

REVIEWER NOTES:

1. THE REPLACEMENT BRIDGE WILL HAVE A SPRINKLER SYSTEM TO BE DESIGNED BY CONSULTANT IN FINAL PLANS, AND A DRY HYDRANT AT THE EAST SIDE OF THE BRIDGE. ROW ACQUISITION WILL BE NECESSARY.
2. ELECTRICAL UTILITY EXTENSIONS WILL BE NEEDED FOR THE PROJECT TO ACCOMODATE A FIRE DETECTION AND ALERT SYSTEM.
3. THE BRIDGE WILL BE CLOSED TO TRAFFIC DURING CONSTRUCTION AND MAINTAINED ON AN OFF-SITE DETOUR. THE DETOUR AND SIGNAGE WILL BE THE RESPONSIBILITY OF THE TOWN. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION, AND SUBMITTAL OF A SITE-SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION CLEARLY DETAILING HOW TRAFFIC WILL BE MAINTAINED.
4. THE DESIGN TEAM ANTICIPATES THAT THIS PROJECT WILL QUALIFY FOR NON-JURISDICTIONAL PERMITTING AS A TYPE II PROJECT. THE CONTRACTOR SHALL PROVIDE A SITE SPECIFIC EPSC PLAN. ANTICIPATE AREA OF EARTH DISTURBANCE IS APPROXIMATELY 0.6 ACRES. THE CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC EROSION PREVENTION CONTROL PLAN IN ACCORDANCE WITH SECTION 653 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS IT SHALL BE PAID FOR AS PART OF ITEM# 653.05 MAINTENANCE OF EPSC PLAN.
5. THE DESIGN TEAM IS WORKING WITH THE GEOTECHNICAL SECTION TO DECIDE BETWEEN PIER REMOVAL AND REHABILITATION.

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF CORNWALL AND SALISBURY

COUNTY OF ADDISON

ROUTE NO: TH1 (SWAMP ROAD), CLASS 2 AND TH3 (CREEK ROAD), CLASS 2 BRIDGE NO: 8

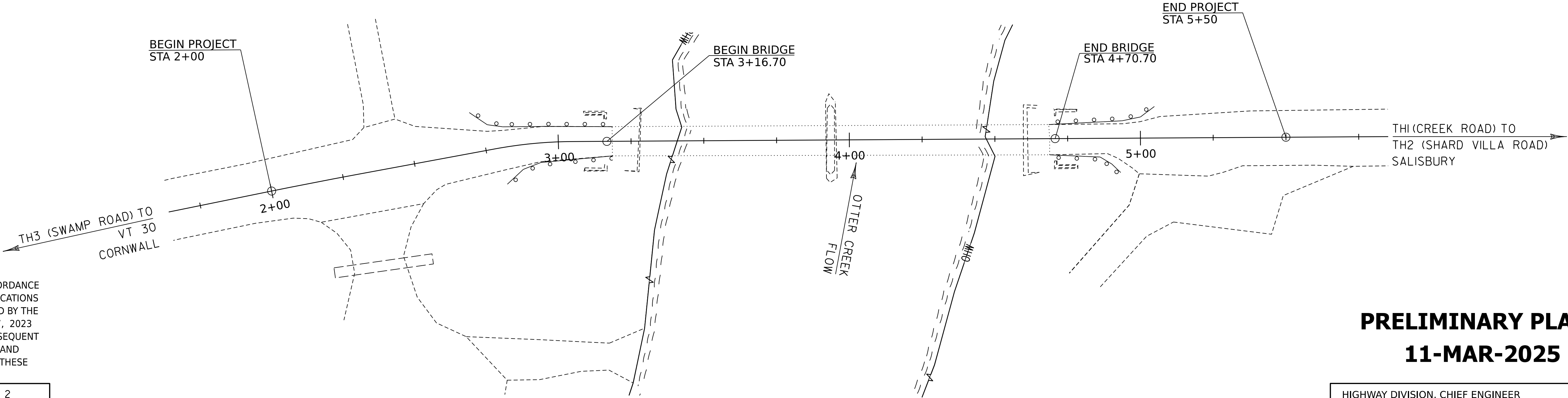
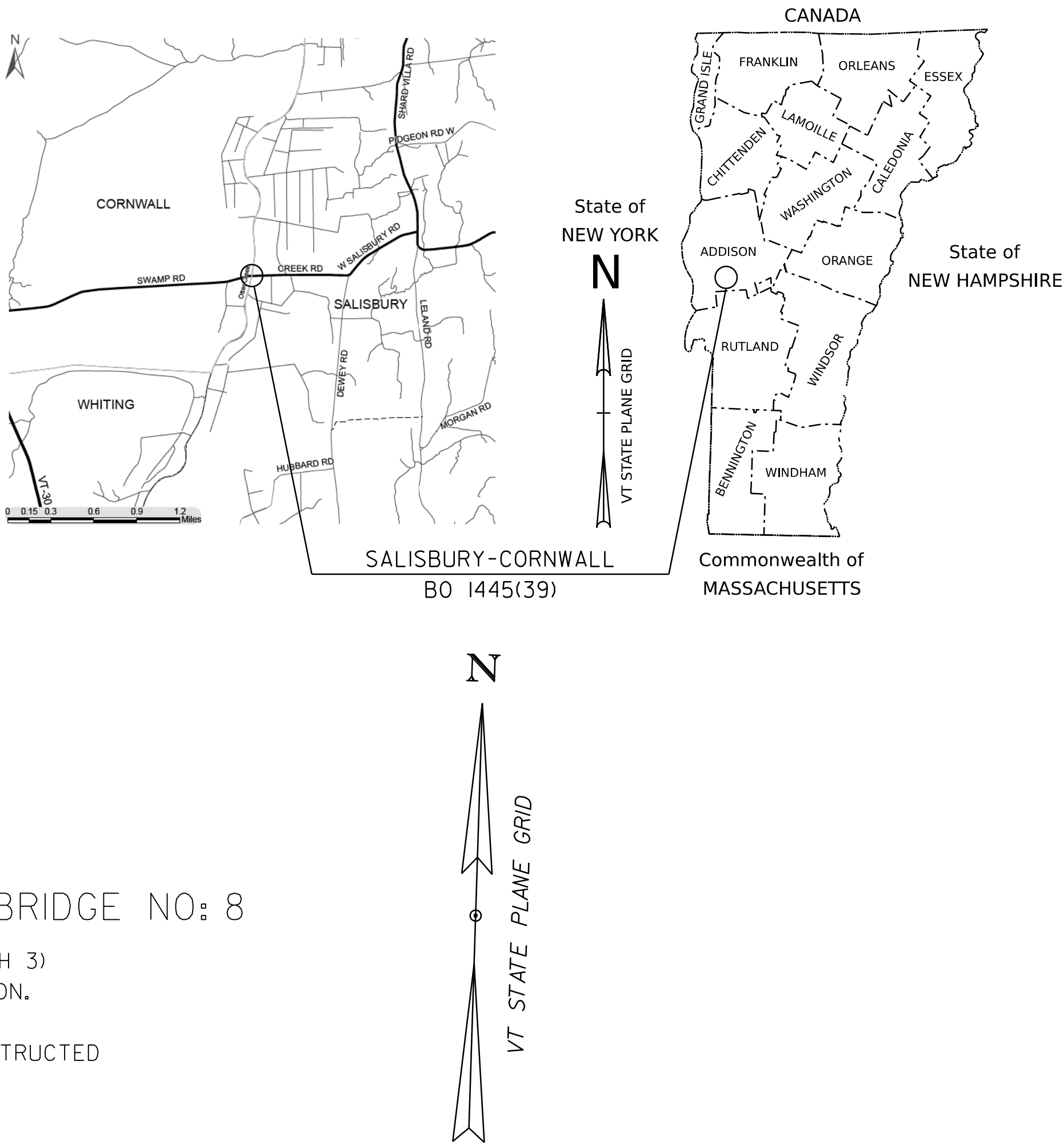
PROJECT LOCATION: LOCATED ON THE BORDER BETWEEN THE TOWNS OF SALISBURY (TH 1) AND CORNWALL (TH 3) OVER THE OTTER CREEK APPROXIMATELY- 1.8 MILES EAST OF THE CORNWALL (TH 3)/VT RT. 30 INTERSECTION.

DESCRIPTION OF WORK: REHABILITATION OF THE EXISTING BRIDGE TO INCLUDE A NEW SUPERSTRUCTURE CONSTRUCTED ON THE EXISTING SUBSTRUCTURE ALONG WITH RELATED ROADWAY AND CHANNEL WORK.

LENGTH OF BRIDGE: 154.00 FT

LENGTH OF ROADWAY: 221.00 FT

LENGTH OF PROJECT: 375.00 FT



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 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 :	DUBOIS & KING SURVEY
SURVEYED DATE :	
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (2011)

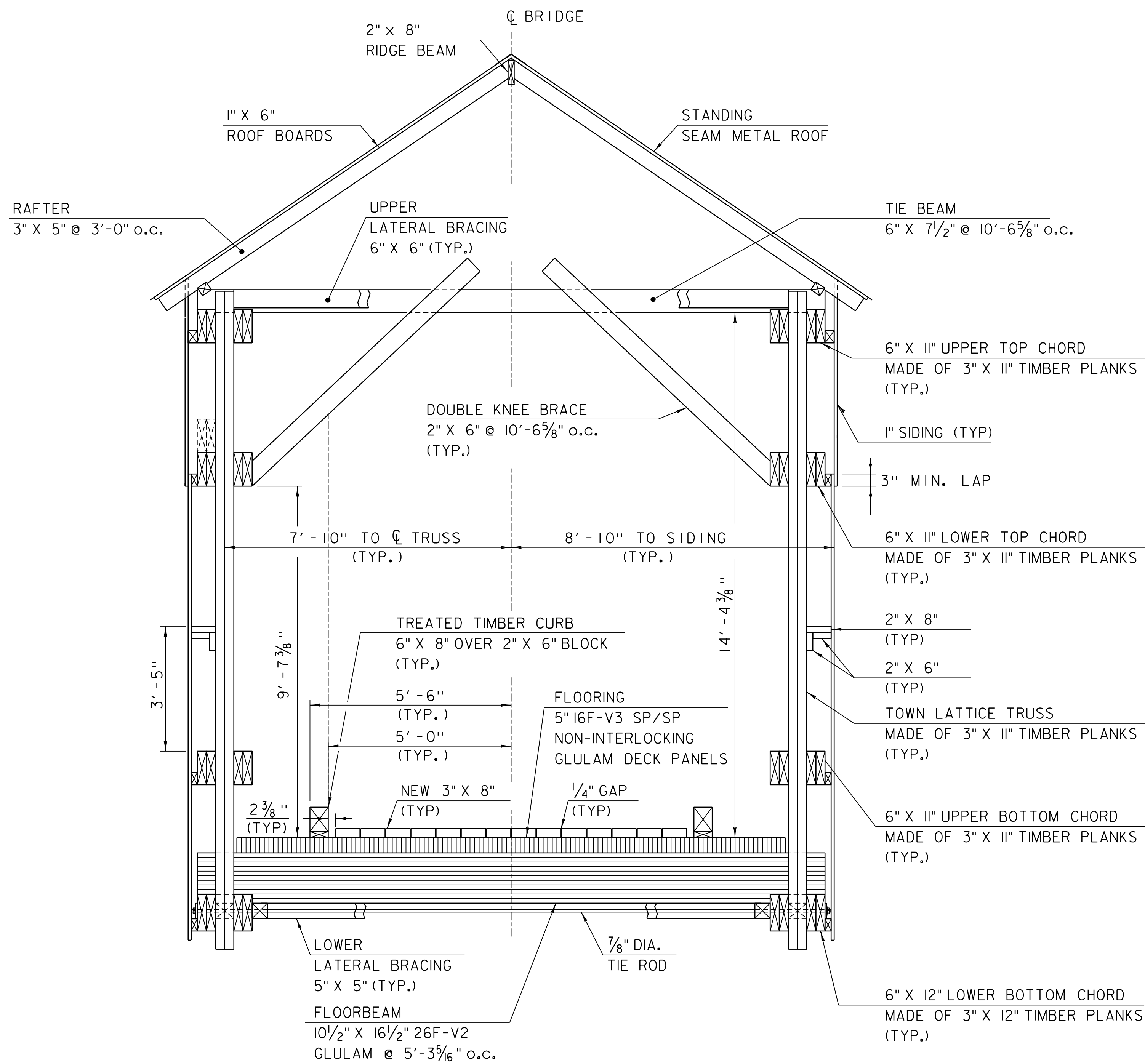
SCALE 1" = 20' - 0"

20 0 20

PRELIMINARY PLANS

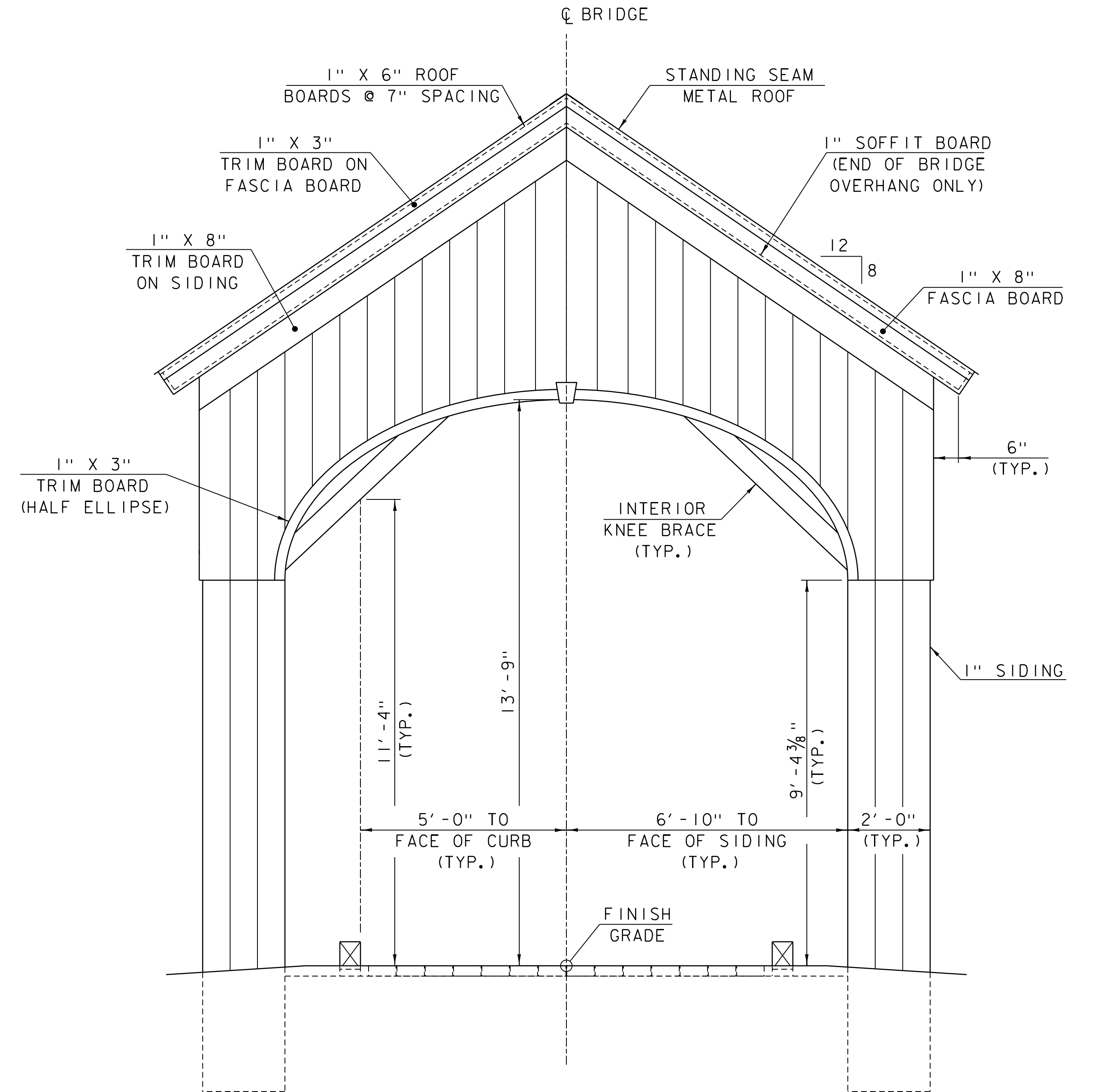
11-MAR-2025

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER :	J.B. MCCARTHY
PROJECT NAME :	SALISBURY-CORNWALL
PROJECT NUMBER :	BO 1445(39)
SHEET 1 OF 20 SHEETS	



BRIDGE TYPICAL SECTION

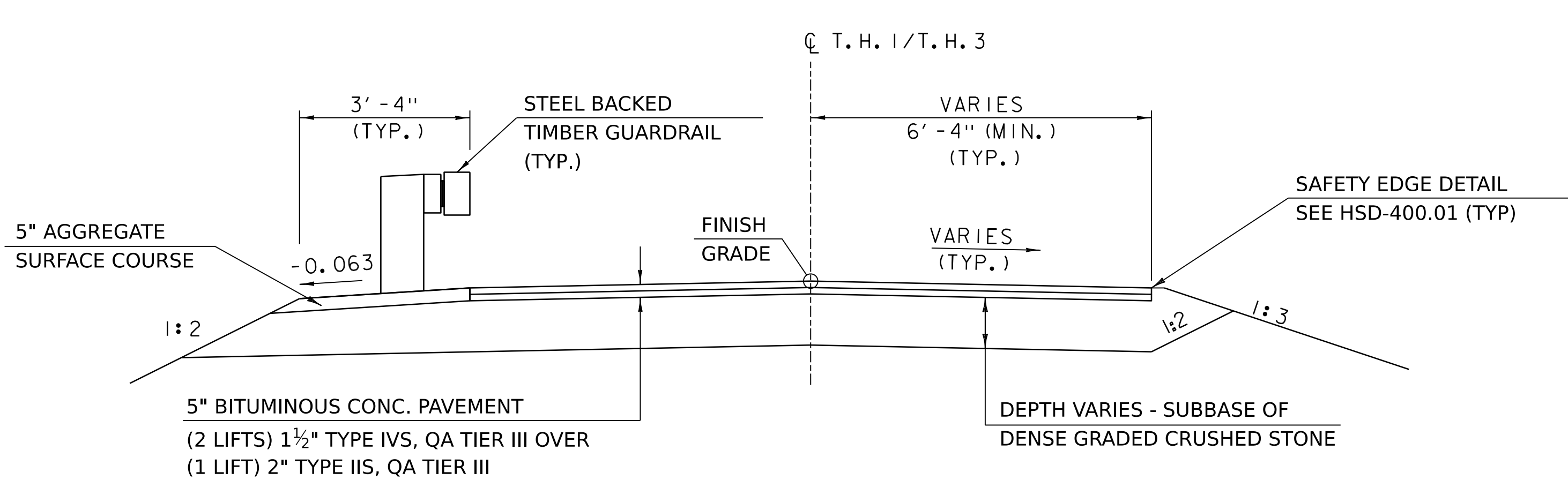
1 0 1 2 3 4
SCALE: 1/2" = 1'-0"



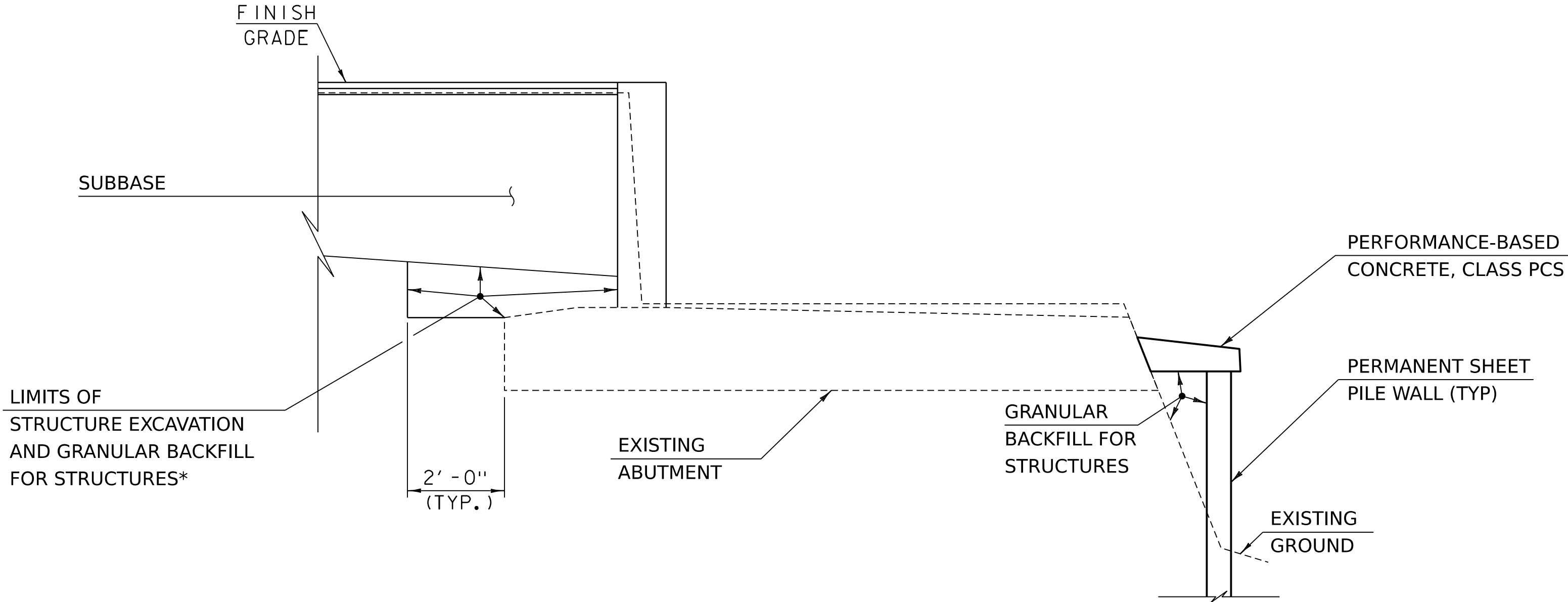
EXTERIOR END ELEVATION

1 0 1 2 3 4
SCALE: 1/2" = 1'-0"

PROJECT NAME: SALISBURY-CORNWALL	
PROJECT NUMBER: BO 1445 (39)	
FILE NAME: I8J164/Structures/sI8J164typ.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: JB MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: F. BARROWS	CHECKED BY: -----
BRIDGE TYPICAL SECTIONS	SHEET 3 OF 20



ROADWAY TYPICAL SECTION
1/2" = 1'-0"



ABUTMENT TYPICAL SECTION
1/2" = 1'-0"

* SEE SHEET XX FOR LIMITS OF "PARTIAL REMOVAL OF STRUCTURE" AT THE ABUTMENTS.

BASED ON RECORD PLANS ABUTMENT ARE ASSUMED TO CONSIST OF LAID UP STONE ABUTMENTS WITH CONCRETE ON FRONT AND TOP.

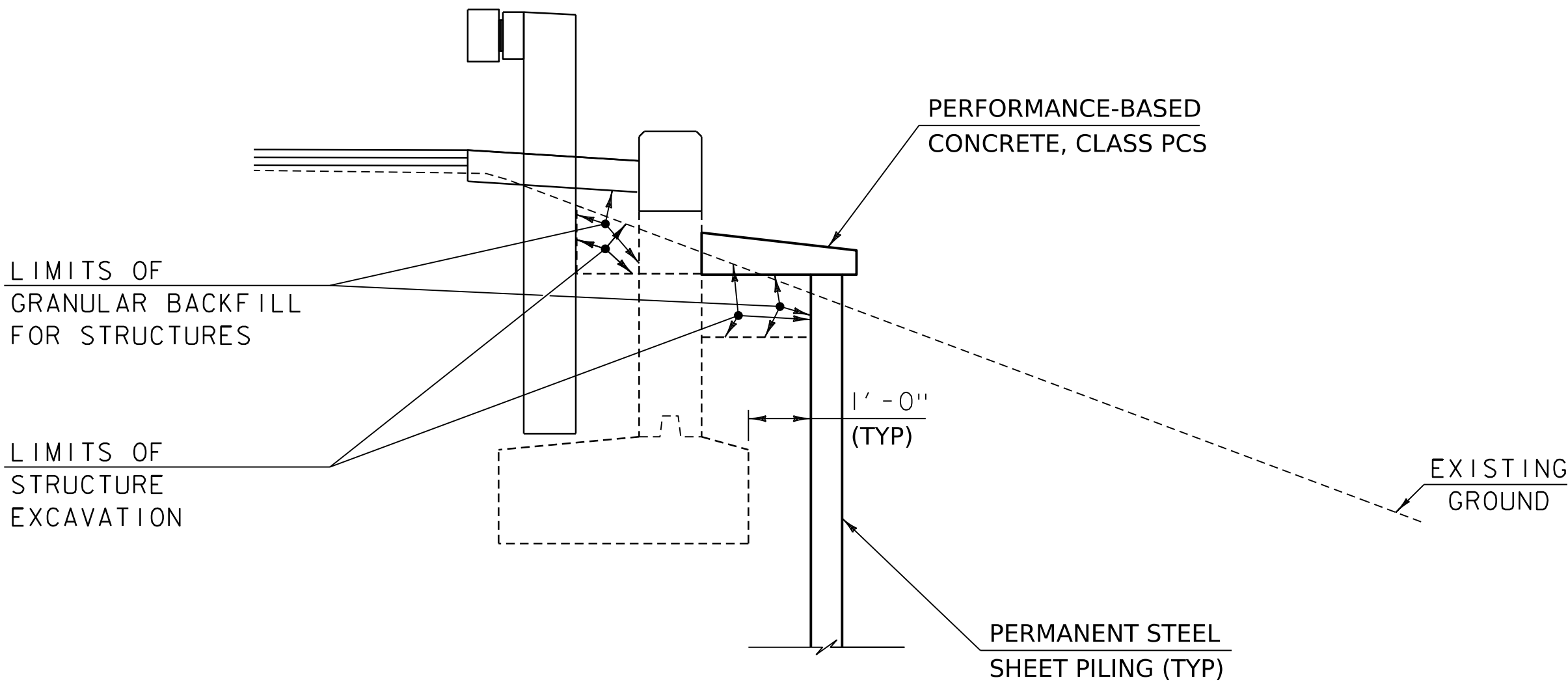
PAVEMENT SPECIFICATIONS

DESIGN LANE/DESIGN LIFE ESALS	34,800
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADED ASPHALT BINDER - PAVER PLACED	58E-28
PERFORMANCE GRADE ASPHALT BINDER - NON-PAVER PLACED	58S-28

EMULSION SHALL BE APPLIED PER THE APPLICATION RATES IN TABLE 404.06A OF THE STARDARD SPECIFICATIONS.

MATERIAL TOLERANCES

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	± ¼"
- AGGREGATE SURFACE COURSE	± ½"
SUBBASE	± 1"
SAND BORROWS	± 1"



WINGWALL TYPICAL SECTION
1/2" = 1'-0"

SEE SHEET XX FOR LIMITS OF "PARTIAL REMOVAL OF STRUCTURE" AT THE ABUTMENTS.

- WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
- 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 MATERIALS 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.

PROJECT NAME: SALISBURY-CORNWALL
PROJECT NUMBER: BO 1445 (39)

FILE NAME: sl8jl64typ.dgn
PROJECT LEADER: JB MCCARTHY
DESIGNED BY: F. BARROWS
EARTHWORK TYPICAL SECTIONS
PLOT DATE: 11-MAR-2025
DRAWN BY: A. VAN BUSKIRK
CHECKED BY: F. BARROWS
SHEET 4 OF 20

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 — x — x — x — BF — x — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//////////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

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

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

ONNOONNOONNO	FILTER CURTAIN
▣	SILT FENCE
▣ x ▣ x ▣ x ▣ x	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:	SALISBURY-CORNWALL
PROJECT NUMBER:	B0 1445(39)
FILE NAME: sl8Jl64legend.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: JB MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: F. BARROWS
SYMBOLGY LEGEND	SHEET 5 OF 20

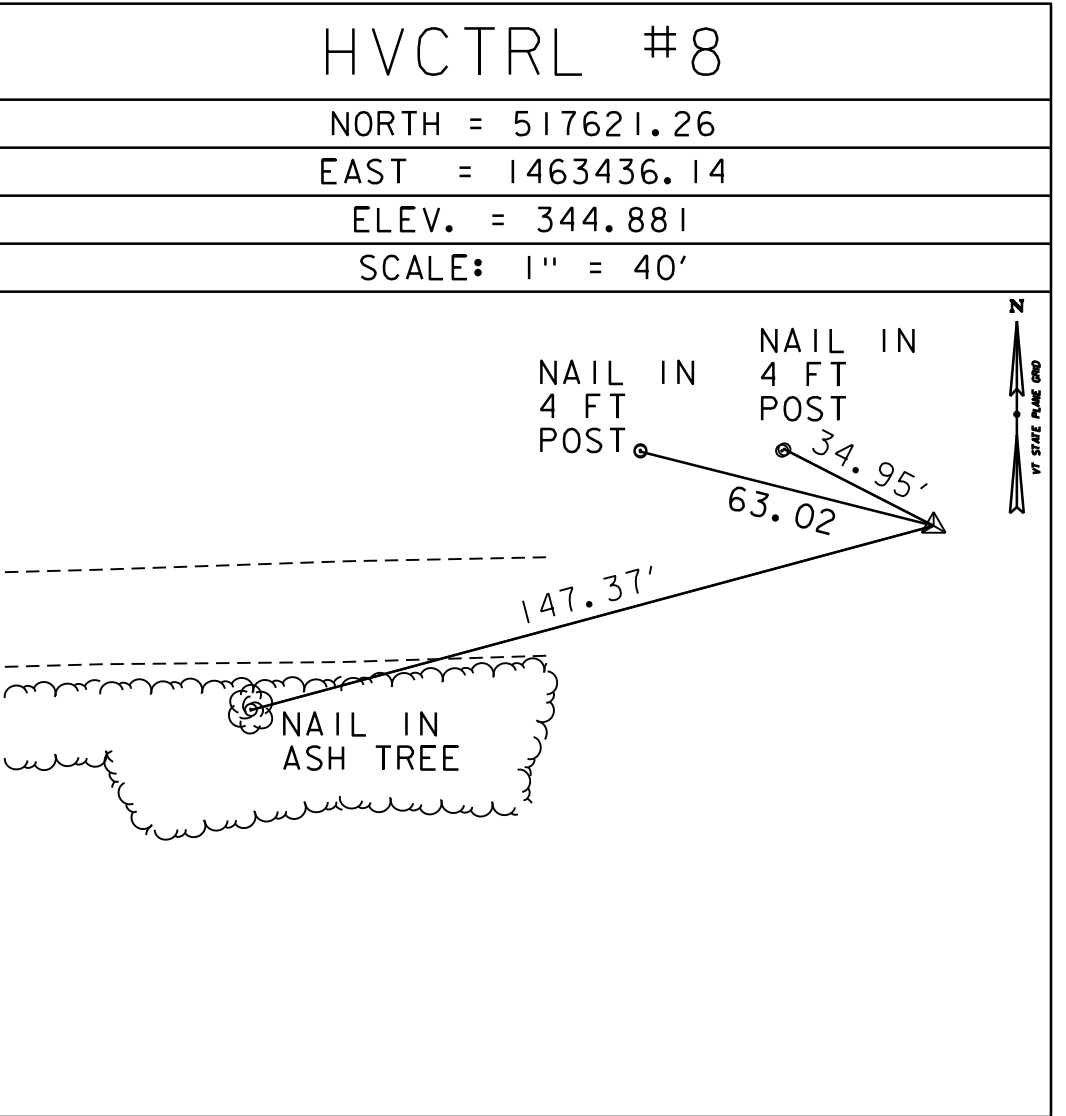
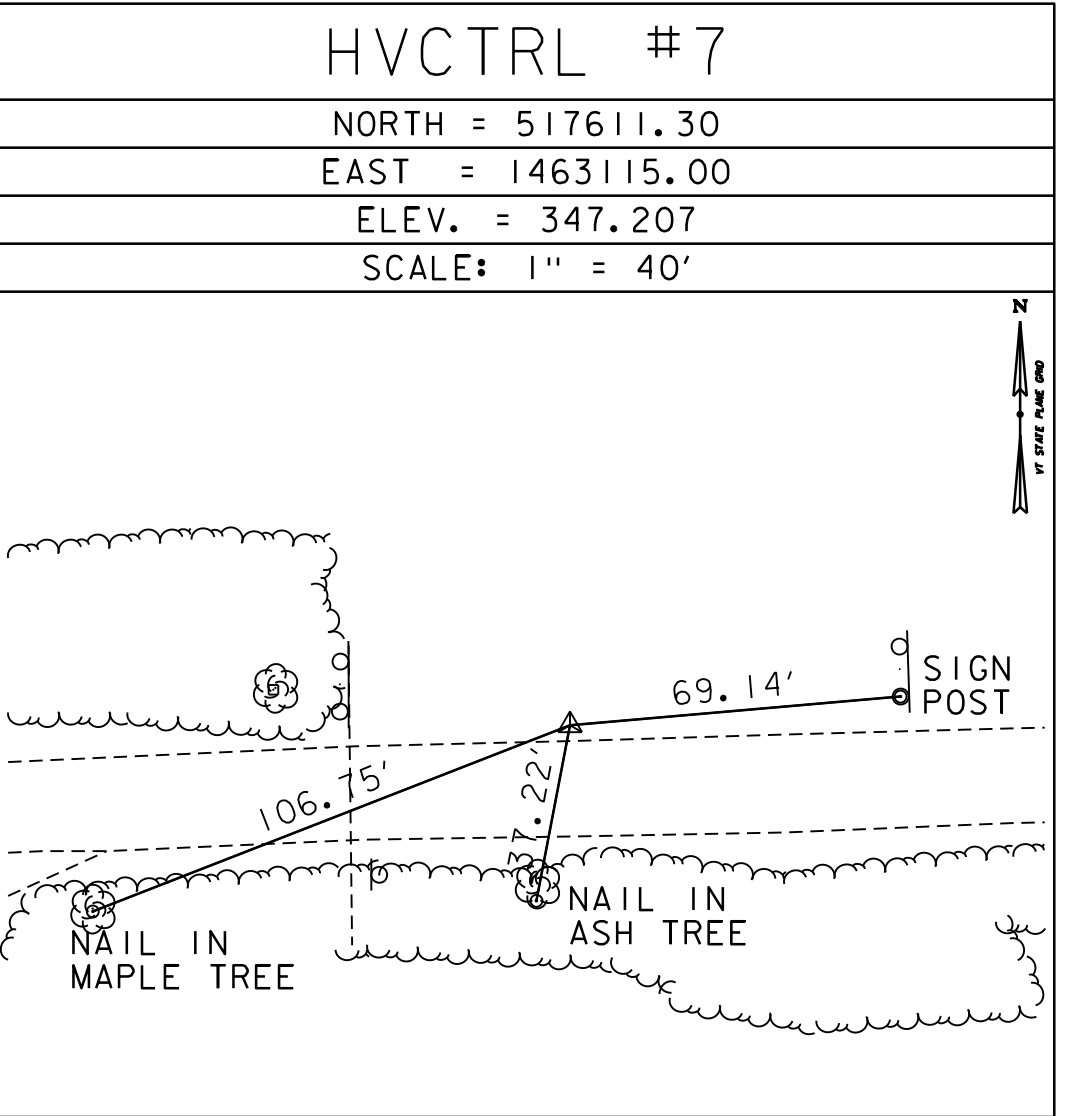
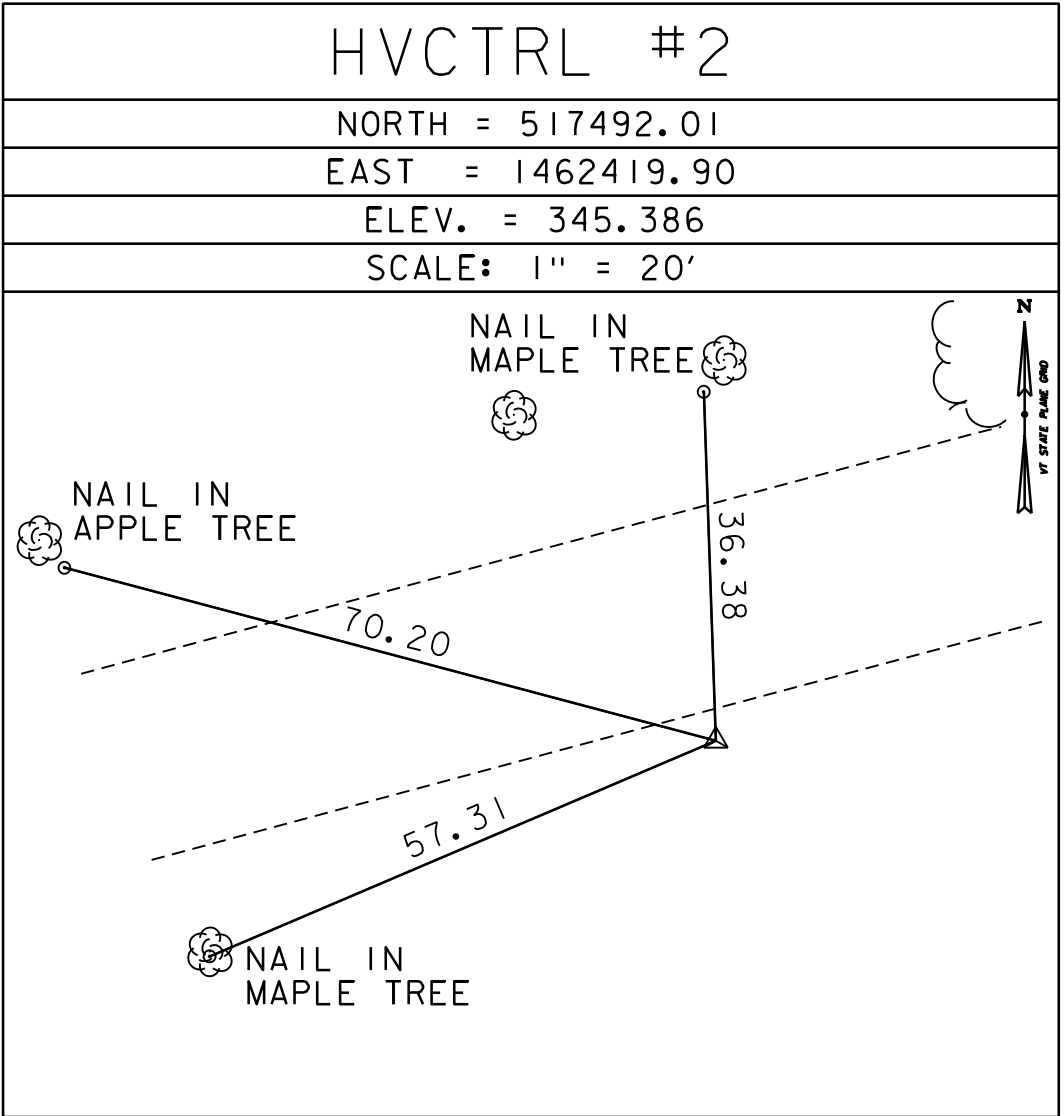
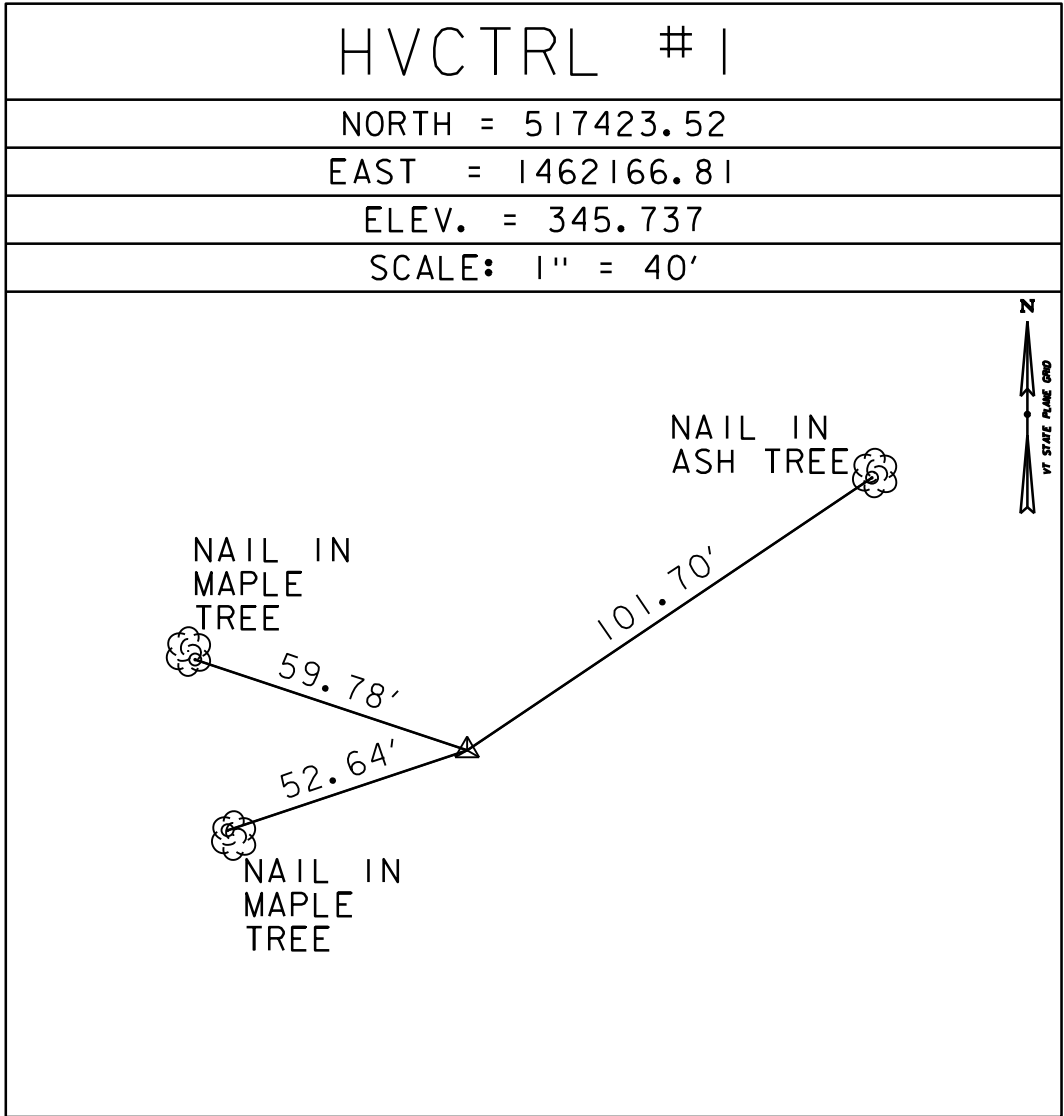


GPS CONTROL POINTS

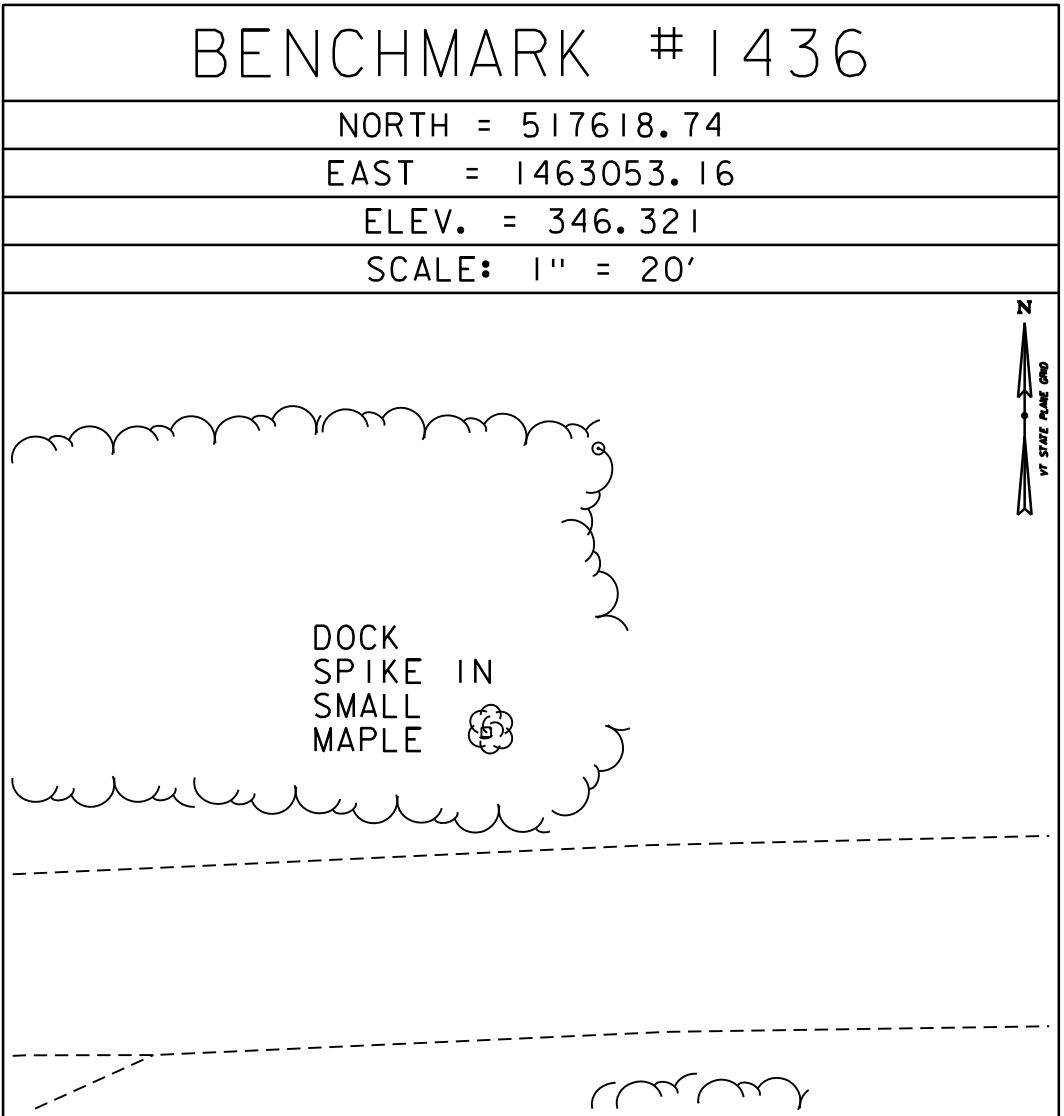
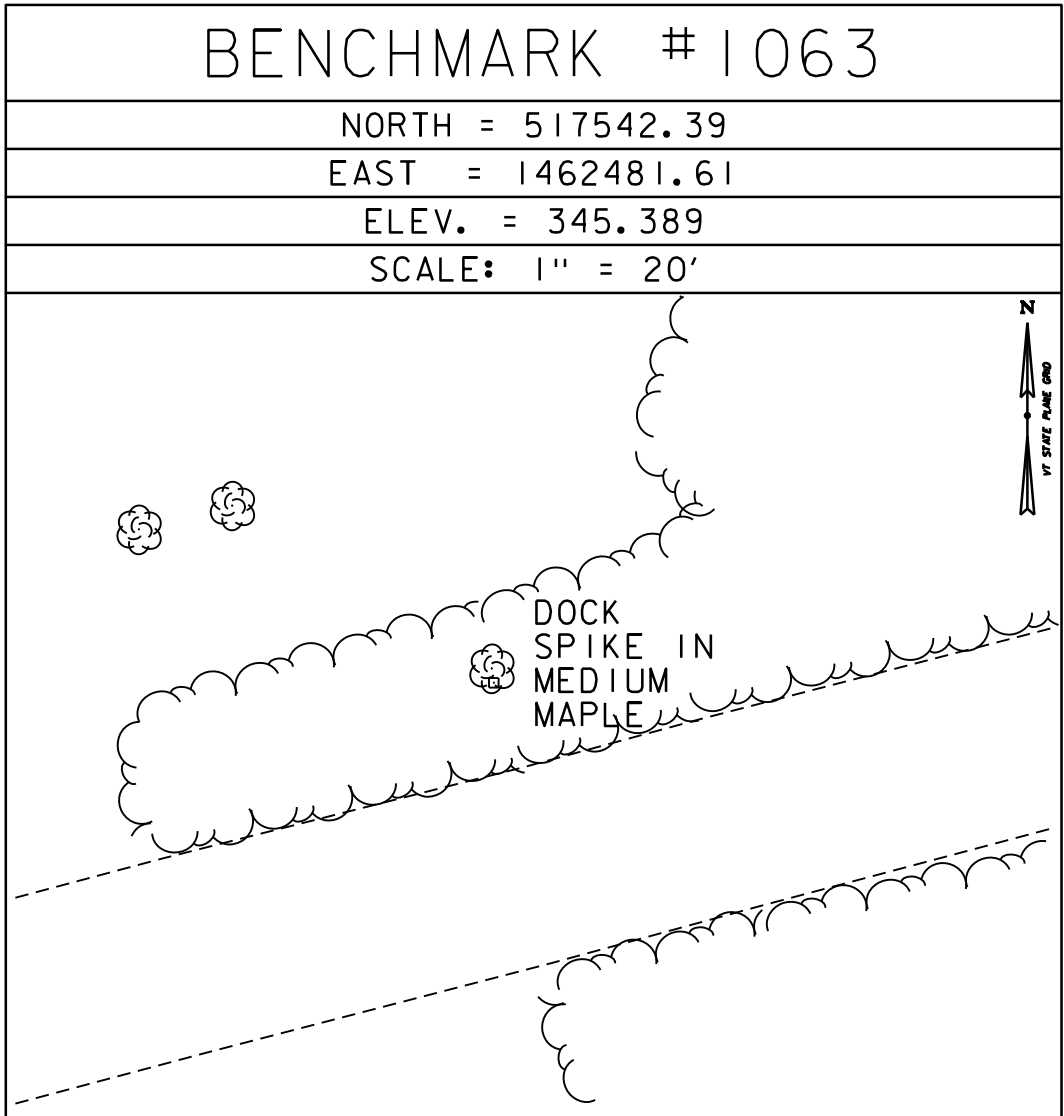
STATE PLANE COORDINATES WERE DERIVED THROUGH THE USE OF RTK GPS UTILIZING THE VERMONT CORS SYSTEM  
POINTS ONE AND TWO WERE OCCUPIED WITH LEICA GS15 GNSS UNITS, POINTS SEVEN AND EIGHT WERE CREATED WITH A LEICA TS16  
ROBOTIC TOTAL STATION

VTUV  
NORTH = 403,876.08  
EAST = 1,513,436.16  
ELLIPSOID HEIGHT = 529.68  
This is a GPS Continuously Operating Reference Station.  
RUTLAND CORS ARP  
CORS_ID - VTRU  
PID - DK4109  
STATE/COUNTY- VT/CHITTENDEN  
COUNTRY - US  
USGS QUAD - RUTLAND (1988)  
U.S. NATIONAL GRID SPATIAL ADDRESS: 18TXP6306530221 (NAD83)  
MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

PRIMARY CONTROL



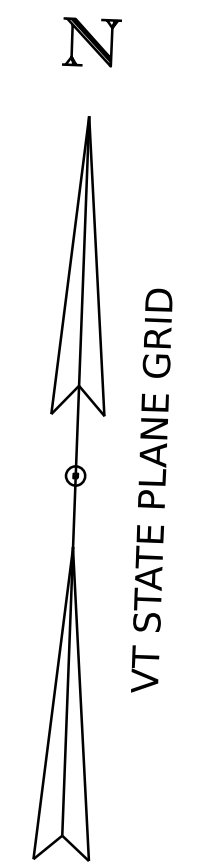
BENCHMARKS



DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83 (2011)  
ADJUSTMENT LEAST SQUARE

PROJECT NAME: SALISBURY-CORNWALL  
PROJECT NUMBER: BO 1445(39)

FILE NAME: z18j164t1.dgn  
PROJECT LEADER: J. B. MCCARTHY  
DESIGNED BY: A. VAN BUSKIRK  
TIE SHEET 1  
PLOT DATE: 11-MAR-2025  
DRAWN BY: T. COMSTOCK  
CHECKED BY: G. STOCKMAN  
SHEET 6 OF 20



SOIL INFORMATION:  
WINOOSKI VERY FINE SANDY LOAM  
Kfact+WS = 0.49, 0% to 3% SLOPES  
HYDROLOGICAL SOIL GROUP: C

SOIL INFORMATION:  
HADLEY VERY FINE SANDY LOAM  
Kfact+WS = 0.49, 0% to 3% SLOPES  
HYDROLOGICAL SOIL GROUP: B

SOIL INFORMATION:  
LIMERICK SILT LOAM:  
Kfact+WS = 0.49, 0% to 3% SLOPES  
HYDROLOGICAL SOIL GROUP: B/D

STATE OF VERMONT  
BY AND THROUGH ITS  
AGENCY OF NATURAL RESOURCES

L & R FARMS, LLC  
joined by  
VERMONT LAND TRUST, INC.;  
VERMONT AGENCY OF AGRICULTURE, FOOD AND MARKETS;  
VERMONT HOUSING & CONSERVATION BOARD

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VERMONT HOUSING & CONSERVATION BOARD

SOIL INFORMATION:  
LIMERICK SILT LOAM:  
Kfact+WS = 0.49, 0% to 3% SLOPES  
HYDROLOGICAL SOIL GROUP: B/D

EXISTING BRIDGE INFORMATION  
TOWN LATTICE COVERED BRIDGE  
BUILT 1865, RECONSTRUCTED 2008,  
BURNED DOWN 9/2016,  
TEMPORARY BRIDGE INSTALLED 12/2016,  
156' TWO SPAN, 71' MAX SPAN  
12.5' CURB TO CURB

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

PROJECT NAME: SALISBURY-CORNWALL

PROJECT NUMBER: BO 1445(39)

FILE NAME: s18j164bdr.dgn

PROJECT LEADER: J.B. MCCARTHY

DESIGNED BY: A. VAN BUSKIRK

EXISTING LAYOUT

PLOT DATE: 11-MAR-2025

DRAWN BY: A. VAN BUSKIRK

CHECKED BY: F. BARROWS

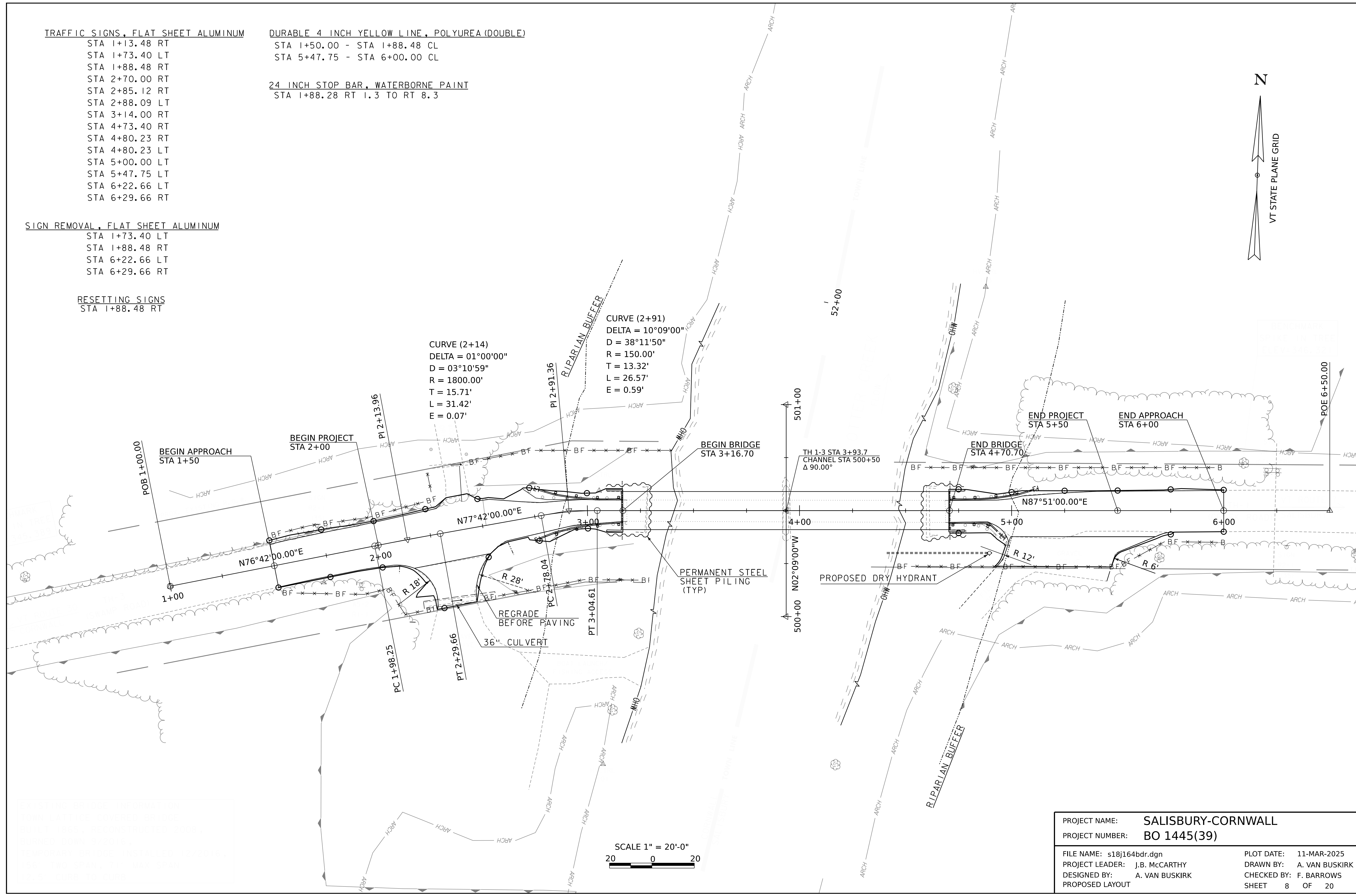
SHEET 7 OF 20

DURABLE 4 INCH YELLOW LINE, POLYUREA (DOUBLE


24 INCH STOP BAR, WATERBORNE PAINT

STA 1+88.28 RT 1.3 TO RT 8.3

RESETTING SIGNS  
STA 1+88.48 RT



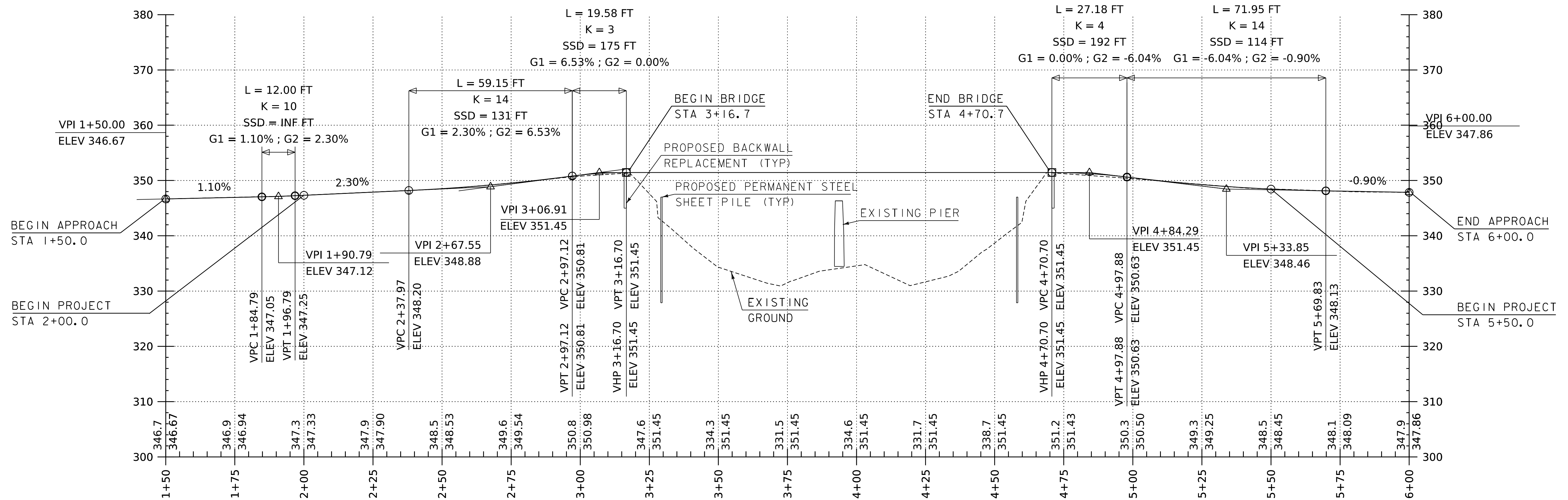
SCALE 1" = 20'-0"



A horizontal graphic scale bar with alternating black and white segments. It is marked with the numbers 20, 0, and 20 from left to right, indicating distances in feet.

PROJECT NAME: SALISBURY-CORNWALL	
PROJECT NUMBER: BO 1445(39)	
FILE NAME: s18j164bdr.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: F. BARROWS
PROPOSED LAYOUT	SHEET 8 OF 20





### SALISBURY TH1 AND CORNWALL TH3 PROFILE

HORIZONTAL 1"=20'  
VERTICAL 1"=10'

#### NOTE:

FINISHED GRADE SHOWN TO HUNDREDTH FT  
EXISTING GRADE SHOWN TO TENTH FT

PROJECT NAME: SALISBURY-CORNWALL

PROJECT NUMBER: BO 1445(39)

FILE NAME: s18j164pro.dgn

PROJECT LEADER: JB MCCARTHY

DESIGNED BY: A. VAN BUSKIRK

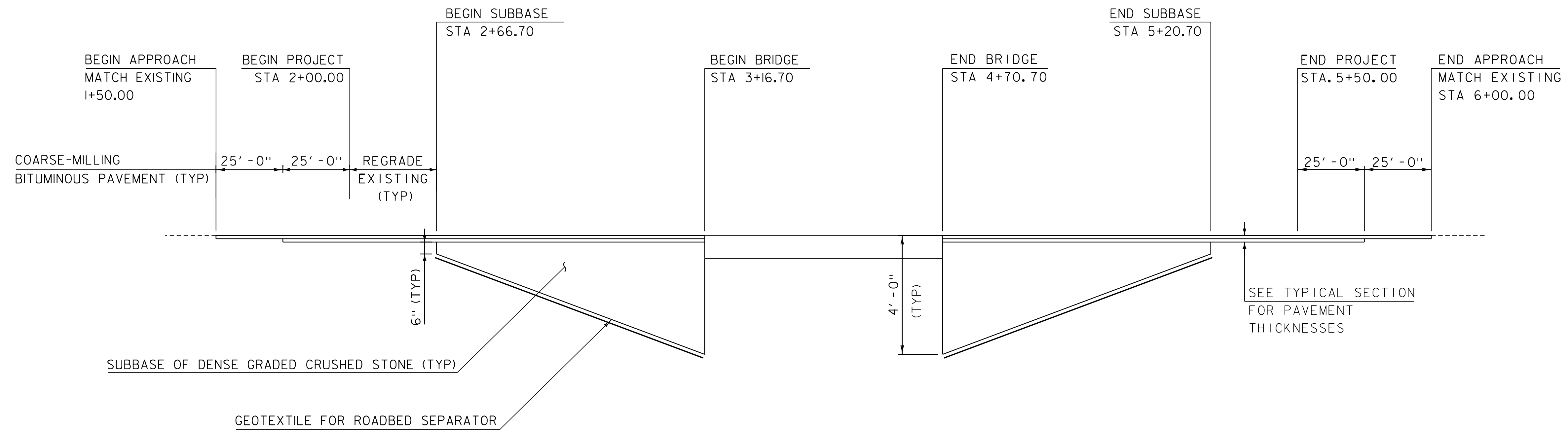
TH1-3 Profile

PLOT DATE: 11-MAR-2025

DRAWN BY: A. VAN BUSKIRK

CHECKED BY: F. BARROWS

SHEET 9 OF 20



**TH1-3 MATERIAL TRANSITION DIAGRAM**  
NOT TO SCALE

PROJECT NAME: SALISBURY-CORNWALL	
PROJECT NUMBER: BO 1445(39)	
FILE NAME: sl8jl64pro.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: F. BARROWS
MATERIAL TRANSITION	SHEET 10 OF 20

TRAFFIC SIGNS, FLAT SHEET ALUMINUM

STA 1+13.48 RT  
STA 1+73.40 LT  
STA 1+88.48 RT  
STA 2+70.00 RT  
STA 2+85.12 RT  
STA 2+88.09 LT  
STA 3+14.00 RT  
STA 4+73.40 RT  
STA 4+80.23 RT  
STA 4+80.23 LT  
STA 5+00.00 LT  
STA 5+47.75 LT  
STA 6+22.66 LT  
STA 6+29.66 RT

DURABLE 4 INCH YELLOW LINE, POLYUREA (DOUBLE)

STA 1+50.00 - STA 1+88.48 CL  
STA 5+47.75 - STA 6+00.00 CL

24 INCH STOP BAR, WATERBORNE PAINT

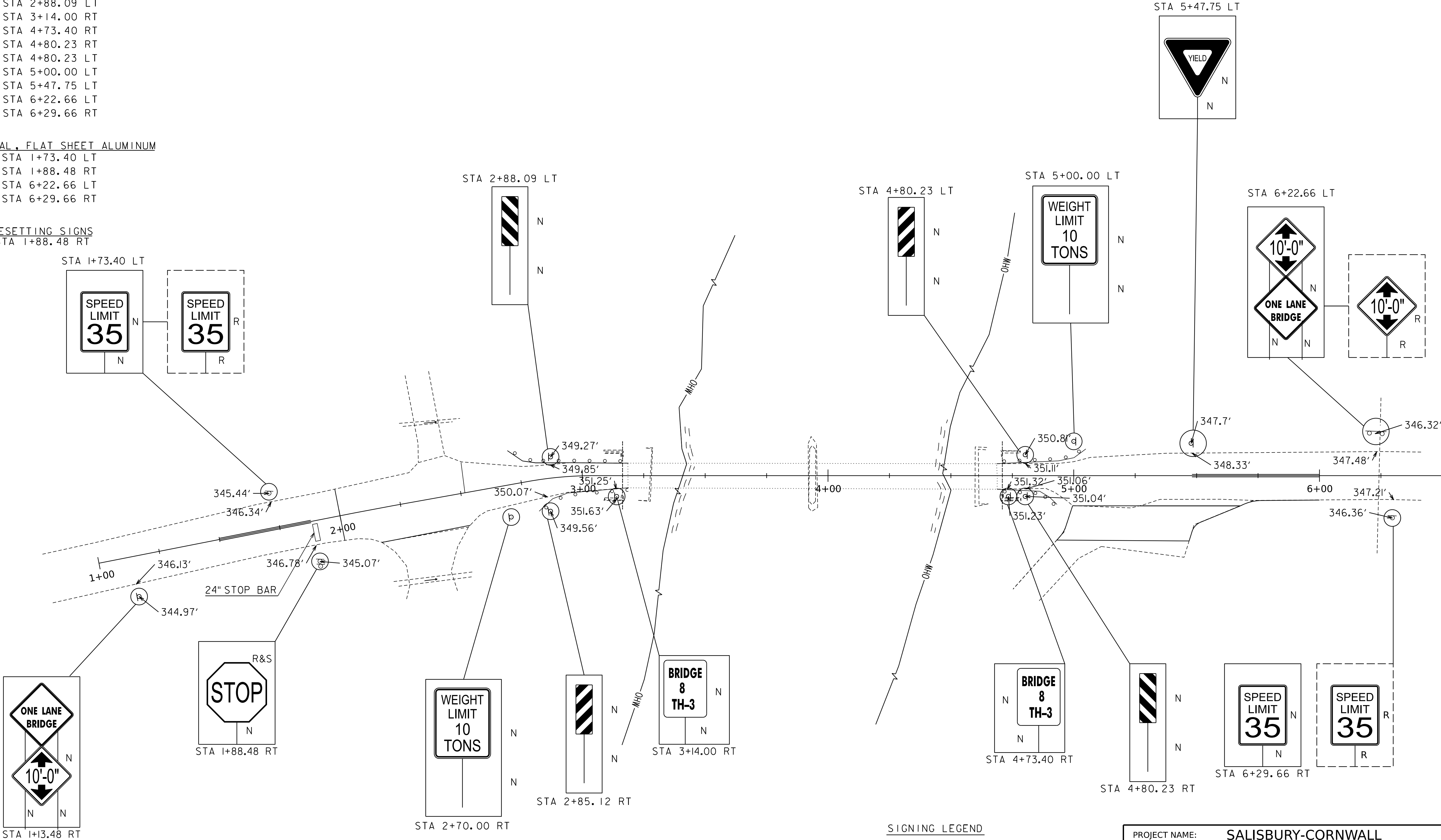
STA 1+88.28 RT 1.3 TO RT 8.3

SIGN REMOVAL, FLAT SHEET ALUMINUM

STA 1+73.40 LT  
STA 1+88.48 RT  
STA 6+22.66 LT  
STA 6+29.66 RT

RESETTING SIGNS

STA 1+88.48 RT



SIGNING LEGEND

R = REMOVE  
R&S = REMOVE AND SALVAGE  
S = SALVAGE  
N = NEW

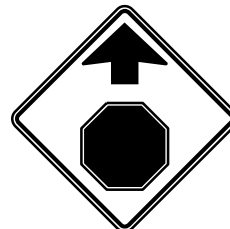

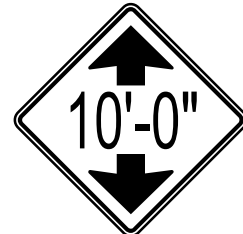

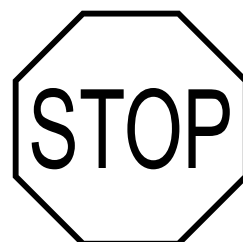
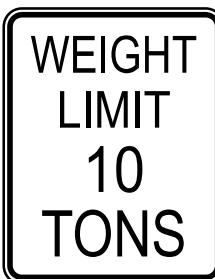


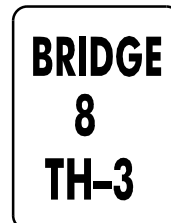
PROJECT NAME: SALISBURY-CORNWALL

PROJECT NUMBER: BO 1445(39)

FILE NAME: s18j164signs.dgn  
PROJECT LEADER: J.B. MCCARTHY  
DESIGNED BY: A. VAN BUSKIRK  
SIGNS AND LINES SHEET 1

PLOT DATE: 11-MAR-2025  
DRAWN BY: A. VAN BUSKIRK  
CHECKED BY: F. BARROWS  
SHEET 11 OF 20

TRAFFIC SIGN SUMMARY SHEET

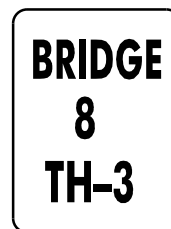


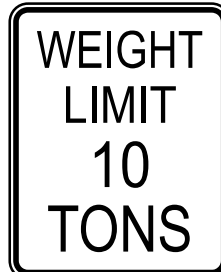


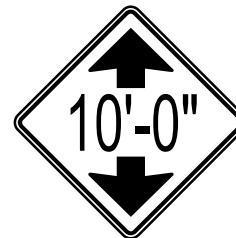
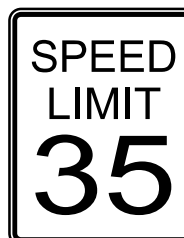

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW SIGN								NEW SIGN POSTS															REMARKS	SIGN DETAIL										
		E A	WIDTH (in)	HEIGHT (in)									EXIST POST RE TAIN	S A L V A G E	NO. OF P O S T S	SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL				R E F R A I M E R N E E D	STD. SHEET NUMBER	DETAIL ON SHEET NUMBER	MUTCD/ SHSM						
																1.75	2.0	2.5	A N C H O R	S L E E V E	3.0	4.0	4.0 MOD	FOUND- ATION	3.0	3.5	4.0		5.0					FTG. SIZE		WEIGHT	POST SIZE		
																																		1b/ft	1b/ft			24"	30"
Approx. 200 FT AHEAD OF STOP SIGN AT STA I+88.48 LT		I	30	30	6.25						2		24		X																			W3-2					
STA I+3.48 RT		I	30	30	6.25						2		24		X																			W5-3					
STA I+3.48 RT		I	30	30	6.25						*				X																			W12-2					
STA I+73.40 LT		I	24	30	3.00						I		12		X																			R2-1					
STA I+88.48 RT		I	30	30	5.12						I		12		X																			R1-1					
STA 2+70.00 RT		I	24	30	5.00						I		12		X																			R12-1					
STA 2+85.12 RT		I	12	36	3.00						I		11		X																			OM3-R					
STA 2+88.09 LT		I	12	36	3.00						I		11		X																			OM3-R					
STA 3+14.00 RT		I	6	10	0.42						I	7			X																			VD-701					

NOTE: *INDICATES THE SIGN SHARES THE POSTS WITH THE SIGN ABOVE IT

PROJECT NAME:	SALISBURY-CORNWALL
PROJECT NUMBER:	BO 1445(39)
FILE NAME: s18j164signs.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: F. BARROWS
SIGNS AND LINES SHEET 2	SHEET 12 OF 20



TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST SALVAGE RETAIN		NO. OF POSTS	NEW SIGN POSTS										RE FOR RE PAIR NEE D	REMARKS	SIGN DETAIL									
												SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)									W-SHAPE STEEL						
		E A	WIDTH (in)	HEIGHT (in)	“A”	“B”	SALV SIGN	SALV TIS				1.75	2.0	2.5	ANCHOR	S LEEVE	3.0	4.0	4.0 MOD	FOUND- ATION	3.0			3.5	4.0	5.0	FTG. SIZE		WEIGHT	POST SIZE			
																											lb/ft	lb/ft			lb/ft	24"	30"
STA 4+73.40 RT		I	6	10	0.42						I	7				X											VD-70I	T-42					
STA 4+80.23 LT		I	12	36	3.00						I		II			X														OM3-L			
STA 4+80.23 RT		I	12	36	3.00						I		II			X														OM-3R			
STA 2+70.00 RT		I	24	30	5.00						I		12			X														R12-1			
STA 5+47.75 LT		I	30	30	3.3						I		12			X														R1-2			
STA 6+22.66 LT		2	30	30	6.3						2		24			X														W5-3			
STA 6+22.66 LT		2	30	30	6.3						2					X														W12-2			
STA 6+29.66 RT		I	18	24	3.00						I		12			X														R2-1			
OFF PROJECT, UPSTATION LEFT		2	30	30	6.3						2		12			X														W5-3			

NOTE: *INDICATES THE SIGN SHARES THE POSTS WITH THE SIGN ABOVE IT  
FINAL POST LENGTHS ARE TO BE DETERMINED  
IN THE FIELD. POST SIZES ARE COMPUTED  
BASED ON INFORMATION FURNISHED ON THE  
STANDARD SHEETS AND THE VTRANS "SIGN  
POST DESIGN GUIDELINE."

	FT 14	FT 166	FT 180		EA	LB	LB	LB	LB	LB	LB	EA	LB	EA	EA	LB
TOTALS	SF 77.3	SF	EA	SF												

PROJECT NAME: SALISBURY-CORNWALL  
PROJECT NUMBER: BO 1445(39)

FILE NAME: s18j164signs.dgn  
PROJECT LEADER: J.B. MCCARTHY  
DESIGNED BY: A. VAN BUSKIRK  
SIGNS AND LINES SHEET 3

PLOT DATE: 11-MAR-2025  
DRAWN BY: A. VAN BUSKIRK  
CHECKED BY: F. BARROWS  
SHEET 13 OF 20

SOIL CLASSIFICATION

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

ROCK QUALITY DESIGNATION

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

SHEAR STRENGTH

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

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

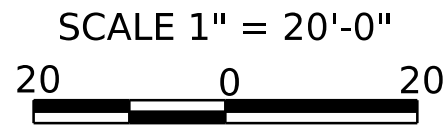
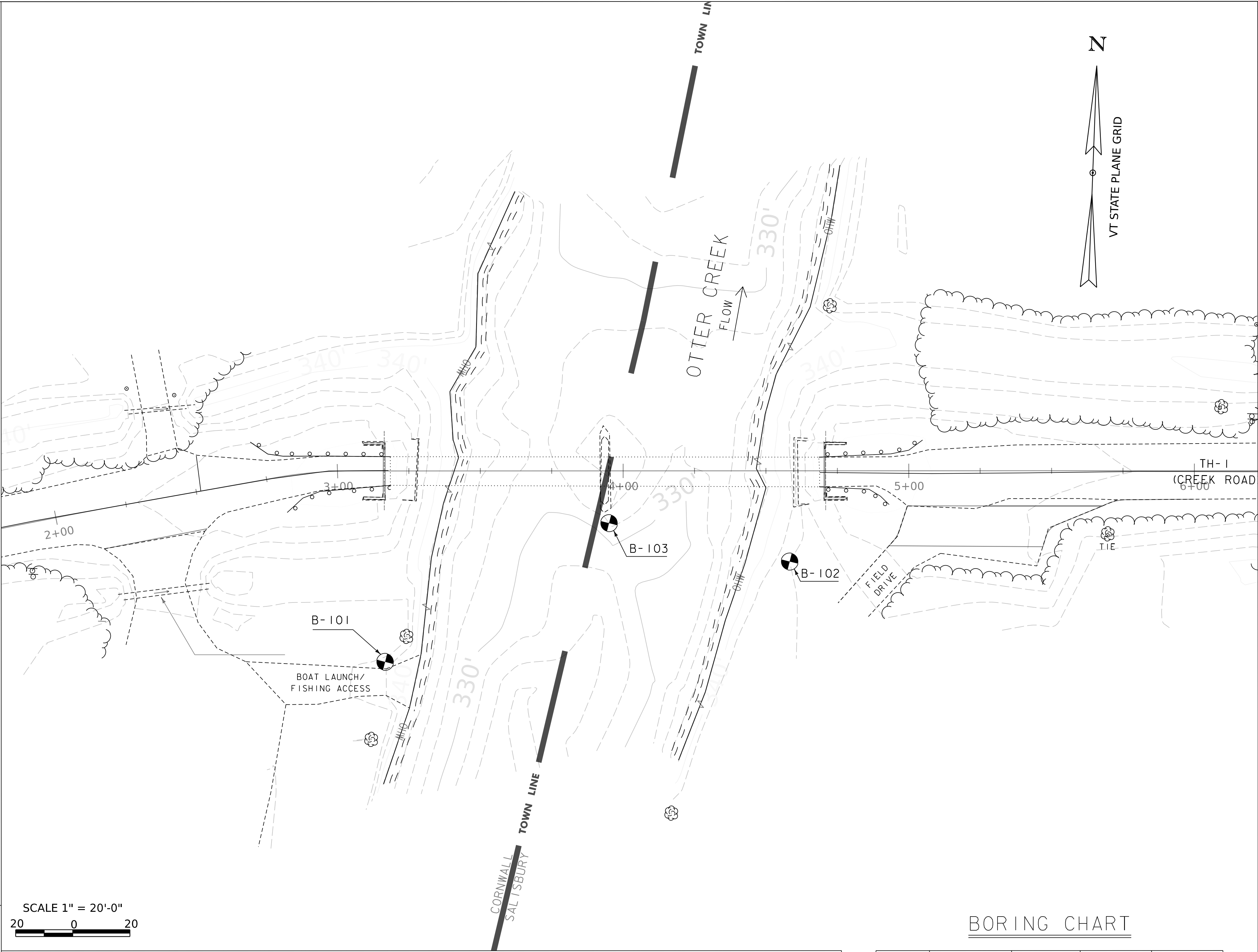
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊕	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
ROD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR

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



GENERAL NOTES

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

BORING CHART

HOLE NO.	SURV. STATION	OFFSET	GROUND ELEV.	ELEV. TLOB
B-101	3+19.49	RT 67.0	343.00	
B-102	4+58.36	RT 31.8	344.00	
B-103	3+95.13	RT 18.1	332.00	

PROJECT NAME: SALISBURY-CORNWALL

PROJECT NUMBER: BO 1445(39)

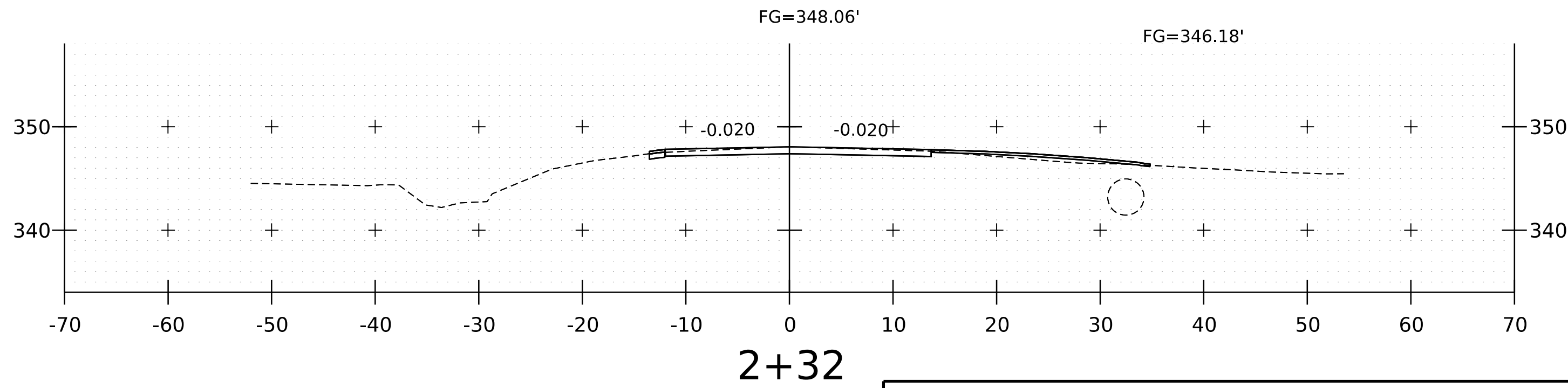
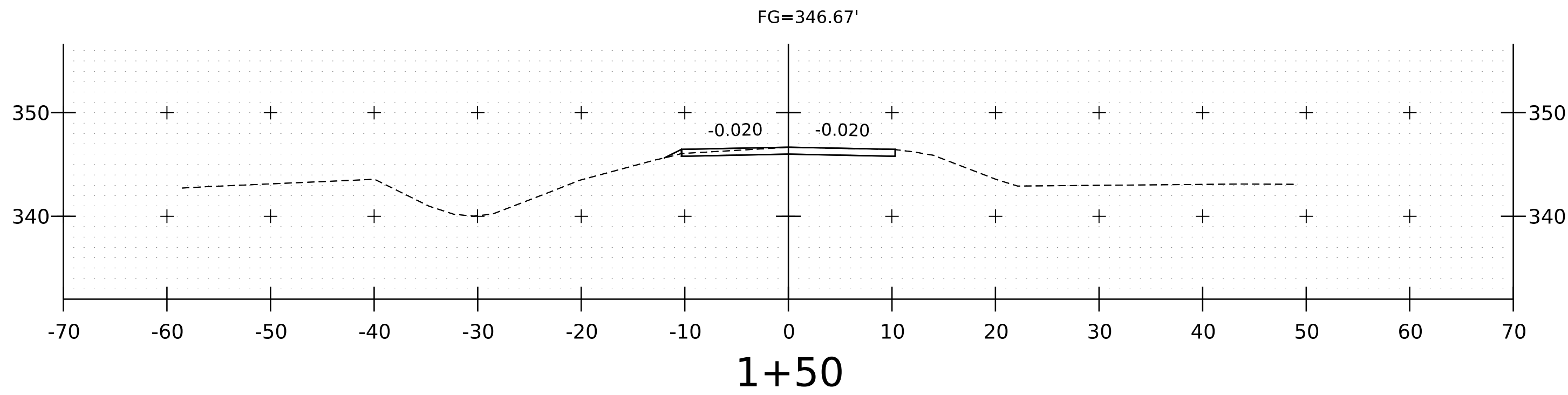
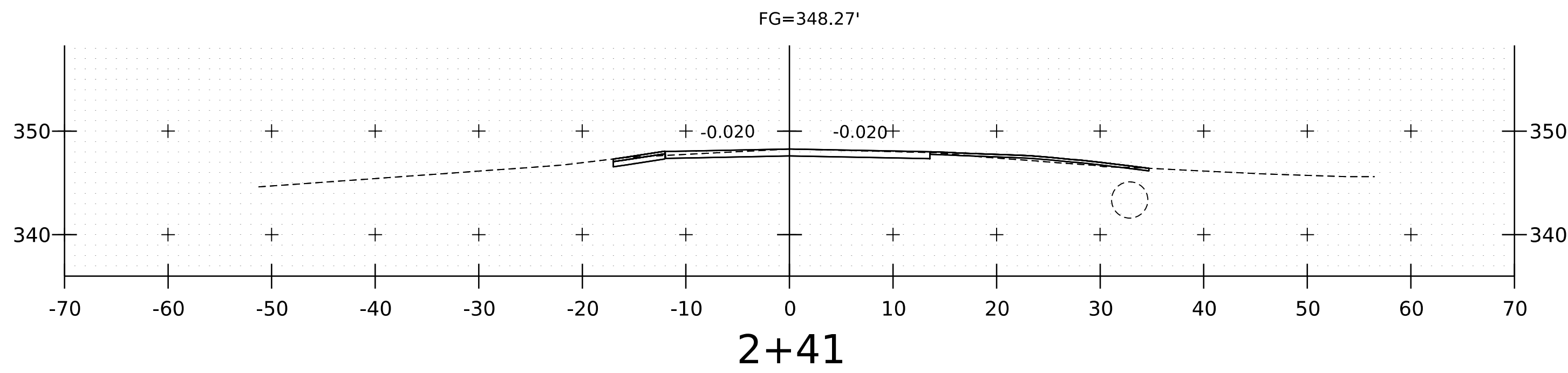
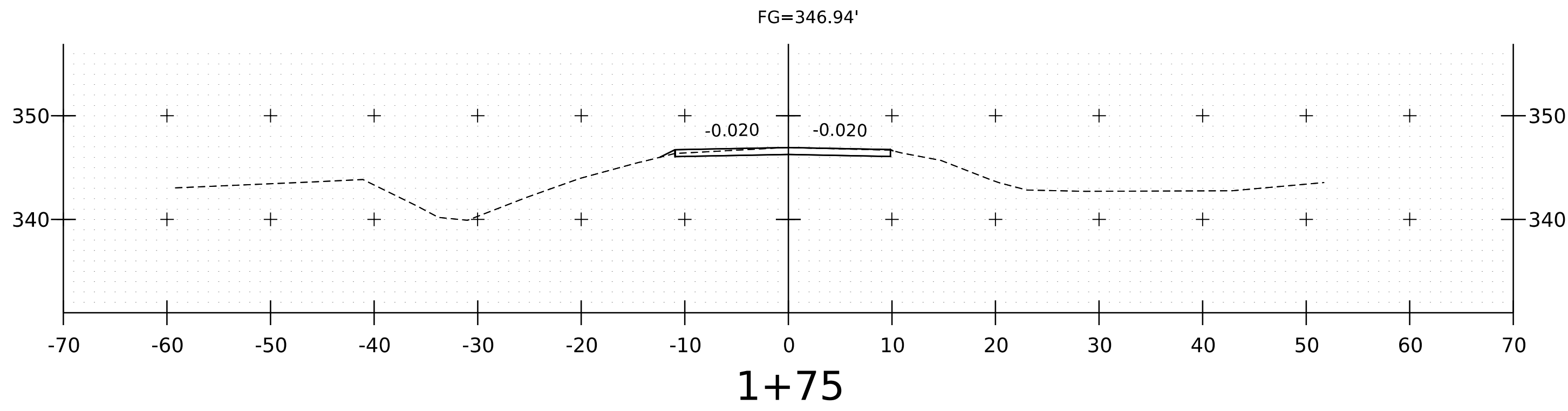
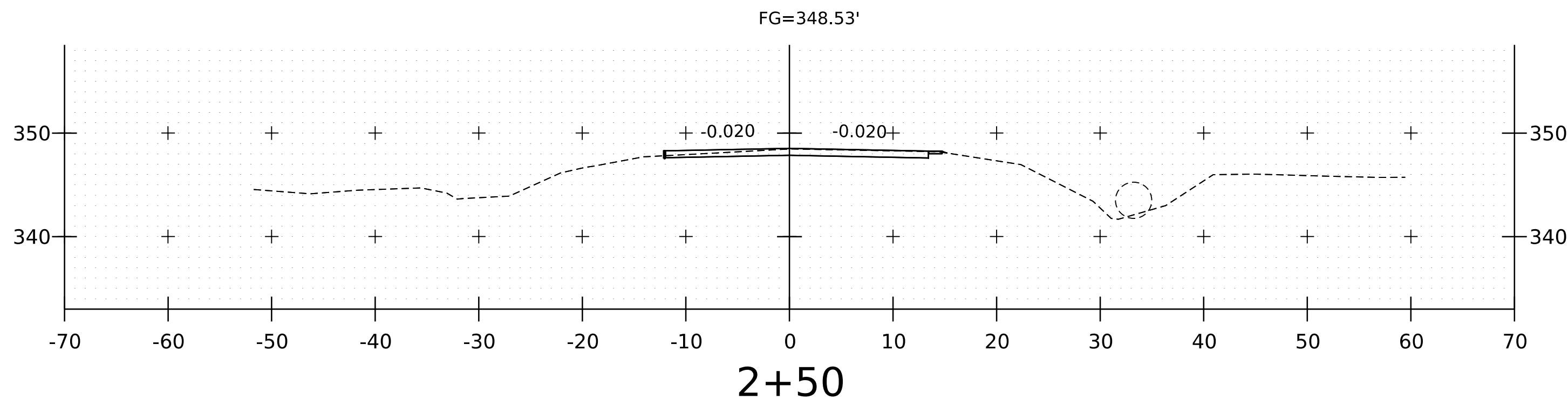
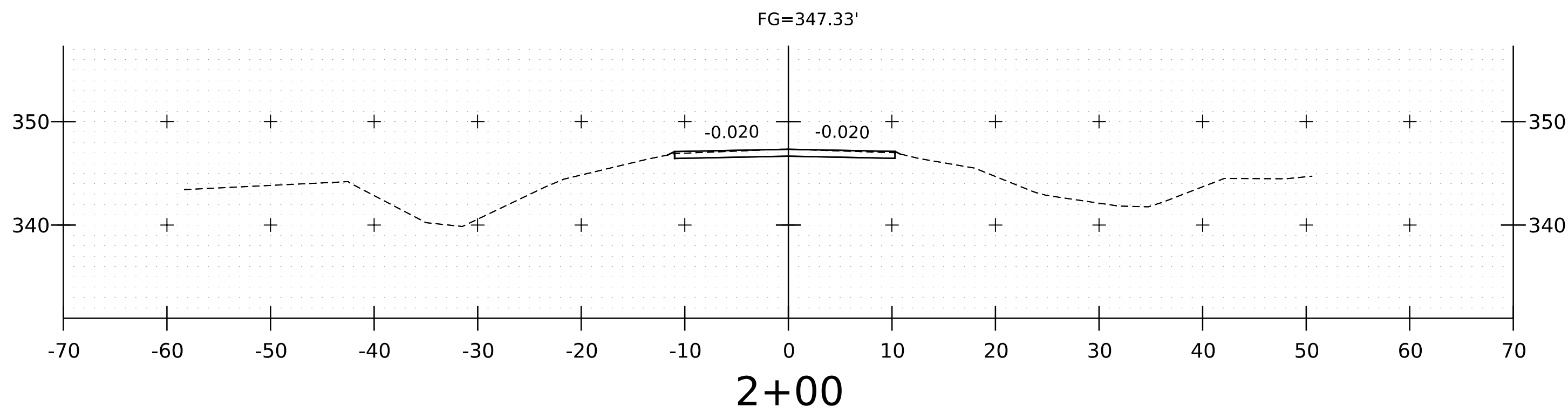
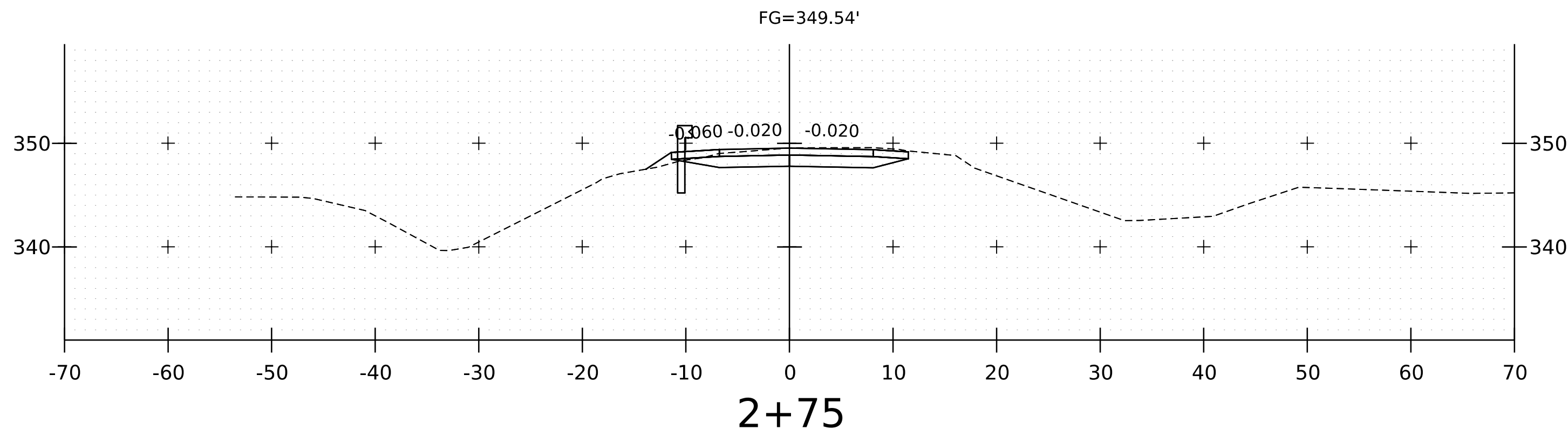
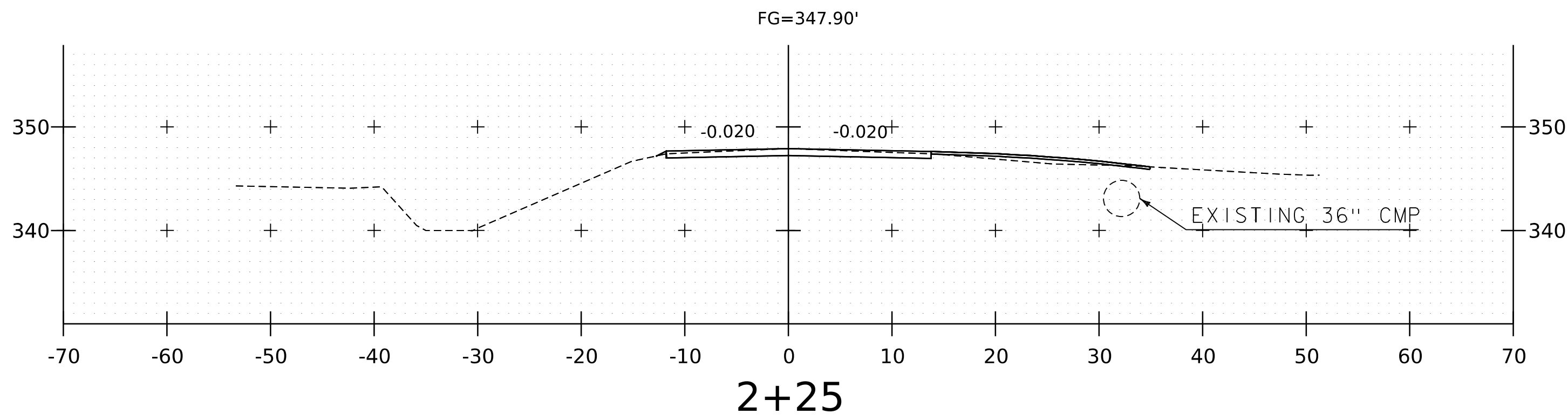
FILE NAME: sl8jl64bor.dgn  
PROJECT LEADER: JB MCCARTHY  
DESIGNED BY: A. VAN BUSKIRK  
BORING INFORMATION SHEET

PLOT DATE: 11-MAR-2025  
DRAWN BY: A. VAN BUSKIRK  
CHECKED BY: -----  
SHEET 14 OF 20

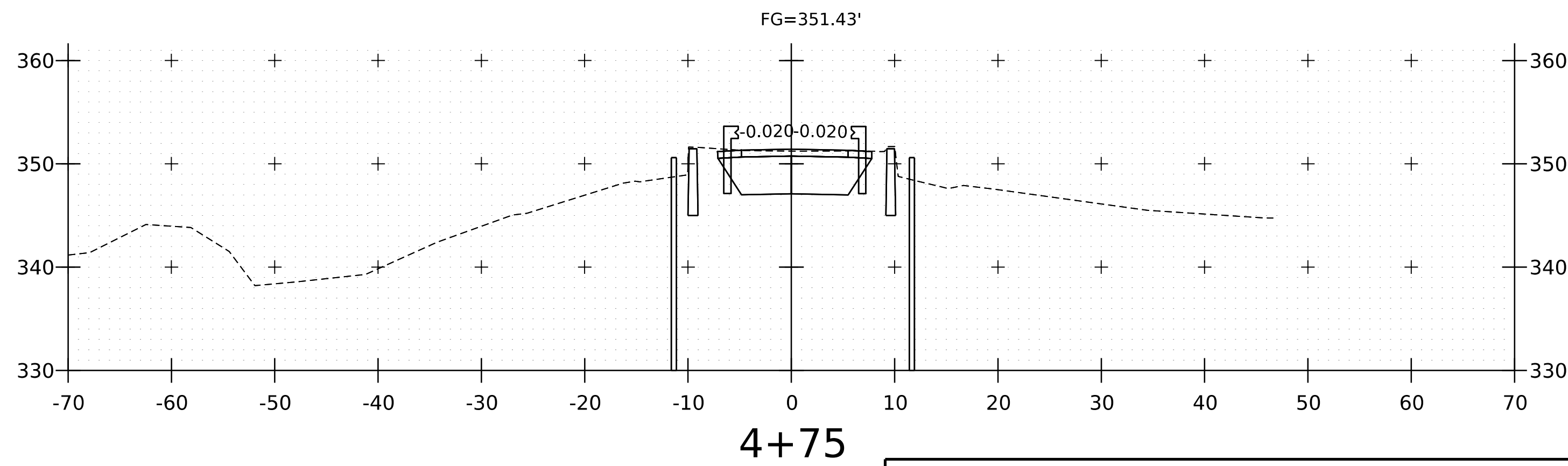
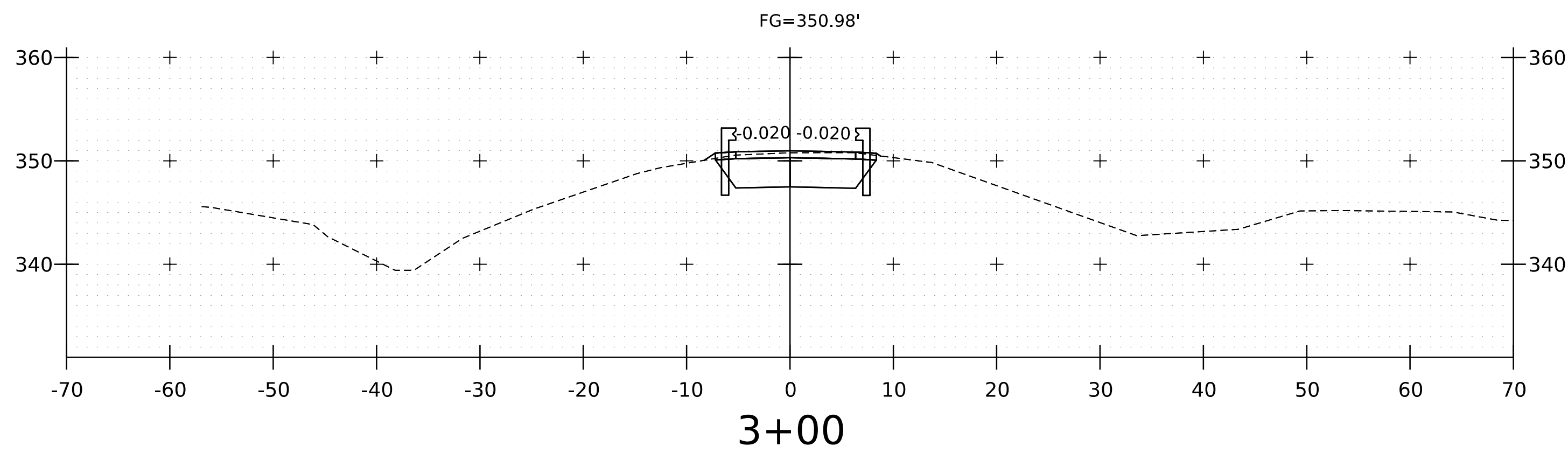
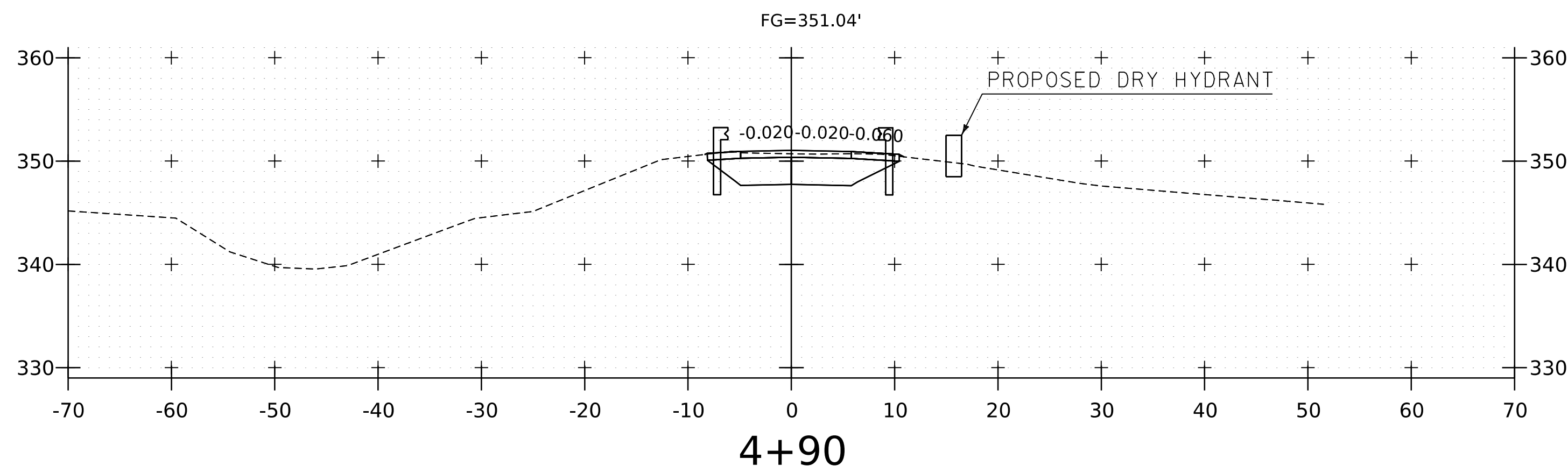
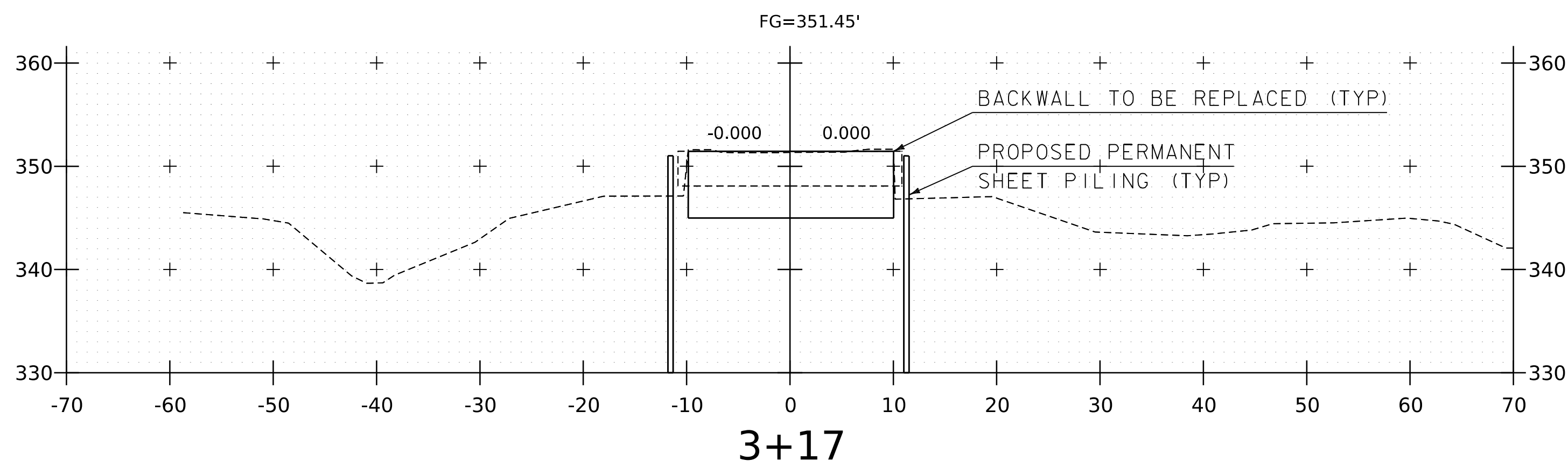
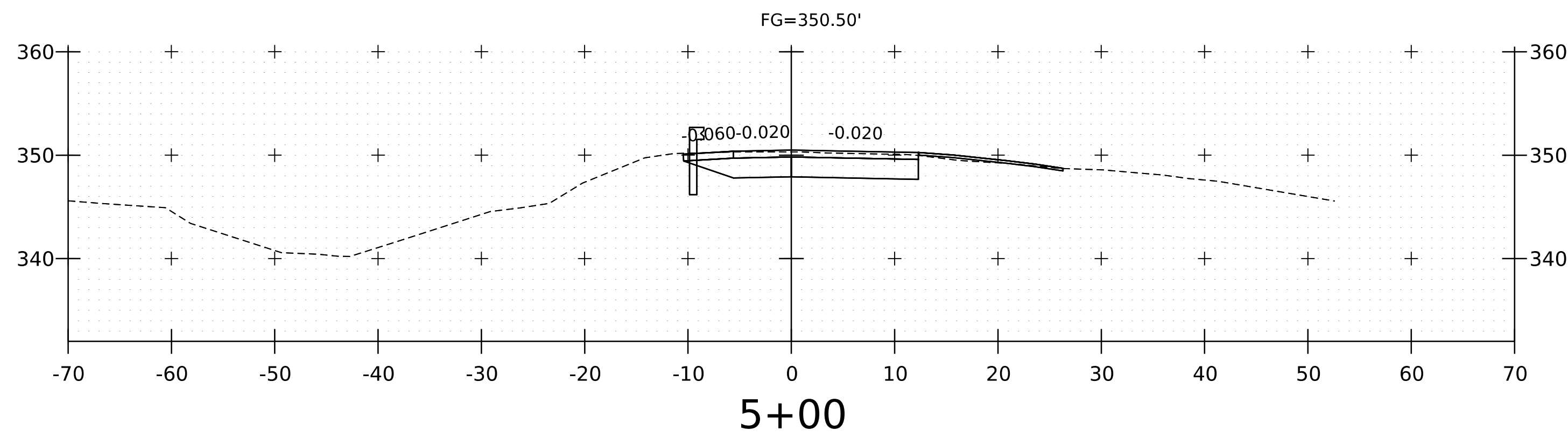
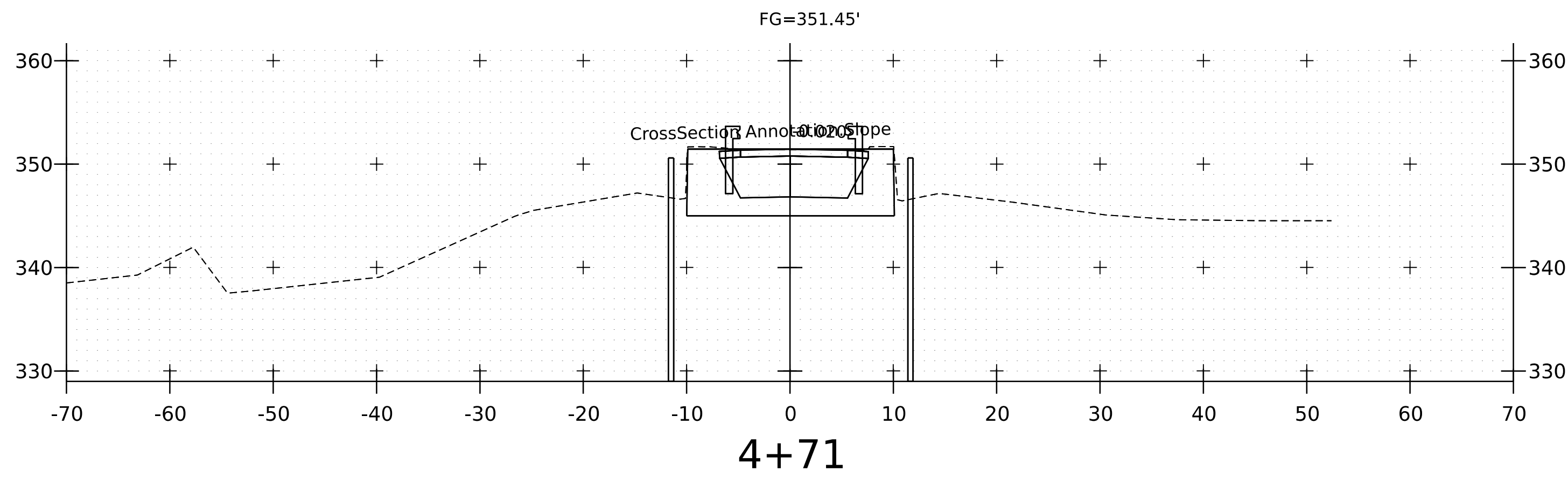
DEFINITIONS (AASHTO)

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 > 0.0787" (#10 sieve).  
SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).  
SILT - 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.

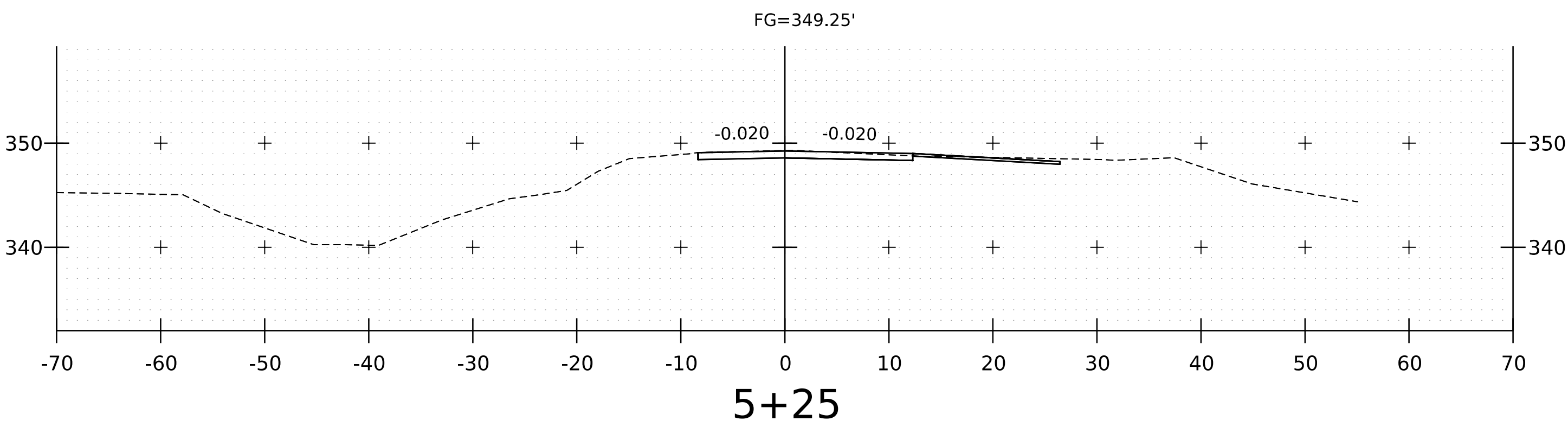
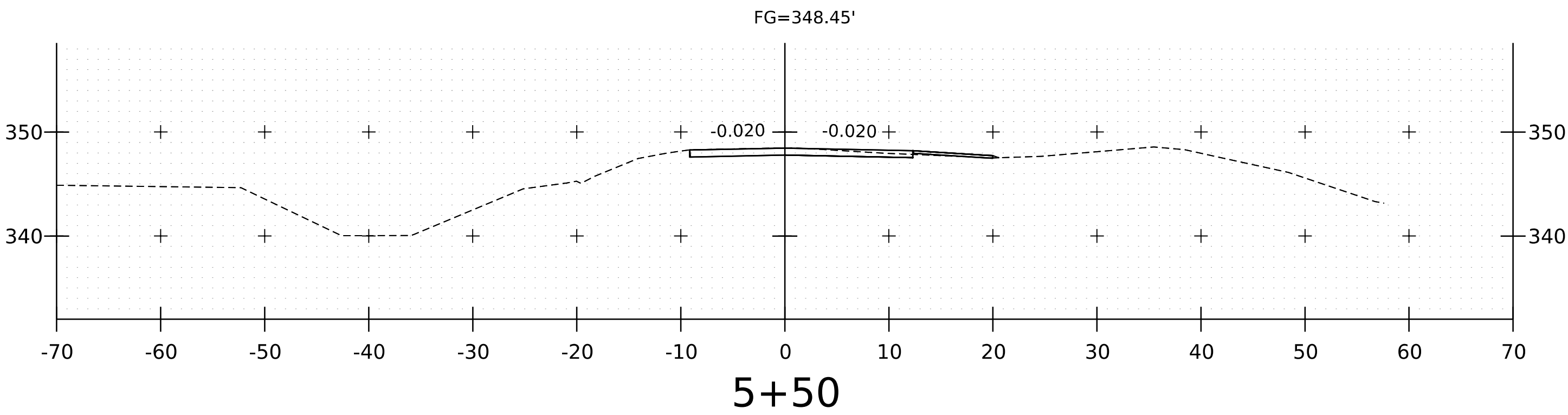
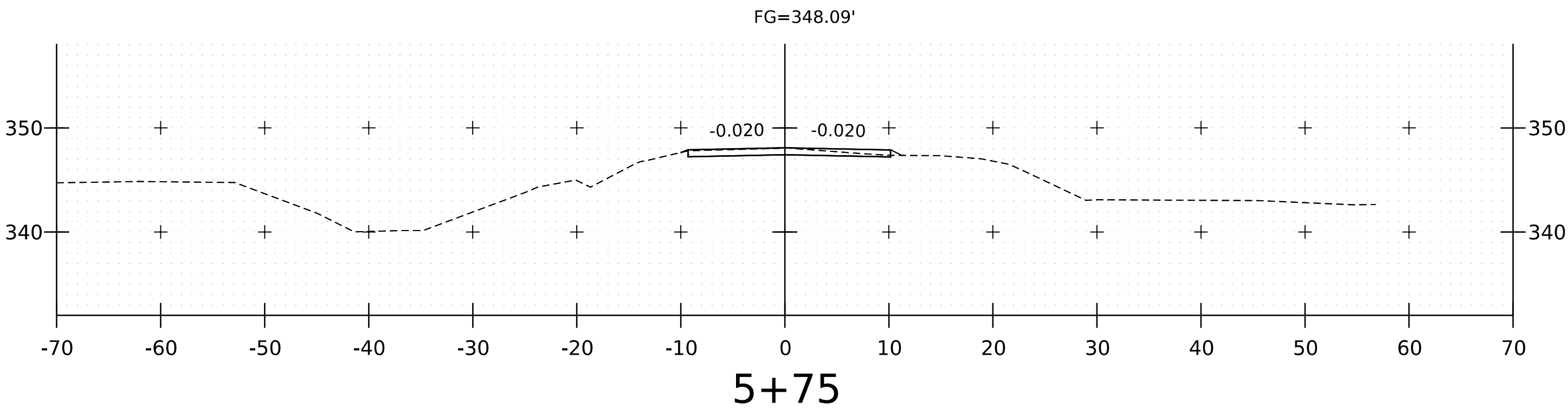
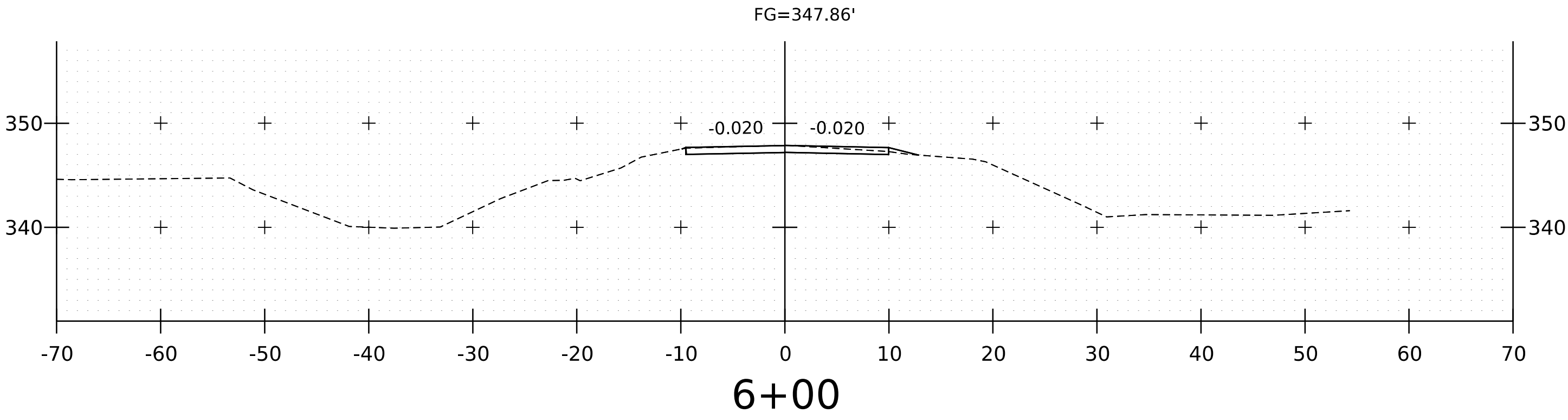


PROJECT NAME:	SALISBURY-CORNWALL
PROJECT NUMBER:	BO 1445(39)
FILE NAME: s18j164xs.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: JB MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: -----
TH1-3 CROSS SECTIONS SHEET 1	SHEET 15 OF 20

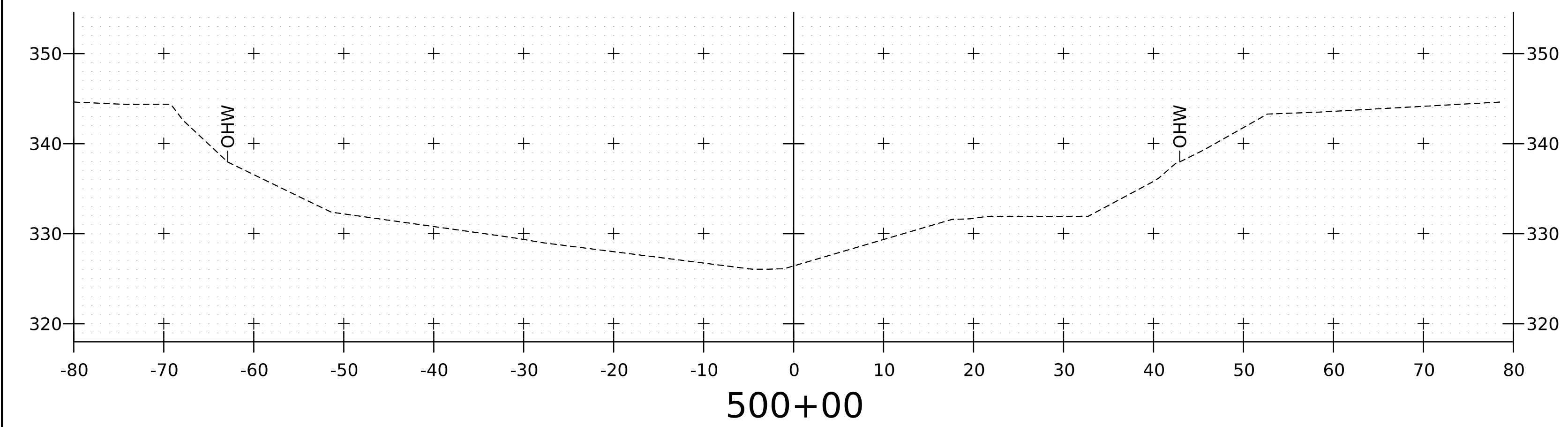
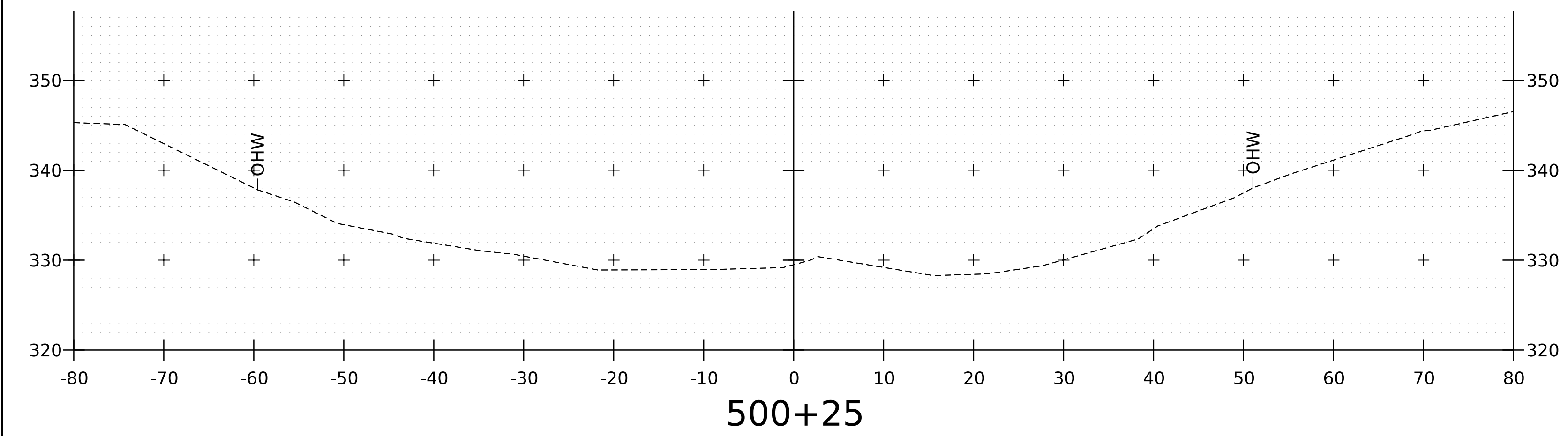
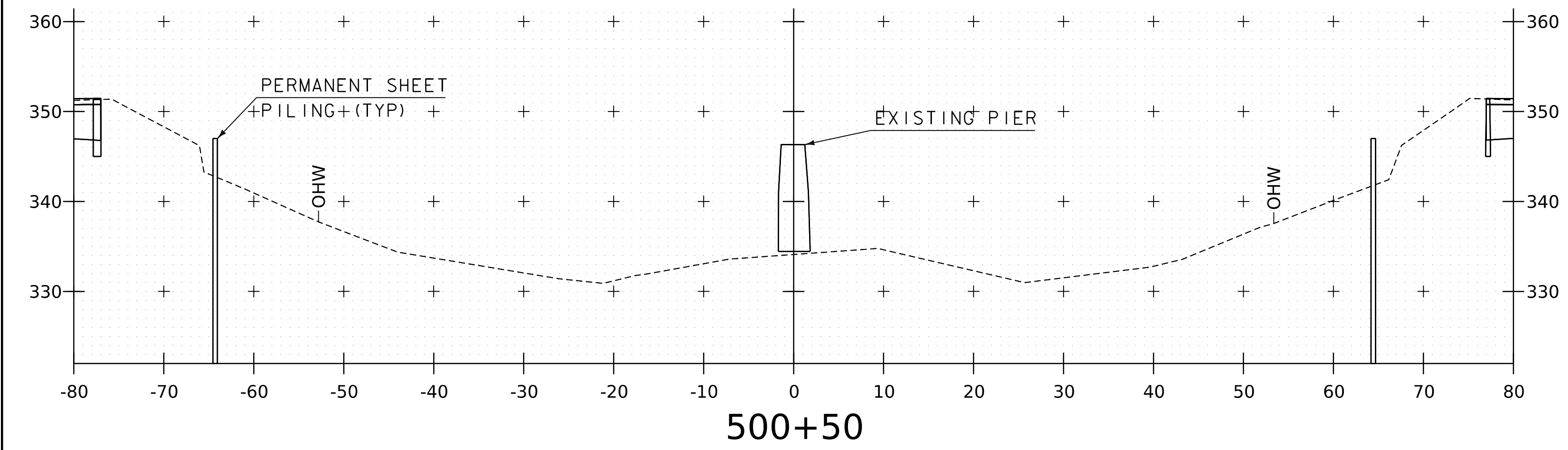


PROJECT NAME:	SALISBURY-CORNWALL
PROJECT NUMBER:	BO 1445(39)
FILE NAME:	s18j164xs.dgn
PROJECT LEADER:	JB MCCARTHY
DESIGNED BY:	A. VAN BUSKIRK
TH1-3 CROSS SECTIONS SHEET 2	
PLOT DATE:	11-MAR-2025
DRAWN BY:	A. VAN BUSKIRK
CHECKED BY:	-----
SHEET	16 OF 20

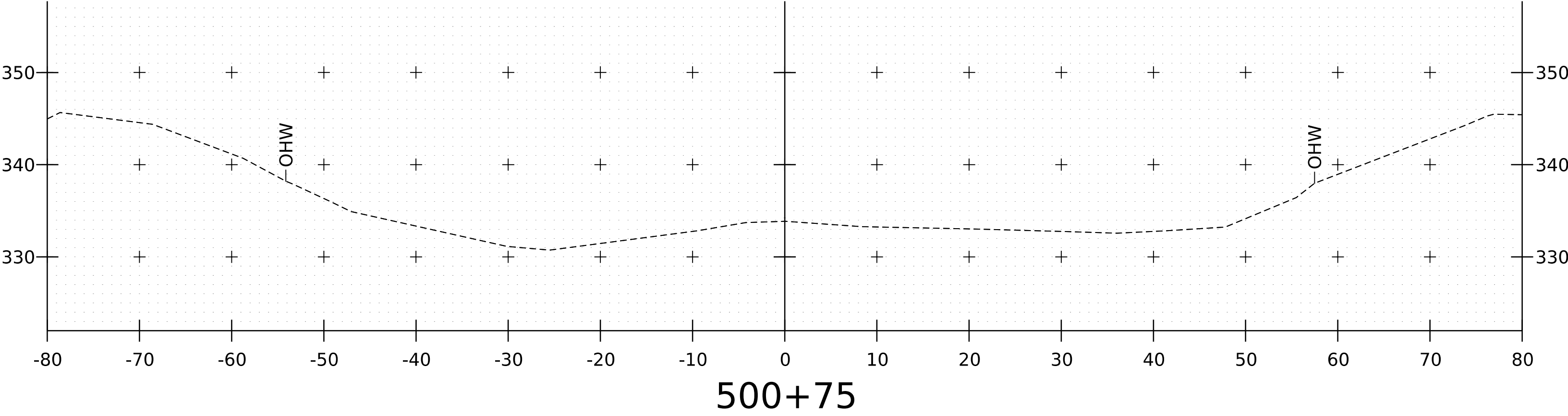
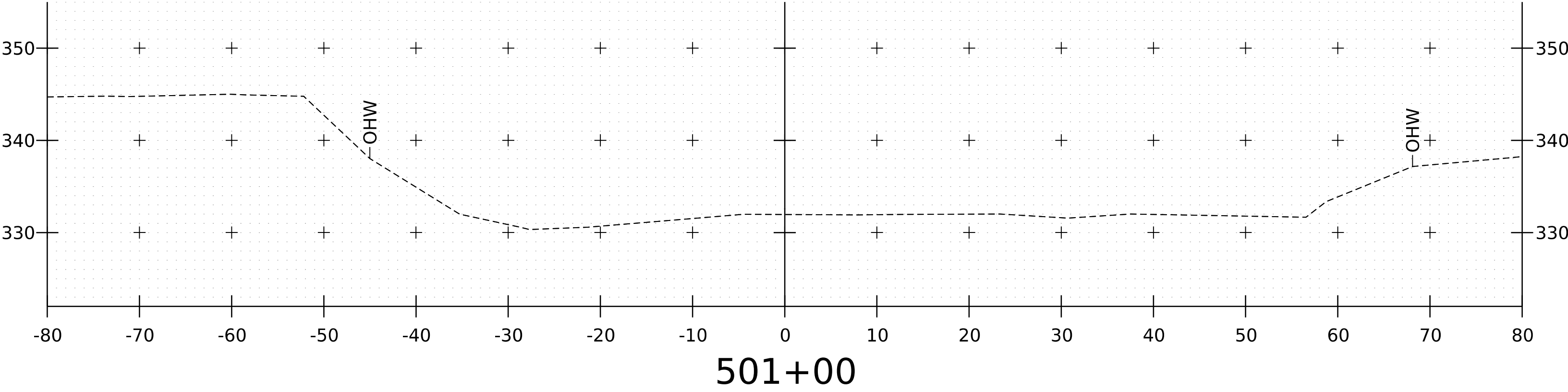




PROJECT NAME:	SALISBURY-CORNWALL
PROJECT NUMBER:	BO 1445(39)
FILE NAME: s18j164xs.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: s18j164xs.dgn	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: -----
TH1-3 CROSS SECTIONS SHEET 3	SHEET 17 OF 20

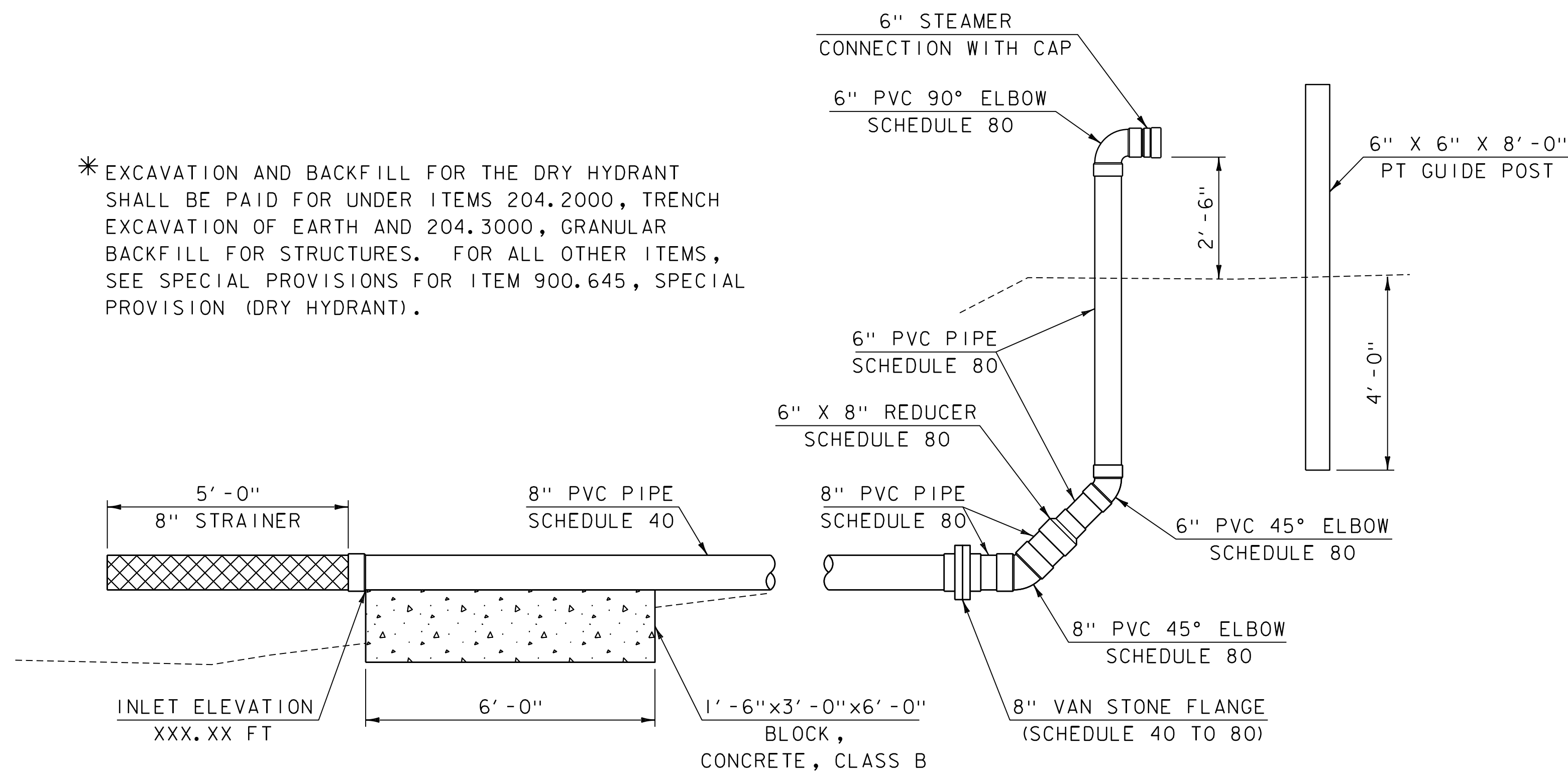


PROJECT NAME:	SALISBURY-CORNWALL
PROJECT NUMBER:	BO 1445(39)
FILE NAME: s18j164xsChann	PLOT DATE: 11-MAR-2025
PROJECT LEADER: JB MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY: F. BARROWS
Channel Sections Sheet 1	SHEET 18 OF 20

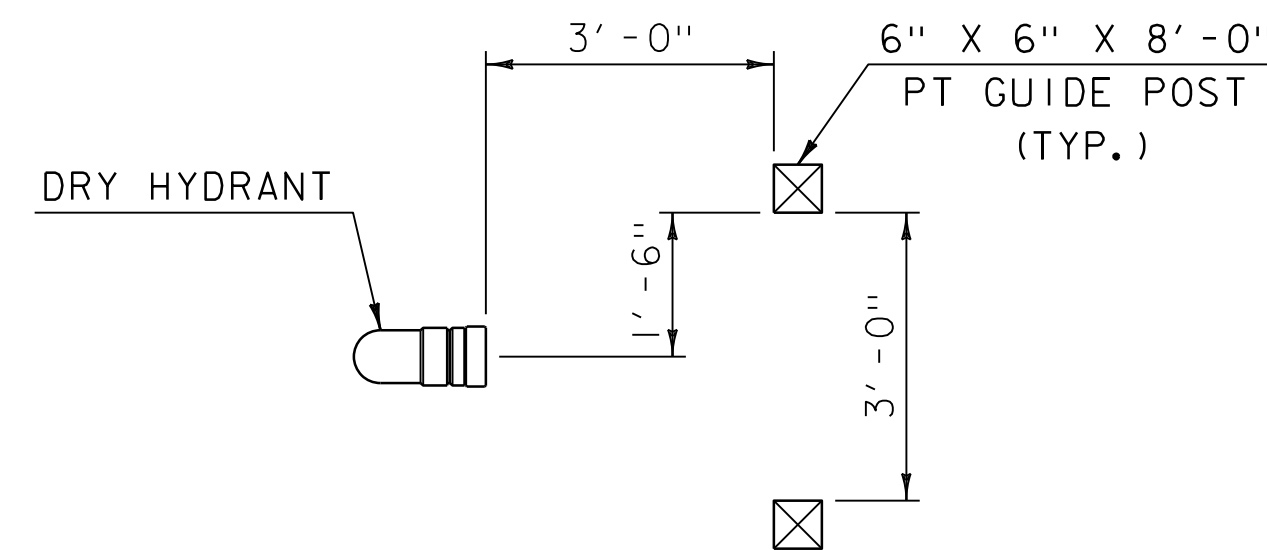


PROJECT NAME:	SALISBURY-CORNWALL		
PROJECT NUMBER:	BO 1445(39)		
FILE NAME:	s18j164xsChann.dgn	PLOT DATE:	11-MAR-2025
PROJECT LEADER:	JB MCCARTHY	DRAWN BY:	A. VAN BUSKIRK
DESIGNED BY:	A. VAN BUSKIRK	CHECKED BY:	F. BARROWS
CHANNEL CROSS SECTIONS SHEET 2		SHEET	19 OF 20

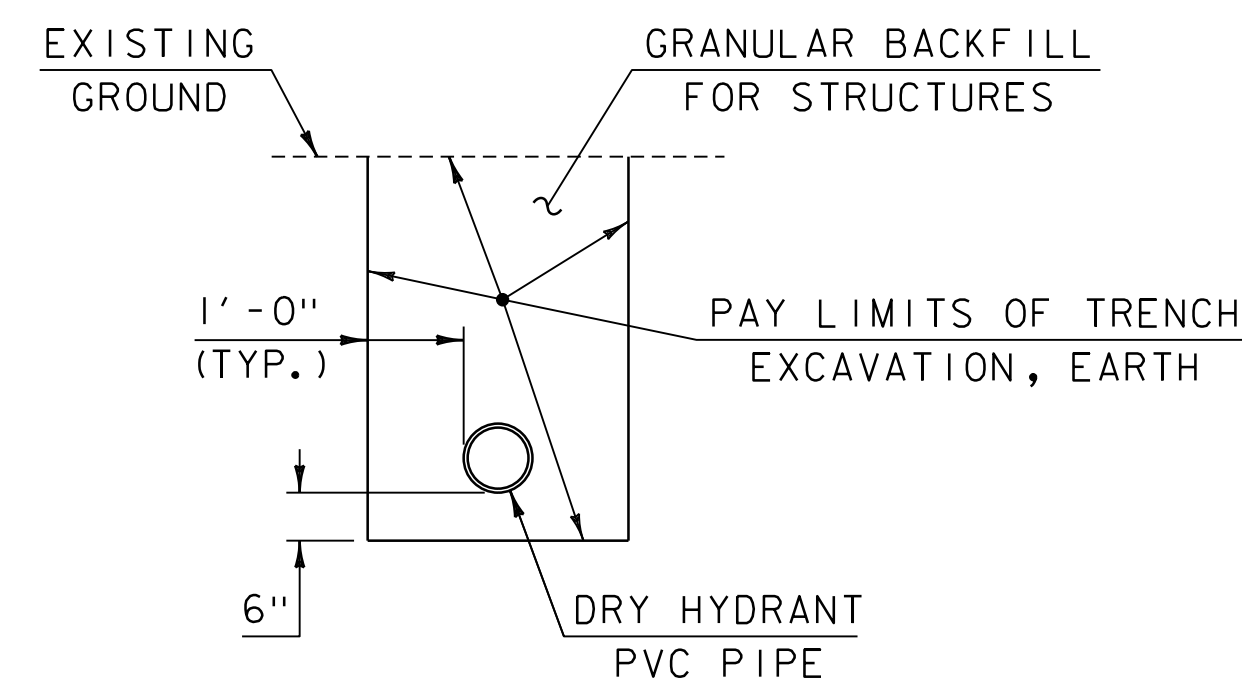
* EXCAVATION AND BACKFILL FOR THE DRY HYDRANT SHALL BE PAID FOR UNDER ITEMS 204.2000, TRENCH EXCAVATION OF EARTH AND 204.3000, GRANULAR BACKFILL FOR STRUCTURES. FOR ALL OTHER ITEMS, SEE SPECIAL PROVISIONS FOR ITEM 900.645, SPECIAL PROVISION (DRY HYDRANT).



*DRY HYDRANT ELEVATION  
NOT TO SCALE



DRY HYDRANT PLAN  
NOT TO SCALE



EARTHWORK LIMITS  
NOT TO SCALE

PROJECT NAME: SALISBURY-CORNWALL  
PROJECT NUMBER: BO 1445(39)

FILE NAME: sl8jl64detail.dgn	PLOT DATE: 11-MAR-2025
PROJECT LEADER: JB MCCARTHY	DRAWN BY: A. VAN BUSKIRK
DESIGNED BY: A. VAN BUSKIRK	CHECKED BY:
DRY HYDRANT DETAILS	SHEET 20 OF 20