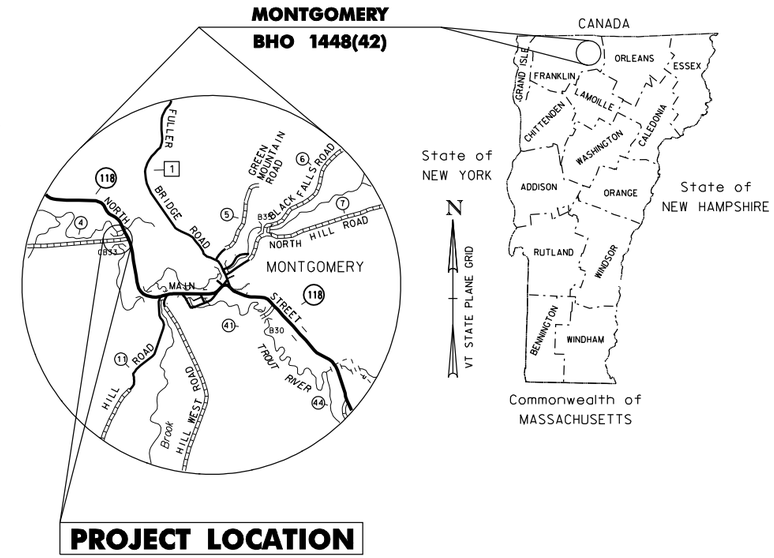
SEE SHEET 2 FOR INDEX OF SHEETS
AND STANDARDS LIST

STATE OF VERMONT
AGENCY OF TRANSPORTATION

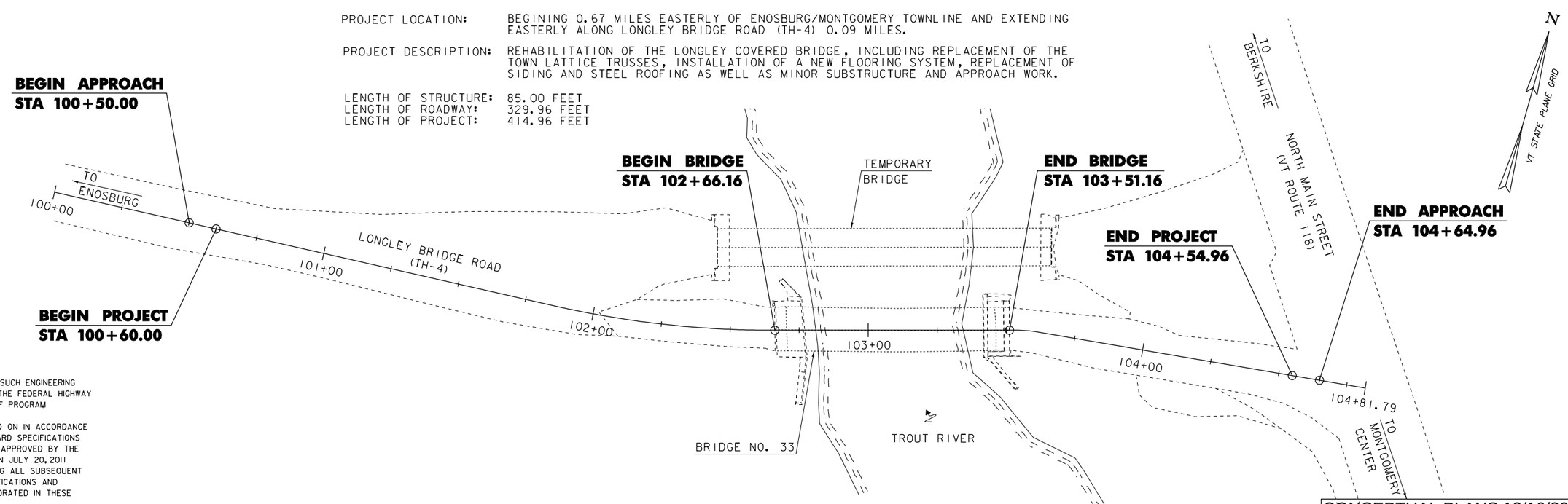


PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF MONTGOMERY
COUNTY OF FRANKLIN
LONGLEY BRIDGE ROAD (TH-4, CLASS 3)
BRIDGE NO. 33

PROJECT LOCATION: BEGINING 0.67 MILES EASTERLY OF ENOSBURG/MONTGOMERY TOWNLINE AND EXTENDING EASTERLY ALONG LONGLEY BRIDGE ROAD (TH-4) 0.09 MILES.

PROJECT DESCRIPTION: REHABILITATION OF THE LONGLEY COVERED BRIDGE, INCLUDING REPLACEMENT OF THE TOWN LATTICE TRUSSES, INSTALLATION OF A NEW FLOORING SYSTEM, REPLACEMENT OF SIDING AND STEEL ROOFING AS WELL AS MINOR SUBSTRUCTURE AND APPROACH WORK.

LENGTH OF STRUCTURE: 85.00 FEET
LENGTH OF ROADWAY: 329.96 FEET
LENGTH OF PROJECT: 414.96 FEET



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

CONCEPTUAL PLANS 12/16/2014

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : VERMONT SURVEY & ENG. INC.
SURVEYED DATE : 6-30-2014

DATUM
VERTICAL NAVD 88 FT
HORIZONTAL NAD 83 (2011) sFT

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

Hoyle, Tanner & Associates, Inc.
125 College St. 4th Floor Burlington, VT 05401
Telephone: 802-860-1331 Fax: 802-860-6499
Web Page: www.hoyletanner.com

HTA PROJECT NO.	MODEL
904227	z12j352title

DIRECTOR OF PROJECT DELIVERY
APPROVED _____ DATE _____

PROJECT MANAGER : M. SARGENT

PROJECT NAME : MONTGOMERY
PROJECT NUMBER : BHO 1448 (42)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET

INDEX OF SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	CONVENTIONAL SYMBOLOGY LEGEND
4	TYPICAL PORTAL ELEVATIONS
5	TYPICAL BRIDGE SECTIONS
6	RIGHT-OF-WAY PLAN
7	TYPICAL ROADWAY SECTIONS
8	LAYOUT SHEET
9	TH-4 PROFILE SHEET
10	TH-4 CROSS SECTION SHEET 1
11	TH-4 CROSS SECTION SHEET 2
12	TH-4 CROSS SECTION SHEET 3
13	TH-4 CROSS SECTION SHEET 4
14	CHANNEL CROSS SECTION SHEET 1
15	CHANNEL CROSS SECTION SHEET 2
16	CHANNEL CROSS SECTION SHEET 3
17	RESOURCE SITE PLAN

INDEX OF STANDARDS

B-5	SLOPE GRADING	6/1/1994
D-15	PRECAST REINF. CONC. CB-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	6/1/1994
E-121	STANDARD SIGN PLACEMENT-CONVENTIONAL ROAD	8/8/1995
E-141	REGULATORY SIGN DETAILS	9/20/1995
E-143	REGULATORY SIGN DETAILS	6/1/1994
E-154	WARNING SIGN DETAILS	5/1/2004
E-155	WARNING SIGN DETAILS	5/1/2004
T-45	SQUARE TUBE SIGN POST AND ANCHOR	1/2/2013

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date:

DRAINAGE AREA :
CHARACTER OF TERRAIN :
STREAM CHARACTERISTICS :
NATURE OF STREAMBED :

PEAK FLOW DATA

Q 2.33 = Q 50 =
Q 10 = Q 100 =
Q 25 = Q 500 =

DATE OF FLOOD OF RECORD :
ESTIMATED DISCHARGE:
WATER SURFACE ELEV.:
NATURAL STREAM VELOCITY :
ICE CONDITIONS :
DEBRIS:
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY?
IS ORDINARY RISE RAPID?
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
IF YES, DESCRIBE:

WATERSHED STORAGE: HEADWATERS:
UNIFORM:
IMMEDIATELY ABOVE SITE:

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Town Lattice Timber Covered Bridge
YEAR BUILT: 1863
CLEAR SPAN (NORMAL TO STREAM): 66'-11"
VERTICAL CLEARANCE ABOVE STREAMBED: 16' +/-
WATERWAY OF FULL OPENING: 967 sq. ft.
DISPOSITION OF STRUCTURE: REHABILITATE
TYPE OF MATERIAL UNDER SUBSTRUCTURE: LEDGE AND GRAVEL

WATER SURFACE ELEVATIONS AT:

Q2.33 = VELOCITY =
Q10 = "
Q25 = 448.1 "
Q50 = "
Q100 = "

LONG TERM STREAMBED CHANGES:

IS THE ROADWAY OVERTOPPED BELOW Q100:
FREQUENCY:
RELIEF ELEVATION:
DISCHARGE OVER ROAD @Q100: None

UPSTREAM STRUCTURE

TOWN: DISTANCE:
HIGHWAY # : STRUCTURE #:
CLEAR SPAN: CLEAR HEIGHT:
YEAR BUILT: FULL WATERWAY:
STRUCTURE TYPE:

DOWNSTREAM STRUCTURE

TOWN: DISTANCE:
HIGHWAY # : STRUCTURE #:
CLEAR SPAN: CLEAR HEIGHT:
YEAR BUILT: FULL WATERWAY:
STRUCTURE TYPE:

WORKING STRESS LOAD RATING (TONS)

LOADING LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY	20	-					
POSTED	20	-	-		-	-	-
OPERATING		-	-	-	-	-	

COMMENTS: BOTTOM CHORD AND LATTICE CONTROL THE LOAD RATING

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2014	<40	<10	NA	NA	NA
2034	<40	<10	NA	NA	NA

20 year ESAL for flexible pavement from 2014 to 2034 : <50,000
40 year ESAL for flexible pavement from 2014 to 2054 : <50,000
Design Speed : 10 mph

PROPOSED STRUCTURE

STRUCTURE TYPE: REHABILITATED COVERED BRIDGE

CLEAR SPAN (NORMAL TO STREAM): 66'-11"
VERTICAL CLEARANCE ABOVE STREAMBED: 16' +/-
WATERWAY OF FULL OPENING: 967 sq. ft.

WATER SURFACE ELEVATIONS AT:

Q2.33 = VELOCITY=
Q10 = "
Q25 = 448.1 "
Q50 = "
Q100 = "

IS THE ROADWAY OVERTOPPED BELOW Q100:
FREQUENCY:
RELIEF ELEVATION:
DISCHARGE OVER ROAD @Q100:

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE:
VERTICAL CLEARANCE:

SCOUR:

REQUIRED CHANNEL PROTECTION:

PERMIT INFORMATION

AVERAGE DAILY FLOW: DEPTH OR ELEVATION:
ORDINARY LOW WATER: Depth =
ORDINARY HIGH WATER: Depth =

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: SINGLE SPAN BRIDGE PRESENT
CLEAR SPAN (NORMAL TO STREAM): 112'-10"
VERTICAL CLEARANCE ABOVE STREAMBED: 18+/-
WATERWAY AREA OF FULL OPENING: 1274 sq. ft.

ADDITIONAL INFORMATION

DESIGN CRITERIA

1. DESIGN LIVE LOAD AASHTO H20
2. DESIGN SPAN 66'-11"
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A
   ON LEDGE N/A
4. ALLOWABLE LOAD FOR PILING N/A
   TYPE N/A
   ESTIMATED LENGTH N/A
5. STRUCTURAL STEEL AASHTO M270M/M270 GRADE N/A
6. REINFORCING STEEL GRADE 60
7. CONCRETE, HIGH PERFORMANCE CLASS A f'c: 4000 PSI
   CONCRETE, HIGH PERFORMANCE CLASS B f'c: 3500 PSI
8. DESIGN SOIL UNIT WEIGHT 140 PCF
9. DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL N/A

TRAFFIC MAINTENANCE

1. IS TRAFFIC TO BE MAINTAINED? YES ON EXISTING TEMPORARY BRIDGE
   IF YES, ON EXISTING STRUCTURE? NO
   OR ON TEMPORARY BRIDGE? YES
   ONE OR TWO-WAY TRAVEL? ONE LANE ALTERNATING TRAFFIC
2. TRAFFIC CONTROL SIGNALS REQUIRED? NO
3. ARE SIDEWALKS REQUIRED? NO
   IF SO, ON WHAT SIDE? -

PROJECT NAME: **MONTGOMERY**
PROJECT NUMBER: **BHO 1448(42)**

FILE NAME: **z12j352forms.xls** PLOT DATE: **12/16/14**
PROJECT MANAGER: **M. SARGENT** DRAWN BY: **P. DUSTIN**
DESIGNED BY: **W. DURACK** CHECKED BY: **J. BICJA**
PRELIMINARY INFORMATION SHEET SHEET **2** OF **17**

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY 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. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

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

POINT	CODE	DESCRIPTION
	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
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⊡	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
◎	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 VALUE
	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 RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

UGU	UTILITY (GENERIC-UNKNOWN)
UT	TELEPHONE
UE	ELECTRIC
UTV	CABLE (TV)
UEC	ELECTRIC+CABLE
UET	ELECTRIC+TELEPHONE
UCT	CABLE+TELEPHONE
UECT	ELECTRIC+CABLE+TELEP.
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+TELEP.
	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

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	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
	TREE PROTECTION ZONE (TPZ)
	STRIPING LINE REMOVAL
	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

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	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

	FILTER CURTAIN
	SILT FENCE
	SILT FENCE WOVEN WIRE
	CHECK DAM
	DISTURBED AREAS REQUIRING RE-VEGETATION
	EROSION MATTING

ENVIRONMENTAL RESOURCES

	WETLAND BOUNDARY
	RIPARIAN BUFFER ZONE
	WETLAND BUFFER ZONE
	SOIL TYPE BOUNDARY
T&E	THREATENED & ENDANGERED SPECIES
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
H	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

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

Hoyle, Tanner & Associates, Inc.

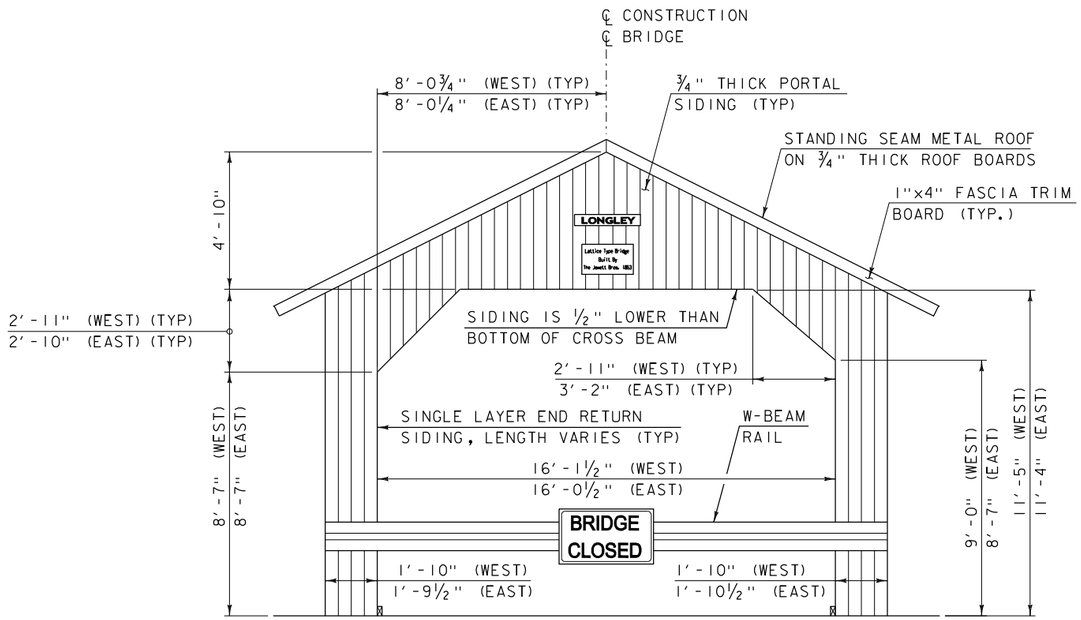
HTA PROJECT	MODEL
904227	zl2j352LegendSheet

PROJECT NAME: MONTGOMERY

PROJECT NUMBER: BHO 1448(42)

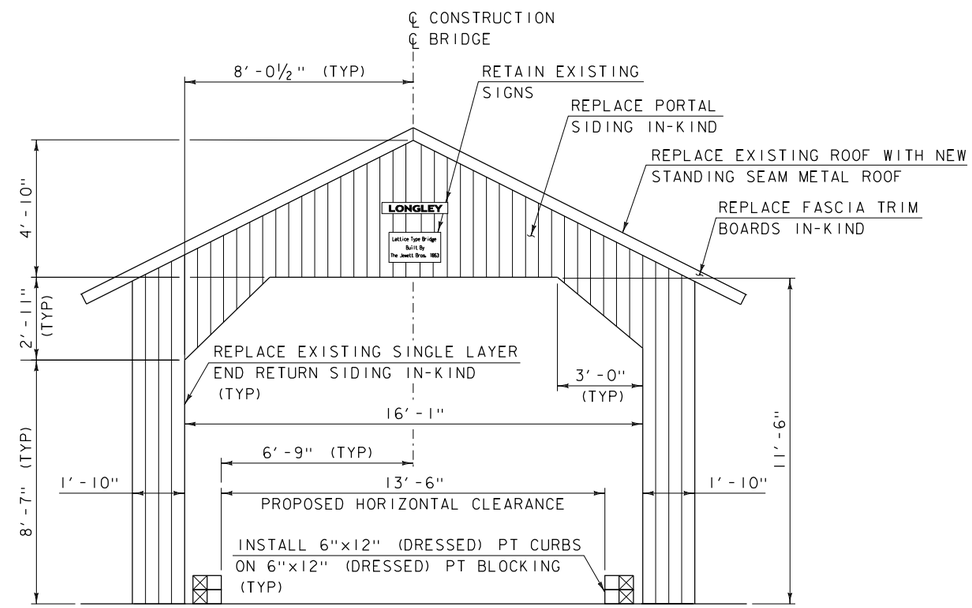
FILE NAME: zl2j352LegendSheet.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: W. DURACK
CONVENTIONAL SYMBOLOGY LEGEND

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 3 OF 17



EXISTING PORTAL ELEVATION
(LOOKING EAST)

(WEST PORTAL SHOWN, EAST PORTAL SIMILAR)
SCALE ⅜" = 1'-0"



PROPOSED PORTAL ELEVATION
(LOOKING EAST)

(WEST PORTAL SHOWN, EAST PORTAL SIMILAR)
SCALE ⅜" = 1'-0"

DIMENSIONS OF TIMBER AND LUMBER MEMBERS SHOWN ON THE PLANS ARE THE ACTUAL SIZES UNLESS NOTED OTHERWISE.

NOTE

1. APPLY FIRE RETARDANT AND INSECTICIDE/FUNGICIDE TO WOODEN BRIDGE MEMBERS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION SECTION 660.

LEGEND

PT PRESSURE TREATED

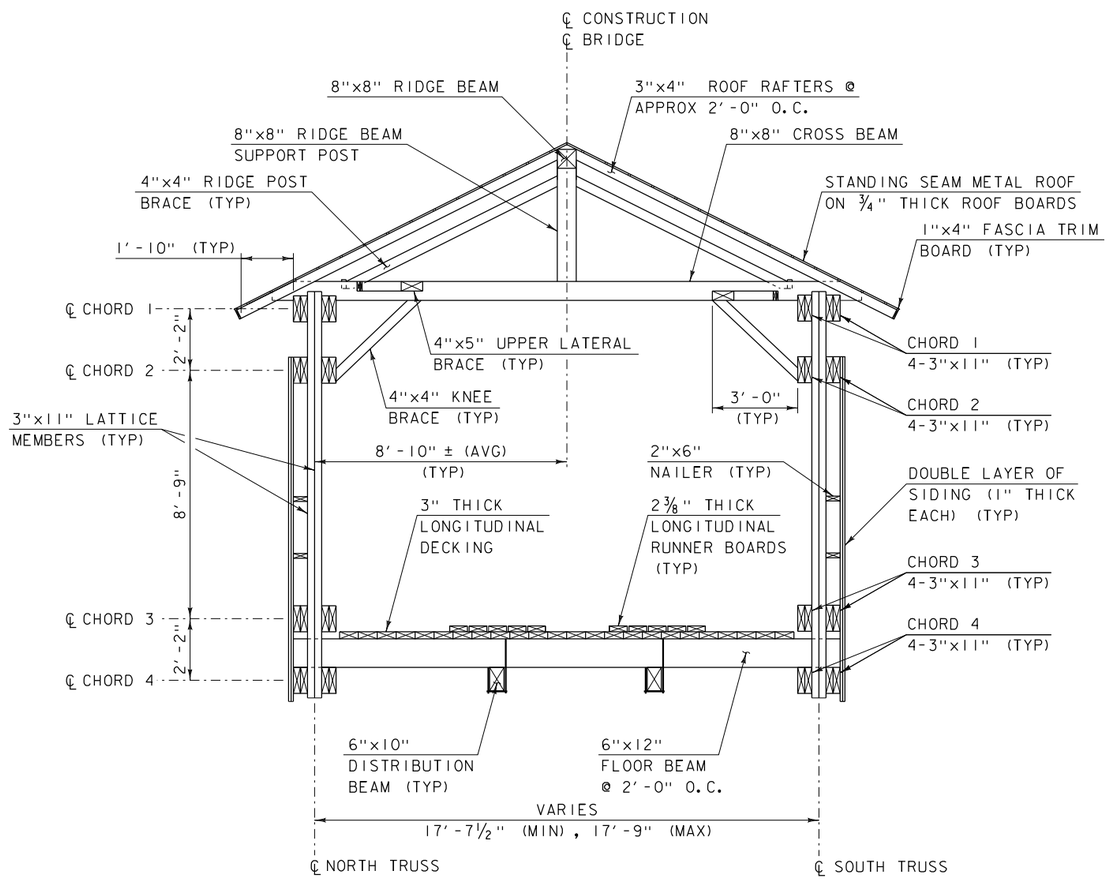
Hoyle, Tanner & Associates, Inc.

HTA PROJECT	MODEL
904227	z12j352supl

PROJECT NAME: MONTGOMERY
PROJECT NUMBER: BHO 1448(42)

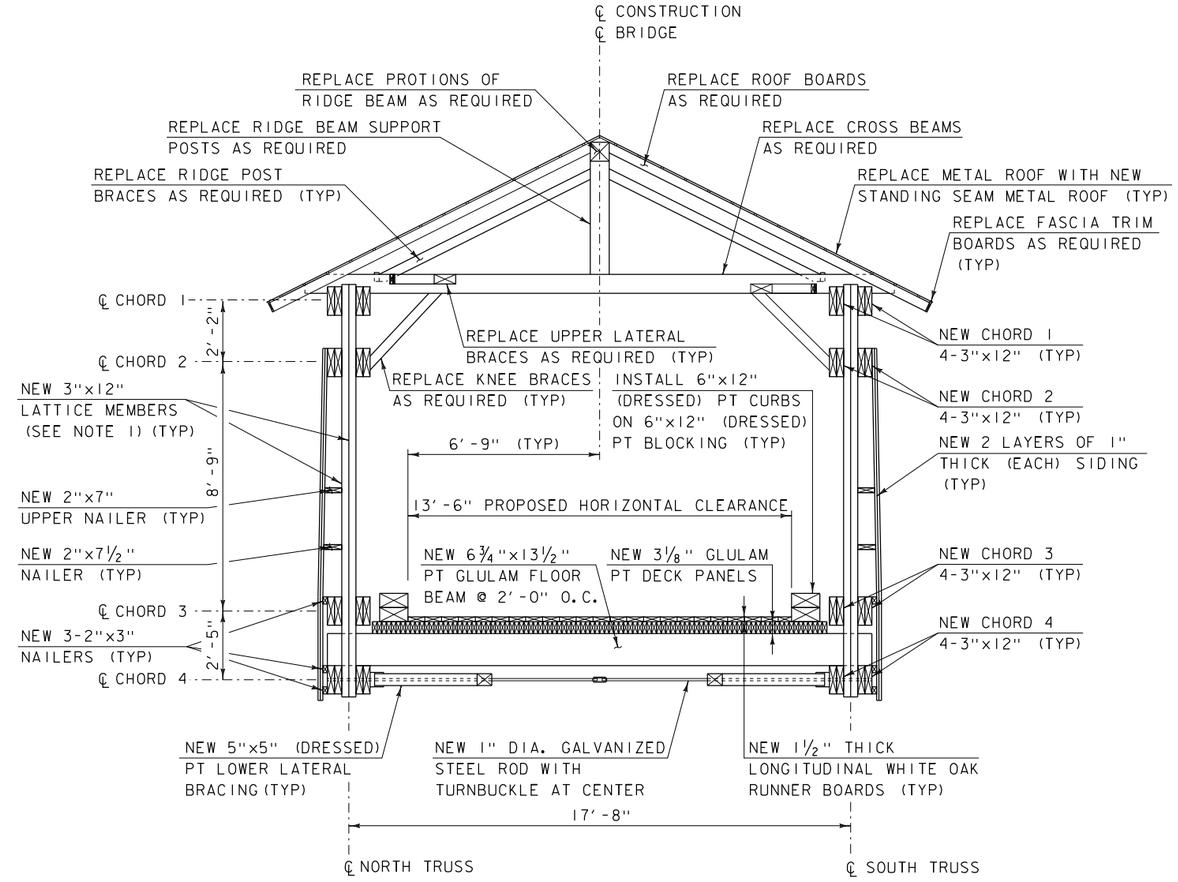
FILE NAME: z12j352supl.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: W. DURACK
TYPICAL PORTAL ELEVATIONS

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 4 OF 17



EXISTING TYPICAL BRIDGE SECTION

SCALE 3/8" = 1'-0"



PROPOSED TYPICAL BRIDGE SECTION

SCALE 3/8" = 1'-0"

DIMENSIONS OF TIMBER AND LUMBER MEMBERS SHOWN ON THE PLANS ARE THE ACTUAL SIZES UNLESS NOTED OTHERWISE.

NOTES

1. APPROXIMATELY 4 LATTICE MEMBERS ON EACH END OF TRUSSES, EACH DIRECTION, SHALL BE 4 1/2"x12" AND NOTCHED 1 1/2" AT EACH CHORD.
2. APPLY FIRE RETARDANT AND INSECTICIDE/FUNGICIDE TO WOODEN BRIDGE MEMBERS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION SECTION 660.

LEGEND

PT PRESSURE TREATED

Hoyle, Tanner & Associates, Inc.

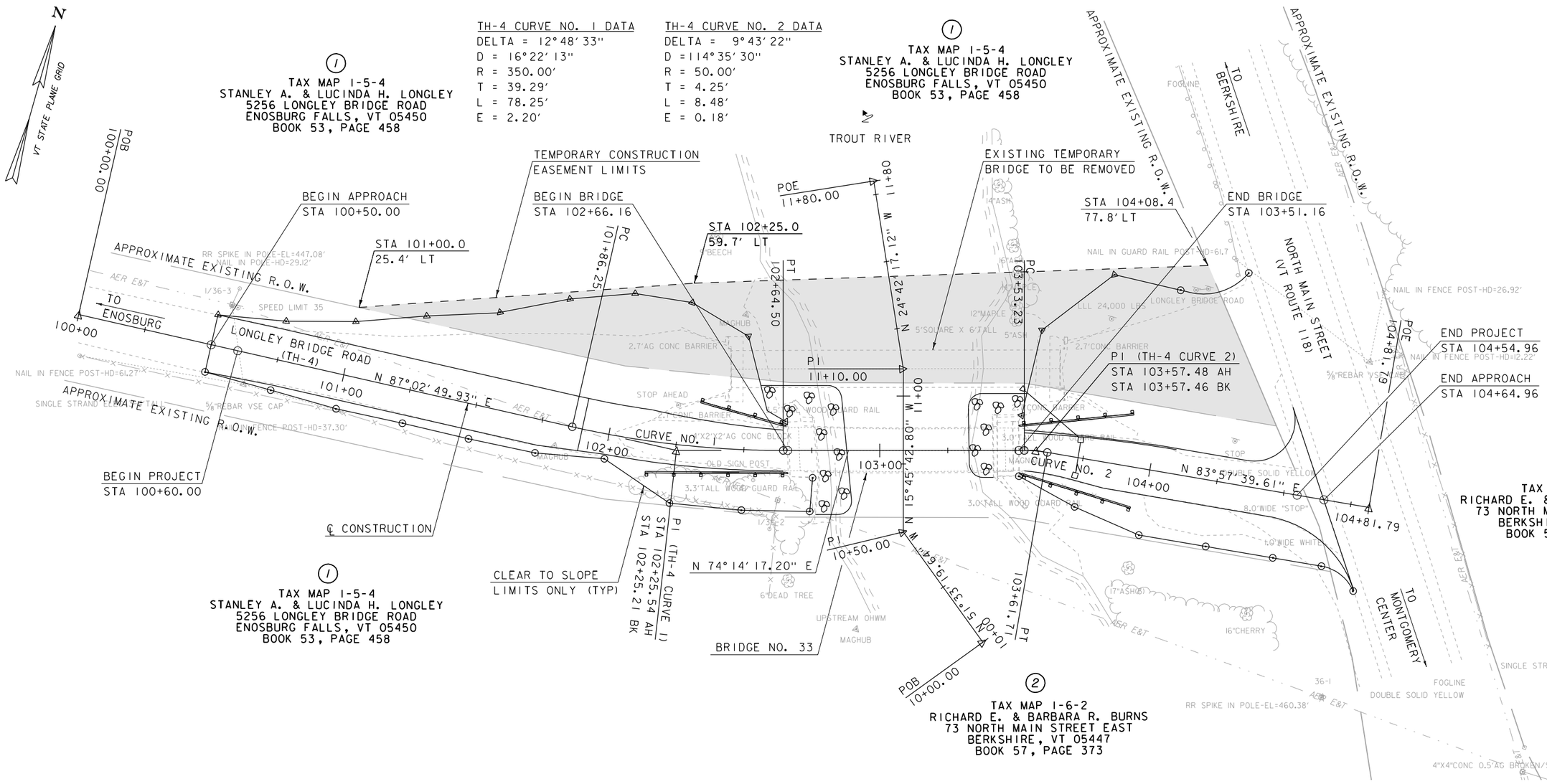
HTA PROJECT	MODEL
904227	zl2j352sup2

PROJECT NAME: MONTGOMERY
PROJECT NUMBER: BHO 1448(42)

FILE NAME: zl2j352sup2.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: W. DURACK
TYPICAL BRIDGE SECTIONS

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 5 OF 17

PARCEL NO	GRANTOR	SHEET NO	BEGIN STATION	END STATION	TAKING	REM	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	VOL	PG	REMARKS
1	LONGLEY, STANLEY A. & LUCINDA H.	6	101+00.0, LT. 25.4'	104+08.4, LT. 77.8'			DETOUR (T) 10756 S.F.±		8-9-2011	TOWN OF MONTGOMERY	53	458	TEMPORARY EASEMENT



LINES SHOWN ON THIS PLAN AS EXISTING R.O.W. ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF MONTGOMERY'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT

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

LEGEND

AREAS OF TEMPORARY CONSTRUCTION EASEMENT

DATUM	
VERTICAL	NAVD 88 FT
HORIZONTAL	NAD 83(2011) sFT
ADJUSTMENT	UNADJUSTED

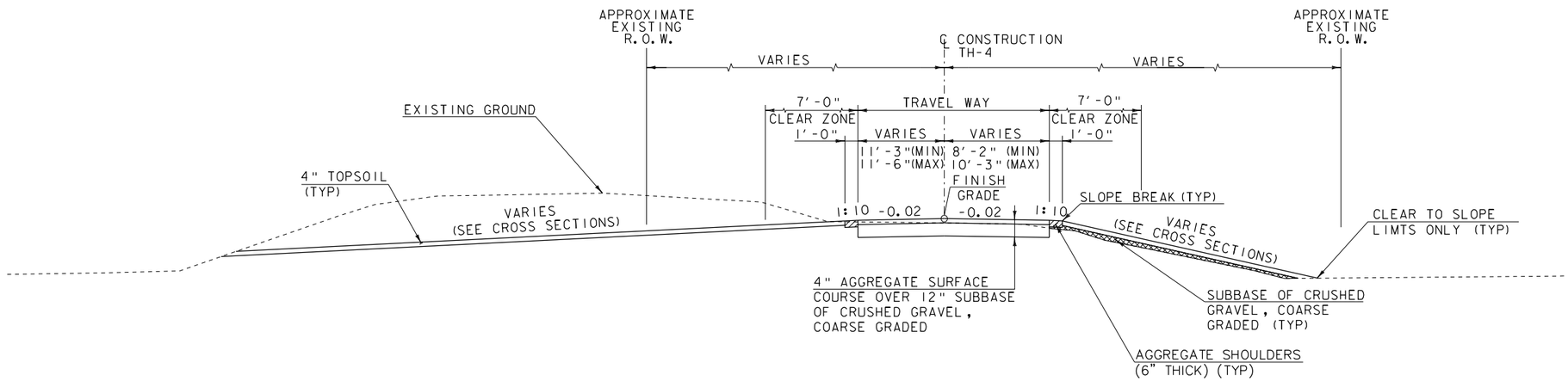
Hoyle, Tanner & Associates, Inc.

HTA PROJECT	MODEL
904227	z12j352row

PROJECT NAME: MONTGOMERY
PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352row.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: W. DURACK
RIGHT-OF-WAY PLAN

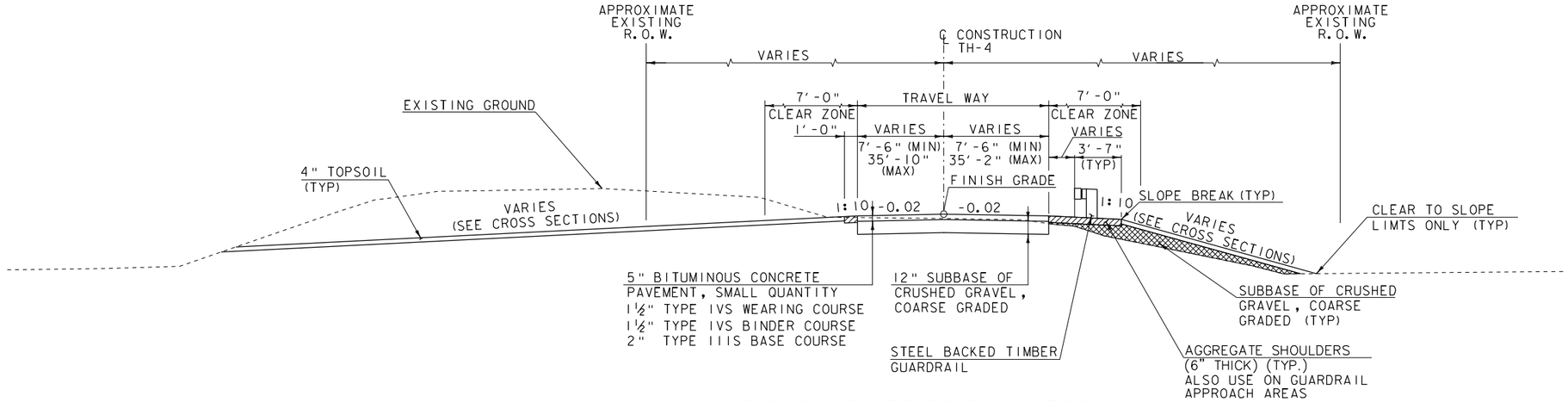
PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 6 OF 17



TYPICAL UNPAVED ROADWAY SECTION

STA 100+50.00 - 101+90.00

NOT TO SCALE



TYPICAL PAVED ROADWAY SECTION

STA 101+90.00 - 102+66.16

STA 103+51.16 - 104+64.96

NOT TO SCALE

MATERIAL TOLERANCES

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"

Hoyle, Tanner & Associates, Inc.

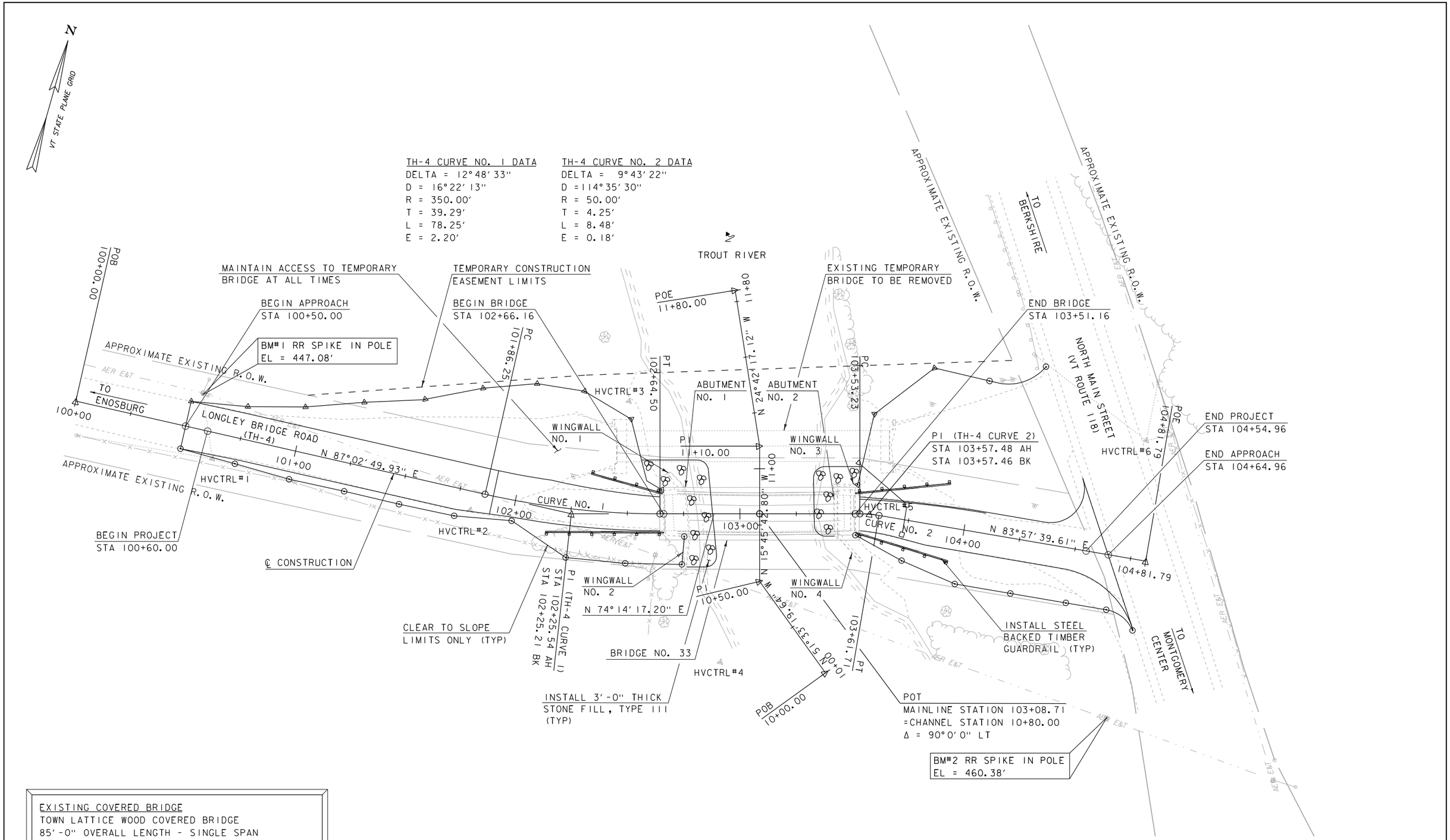
HTA PROJECT	MODEL
904227	z12j352Typicall

PROJECT NAME: MONTGOMERY

PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352typ.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
TYPICAL ROADWAY SECTION

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 7 OF 17



EXISTING COVERED BRIDGE
TOWN LATTICE WOOD COVERED BRIDGE
85'-0" OVERALL LENGTH - SINGLE SPAN
66'-11" CLEAR SPAN
CONSTRUCTED 1863
15'-0" ROADWAY
WOODEN DECK WITH RUNNER PLANKS
11'-4" (MIN) CLEAR HEIGHT
LAID-UP STONE AND CONCRETE ENCASED ABUTMENTS

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

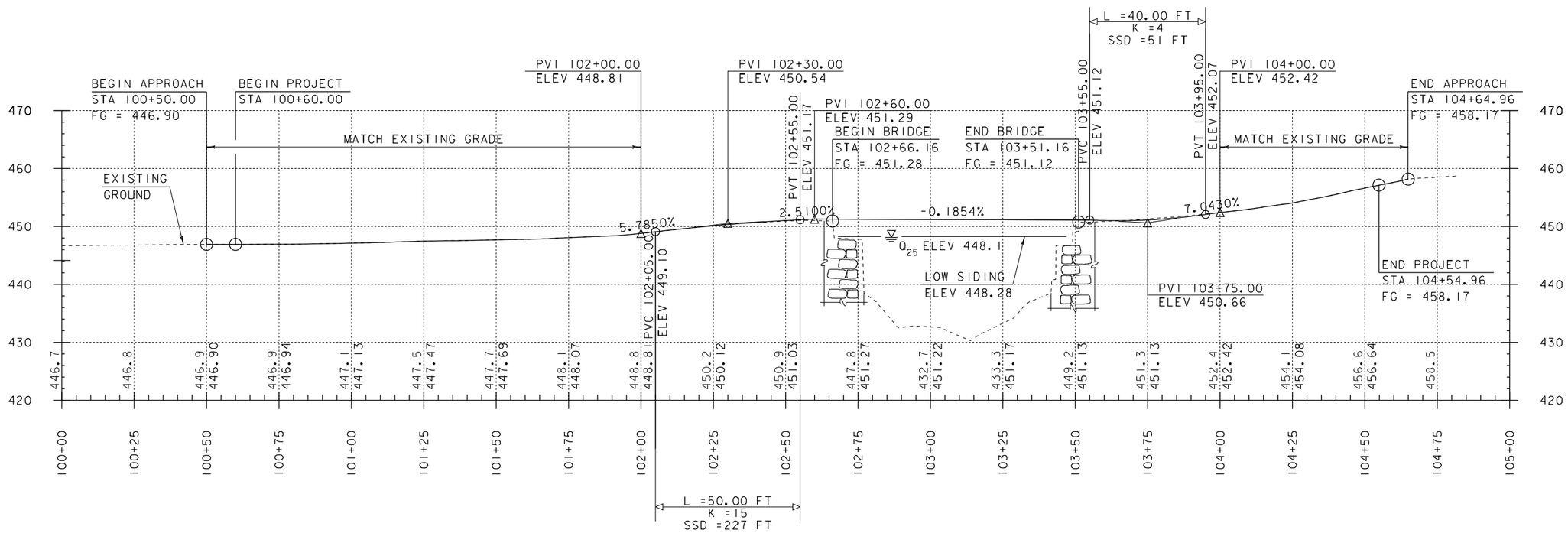
Hoyle, Tanner & Associates, Inc.

HTA PROJECT	MODEL
904227	z12j352LAY1

PROJECT NAME: MONTGOMERY
PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352sht_lay.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
LAYOUT SHEET

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 8 OF 17



TH-4 PROFILE

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

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE

Hoyle, Tanner & Associates, Inc.

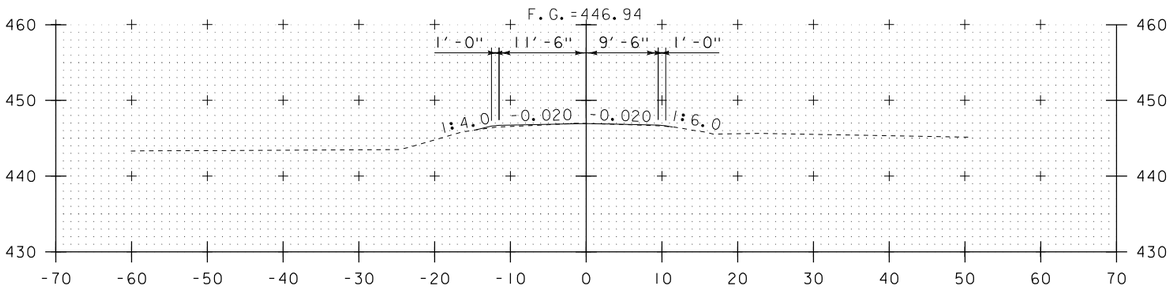
HTA PROJECT	MODEL
904227	profile1

PROJECT NAME: MONTGOMERY

PROJECT NUMBER: BHO 1448(42)

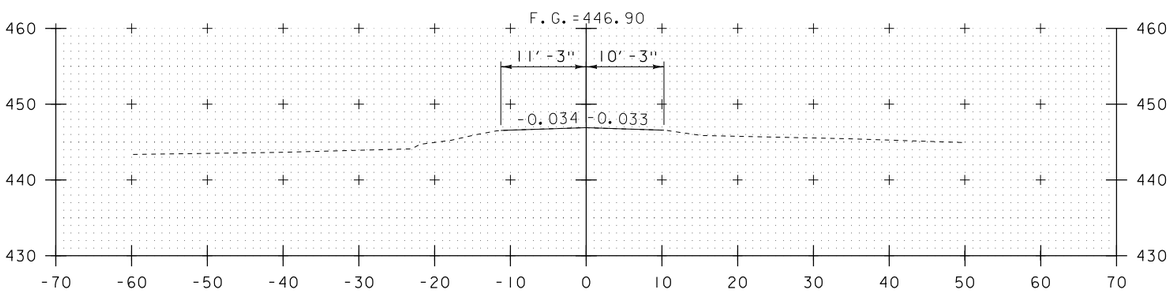
FILE NAME: z12j352profile1.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
TH-4 PROFILE SHEET

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 9 OF 17



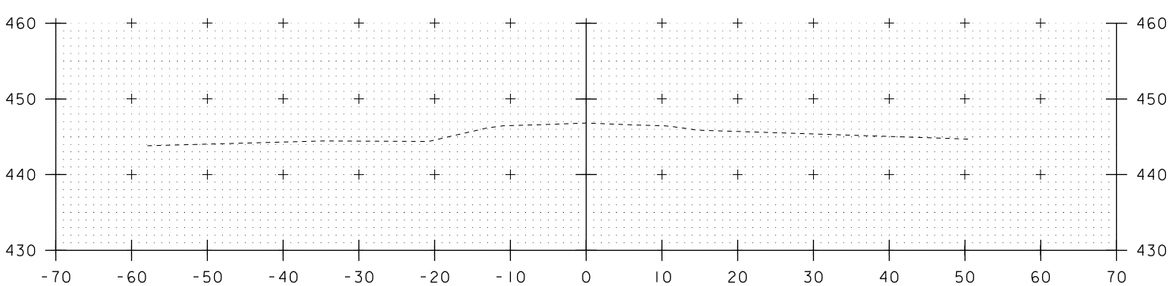
100+75

BEGIN PROJECT STA 100+60.00

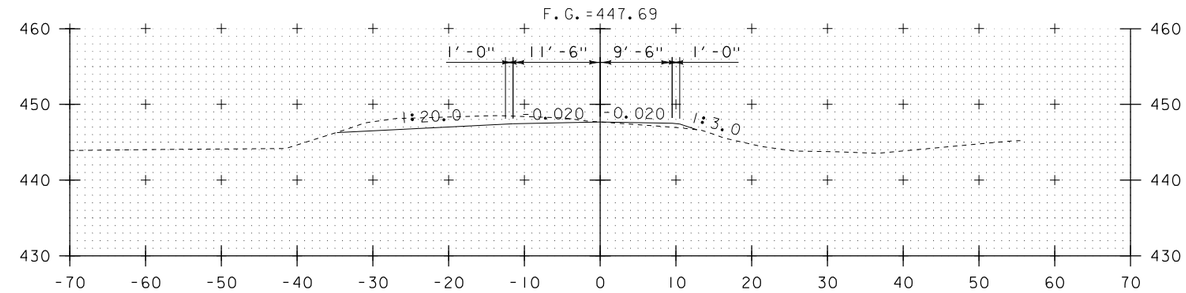


100+50

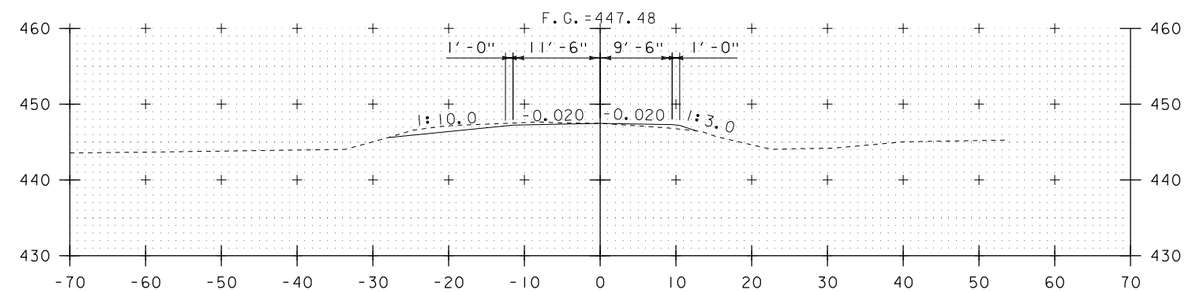
BEGIN APPROACH



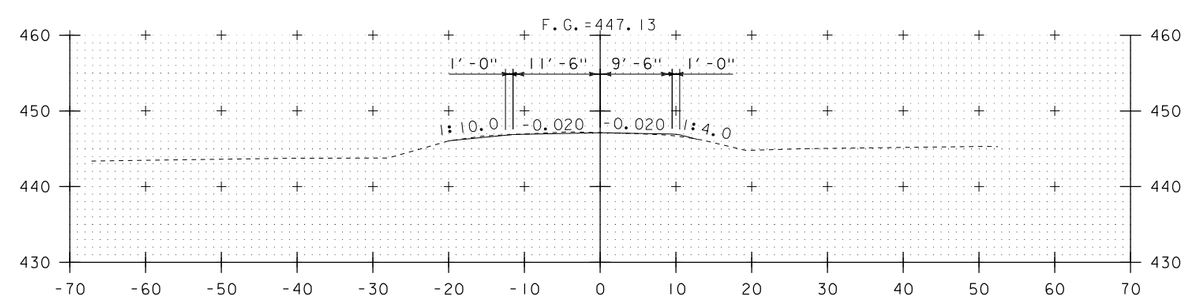
100+25



101+50



101+25



101+00

STA. 100+25 TO STA. 101+50

Hoyle, Tanner & Associates, Inc.

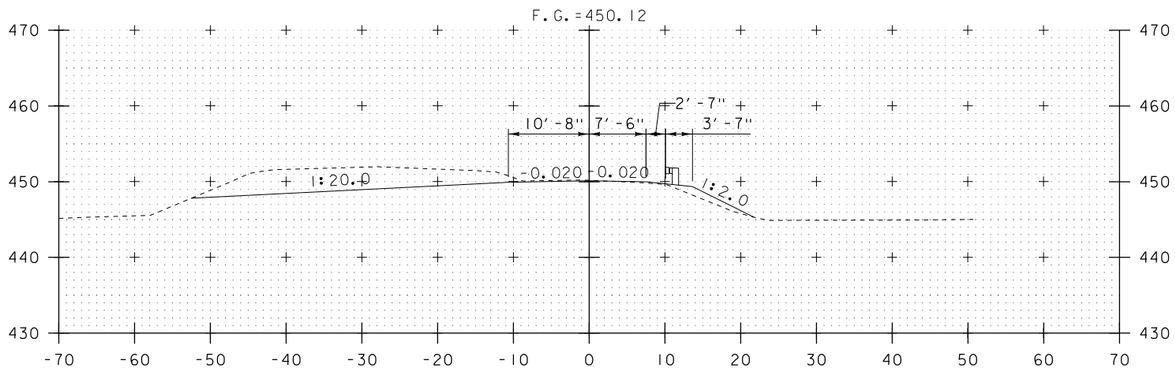
HTA PROJECT	MODEL
904227	XSI

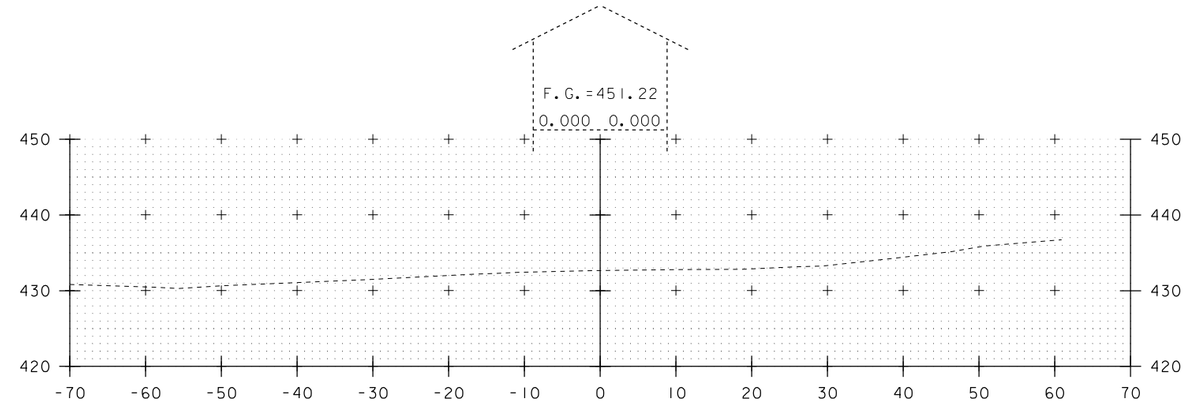
PROJECT NAME: MONTGOMERY

PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352xsl.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
TH-4 CROSS SECTION SHEET 1

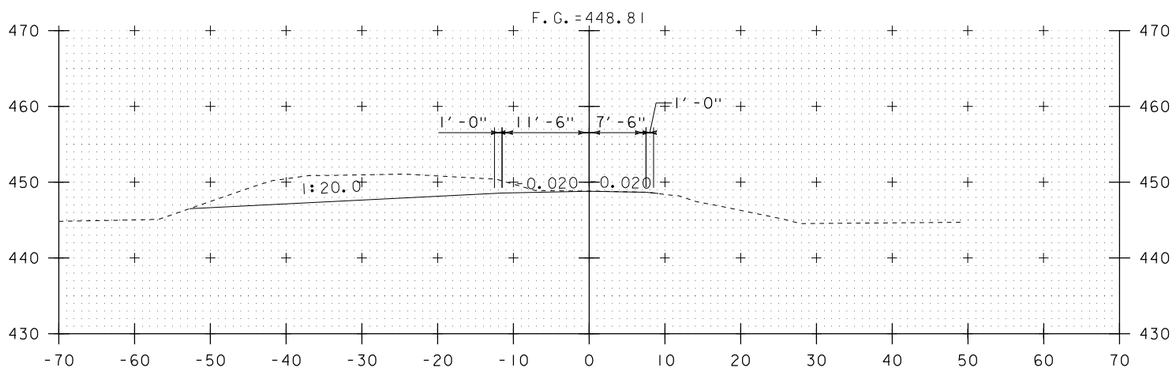
PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 10 OF 17

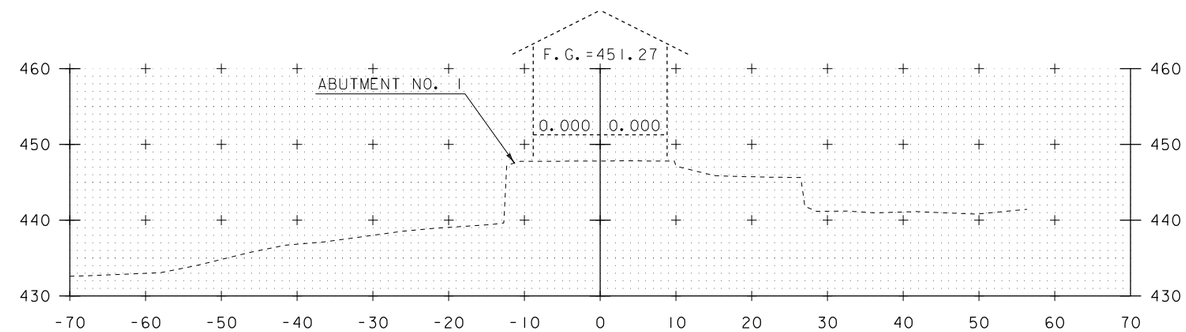




103+00

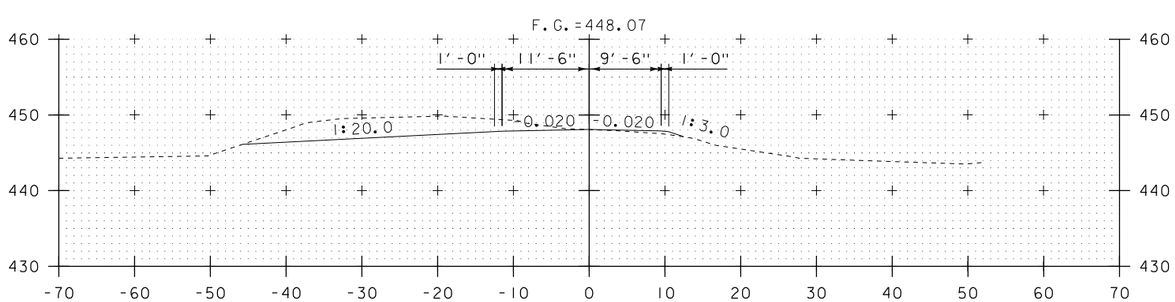
102+25

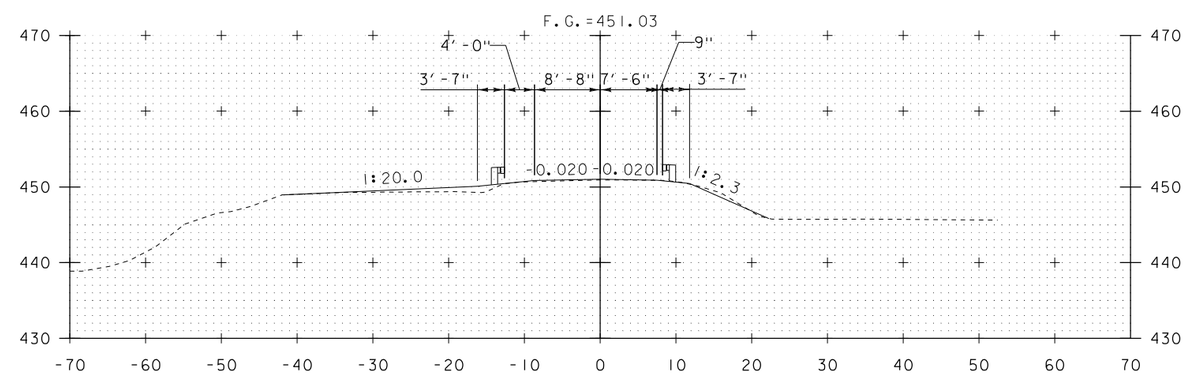




102+75
BEGIN BRIDGE STA 102+66.16

102+00





101+75

102+50

STA. 101+75 TO STA. 103+00

Hoyle, Tanner & Associates, Inc.

HTA PROJECT	MODEL
904227	XS2

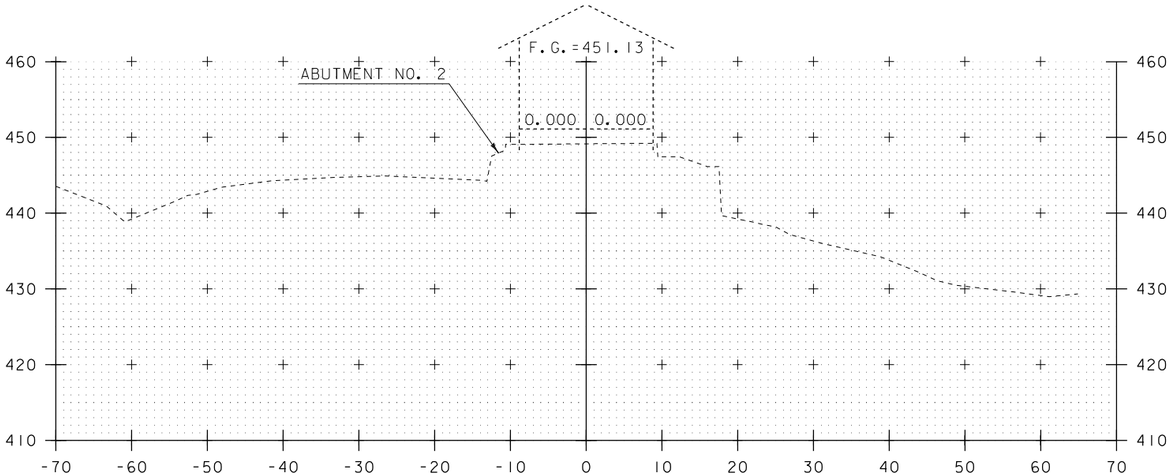
PROJECT NAME: MONTGOMERY

PROJECT NUMBER: BHO 1448(42)

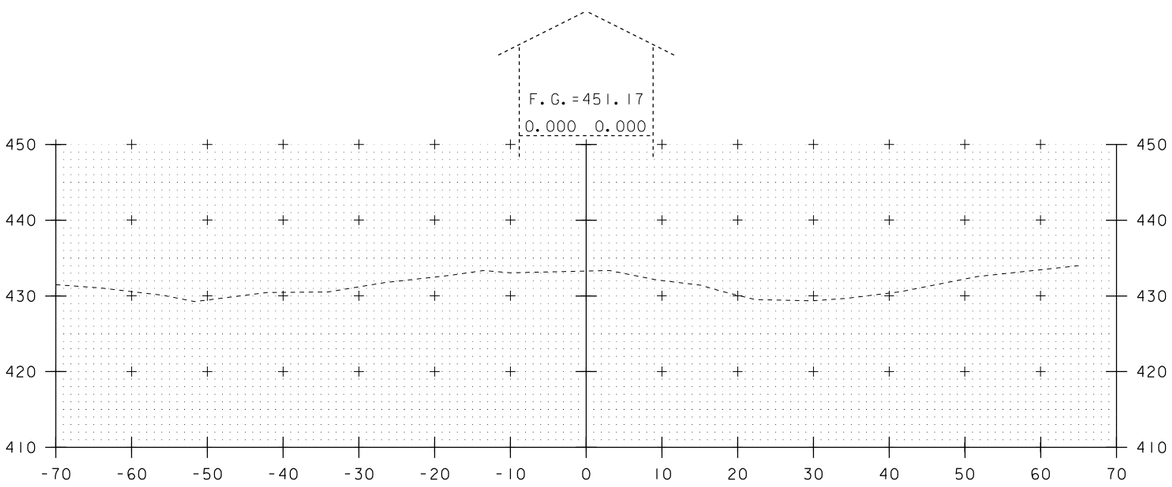
FILE NAME: z12j352xs1.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
TH-4 CROSS SECTION SHEET 2

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 11 OF 17

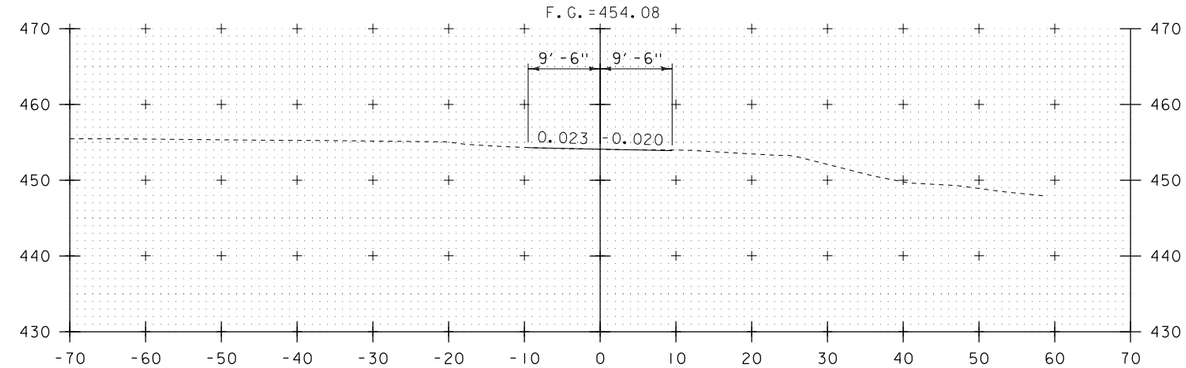
END BRIDGE STA. 103+51.16



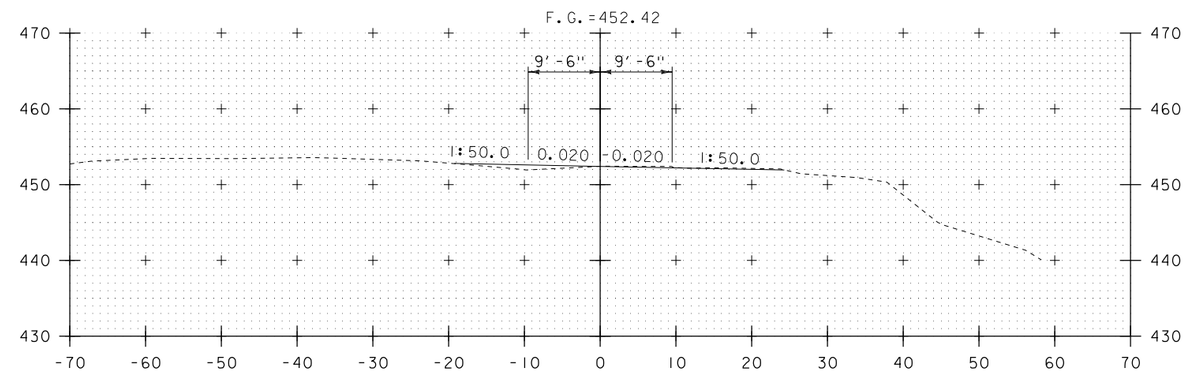
103+50



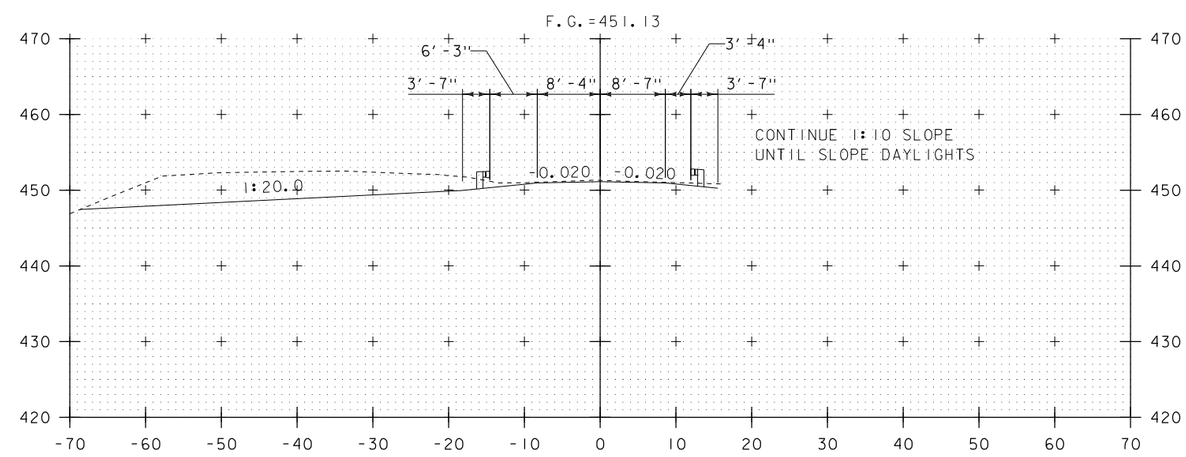
103+25



104+25



104+00



103+75

STA. 103+25 TO STA. 104+25

Hoyle, Tanner & Associates, Inc.

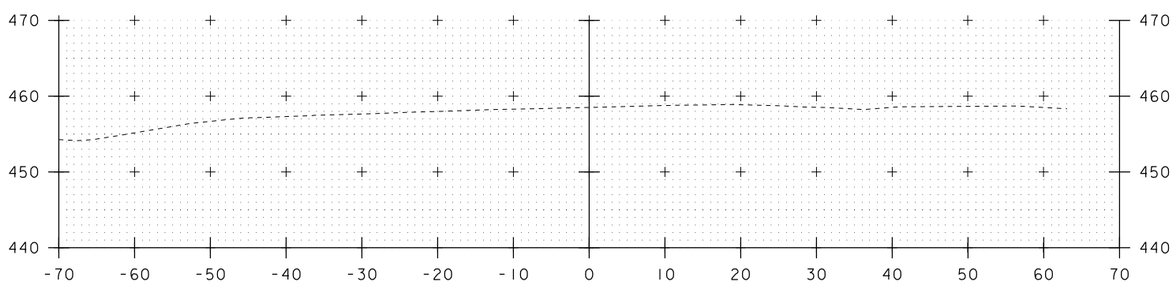
HTA PROJECT	MODEL
904227	XS3

PROJECT NAME: MONTGOMERY

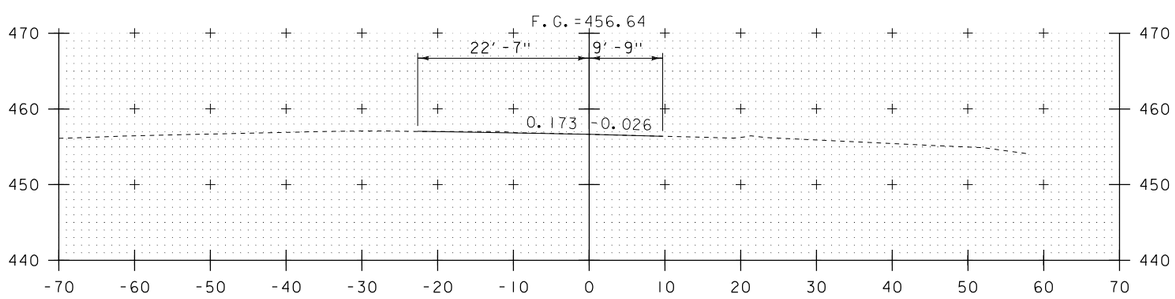
PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352xsl.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
TH-4 CROSS SECTION SHEET 3

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 12 OF 17



104+75
END APPROACH STA 104+64.96



104+50
END PROJECT STA 104+54.96

STA. 104+50 TO STA. 104+75

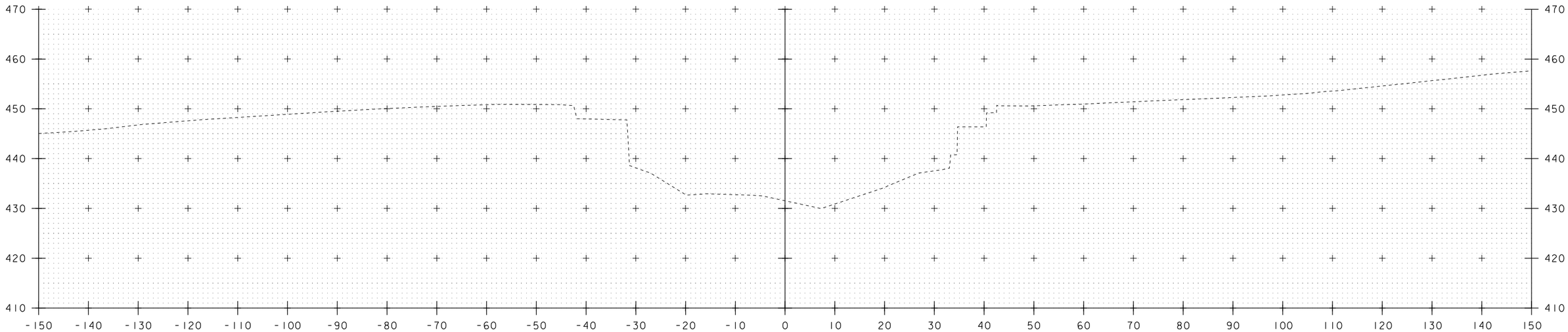
Hoyle, Tanner & Associates, Inc.

HTA PROJECT	MODEL
904227	XS4

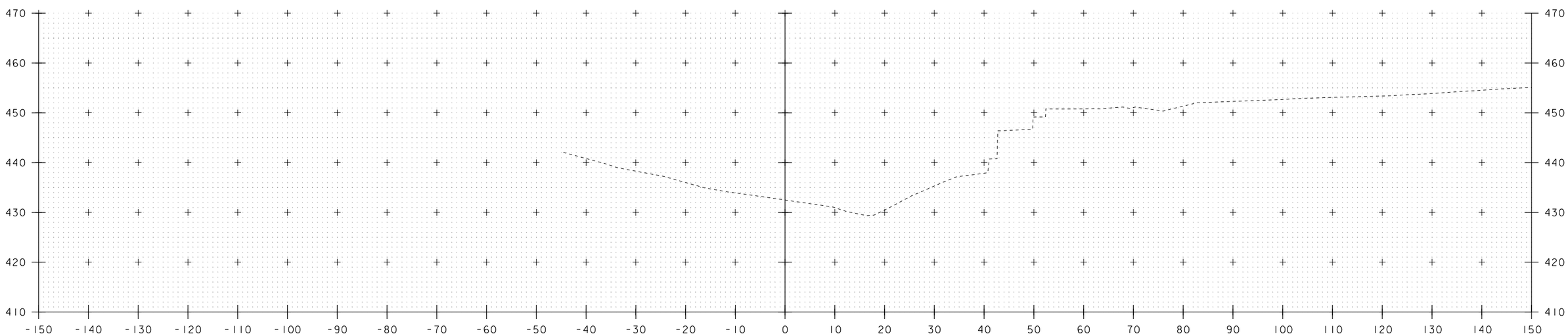
PROJECT NAME: MONTGOMERY
PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352xsl.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
TH-4 CROSS SECTION SHEET 4

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 13 OF 17



10+75



10+50

STA. 10+50 TO STA. 10+75

Hoyle, Tanner & Associates, Inc.

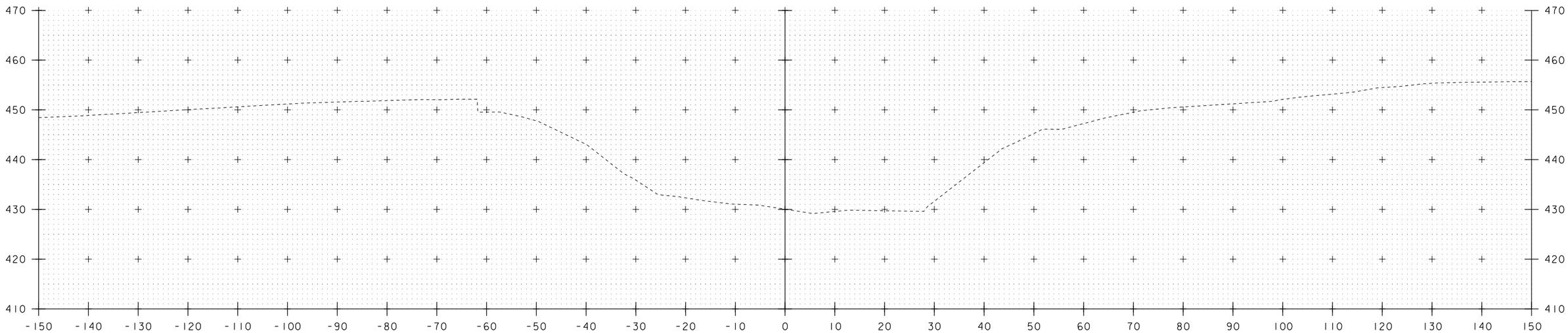
HTA PROJECT	MODEL
904227	XSI

PROJECT NAME: MONTGOMERY

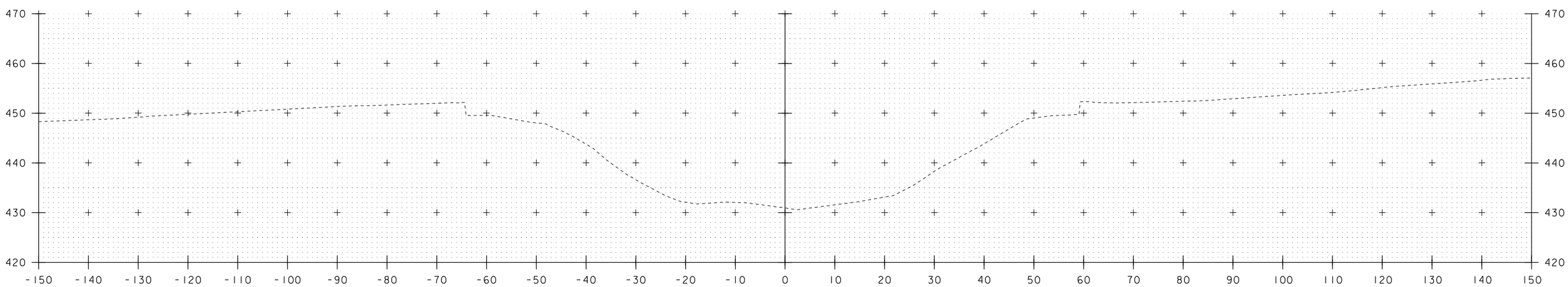
PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352xs2.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
CHANNEL CROSS SECTION SHEET 1

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 14 OF 17



11+25



11+00

STA. 11+00 TO STA. 11+25

Hoyle, Tanner & Associates, Inc.

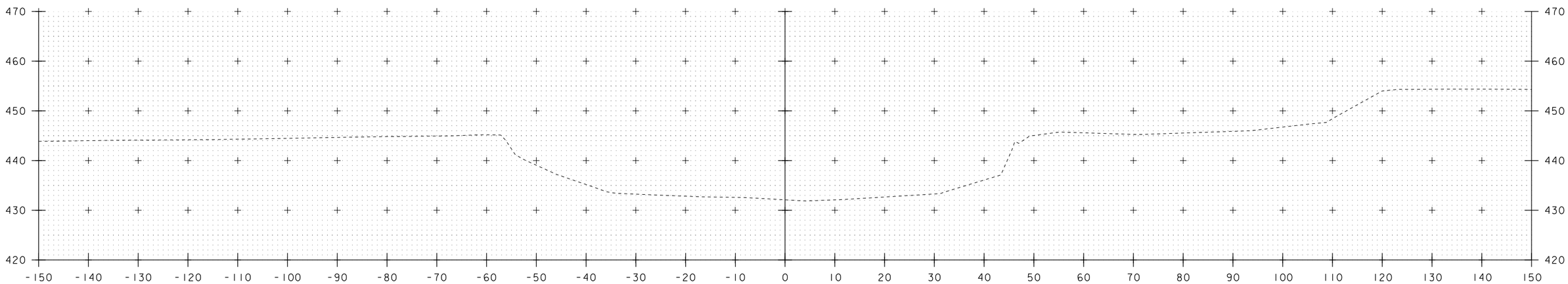
HTA PROJECT	MODEL
904227	XS2

PROJECT NAME: MONTGOMERY

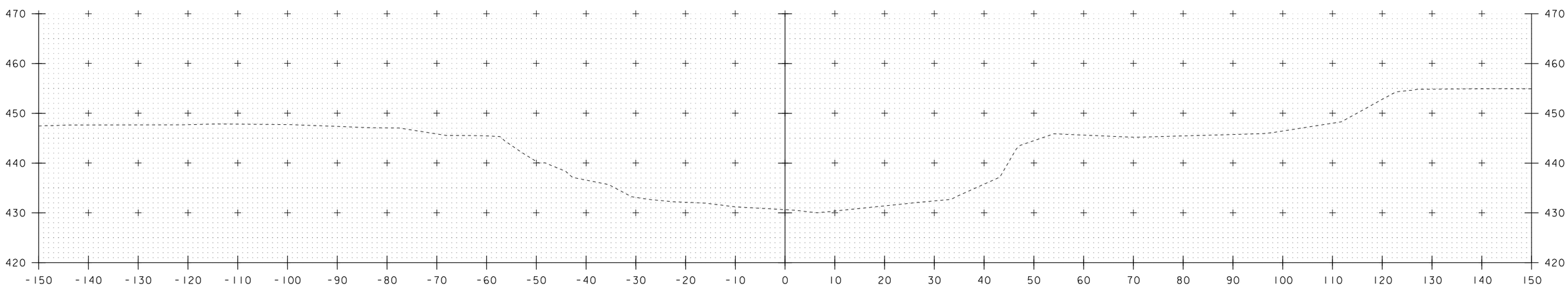
PROJECT NUMBER: BHO 1448(42)

FILE NAME: zl2j352xs2.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
CHANNEL CROSS SECTION SHEET 2

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 15 OF 17



11+75



11+50

STA. 11+50 TO STA. 11+75

Hoyle, Tanner & Associates, Inc.

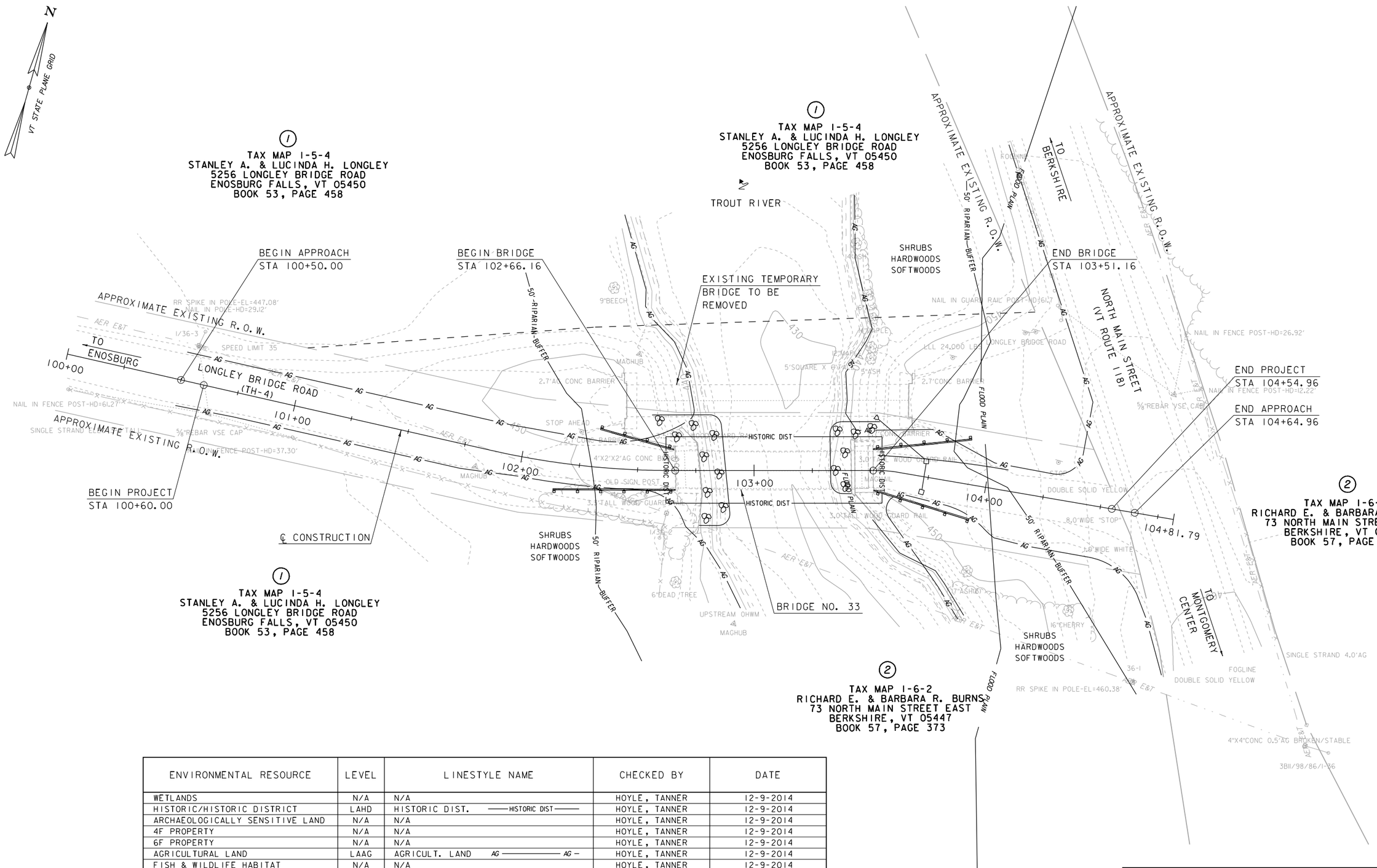
HTA PROJECT	MODEL
904227	XS3

PROJECT NAME: MONTGOMERY

PROJECT NUMBER: BHO 1448(42)

FILE NAME: zl2j352xs2.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: A. BEAULAC
CHANNEL CROSS SECTION SHEET 3

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 16 OF 17



ENVIRONMENTAL RESOURCE	LEVEL	LINESTYLE NAME	CHECKED BY	DATE
WETLANDS	N/A	N/A	HOYLE, TANNER	12-9-2014
HISTORIC/HISTORIC DISTRICT	LAHD	HISTORIC DIST. ——HISTORIC DIST——	HOYLE, TANNER	12-9-2014
ARCHAEOLOGICALLY SENSITIVE LAND	N/A	N/A	HOYLE, TANNER	12-9-2014
4F PROPERTY	N/A	N/A	HOYLE, TANNER	12-9-2014
6F PROPERTY	N/A	N/A	HOYLE, TANNER	12-9-2014
AGRICULTURAL LAND	LAAG	AGRICULT. LAND AG ———— AG —	HOYLE, TANNER	12-9-2014
FISH & WILDLIFE HABITAT	N/A	N/A	HOYLE, TANNER	12-9-2014
FLOOD PLAINS	LAFP	FLD. PLAINS —— FLOOD PLAIN ——	HOYLE, TANNER	12-9-2014
ENDANGERED SPECIES	N/A	N/A	HOYLE, TANNER	12-9-2014
HAZARDOUS WASTE	N/A	N/A	HOYLE, TANNER	12-9-2014
STORMWATER	N/A	N/A	HOYLE, TANNER	12-9-2014
GREEN MOUNTAIN NATIONAL FOREST LAND	N/A	N/A	HOYLE, TANNER	12-9-2014

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

DATUM	
VERTICAL	NAVD 88 FT
HORIZONTAL	NAD 83(2011) sFT
ADJUSTMENT	UNADJUSTED

Hoyle, Tanner & Associates, Inc.

HTA PROJECT	MODEL
904227	z12j352res

PROJECT NAME: MONTGOMERY
PROJECT NUMBER: BHO 1448(42)

FILE NAME: z12j352res.dgn
PROJECT LEADER: M. SARGENT
DESIGNED BY: W. DURACK
RESOURCE SITE PLAN

PLOT DATE: 12/16/2014
DRAWN BY: P. DUSTIN
CHECKED BY: J. BICJA
SHEET 17 OF 17