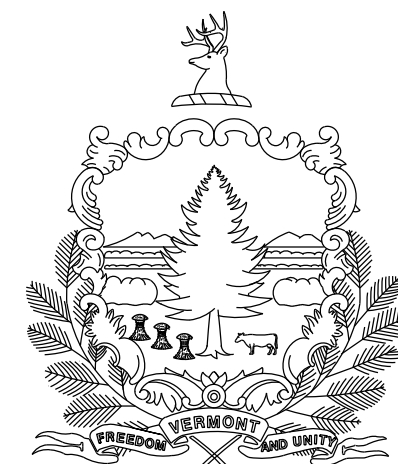


REVIEWER NOTES:

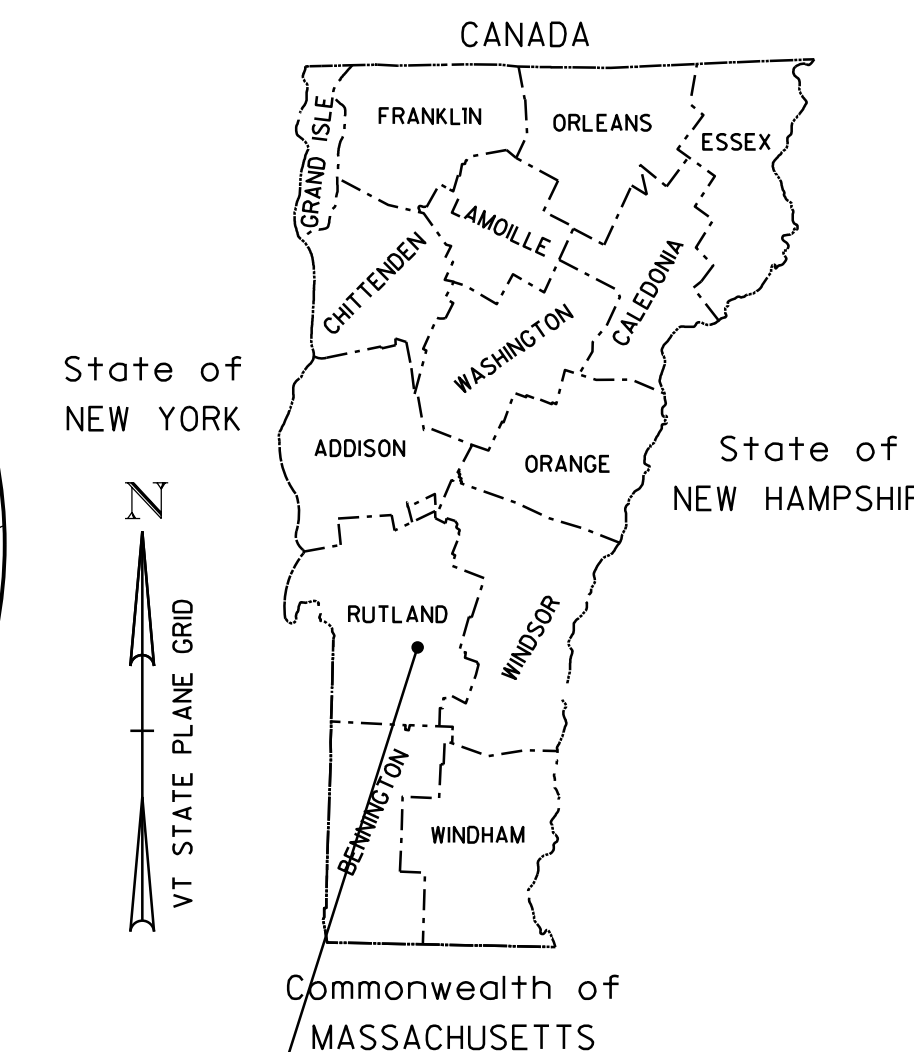
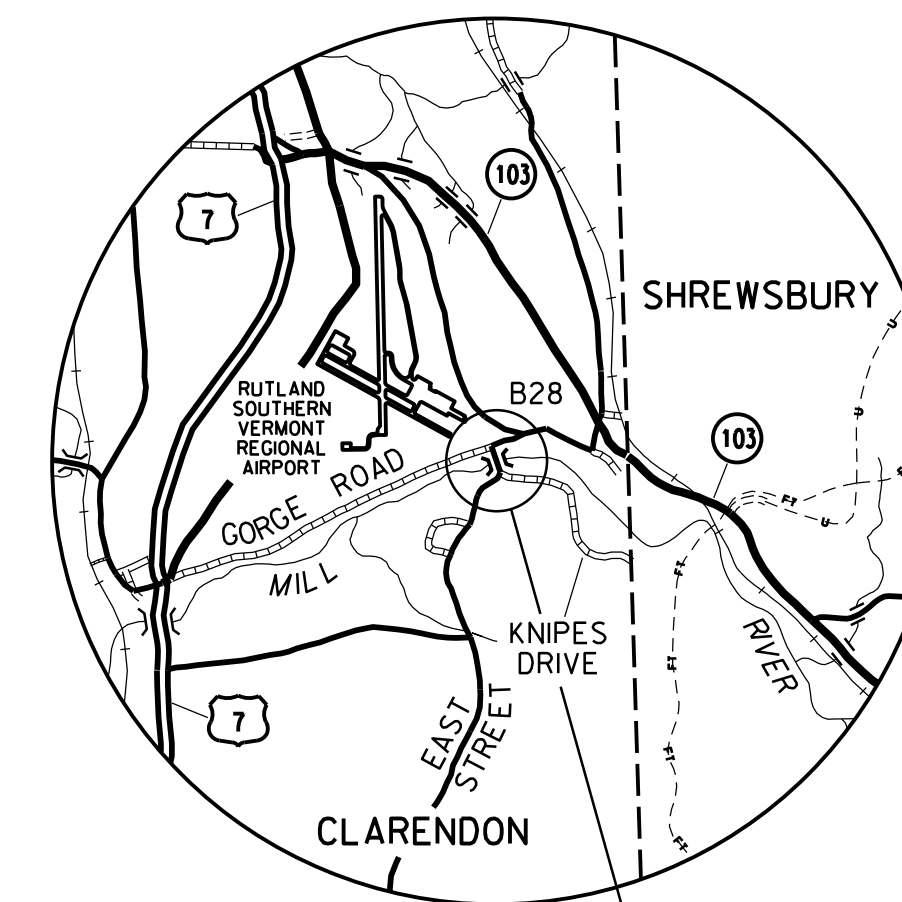
1. ORDINARY HIGH WATER (OHW) WAS NOT PROVIDED IN THE EXISTING CONDITIONS FILE.
2. FOR ENVIRONMENTAL PERMITTING PURPOSES, THIS PROJECT IS ASSUMED TO BE CLASSIFIED AS A NON-JURISDICTIONAL, TYPE I PROJECT.
3. AN OVERSIZED BOX TRUCK DAMAGED THE KNEE BRACES ON OCTOBER 19, 2020. THE REPAIRS TO THE KNEE BRACES AS SHOWN ON THESE PLANS DO NOT INCORPORATE THIS DAMAGE AS IT OCCURRED AFTER HOYLE TANNER'S INITIAL SITE VISIT. ADDITIONAL QUANTITIES OF ITEM 900.620, SPECIAL PROVISION (EPOXY REPAIR) HAVE BEEN INCLUDED IN THE ESTIMATE TO ACCOUNT FOR THIS DAMAGE. LOCATIONS FOR REPAIRS WILL BE SHOWN IN THE FINAL PLANS SUBMISSION.
4. THE HYDRAULIC REPORT WILL NOT BE PREPARED FOR THIS REHABILITATION PROJECT DUE TO FINDINGS PRESENTED IN THE HYDRAULICS MEMO.
5. CONCRETE PIPE IS PROPOSED FOR THE DRIVEWAY AT STA 12+58.77 TO STA 13+00.36 WITH 6" COVER IN ORDER TO KEEP ALL WORK WITHIN ROW LIMITS.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF CLARENDON
COUNTY OF RUTLAND



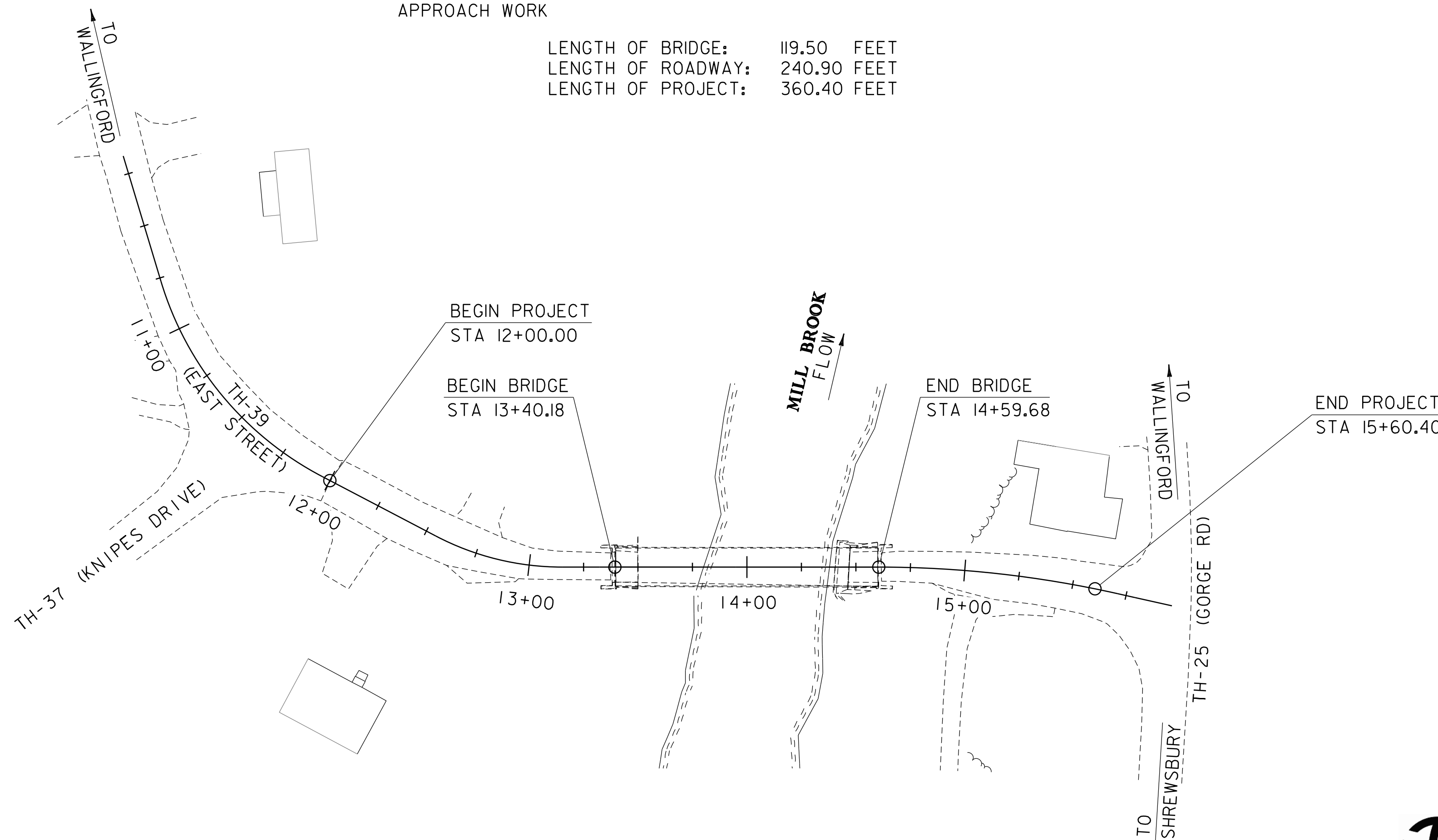
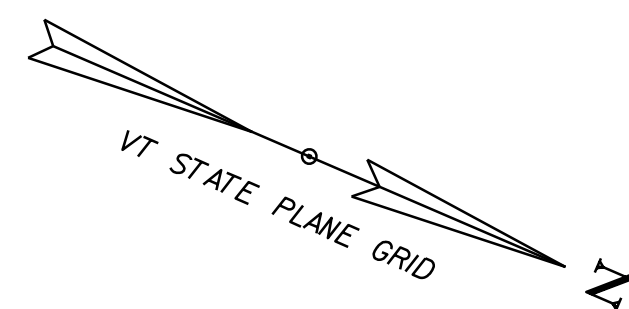
CLARENDON
BO 1443(55)

ROUTE NO: TOWN HIGHWAY 39 (EAST STREET) (LOCAL ROAD, CLASS 3) BRIDGE NO: 28

PROJECT LOCATION: BEGINNING AT THE INTERSECTION OF GORGE ROAD AND EAST STREET APPROXIMATELY 1.4 MILES EAST OF VT ROUTE 7 AND EXTENDING SOUTHERLY ALONG EAST STREET (TH-39) FOR APPROXIMATELY 0.08 MILES

PROJECT DESCRIPTION: REHABILITATION OF THE KINGSLEY COVERED BRIDGE, INCLUDING MINOR SUBSTRUCTURE AND APPROACH WORK

LENGTH OF BRIDGE: 119.50 FEET
LENGTH OF ROADWAY: 240.90 FEET
LENGTH OF PROJECT: 360.40 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 :	G. HITCHCOCK AND B. HORBAL
SURVEYED DATE :	9/12/2019
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (11)

SCALE 1" = 40' - 0"
0 40



PRELIMINARY PLANS 1/12/2022

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : JAMES B. MCCARTHY	
PROJECT NAME :	CLARENDON
PROJECT NUMBER :	BO 1443 (55)
SHEET 1 OF 27 SHEETS	

INDEX OF SHEETS

FINAL HYDRAULIC REPORT

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	EXISTING AND PROPOSED PORTAL ELEVATIONS
4	EXISTING AND PROPOSED BRIDGE SECTIONS
5 - 6	TYPICAL SECTIONS 1-2
7	CONVENTIONAL SYMBOLOGY LEGEND
8	TIE SHEET
9	ALIGNMENT LAYOUT
10	LAYOUT SHEET
11	PROFILE SHEET
12	TRAFFIC SIGN AND LINE LAYOUT
13	PLAN AND ELEVATION
14	ROOF FRAMING PLAN
15	UPPER LATERAL BRACING PLAN
16	EAST TRUSS PLAN AND ELEVATION
17	WEST TRUSS PLAN AND ELEVATION
18	FLOOR FRAMING PLAN
19 - 23	ROADWAY CROSS SECTIONS 1-5
24 - 27	CHANNEL CROSS SECTIONS 1-4

STANDARDS LIST

E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	04-07-2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-15	SILT FENCE	04-07-2020

DETAIL SHEETS

Placeholder for hydraulic report diagrams and tables.

Placeholder for hydraulic report diagrams and tables.

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

1. DESIGN LIVE LOAD	H-12
2. FUTURE PAVEMENT	dp: ---
3. DESIGN SPAN	L: 119.50 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAND	fy: ---
6. PRESTRESSED CONCRETE STRENGTH	f'c: ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'cr: ---
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f'c: ---
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f'c: 3.5 KSI
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'c: ---
11. CONCRETE, CLASS C	f'c: 3.0 KSI
12. REINFORCING STEEL	fy: 60 KSI
13. STRUCTURAL STEEL AASHTO M270	fy: ---
14. NOMINAL BEARING RESISTANCE OF SOIL	qn: ---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
16. NOMINAL BEARING RESISTANCE OF ROCK	qn: ---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
18. PILE RESISTANCE FACTOR	φ: ---
19. LATERAL PILE DEFLECTION	Δ: ---
20. BASIC WIND SPEED	V3s: ---
21. MINIMUM GROUND SNOWLOAD	pg: ---
22. SEISMIC DATA	PGA: --- Ss: --- S1: ---
23.	---
24.	---
25.	---
26.	---

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2024	720	110	62	8.1	60
2044	780	120	62	10.4	80

20 year ESAL for flexible pavement from 2024 to 2044 : 156000
40 year ESAL for flexible pavement from 2024 to 2064 : 320000
Design Speed : 35 mph

AS BUILT "REBAR" DETAIL

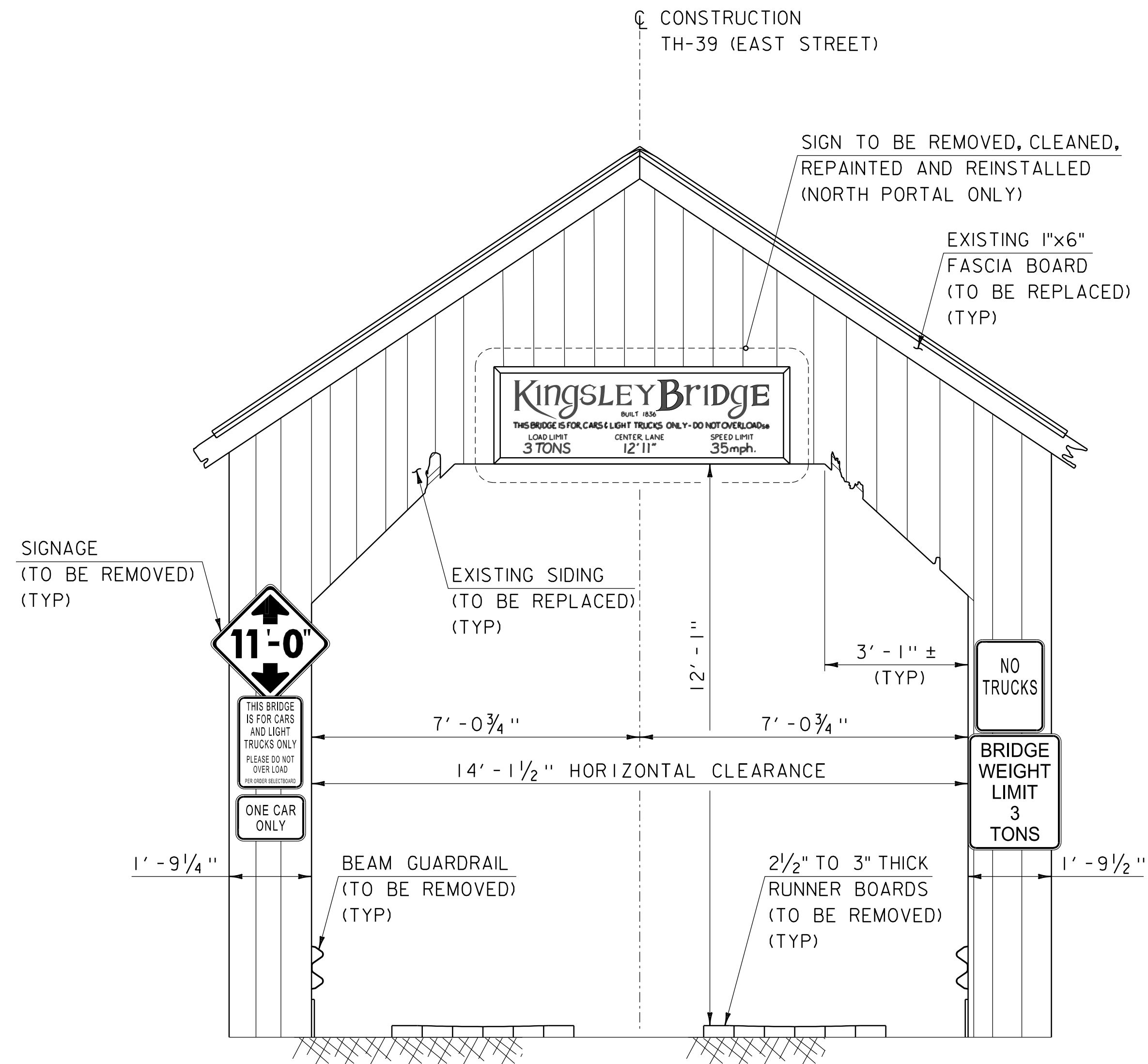
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:



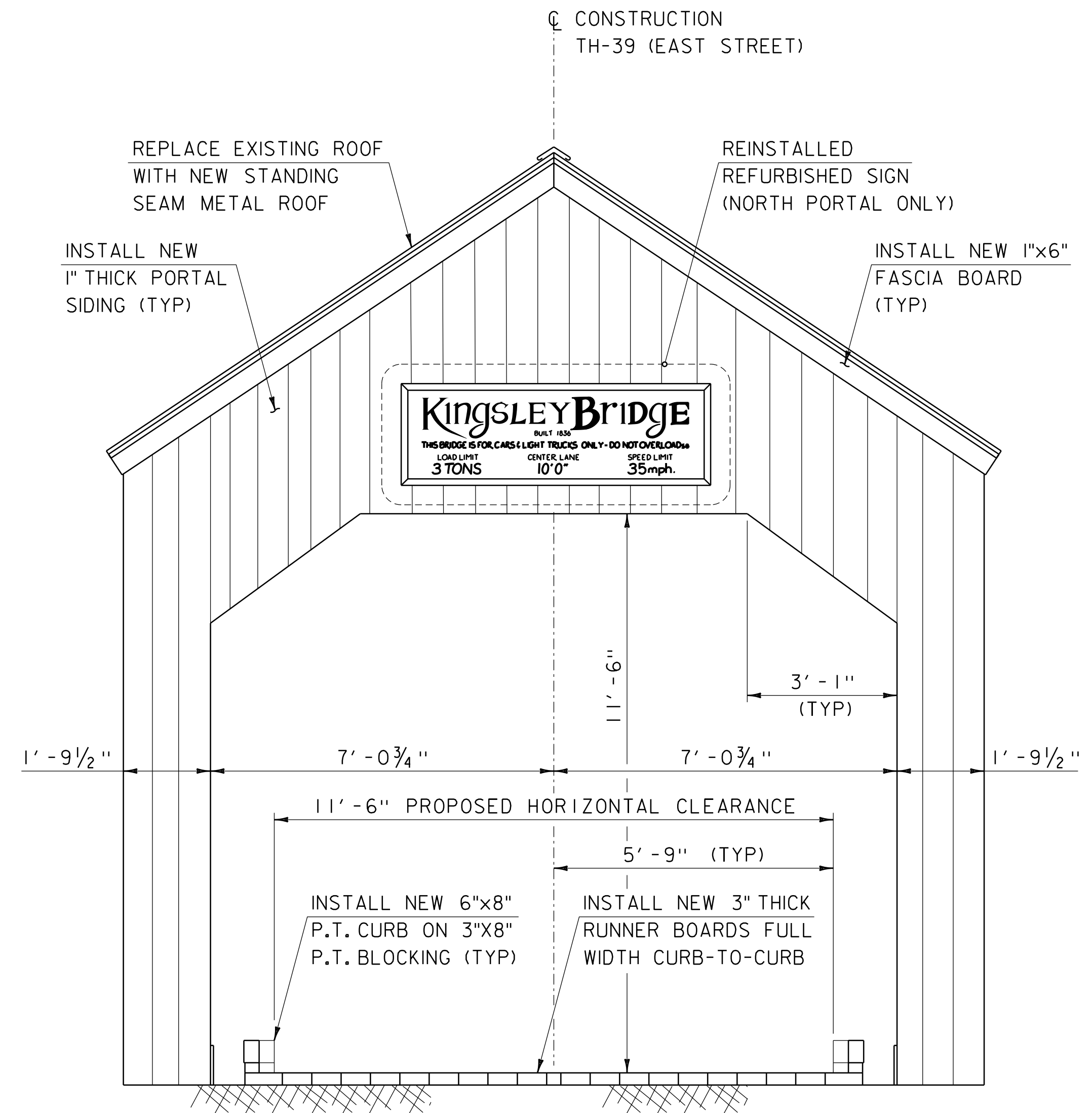
PROJECT NAME: CLARENDON
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228p1.dgn
PROJECT LEADER: J.BICJA
DESIGNED BY: J.RIPLEY
PRELIMINARY INFORMATION SHEET

PLOT DATE: 1/12/2022
DRAWN BY: P.DUSTIN
CHECKED BY: J.BICJA
SHEET 2 OF 27



EXISTING PORTAL ELEVATION
 (SOUTH PORTAL SHOWN, NORTH PORTAL SIMILAR)
 SCALE: 1/2" = 1'-0"



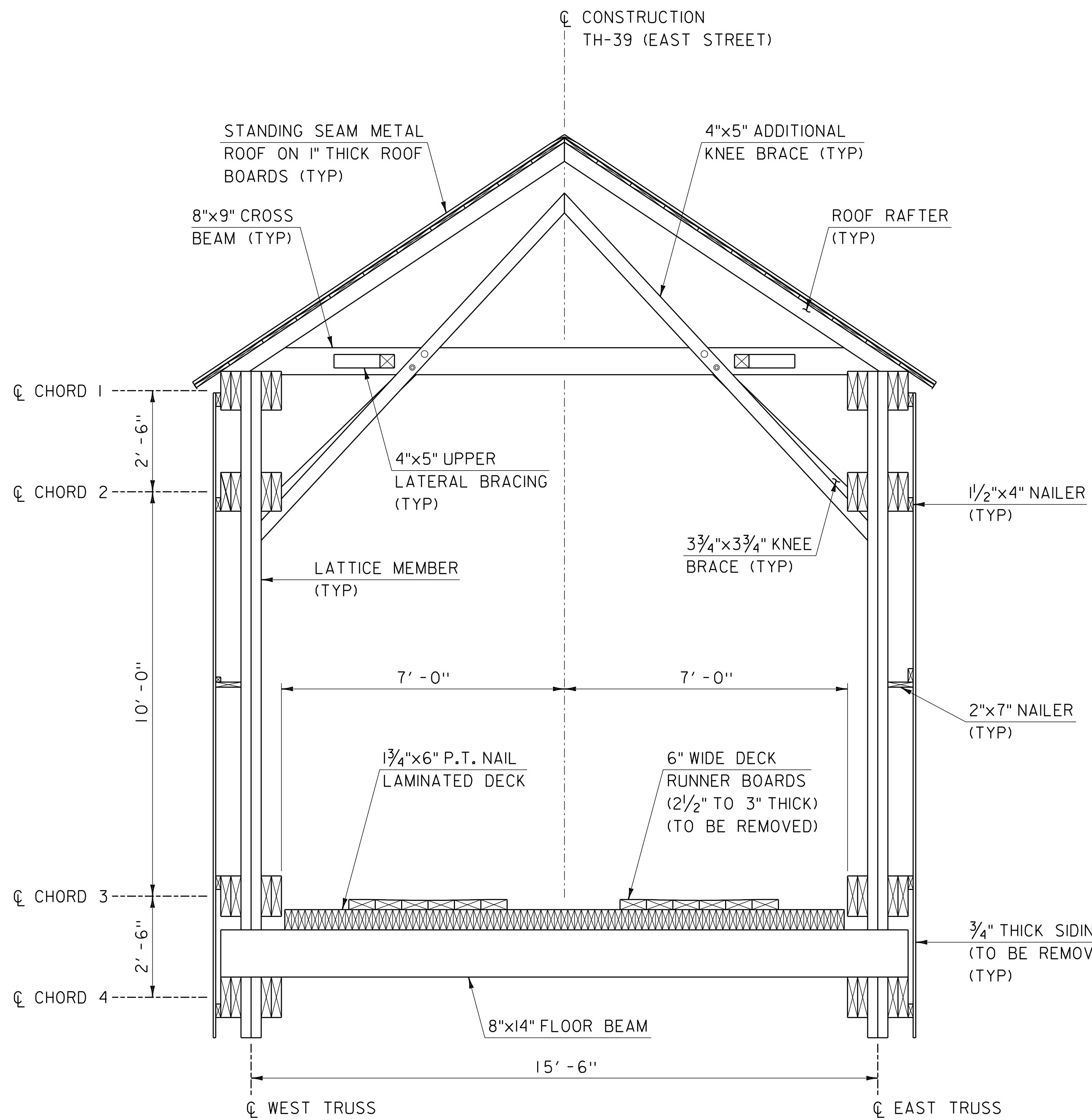
PROPOSED PORTAL ELEVATION
 (SOUTH PORTAL SHOWN, NORTH PORTAL SIMILAR)
 SCALE: 1/2" = 1'-0"



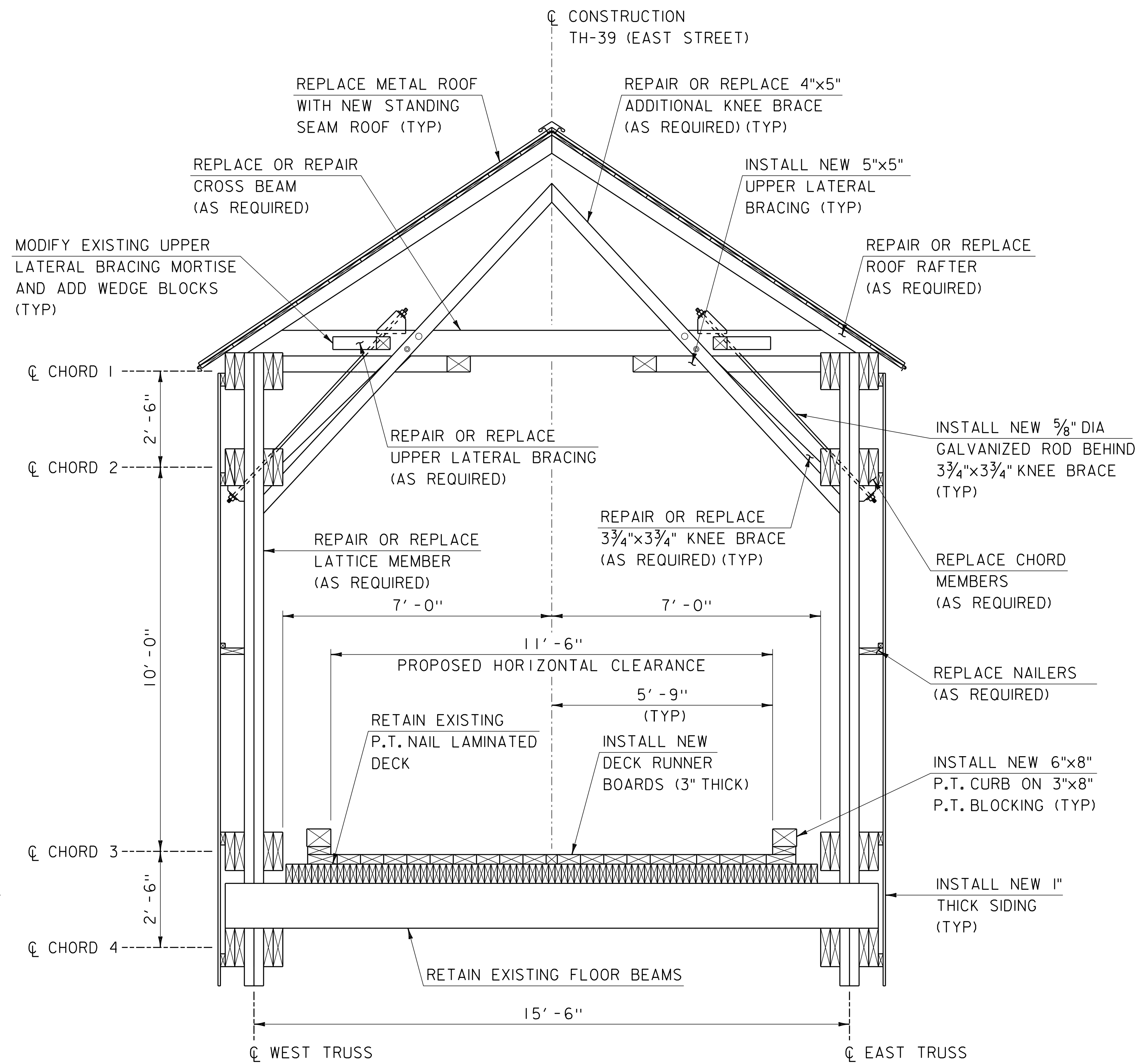
PROJECT NAME: CLARENDON
 PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228supl.dgn
 PROJECT LEADER: J.BICJA
 DESIGNED BY: J.RIPLEY
 EXISTING AND PROPOSED PORTAL ELEVATIONS SHEET 3 OF 27

PLOT DATE: 1/12/2022
 DRAWN BY: P.DUSTIN
 CHECKED BY: J.BICJA



EXISTING BRIDGE SECTION
SCALE: 1/2" = 1'-0"



PROPOSED BRIDGE SECTION
SCALE: 1/2" = 1'-0"

LEGEND

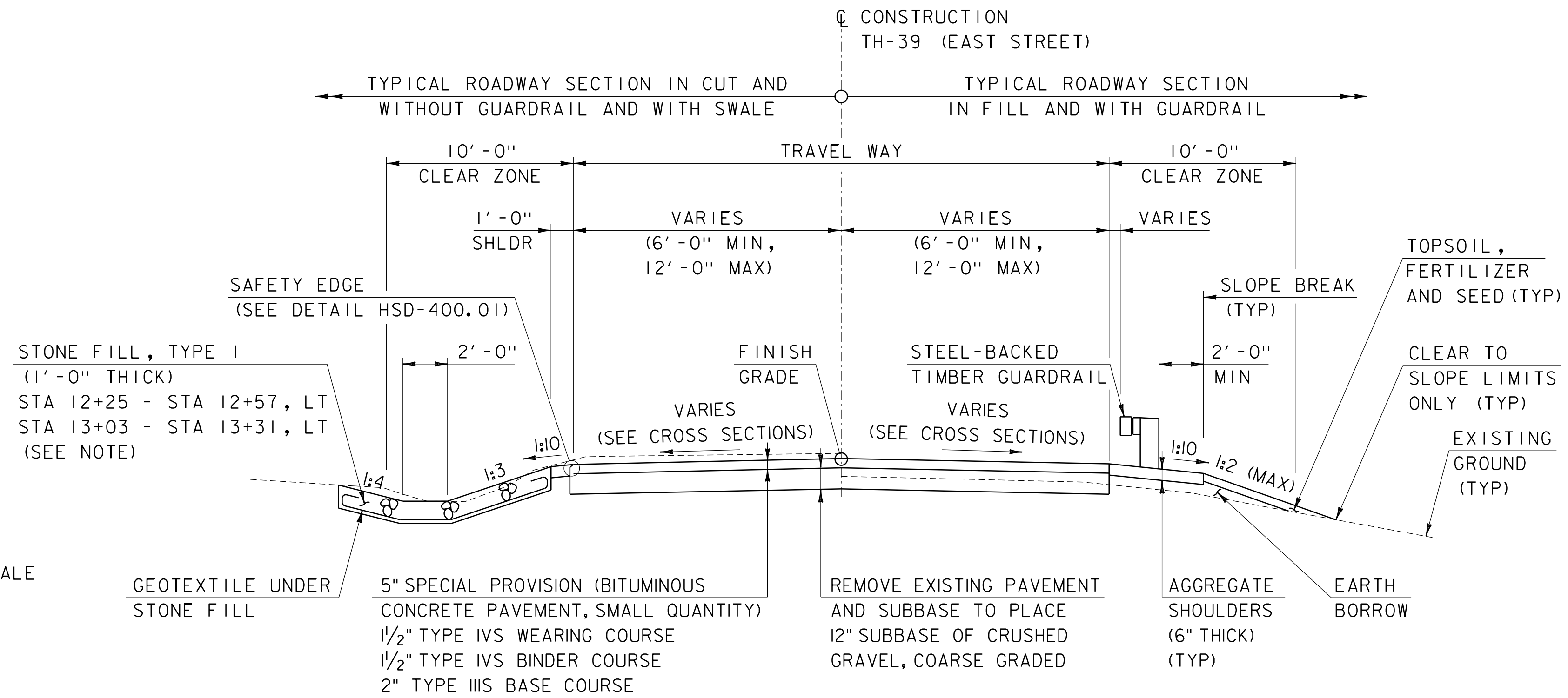
P. T. PRESSURE TREATED

PROJECT NAME: CLARENDON
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228sup2.dgn
PROJECT LEADER: J.BICJA
DESIGNED BY: J.RIPLEY
EXISTING AND PROPOSED BRIDGE SECTIONS

PLOT DATE: 1/12/2022
DRAWN BY: P.DUSTIN
CHECKED BY: J.BICJA
SHEET 4 OF 27

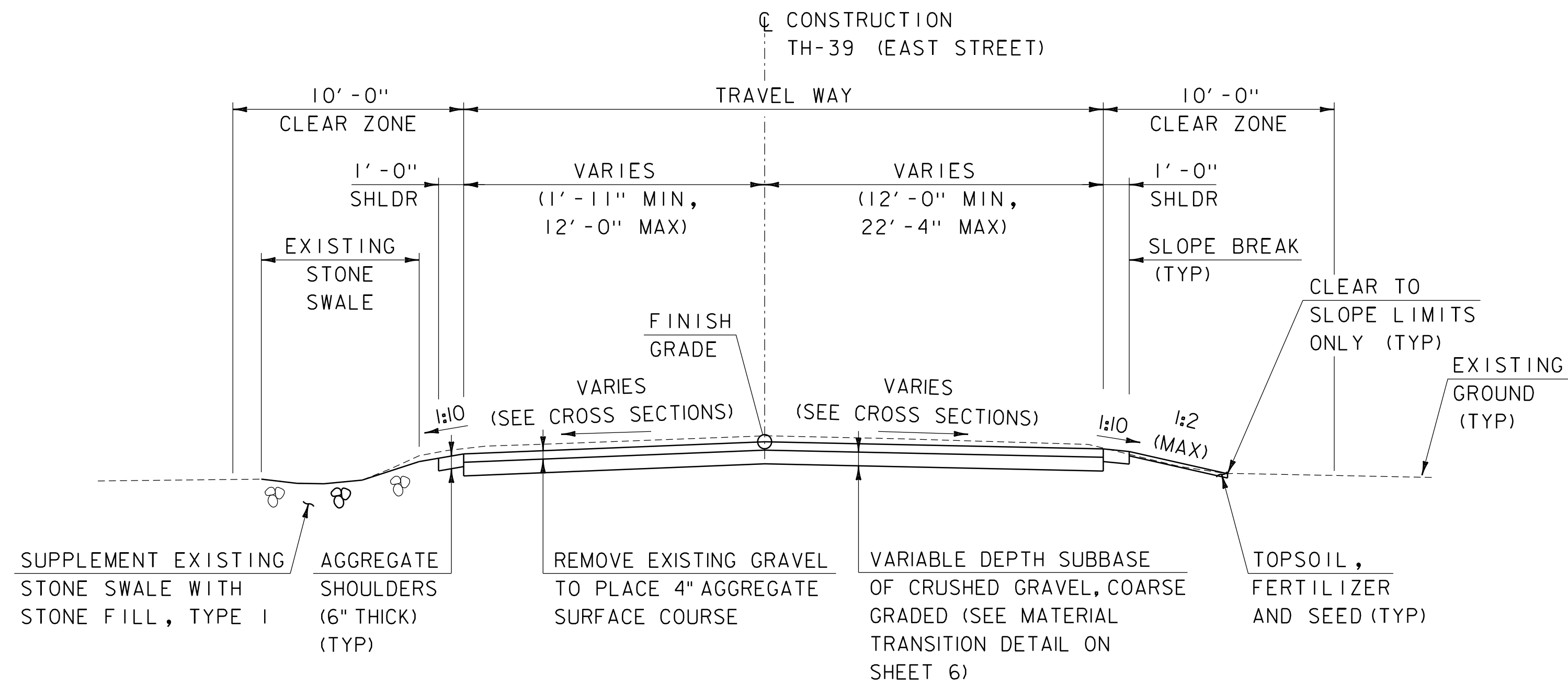




NOTE
SUPPLEMENT EXISTING STONE SWALE WITH STONE FILL, TYPE I FROM STA 11+75 - STA 12+25, LT

TYPICAL PAVED ROADWAY SECTION

STA 12+00.00 - STA 13+40.18
STA 14+59.68 - STA 15+60.40
SCALE: 1/4" = 1'-0"



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

TYPICAL UNPAVED ROADWAY SECTION

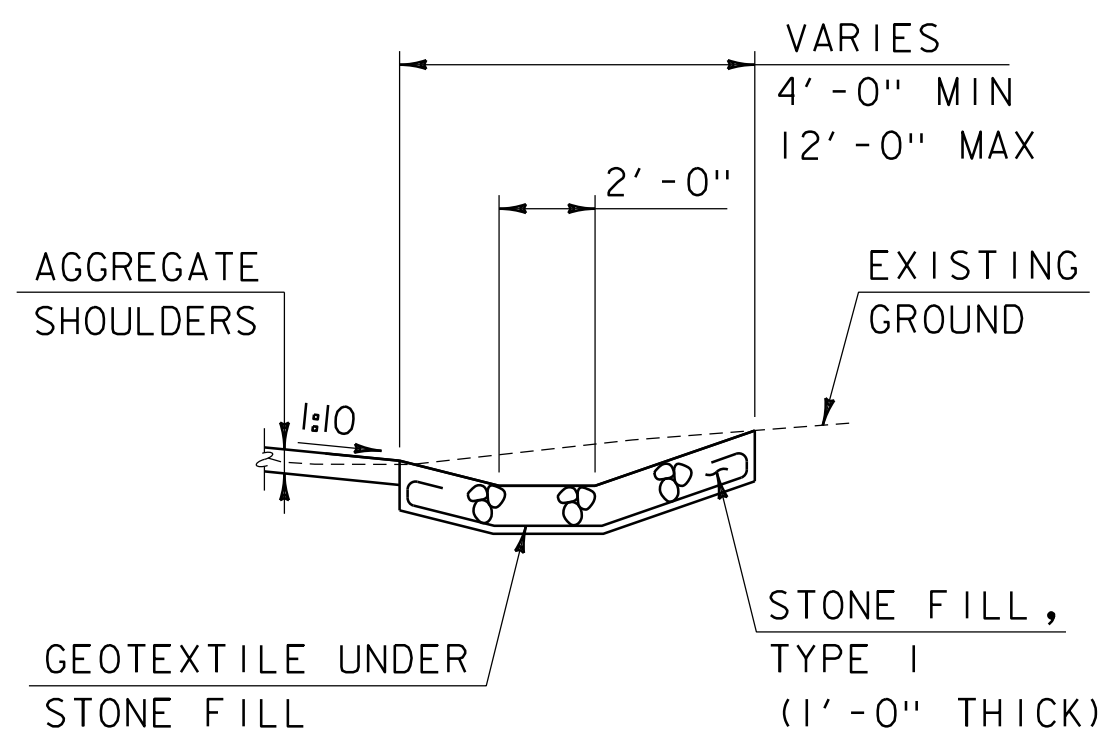
STA 11+75.00 - STA 12+00.00
SCALE: 1/4" = 1'-0"



PROJECT NAME: CLARENDON
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228+yp.dgn
PROJECT LEADER: J.BICJA
DESIGNED BY: J.RIPLEY
TYPICAL SECTIONS I

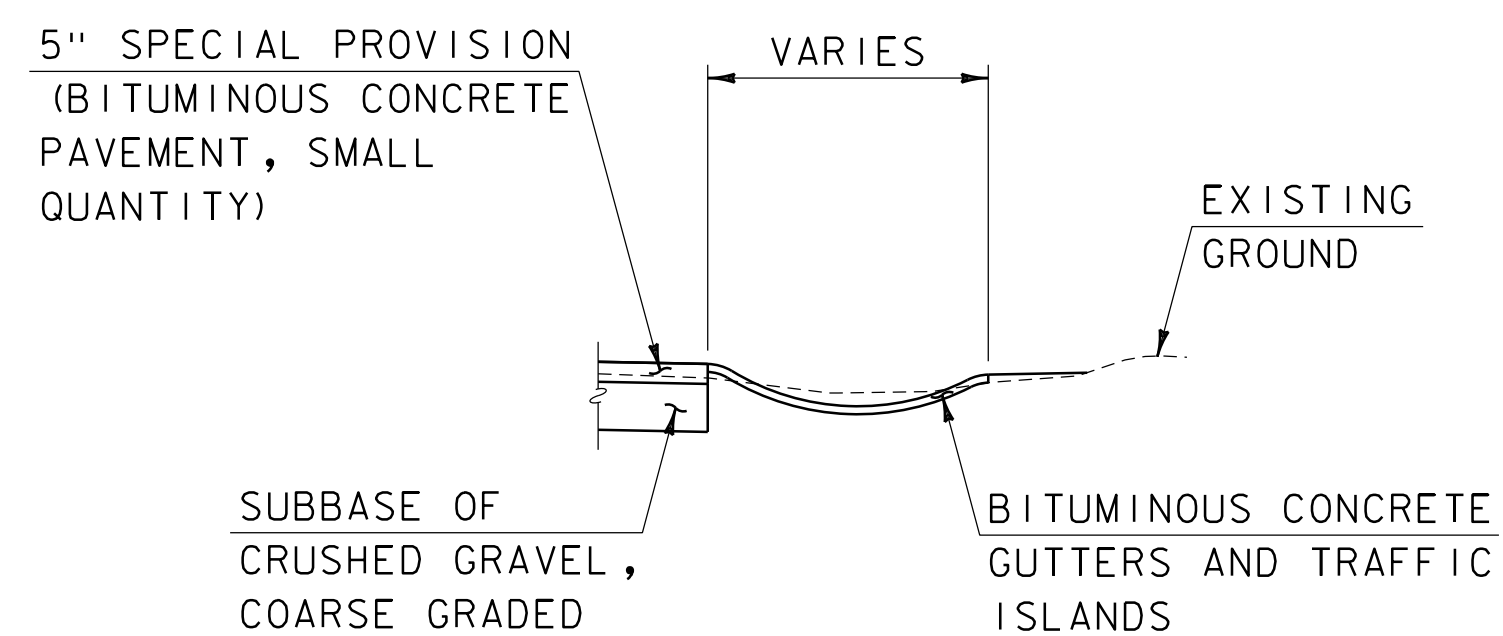
PLOT DATE: 1/12/2022
DRAWN BY: P.DUSTIN
CHECKED BY: J.BICJA
SHEET 5 OF 27



NOTE
SEE CROSS SECTIONS FOR WIDTH AND ELEVATIONS.
SLOPES VARY TO MATCH INTO EXISTING GROUND.

TYPICAL STONE LINED SWALE SECTION

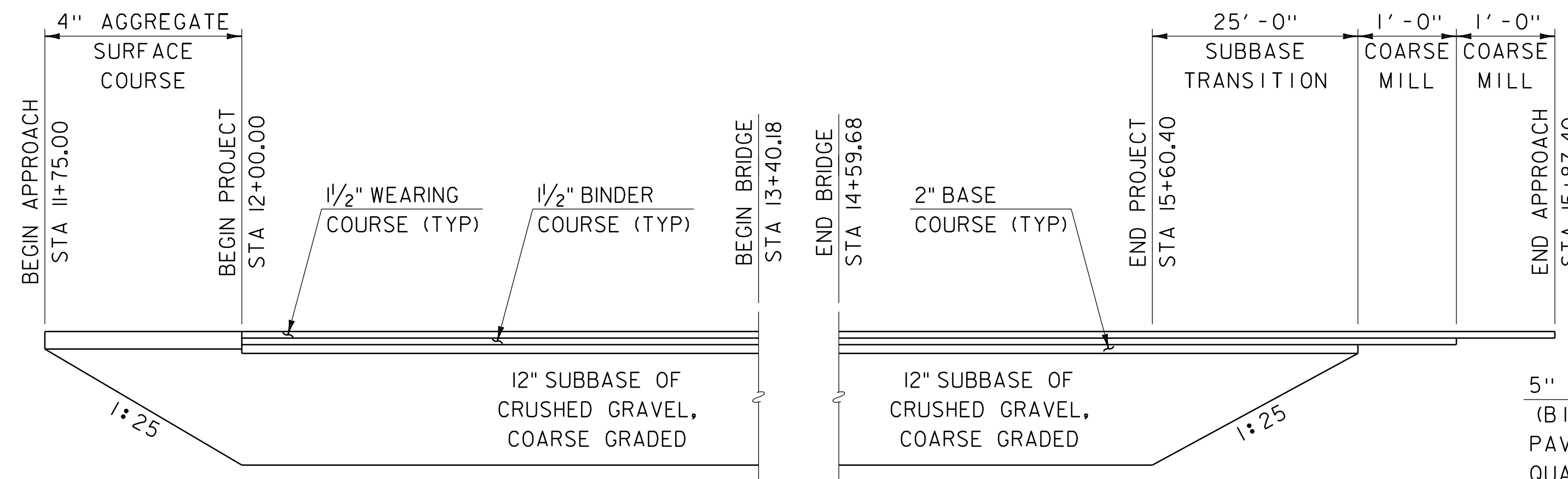
STA 12+33 - STA 13+50, RT
STA 15+44 - STA 15+93, RT
SCALE: 1/4" = 1'-0"



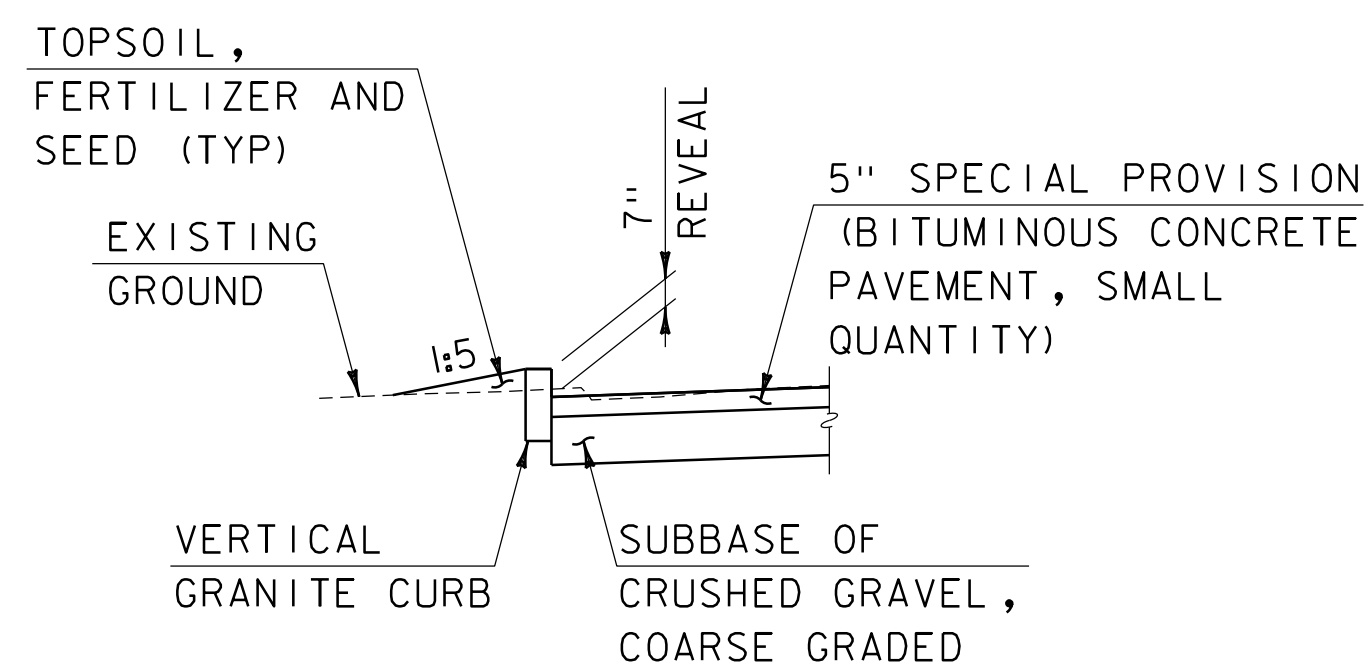
NOTE
SEE CROSS SECTIONS FOR WIDTH AND ELEVATIONS.

TYPICAL PAVED SWALE SECTION

STA 15+07 - STA 15+44, RT
SCALE: 1/4" = 1'-0"

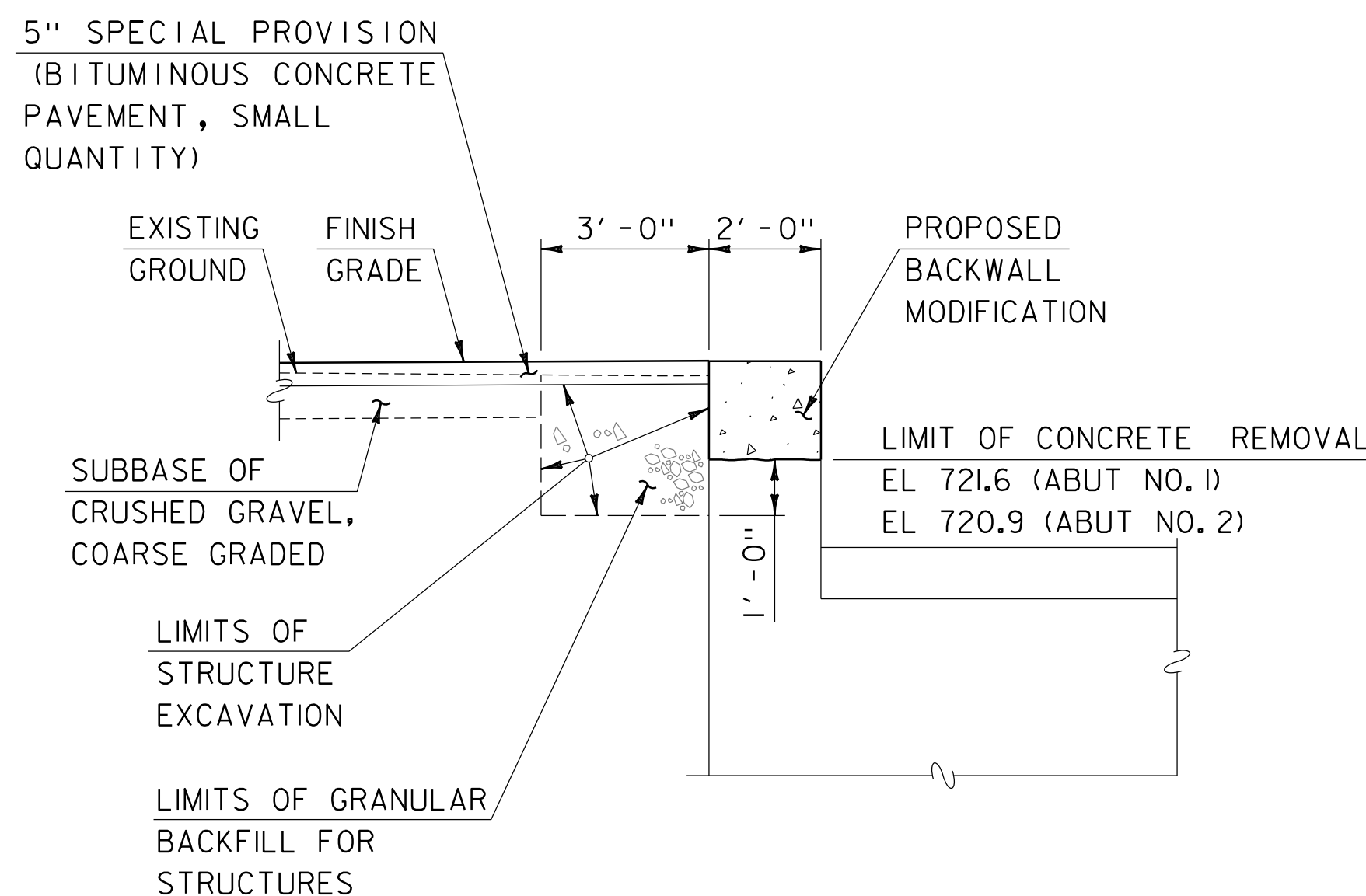


TH-39 (EAST STREET) MATERIAL TRANSITION DETAIL
NOT TO SCALE

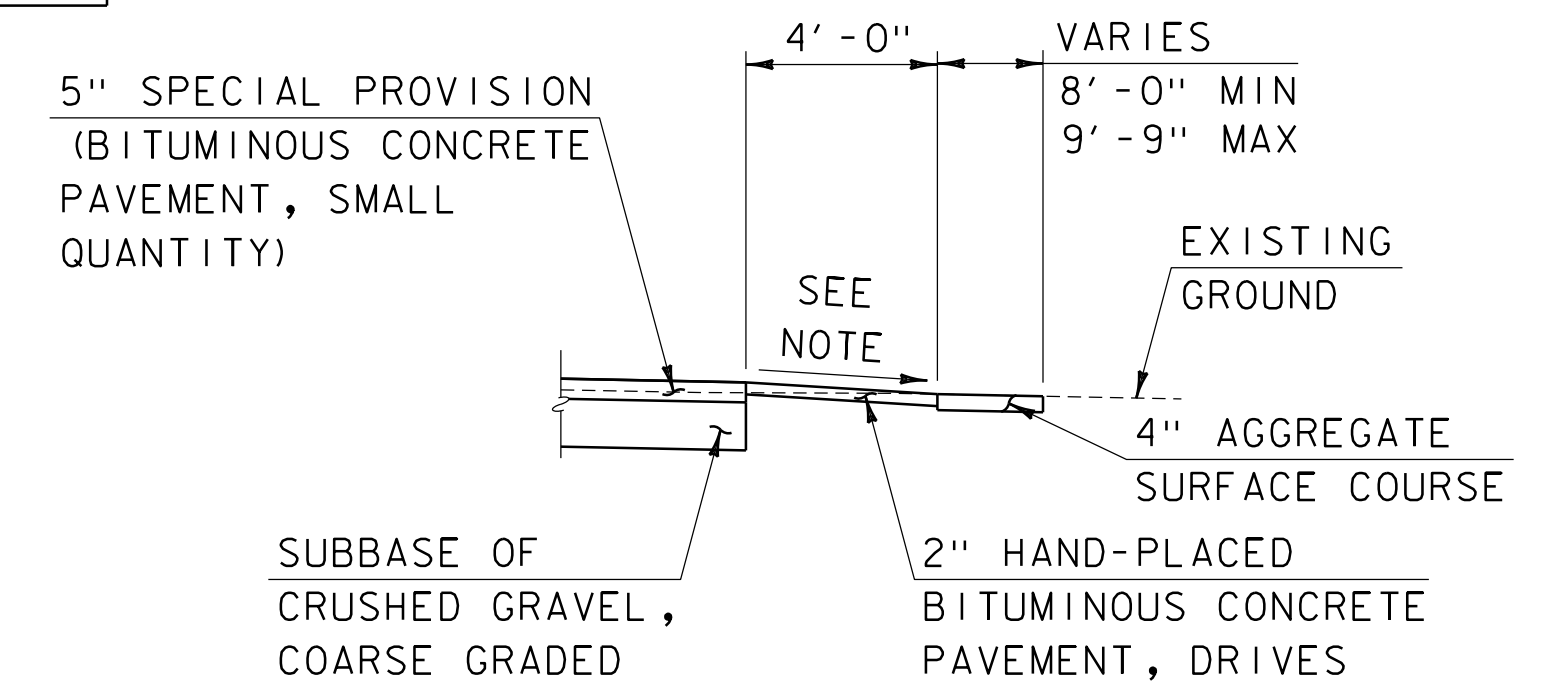


TYPICAL CURB SECTION

STA 15+28.05 - STA 15+49.38, LT
STA 15+51.64 - STA 15+76.29, LT
SCALE: 1/4" = 1'-0"



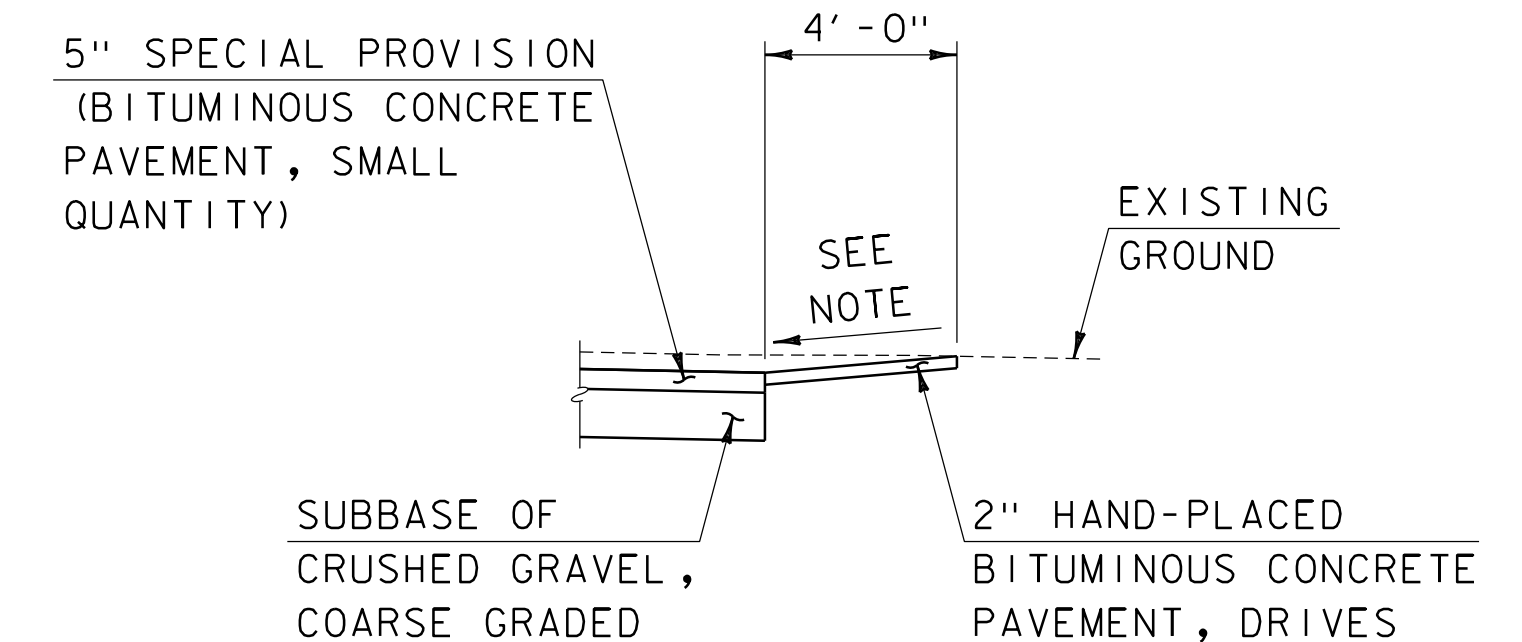
TYPICAL EARTHWORK SECTION
ABUTMENT NO. 1 SHOWN, ABUTMENT NO. 2 SIMILAR
NOT TO SCALE



NOTE
SLOPE VARIES (SEE CROSS SECTIONS).

PAVED DRIVE SECTION (IN FILL)

STA 12+55 - STA 12+87, LT
STA 14+85 - STA 15+15, RT
SCALE: 1/4" = 1'-0"



NOTE
SLOPE VARIES (SEE CROSS SECTIONS).

PAVED DRIVE SECTION (IN CUT)

STA 12+04 - STA 12+38, RT
SCALE: 1/4" = 1'-0"



PROJECT NAME: CLARENDON
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228+yp.dgn
PROJECT LEADER: J.BICJA
DESIGNED BY: J.RIPLEY
TYPICAL SECTIONS 2

PLOT DATE: 1/12/2022
DRAWN BY: P.DUSTIN
CHECKED BY: J.BICJA
SHEET 6 OF 27

GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY 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. SYMBOLOLOGY 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 SYMBOLOLOGY

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 SYMBOLOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOLOGY

— — — 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 SYMBOLOLOGY**

**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 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 SYMBOLOLOGY**

**EPSC MEASURES**

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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOLOGY

**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 SYMBOLOLOGY**

**EXISTING FEATURES**

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
× — × — × — × —	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: CLARENDON  
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228leg.dgn PLOT DATE: 1/12/2022  
PROJECT LEADER: J.BICJA DRAWN BY: P.DUSTIN  
DESIGNED BY: J.RIPLEY CHECKED BY: J.BICJA  
CONVENTIONAL SYMBOLOLOGY LEGEND SHEET 7 OF 27



PRIMARY CONTROL

HVCTRL #1

GATE 12 "2014"

NORTH = 375483.2746  
 EAST = 1519510.5599  
 ELEV. = 781.1960

CLARENDON, VT.  
 THE MARK IS SET 2 CM BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT AND IS ABOUT 30 M SOUTH OF THE DRIVE LEADING TO VERMONT WOOD PELLET AND THE STAFFORD DRIVER TRAINING SCHOOL. IT IS 8.3 M SOUTHEAST OF THE CENTERLINE OF VT ROUTE 7B, 6.9 M SOUTHWEST OF THE CENTERLINE OF THE DRIVE FOR GATE 12 ACCESS TO THE RUTLAND COUNTY AIRPORT, 4.3 M SOUTHWEST OF THE SOUTHWEST EDGE OF THE OPENING OF GATE 12, AND 46.9 M NORTHEAST OF THE WEST CORNER OF THE FENCE ENCLOSURE.

HVCTRL #2

ACC CEMETERY "2014"

NORTH = 374640.7435  
 EAST = 1522841.3540  
 ELEV. = 815.5560

CLARENDON, VT.  
 THE MARK IS SET 5 CM BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT IN THE LAWN JUST WEST OF THE EAST CLARENDON COMMUNITY CEMETERY. IT IS 9.6 M EAST OF AND 1.0 M HIGHER THAN THE CENTERLINE OF AIRPORT ROAD, 6.9 M WEST OF THE CEMETERY FENCE, 22.2 M SOUTH OF THE CENTERLINE OF THE MAIN ENTRANCE DRIVE TO THE CEMETERY, 17.6 M NORTHWEST OF A 40 CM CEDAR AND 28.7 M NORTH OF THE CENTERLINE OF THE SOUTH ENTRANCE DRIVE TO THE CEMETERY.

SECONDARY CONTROL

HVCTRL #3 REBAR W/CAP

NORTH = 374264.5477  
 EAST = 1523030.2259  
 ELEV. = 799.5010

NOT TIED

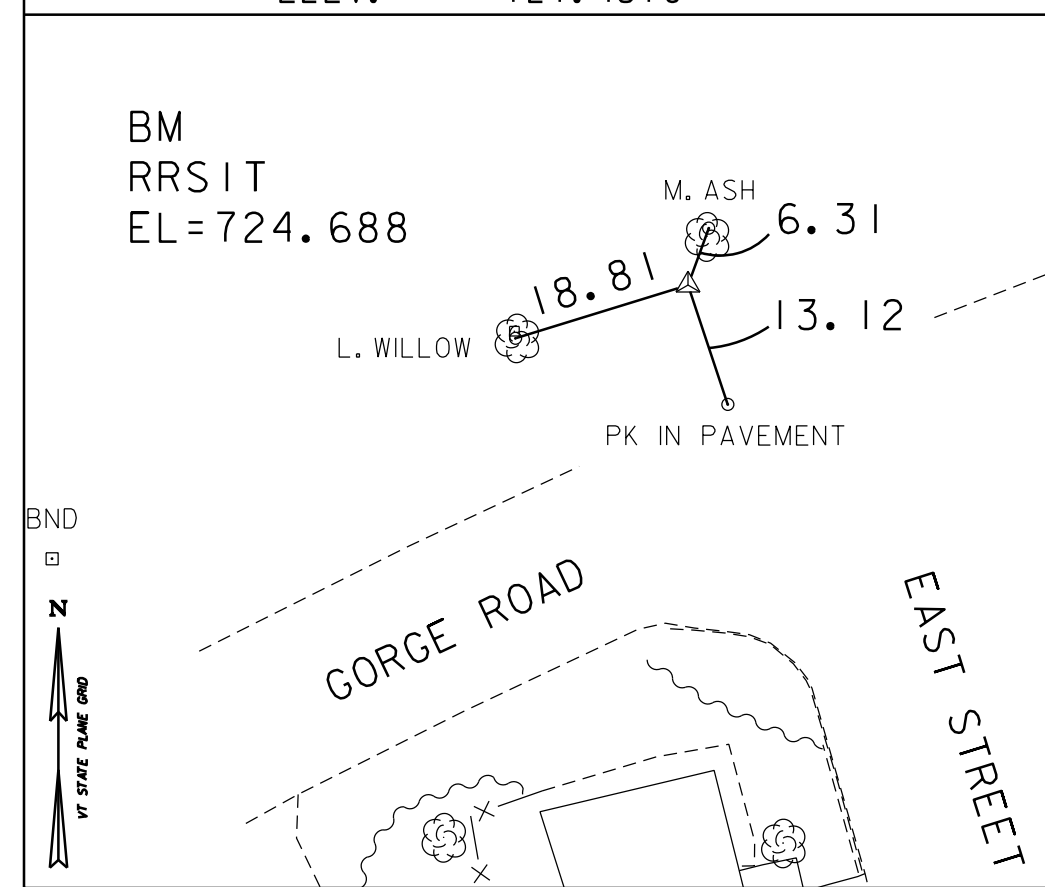
HVCTRL #4 REBAR W/CAP

NORTH = 373788.1433  
 EAST = 1523896.6212  
 ELEV. = 749.1240

NOT TIED

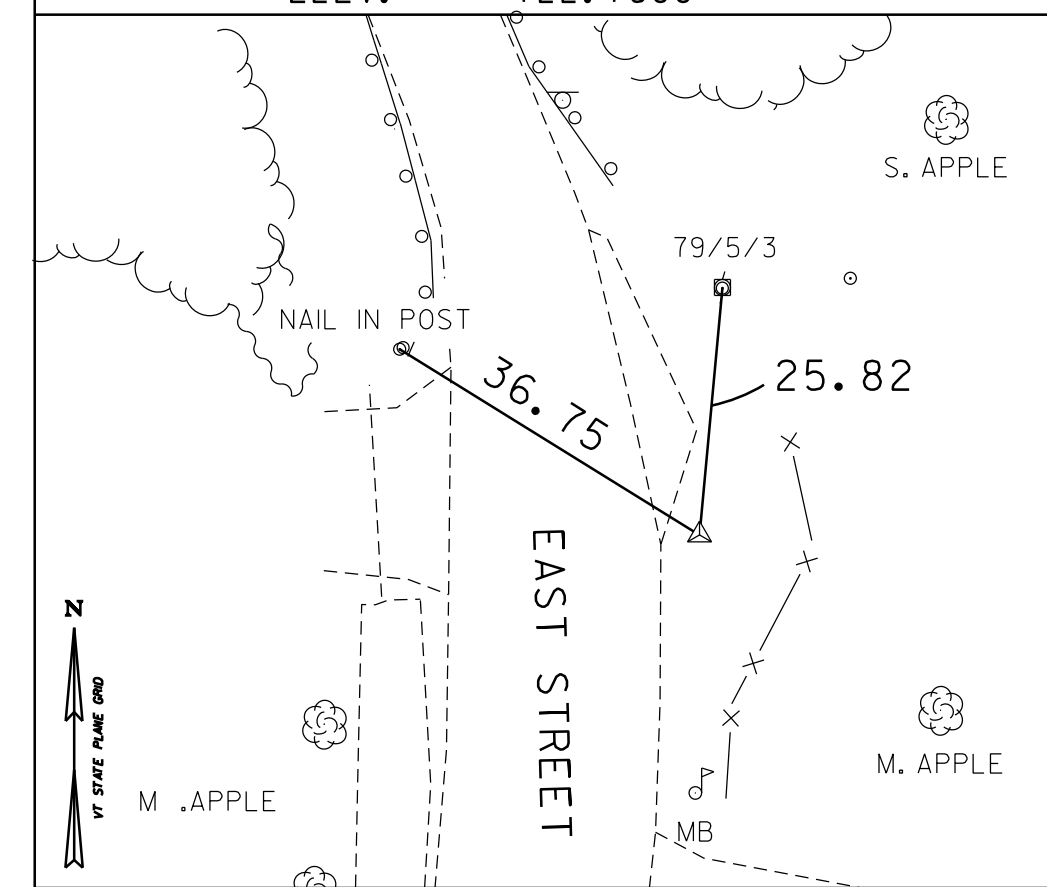
HVCTRL #5 REBAR W/CAP

NORTH = 373651.5946  
 EAST = 1523352.4015  
 ELEV. = 721.4370



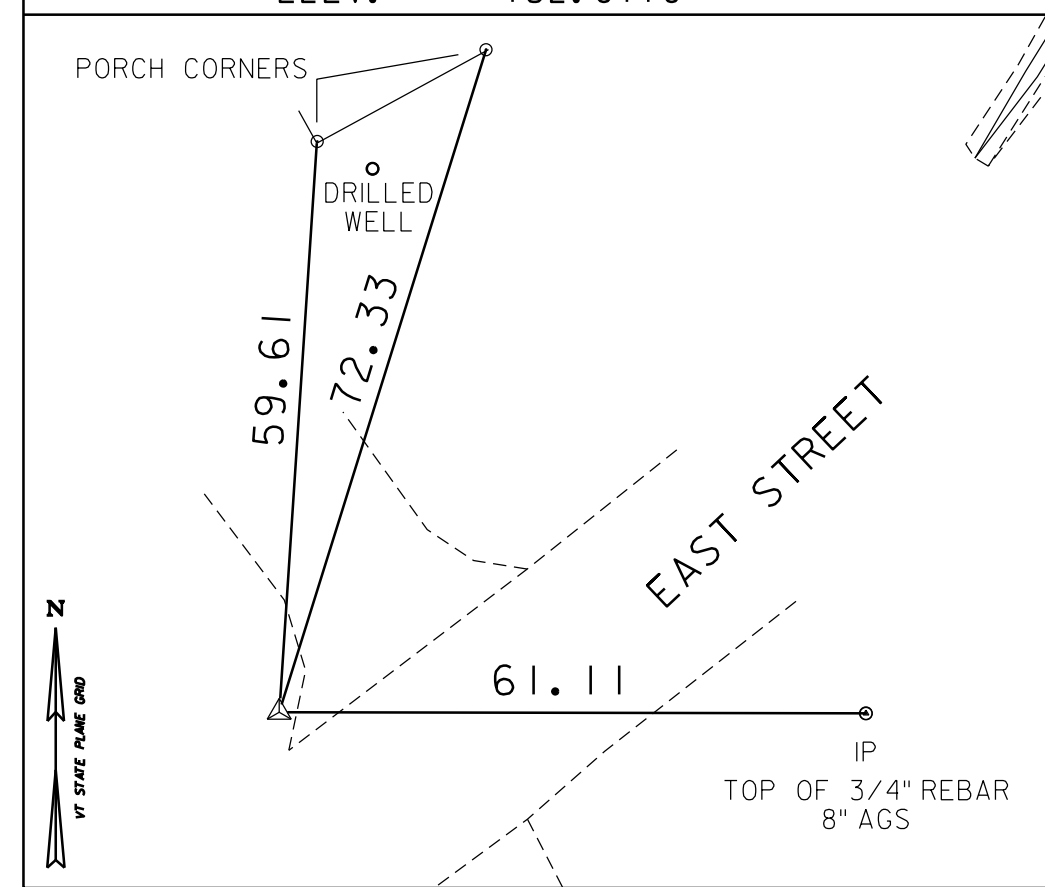
HVCTRL #6 REBAR W/CAP

NORTH = 373324.7787  
 EAST = 1523491.9121  
 ELEV. = 722.7600



HVCTRL #7 REBAR W/CAP

NORTH = 373114.1587  
 EAST = 1523352.1881  
 ELEV. = 732.0170



*TRAVERSE COMPLETED 9/12/2019 BY G. HITCHCOCK & B. HORBAL

ALIGNMENT TIES

NORTH =  
 EAST =  
 ELEV. =

NORTH =  
 EAST =  
 ELEV. =

NORTH =  
 EAST =  
 ELEV. =

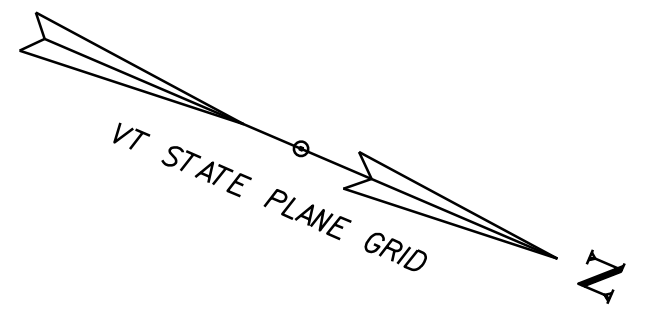
NORTH =  
 EAST =  
 ELEV. =

NORTH =  
 EAST =  
 ELEV. =

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (11)
ADJUSTMENT	COMPASS

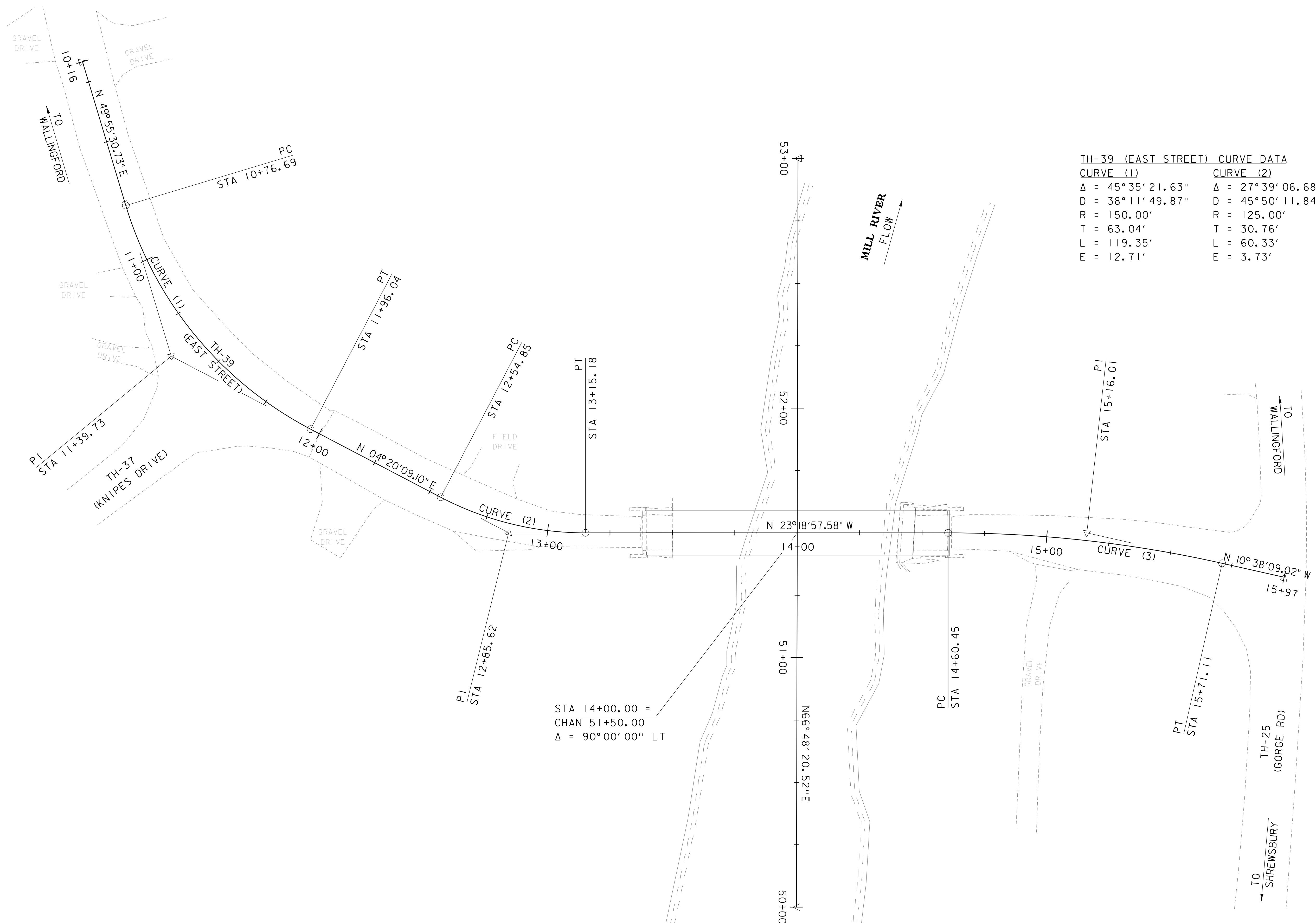
PROJECT NAME:	CLARENDON	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	DRAWN BY:	C.CYR
FILE NAME:	z19j228+1.dgn	CHECKED BY:	G.HITCHCOCK
PROJECT LEADER:	D.BEARD	TIE SHEET	8 OF 27
DESIGNED BY:	VTRANS		



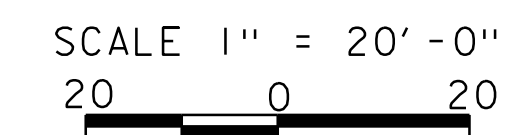


**TH-39 (EAST STREET) CURVE DATA**

CURVE (1)	CURVE (2)	CURVE (3)
$\Delta = 45^{\circ}35'21.63''$	$\Delta = 27^{\circ}39'06.68''$	$\Delta = 12^{\circ}40'48.56''$
$D = 38^{\circ}11'49.87''$	$D = 45^{\circ}50'11.84''$	$D = 11^{\circ}27'32.96''$
$R = 150.00'$	$R = 125.00'$	$R = 500.00'$
$T = 63.04'$	$T = 30.76'$	$T = 55.55'$
$L = 119.35'$	$L = 60.33'$	$L = 110.66'$
$E = 12.71'$	$E = 3.73'$	$E = 3.08'$



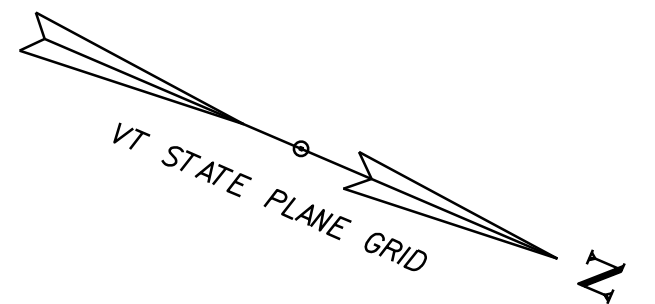
STA 14+00.00 =  
 CHAN 51+50.00  
 $\Delta = 90^{\circ}00'00''$  LT



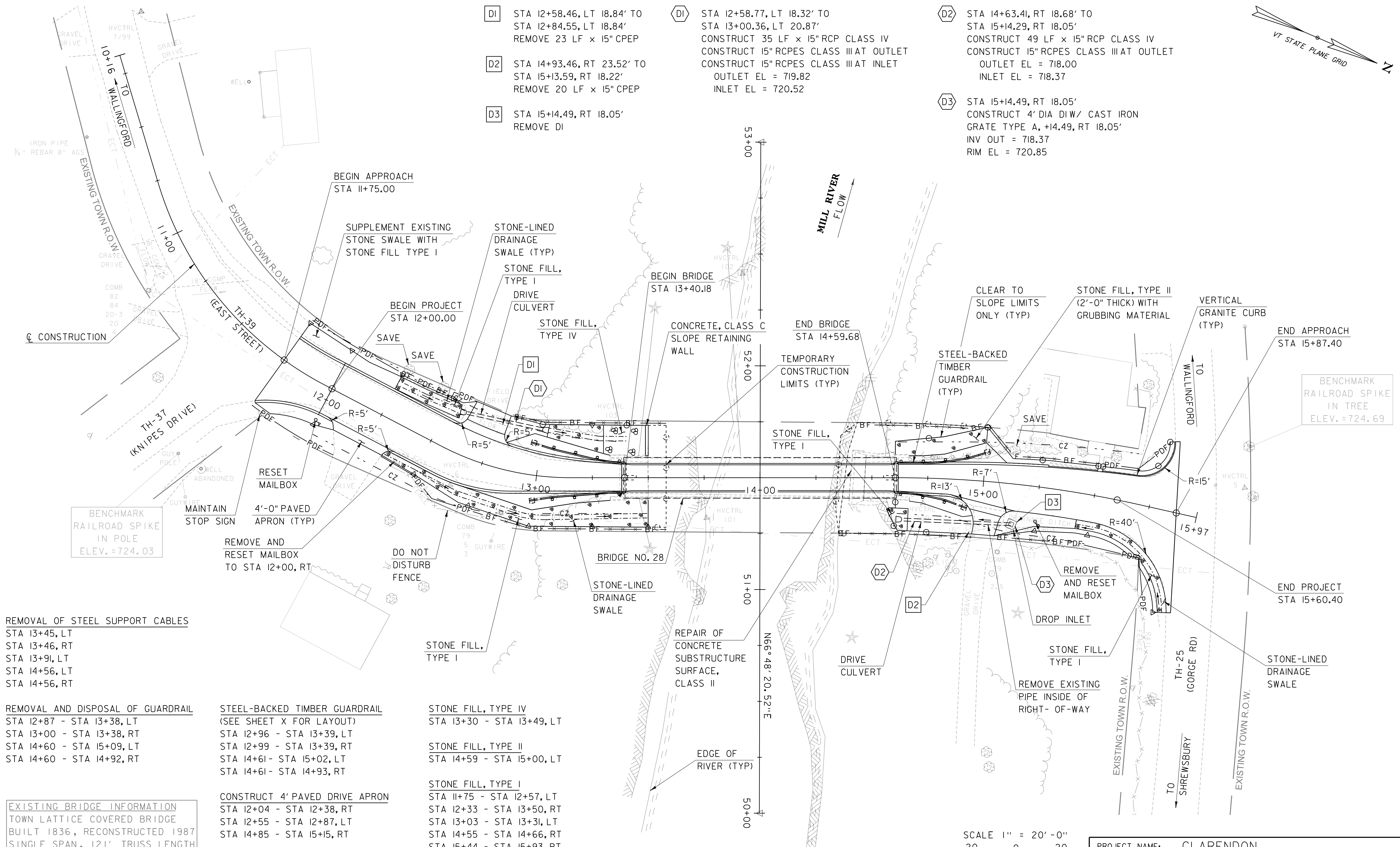
PROJECT NAME: CLARENDON  
 PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228bdr_ali.dgn  
 PROJECT LEADER: J.BICJA  
 DESIGNED BY: P.DUSTIN  
 ALIGNMENT LAYOUT

PLOT DATE: 1/12/2022  
 DRAWN BY: P.DUSTIN  
 CHECKED BY: A.BEAULAC  
 SHEET 9 OF 27



- [D1] STA 12+58.46, LT 18.84' TO STA 12+84.55, LT 18.84' REMOVE 23 LF x 15" CPEP
- [D2] STA 14+93.46, RT 23.52' TO STA 15+13.59, RT 18.22' REMOVE 20 LF x 15" CPEP
- [D3] STA 15+14.49, RT 18.05' REMOVE DI
- [D1] STA 12+58.77, LT 18.32' TO STA 13+00.36, LT 20.87' CONSTRUCT 35 LF x 15" RCP CLASS IV CONSTRUCT 15" RCPES CLASS III AT OUTLET CONSTRUCT 15" RCPES CLASS III AT INLET OUTLET EL = 719.82 INLET EL = 720.52
- [D2] STA 14+63.41, RT 18.68' TO STA 15+14.29, RT 18.05' CONSTRUCT 49 LF x 15" RCP CLASS IV CONSTRUCT 15" RCPES CLASS III AT OUTLET OUTLET EL = 718.00 INLET EL = 718.37
- [D3] STA 15+14.49, RT 18.05' CONSTRUCT 4' DIA DIW/ CAST IRON GRATE TYPE A, +14.49, RT 18.05' INV OUT = 718.37 RIM EL = 720.85



REMOVAL OF STEEL SUPPORT CABLES  
 STA 13+45, LT  
 STA 13+46, RT  
 STA 13+91, LT  
 STA 14+56, LT  
 STA 14+56, RT

REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA 12+87 - STA 13+38, LT  
 STA 13+00 - STA 13+38, RT  
 STA 14+60 - STA 15+09, LT  
 STA 14+60 - STA 14+92, RT

EXISTING BRIDGE INFORMATION  
 TOWN LATTICE COVERED BRIDGE  
 BUILT 1836, RECONSTRUCTED 1987  
 SINGLE SPAN, 121' TRUSS LENGTH  
 13'-3" ROADWAY WIDTH  
 WOODEN DECK WITH RUNNER BOARDS  
 9'-2" MIN VERTICAL CLEAR  
 CONCRETE ABUTMENTS

STEEL-BACKED TIMBER GUARDRAIL  
 (SEE SHEET X FOR LAYOUT)  
 STA 12+96 - STA 13+39, LT  
 STA 12+99 - STA 13+39, RT  
 STA 14+61 - STA 15+02, LT  
 STA 14+61 - STA 14+93, RT

CONSTRUCT 4' PAVED DRIVE APRON  
 STA 12+04 - STA 12+38, RT  
 STA 12+55 - STA 12+87, LT  
 STA 14+85 - STA 15+15, RT

PAVED DRAINAGE SWALE  
 STA 15+07 - STA 15+44, RT

STONE FILL, TYPE IV  
 STA 13+30 - STA 13+49, LT

STONE FILL, TYPE II  
 STA 14+59 - STA 15+00, LT

STONE FILL, TYPE I  
 STA 11+75 - STA 12+57, LT  
 STA 12+33 - STA 13+50, RT  
 STA 13+03 - STA 13+31, LT  
 STA 14+55 - STA 14+66, RT  
 STA 15+44 - STA 15+93, RT

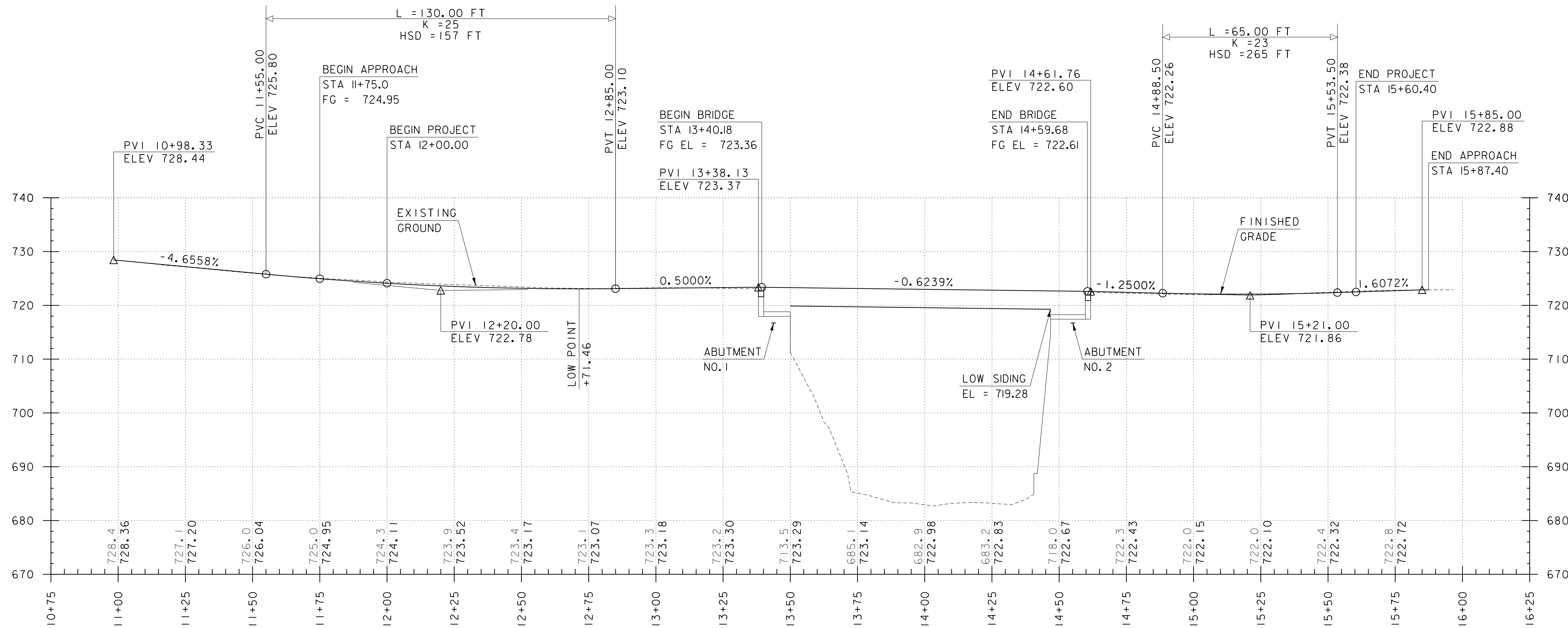
REMOVAL OF CONCRETE CURB  
 STA 15+28.53 - STA 15+49.38, LT  
 STA 15+51.75 - STA 15+71.11, LT

VERTICAL GRANITE CURB  
 STA 15+28.05 - STA 15+49.38, LT  
 STA 15+51.64 - STA 15+76.29, LT

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

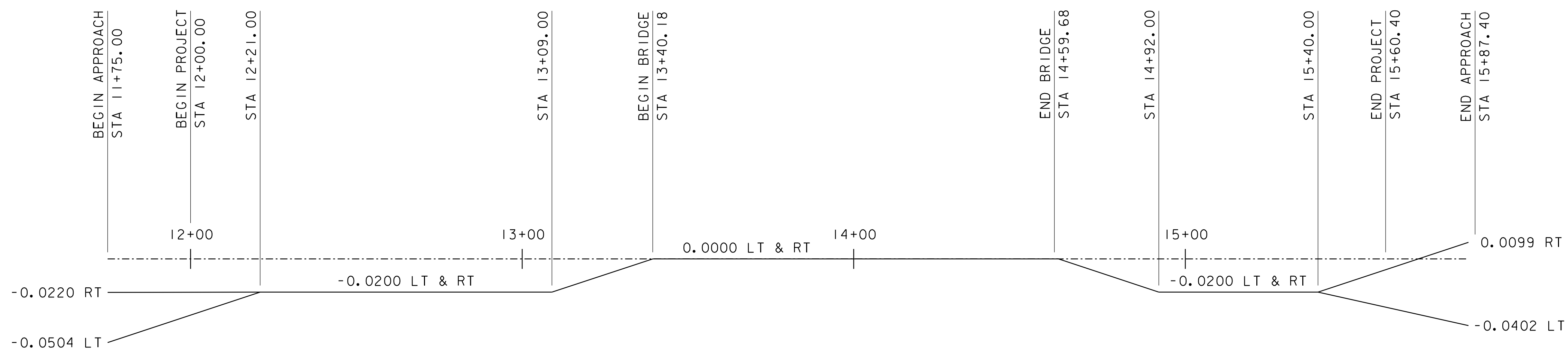


PROJECT NAME:	CLARENDON	FILE NAME:	z19j228bdr_lay.dgn	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	PROJECT LEADER:	J.BICJA	DRAWN BY:	P.DUSTIN
		DESIGNED BY:	P.DUSTIN	CHECKED BY:	A.BEAULAC
		LAYOUT SHEET			SHEET 10 OF 27



**TH-39 (EAST STREET) PROFILE**  
 SCALE: HORIZONTAL 1" = 20'  
 VERTICAL 1" = 10'

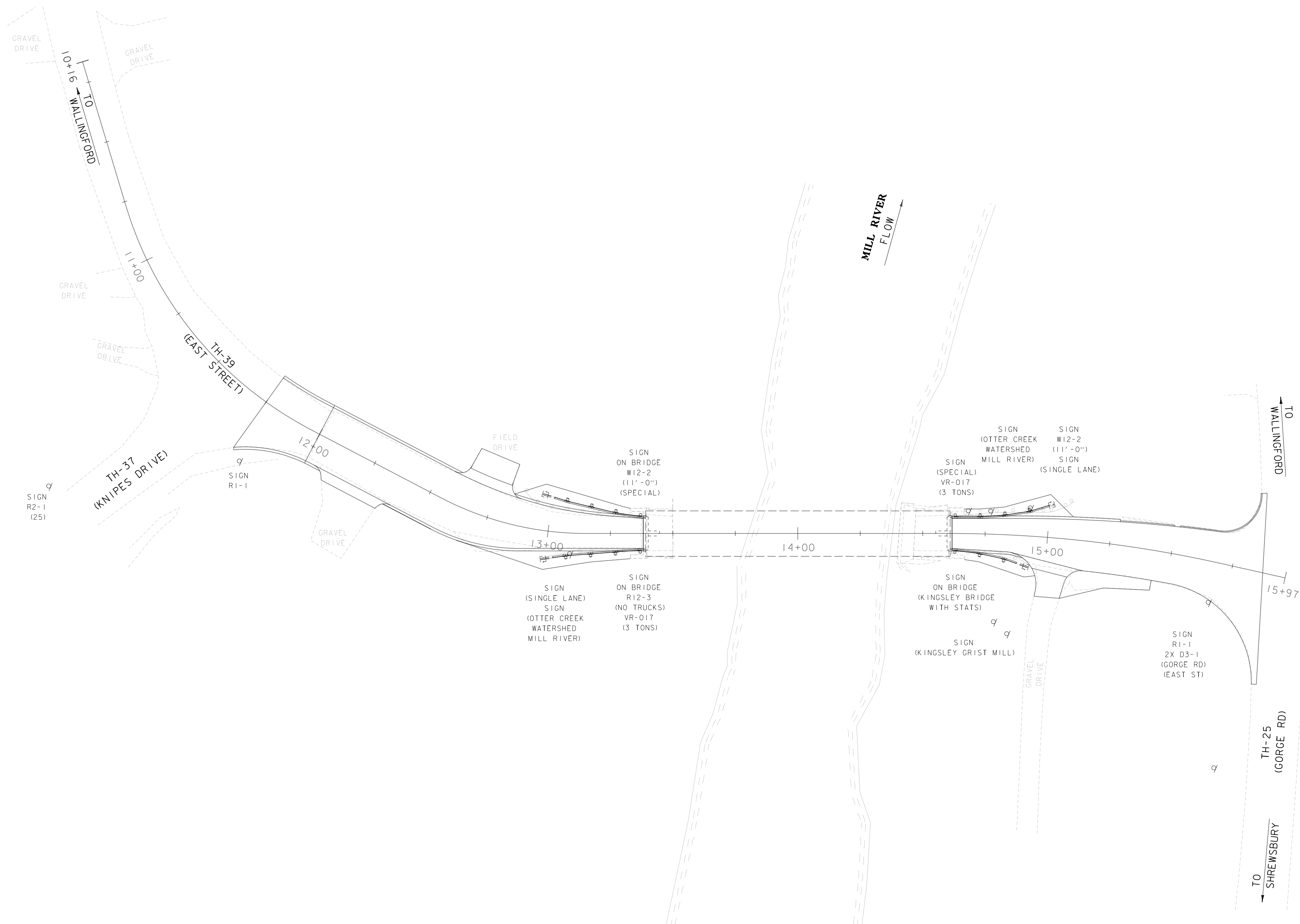
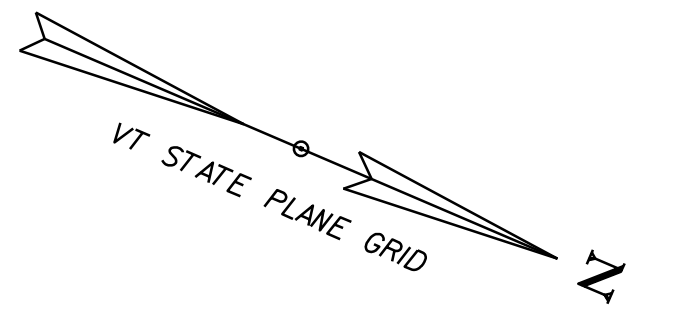
**NOTE**  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG  $\phi$   
 GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG  $\phi$



**TH-39 (EAST STREET) BANKING DIAGRAM**  
 SCALE: HORIZONTAL 1" = 20'-0"  
 VERTICAL 1" = 0.04'/'



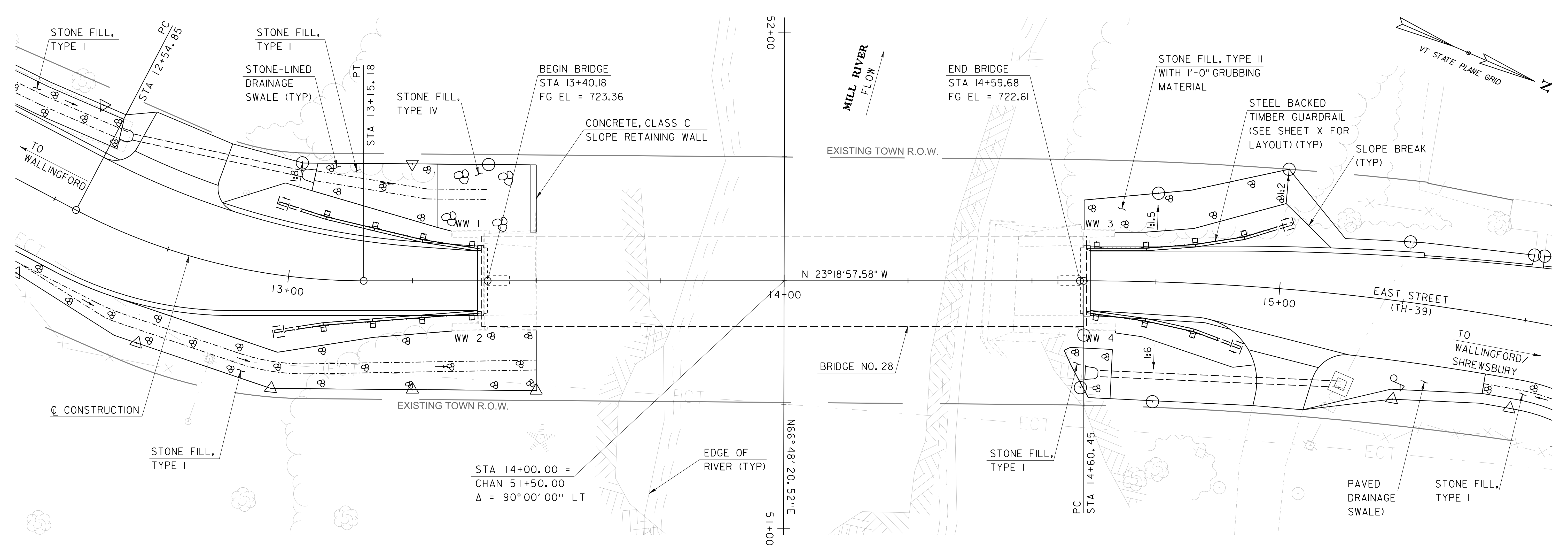
PROJECT NAME:	CLARENDON	FILE NAME:	z19j228pro.dgn	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	PROJECT LEADER:	J.BICJA	DRAWN BY:	P.DUSTIN
		DESIGNED BY:	P.DUSTIN	CHECKED BY:	A.BEAULAC
		PROFILE SHEET		SHEET	11 OF 27



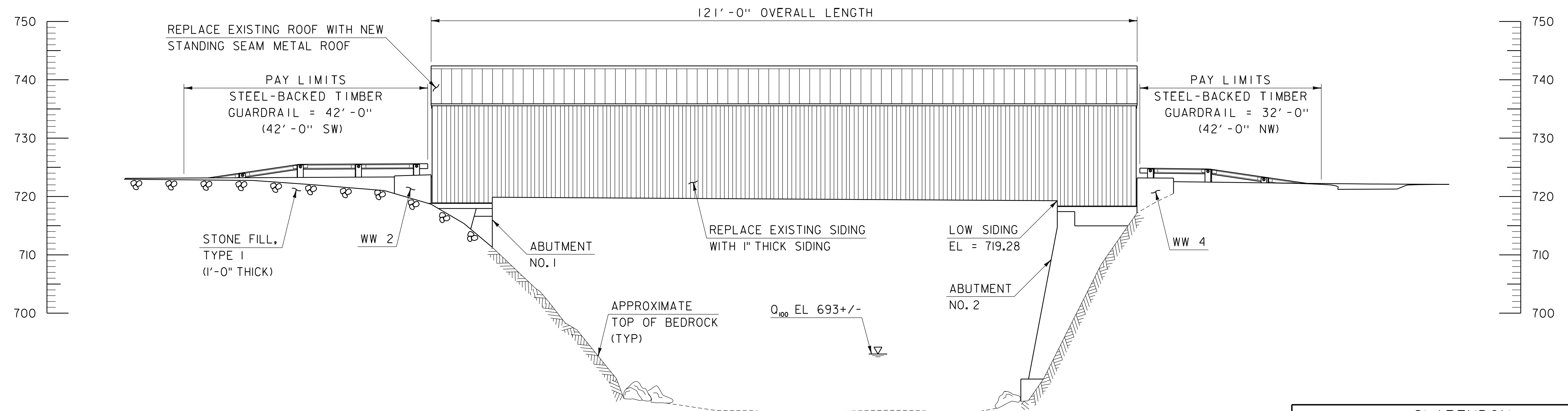
SCALE 1" = 20' - 0"  
 20 0 20



PROJECT NAME: CLARENDON	
PROJECT NUMBER: BO 1443(55)	
FILE NAME: z19j228bdr_tsl.dgn	PLOT DATE: 1/12/2022
PROJECT LEADER: J.BICJA	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: A.BEAULAC
TRAFFIC SIGN AND LINE LAYOUT	SHEET 12 OF 27



**PLAN**  
SCALE: 1" = 10'

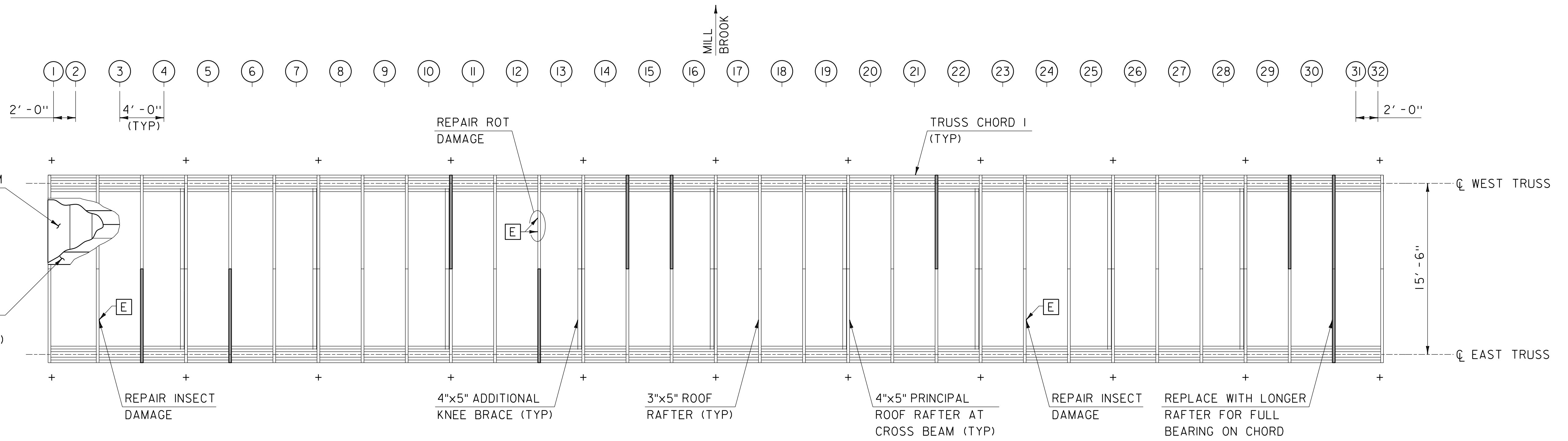
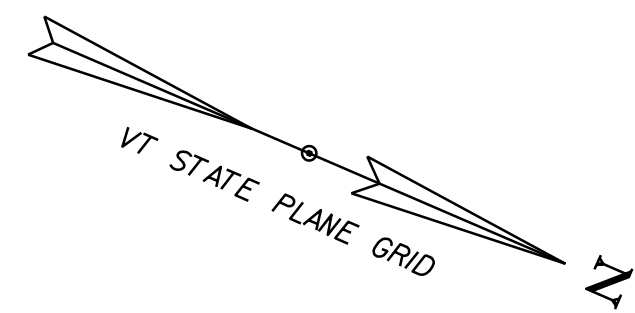


**ELEVATION AT UPSTREAM FASCIA**  
SCALE: 1" = 10'



PROJECT NAME:	CLARENDON	FILE NAME:	z19j228pe.dgn	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	PROJECT LEADER:	J.BICJA	DRAWN BY:	P.DUSTIN
		DESIGNED BY:	J.RIPLEY	CHECKED BY:	J.BICJA
		PLAN AND ELEVATION		SHEET	13 OF 27









**NOTES**

1. METAL ROOF AND ROOF BOARDS ARE PARTIALLY SHOWN FOR CLARITY.
2. INDIVIDUAL ROOF BOARDS IN NEED OF REPLACEMENT HAVE NOT BEEN IDENTIFIED. CONTRACTOR AND ENGINEER SHALL JOINTLY INSPECT AND IDENTIFY ROOF BOARDS IN NEED OF REPLACEMENT.

**ROOF FRAMING PLAN**

SCALE: 3/16" = 1'-0"

**LEGEND**

-  PREDETERMINED MEMBER TO BE REPLACED
-  TRUSS NODE LOCATION
-  ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIR)
-  APPROXIMATE LOCATION OF CROSS BEAM (NOT SHOWN FOR CLARITY)

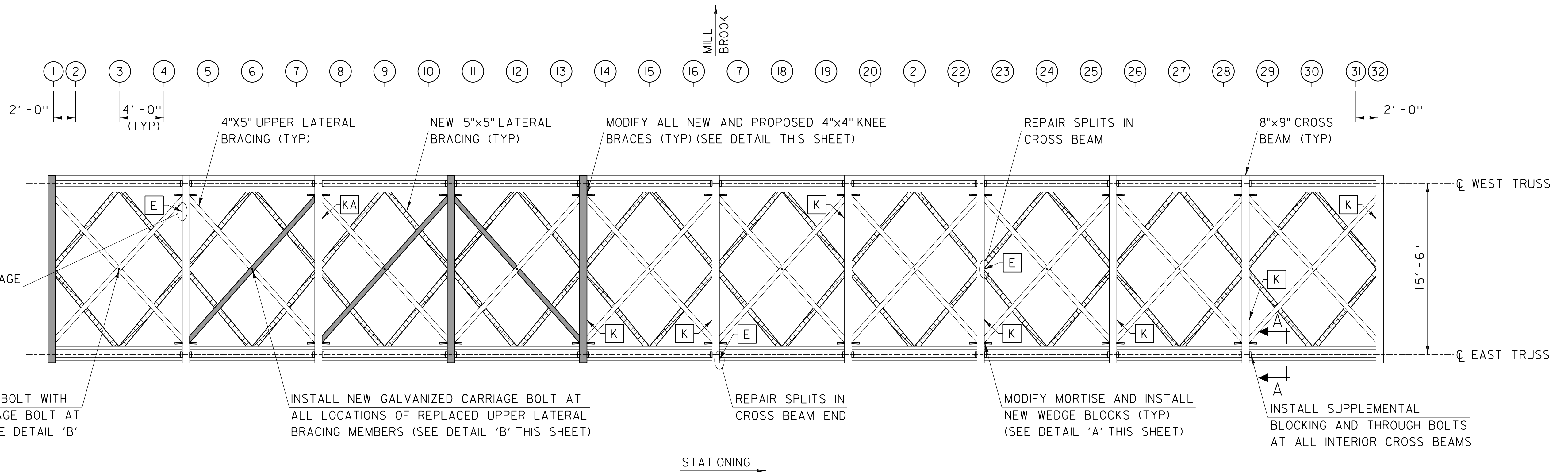
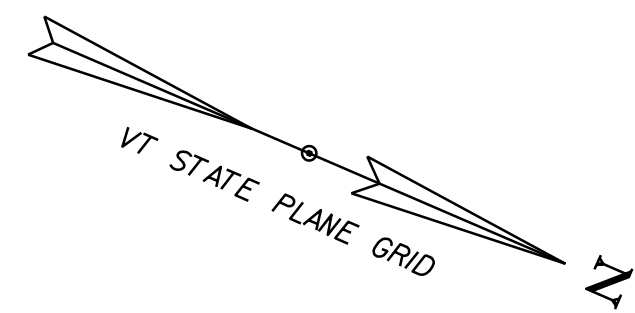
PROJECT NAME: CLARENDON  
 PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228sup3.dgn  
 PROJECT LEADER: J.BICJA  
 DESIGNED BY: J.RIPLEY  
 ROOF FRAMING PLAN

PLOT DATE: 1/12/2022  
 DRAWN BY: P.DUSTIN  
 CHECKED BY: J.BICJA  
 SHEET 14 OF 27

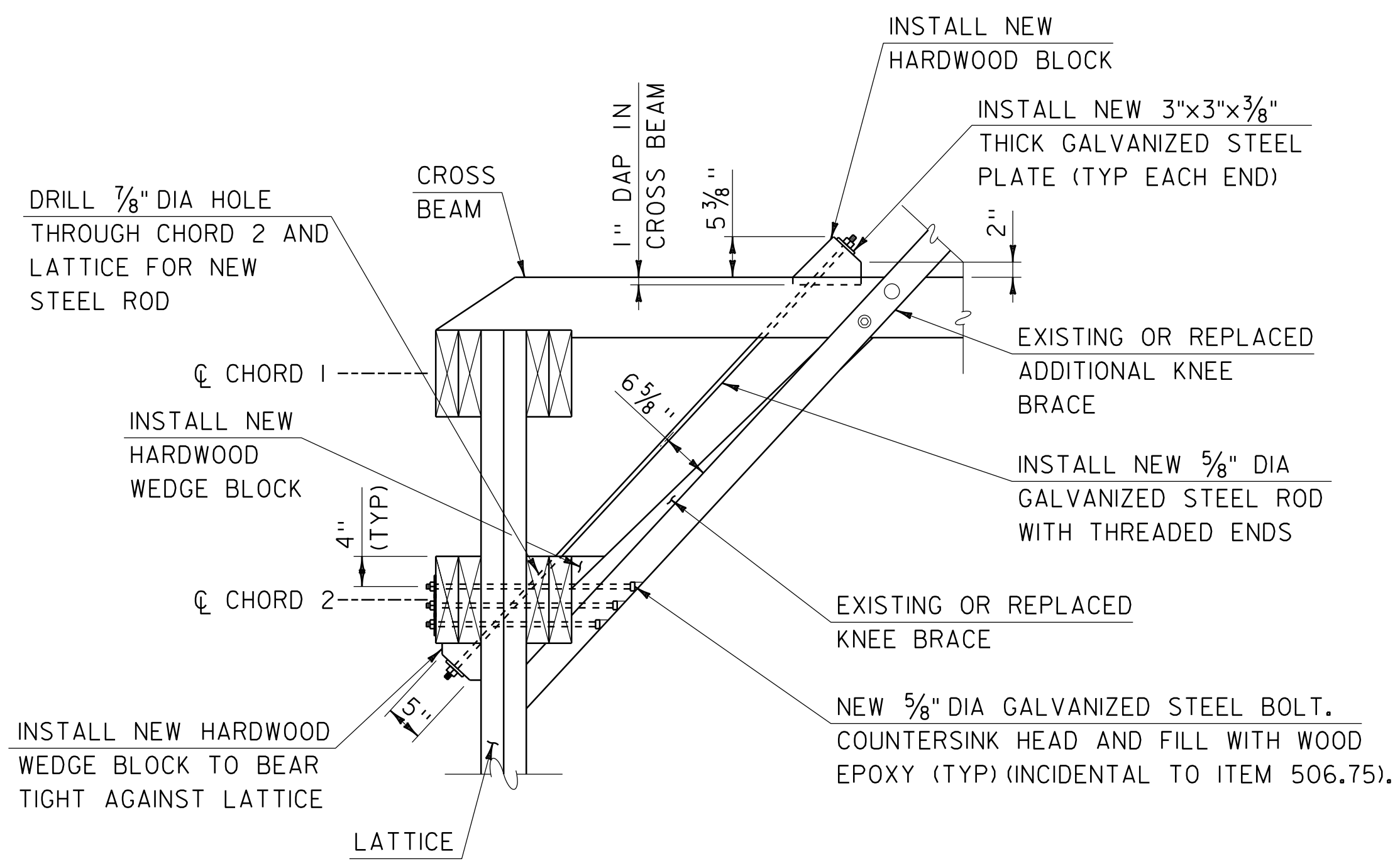






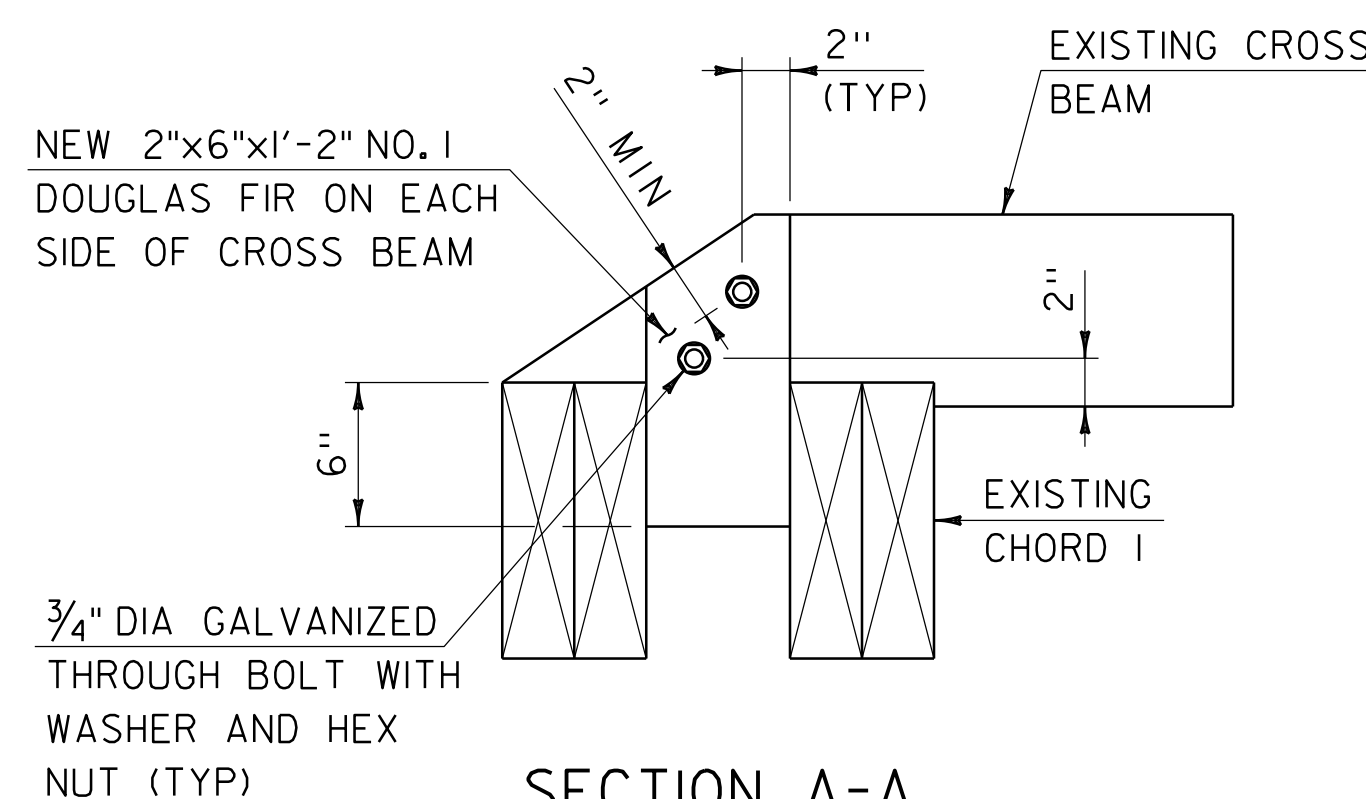
**UPPER LATERAL BRACING PLAN**

SCALE: 3/16" = 1'-0"



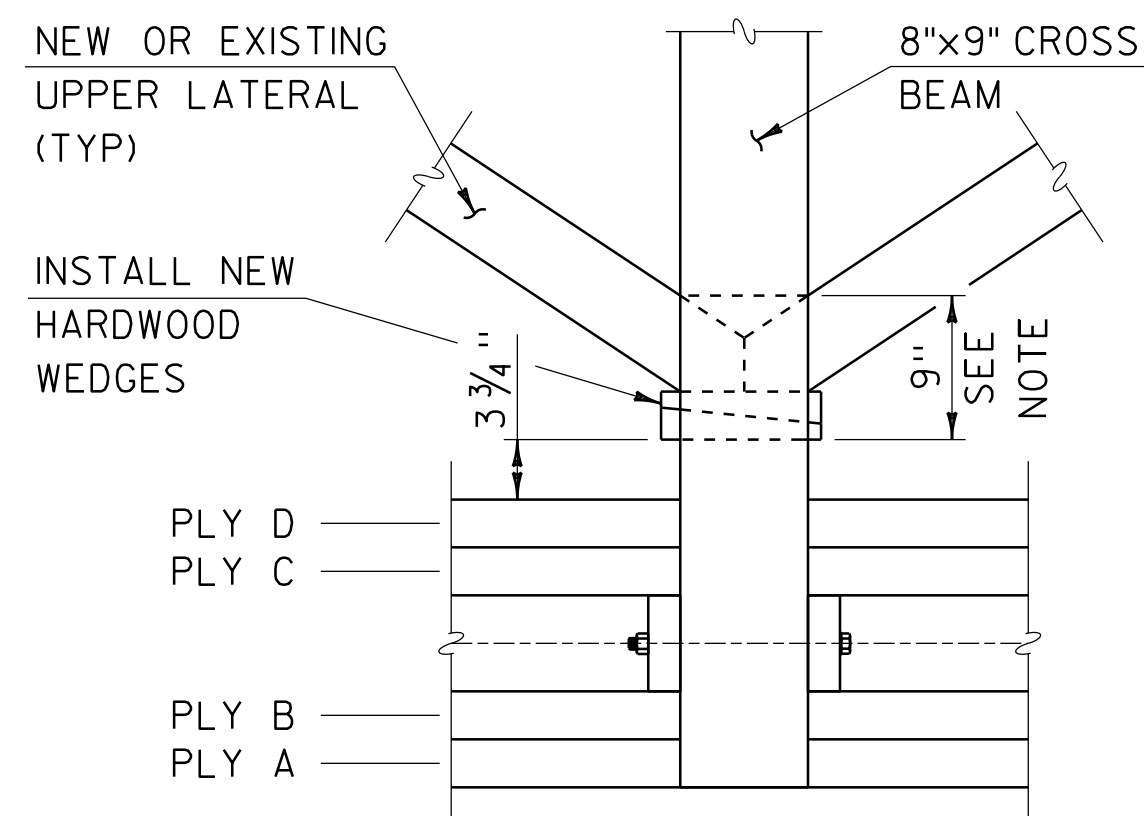
**KNEE BRACE MODIFICATION DETAIL**

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



**SECTION A-A**

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

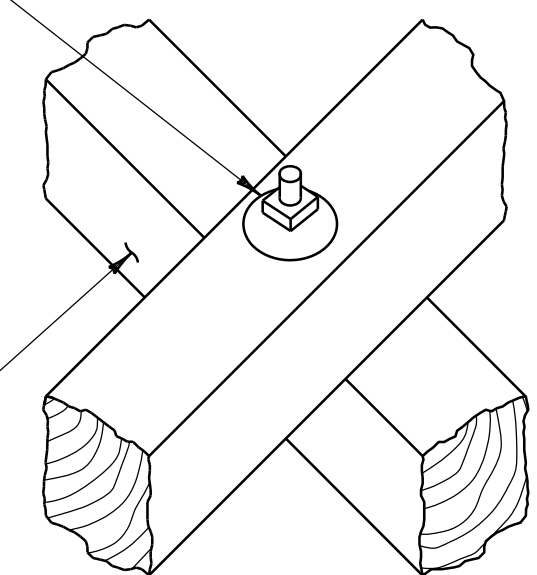


**WEDGE DETAIL**

NOT TO SCALE

INSTALL NEW 1/2" DIA CARRIAGE BOLT, HEAVY SQUARE NUT AND Ogee WASHER (GALVANIZED). Ogee WASHER TO BE ON TOP FACE OF BRACING (TYP)

EXISTING OR NEW UPPER LATERAL BRACING



**DETAIL 'B'**

NOT TO SCALE

**LEGEND**

- PREDETERMINED MEMBER TO BE REPLACED
- NEW MEMBER
- TRUSS NODE LOCATION
- REPLACE EXISTING KNEE BRACE
- REPLACE EXISTING ADDED KNEE BRACE
- ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIR)

PROJECT NAME: CLARENDON  
PROJECT NUMBER: BO 1443(55)

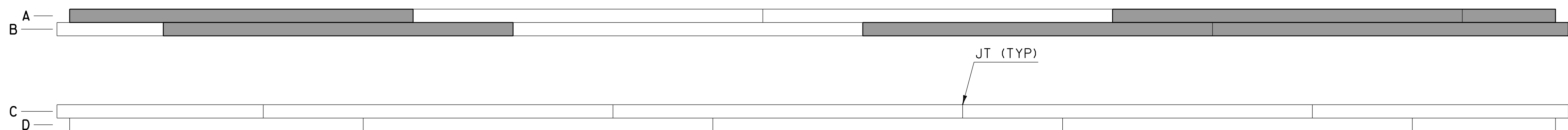
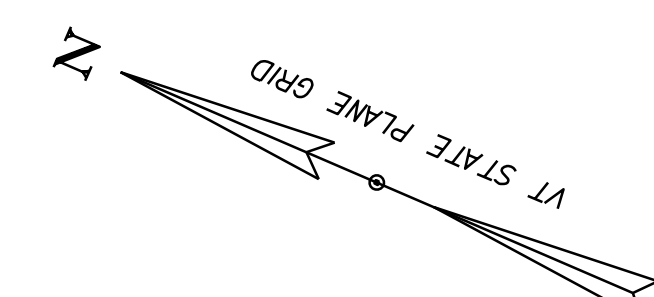
FILE NAME: z19j228sup4.dgn  
PROJECT LEADER: J.BICJA  
DESIGNED BY: J.RIPLEY  
UPPER LATERAL BRACING PLAN

PLOT DATE: 1/12/2022  
DRAWN BY: P.DUSTIN  
CHECKED BY: J.BICJA  
SHEET 15 OF 27

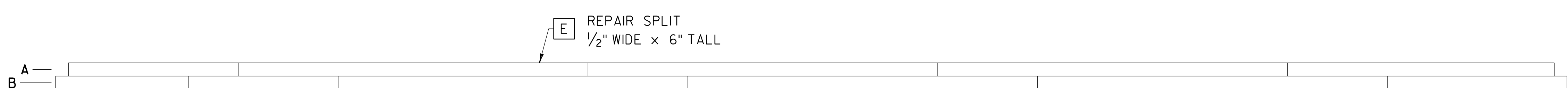


**DETAIL 'A'**

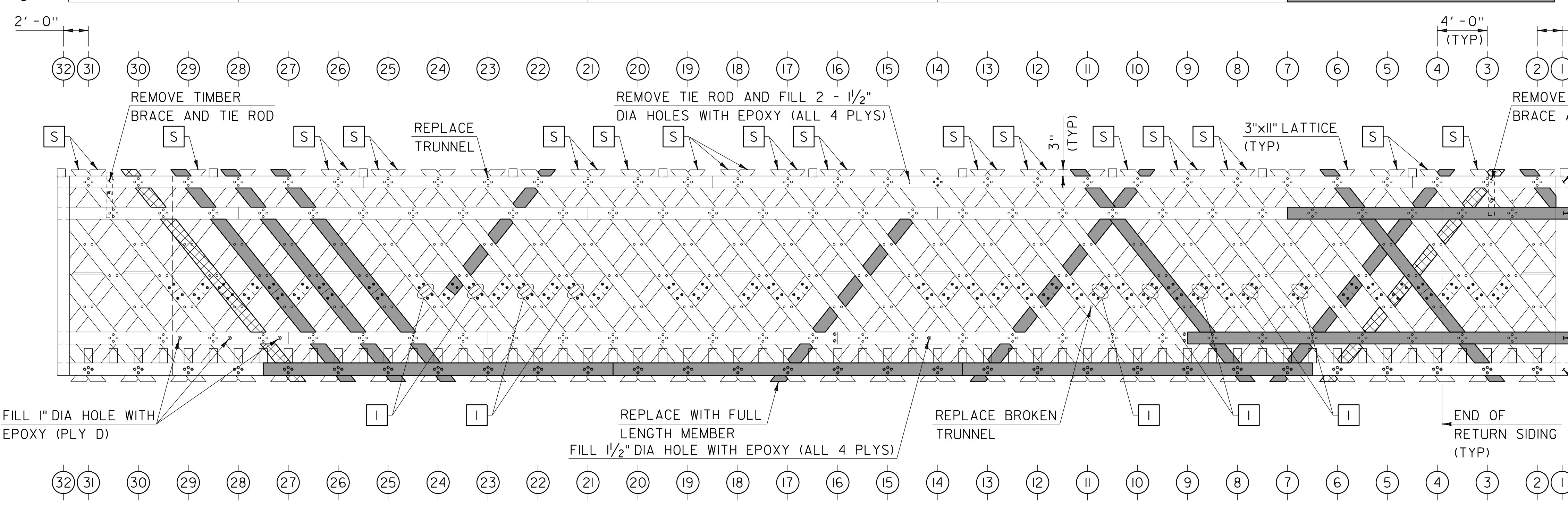
SCALE: 1" = 1'-0"



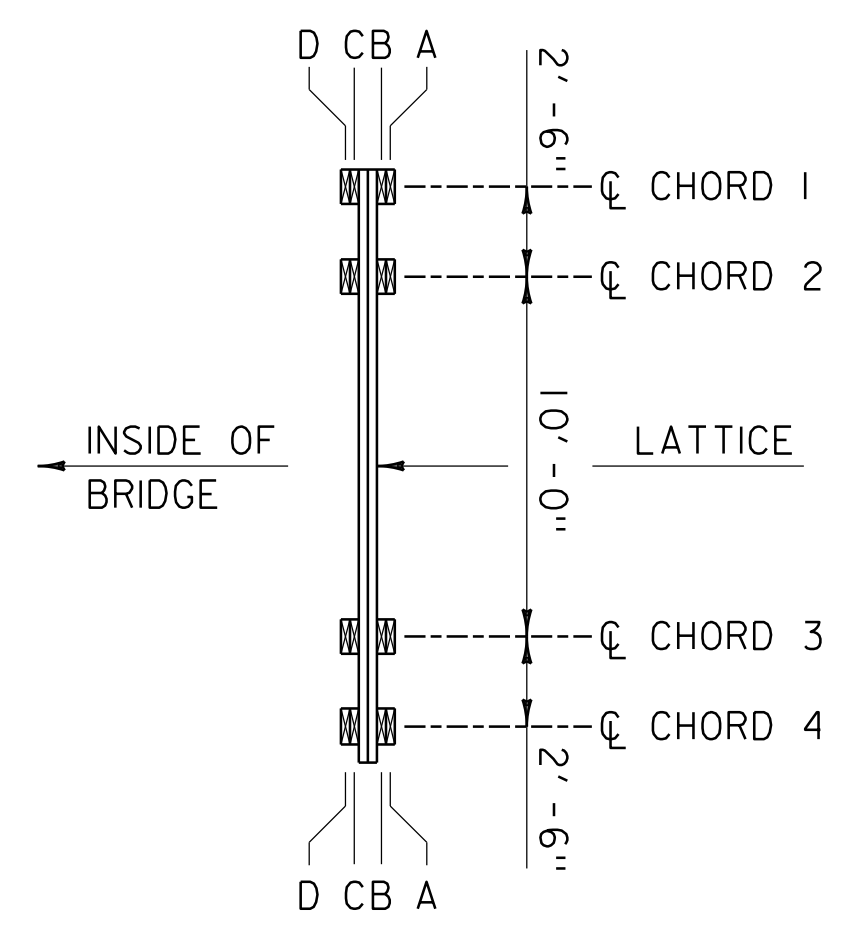
**CHORD 1 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)



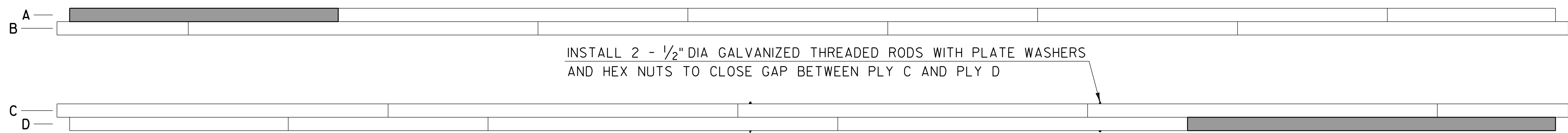
**CHORD 2 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)



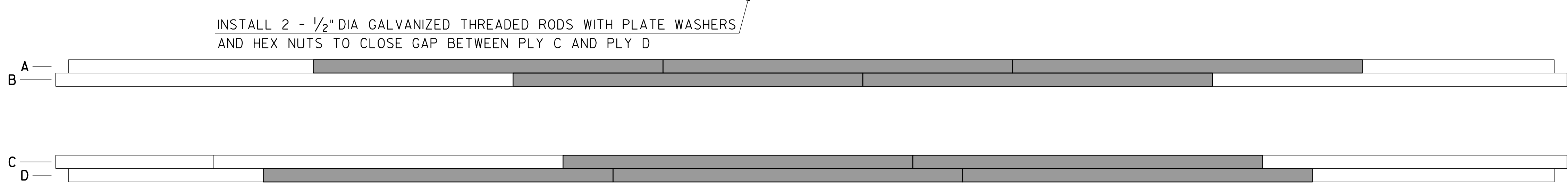
**EAST TRUSS (LOOKING EAST/UPSTREAM)**  
SCALE: 3/16" = 1'-0"



**TYPICAL TRUSS SECTION**  
SCALE: 3/16" = 1'-0"



**CHORD 3 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)

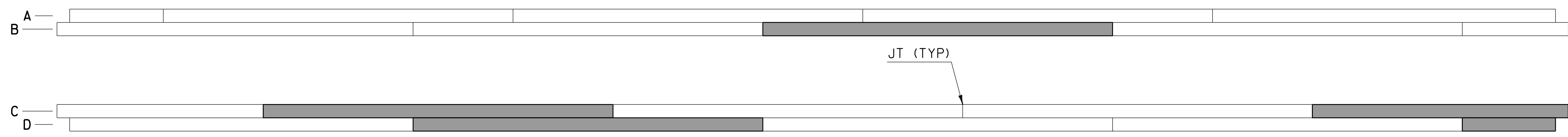
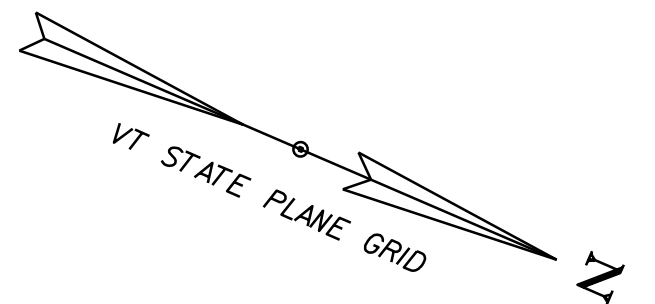


**CHORD 4 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)

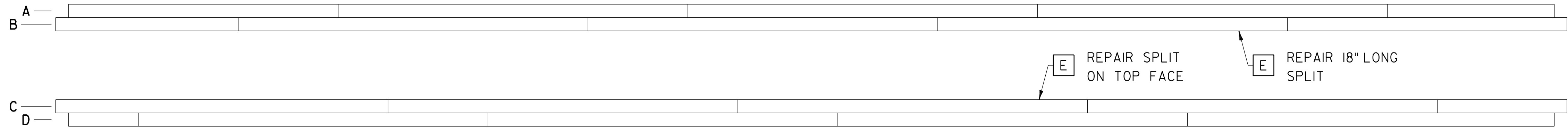
- LEGEND**
- PREDETERMINED MEMBER TO BE REPLACED
  - MEMBER TO BE REPLACED WITH 4 1/2"x11" TIMBER
  - I ADD 2 ADDITIONAL 1" DIA BOLTS (SEE DETAIL ON SHEET X)
  - JT CHORD PLY BUTT JOINT
  - XX TRUSS NODE LOCATION
  - S REPAIR SPLIT IN LATTICE (SEE DETAIL ON SHEET X)
  - E ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIR)

PROJECT NAME:	CLARENDON	FILE NAME:	z19j228sup5.dgn	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	PROJECT LEADER:	J.BICJA	DRAWN BY:	P.DUSTIN
		DESIGNED BY:	J.RIPLEY	CHECKED BY:	J.BICJA
		EAST TRUSS PLAN AND ELEVATION			SHEET 16 OF 27

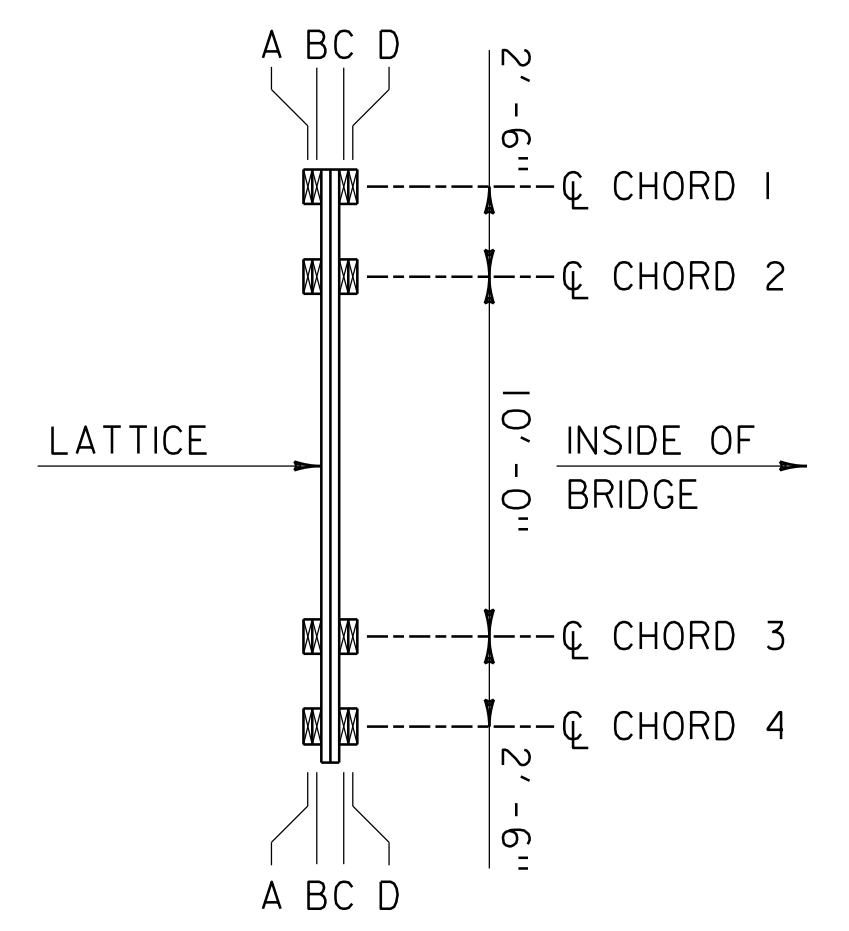
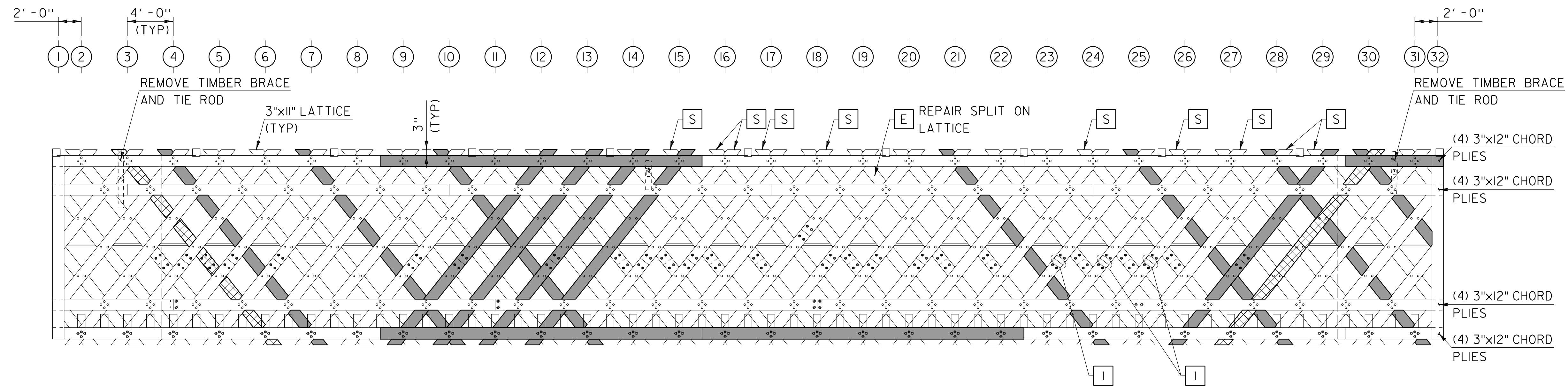




**CHORD 1 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)

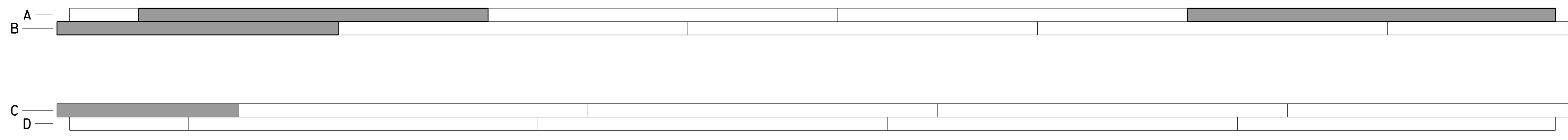


**CHORD 2 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)

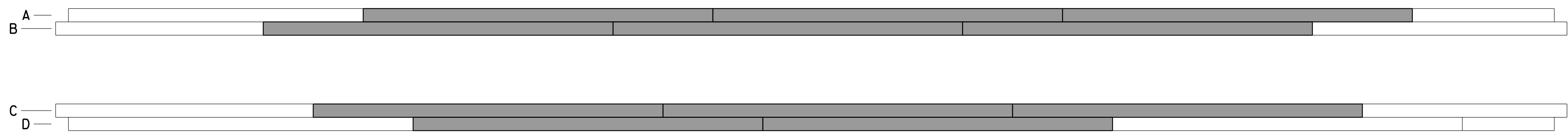


**TYPICAL TRUSS SECTION**  
SCALE: 3/16" = 1'-0"

**WEST TRUSS (LOOKING WEST/DOWNSTREAM)**  
SCALE: 3/16" = 1'-0"



**CHORD 3 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)



**CHORD 4 PLAN**  
SCALE: 3/16" = 1'-0"  
NTS (V)

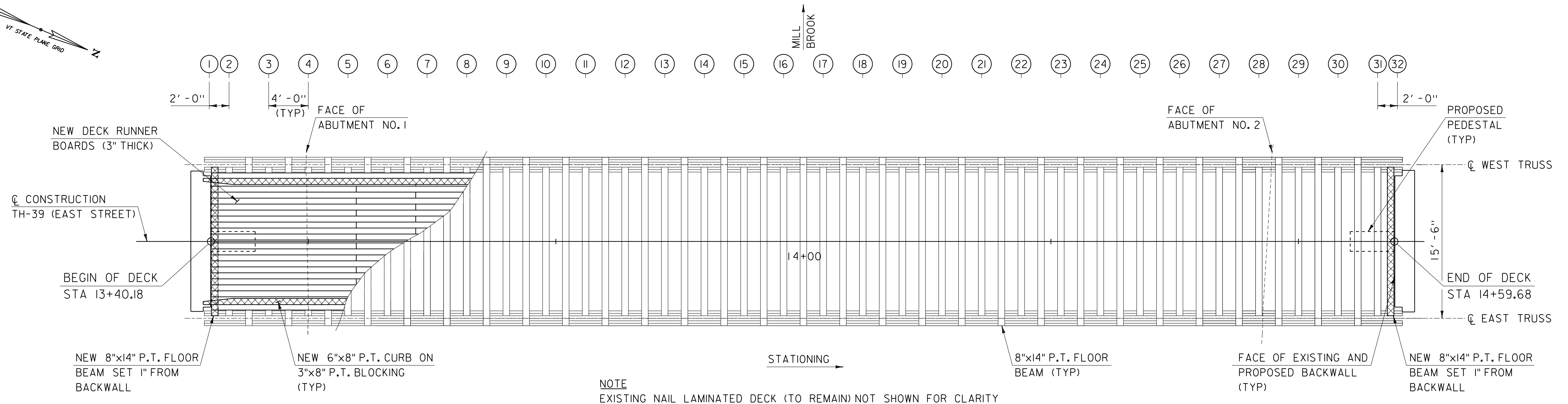
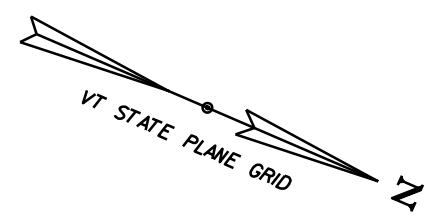
- LEGEND**
- PREDETERMINED MEMBER TO BE REPLACED
  - MEMBER TO BE REPLACED WITH 4 1/2"x12" TIMBER
  - ADD 2 ADDITIONAL 1" DIA BOLTS (SEE DETAIL ON SHEET X)
  - JT CHORD PLY BUTT JOINT
  - TRUSS NODE LOCATION
  - ITEM 900.620, SPECIAL PROVISION (WOOD EPOXY REPAIR)
  - REPAIR SPLIT IN LATTICE (SEE DETAIL ON SHEET X)

PROJECT NAME: CLARENDON  
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228sup5.dgn  
PROJECT LEADER: J.BICJA  
DESIGNED BY: J.RIPLEY  
WEST TRUSS PLAN AND ELEVATION

PLOT DATE: 1/12/2022  
DRAWN BY: P.DUSTIN  
CHECKED BY: J.BICJA  
SHEET 17 OF 27

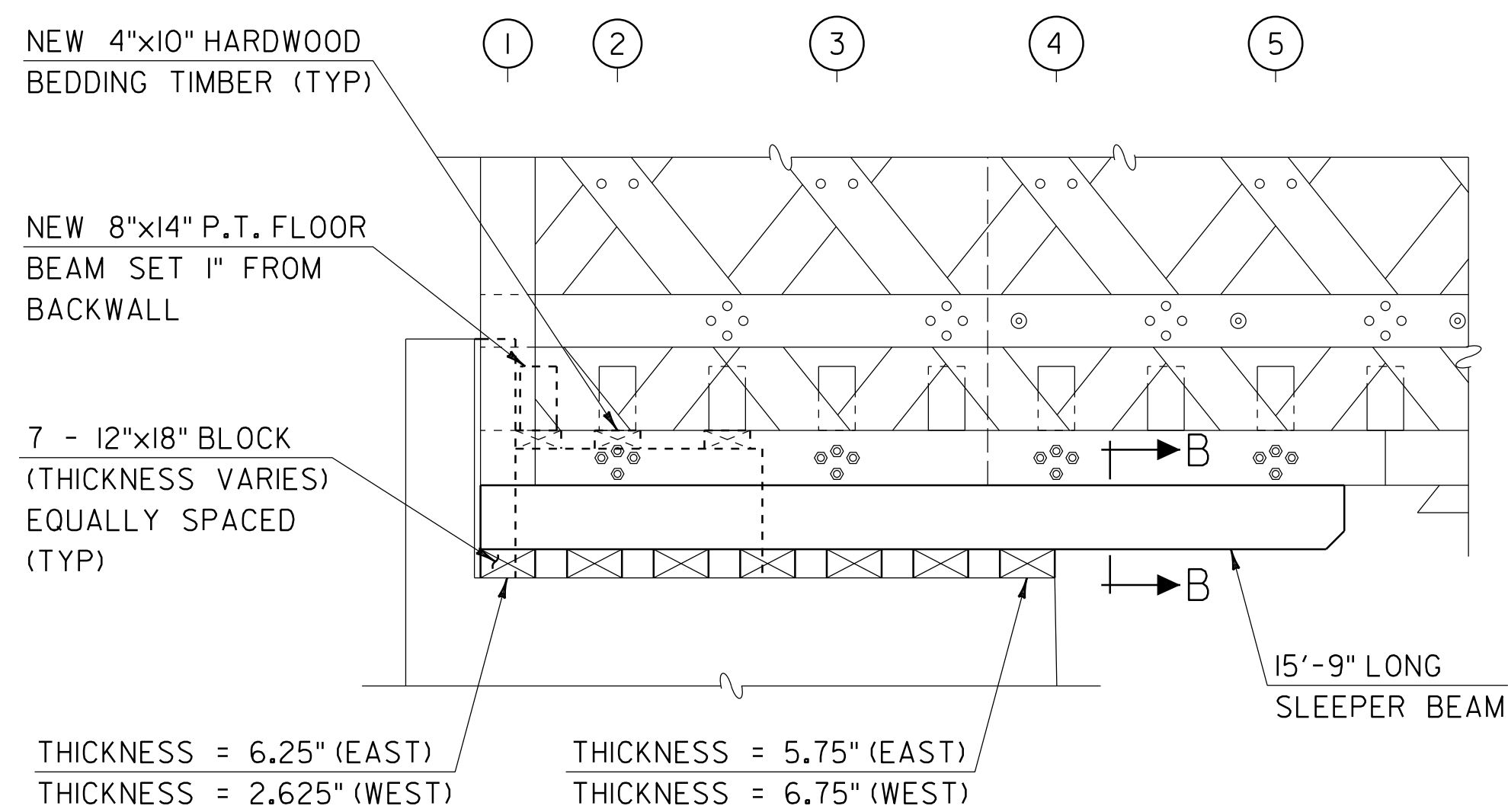




**NOTE**  
EXISTING NAIL LAMINATED DECK (TO REMAIN) NOT SHOWN FOR CLARITY

**FLOOR FRAMING PLAN**

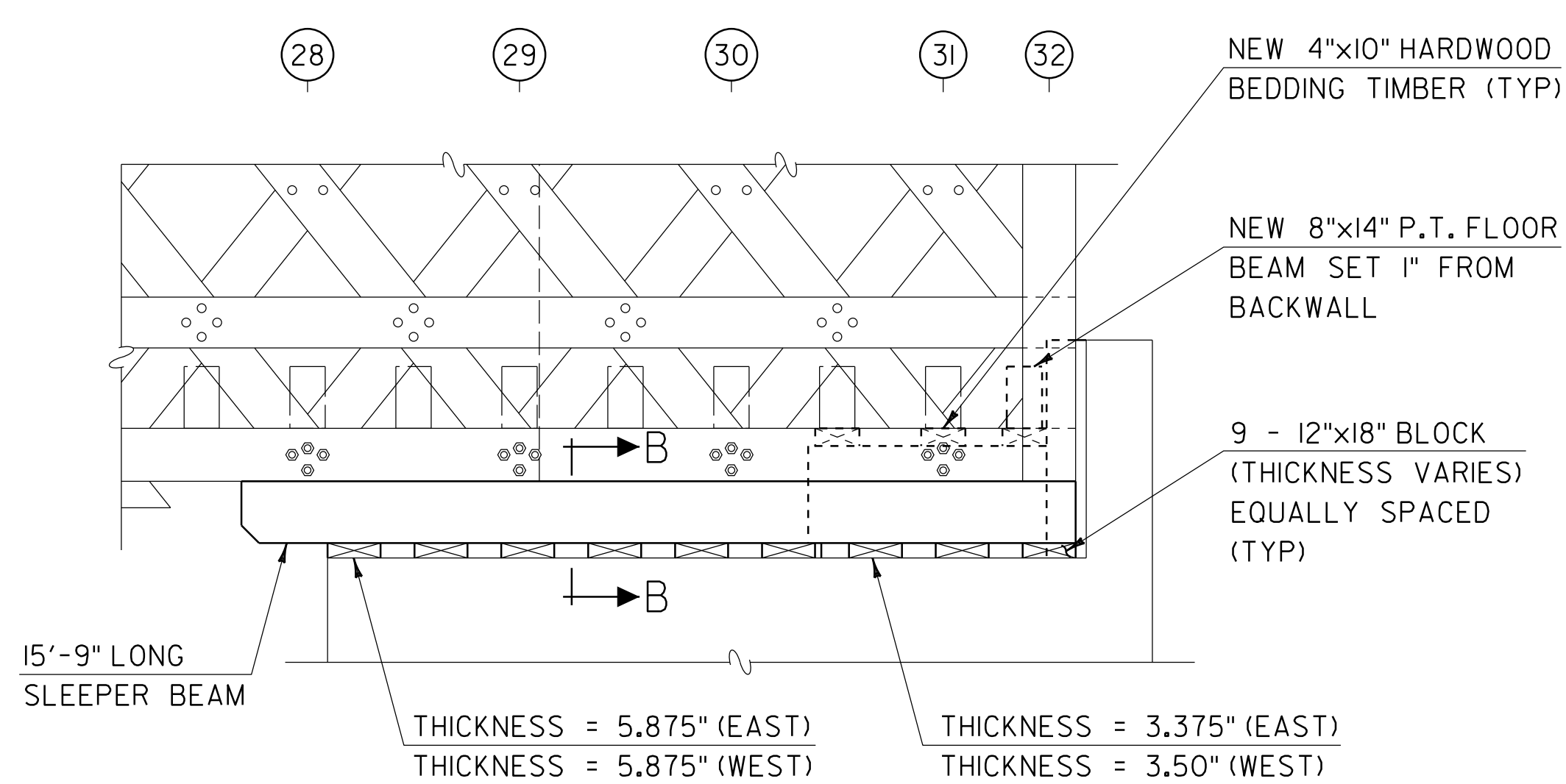
SCALE: 3/16" = 1'-0"



**ABUTMENT NO. 1 BEARING**

(EAST TRUSS SHOWN, WEST TRUSS SIMILAR)

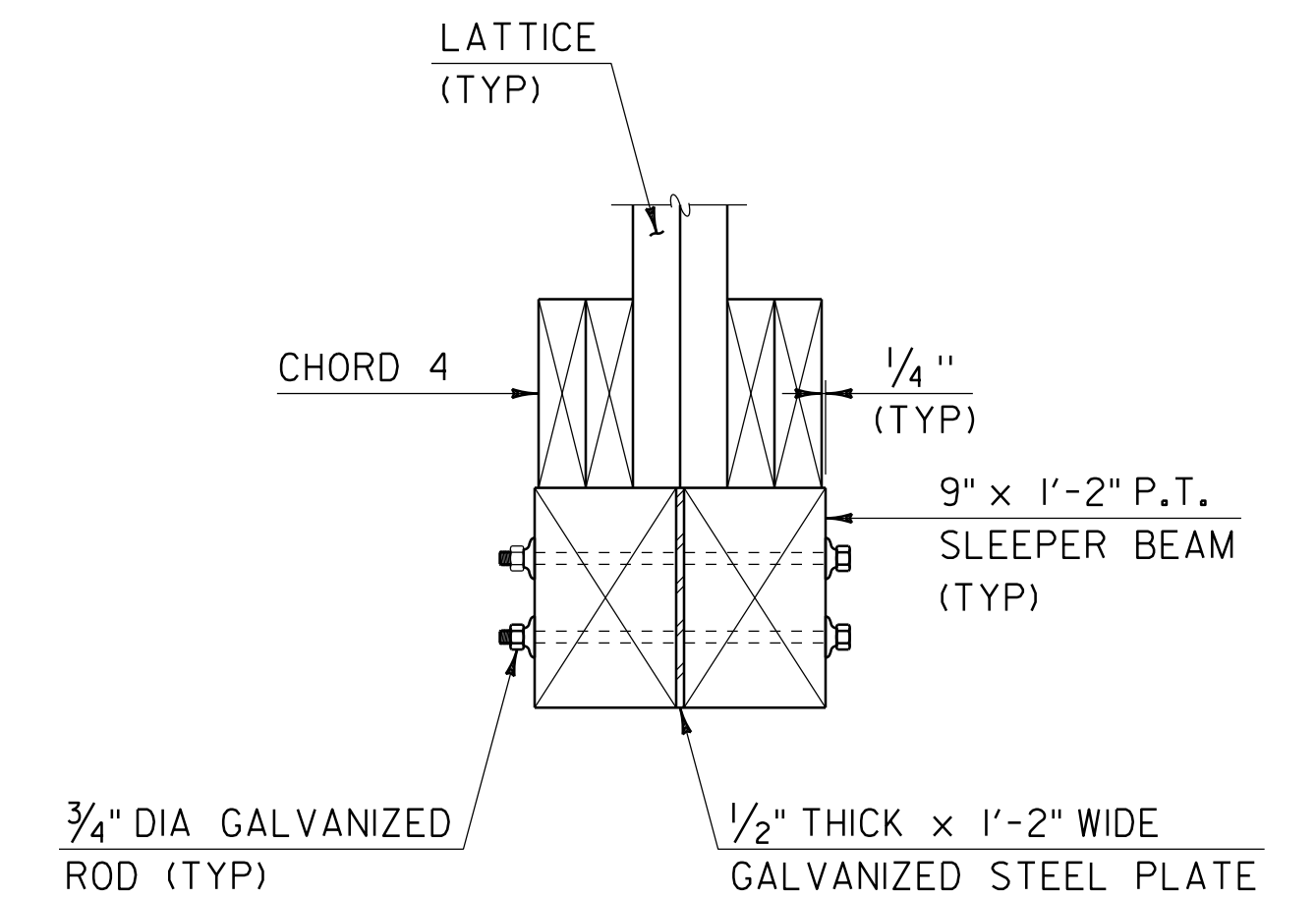
SCALE: 3/8" = 1'-0"



**ABUTMENT NO. 2 BEARING**

(EAST TRUSS SHOWN, WEST TRUSS SIMILAR)

SCALE: 3/8" = 1'-0"



**SECTION B-B**

SCALE: 3/16" = 1'-0"

**LEGEND**

NEW MEMBER

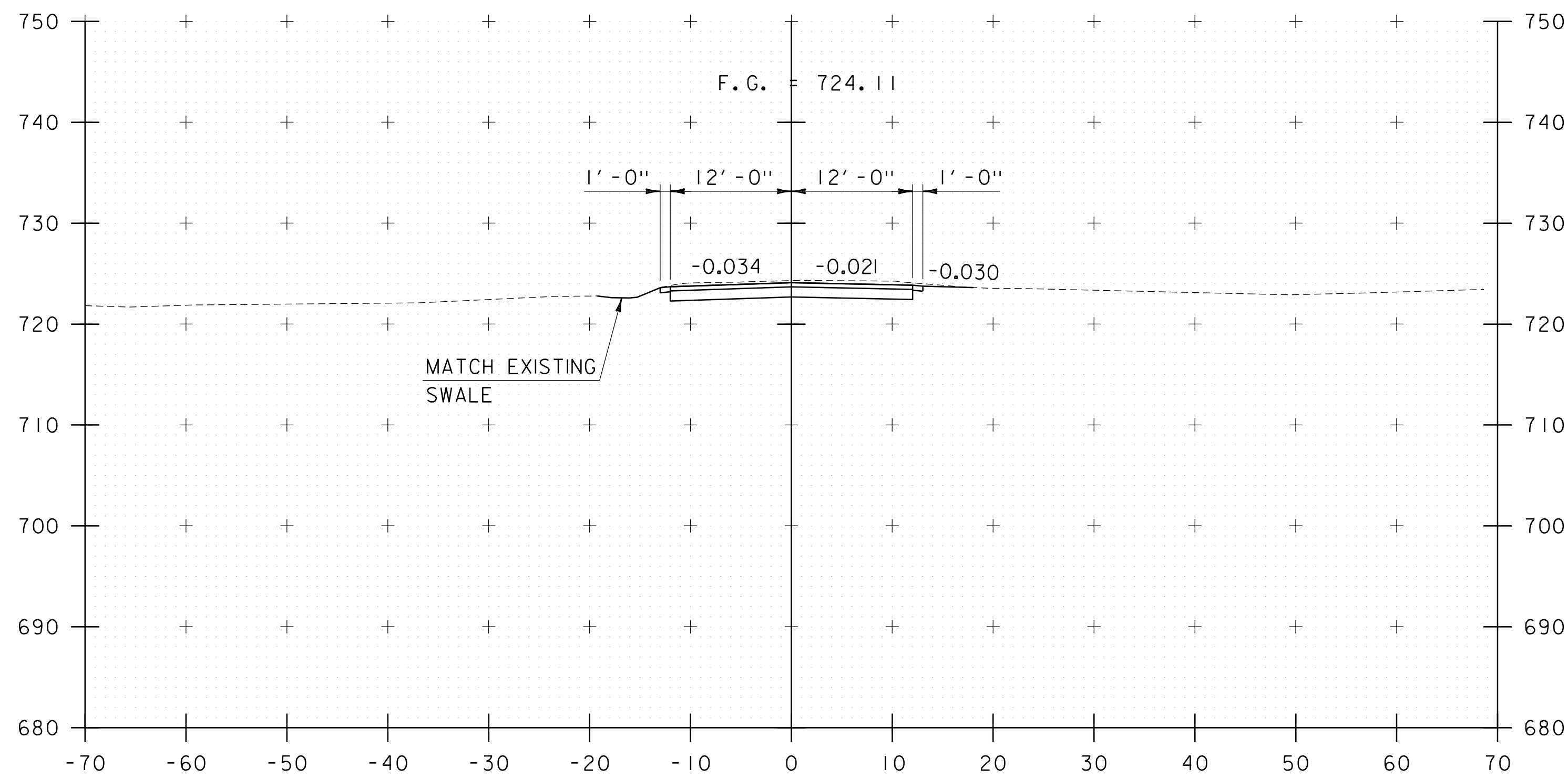
P. T. PRESSURE TREATED



PROJECT NAME: CLARENDON  
PROJECT NUMBER: BO 1443(55)

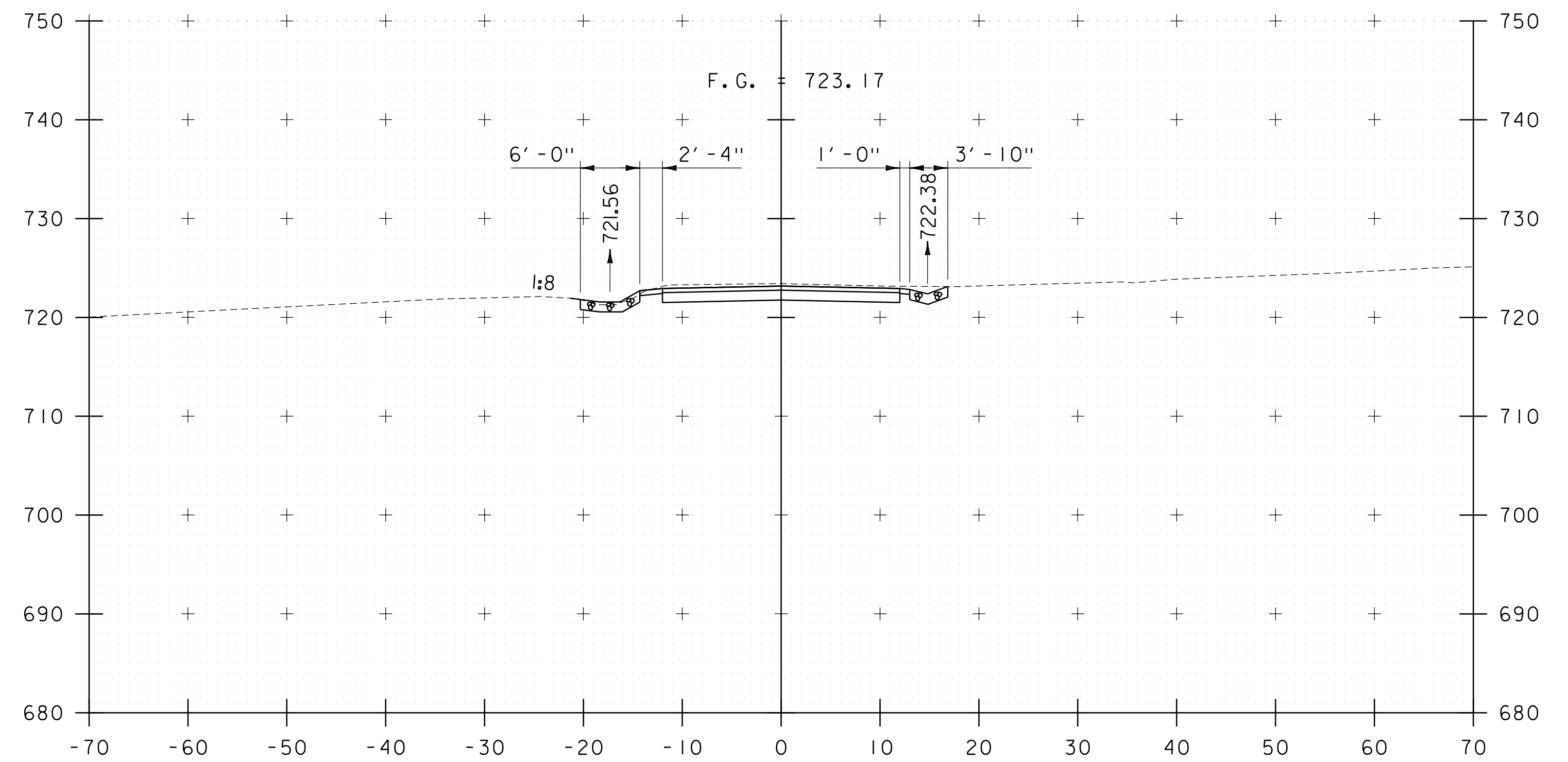
FILE NAME: z19j228sup6.dgn  
PROJECT LEADER: J.BICJA  
DESIGNED BY: J.RIPLEY  
FLOOR FRAMING PLAN

PLOT DATE: 1/12/2022  
DRAWN BY: P.DUSTIN  
CHECKED BY: J.BICJA  
SHEET 18 OF 27

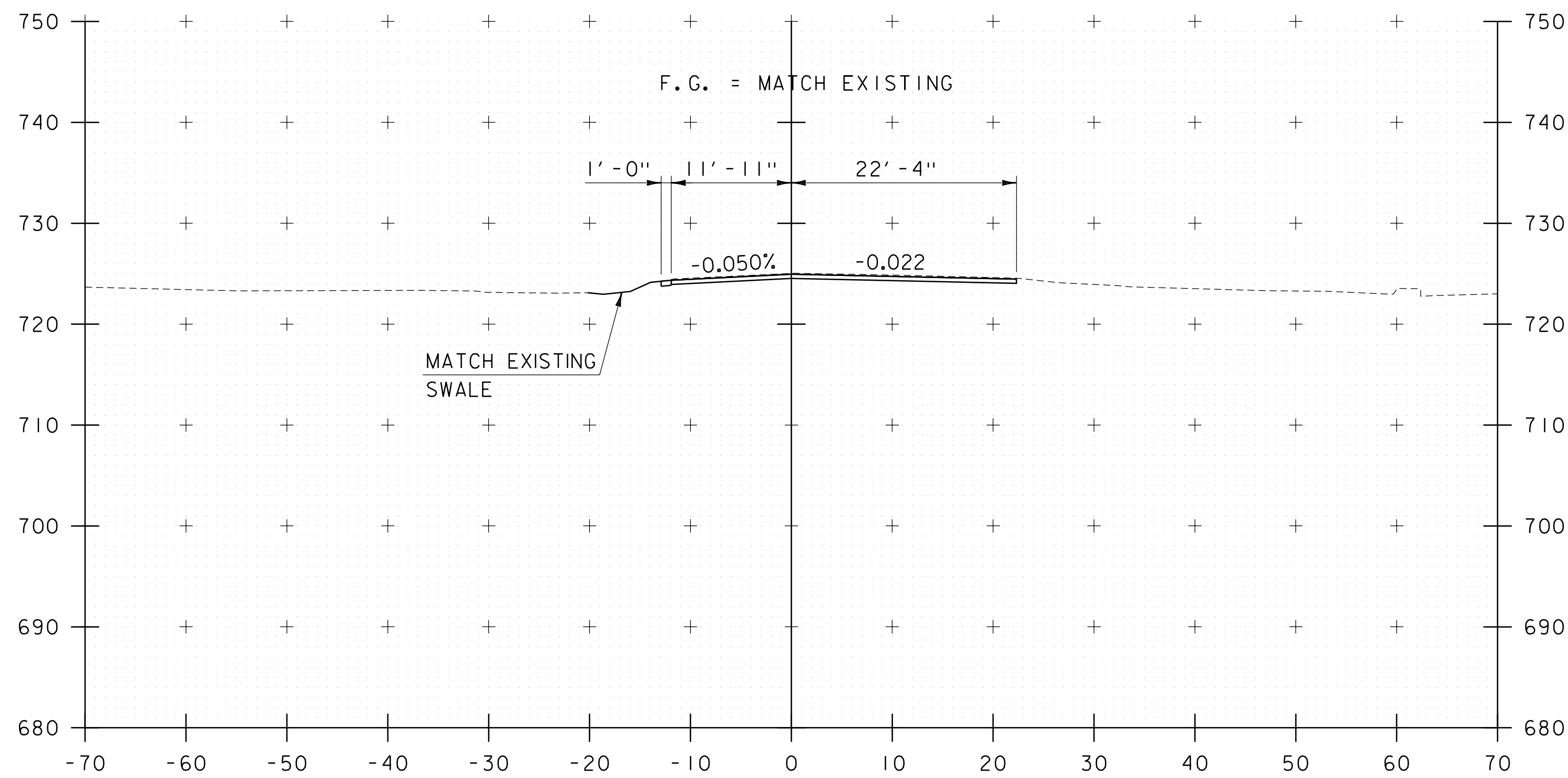


BEGIN PROJECT  
STA 12+00.00

12+00

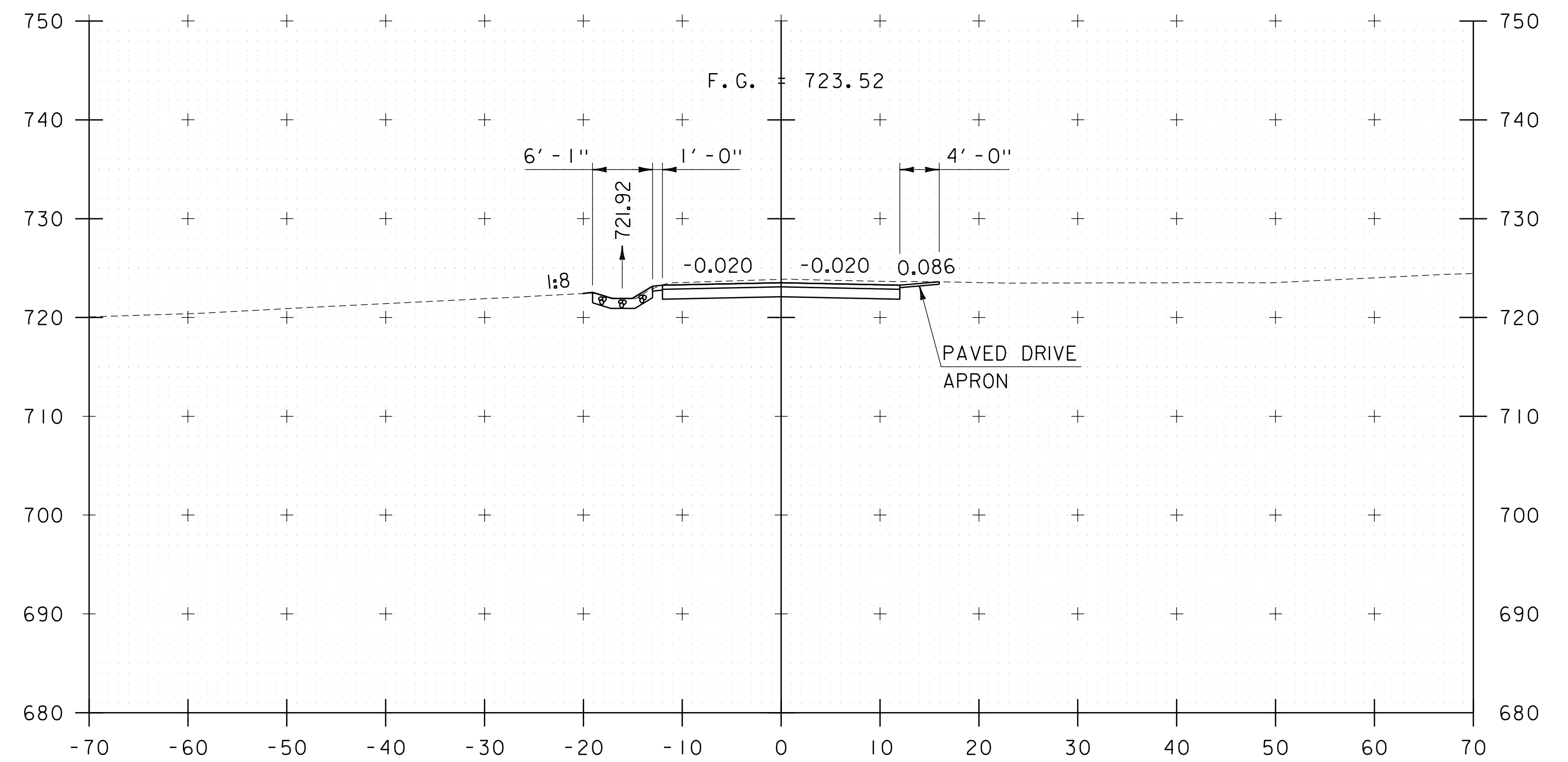


12+50



BEGIN APPROACH  
STA 11+75.00  
MATCH EXISTING

11+75



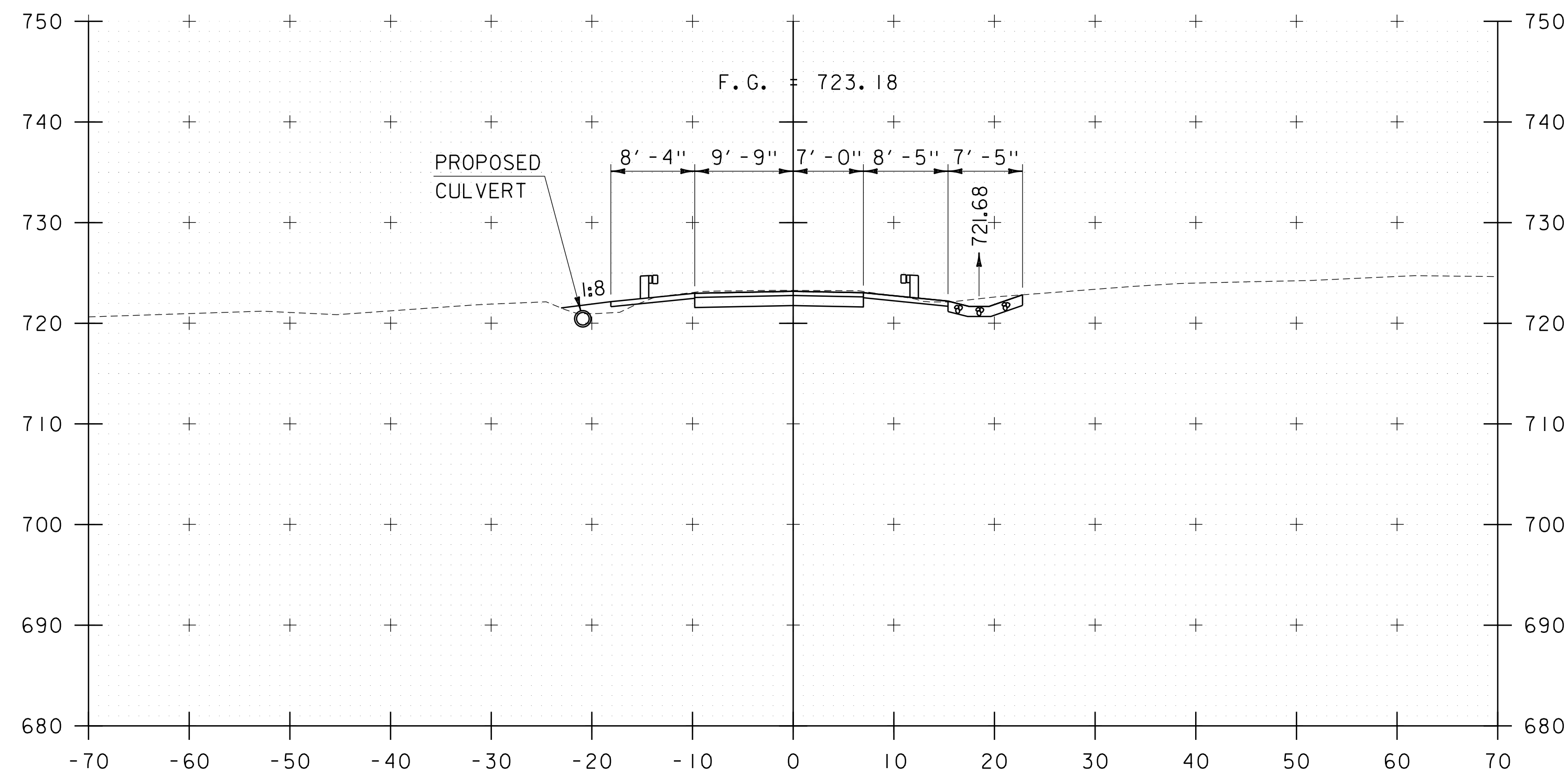
12+25



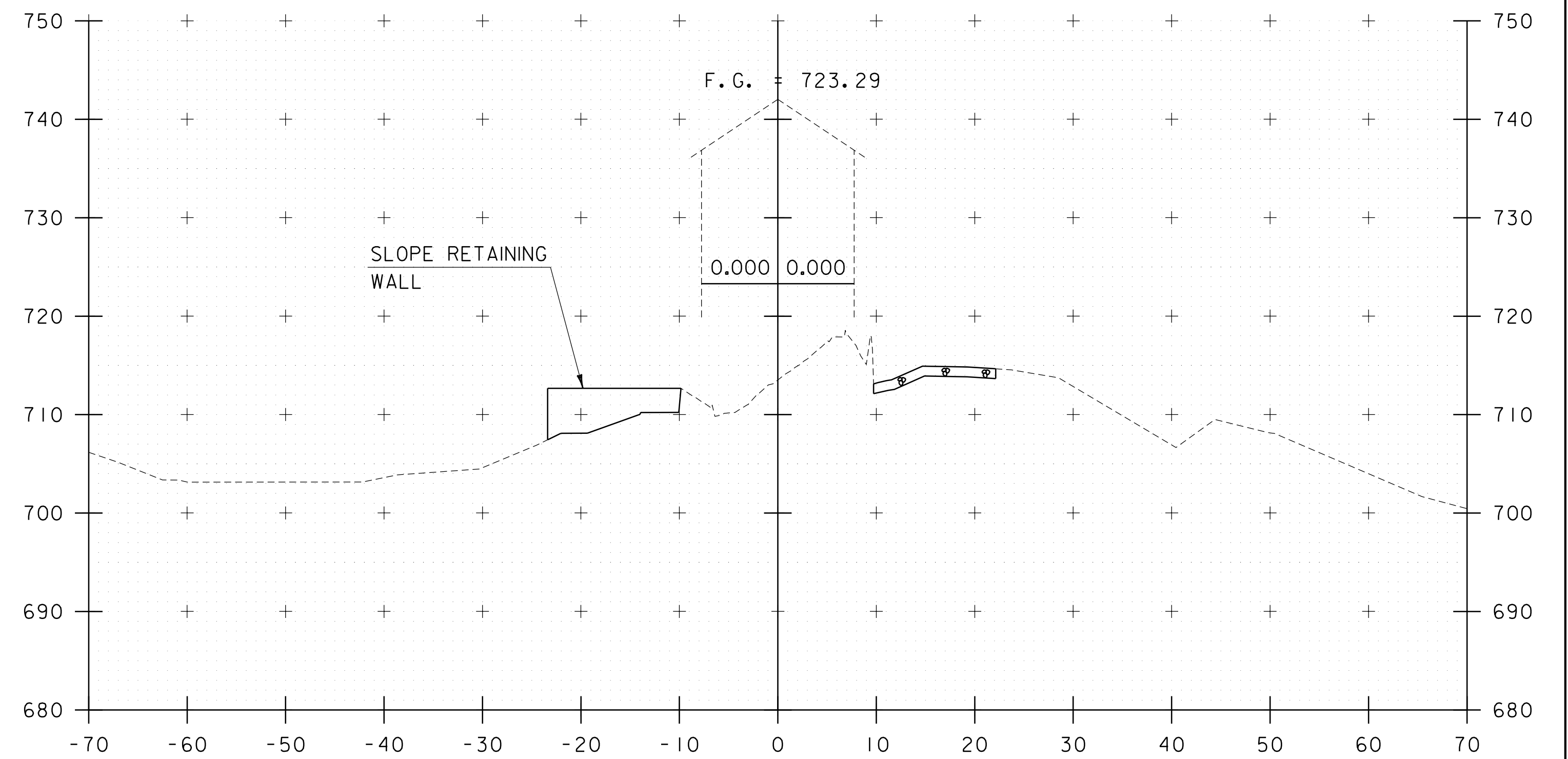
PROJECT NAME: CLARENDON  
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228xsl.dgn  
PROJECT LEADER: J.BICJA  
DESIGNED BY: K.WELCH  
ROADWAY CROSS SECTIONS I

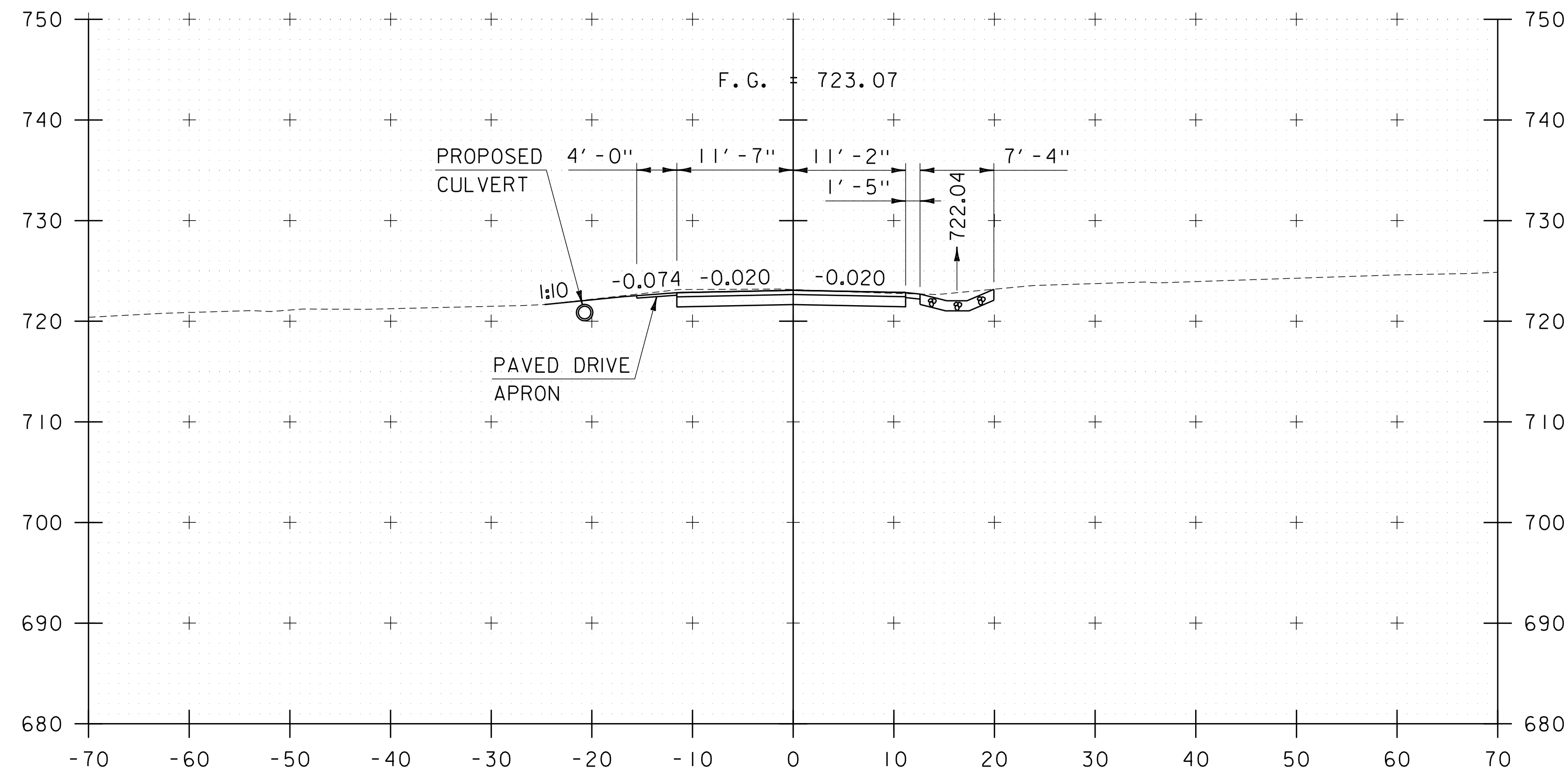
PLOT DATE: 1/12/2022  
DRAWN BY: K.WELCH  
CHECKED BY: J.BICJA  
SHEET 19 OF 27



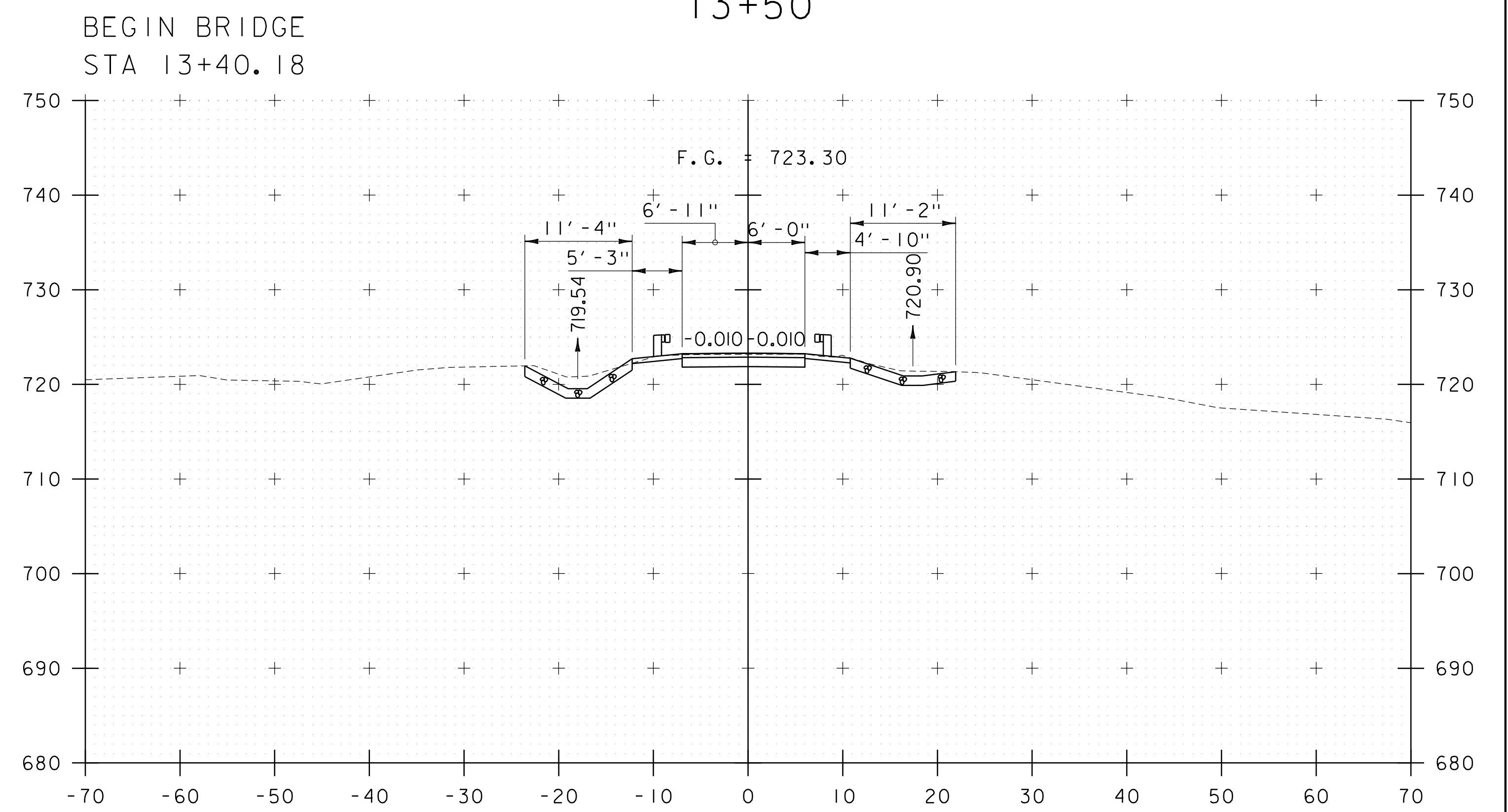
13+00



13+50



12+75

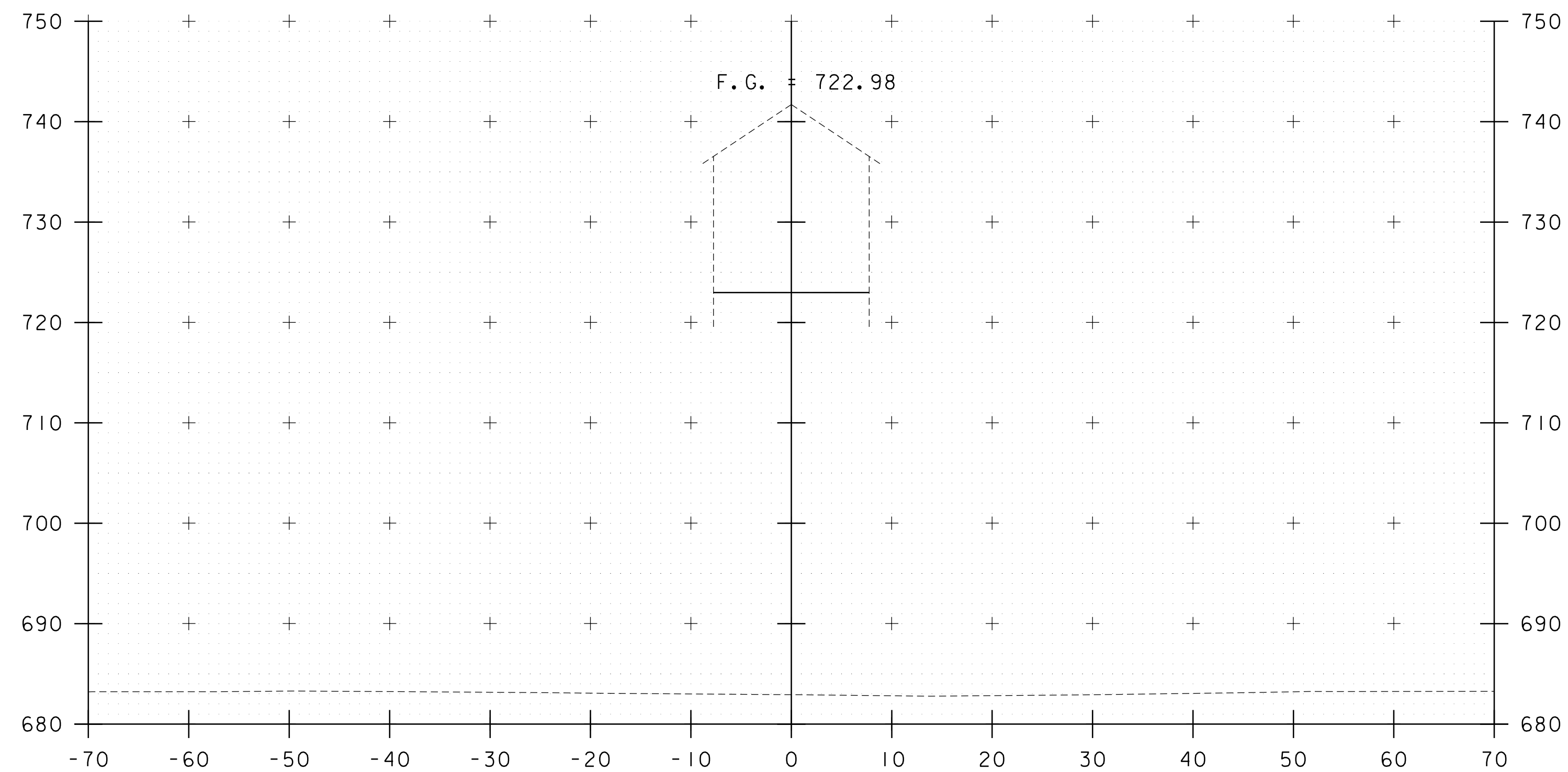


13+25

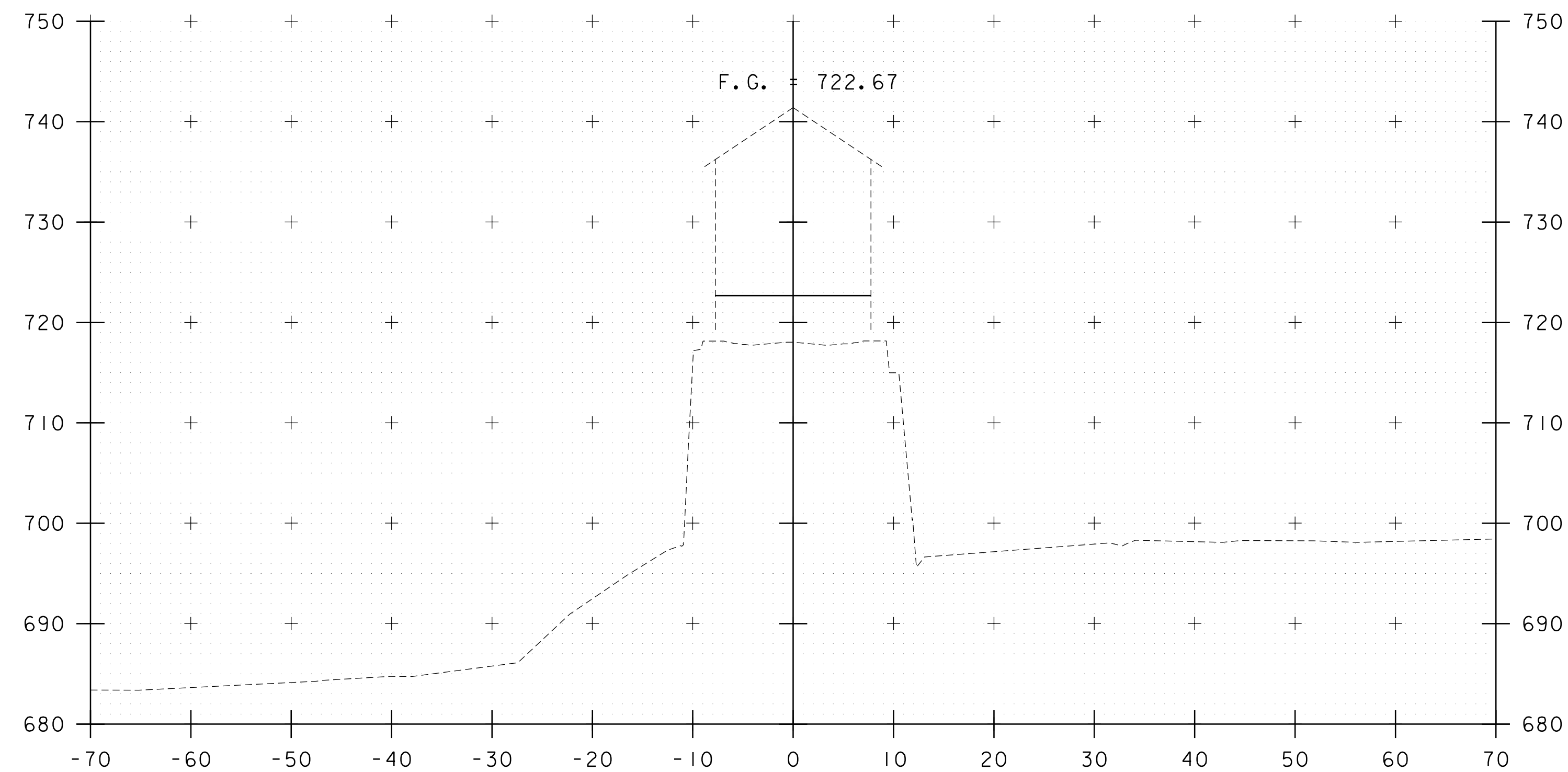


PROJECT NAME: CLARENDON	PLOT DATE: 1/12/2022
PROJECT NUMBER: BO 1443(55)	DRAWN BY: K.WELCH
FILE NAME: z19j228xsl.dgn	CHECKED BY: J.BICJA
PROJECT LEADER: J.BICJA	ROADWAY CROSS SECTIONS 2
DESIGNED BY: K.WELCH	SHEET 20 OF 27

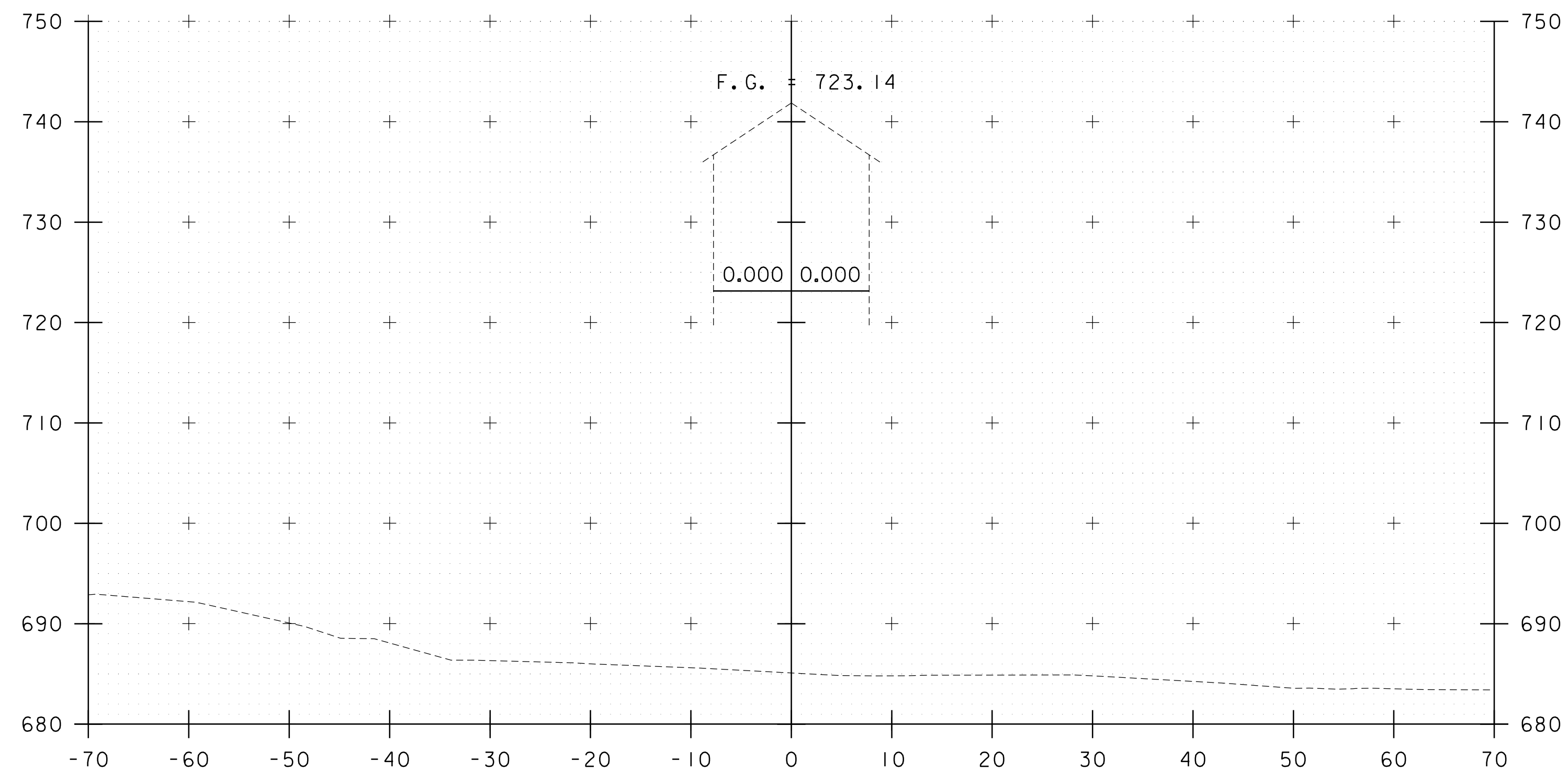




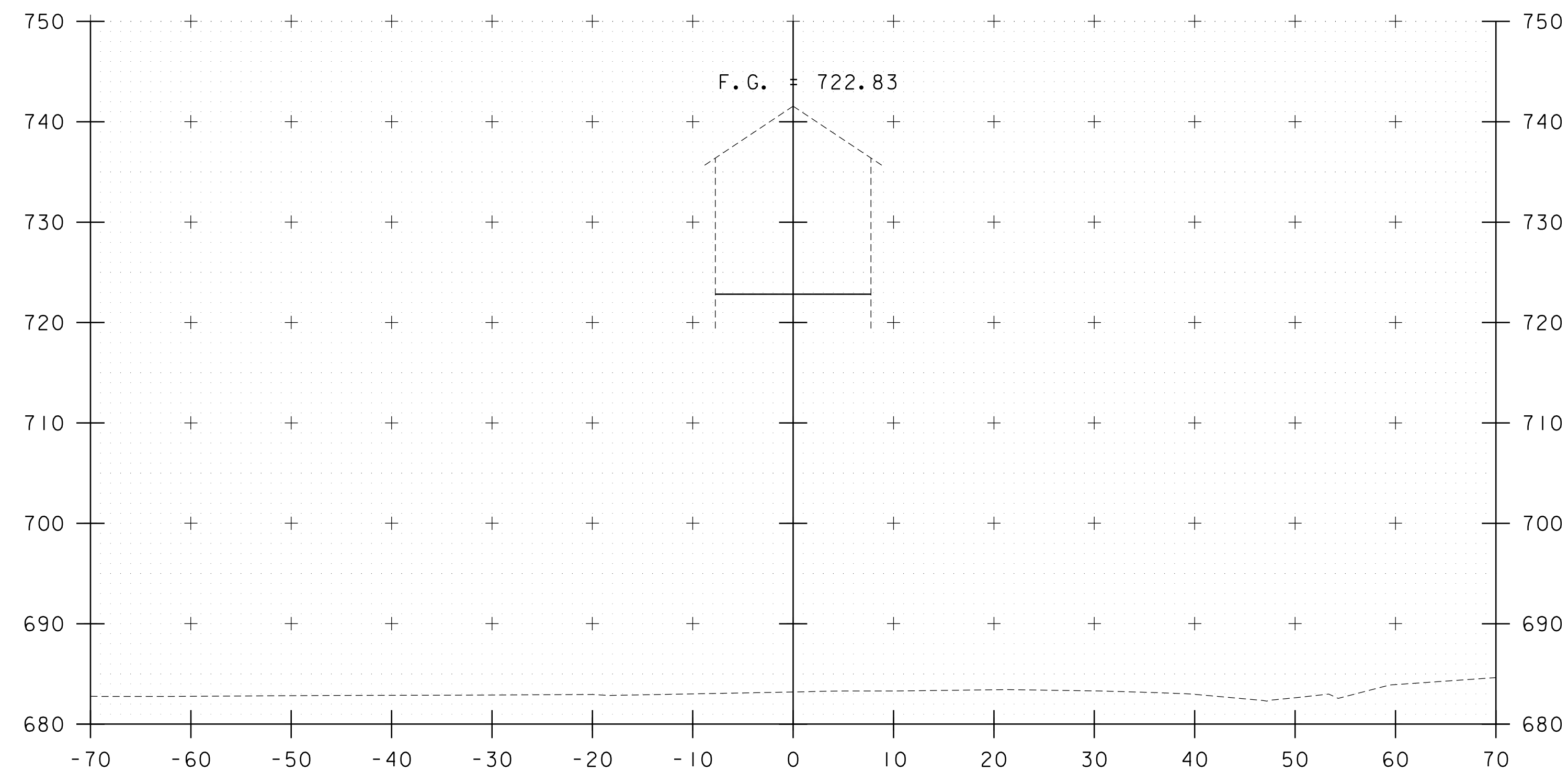
14+00



14+50



13+75



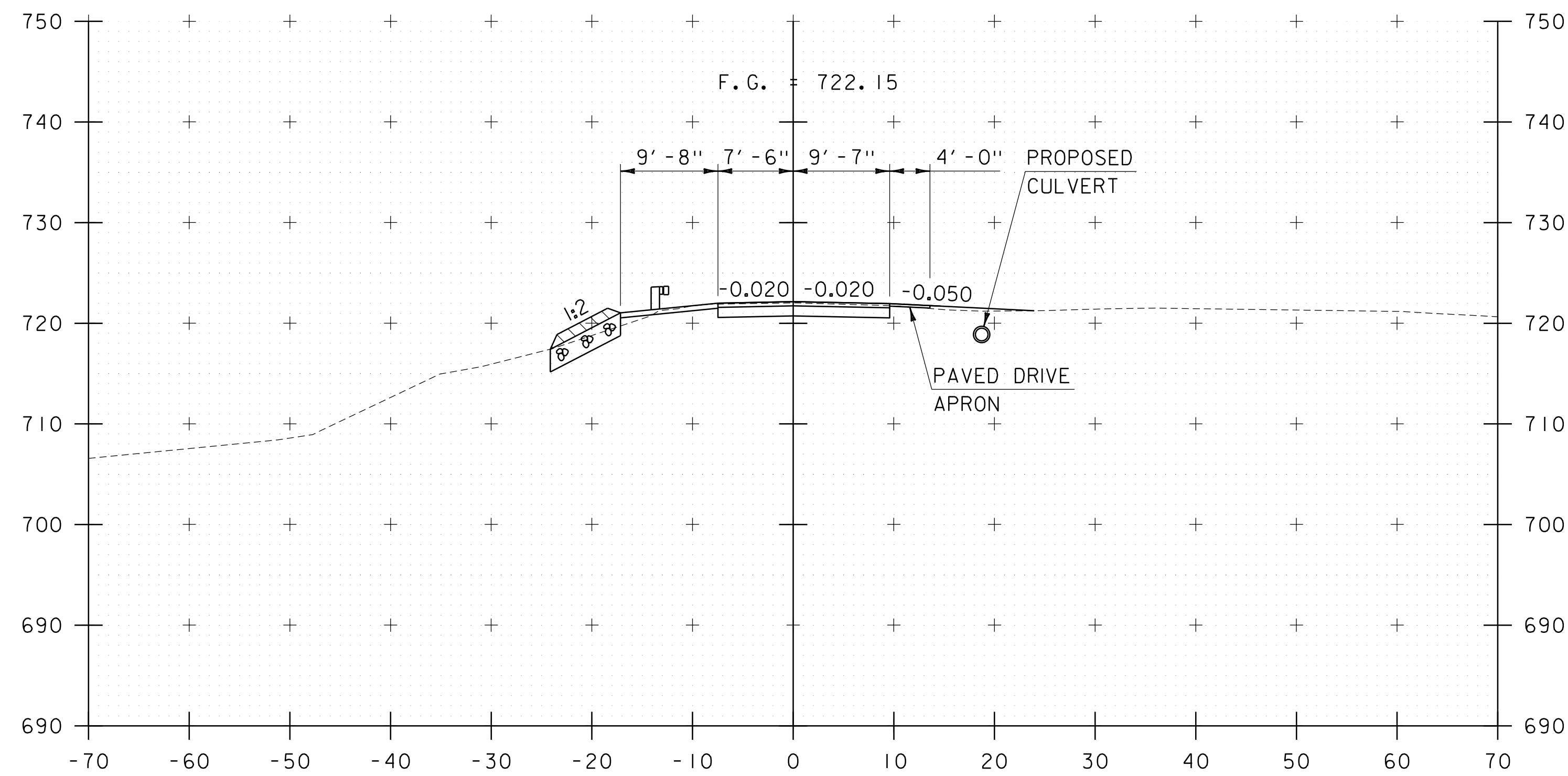
14+25



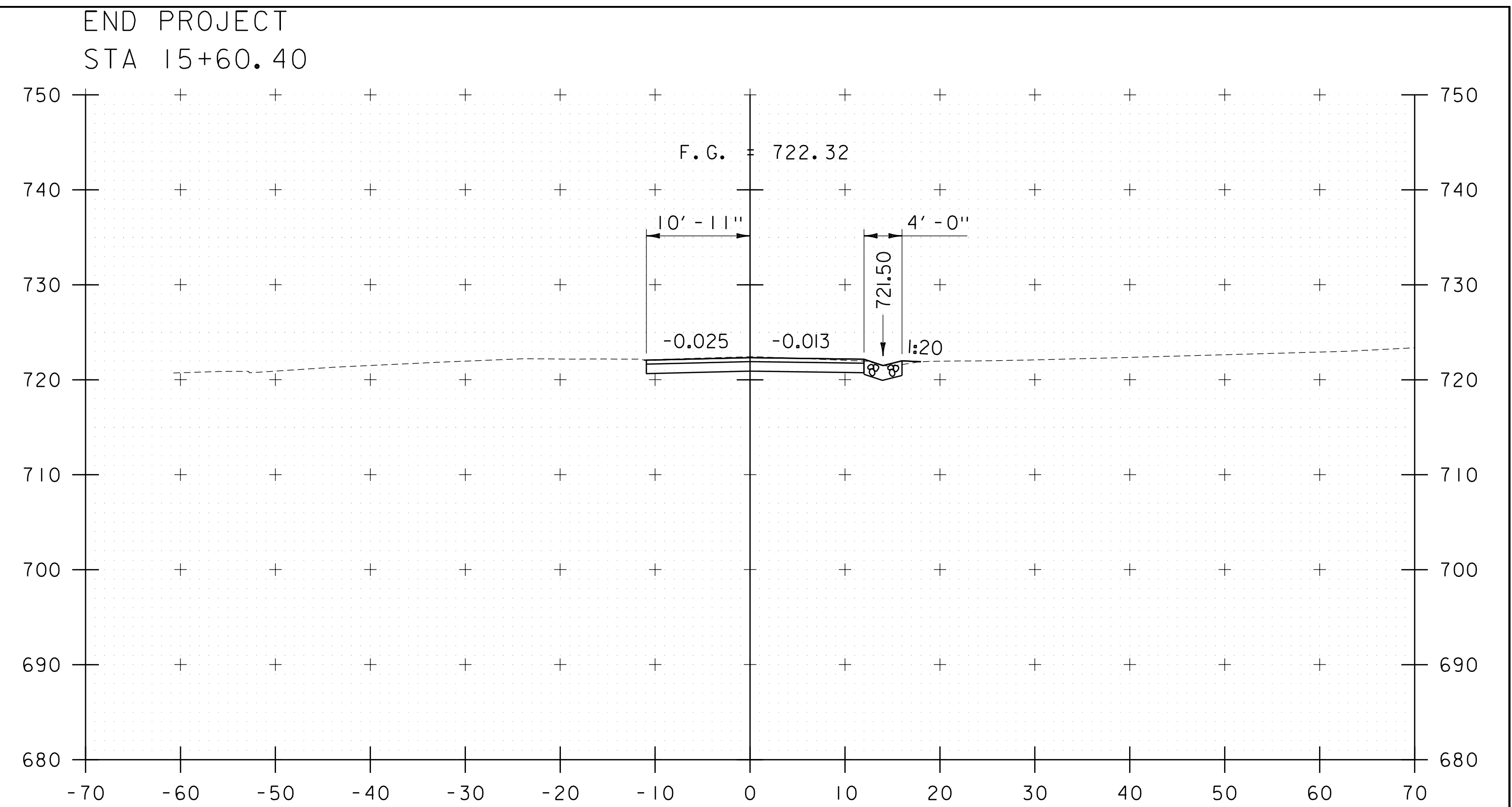
PROJECT NAME: CLARENDON  
PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228xsl.dgn  
PROJECT LEADER: J.BICJA  
DESIGNED BY: K.WELCH  
ROADWAY CROSS SECTIONS 3

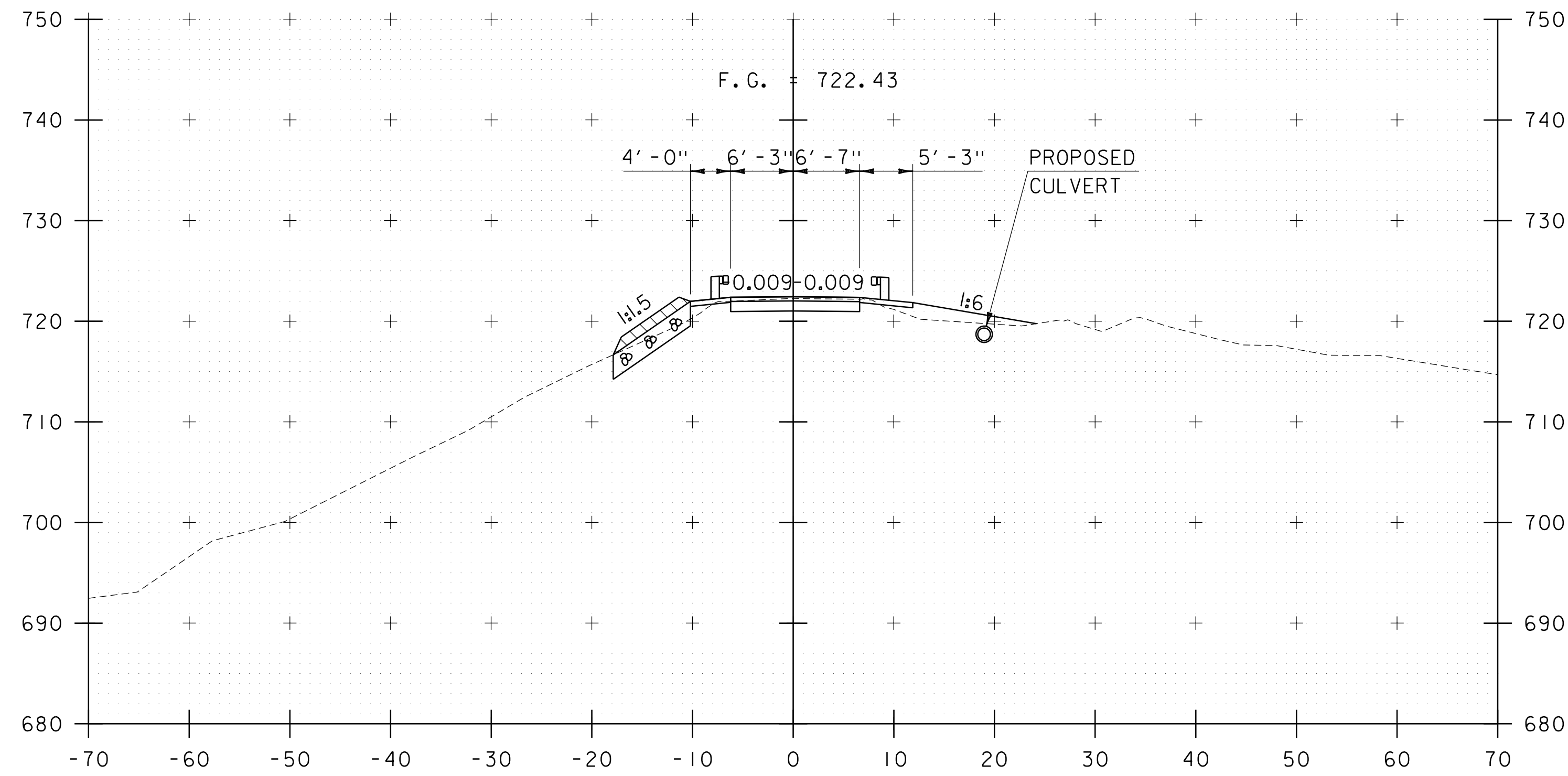
PLOT DATE: 1/12/2022  
DRAWN BY: K.WELCH  
CHECKED BY: J.BICJA  
SHEET 21 OF 27



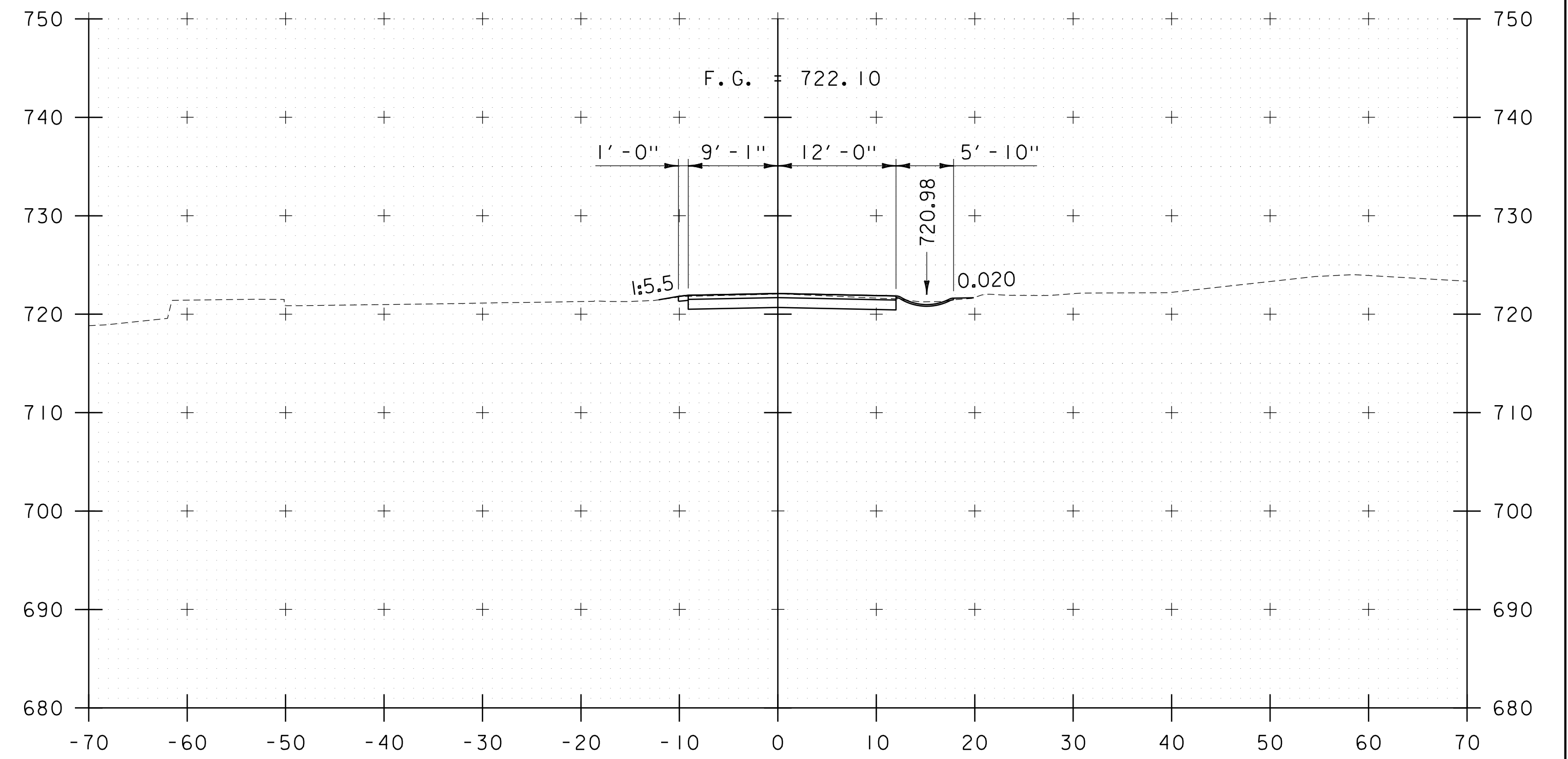
15+00



15+50



14+75



15+25

END BRIDGE  
STA 14+59.68

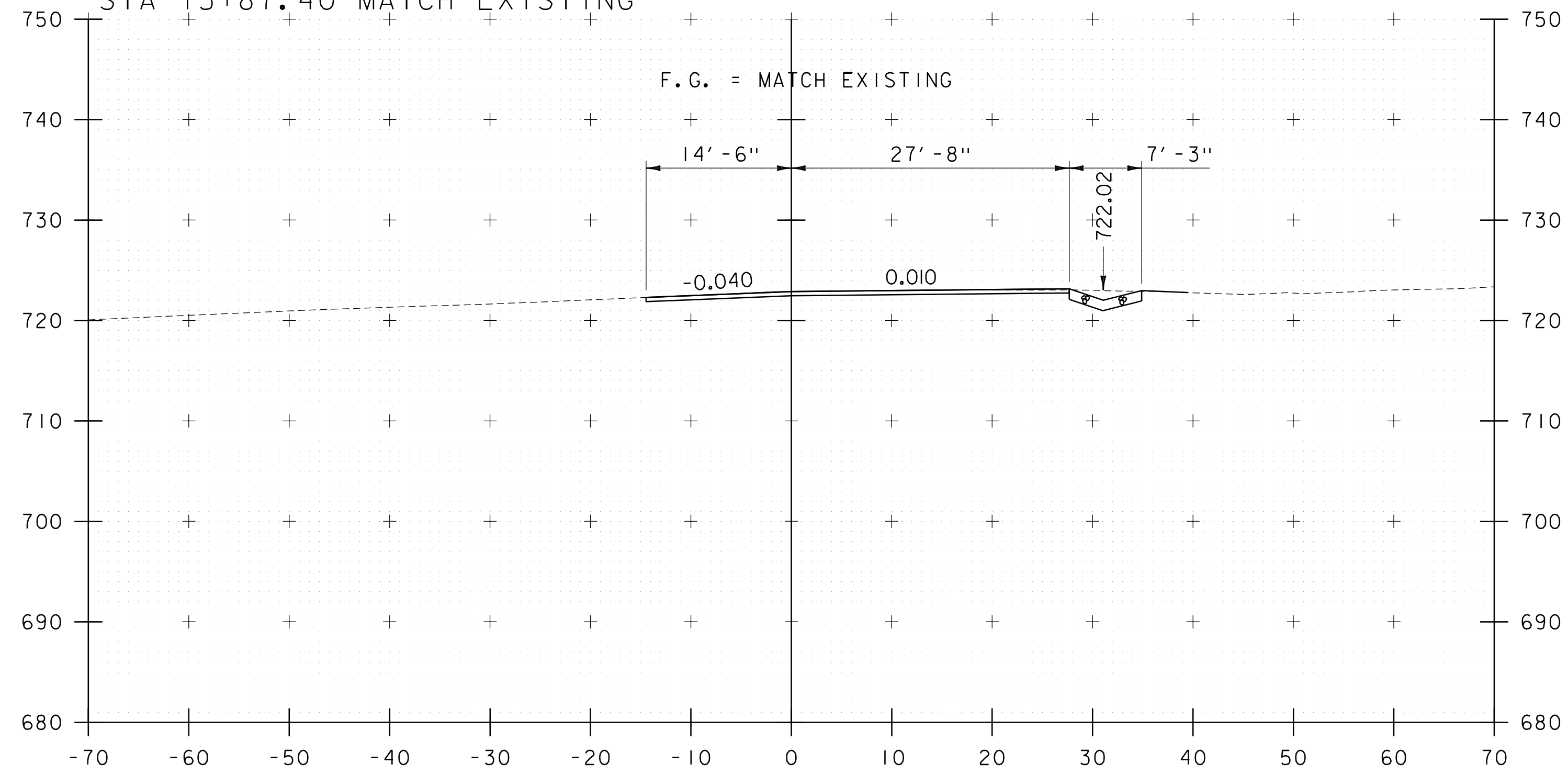


PROJECT NAME: CLARENDON  
PROJECT NUMBER: BO 1443(55)

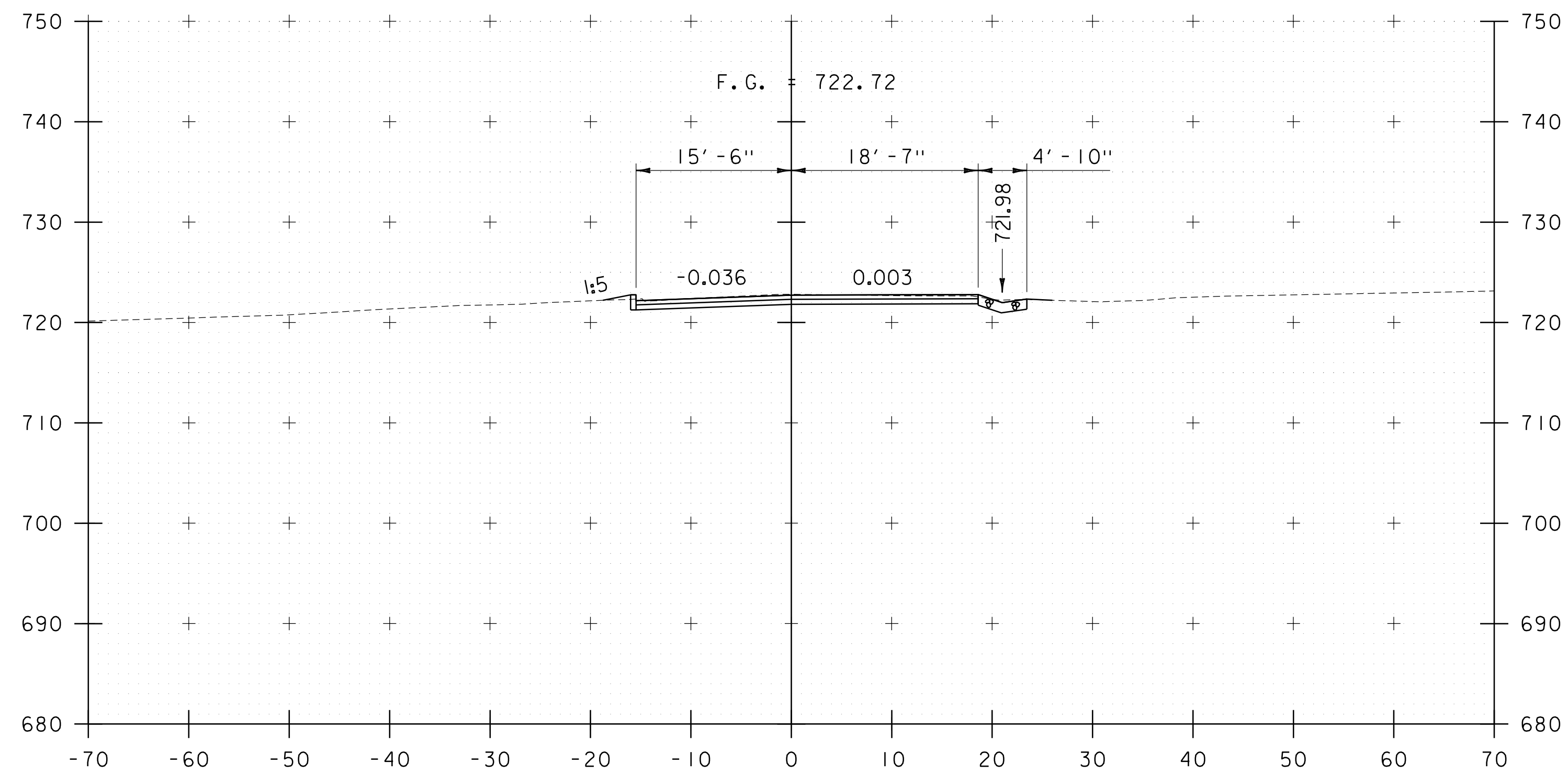
FILE NAME: z19j228xsl.dgn  
PROJECT LEADER: J.BICJA  
DESIGNED BY: K.WELCH  
ROADWAY CROSS SECTIONS 4

PLOT DATE: 1/12/2022  
DRAWN BY: K.WELCH  
CHECKED BY: J.BICJA  
SHEET 22 OF 27

END APPROACH  
 STA 15+87.40 MATCH EXISTING



15+85



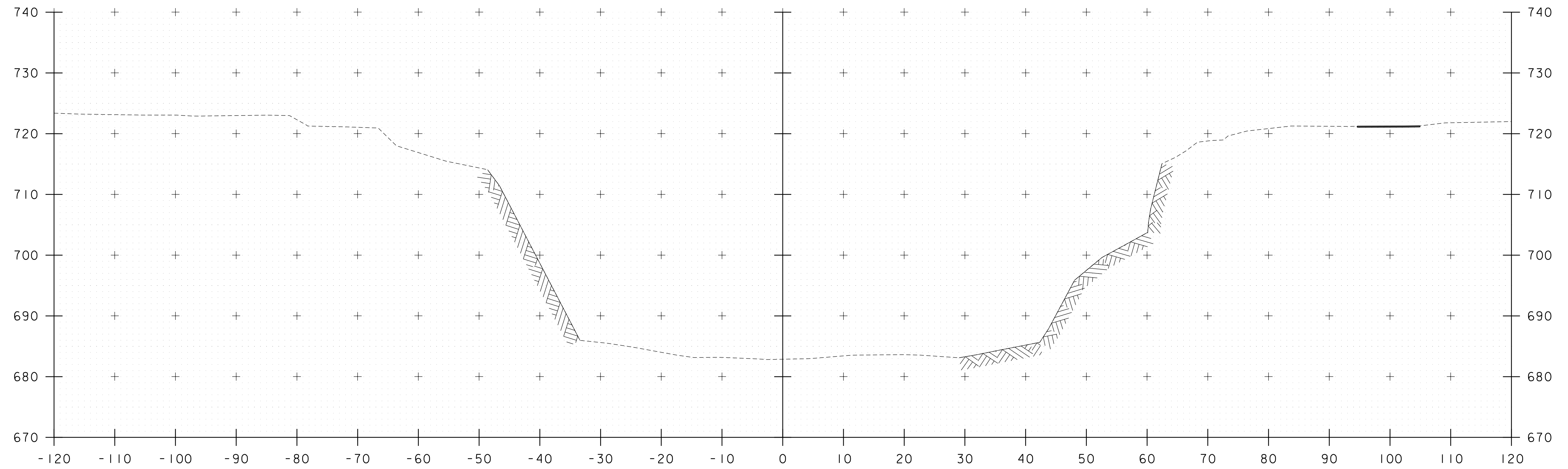
15+75

PROJECT NAME: CLARENDON  
 PROJECT NUMBER: BO 1443(55)

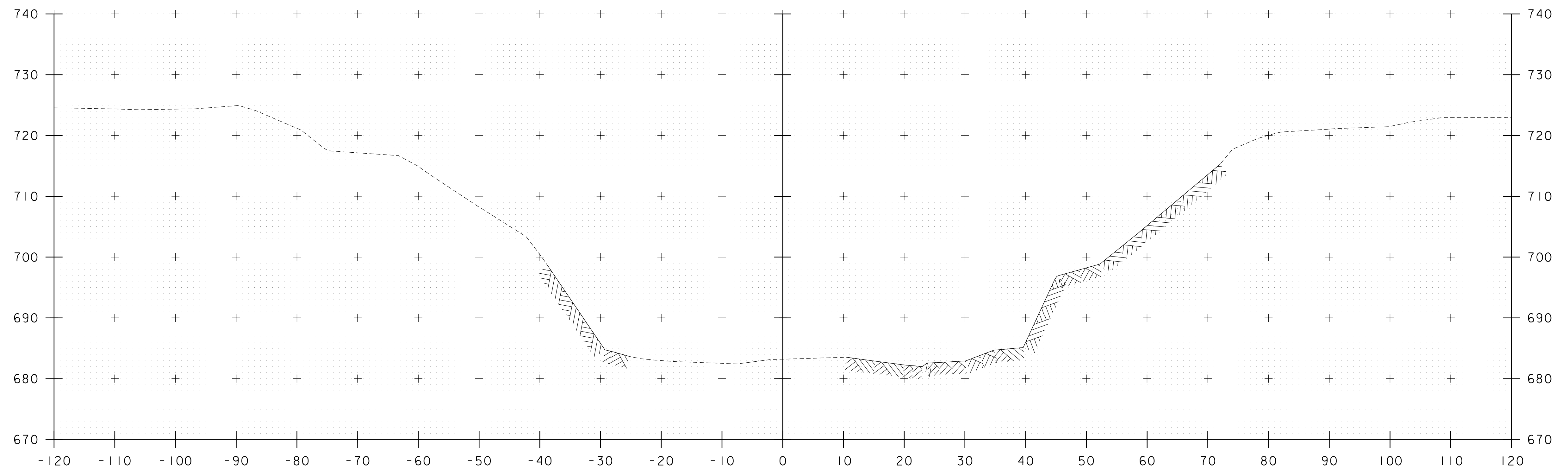
FILE NAME: z19j228xsl.dgn  
 PROJECT LEADER: J.BICJA  
 DESIGNED BY: K.WELCH  
 ROADWAY CROSS SECTIONS 5

PLOT DATE: 1/12/2022  
 DRAWN BY: K.WELCH  
 CHECKED BY: J.BICJA  
 SHEET 23 OF 27





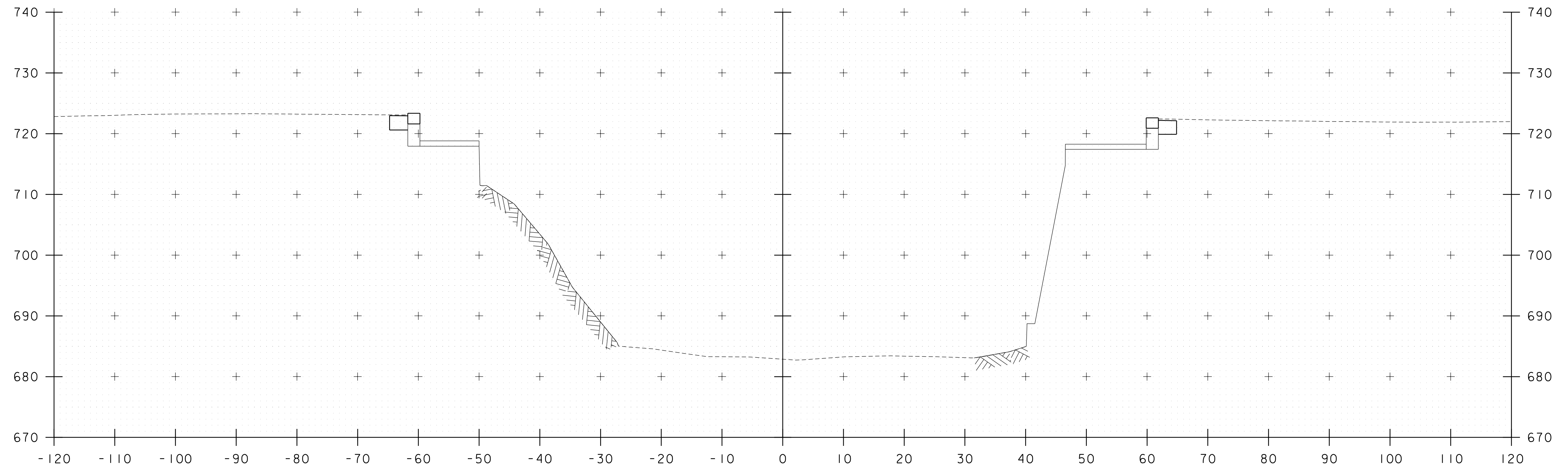
51+25



51+00



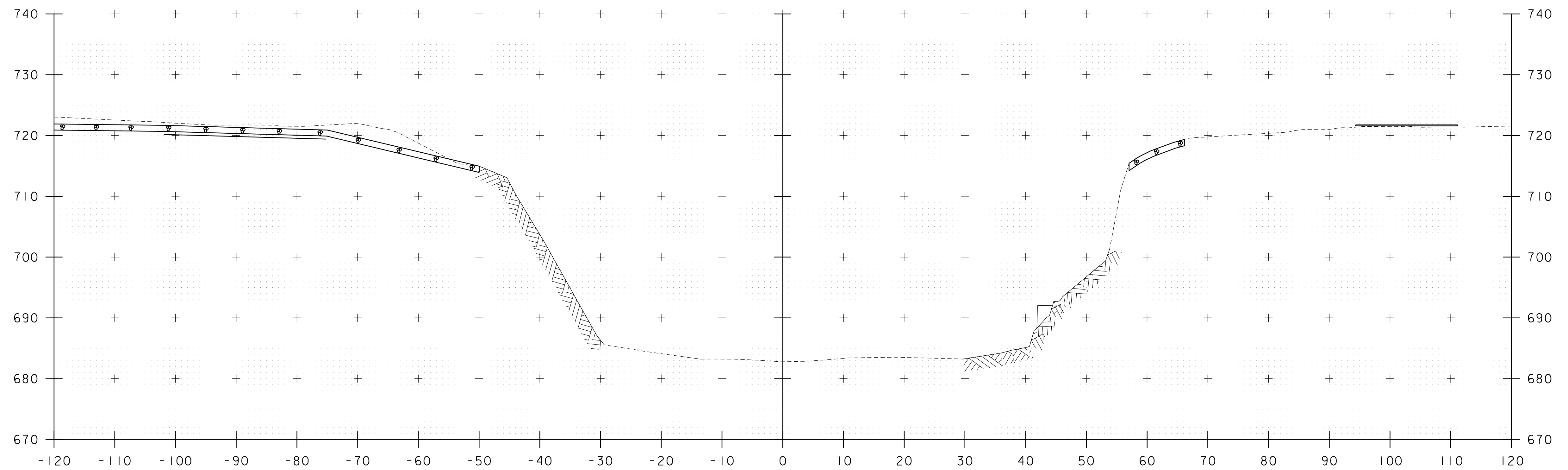
PROJECT NAME:	CLARENDON	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	DRAWN BY:	K.WELCH
FILE NAME:	z19j228xs2.dgn	CHECKED BY:	J.BICJA
PROJECT LEADER:	J.BICJA	SHEET	24 OF 27
DESIGNED BY:	K.WELCH		
CHANNEL CROSS SECTIONS I			



STA 51+43, BEGIN GRANULAR BACKFILL FOR STRUCTURES, LT  
 STA 51+40, END STONE FILL, TYPE I, LT

STA 51+43, BEGIN GRANULAR BACKFILL FOR STRUCTURES, RT  
 STA 51+37, END STONE FILL, TYPE I, RT

51+45



STA 51+28, BEGIN STONE FILL, TYPE I, LT

STA 51+27, BEGIN STONE FILL, TYPE I, RT

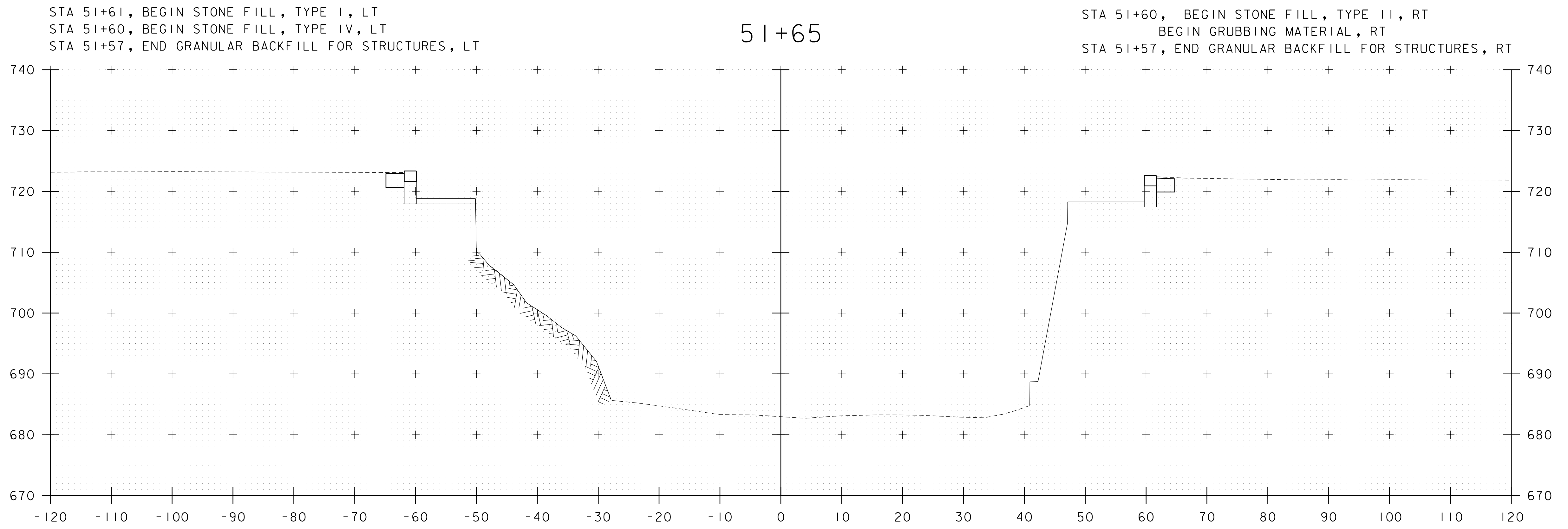
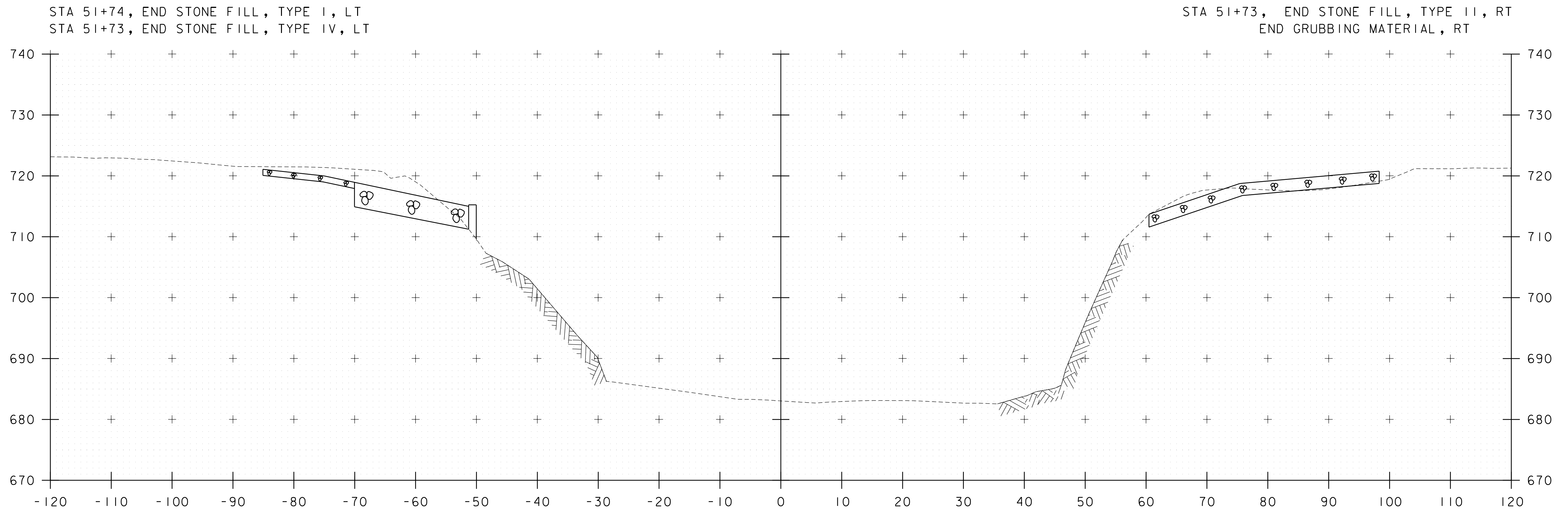
51+35



PROJECT NAME: CLARENDON  
 PROJECT NUMBER: BO 1443(55)

FILE NAME: z19j228xs2.dgn  
 PROJECT LEADER: J.BICJA  
 DESIGNED BY: K.WELCH  
 CHANNEL CROSS SECTIONS 2

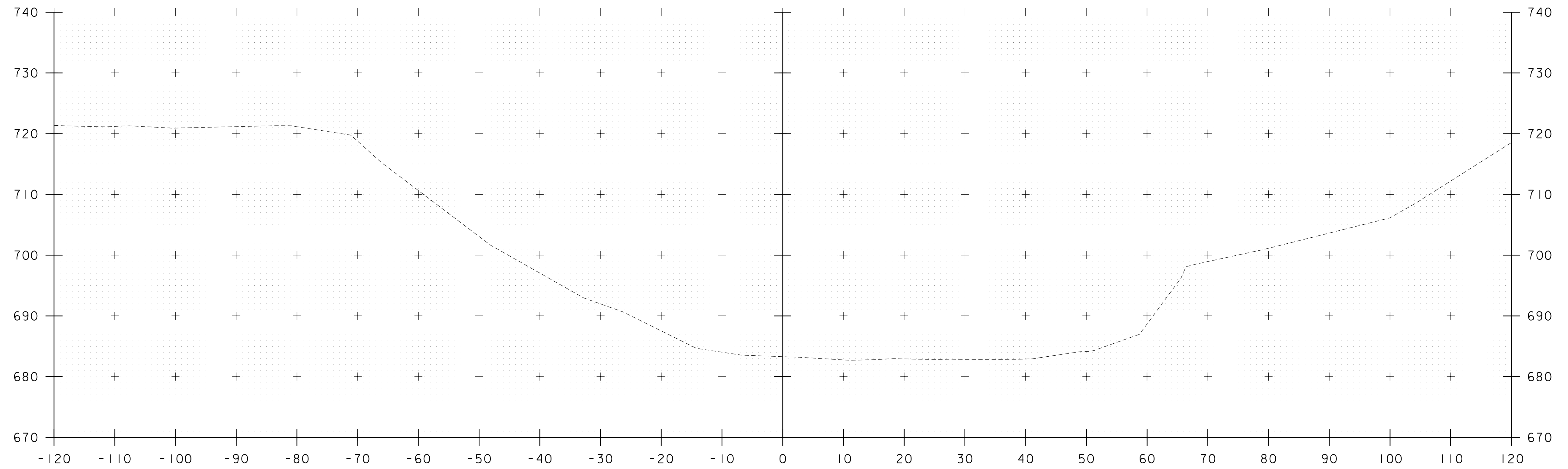
PLOT DATE: 1/12/2022  
 DRAWN BY: K.WELCH  
 CHECKED BY: J.BICJA  
 SHEET 25 OF 27



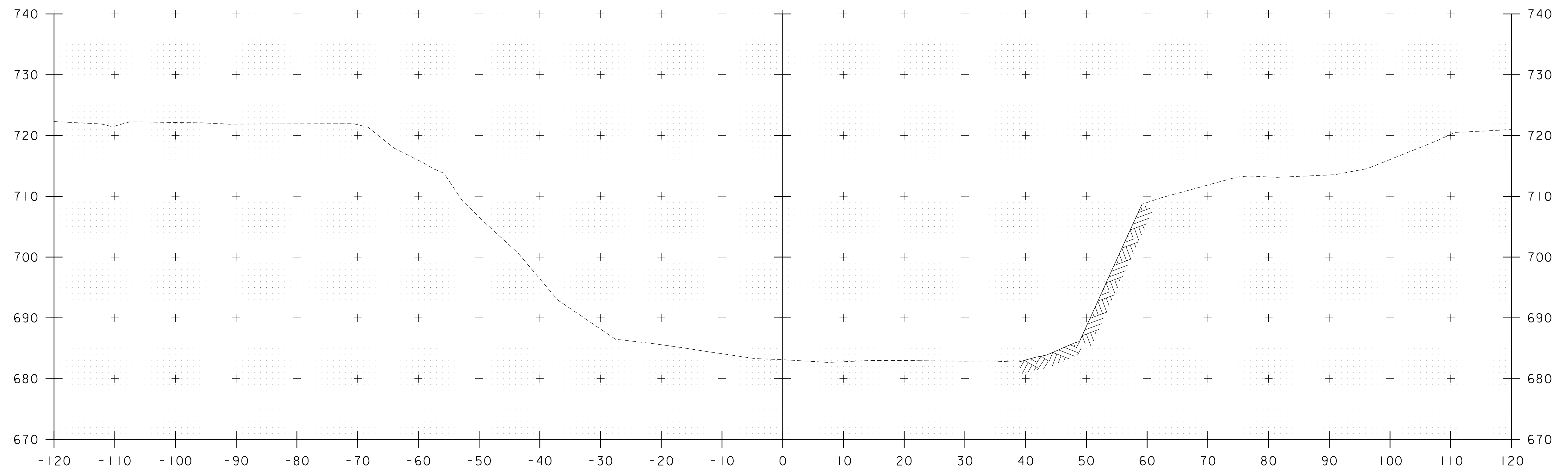
PROJECT NAME:	CLARENDON	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	DRAWN BY:	K.WELCH
FILE NAME:	z19j228xs2.dgn	CHECKED BY:	J.BICJA
PROJECT LEADER:	J.BICJA	SHEET	26 OF 27
DESIGNED BY:	K.WELCH		
CHANNEL CROSS SECTIONS	3		







52+00



51+75



PROJECT NAME:	CLARENDON	PLOT DATE:	1/12/2022
PROJECT NUMBER:	BO 1443(55)	DRAWN BY:	K.WELCH
FILE NAME:	z19j228xs2.dgn	CHECKED BY:	J.BICJA
PROJECT LEADER:	J.BICJA	SHEET	27 OF 27
DESIGNED BY:	K.WELCH		
CHANNEL CROSS SECTIONS	4		