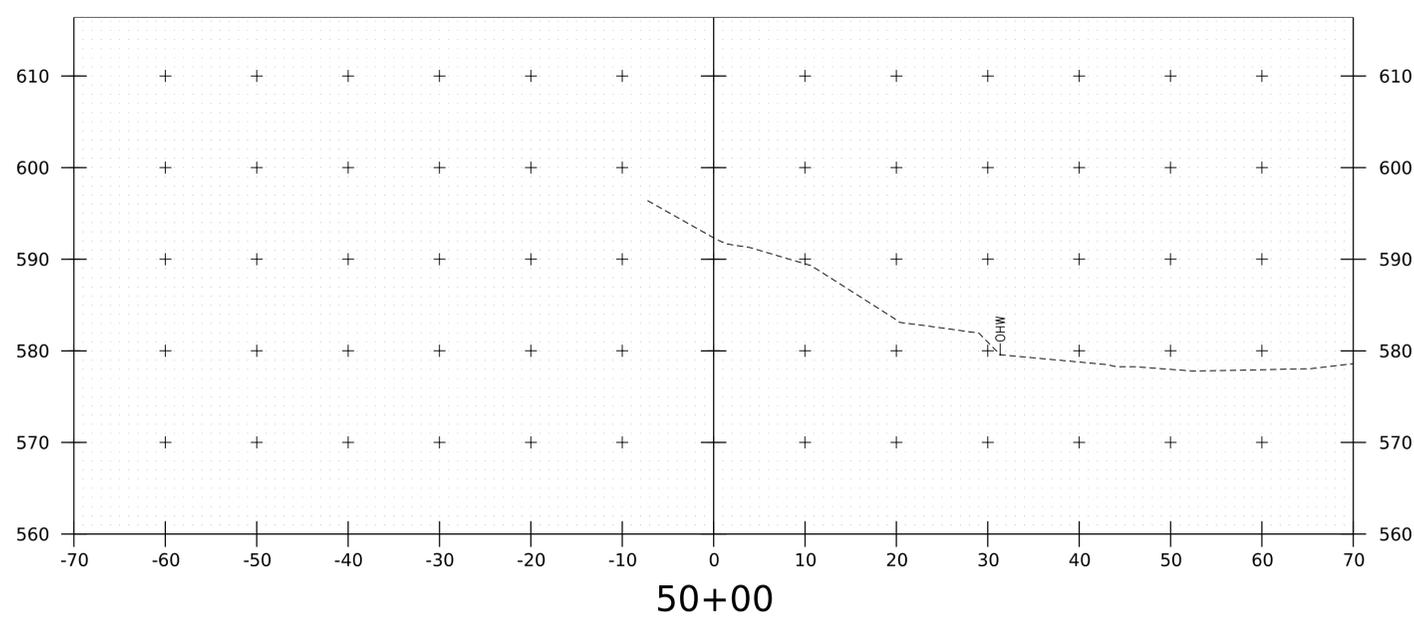
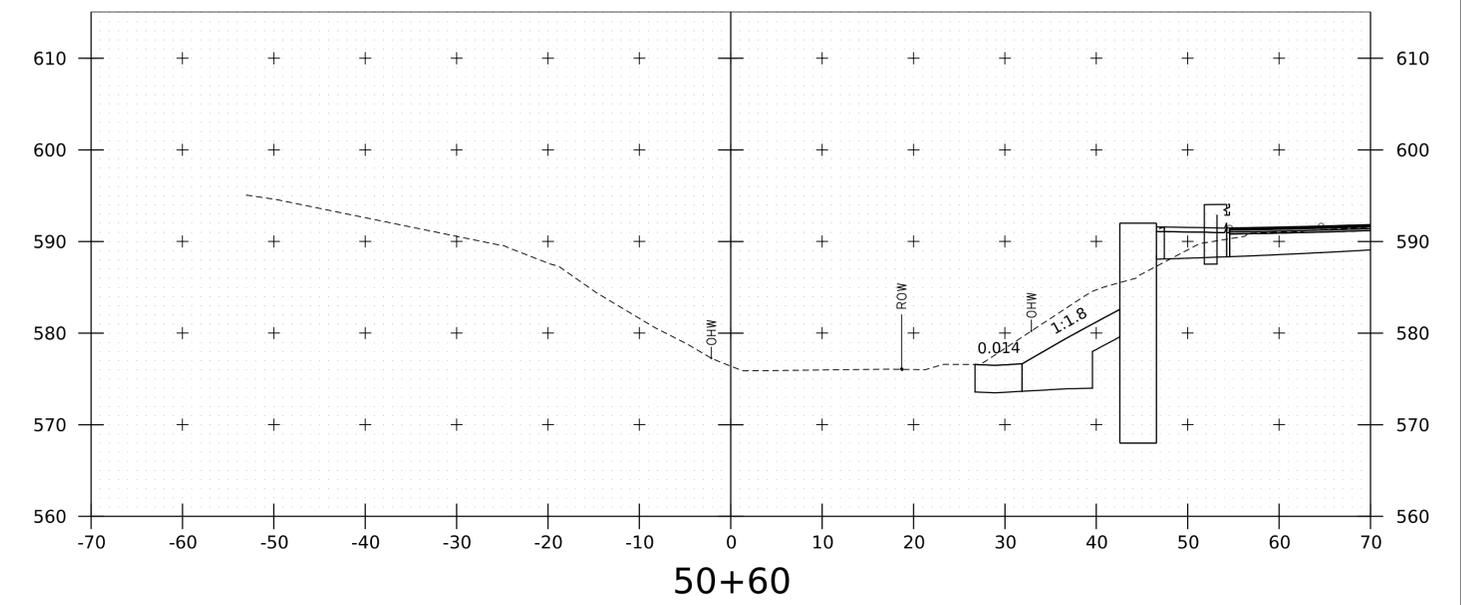
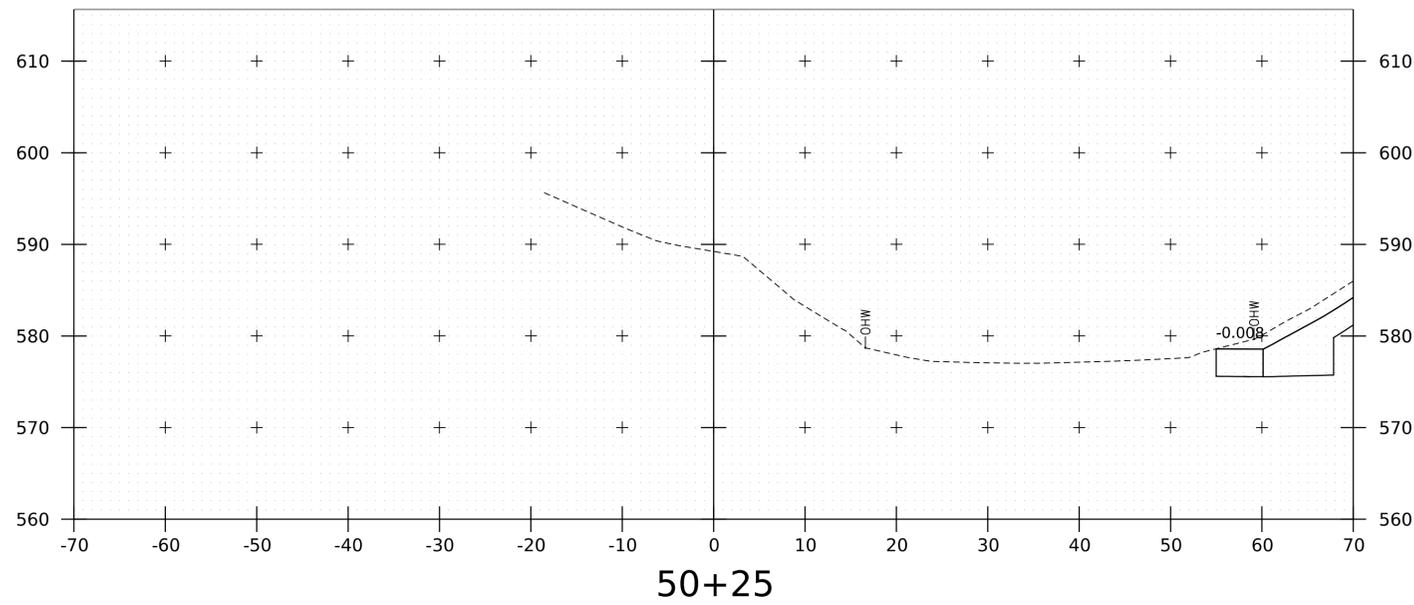
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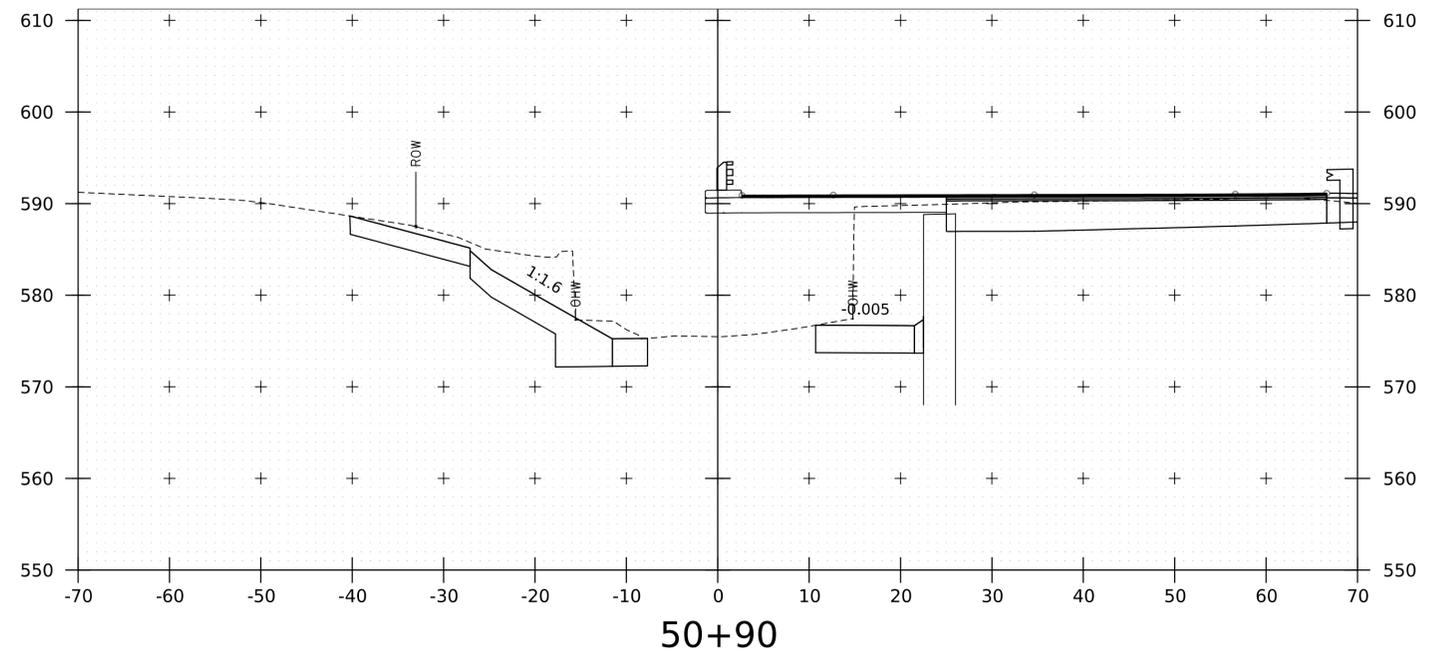
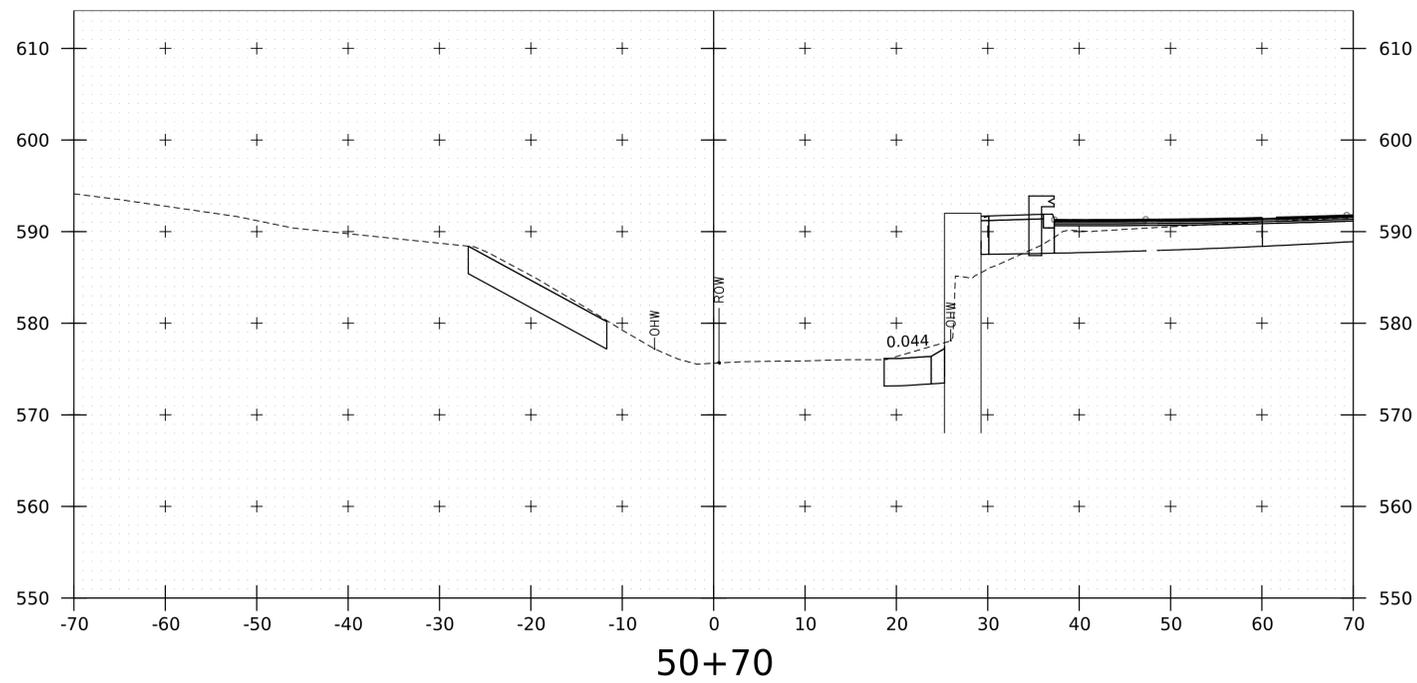
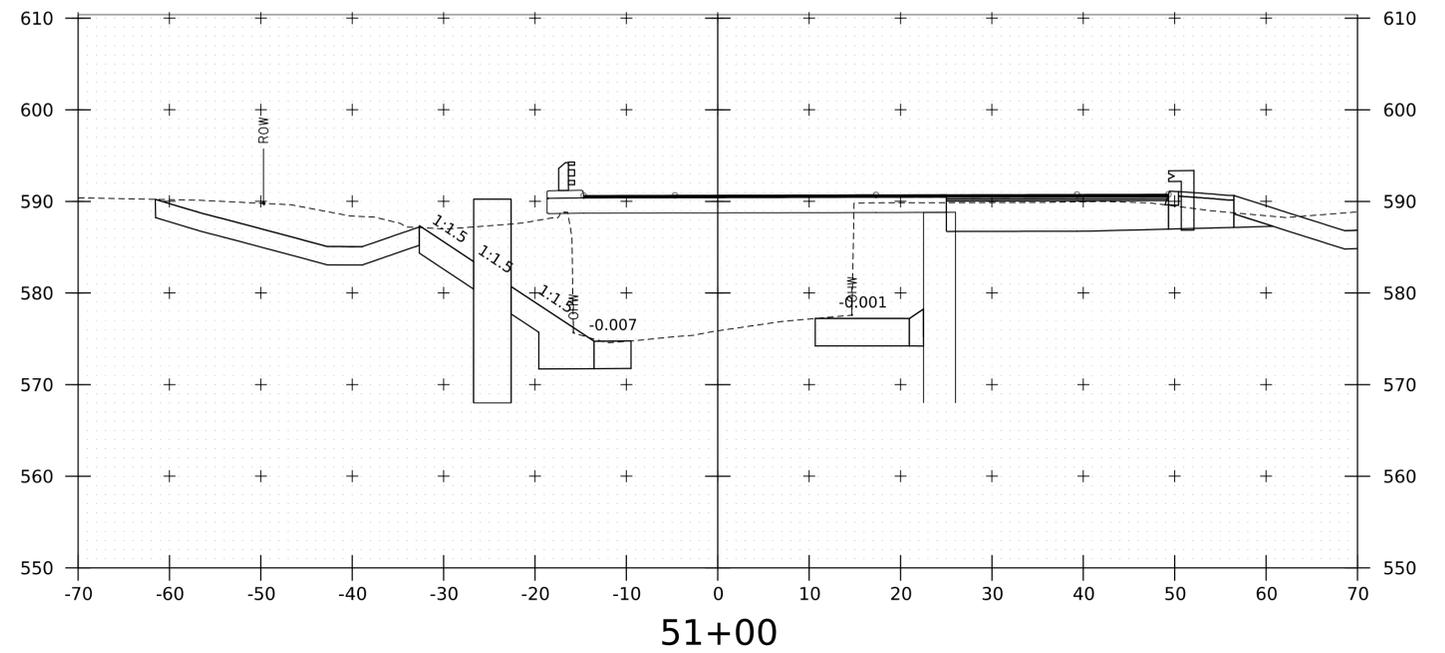
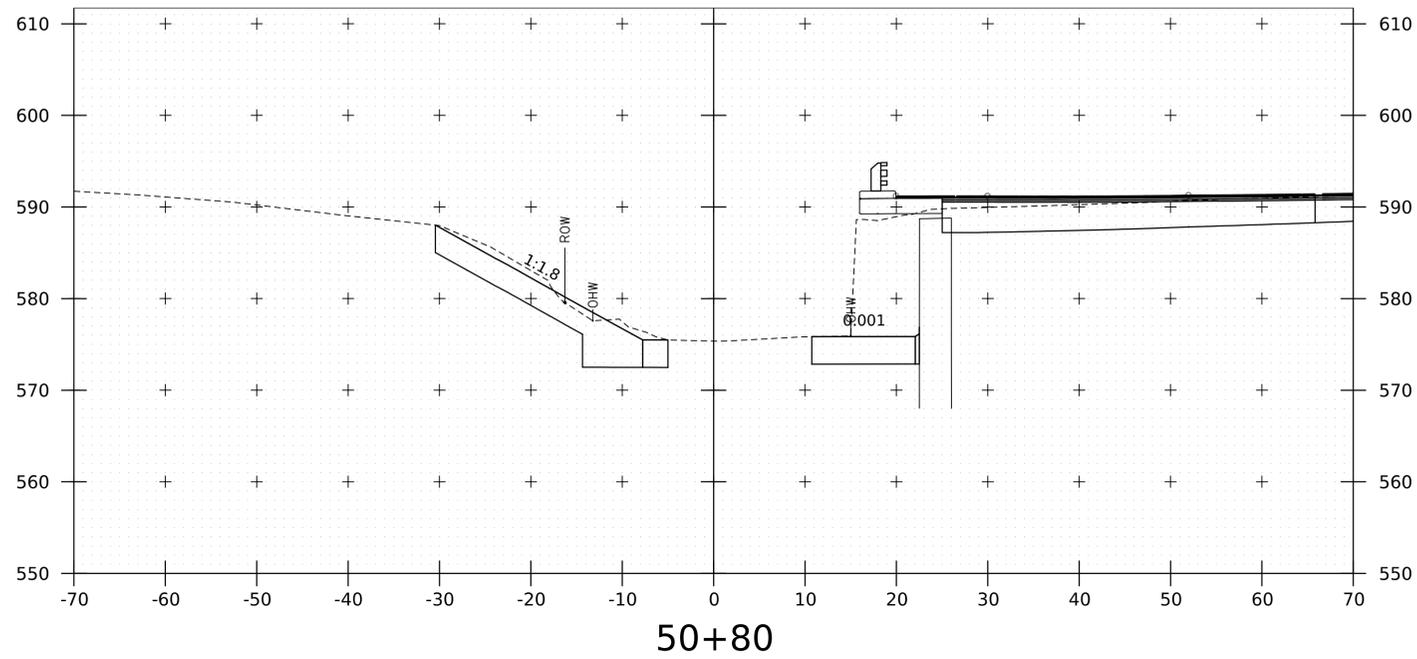
### BANKING DIAGRAM

SCALE : HORIZONTAL 1" = 20' - 0"  
VERTICAL NTS

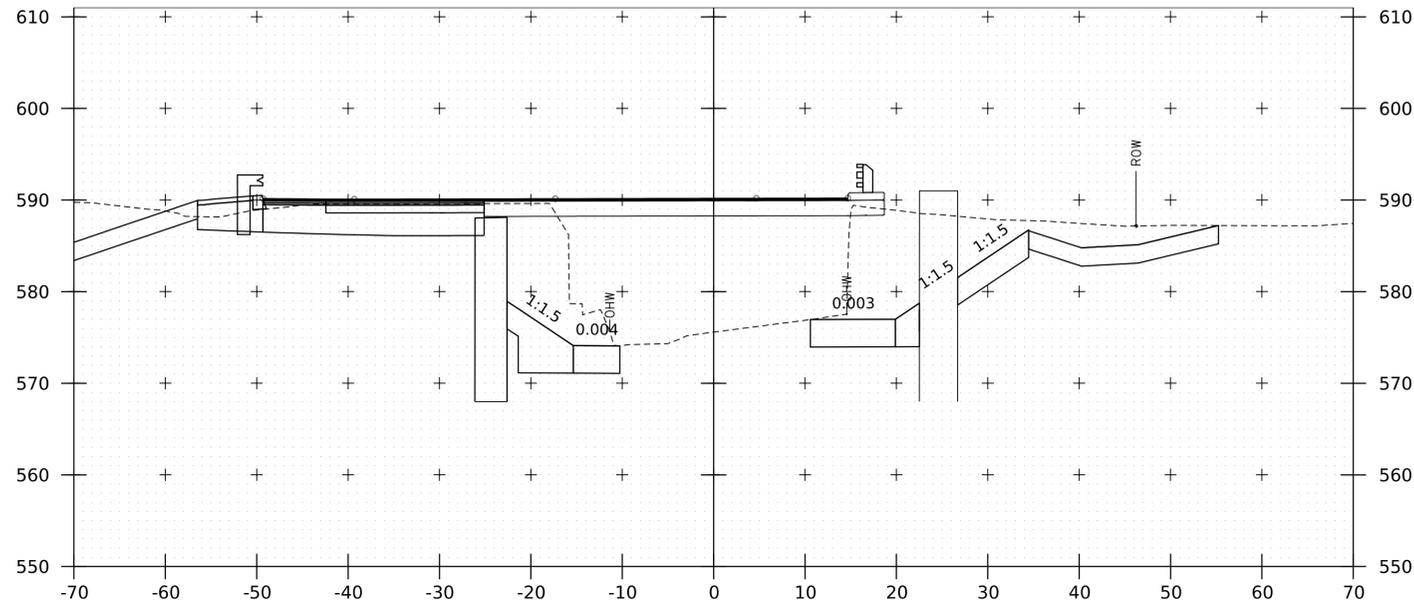
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PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	G. ROKES
FILE NAME:	sl2j634\STR\2j634pro.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	MATERIAL TRANSITION AND SUPER ELEVATION SHEET	19 OF 23



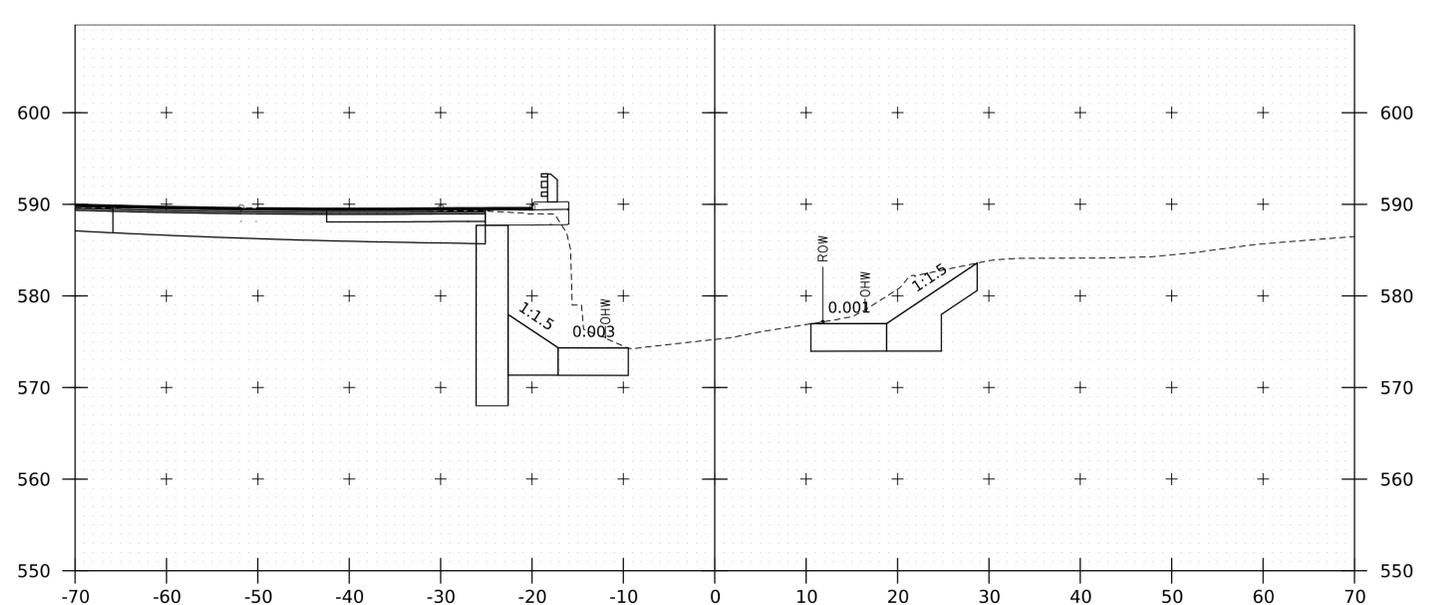
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PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SHEET 1	SHEET 20 OF 23



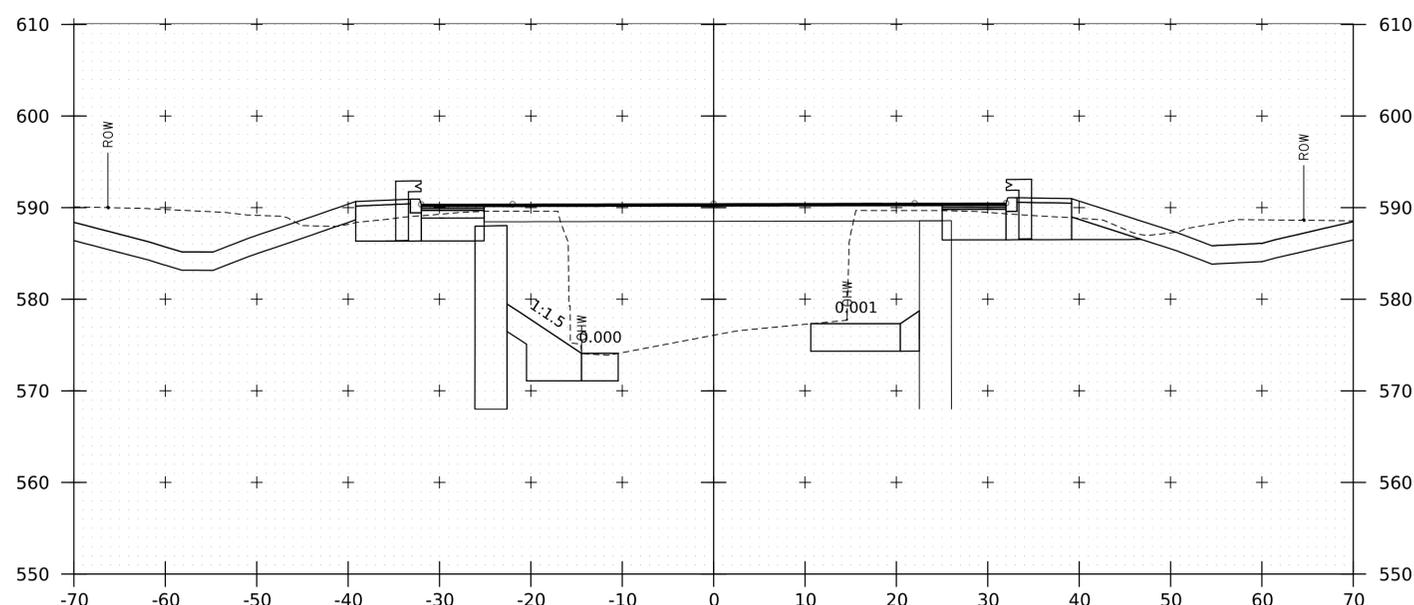
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PROJECT NUMBER: BF 0209(10)	
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PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SHEET 2	SHEET 21 OF 23



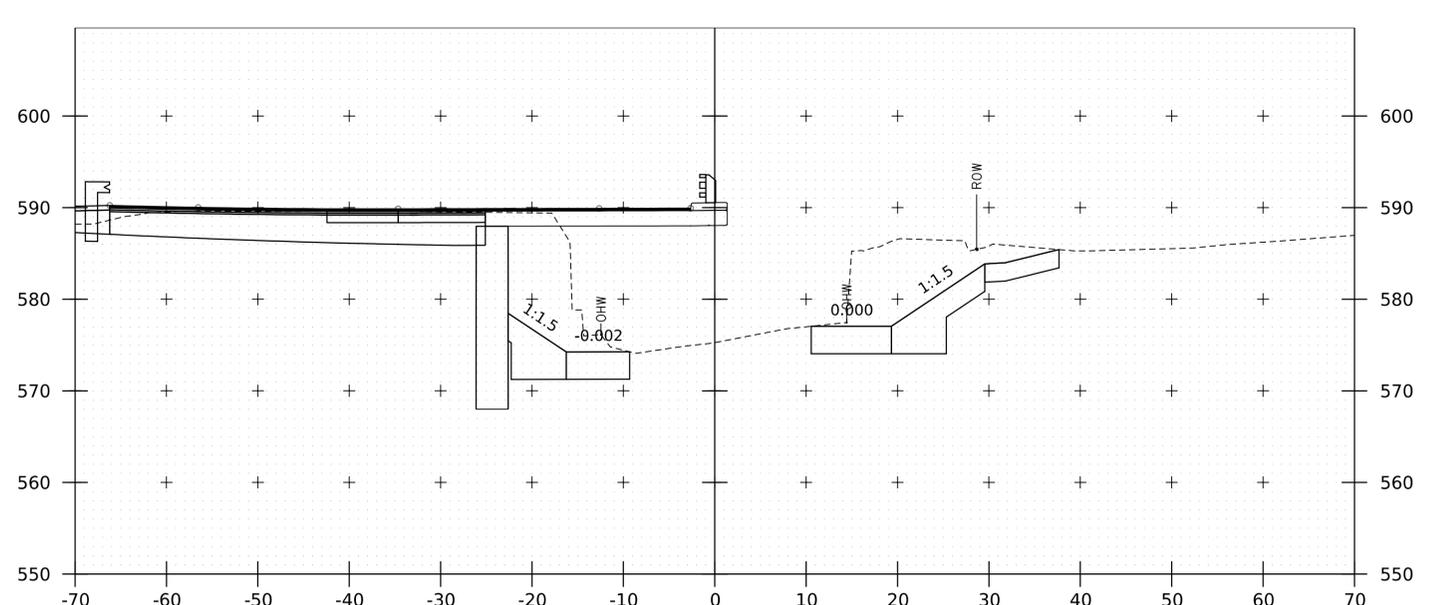
51+20



51+40

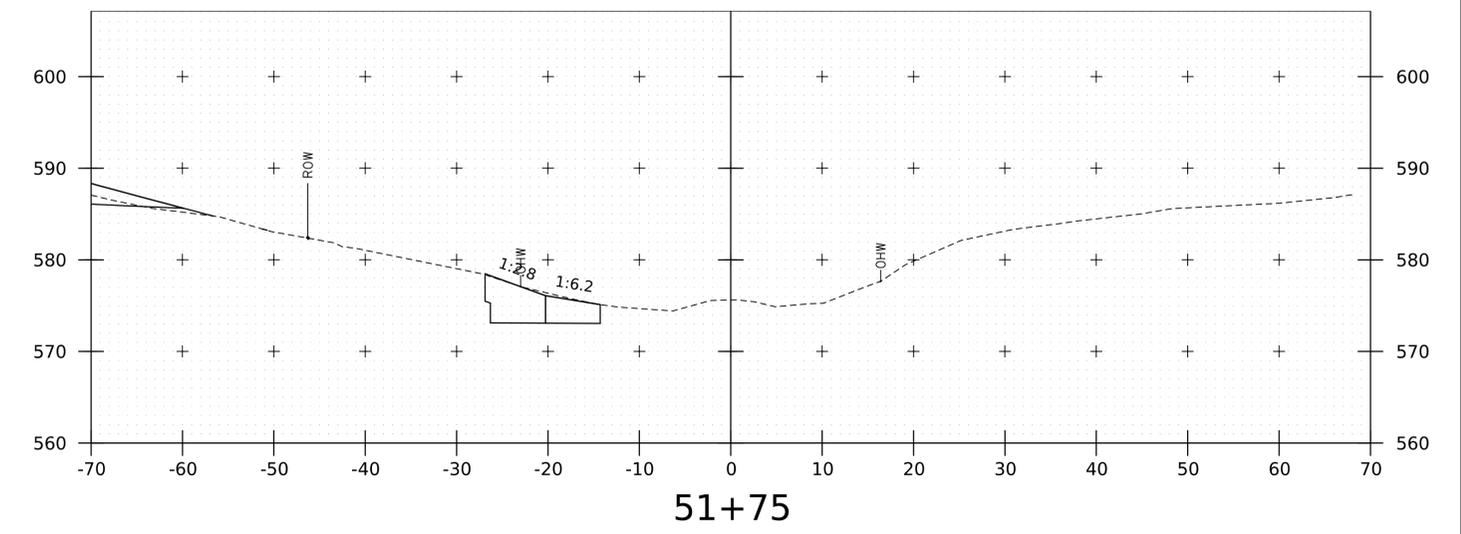
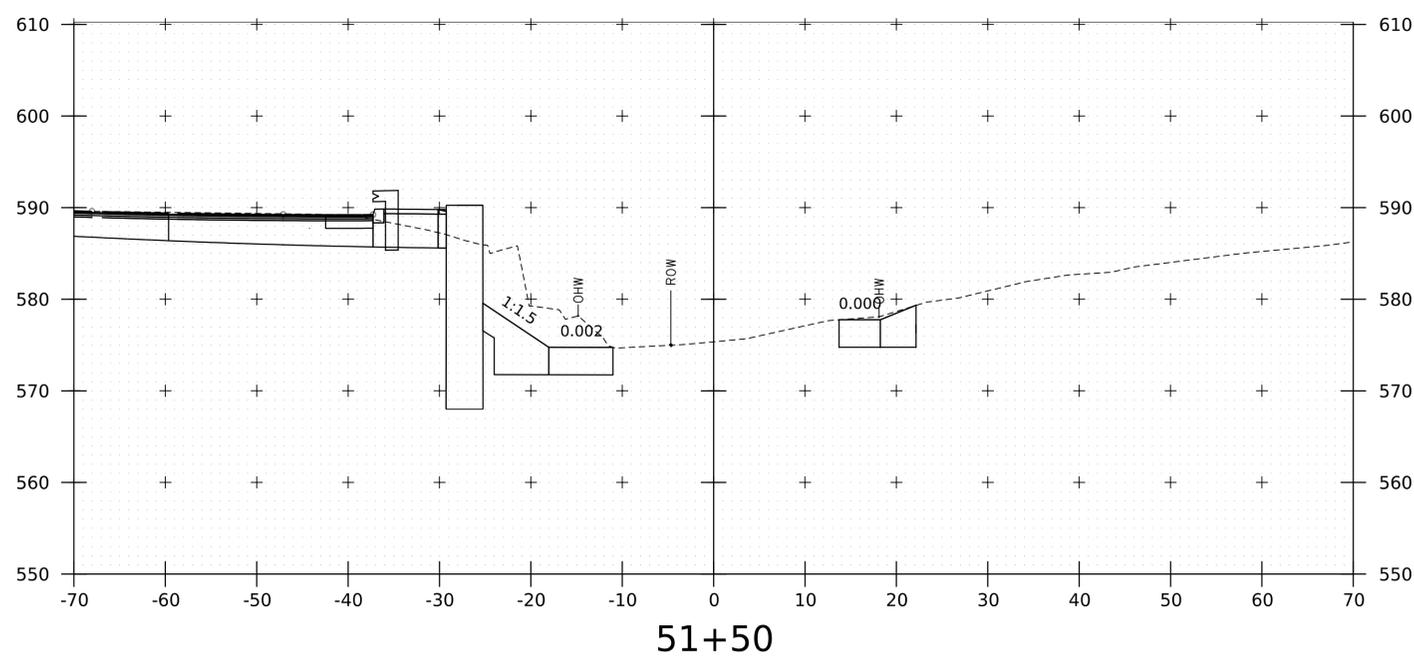
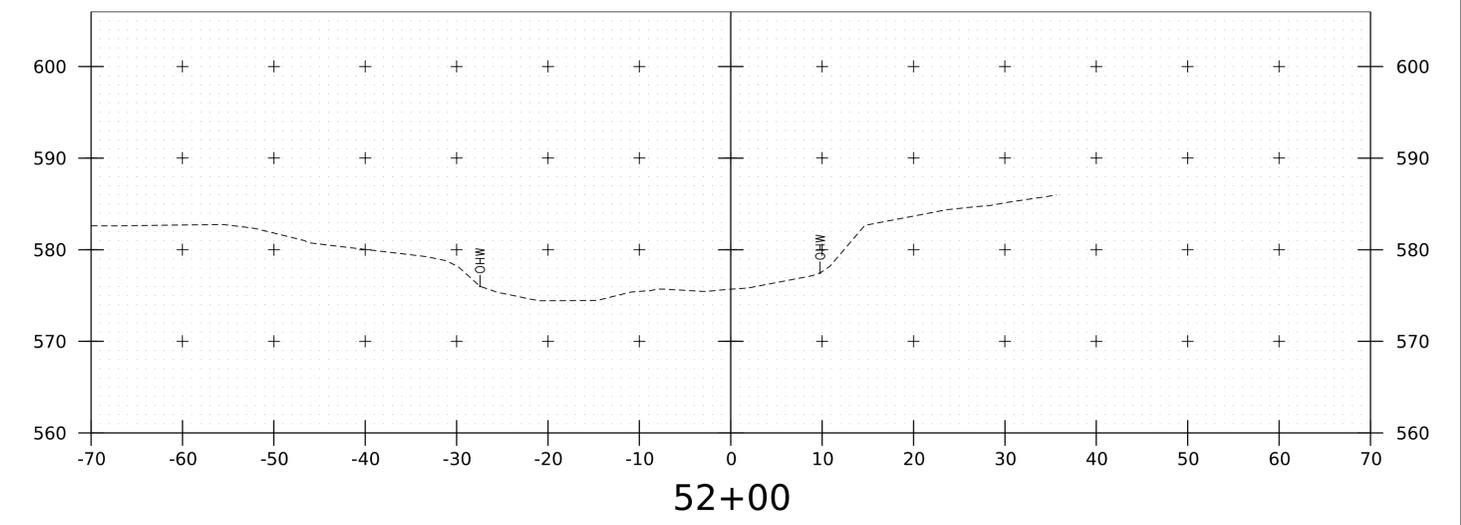
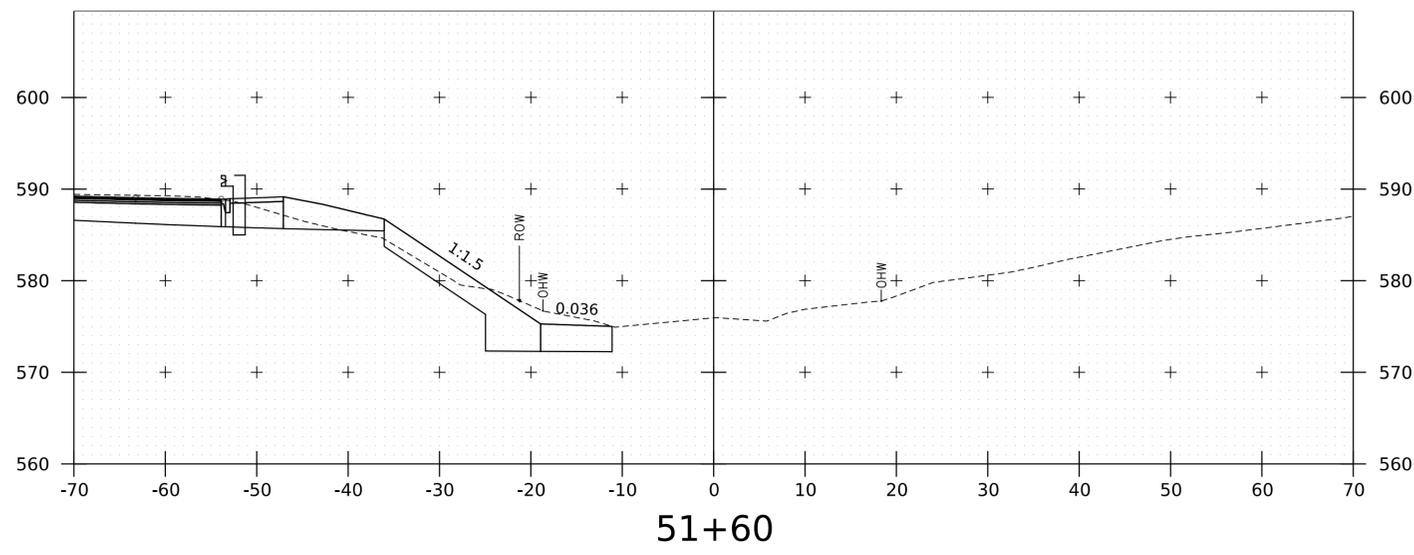


51+10



51+30

PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/I2J634chxs.dgn	PLOT DATE: 17-JUL-2023
PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SHEET 3	SHEET 22 OF 23



PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/I2J634chxs.dgn	PLOT DATE: 17-JUL-2023
PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SEET 4	SHEET 23 OF 23