REVIEWER NOTES:
1. CONSTRUCTION WILL BE STAGED AND IS EXPECTED TO BE COMPLETED IN ONE SEASON.
2. SUPPLEMENTAL FIELD SURVEY HAS BEEN REQUESTED AND WILL BE INCORPORATED INTO THE PRELIMINARY PLAN SUBMISSION.
3. UTILITIES:
   A) EXISTING 8" CAST IRON CITY OF MONTPELIER WATER MAIN EXISTS IMMEDIATELY NORTH OF THE NORTHWEST CORNER OF THE PROPOSED BRIDGE. THE EXACT LOCATION OF THIS MAIN SHALL BE DETERMINED DURING THE DESIGN PHASE OR AT THE START OF CONSTRUCTION TO ENSURE THE CONTRACTOR PROTECTS THE PIPELINE. EARLY COORDINATION WITH THE UTILITY OWNER IS RECOMMENDED.
   B) THERE IS AN EXISTING GUY WIRE CROSSING THE ROADWAY TO A STUB POLE/ANCHOR APPROXIMATELY 50' WEST OF THE BRIDGE. THIS WIRE MUST BE REMOVED PRIOR TO CONSTRUCTION FOR CRANE OPERATIONS. THE EXISTING STUB POLE/ANCHOR IS LOCATED IN THE FUTURE SHOULDER AND MUST BE REMOVED OR RELOCATED.
   C) AN EXISTING ELECTRIC LINE CROSSES THE ROADWAY APPROXIMATELY 80' WEST OF THE BRIDGE. IT APPEARS THAT THE WIRE IS ABANDONED. THIS SHOULD BE CONFIRMED AND THE WIRE REMOVED PRIOR TO CONSTRUCTION.
4. RIGHT-OF-WAY:
   A) A PERMANENT ROW EASEMENT MAY BE REQUIRED FOR A UTILITY POLE PUSH BRACE, SEE UTILITY NOTE 3B ABOVE.
   B) TWO TEMPORARY CONSTRUCTION EASEMENTS WILL BE REQUIRED FOR:
      1. ROADWAY SIDE SLOPE CONSTRUCTION NORTHWEST OF THE BRIDGE AT STA. 148+50, LT. THIS TEMPORARY EASEMENT SHALL BE INCREASED IN SIZE TO ALLOW FOR CONTRACTOR ACCESS AND EQUIPMENT STAGING/LAYDOWN AS SHOWN ON THE STAGING PLAN.
      2. REMOVAL OF THE EXISTING UPSTREAM WINGWALLS SOUTH OF THE BRIDGE. THIS TEMPORARY EASEMENT SHALL BE INCREASED IN SIZE TO ALLOW FOR CONTRACTOR ACCESS AS SHOWN ON THE STAGING PLAN.
   C) IT IS EXPECTED THAT THE CONTRACTOR WILL UTILIZE THE AREA SOUTHWEST OF THE BRIDGE (OWNED BY THE STATE OF VERMONT AND PART OF THE VAST TRAIL) FOR EQUIPMENT STAGING/LAYDOWN.
5. PROJECT LIMITS: THE PROJECT BEGINS WHERE THE TYPICAL SECTION OF THE CORRIDOR CURRENTLY NARROWS TO MEET THE EXISTING BRIDGE AND THE PROJECT ENDS AT THE LIMITS OF THE APRON OF THE EXISTING CONCRETE RAILROAD CROSSING.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
BRIDGE PROJECT

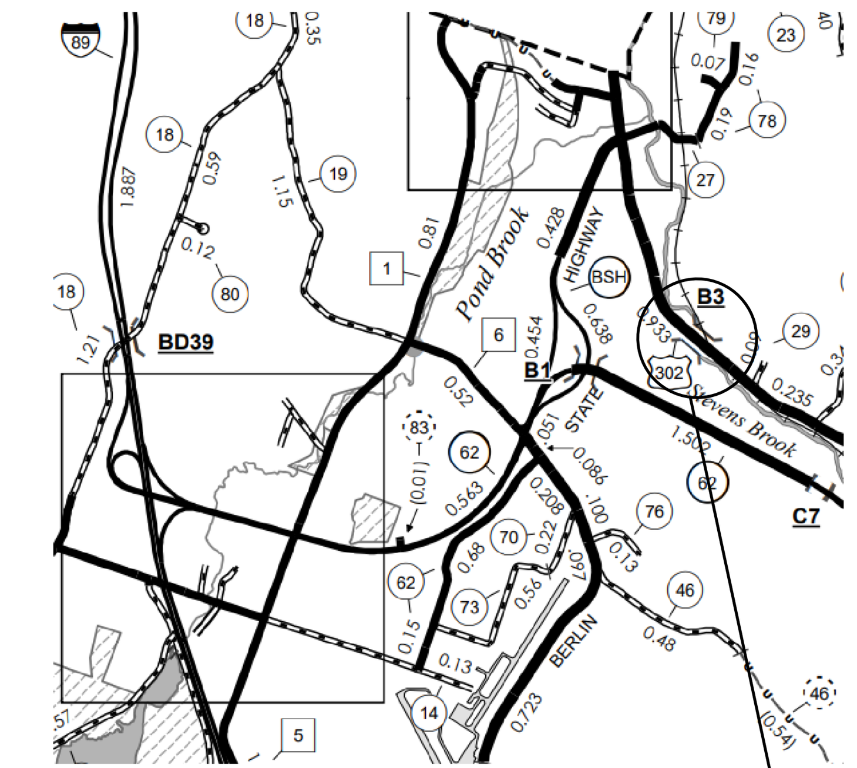
TOWN OF BERLIN
COUNTY OF WASHINGTON

ROUTE NO: US ROUTE 302, URBAN PRINCIPAL ARTERIAL
BRIDGE NO: 3 OVER STEVENS BRANCH

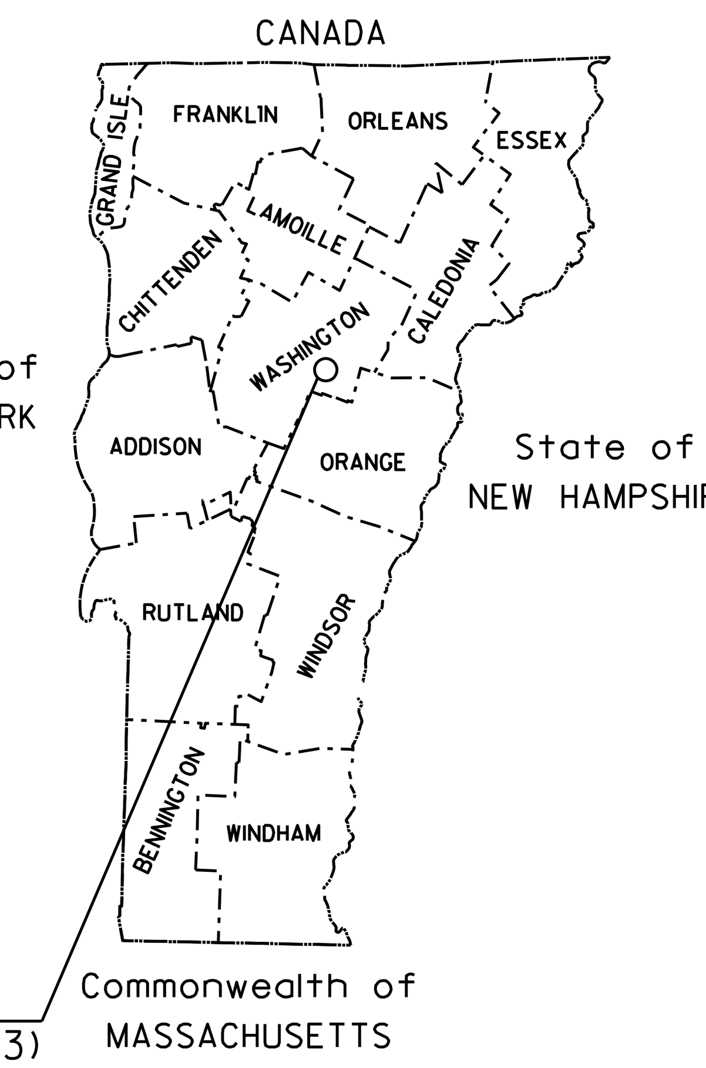
PROJECT LOCATION: 0.7 MILES EAST OF THE INTERSECTION OF US 302 AND THE BERLIN STATE HIGHWAY

PROJECT DESCRIPTION: REMOVAL OF EXISTING BRIDGE AND CONSTRUCTION OF A WIDER BRIDGE ON AN ALIGNMENT SHIFTED NORTH WITH RELATED APPROACH WORK AND INCIDENTAL ITEMS.

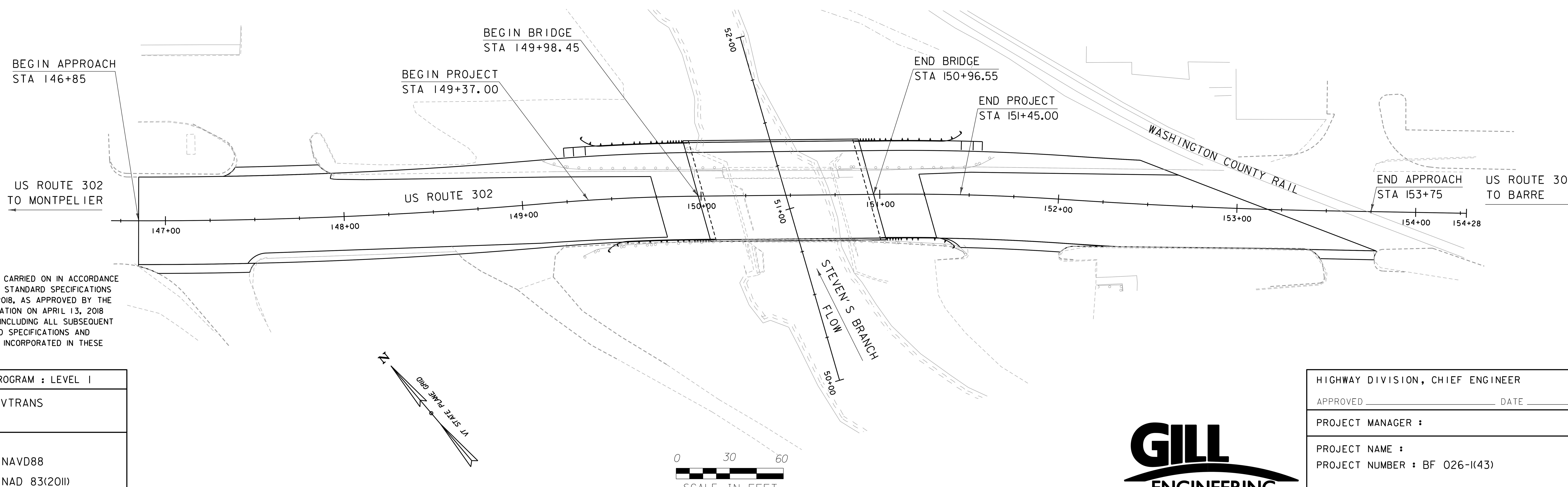
LENGTH OF STRUCTURE: 98.10 FEET
LENGTH OF ROADWAY: 109.90 FEET
TOTAL LENGTH OF PROJECT: 208.00 FEET



LOCATION MAP
NOT TO SCALE



CONCEPTUAL PLANS
SEPTEMBER 18, 2019



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 1	
SURVEYED BY :	VTRANS
SURVEYED DATE :	
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83(2011)

GILL ENGINEERING

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED ________ DATE ______
PROJECT MANAGER :
PROJECT NAME :
PROJECT NUMBER : BF 026-1(43)
SHEET 1 OF 21 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

DETAIL SHEETS

STANDARDS WILL BE
LISTED IN FINAL PLANS

STANDARDS LIST

STANDARDS WILL BE
LISTED IN FINAL PLANS

FINAL HYDRAULIC REPORT

TRAFFIC MAINTENNACE NOTES

SEE TRAFFIC STAGING PLAN

DESIGN VALUES

1.	DESIGN LIVE LOAD		HL-93
2.	FUTURE PAVEMENT	d_p:	3.0 INCH
3.	DESIGN SPAN	L:	95.00 FT
4.	MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5.	PRESTRESSING STRAND (0.60 INCH DIAMETER - LOW RELAX)	f_y:	270 KSI
6.	PRESTRESSED CONCRETE STRENGTH	f'_c:	6.0 KSI
7.	PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	5.0 KSI
8.	HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c:	4.0 KSI
9.	HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c:	3.5 KSI
10.	CONCRETE HIGH PERFORMANCE, CLASS PSS	f'_c:	4.0 KSI
11.	CONCRETE, CLASS C	f'_c:	3.0 KSI
12.	REINFORCING STEEL	f_y:	60 KSI
13.	STRUCTURAL STEEL AASHTO M270	f_y:	50 KSI
14.	NOMINAL BEARING RESISTANCE OF SOIL	q_n:	---
15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16.	NOMINAL BEARING RESISTANCE OF ROCK	q_n:	---
17.	ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18.	PILE RESISTANCE FACTOR	ϕ:	---
19.	LATERAL PILE DEFLECTION	Δ:	---
20.	BASIC WIND SPEED	V_{3s}:	---
21.	MINIMUM GROUND SNOW LOAD	p_g:	---
22.	SEISMIC DATA — PGA: ---	S_s:	---
		S_1:	---
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	
2017	13600	1400	51	3.8	650	20 year ESAL for flexible pavement from 2017 to 2037 : ---
2037	14400	1500	51	5.6	1000	40 year ESAL for flexible pavement from 2017 to 2057 : ---
						Design Speed : 40 mph

AS BUILT "REBAR" DETAIL

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

PROJECT NAME: **BERLIN**
PROJECT NUMBER: **026-1(43)**

FILE NAME: **z13b254pi.dgn**
PROJECT LEADER: **A. SPERA**
DESIGNED BY: **C. BURNER**
PRELIMINARY INFORMATION SHEET

PLOT DATE: 9/13/2019
DRAWN BY: **C. BURNER**
CHECKED BY: **A. SPERA**
SHEET 2 OF 21

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
	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 SYMBOLOGY

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 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
- PROJECT DEMARCATION FENCE
- 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 SR 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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

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 SYMBOLOGY

EXISTING FEATURES

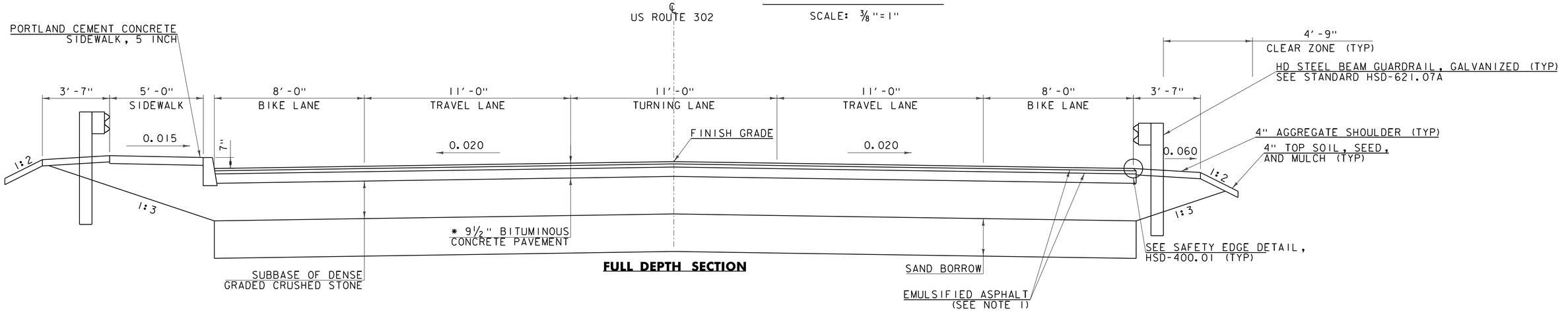
- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

GILL ENGINEERING

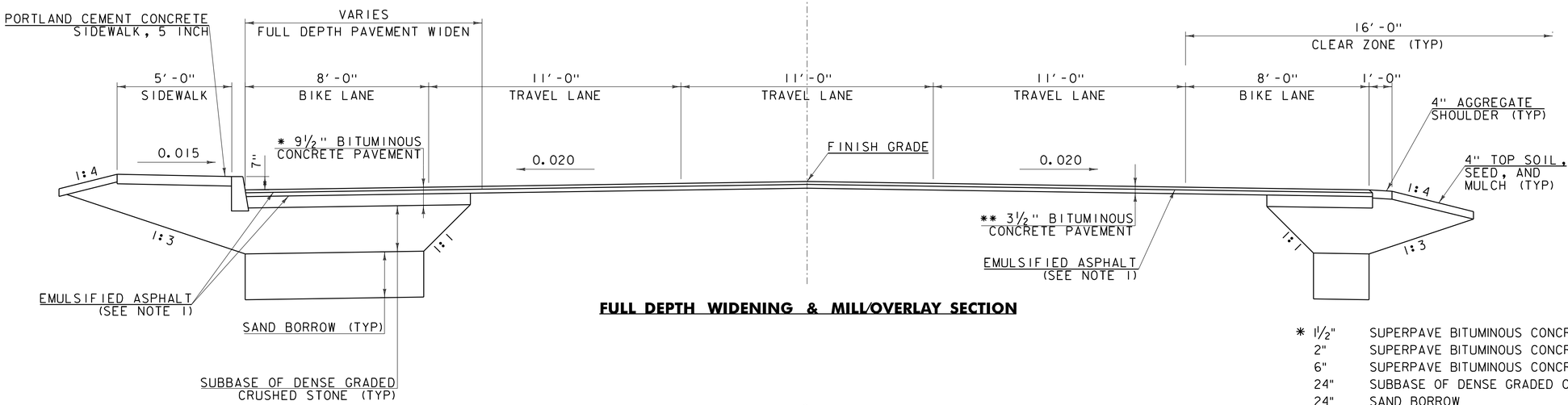
PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13a254legend.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: VTRANS
DESIGNED BY: VTRANS	CHECKED BY: VTRANS
LEGEND SHEET	SHEET 3 OF 21

TYPICAL ROADWAY SECTION
US ROUTE 302

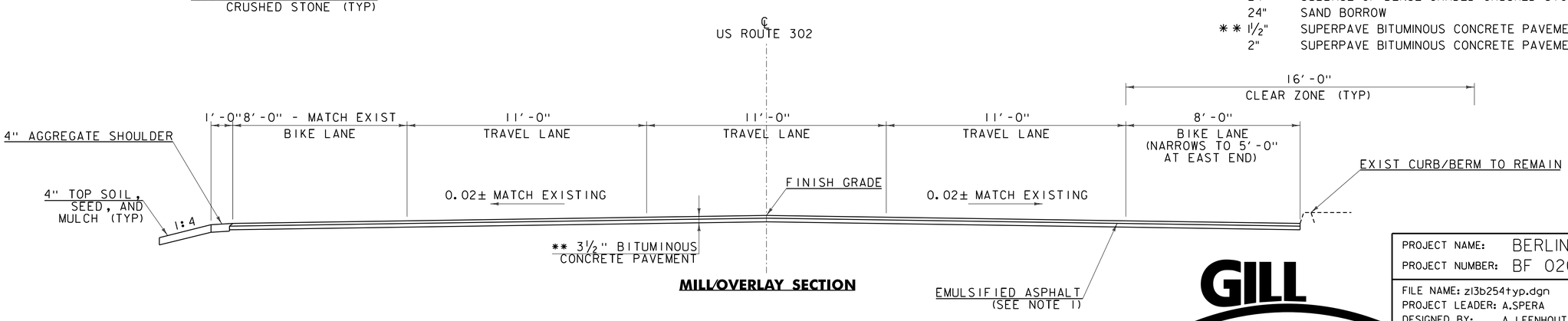
SCALE: 3/8"=1"



FULL DEPTH SECTION



FULL DEPTH WIDENING & MILL/OVERLAY SECTION



MILL/OVERLAY SECTION

MATERIAL TOLERANCES
(IF USED ON PROJECT)

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

NOTES:
1. EMULSION APPLICATION RATE SHALL BE APPLIED PER TABLE 406.12A OF THE STANDARD SPECIFICATIONS

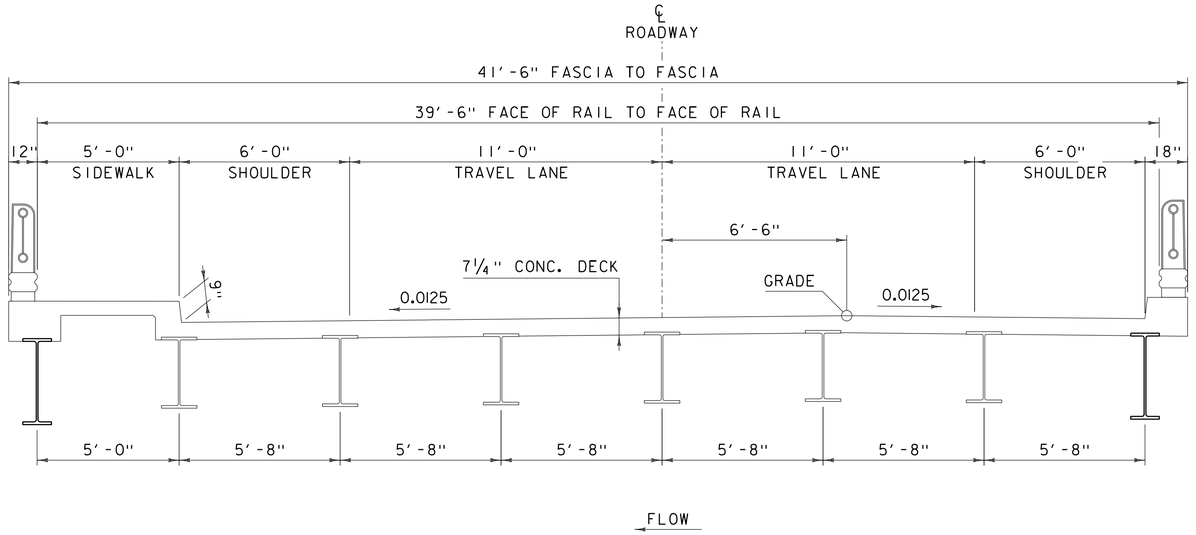
* 1½"	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS
2"	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIIS
6"	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, (2 LIFTS - 3" PER LIFT)
24"	SUBBASE OF DENSE GRADED CRUSHED STONE
24"	SAND BORROW
** 1½"	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS
2"	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIIS

GILL ENGINEERING

PROJECT NAME: BERLIN
PROJECT NUMBER: BF 026-1(43)

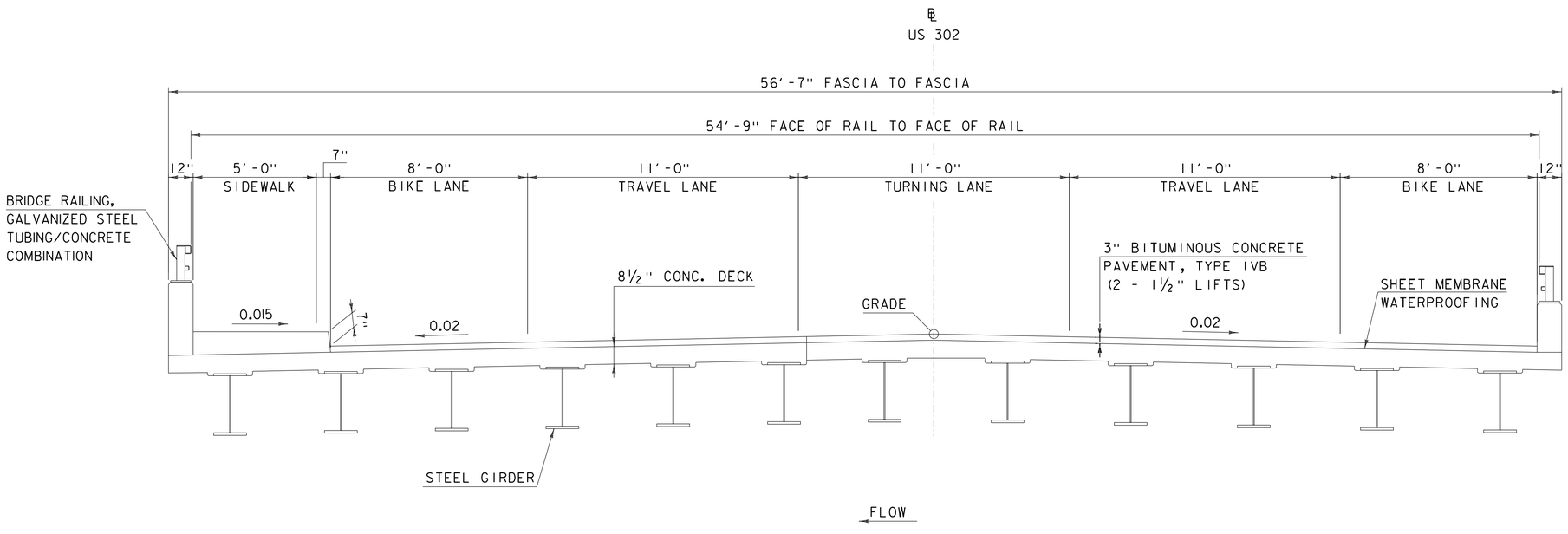
FILE NAME: z13b254typ.dgn
PROJECT LEADER: A.SPERA
DESIGNED BY: A. LEENHOUTS
TYPICAL ROADWAY SECTIONS

PLOT DATE: 9/17/2019
DRAWN BY: A. LEENHOUTS
CHECKED BY: S. CARPENTER
SHEET 4 OF 21



EXISTING BRIDGE TYPICAL SECTION

SCALE ⅜" = 1'-0"

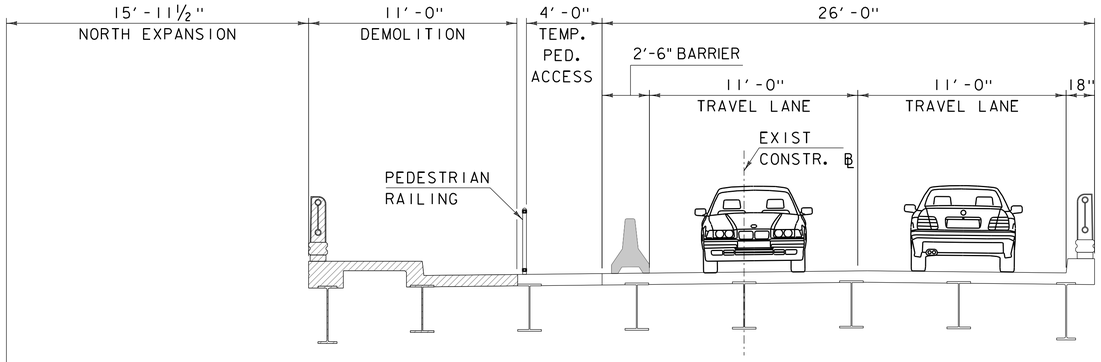


PROPOSED BRIDGE TYPICAL SECTION

SCALE ⅜" = 1'-0"

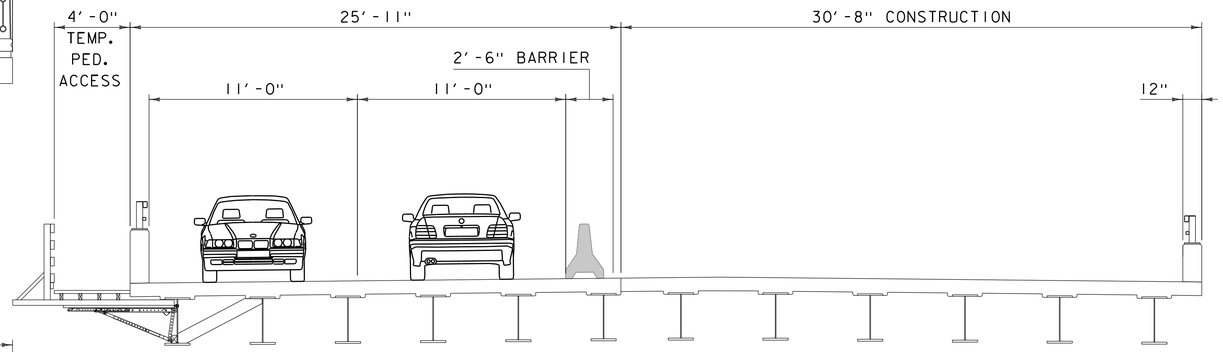
GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13b254typ.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: C. BURNER
DESIGNED BY: F. BERLUS	CHECKED BY: A. SPERA
TYPICAL BRIDGE SECTIONS	SHEET 5 OF 21



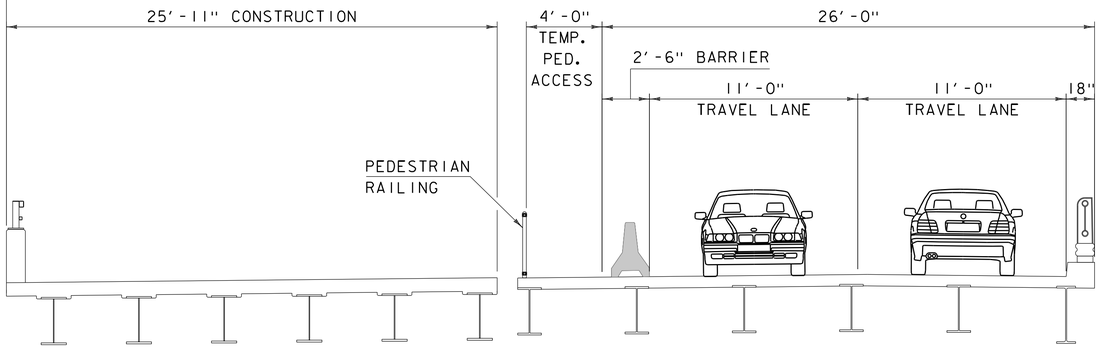
STAGE 1 - DEMOLITION

SCALE: ¼" = 1′-0"



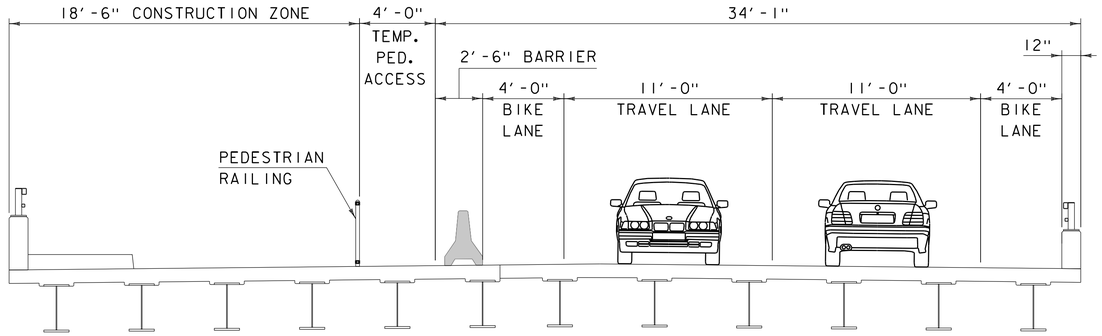
STAGE 2 - CONSTRUCTION

SCALE: ¼" = 1′-0"



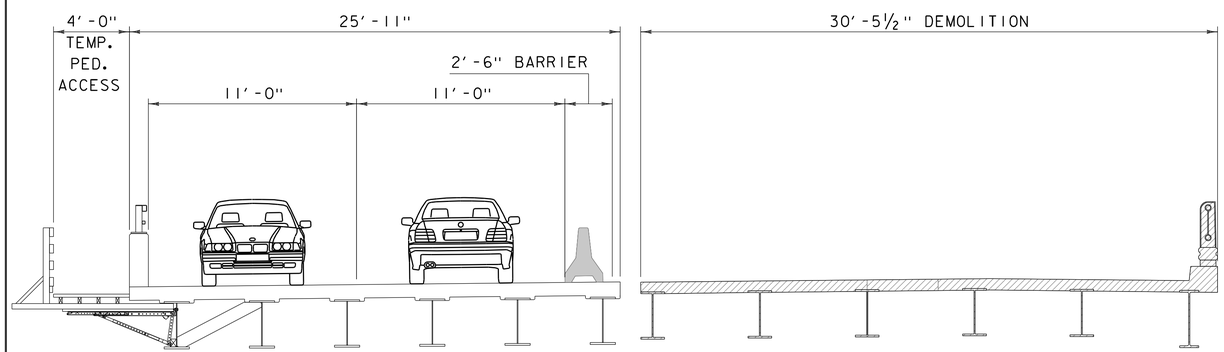
STAGE 1 - CONSTRUCTION

SCALE: ¼" = 1′-0"



STAGE 3 - CONSTRUCTION

SCALE: ¼" = 1′-0"



STAGE 2 - DEMOLITION

SCALE: ¼" = 1′-0"

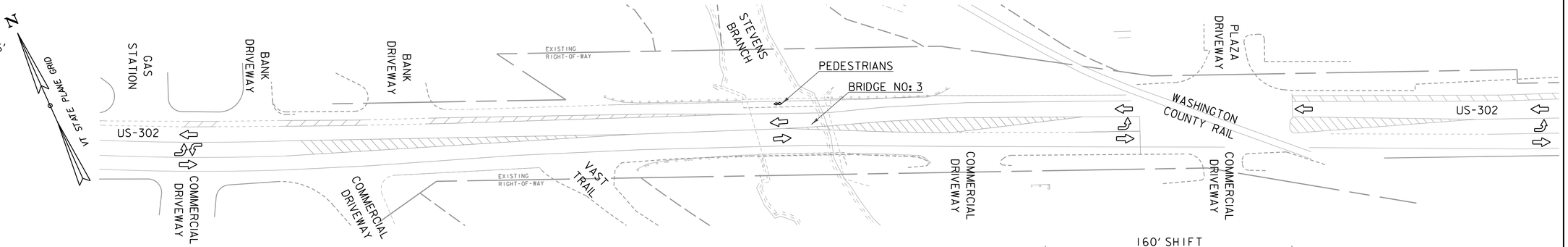
GILL ENGINEERING

PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-1(43)	
FILE NAME: z13b254typ.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: C.BURNER
DESIGNED BY: F.BERLUS	CHECKED BY: A. SPERA
BRIDGE STAGING SECTIONS	SHEET 6 OF 21

EXISTING

EXISTING CONDITIONS

NOTE: 11' TRAVEL LANES WITH 6' SHOULDERS AND 5' SIDEWALK

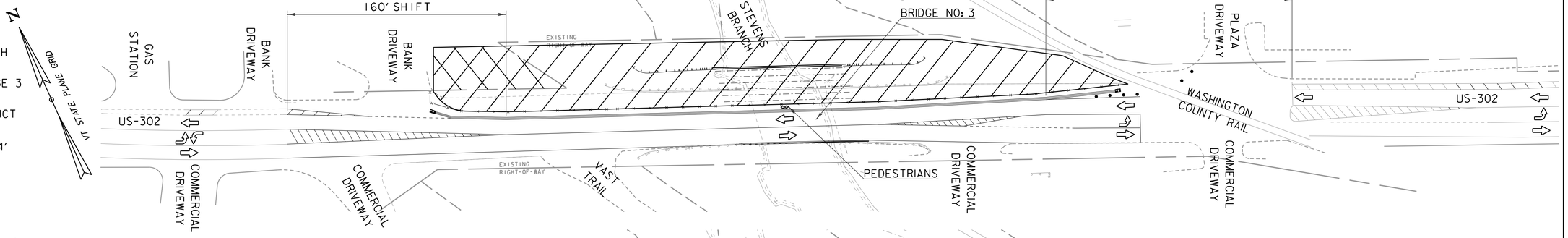


STAGE 1

NORHTERN PORTION OF BRIDGE 3 REPLACEMENT

-WITH TRAFFIC ON THE SOUTH SIDE OF US-302 CONSTRUCT NORTHERN PORTION OF BRIDGE 3 REPLACEMENT, ROADWAY IMPROVEMENTS, AND CONSTRUCT TEMP SIDEWALK

NOTE: 11' TRAVEL LANES WITH 4' SIDEWALK

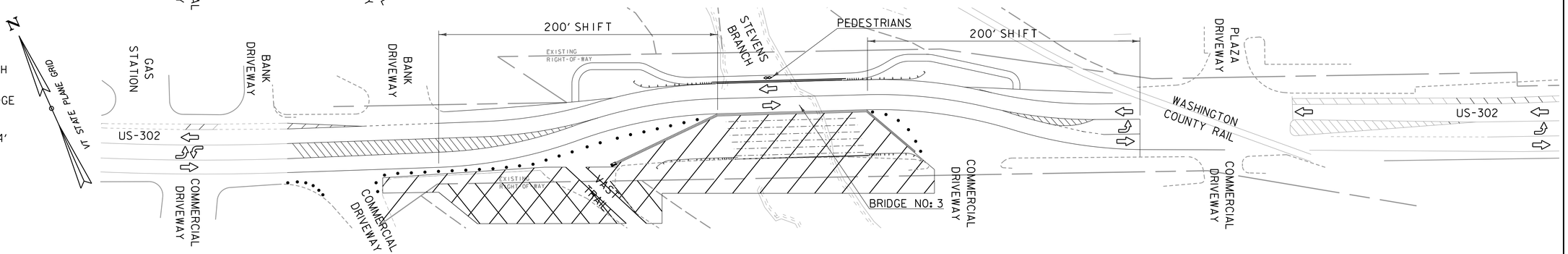


STAGE 2

SOUTHERN PORTION OF BRIDGE 3 REPLACEMENT

-WITH TRAFFIC ON THE NORTH SIDE OF US-302 CONSTRUCT SOUTHERN PORTION OF BRIDGE 3 REPLACEMENT

NOTE: 11' TRAVEL LANES WITH 4' SIDEWALK

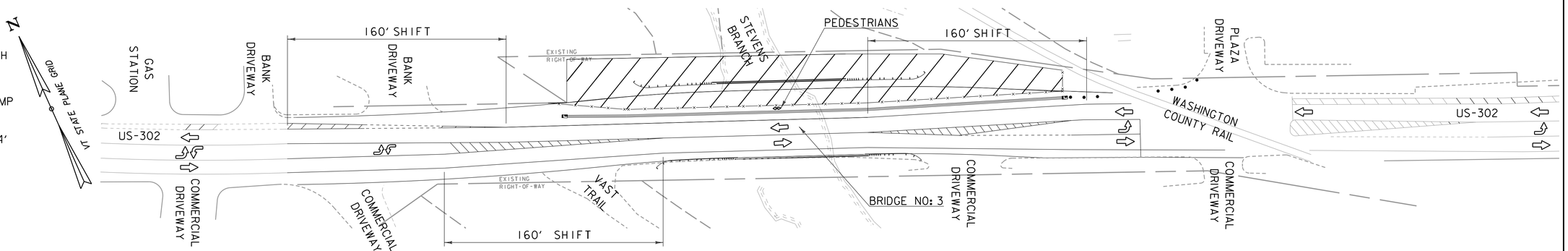


STAGE 3

BRIDGE 3 SIDEWALK

-WITH TRAFFIC ON THE SOUTH SIDE OF US-302 CONSTRUCT BRIDGE 3 SIDEWALK ON THE NORTH SIDE AND REMOVE TEMP SIDEWALK

NOTE: 11' TRAVEL LANES WITH 4' BIKE LANES AND 4' SIDEWALK

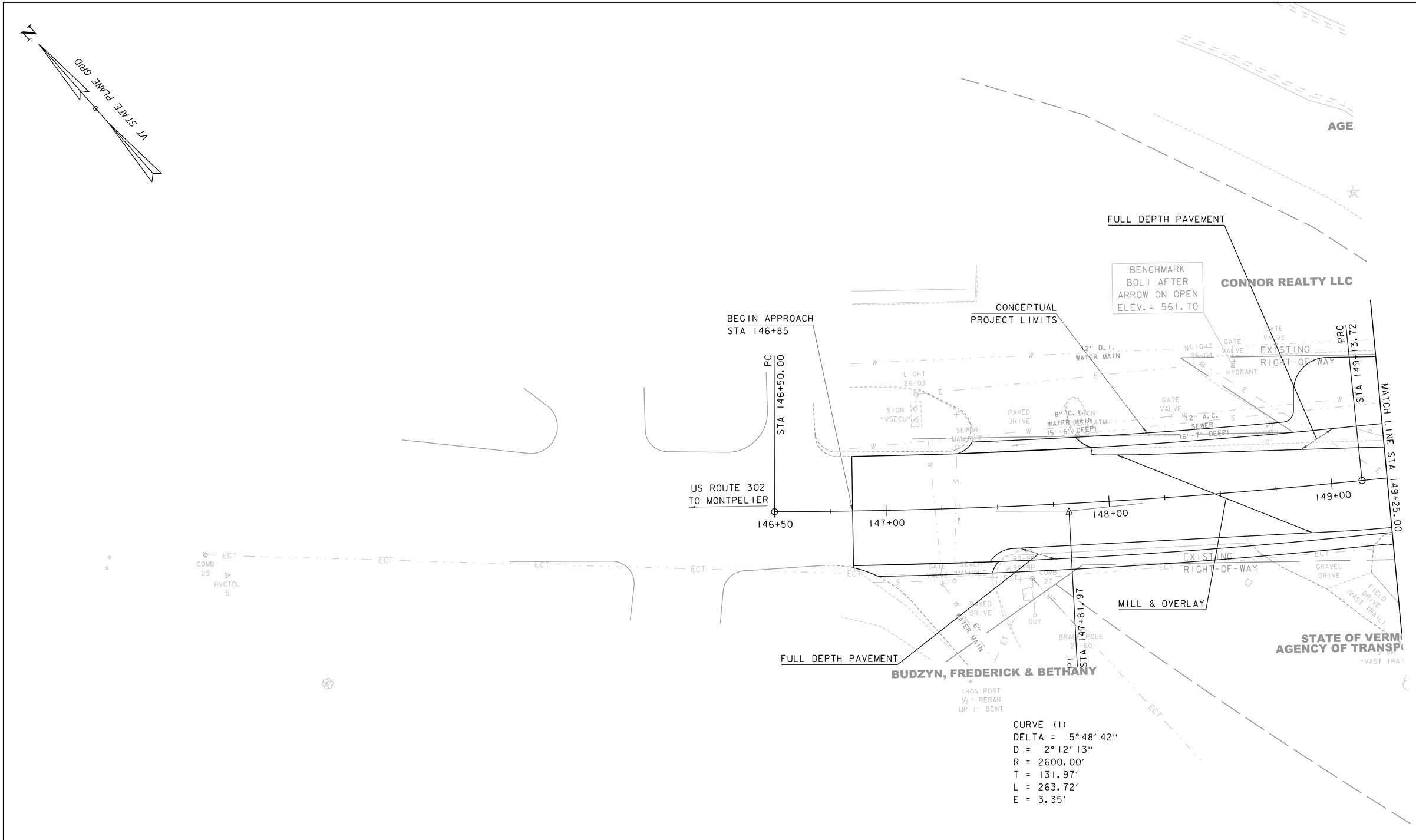


LEGEND

- AREA OF CONSTRUCTION ACTIVITY
- STAGING/LAYDOWN AREA
- DIRECTION OF TRAFFIC
- CHAIN LINK FENCE
- BARRIER
- TEMPORARY IMPACT ATTENUATOR
- REFLECTORIZED DRUM

GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: zl3b254staging.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: P. O'REILLY
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
TRAFFIC STAGING	SHEET 7 OF 21



LAYOUT 1

SCALE 1" = 20'-0"

20 0 20

GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: zl3b254bdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
LAYOUT 1	SHEET 8 OF 21

PROPOSED WHEEL CHAIR RAMP

PROPOSED SIDEWALK

REMOVE OVERHEAD WIRE

REMOVE GUY WIRE
INSTALL PUSH BRACE

℄ BEARINGS
STA 150+00.00

℄ BEARINGS
STA 150+95.00

END BRIDGE
STA 150+96.55

PROPOSED WHEEL CHAIR RAMP

FULL DEPTH PAVEMENT

CONCEPTUAL
PROJECT LIMITS

STATE OF VERMONT
NCY OF TRANSPORTATION

CURVE (2)
DELTA = 4°22'24"
D = 5°12'31"
R = 1100.00'
T = 42.00'
L = 83.96'
E = 0.80'

CURVE (3)
DELTA = 4°28'00"
D = 4°24'27"
R = 1300.00'
T = 50.70'
L = 101.34'
E = 0.99'

BENCHMARK
TOP OF BOLT
AFTER ARROW
ELEV. = 856.98

MALONE 856 US ROUTE 302 PROPERTIES LLC

CIAMPI, GREGORY V.
HEBERT, STELLA K.

ANDREWS, ELLEN
SHADOURI, PAUL
CESARI, GENE

MALONE 921 ROUTE 302 PROPERTIES LLC

MATCH LINE STA 149+25.00

PC STA 149+55.72

PT STA 149+97.69

BEGIN PROJECT
STA 149+37.00

BEGIN BRIDGE
STA 149+98.45

PI STA 151+52.48

PC STA 151+01.78

END PROJECT
STA 151+45.00

PRC STA 152+03.12

PT STA 152+78.27

PT STA 153+53.40

END APPROACH
STA 153+75

POE STA 154+28.40

US ROUTE 302
TO BARRE

CURVE (4)
DELTA = 2°52'12"
D = 1°54'35"
R = 3000.00'
T = 75.15'
L = 150.28'
E = 0.94'

MILL & OVERLAY

STEVENS BRANCH
FLOW

WASHINGTON COUNTY RAIL

2x12" AC SEWER MAIN APPX. 6'-7' BELOW STREAM BED

12" D.I. WATER MAIN APPX. 4' BELOW STREAM BED

8" A.C. SEWER

8" C.I. WATER MAIN

10" A.C. SEWER (6'-7' DEEP)

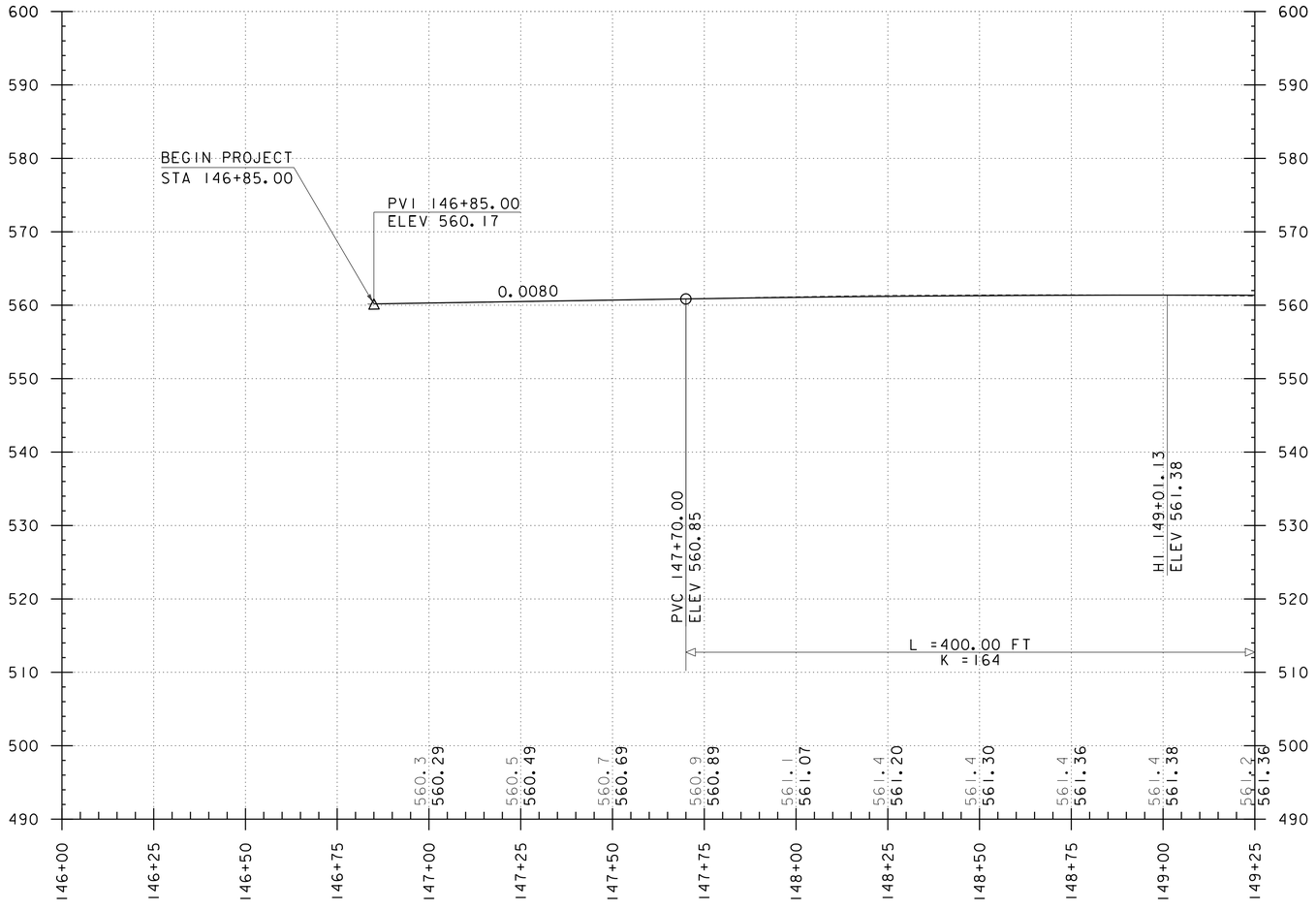
8" C.I. WATER MAIN (5'-6' DEEP)

EXISTING BRIDGE INFO
BUILT 1929, EXPANDED 1941
SINGLE SPAN ROLLED BEAM
STRUCTURE LENGTH = 64 FEET

LAYOUT 2
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: zl3b254bdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A.LEENHOUTS	CHECKED BY: S. CARPENTER
LAYOUT 2	SHEET 9 OF 21

GILL ENGINEERING

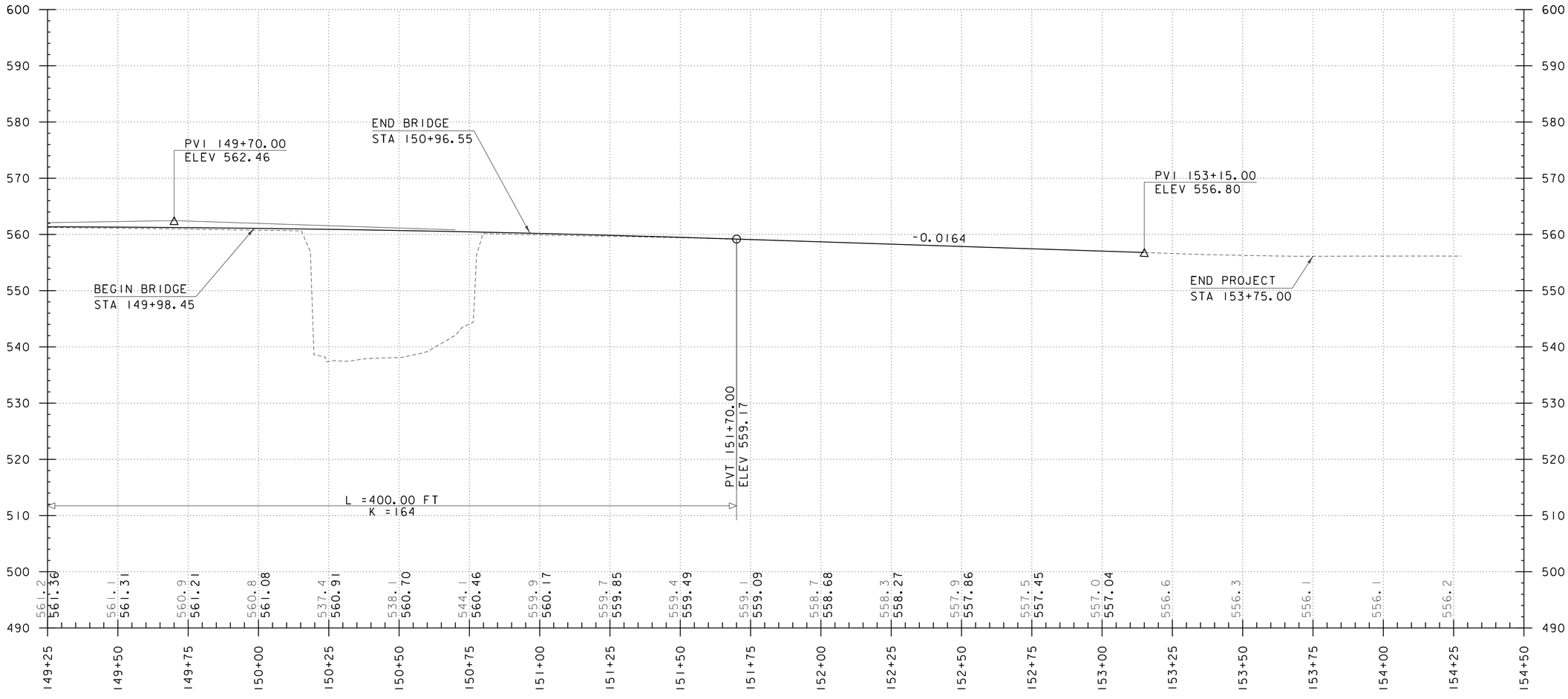


US ROUTE 302 PROFILE

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

GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13b254bdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A.LEENHOUTS	CHECKED BY: S. CARPENTER
PROFILE 1	SHEET 10 OF 21



US ROUTE 302 PROFILE

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

GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13b254bdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
PROFILE 2	SHEET 11 OF 21

N

VT STATE PLANE GRID

REMOVE AND RESET EXIST SIGNS

BENCHMARK
TOP OF BOLT
AFTER ARROW
ELEV. = 556.98

BENCHMARK
BOLT AFTER
ARROW ON OPEN
ELEV. = 561.70

HVCTRL
100

HVCTRL
102

HVCTRL
103

HVCTRL
104

HVCTRL
105

HVCTRL
106

HVCTRL
101

STONE FILL

STONE FILL

STONE FILL

LIGHT
26-04

LIGHT
26-03

EXISTING
RIGHT-OF-WAY

SIGN
"VSECU"

PAVED
DRIVE

SIGN
"ENTER ATM"

TIE
DIST=46.43

TIE
DIST=63.09

TIE
DIST=65.18

IRON POST
REBAR W/ CAP
PROPERTY DESIGN VT

SIGN
VD-70L
BRIDGE 3

SIGN
R2-1
(40)

WASHINGTON
COUNTY RAIL

8'

US ROUTE 302
TO MONTPELIER

SIGN
R3-9R

SIGN
R3-9P

COMB
27

PAVED
DRIVE

EXISTING
RIGHT-OF-WAY

GRAVEL
DRIVE

FIELD
DRIVE
(VAST TRAIL)

SIGN
W10-1

COMB
28

SIGN
VD-76N
(BRIDGE 3
US 302)
MILE MARKER
0302
0091

SIGN
W3-3

COMB
149
29
82926

IRON POST
SET IN
PAVEMENT

PAVED
DRIVE

SIGN
"HARRYS
PHARMACY"

MATCH EXISTING
BIKE LANE

RETAIN EXIST SIGNS

SIGN
"VAST TRAIL"

IRON POST
1/2" REBAR
UP 1" BENT

IRON POST
1/2" REBAR
UP 4"

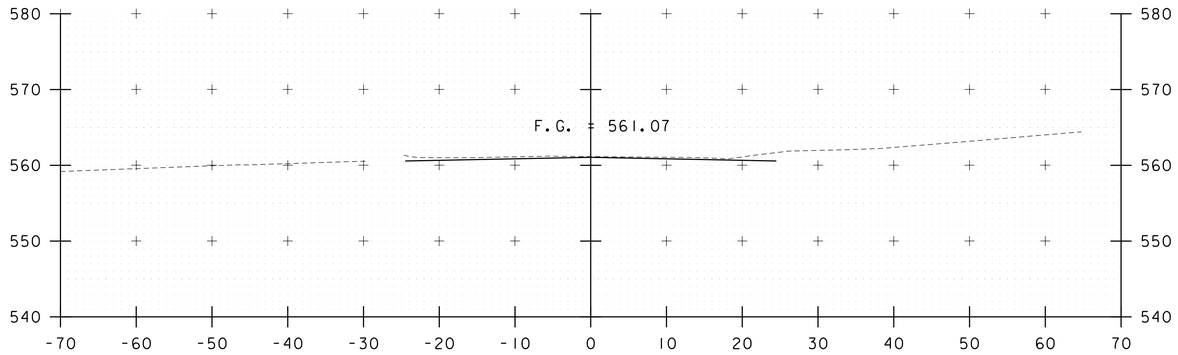
ELECTRIC POLE
29-101

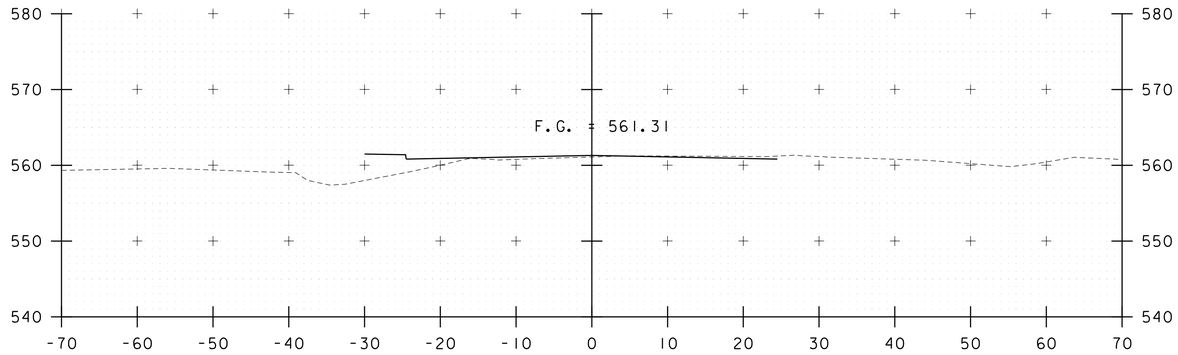
STEVENS BRANCH
FLOW

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

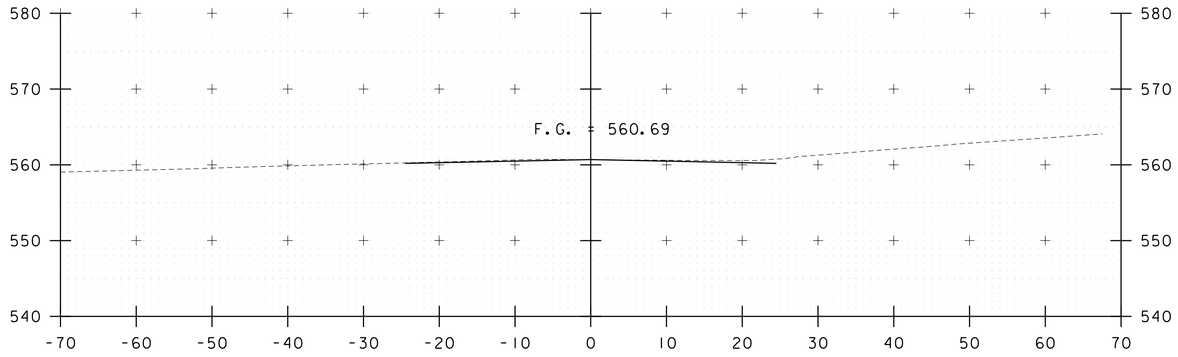
GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13b254trafssbdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
TRAFFIC SIGNS AND LINES	SHEET 12 OF 21



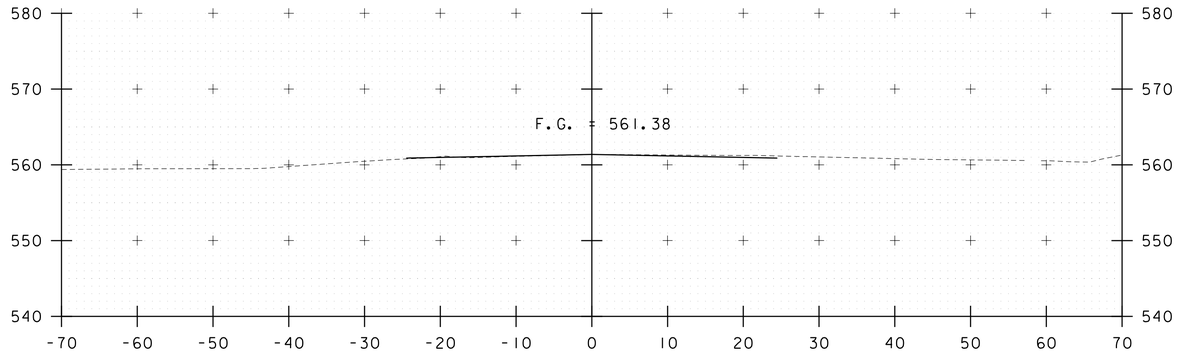


148+00

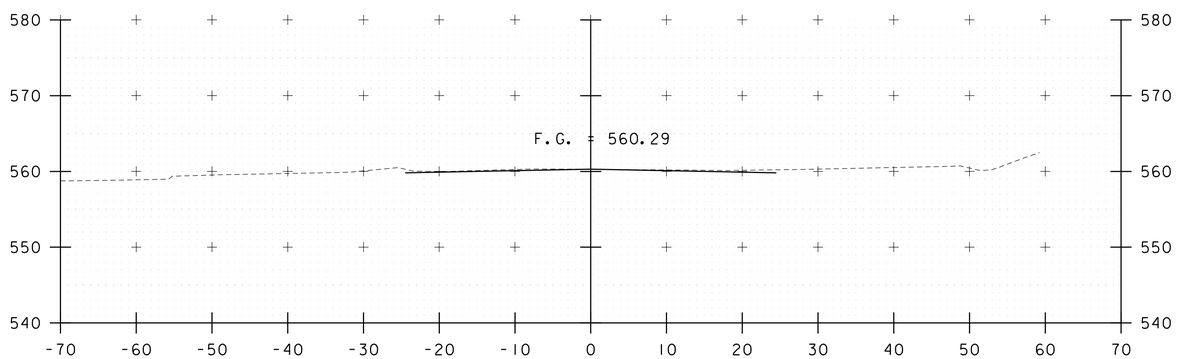


STA 149+37
BEGIN PROJECT

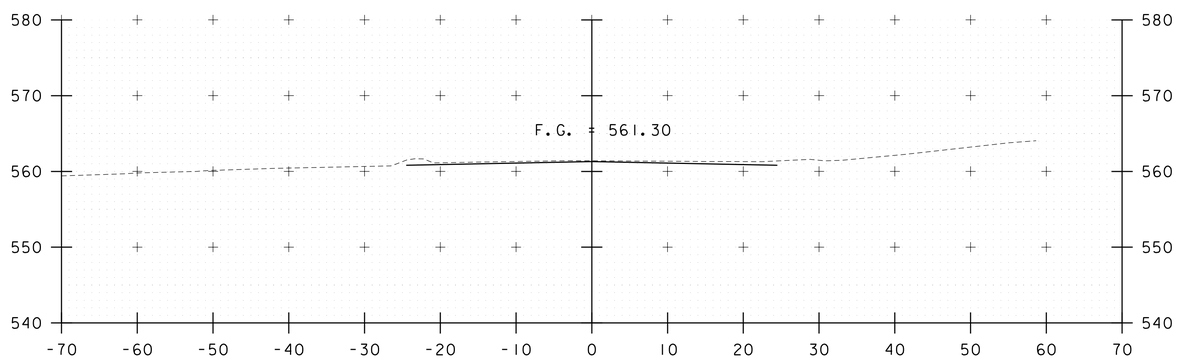
149+50



147+50



149+00



STA 146+85
BEGIN APPROACH

147+00

148+50

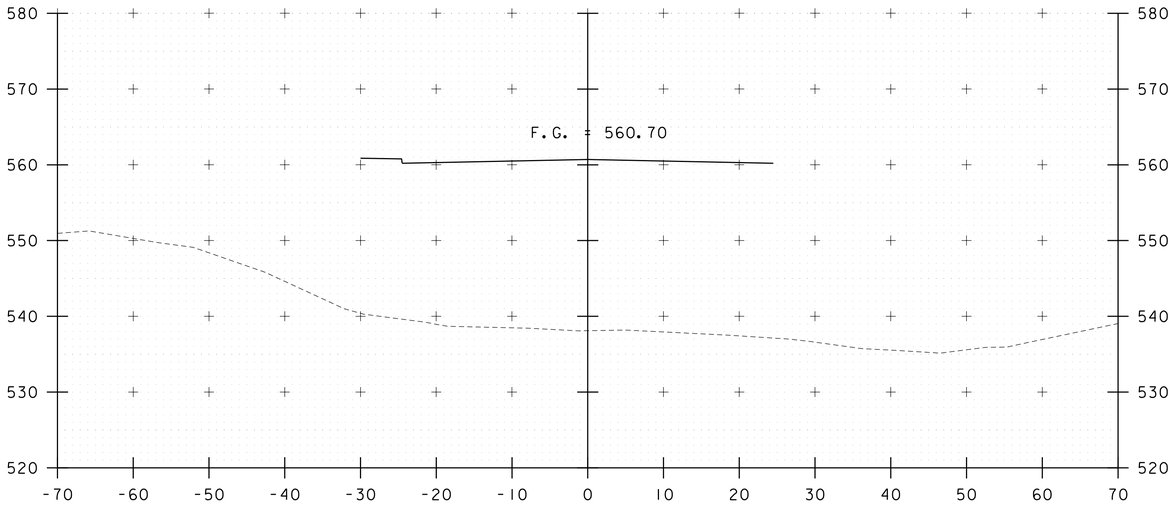
STA. 147+00 TO STA. 149+50

GILL ENGINEERING

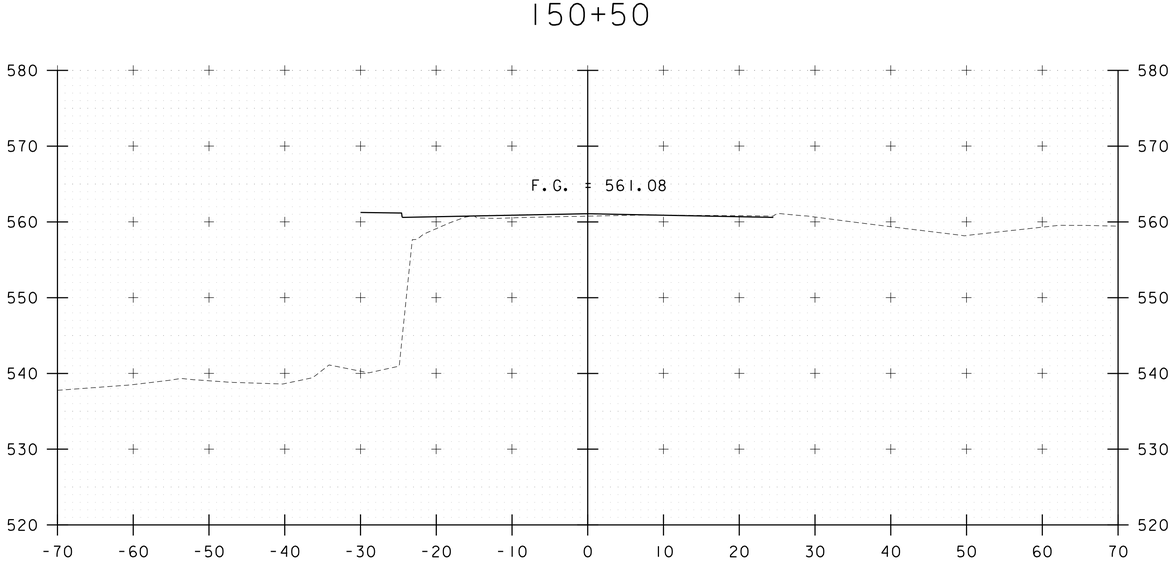
PROJECT NAME: BERLIN
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254xs.dgn
PROJECT LEADER: A.SPERA
DESIGNED BY: A. LEENHOUTS
CROSS SECTIONS 1

PLOT DATE: 9/17/2019
DRAWN BY: A. LEENHOUTS
CHECKED BY: S. CARPENTER
SHEET 13 OF 21

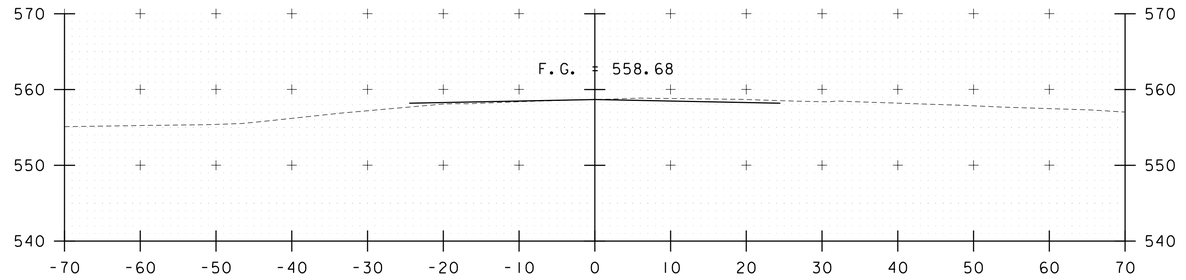


150+50

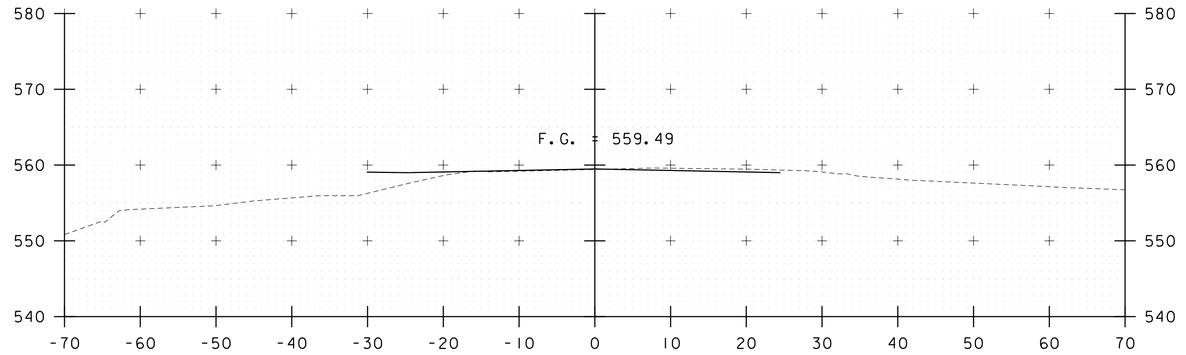


STA 149+98.45
BEGIN BRIDGE

150+00

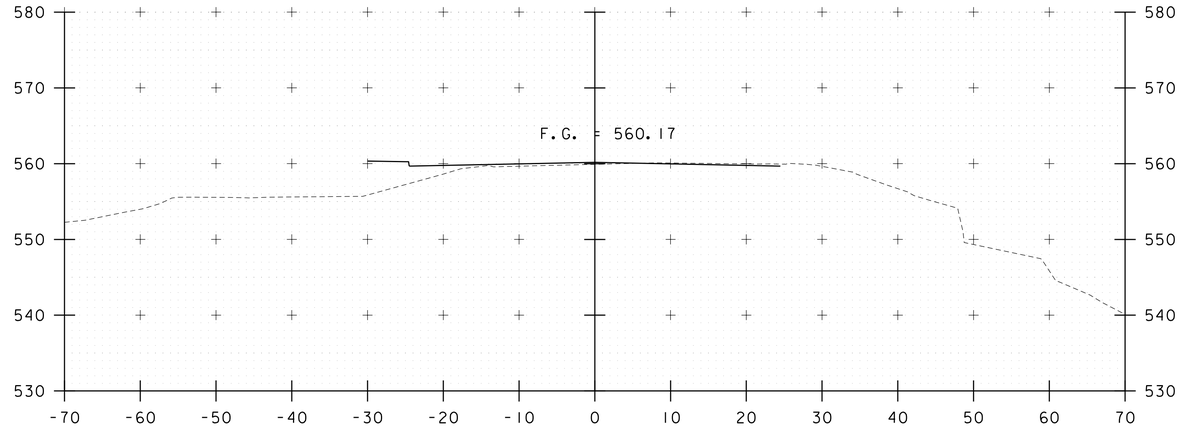


152+00



STA 151+45
END PROJECT

151+50



STA 150+96.55
END BRIDGE

151+00

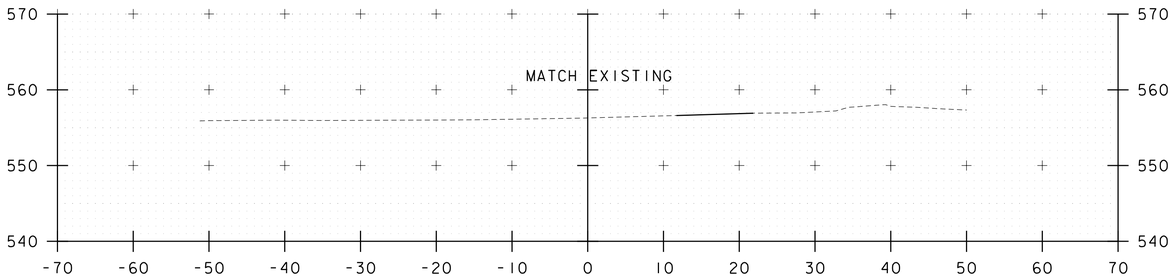
STA. 150+00 TO STA. 152+00

GILL ENGINEERING

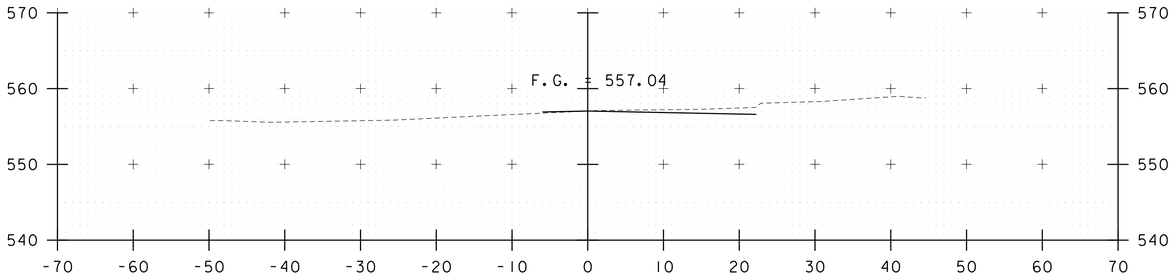
PROJECT NAME: BERLIN
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254xs.dgn
PROJECT LEADER: A.SPERA
DESIGNED BY: A. LEENHOUTS
CROSS SECTIONS 2

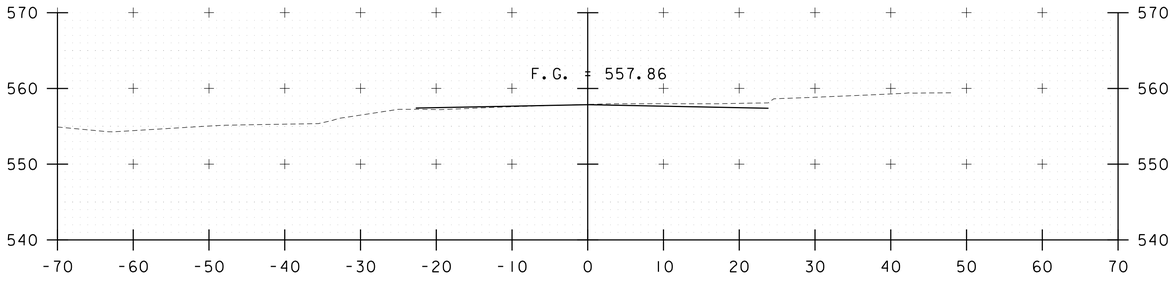
PLOT DATE: 9/17/2019
DRAWN BY: A. LEENHOUTS
CHECKED BY: S. CARPENTER
SHEET 14 OF 21



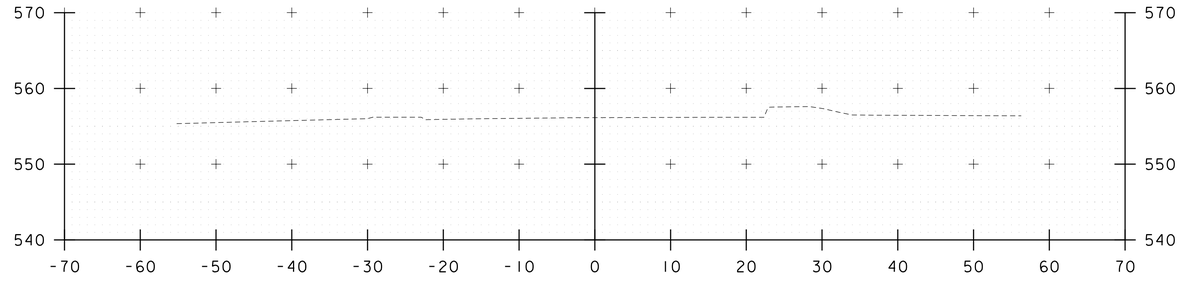
153+50



153+00



152+50



STA 153+75
END APPROACH

154+00

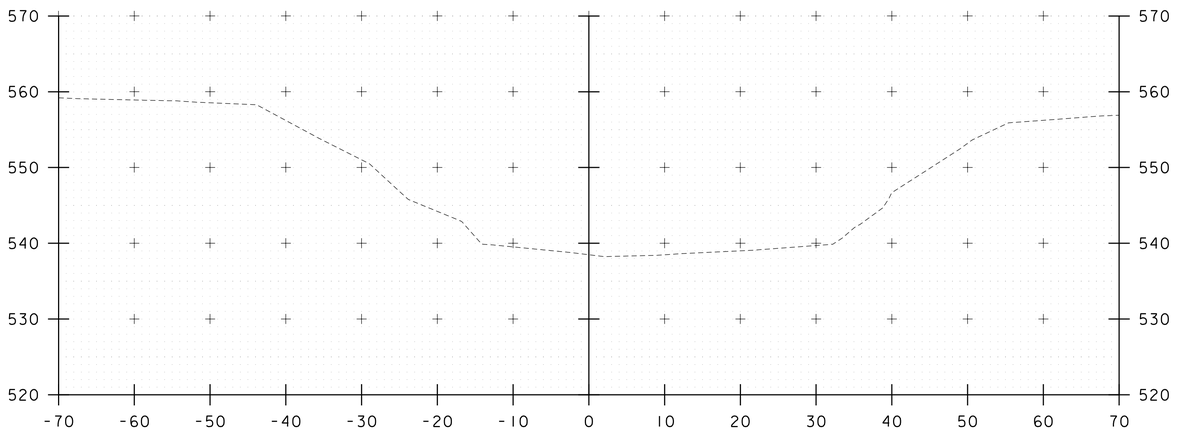
STA. 150+52 TO STA. 154+00

GILL ENGINEERING

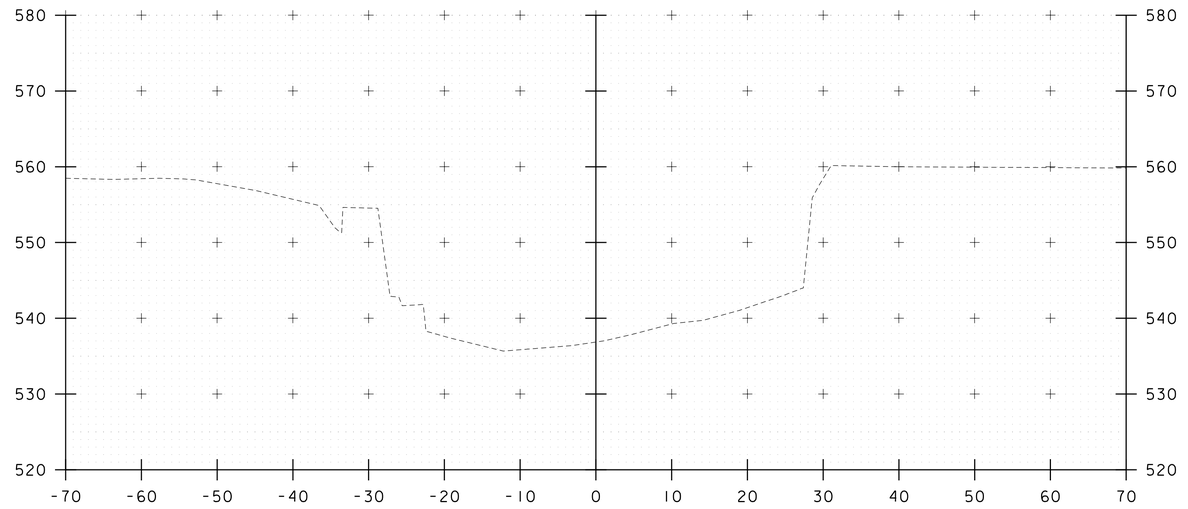
PROJECT NAME: BERLIN
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254xs.dgn
PROJECT LEADER: A.SPERA
DESIGNED BY: A. LEENHOUTS
CROSS SECTIONS 3

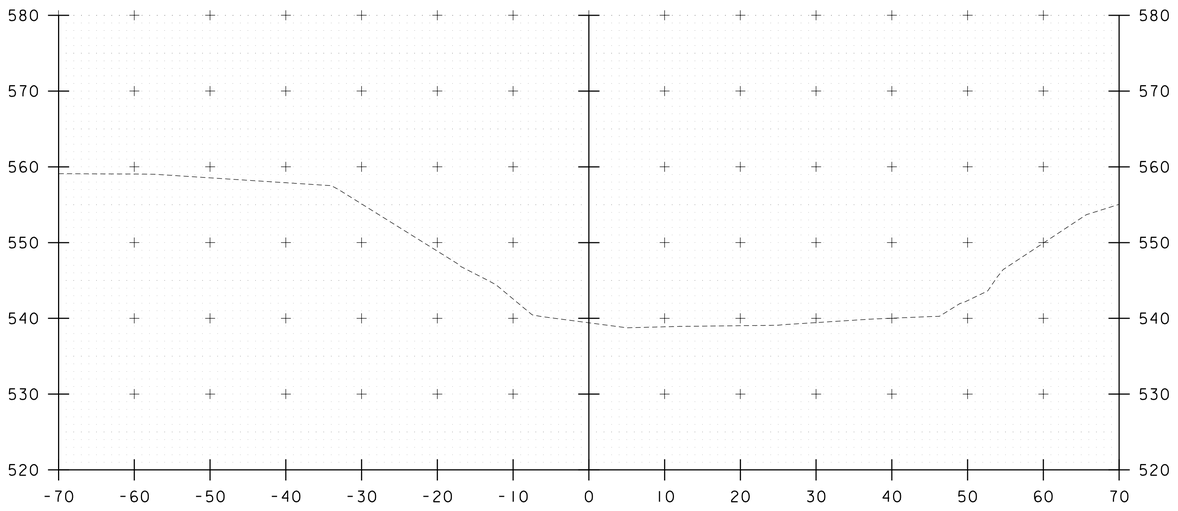
PLOT DATE: 9/17/2019
DRAWN BY: A. LEENHOUTS
CHECKED BY: S. CARPENTER
SHEET 15 OF 21



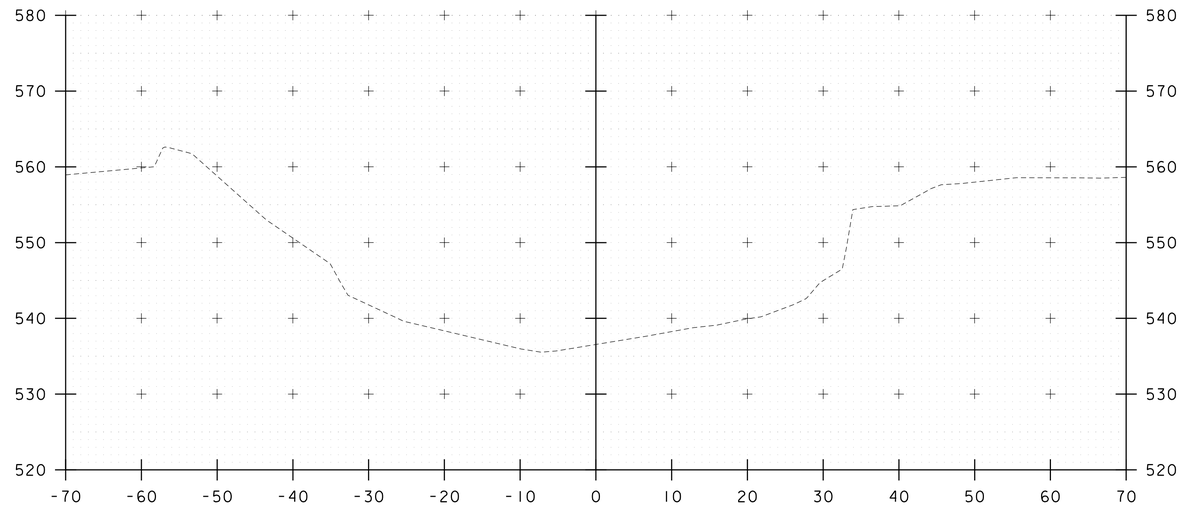
50+25



50+75



50+00

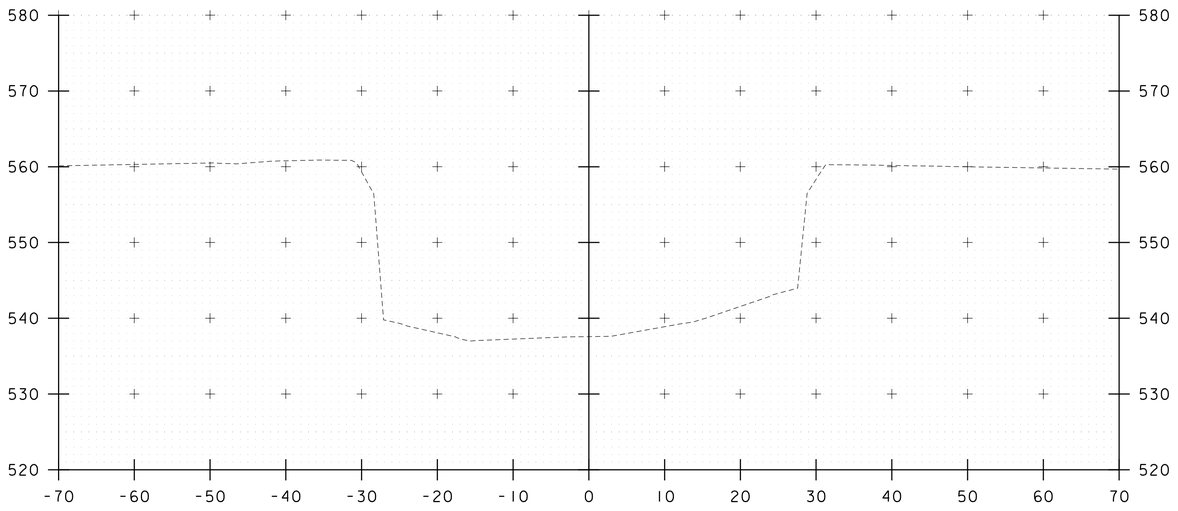


50+50

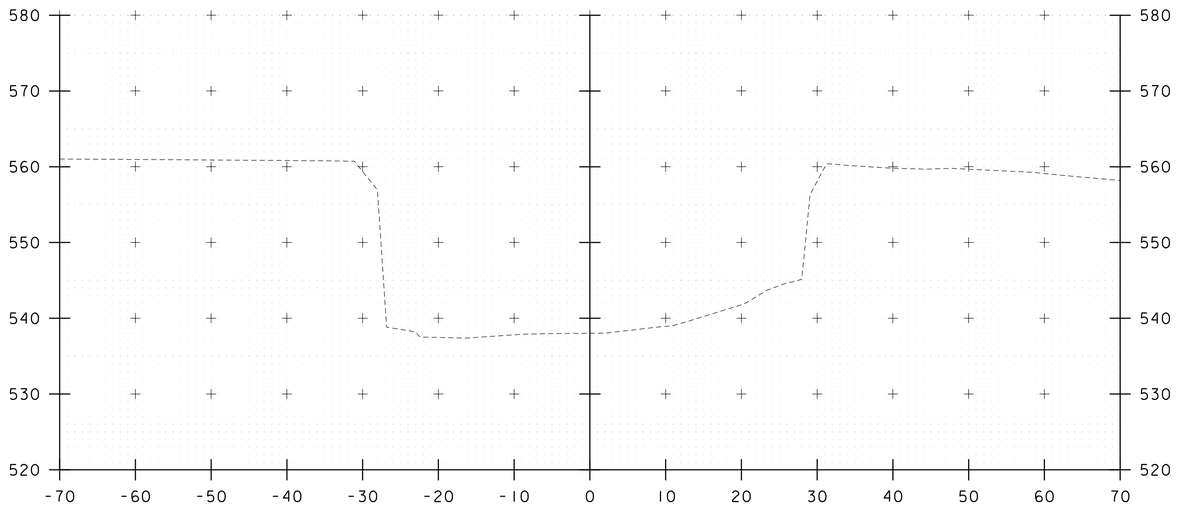
STA. 50+00 TO STA. 50+75

GILL ENGINEERING

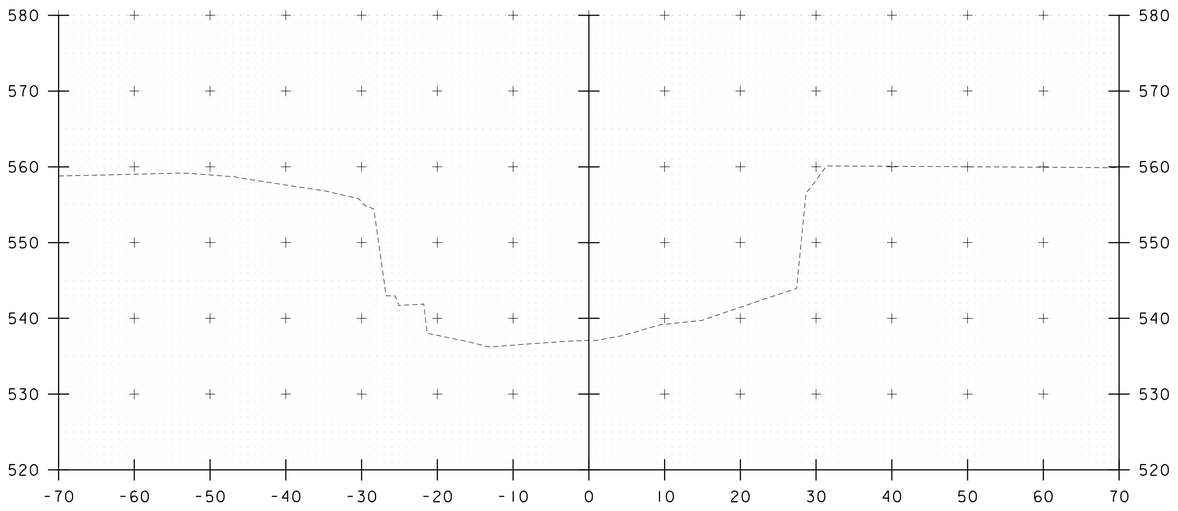
PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13b254xs.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
CHANNEL CROSS SECTIONS 1	SHEET 16 OF 21



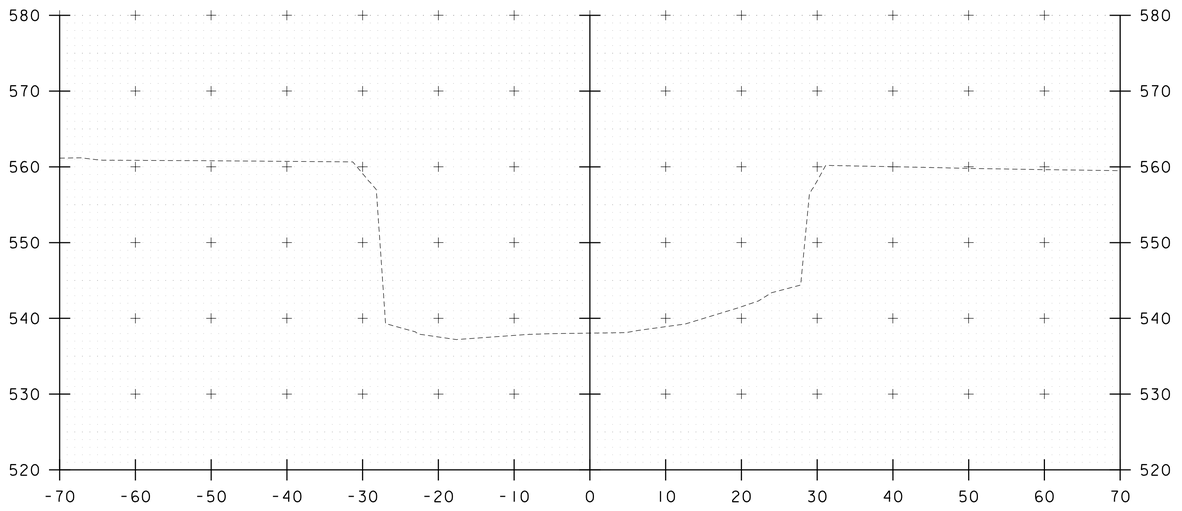
50+90



51+10



50+80

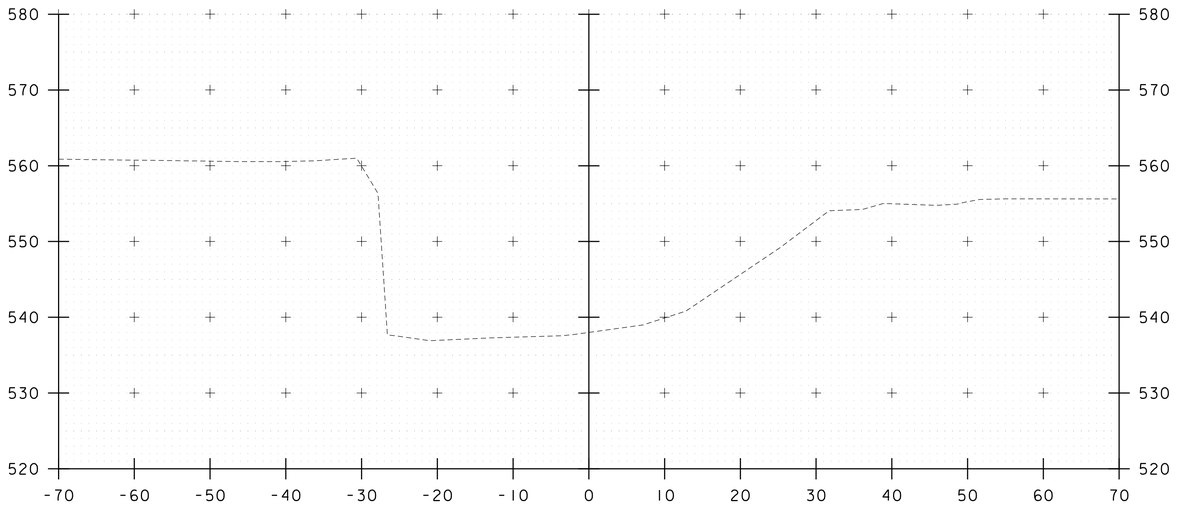


51+00

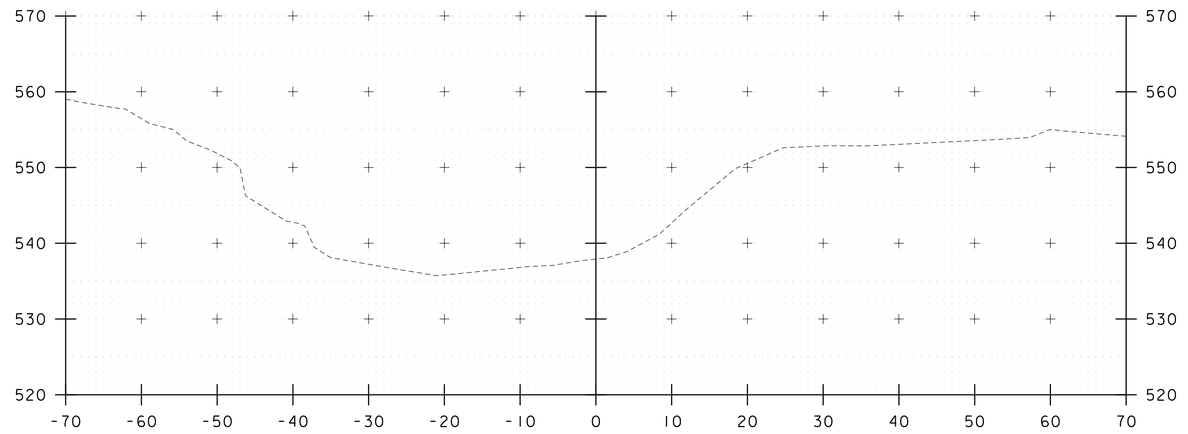
STA. 50+80 TO STA. 51+10

GILL ENGINEERING

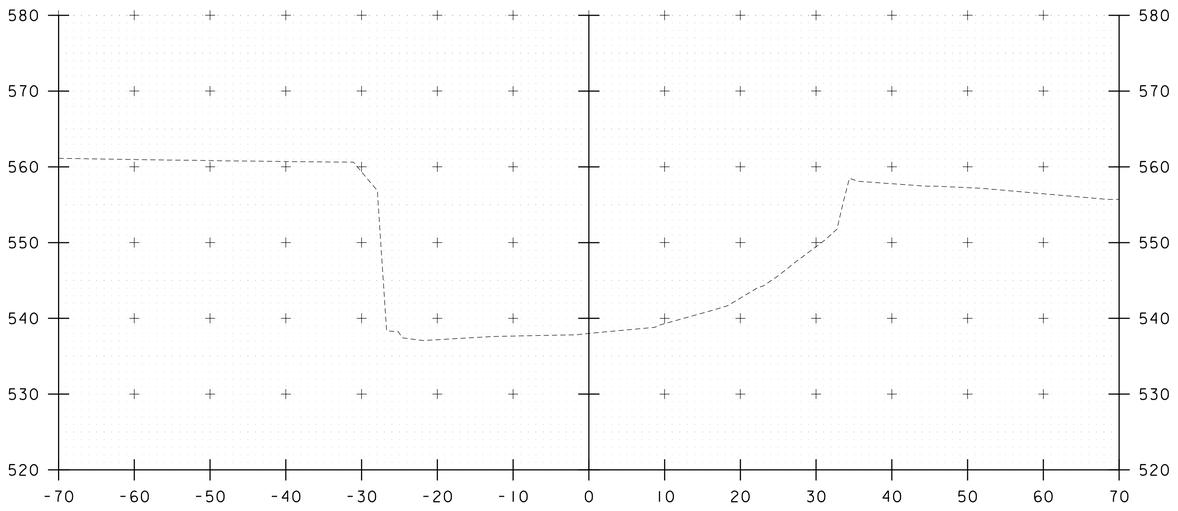
PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-1(43)	
FILE NAME: z13b254xs.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
CHANNEL CROSS SECTIONS 2	SHEET 17 OF 21



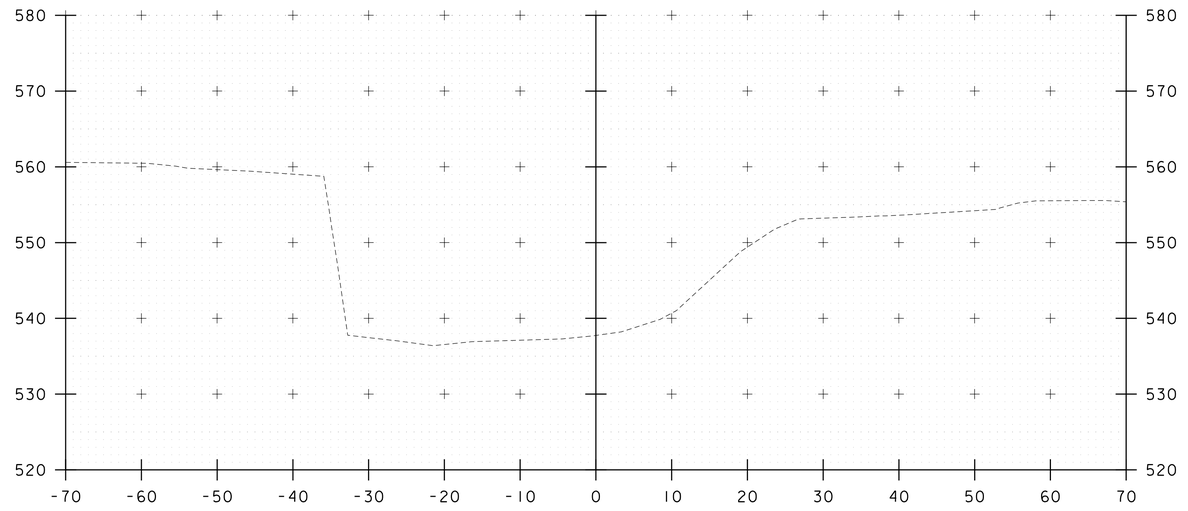
51+30



51+50



51+20



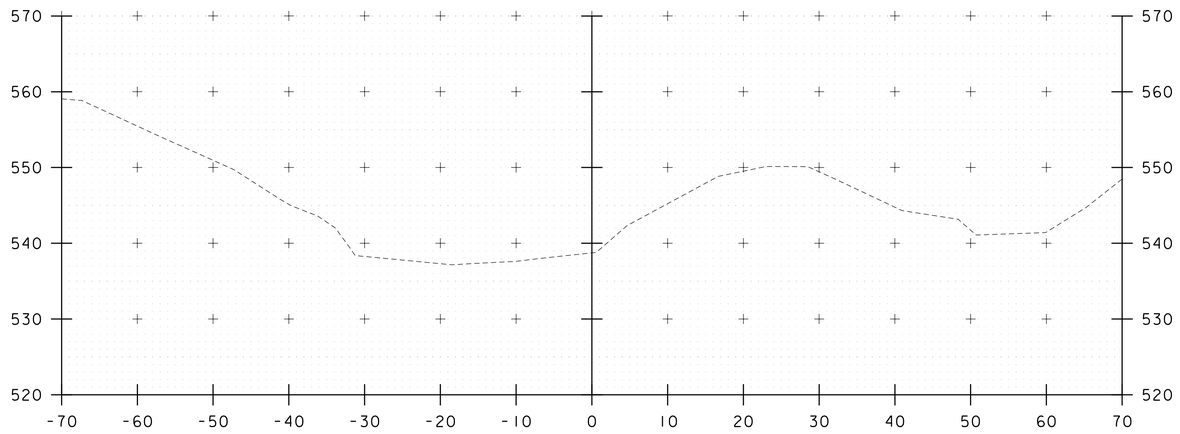
51+40

STA. 51+10 TO STA. 51+50

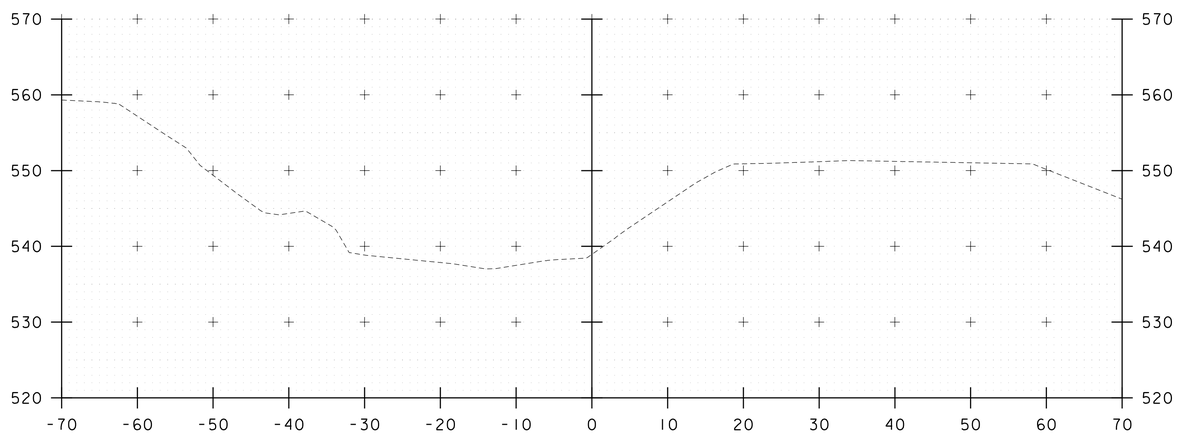
GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)

FILE NAME: z13b254xs.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
CHANNEL CROSS SECTIONS 3	SHEET 18 OF 21



52+00



51+75

STA. 51+75 TO STA. 52+00

GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: z13b254xs.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: S. CARPENTER
CHANNEL CROSS SECTIONS 4	SHEET 19 OF 21

N

VT STATE PLANE GRID

SOIL CLASSIFICATION:
BUXTON SILT LOAM
15-25% SLOPES

SOIL CLASSIFICATION:
WATER

SOIL CLASSIFICATION:
URBAN LAND -
UDIPSAMMENTS COMPLEX
OCCASIONALLY FLOODED
"K" FACTOR 0.05
LOW ERODIBILITY

SOIL CLASSIFICATION:
BUCKLAND LOAM
VERY STONY
15-35% SLOPES

BENCHMARK
BOLT AFTER
ARROW ON OPEN
ELEV. = 561.70

EXISTING
RIGHT-OF-WAY

MATCH LINE STA 149+25.00

12" D.I.
WATER MAIN

GATE
VALVE

LIGHT
26-04

HYDRANT

LIGHT
26-03

SIGN
"VSECU"

PAVED
DRIVE

8" C.I.
WATER MAIN
(5'-6' DEEP)

SIGN
"ATM"

12" A.C.
SEWER
(16'-17' DEEP)

SEWER
MANHOLE

EXISTING RIGHT-OF-WAY

US ROUTE 302
TO MONTPELIER

146+50
147+00
148+00
149+00

ECT

COMB
25

HVCTRL
5

SIGN
R3-9B
R3-9P

GATE
VALVE

SEWER
MANHOLE

COMB
22

PAVED
DRIVE

GUY

6" CI
WATER MAIN

BRACE POLE
27-60

EXISTING
RIGHT-OF-WAY

GRAVEL
DRIVE

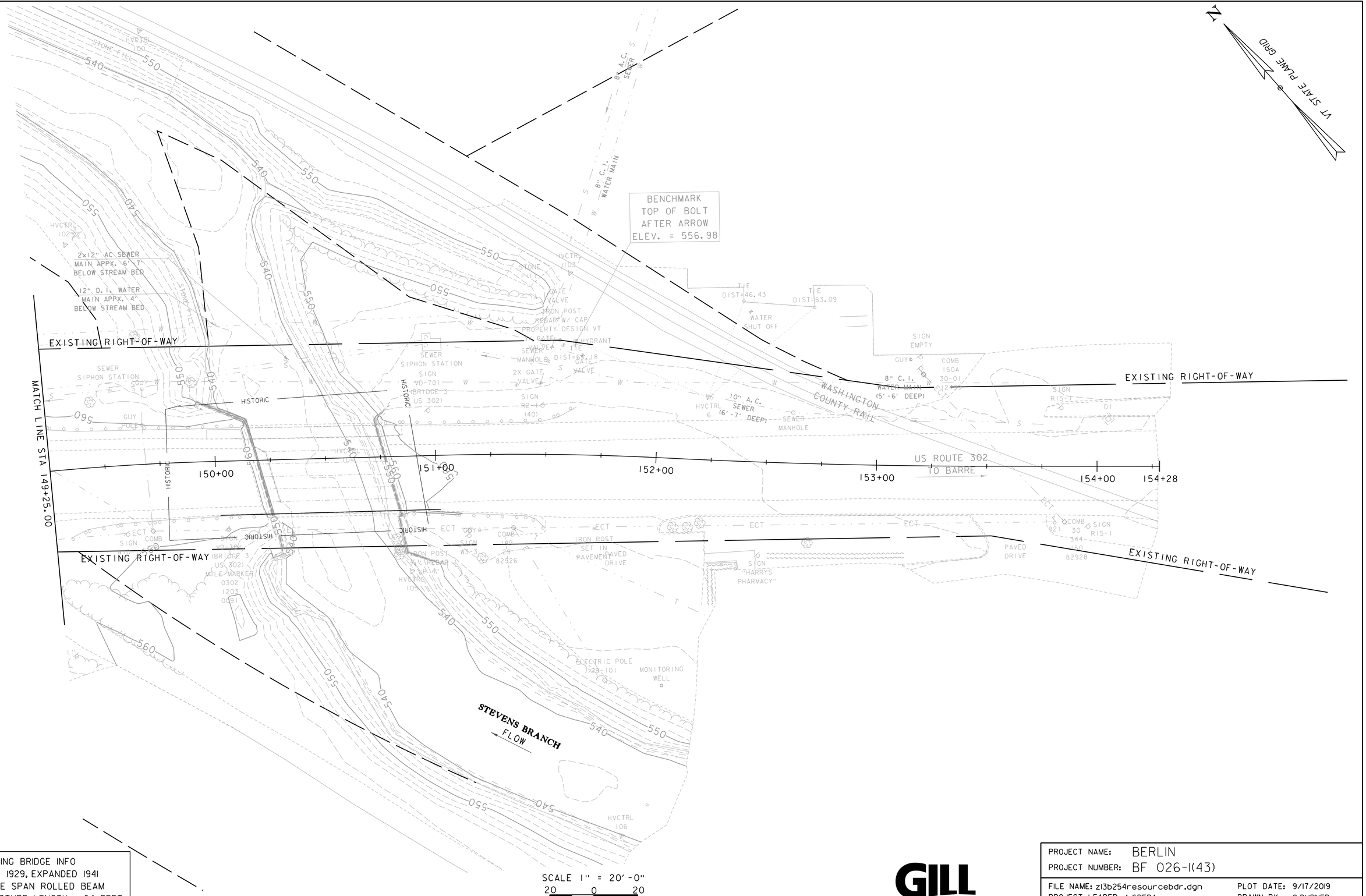
FIELD
DRIVE

IRON POST
½" REBAR
UP 1' BENT

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

GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: zl3b254resourcebdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: C. BURNER
DESIGNED BY: C. BURNER	CHECKED BY: A. SPERA
RESOURCE SITE PLAN 1	SHEET 20 OF 21



GILL ENGINEERING

PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME: zl3b254resourcebdr.dgn	PLOT DATE: 9/17/2019
PROJECT LEADER: A.SPERA	DRAWN BY: C.BURNER
DESIGNED BY: C. BURNER	CHECKED BY: A. SPERA
RESOURCE SITE PLAN 2	SHEET 21 OF 21