REVIEWER NOTES:

I. THIS PROJECT IS INTENDED TO BE CONSTRUCTED ALONG WITH THREE OTHER STRUCTURES PROJECTS ON THE VT II CORRIDOR.

2. OTHER VTRANS CORRIDOR PROJECTS HAVE BEEN IDENTIFIED THAT WILL CAUSE ADDITIONAL TRAFFIC IMPACTS IN THE AREA OF THIS PROJECT. SEE TMP SECTION ONE FOR DISCUSSION OF REGIONAL PROJECT IMPACTS. PROJECT MANAGERS WILL WORK TO RESOLVE THESE CONFLICTS.

3. A 15 DAY BRIDGE CLOSURE PERIOD IS ANTICIPATED.

4. RELOCATION OF THE GRAVITY SEWER IS REQUIRED FOR INSTALLATION OF THE NEW STRUCTURE. ALDRICH + ELLIOTT WATER RESOURCE ENGINEERS HAS BEEN RETAINED BY THE TOWN OF SPRINGFIELD TO DESIGN THE SUBSURFACE UTILITY RELOCATION. LOGISTICS TO INCORPORATE THE SEWER RELOCATION INTO THIS PROJECT ARE TO BE DETERMINED.

5. ALL SUBSURFACE UTILITY ELEVATIONS ARE TO BE DETERMINED AND HAVE BEEN ASSUMED FOR THE GENERATION OF THESE PLANS.

6. TEMPORARY RELOCATION OF STREAM IS ANTICIPATED TO BE SOUTHEAST OF THE EXISTING STRUCTURE. PROJECT LIMITS HAVE BEEN CONSIDERED TO ACCOMODATE FOR THE TEMPORARY RELOCATION OF STREAM.

7. PROTECTION OF THE EXISTING 16" WATER MAIN TO THE SOUTHEAST OF THE STRUCTURE WILL BE REQUIRED DURING THE TEMPORARY RELOCATION OF STREAM.

8. RELOCATION OF THE SUBSURFACE FIBER OPTIC FROM VTIL 196+50 -197+50 LT WILL BE REQUIRED FOR THE INSTALLATION OF THE NEW STRUCTURE.

9. CORRESPONDENCE FROM VTRANS HAZARDOUS MATERIALS ENGINEER, ANDY SHIVELY, 3-12-2018: THIS PROJECT WILL ENCOUNTER CONTAMINATED SOIL AND IS CHARACTERIZED AS UNAVOIDABLE. THIS SITE IS CURRENTLY CONSIDERED CLOSED BY THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. A SITE SPECIFIC SPECIAL PROVISION WILL CALL OUT ALL KNOWN INFORMATION AND REQUIRE THE BIDDING CONTRACTOR TO ENGAGE THE RESPONSIBLE PARTY (OR THEIR DELEGATED ENVIRONMENTAL PARTY, CONSULTANT) TO ENSURE PLANNING AND OVERSIGHT FOR REMEDIATION OF CONTAMINATED MATERIAL DURING CONSTRUCTION. THE PRIMARY RESPONSIBLE PARTY HAS NOT BEEN ESTABLISHED.

IO. THIS PROJECT WILL UTILIZE THE VT DEC LOW RISK SITE HANDBOOK END BRIDGE FOR EPSC. NO SITE-SPECIFIC EPSC PLAN IS INCLUDED. THE CONTRACTOR STA 197+20.38 SHALL SUBMIT A SITE-SPECIFIC EPSC PLAN TO VTRANS UPON CONTRACT AWARD IN ACCORDANCE WITH THEIR MEANS AND METHODS.

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 : R.GILMAN SURVEYED DATE : 05-25-2016

DATUM VERTICAL NAVD88 HORIZONTAL NAD 83 (1996) BEGIN BRIDGE STA 196+96.10

BEGIN PROJECT STA 196+50.00 (MM=3.7365)

VT ROUTE ,

ROUTE NO : VT ROUTE II CULVERT NO: 61

PROJECT DESCRIPTION : WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES REPLACEMENT OF EXISTING STRUCTURE (BRIDGE #61) WITH A NEW STRUCTURE WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

STATE OF VERMONT AGENCY OF TRANSPORTATION



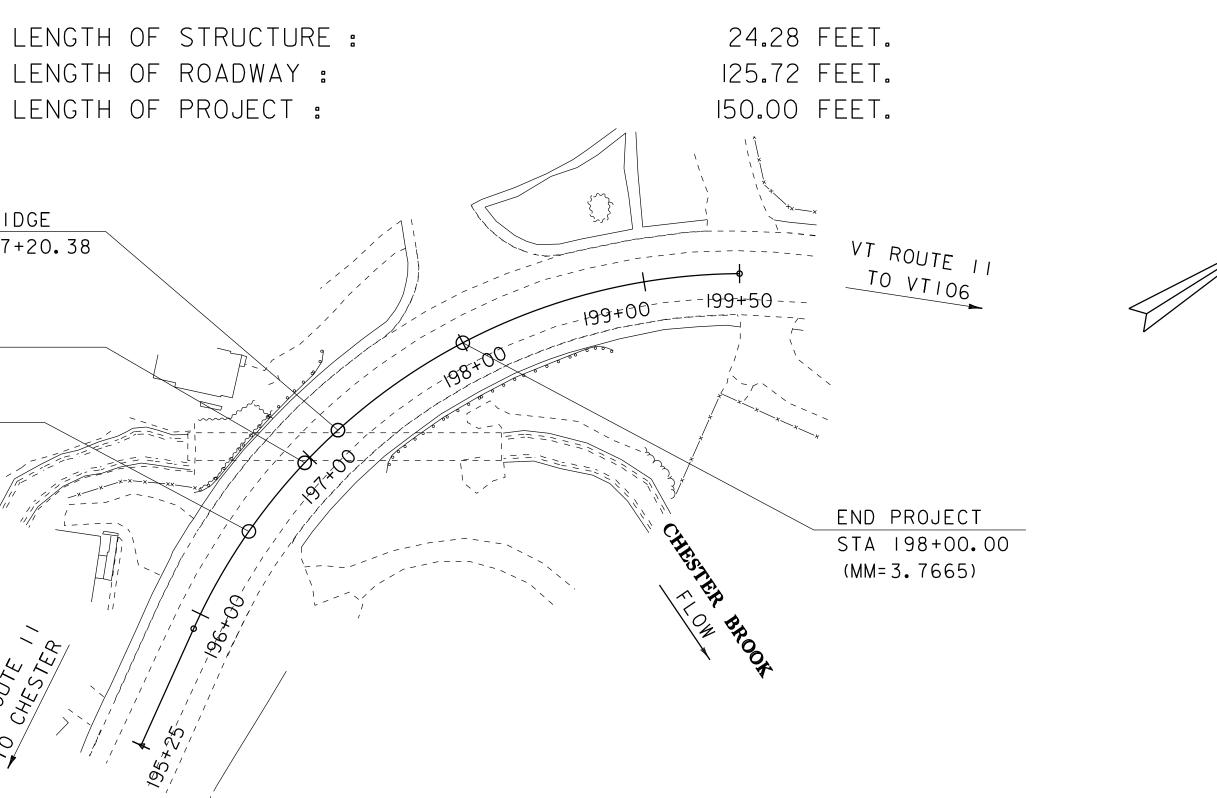
PROPOSED IMPROVEMENT

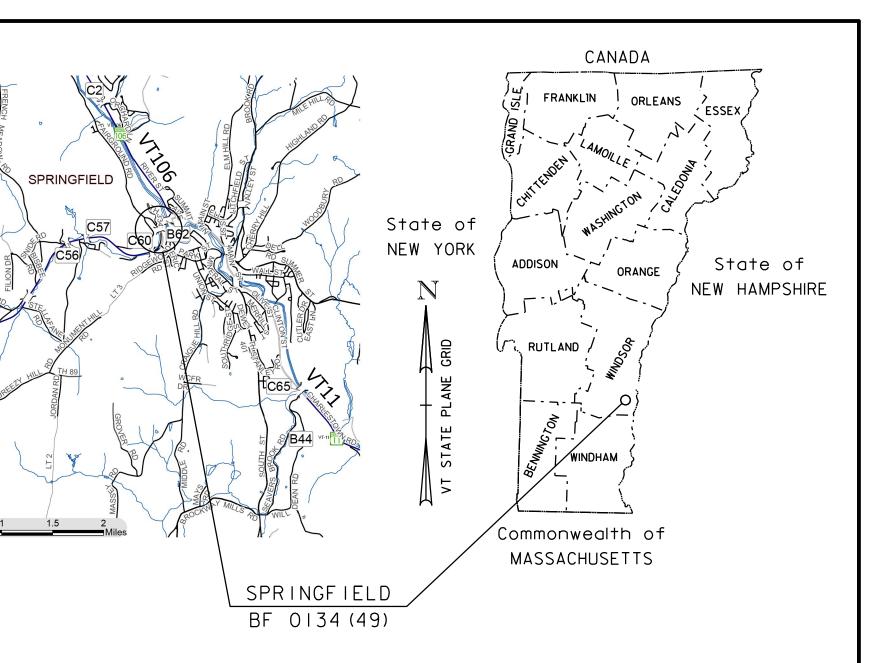
BRIDGE PROJECT

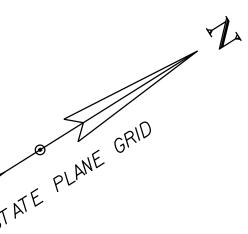
TOWN OF SPRINGFIFID

COUNTY OF WINDSOR

PROJECT LOCATION : 0.28 MILES FROM THE INTERSECTION OF VTIL AND VTIO6 IN SPRINGFIELD VT. WEST ON VT II. AT THE CHESTERFIELD BROOK.







PRELIMINARY PLANS 07-FEB-2019

	HIGHWAY DIVISION, CHIEF ENGINEER		
	APPROVED DATE		
	PROJECT MANAGER : NICK WARK, P.E.		
SCALE I'' = 50'-0'' 5 <u>0 0</u> 50	PROJECT NAME : SPRINGFIELD PROJECT NUMBER : BF 0134 (49)		
	SHEET I OF 32 SHEETS 32		

STATE OF VERMONT AGENCY OF TRANSPORTATION



INDEX OF SHEETS

	PLAN SHEETS		STANDARDS LIST	
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2	PRELIMINARY INFORMATION SHEET	C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AD	10-14-2005
3 - 4	TYPICAL SECTIONS SHEET 1-2	C-3A	SIDEWALK RAMPS	03-10-2008
5	PLAN SYMBOLOGY LEGEND	C-10	CURBING	02-11-2008
6	TIE SHEET	E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
7	ALIGNMENT SHEET	E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-1995
8	EXISTING CONDITIONS	E-191	PAVEMENT MARKING DETAILS	02-01-1999
9	LAYOUT SHEET	G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	03-10-2017
10	TRAFFIC SIGN & LINE LAYOUT	G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
11	TRAFFIC SIGN SUMMARY	G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11-15-2002
12	VT11 PROFILE & BANKING DIAGRAM	J-3	MAIL BOX SUPPORT DETAILS	08-07-1995
13	MATERIAL TRANSITION	T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
14	PLAN AND PROFILE SHEET	T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
15	REGIONAL DETOUR	T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08-06-2012
16	AERIAL UTILITY LAYOUT SHEET	T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
17	SUBSURFACE UTILITY LAYOUT SHEET	T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
18	BORING INFORMATION SHEET	T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
19 - 21	BORING LOG SHEETS 1-3	T-31	CONSTRUCTION SIGN DETAILS	08-06-2012
22	RAIL LAYOUT SHEET	T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08-06-2012
23 - 26	MAINLINE SECTIONS 1-4	T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08-06-2012
27 - 32	CHANNEL SECTIONS 1-6	T-40	DELINEATORS AND MILEPOSTS	01-02-2013
		T-42	BRIDGE NUMBER PLAQUE	04-09-2014
		T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-502.00	CONCRETE DETAILS AND NOTES	5/7/2010
HSD-400.01	SAFETY EDGE DETAILS	1/5/2018
HSD-621.01	POST AND BLOCKOUT DETAILS FOR STEEL BEAM GUARDRAIL,	GALV. 6/9/2015
HSD-621.06	GUARDRAIL TERMINAL LABEL DETAIL	2/27/2017

	TRAFFIC DATA							UILT "REBAR" D	ETAIL
							LEVEL I	LEVEL II	LEVEL III
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2018 to 2038 : 0	TYPE:	TYPE:	TYPE:
2018	7900	1100	51	5.5	440	40 year ESAL for flexible pavement from 2018 to 2058 : 0	GRADE:	GRADE:	GRADE:
2038	8900	1200	51	7.7	700	Design Speed : 25 mph			

PRELIMINARY INFORMATION SHEET



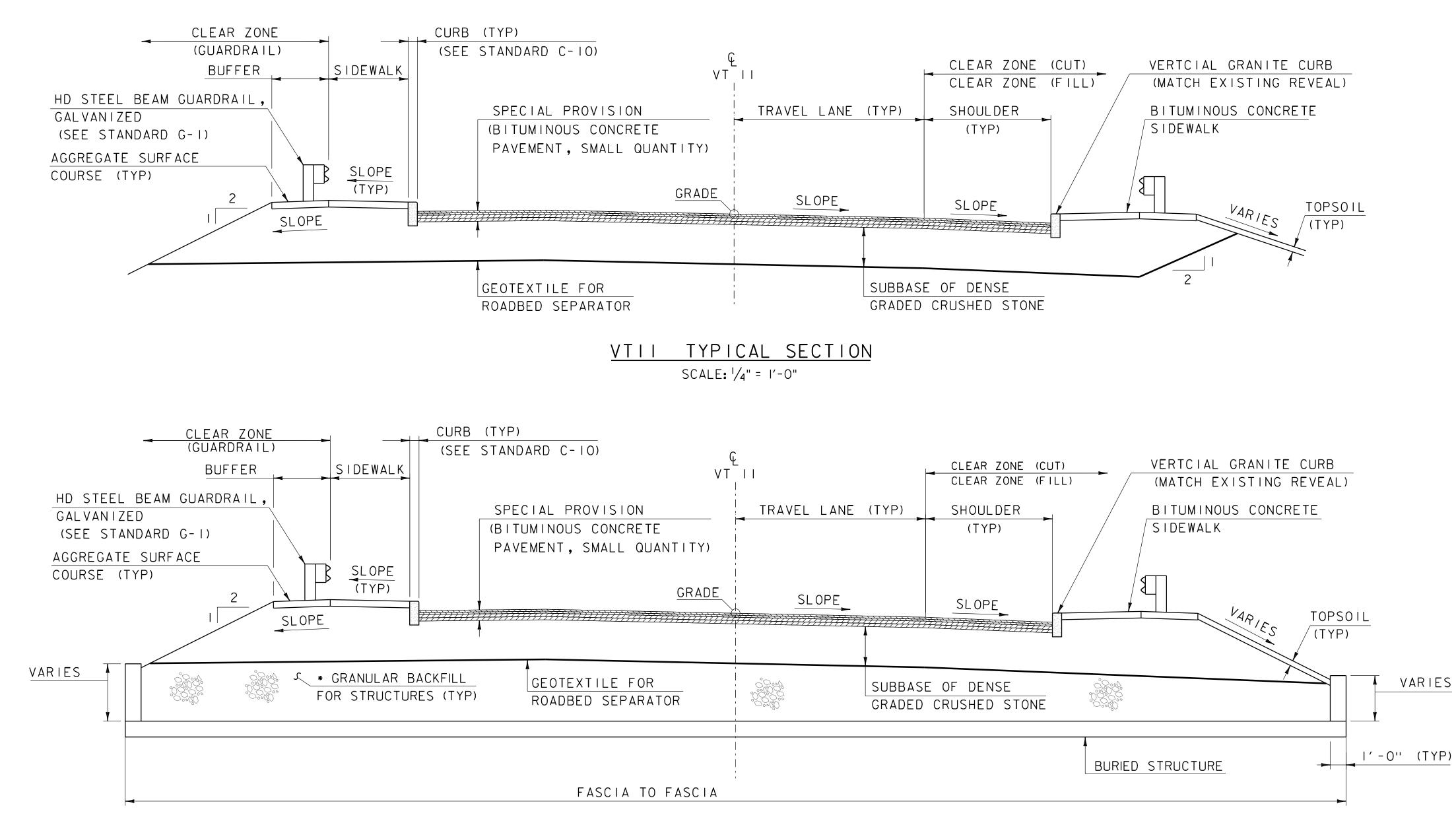
CULVERT DESIGN CRITERIA

1. PROPOSED CULVERT IS A PRECAST CONCRETE BOX. 2. SEE TYPICAL SECTIONS FOR DESIGN CRITERIA.

3. CULVERT WILL REQUIRE AQUATIC ORGANISM PASSAGE (AOP).

		LRFD
FINAL HYDRA		
	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	HL-93
	2. FUTURE PAVEMENT 3. CULVERT OPENING	<i>dp</i> : 0 INCH <i>D:</i> 15.0 FT
	4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UN	ITS) Δ:
	 5. PRESTRESSING STRAND 6. PRESTRESSED CONCRETE STRENGTH 	fy: f'c:
	 7. PRESTRESSED CONCRETE RELEASE STRENGTH 8. HIGH PERFORMANCE CONCRETE, CLASS PCD 	f'ci: f'c: 4.0 KSI
	9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f 'c: 3.5 KSI
	10. HIGH PERFORMANCE CONCRETE, CLASS SCC 11. CONCRETE, CLASS C	f'c: 4.0 KSI f'c: 3.0 KSI
	12. REINFORCING STEEL 13. STRUCTURAL STEEL AASHTO M270	fy: 60 KSI fy:
	14. NOMINAL BEARING RESISTANCE OF SOIL	q n: 4.0 KSF
	15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRF	D)
	 16. NOMINAL BEARING RESISTANCE OF ROCK 17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRI 	q n: <u>10.0 KSF</u> FD) φ: <u></u>
. STR. 5A. SEMI	18. PILE RESISTANCE FACTOR	ф:
34.5 38	19. LATERAL PILE DEFLECTION 20. BASIC WIND SPEED	<u>∆:</u> V3s:
	21. MINIMUM GROUND SNOW LOAD22. SEISMIC DATAPGA:	pg: Ss:
	23.	<u>S1:</u>
	24 25	
	25 26.	
	PROJECT NAME: SPRINGFIELD	
	PROJECT NUMBER: BF0134(49)	
	FILE NAME:s16b068 PI Sheet.xlsPLOT DAPROJECT LEADER:N. WARKDRAWN E	TE: 2/6/2019 BY: G. LAROCHE
	DESIGNED BY: G. LAROCHE CHECKEI	D BY: G. DARGAN
	PRELIMINARY INFORMATION SHEET 1 SHEET	2 OF 32

Version



VTII BURIED STRUCTURE TYPICAL SECTION

ROAD TYPICAL REQUIREMENTS

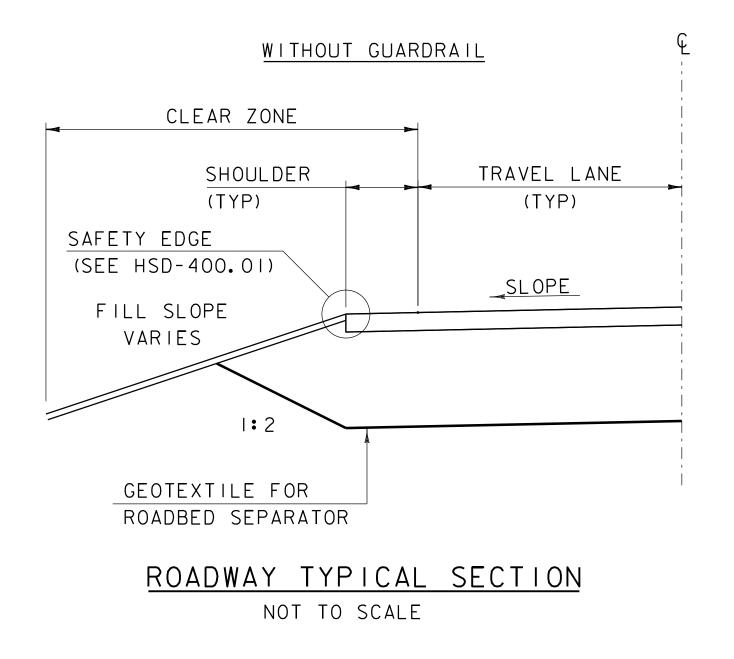
	LEF	- T	RIGHT		
	WIDTH	SLOPE	WIDTH	SLOPE	
TRAVEL LANE	12'-0"	VARIES	12'-0"	VARIES	
SHOULDER	10' -0''	VARIES	10' -0''	VARIES	
CURB	0' - 6''	0.000	0' - 6''	0.000	
SIDEWALK	5'-0''	0.021	5' - 0''	0.021	
BUFFER	3' - 7''	-0.060	3' - 7''	-0.060	
FILL SLOPE		VARIES		VARIES	
CLEAR ZONE (CUT)	12'-0"		12' -0''		
CLEAR ZONE (FILL)	14'-0''		14'-0''		
CLEAR ZONE (GUARDRAIL)	4' -9''		4' -9''		

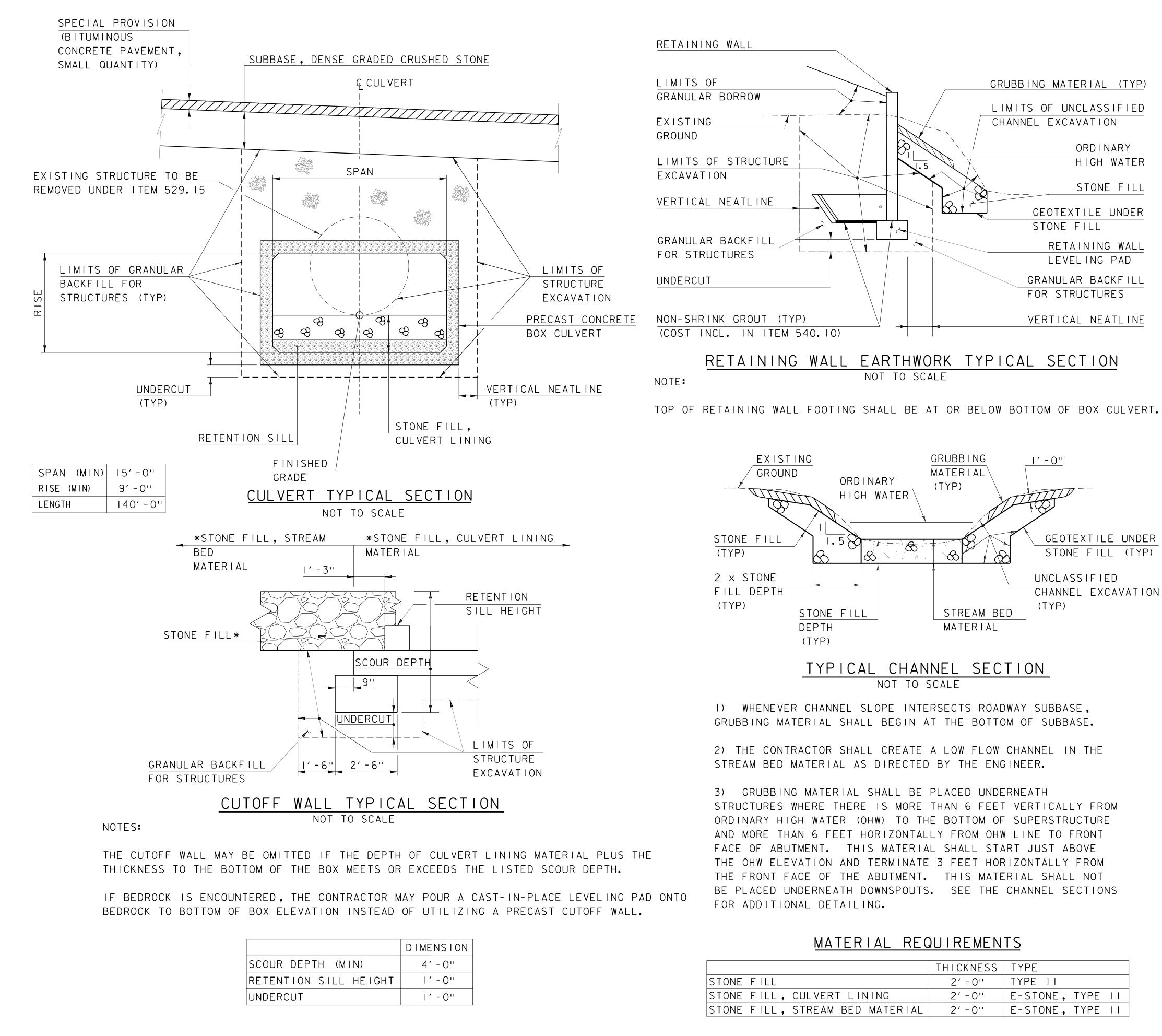
SCALE: 1/4" = 1'-0"

MATERIAL REQUIREMENTS

	THICKNESS	DESCRIPTION
BINDER	PG 70-28	PERFORMANCE GRADE ASPHALT BINDER
GYRATION	8''	DESIGN NUMBER OF GYRATIONS
WEARING COURSE	/ ₂ ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IVS)
BINDER COURSE	۱ ^۱ /2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IVS)
BASE COURSE #2	2 1/2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IIS)
BASE COURSE #1	2 1/2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IIS)
EMULSIFIED ASPHALT		STANDARD SPECIFICATIONS 406.12A
SIDEWALK	2''	BITUMINOUS CONCRETE SIDEWALK (TYPE IVS)
BUFFER	VARIES	AGGREGATE SURFACE COURSE (MATCH PAVE THICK)
SUBBASE	30''	SUBBASE OF DENSE GRADED CRUSHED STONE
TOPSOIL	4''	TOPSOIL

	MATERIAL	TOLERAN	CES
	(IF USED	ON PROJECT)	
SURF	ACE		
- PA	VEMENT (TOTAL	THICKNESS)	+/-
- AG	GREGATE SURFA	CE COURSE	+/-
SUBB	ASE		+/-
SAND	BORROW		+/-





	THICKNESS	ITPE
STONE FILL	2′-0''	TYPE II
STONE FILL, CULVERT LINING	2′-0''	E-STONE, TYPE
STONE FILL, STREAM BED MATERIAL	2′-0''	E-STONE, TYPE

LEVELING PAD				
	DIMENSION			
WIDTH	2′-6''			
TOE	0′-9''			
HEEL	0′-9''			
THICKNESS	' - O''			
WALL				
THICKNESS	۱٬ – ۵۰			
HEIGHT	VARIES			

RETAINING WALL - ASSUMED DIMENSIONS

EXCAVATION LIMITS (BOX/WALL)

EXCAVATION LIMITS	(BOX/WALL)
VERTICAL NEATLINE	I'-6''
UNDERCUT	I ′ – O''

THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN MEETING THE MINIMUM REQUIREMENTS SPECIFIED HEREIN. DIMENSIONS LABELED MAY BE MODIFIED TO SUIT THE CONTRACTOR'S MEANS AND METHODS WHILE REMAINING IN ACCORDANCE WITH ALL CONTRACT REQUIREMENTS. THE GEOMETRY SHALL FIT ALL ASPECTS OF SITE DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATION AT NO ADDITIONAL COST TO THE STATE.

DIMENSIONS NOT NOTED AS MINIMUM OR REQUIRED HEREIN ARE USED FOR PLAN GENERATION. THE FABRICATOR SHALL DETERMINE ALL FINAL STRUCTURAL DIMENSIONS.

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: BF 0134(49)	
FILE NAME: sI6b068typ.dgn PROJECT LEADER: N.WARK DESIGNED BY: G.LAROCHE TYPICAL SECTION SHEET 2	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY:G.DARGAN SHEET 4 OF 32

GENERAL INFO	RMATION	COMMON TOPOGRAPHIC POINT SYMBOLS				
SYMBOLOGY LE	GEND NOTE	POINT	CODE	DESCRIPTION		
THE SYMBOLOGY STANDARD CONV USED FOR EXIST LINEWEIGHT, IN O AS NOTED ON F SHEET COVERS VARY, PLAN ANN	OGY LEGEND NOTE YMBOLOGY ON THIS SHEET IS INTENDED TO COVER ARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS FOR EXISTING & PROPOSED FEATURES WITH HEAVIER IGHT, IN COMBINATION WITH PROJECT ANNOTATION, TED ON PROJECT PLAN SHEETS. THIS LEGEND COVERS THE BASICS. SYMBOLOGY ON PLANS MAY PLAN ANNOTATIONS AND NOTES SHOULD BE TO CLARIFY AS NEEDED.		CODE APL BM BND CB COMB DITHR EL FPOLE GASFIL GP GSO GUY GUYW GV H HCTRL HVCTRL HYD IP IPIPE LI MB MH MM PMK POST RRSIG SIGN STUMP TEL	DESCRIPTION BOUND APPARENT LOCATION BENCHMARK BOUND CATCH BASIN COMBINATION POLE DROP INLET THROATED DNC ELECTRIC POWER POLE FLAGPOLE GAS FILLER GUIDE POST GAS SHUT OFF GUY POLE GUY WIRE GATE VALVE TREE HARDWOOD CONTROL HORIZONTAL CONTROL HORIZ. & VERTICAL HYDRANT IRON PIN IRON PIPE LIGHT - STREET OR YARD MAILBOX MANHOLE (MH) MILE MARKER PARKING METER PROJECT MARKER PARKING METER PROJECT MARKER POST STONE/WOOD RAILROAD SWITCH LEVER TREE SOFTWOOD SATELLITE DISH SHRUB SIGN STUMP		
POINT CODE CH CONST CUL D&C DIT DR	EVIATIONS (CODES) & SYMBOLS DESCRIPTION CHANNEL EASEMENT CONSTRUCTION EASEMENT CULVERT EASEMENT DISCONNECT & CONNECT DITCH EASEMENT DRAINAGE EASEMENT	FOR EX FEATUR	ISTING FEA ES WITH H	TIE SIGN W/DOUBLE POST CONTROL VERTICAL WELL WATER SHUT OFF ON VAOT SURVEY POINT SYMBOLS ATURES, ALSO USED FOR PROPOSED EAVIER LINEWEIGHT, IN COMBINATION		
DRIVE	DRIVEWAY EASEMENT EROSION CONTROL	PROPO	SED GEO	METRY CODES		
HWY I&M LAND R&RES R&REP R.T.&I. SR UE (P) (T)	HIGHWAY EASEMENT INSTALL & MAINTAIN EASEMENT LANDSCAPE EASEMENT REMOVE & RESET REMOVE & REPLACE RIGHT, TITLE, AND INTEREST SLOPE RIGHT UTILITY EASEMENT PERMANENT EASEMENT TEMPORARY EASEMENT	CODE PC PI CC PT PCC PRC POB POE STA	POINT (POINT (CENTER POINT (POINT (POINT (POINT (OF CURVATURE OF INTERSECTION OF CURVE OF TANGENCY OF COMPOUND CURVE OF REVERSE CURVE OF BEGINNING OF ENDING N PREFIX		
■ BNDNS □ BNDNS ○ IPNF ● IPNS ⊠ CALC ○ PROW [LENGTH]	BOUND SET BOUND TO BE SET IRON PIN FOUND IRON PIN TO BE SET EXISTING ROW POINT PROPOSED ROW POINT LENGTH CARRIED ON NEXT SHEET	AH BK D R T L E CB	AHEAD BACK S CURVE CURVE CURVE CURVE CURVE	STATION SUFFIX STATION SUFFIX DEGREE OF (IOOFT) RADIUS OF TANGENT LENGTH LENGTH OF EXTERNAL DISTANCE BEARING		

UTILITY SYMBOLOGY

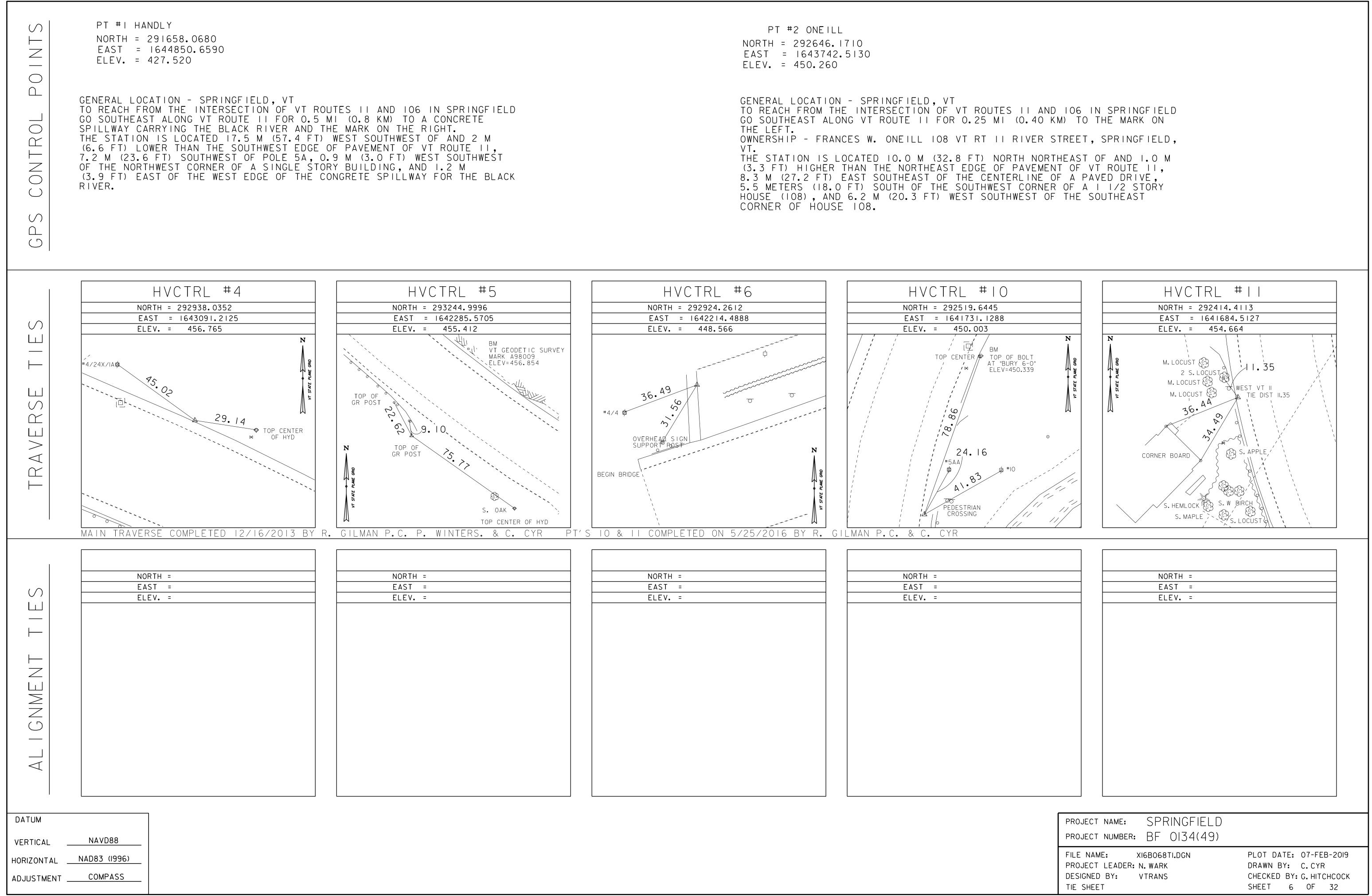
UNDERGROUND UTILI	TIES
UGU · ·	UTILITY (GENERIC-UNKNOWN)
— UT — · · — · · –	TELEPHONE
— UE — · · — · · –	ELECTRIC
— UC — · ·	CABLE (TV)
— UEC — · ·	ELECTRIC+CABLE
— UET — · · — · · –	ELECTRIC+TELEPHONE
— UCT — · ·	CABLE+TELEPHONE
— UECT — ·· — · · –	ELECTRIC+CABLE+TELEPHONE
— G — · · – · · –	GAS LINE
— <i>W</i> — · · · –	WATER LINE
S · · · · · -	SANITARY SEWER (SEPTIC)
ABOVE GROUND UTIL	ITIES (AERIAL)
— AGU — · · — · · –	UTILITY (GENERIC-UNKNOWN)
— T — · · – · · -	TELEPHONE
— E — · · – · · -	ELECTRIC
— c — · · – · · -	CABLE (TV)
— EC — · · – · · -	ELECTRIC+CABLE
— ET — · · – · · -	ELECTRIC+TELEPHONE
	ELECTRIC+TELEPHONE
— CT — · · – · · -	
	ELECTRIC+CABLE+TELEPHONE
· · · · · · · · ·	UTILITY POLE GUY WIRE
PROJECT CONSTRUCT	ION SYMBOLOGY
PROJECT DESIGN &	LAYOUT SYMBOLOGY
— — CZ — —	CLEAR ZONE
	PLAN LAYOUT MATCHLINE
PROJECT CONSTRUCT	ION FEATURES
<u>A A A</u>	TOP OF CUT SLOPE
G - G- G- O	TOE OF FILL SLOPE

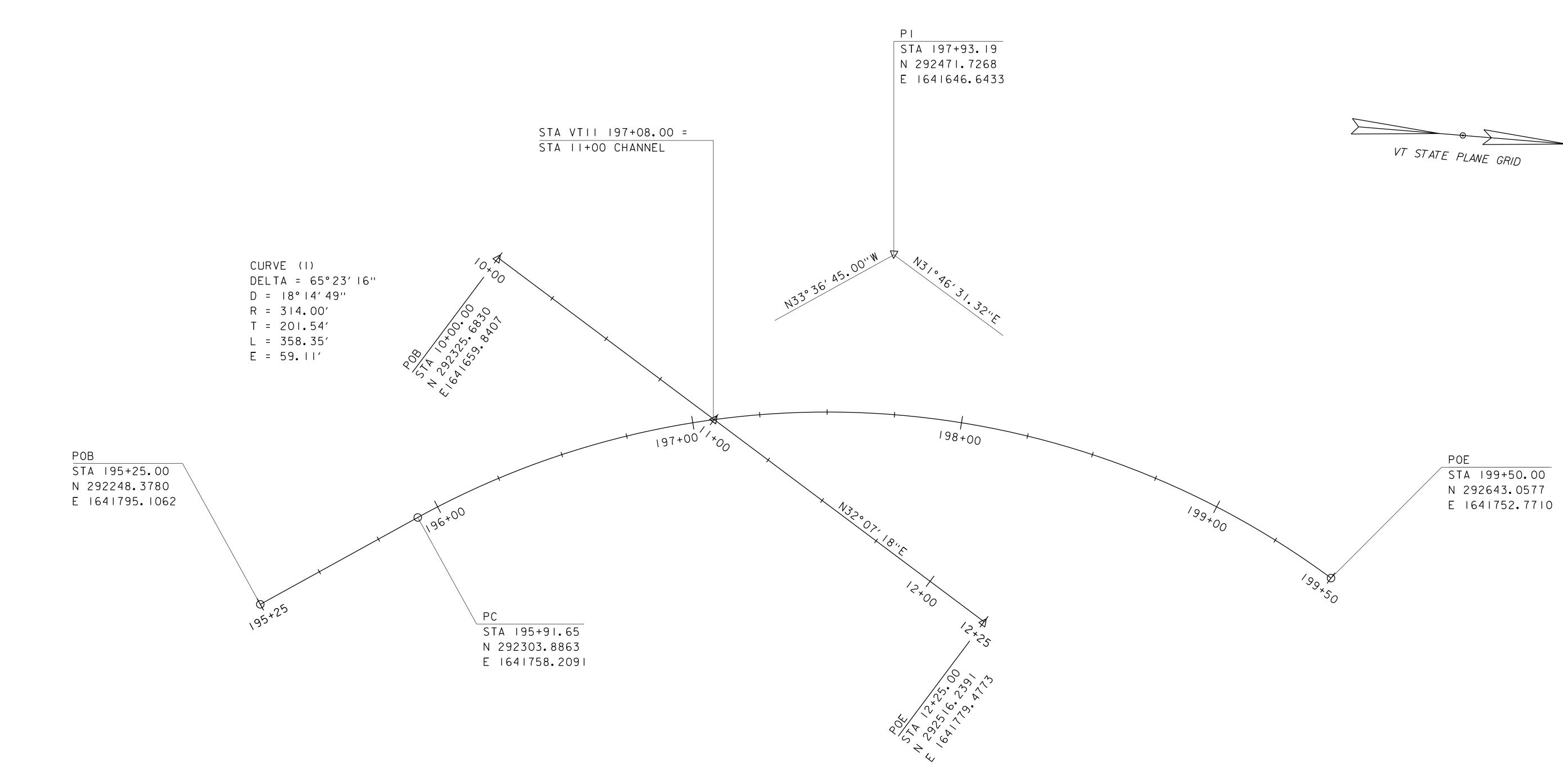
0-0-0	TOE OF FILL SLOPE
8 8 8 8 8 8	STONE FILL
	BOTTOM OF DITCH €
	CULVERT PROPOSED
	STRUCTURE SUBSURFACE
PDF PDF	PROJECT DEMARCATION FENCE
BF - * * * BF * *	BARRIER FENCE
****	TREE PROTECTION ZONE (TPZ)
///////////////////////////////////////	STRIPING LINE REMOVAL
$\sim\sim\sim\sim\sim\sim$	SHEET PILES

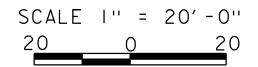
CONVENTIONAL BOUNDARY SYMBOLOGY

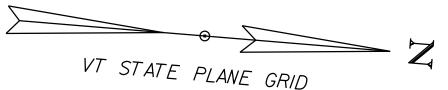
BOUNDARY LINES	
TOWN LINE	TOWN BOUNDARY LINE
COUNTY LINE	COUNTY BOUNDARY LINE
STATE LINE	STATE BOUNDARY LINE
— <i>///</i>	PROPOSED STATE R.O.W. (LIMITED ACCESS)
	PROPOSED STATE R.O.W.
+++	STATE ROW (LIMITED ACCESS)
	STATE ROW
	TOWN ROW
_ · _ · _ · _ · _ ·	PERMANENT EASEMENT LINE (P)
	TEMPORARY EASEMENT LINE (T)
++-	SURVEY LINE
$\frac{P}{L} - \frac{P}{L} - \frac{P}{L}$	PROPERTY LINE (P/L)
A SR O SR A SR O	SLOPE RIGHTS
6f 6f	6F PROPERTY BOUNDARY
4f 4f	4F PROPERTY BOUNDARY
HAZ ———— HAZ ———	HAZARDOUS WASTE

000000000000000000000000000000000000000	S FILTER CURTAIN
	SILT FENCE
<u>• • × • × • ×</u> ▶—▶—▶—	SILT FENCE WOVEN WIRE CHECK DAM
	DISTURBED AREAS REQUIRING RE-VEGETATION
	EROSION MATTING
SEE EPSC DETAIL	SHEETS FOR ADDITIONAL SYMBOLOGY
ENVIRONMENTAL	
•	WETLAND BOUNDARY RIPARIAN BUFFER ZONE
	WETLAND BUFFER ZONE
— · · — · · — · · — · · — · · — · · — · · · — · · · — · · · — · · · — · · · — · · · · — ·	SOIL TYPE BOUNDARY THREATENED & ENDANGERED SPECIES
	HAZARDOUS WASTE AREA
	AGRICULTURAL LAND
——— HABITAT ——— —— FLOOD PLAIN ——	FISH & WILDLIFE HABITAT FLOOD PLAIN
	ORDINARY HIGH WATER (OHW)
	STORM WATER
	USDA FOREST SERVICE LANDS WILDLIFE HABITAT SUIT/CONN
	ARCHEOLOGICAL BOUNDARY
	HISTORIC DISTRICT BOUNDARY
	HISTORIC AREA
(H)	HISTORIC STRUCTURE
CONVENTIONAL	
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL
	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION
EXISTING FEA 	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FENCE (EXISTING)
EXISTING FEA 	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FENCE (EXISTING) FENCE WOOD POST FENCE STEEL POST
EXISTING FEA 	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FENCE (EXISTING) FENCE WOOD POST FENCE STEEL POST GARDEN
EXISTING FEA 	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FENCE (EXISTING) FENCE WOOD POST FENCE STEEL POST GARDEN
EXISTING FEA 	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE WOOD POST GARDEN RAILROAD TRACKS CULVERT (EXISTING)
EXISTING FEA 	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION -× FENCE (EXISTING) FENCE WOOD POST GARDEN RAILROAD TRACKS CULVERT (EXISTING)
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION -× FENCE (EXISTING) FENCE WOOD POST GARDEN RAILROAD TRACKS WALL WALL WALL WALL
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE WOOD POST FENCE STEEL POST GARDEN RAILROAD TRACKS WALL WALL WOOD LINE BRUSH LINE
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION -× FENCE (EXISTING) FENCE WOOD POST GARDEN RAILROAD TRACKS WALL WALL WALL WALL
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE WOOD POST GARDEN RAILROAD TRACKS WALL WALL BRUSH LINE HEDGE HEDGE
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION DITCH FOUNDATION DITCH FOUNDATION FENCE (EXISTING) FENCE STEEL POST GARDEN RAILROAD TRACKS WALL WALL WALL WALL BRUSH LINE HEDGE BODY OF WATER EDGE
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION DITCH FOUNDATION DITCH FOUNDATION FENCE (EXISTING) FENCE STEEL POST GARDEN RAILROAD TRACKS WALL WALL WALL WALL BRUSH LINE HEDGE BODY OF WATER EDGE
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION DITCH FOUNDATION DITCH FOUNDATION FENCE (EXISTING) FENCE STEEL POST GARDEN RAILROAD TRACKS WALL WALL WALL WALL BRUSH LINE HEDGE BODY OF WATER EDGE
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE (EXISTING) FENCE STEEL POST GARDEN ROAD GUARDRAIL RAILROAD TRACKS CULVERT (EXISTING) STONE WALL WOOD LINE BRUSH LINE HEDGE BODY OF WATER EDGE LEDGE EXPOSED
EXISTING FEA	TURES ROAD EDGE PAVEMENT ROAD EDGE GRAVEL DRIVEWAY EDGE DITCH FOUNDATION FENCE (EXISTING) FENCE STEEL POST GARDEN ROAD GUARDRAIL WALL WOOD LINE BRUSH LINE HEDGE BODY OF WATER EDGE KAL
EXISTING FEA	TOPOGRAPHIC SYMBOLOGY TURES Provide Control Contrector Contrector Contecontector Control Control Control Control Co

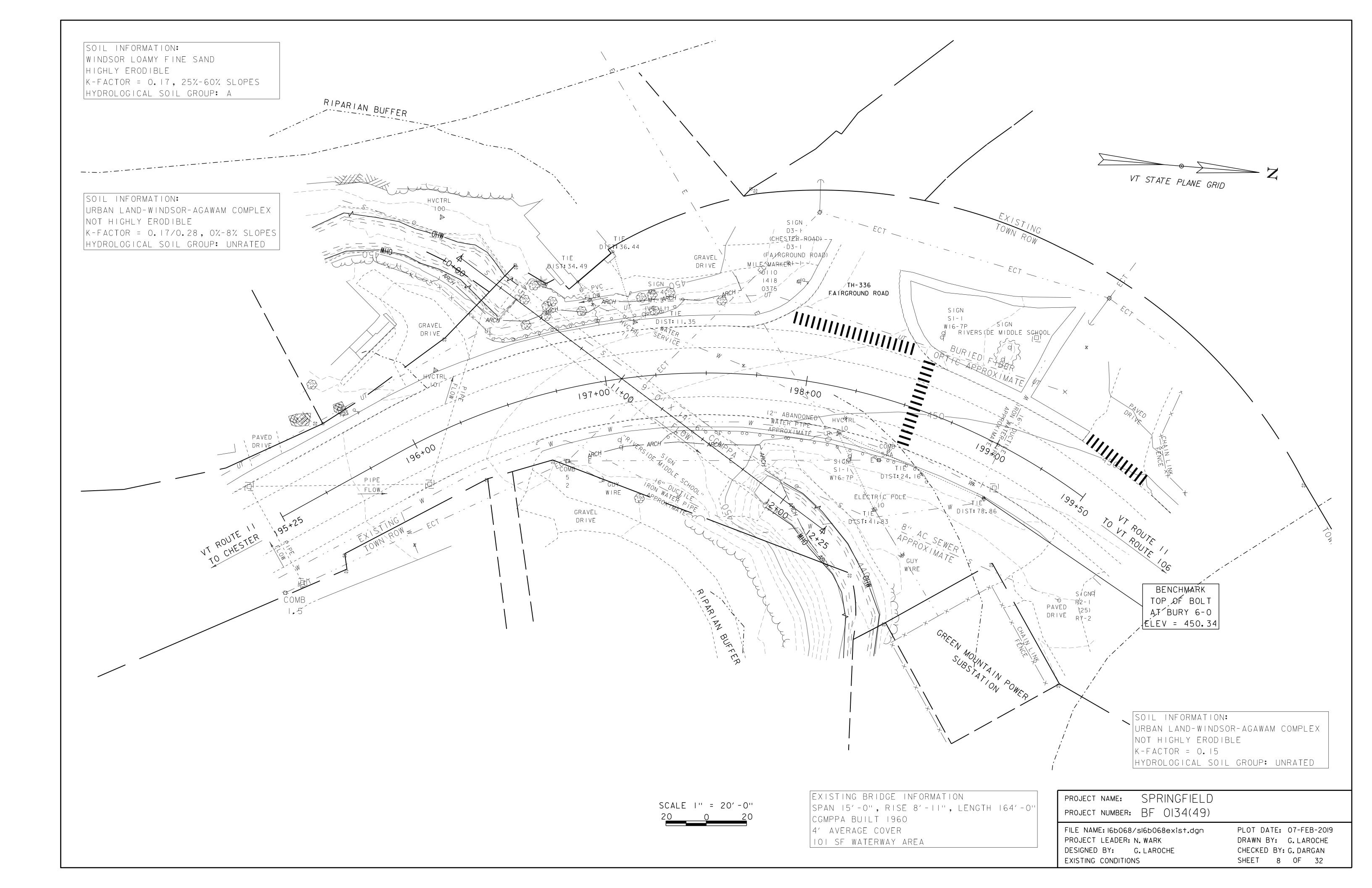




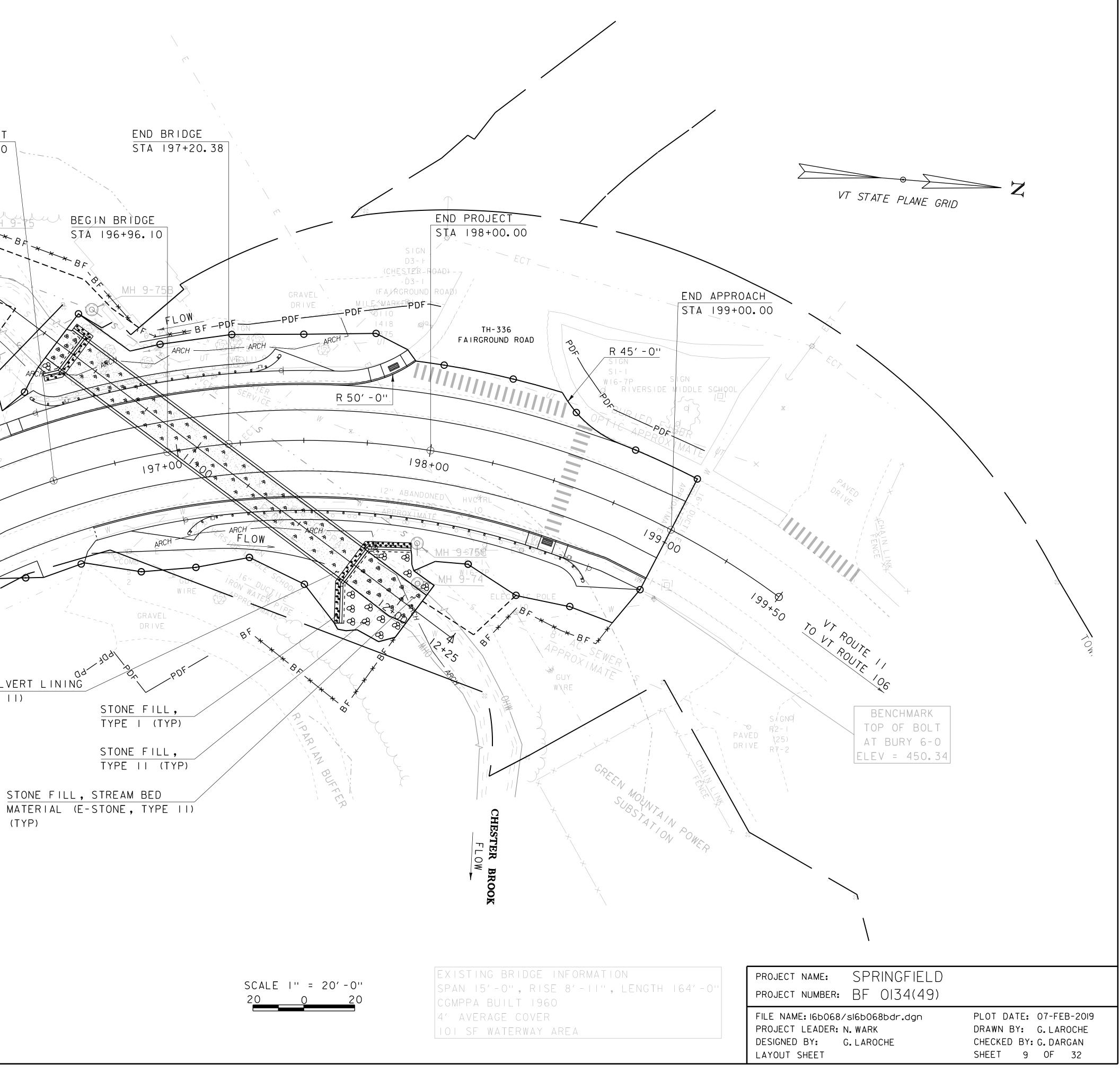


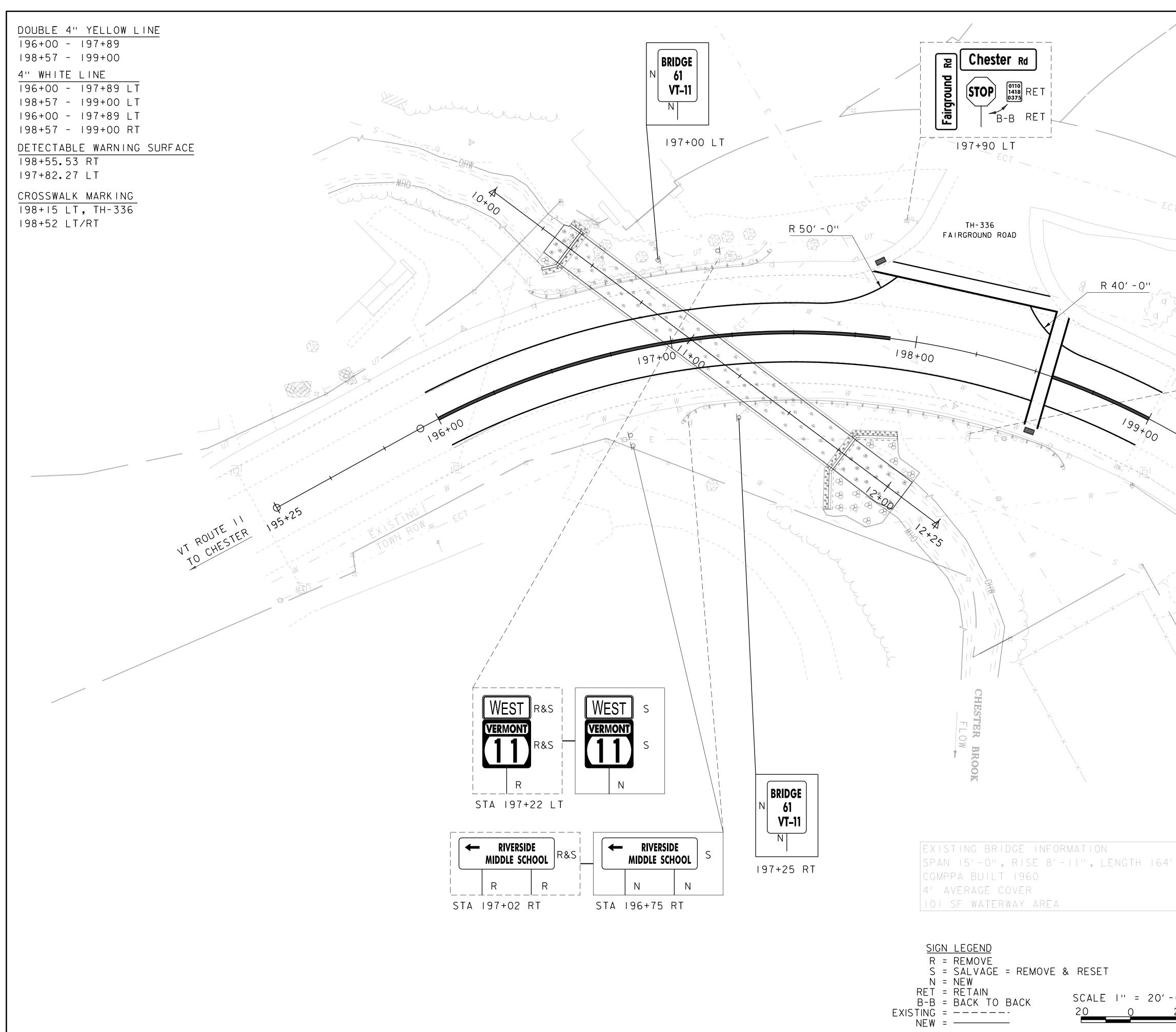


PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: SIGDOG9 PROJECT LEADER: N DESIGNED BY: (ALIGNMENT SHEET	N. WARK	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY:G.DARGAN SHEET 7 OF 32



COARSE-MILLING, BITUMINOUS PAVEMENT 196+00 - 196+50 198+50 - 199+00 CONSTRUCT 5' DRIVE APRON (PAVED) 196+14.0 - 196+59.9 RT 197+89.9 - 198+43.1 LT RIPARIAN BUFFER PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH 197+73.9 - 197+89.9 LT BEGIN PROJECT 198+46.9 - 198+64.3 RT STA 196+50.00 BITUMINOUS CONCRETE SIDEWALK 196+00.0 - 197+73.9 LT SUBSURFACE UTILITY 196+59.9 - 198+46.9 RT PROJECT LIMITS (TYP) 198+64.3 - 199+00.0 RT VERTICAL GRANITE CURB 196+00.0 - 196+21.4 LT 196+40.4 - 197+89.9 LT 196+59.9 - 199+00.0 RT REMOVING AND RESETTING PROPERTY MARKERS 196+32.5 - 41.2 LT (MONUMENT) *0₀ * JOS 196+63.9 - 33.6 RT (MONUMENT) MH 9-75A 196+80.5 - 52.0 LT (MONUMENT) 196+81.5 - 53.0 LT (HIGHWAY BOUNDARY) REMOVING AND RESETTING FENCE 196+42.4 - 196+52.9 LT BEGIN APPROACH STA 196+00.00 00+1 FLOW____ VT ROUTE II 195+25 TO CHESTER STONE FILL, CULVERT LINING (E-STONE, TYPE ||) (TYP)





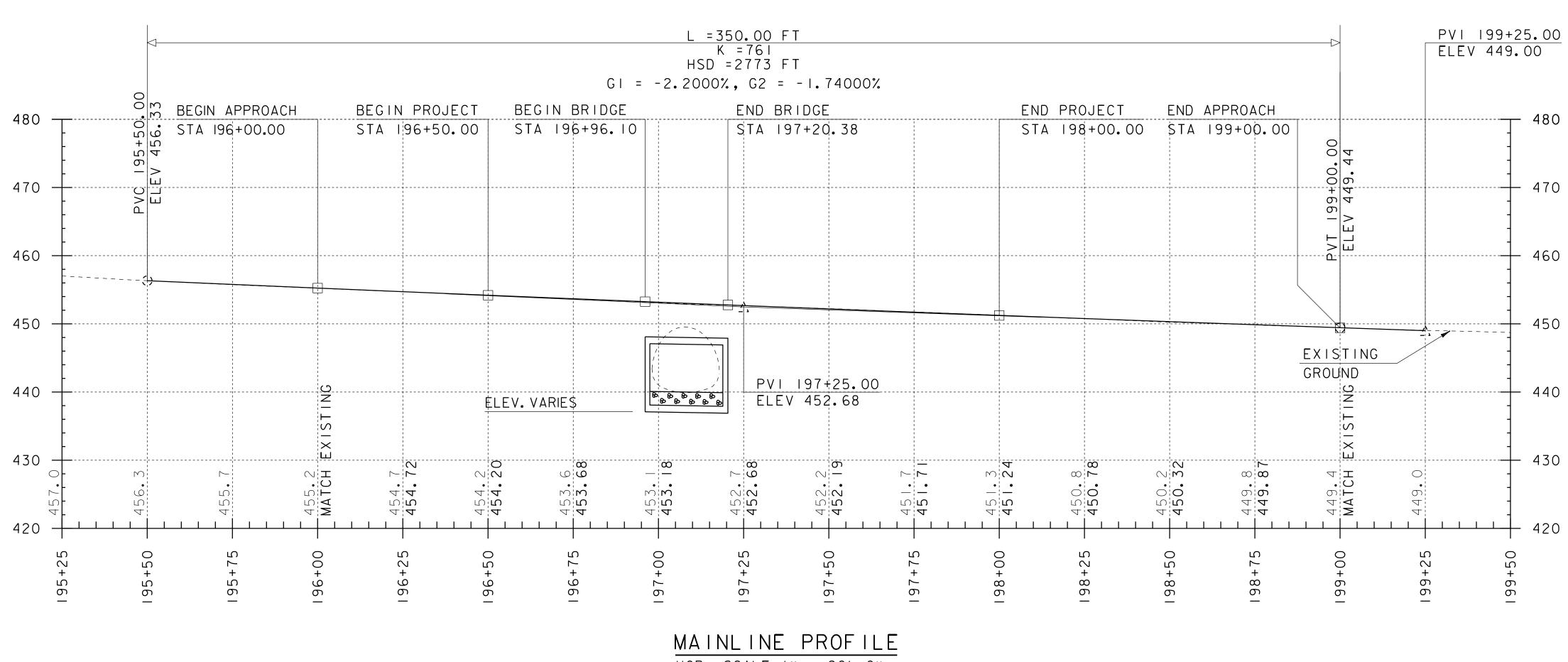
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	VT STATE PLANE GRID	\rightarrow Z
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54′-0''	TOWN ROW	
I		
	project name: SPRINGFIELD project number: BF 0134(49)	
)' - 0'' 20	FILE NAME: I6b068/sI6b068signs.dgn PROJECT LEADER: N. WARK	PLOT DATE: 07-FEB-2019 DRAWN BY: G.DARGAN
	DESIGNED BY: G.LAROCHE TRAFFIC SIGN & LINE LAYOUT	CHECKED BY: G. LAROCHE SHEET IO OF 32

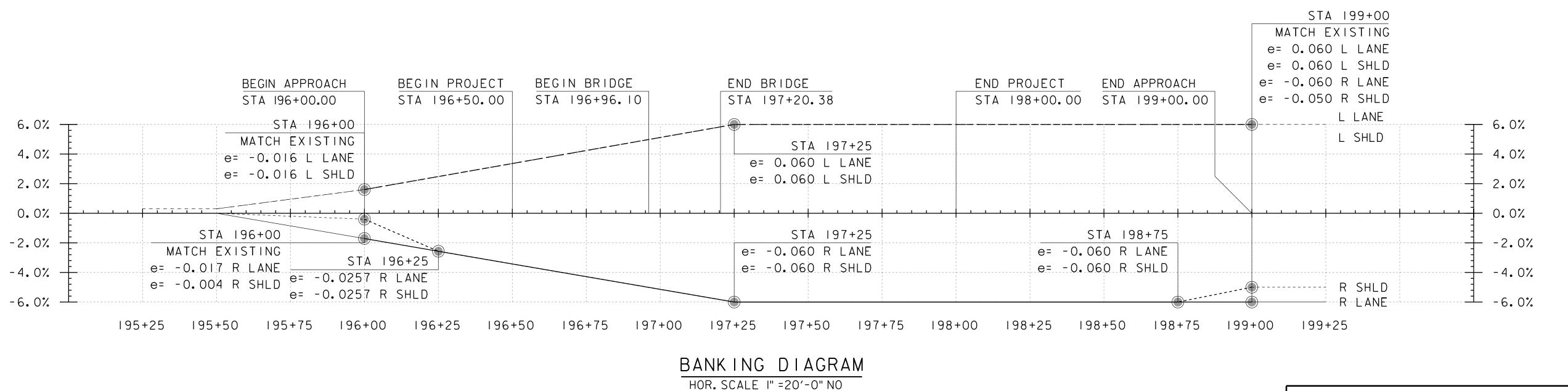
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND
197+12 LT	BRIDGE 61 VT-11
197+16 RT	BRIDGE 61 VT-11
198+30 RT	
192+02 RT	RIVERSIDE MIDDLE SCHOOL
	WEST
197+22 LT	VERMONT 11
FINAL POST I	ENGTHS ARE TO BE DETERMIN

FINAL POST LENGTHS ARE TO BE DETERMINI IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

		GN	NEW & S	SALVAGED SNS	EX PO	DST	NO.		W SIGN JARE T		S				SIGN	DETAIL
-	WIDTH (in)	ISIONS HEIGHT (in)	· · · A · ·	SAL V SIGNS	R E T A I N	Å	OF P O S T S	I.75	(in) 2.0 Ib/ft 2.42	2.5 3.35	A N C H O R	S L E V E	REMARKS	SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
	6	10	0.42				I	10			X		VD-701			T-42
	6	10	0.42				I	10			Х		VD-701			T-42
				Х			2		30		X			SI-I		
				Х			2		50					WI6-7P		
				Х			2		30		x		VD2-IS			T-93
				Х			1		15		X			M3-4		E-136B
				Х										MI-5		E-136B
MINED ED HE			 		 			FT 20	F T 75	F T		EA				
	т	DTALS	SF 0.84	EACH 5						F T 95			SHSM =	STANDARD H	HIGHWAY SIGN	S (MUTCD)

PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: 166068 PROJECT LEADER: DESIGNED BY: TRAFFIC SIGN SUM	G.LAROCHE	PLOT DATE: 07-FEB-2019 DRAWN BY: D.D.BEARD CHECKED BY: M. SWARTZ SHEET II OF 32





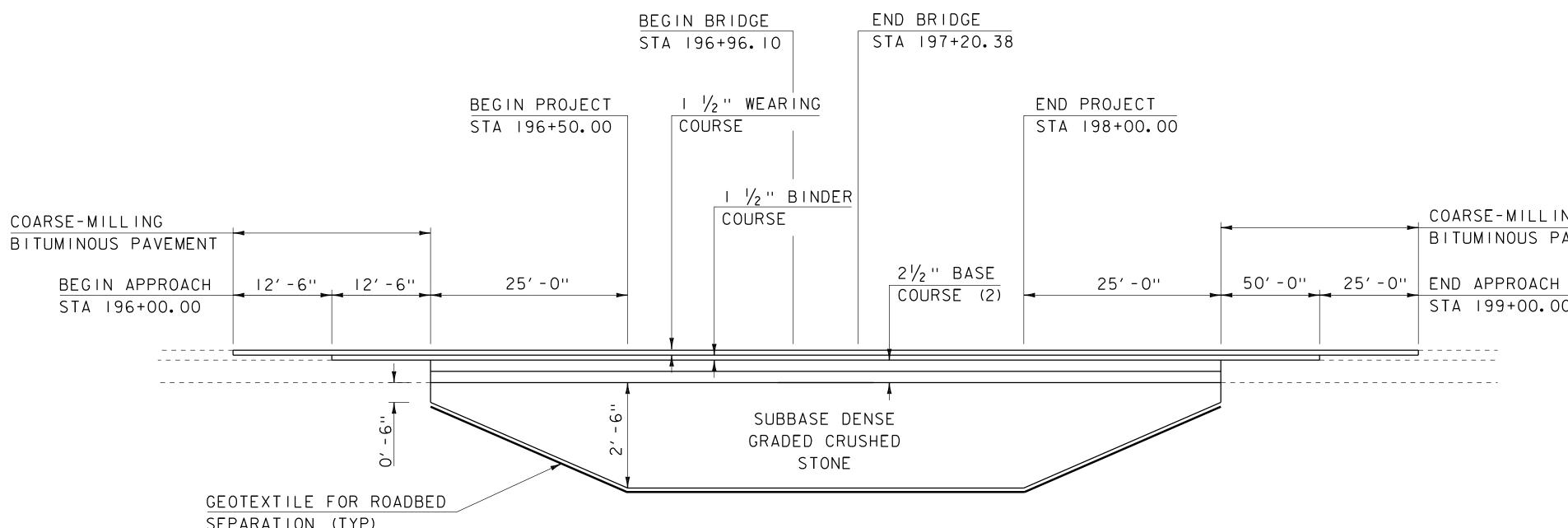
NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE. HOR. SCALE I'' = 20'-0'' VER. SCALE I'' = 10'-0''

VER. SCALE

PROJECT NAME: SPRINGFIELD PROJECT NUMBER: BF 0134(49)	
FILE NAME: sI6b068pro.dgn	PLOT DATE: 07-FEB-2019
PROJECT LEADER: N. WARK	DRAWN BY: G.LAROCHE
DESIGNED BY: G. LAROCHE	CHECKED BY:G.DARGAN
VTII PROFILE & BANKING DIAGRAM	SHEET 12 OF 32



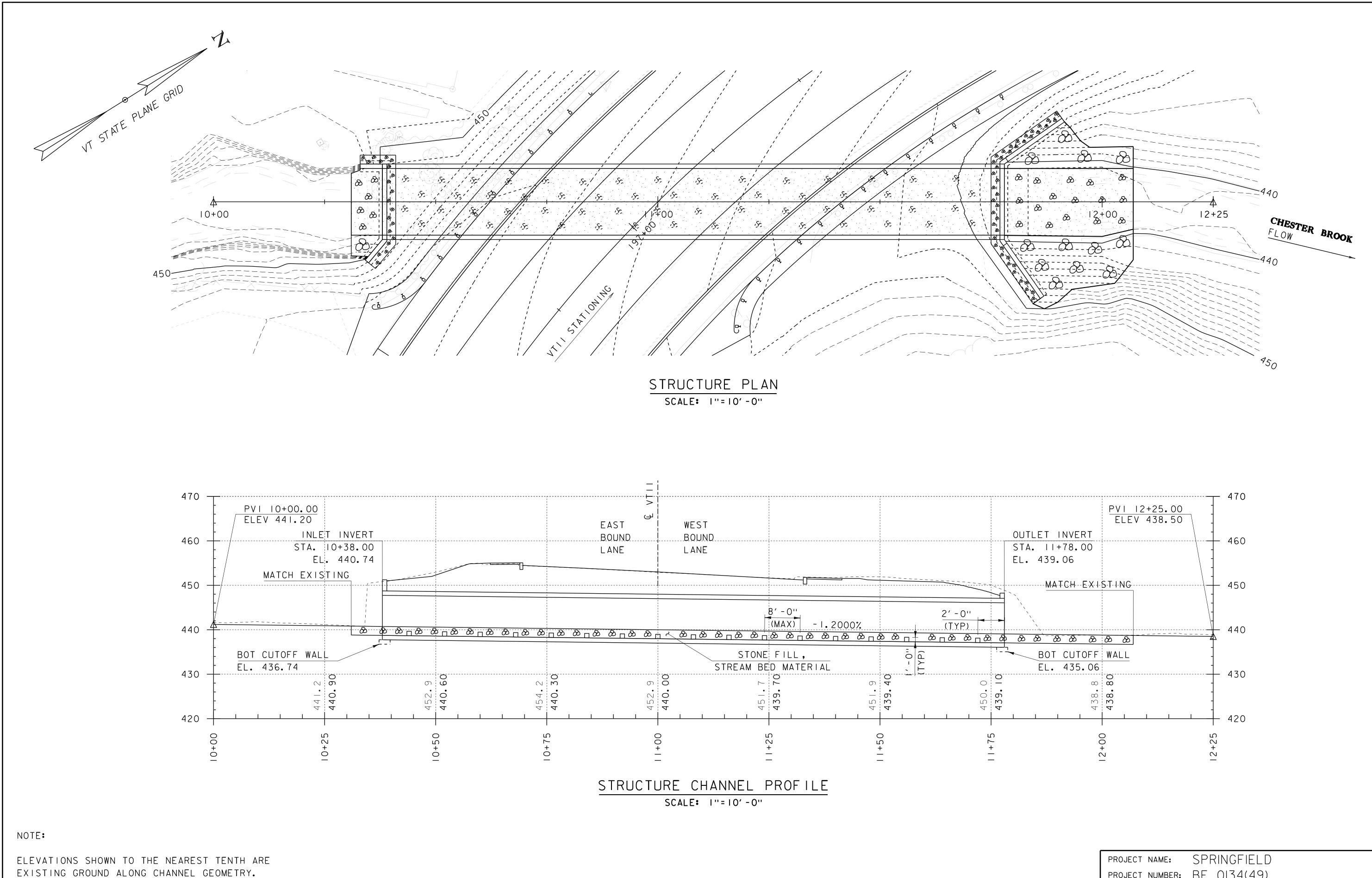
SEPARATION (TYP)

MATERIAL TRANSITION DIAGRAM NOT TO SCALE

COARSE-MILLING BITUMINOUS PAVEMENT

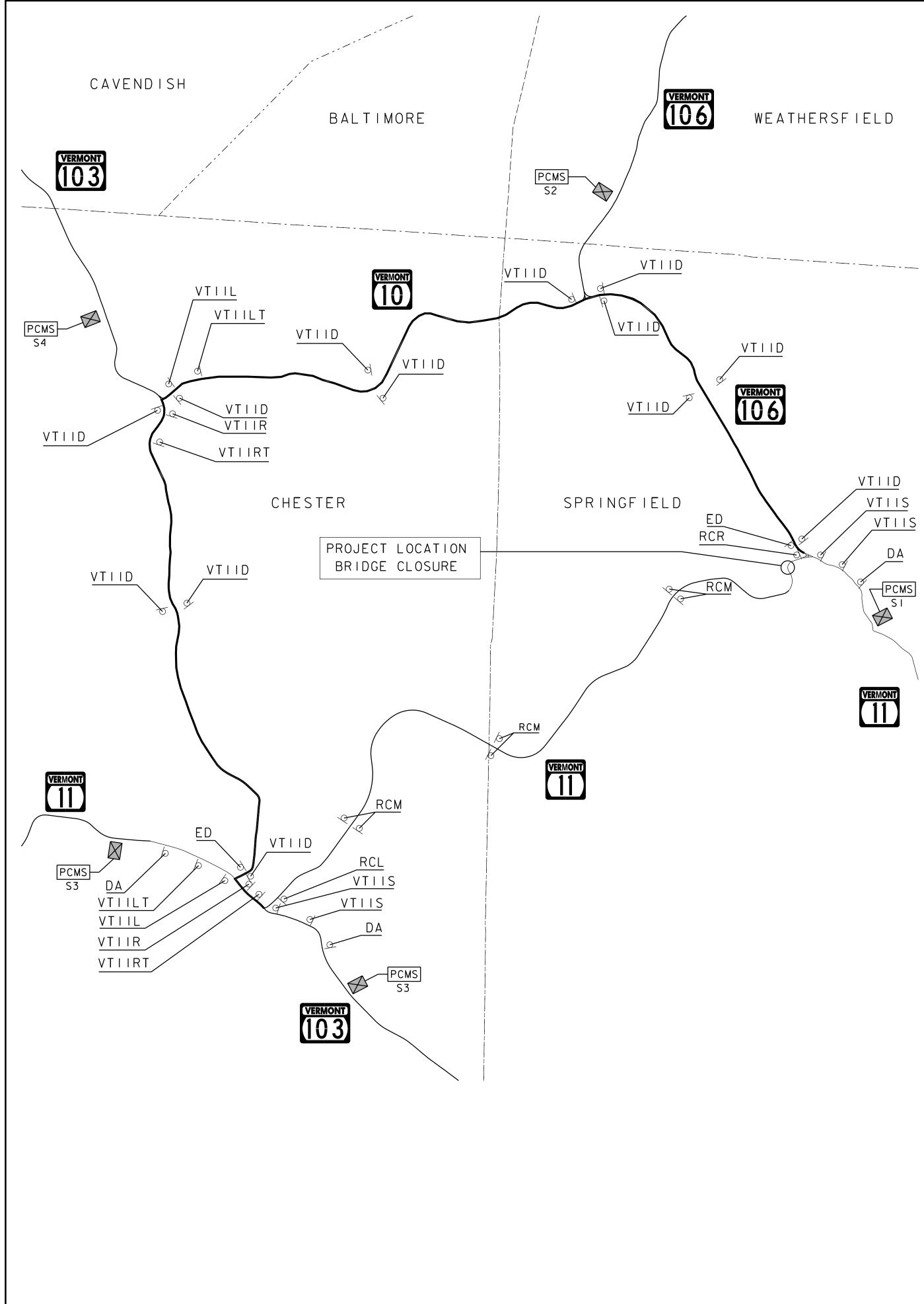
STA 199+00.00

PROJECT NAME: SPRINGFIELD project number: BF 0134(49) FILE NAME: sI6b068pro.dgn PLOT DATE: 07-FEB-2019 PROJECT LEADER: N. WARK DRAWN BY: G.LAROCHE DESIGNED BY: G.LAROCHE CHECKED BY: G. DARGAN MATERIAL TRANSITIION SHEET 13 OF 32



ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE STREAM BED ALONG THE CHANNEL GEOMETRY.

PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: SIGDOGE PROJECT LEADER: I DESIGNED BY: PLAN AND PROFILE	N. WARK G. LAROCHE	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY:G.DARGAN SHEET 14 OF 32



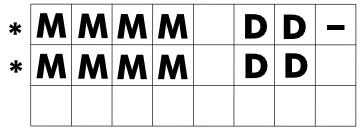


*	M	M	M	M	D	D	
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PORTABLE CHANGEABLE SIGN-S1-PHASE 2







PORTABLE CHANGEABLE SIGN-S2-PHASE 2



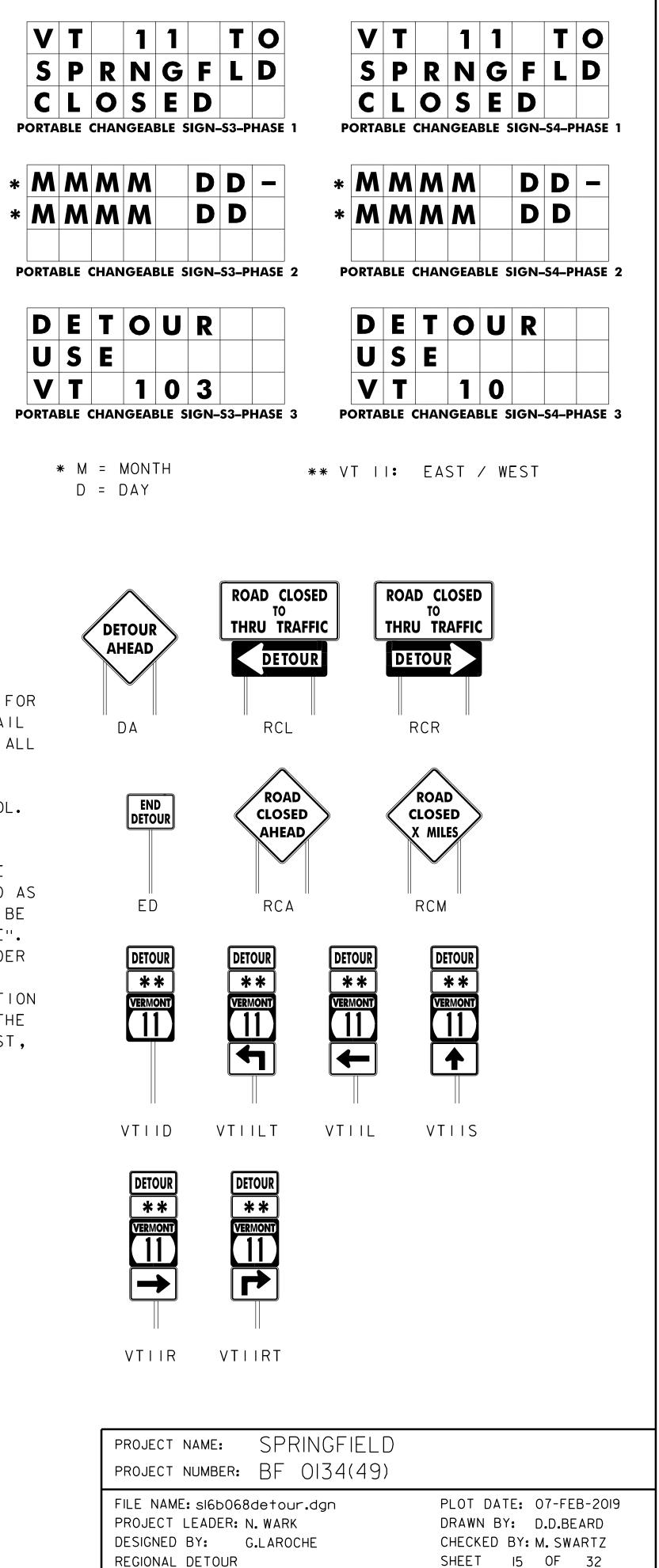
PORTABLE CHANGEABLE SIGN-S1-PHASE 3

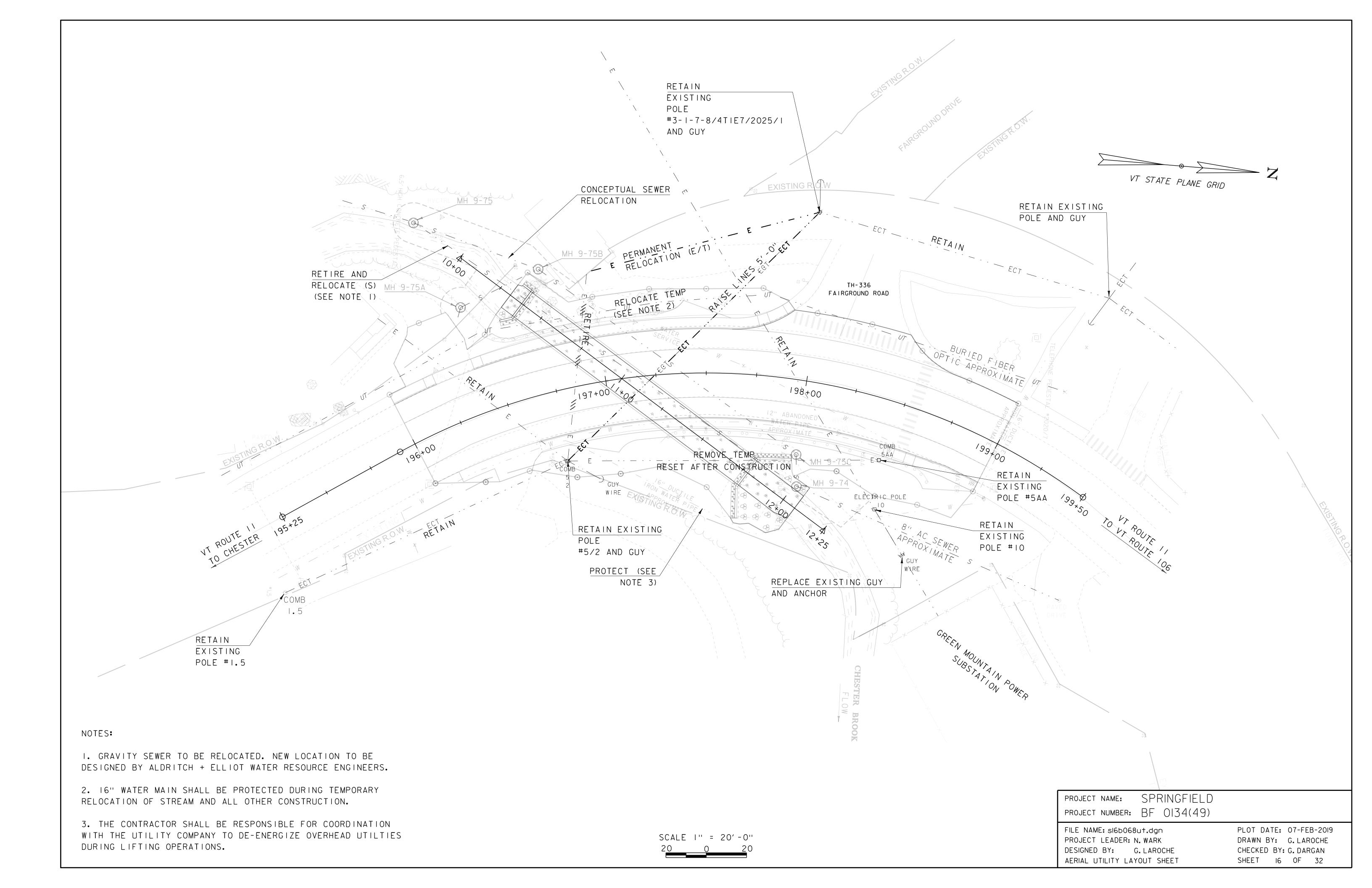
DURING ACTUAL CLOSURE, REMOVE PHASE 2 FROM ALL PCMS

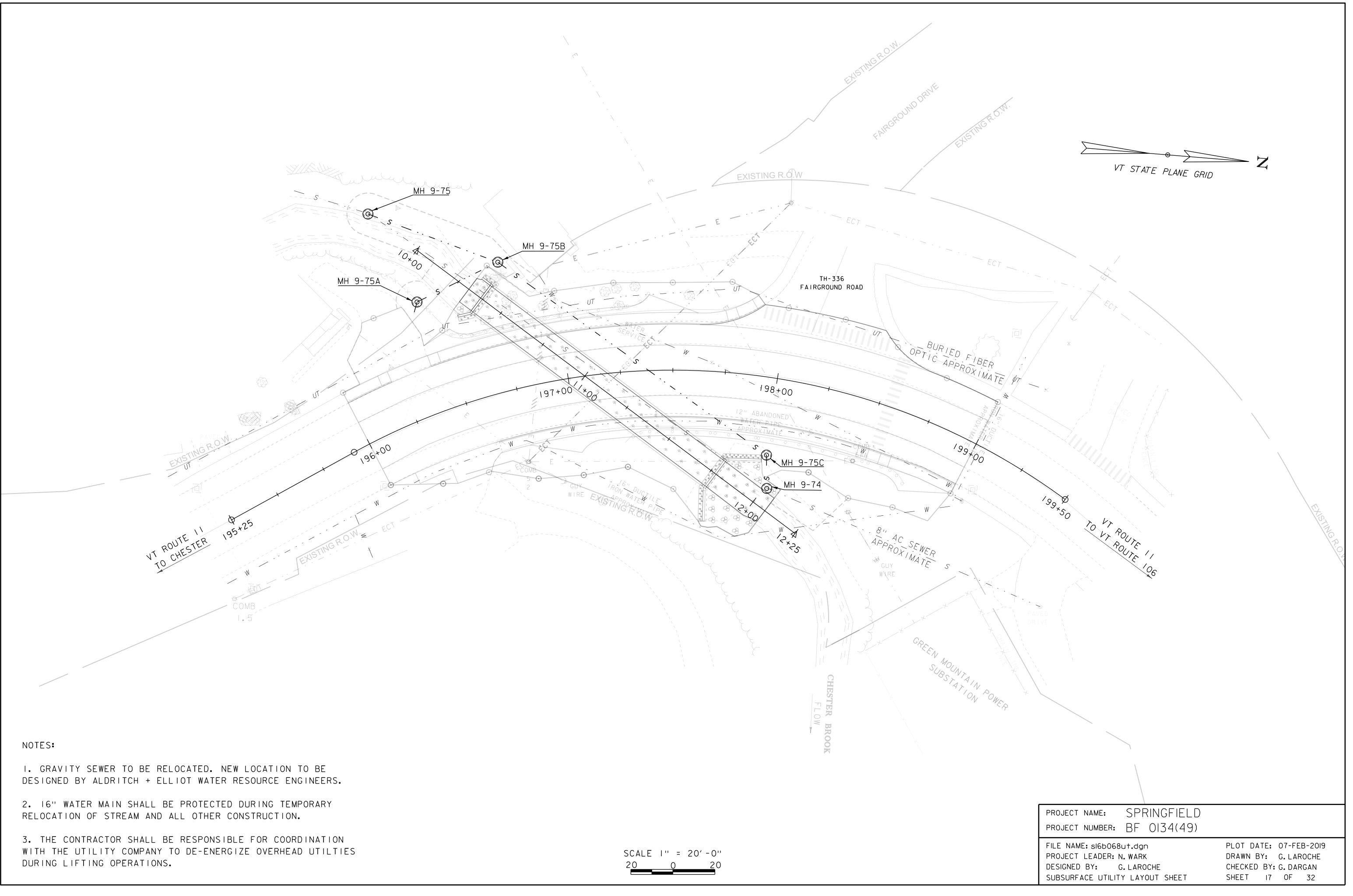
CONFLICTING SIGNS, INCLUDING OVERHEADS, SHALL BE COVERED.

TRAFFIC CONTROL NOTES

- I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION. THE PLAN SHALL CLEARLY DETAIL HOW TRAFFIC WILL BE MAINTAINED. THE PLAN SHALL SPECIFY ALL CONSTRUCTION ACTIVITIES REQUIRING ALTERNATING ONE WAY TRAFFIC, RELATE THOSE ACTIVITIES TO THE CONSTRUCTION SCHEDULE, AND SHOW APPROPRIATE TEMPORARY TRAFFIC CONTROL. THIS SHALL BE DONE PER SECTION 641, AND PAID FOR UNDER ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".
- 2. VTII WILL BE CLOSED AT THE BRIDGE FOR THE ENTIRE BRIDGE CLOSURE PERIOD (BCP). A SIGNED DETOUR SHALL BE PROVIDED AS SHOWN IN THE PLANS. PAYMENT FOR THE DETOUR SIGNS SHALL BE INCLUDED IN ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE". PORTABLE MESSAGE SIGNS SHALL BE PAID FOR SEPERATELY UNDER ITEM 641.15.
- 3. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. FOR ADDITIONAL SIGNING INSTRUCTIONS SEE THE T SERIES OF THE STANDARD DRAWINGS. WHERE CONFLICTS EXIST. THE MUTCD SHALL GOVERN.



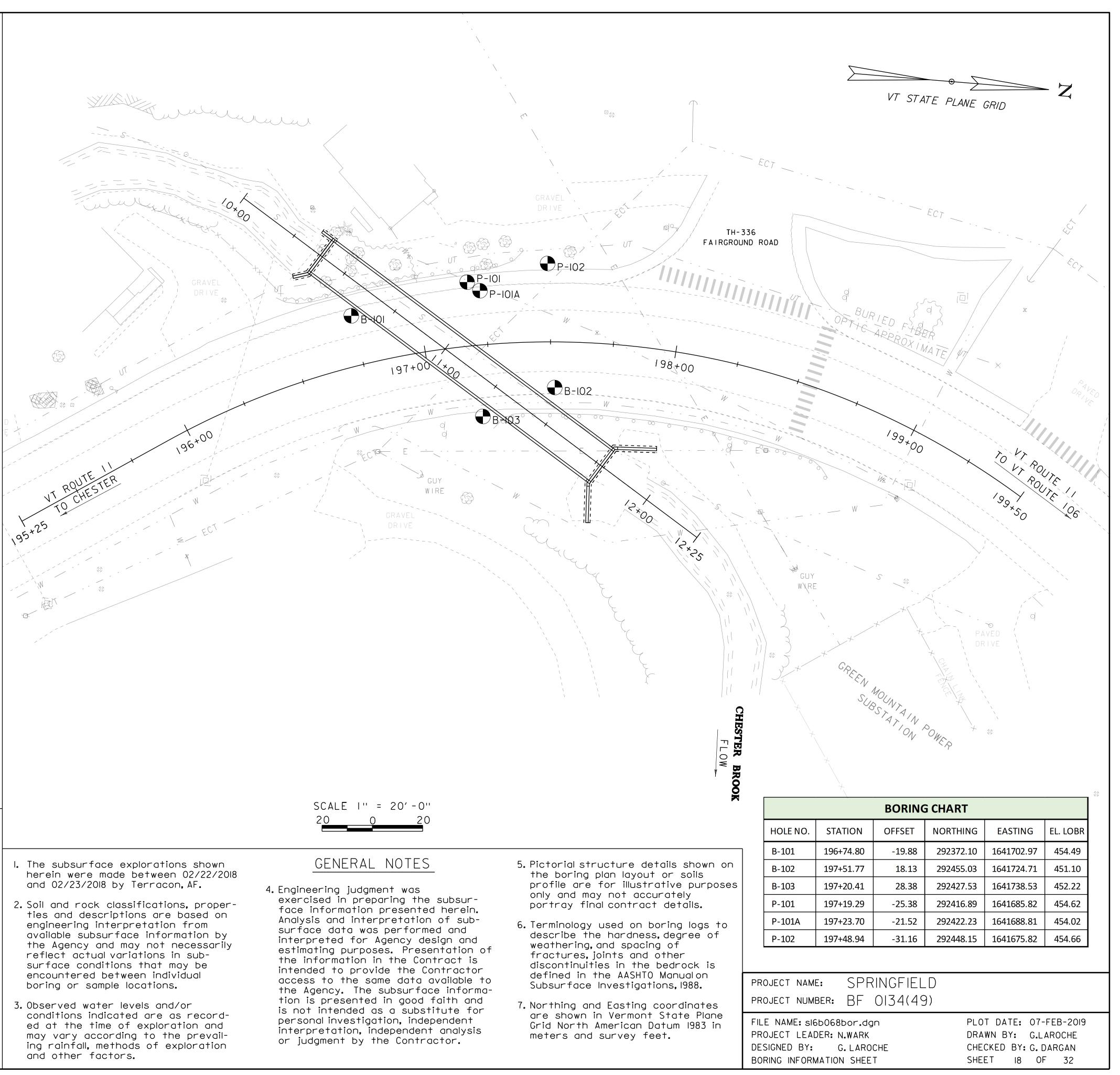


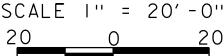


SOIL CLASSIFICATION	COMMONLY USED SYMBOLS
Al Gravel and Sand Al Gravel and Sand Al Fine Sand Al Silty or Clayey Gravel and Sand Al Silty Soil - Low Compressibility Al Silty Soil - Highly Compressible Al Clayey Soil - Low Compressibility Al Clayey Soil - Highly Compressible	 Water Elevation Standard Penetration Boring Auger Boring Rod Sounding Sample N Standard Penetration Test Blow Count Per Foot For: 2" O. D. Sampler 1³/₈" I. D. Sampler Hammer Weight Of 140 Lbs.
ROCK QUALITY DESIGNATIONR.O.D. (%)ROCK<25	Hammer Fall Of 30"VSField Vane Shear TestUSUndisturbed Soil SampleBBlastDCDiamond CoreMDMud DrillWAWash AheadHSAHollow Stem AugerAXCore Size 11/8"BXCore Size 2 1/8"MDouble Tube Core Barrel UsedLLLiquid LimitPLPlastic LimitPIPlastic ImitPIPlasticity IndexNPNon PlasticWMoisture Content (Dry Wgt.Basis)DDry
SHEAR STRENGTHUNDRAINEDSHEAR STRENGTHIN P.S.F.CONSISTENCY<250	M Moist MTW Moist To Wet W Wet Sat Saturated Bo Boulder Gr Gravel Sa Sand Si Silt CI Clay HP Hardpan Le Ledge NLTD No Ledge To Depth CNPF Can Not Penetrate Further TLOB Top of Ledge Or Boulder NR No Recovery Rec. Recovery %Rec. Percent Recovery
CORRELATION GUIDE OF "N" TO DENSITY CONSISTENCYDENSITY (GRANULAR SOILS)CONSISTENCY (COHESIVE SOILS)DESCRIPTIVE N (S5DESCRIPTIVE TERM (S5DESCRIPTIVE N TERM (S5N (S5TERM Very Loose (S5N (COHESIVE SOILS)N (S5TERM (COHESIVE SOILS)N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5TERM (S5N (S5	ROD Rock Quality Designation CBR California Bearing Ratio < Less Than > Greater Than R Refusal (N > 100) VTSPG NAD83 - See Note 7 <u>COLOR</u> blk Black pnk Pink bl Blue pu Purple brn Brown rd Red dk Dark tn Tan gry Gray wh White gn Green yel Yellow It Light mltc Multicolored or Orange
DEFINITION	IS (AASHTO)
 BEDROCK (LEDGE) - Rock in its native location of indefinite thickness. BOULDER - A rock fragment with an average dimension > 12 inches. COBBLE - Rock fragments with an average dimension between 3 and 12 inches. GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve). SAND - Particles of rock < 0.0787" (#200 sieve). 	 VARVED - Alternate layers of silt and clay. HARDPAN - Extremely dense soil, cemented layer, not softened when wet. MUCK - Soft organic soil (containing > 10% organic material. MOISTURE CONTENT - Weight of water divided by dry weight of soil. FLOWING SAND - Granular soil so saturated (loose) that it flows

- SILT Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

- dense soil, softened
- soil (containing ial.
- ight of water ght of soil.
- ar soil so nat it flows into drill casing during extraction of wash rod.
- STRIKE Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP Inclination of bed with a horizontal plane.

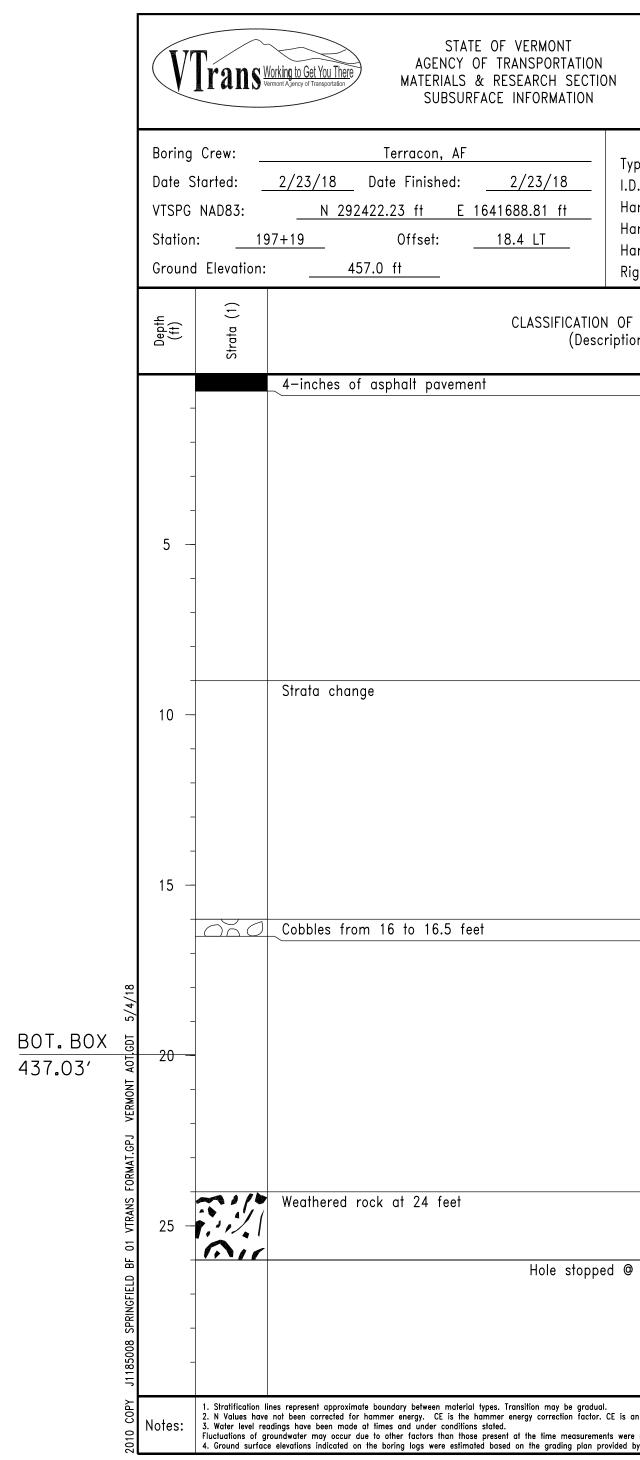




- I. The subsurface explorations shown herein were made between 02/22/2018 and 02/23/2018 by Terracon, AF.
- ties and descriptions are based on engineering interpretation from available subsurface information by reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- 3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.

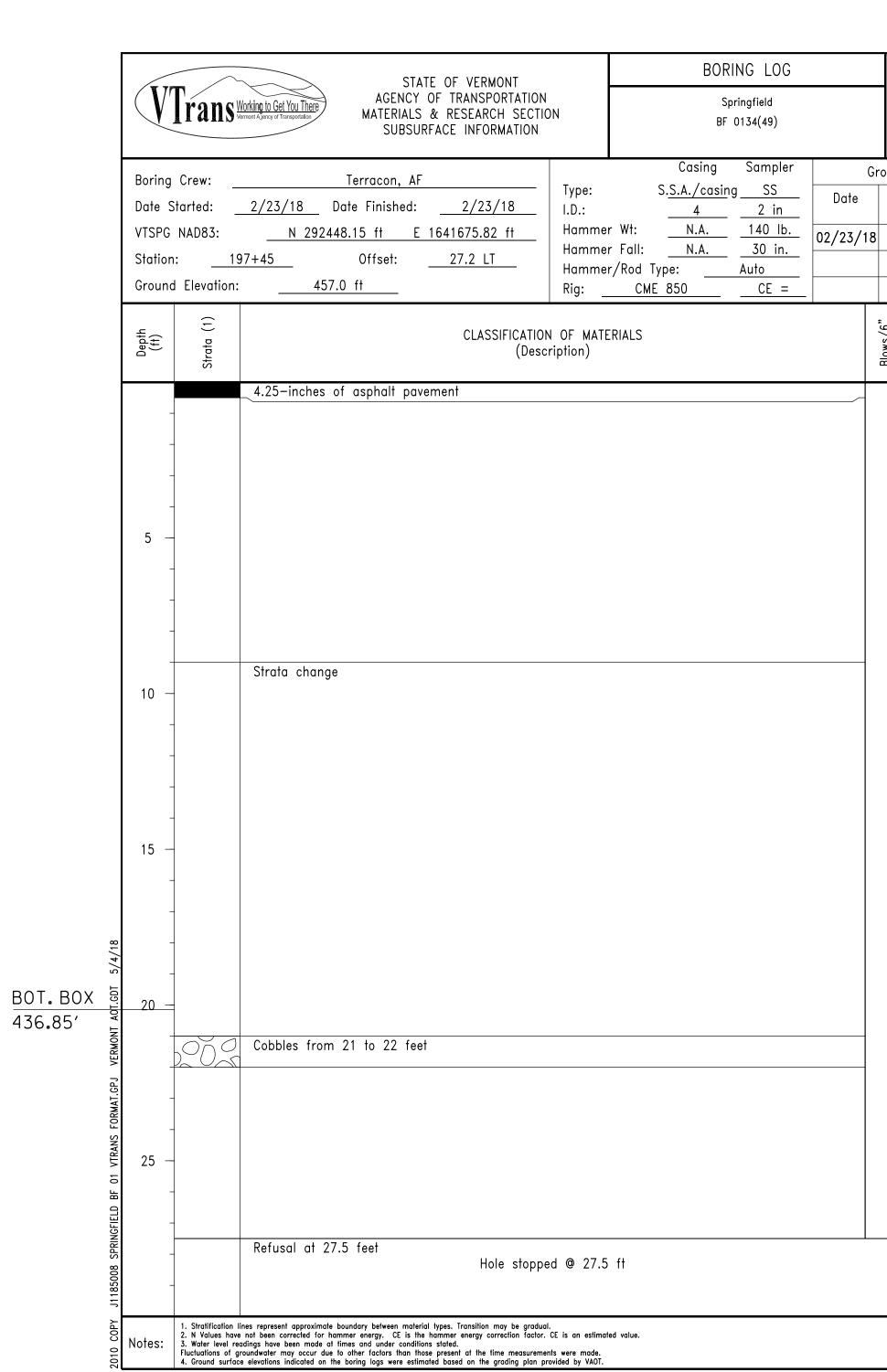
_		STATE OF VE	RMONT	BORING LOG	
V	Trans	Working to Get You There Vermont Ajency of Transportation SUBSURFACE INF	SPORTATION ARCH SECTION	Springfield BF 0134(49)	
Date S VTSPG Statior	Started: _ NAD83: n:1	Terracon, AF <u>2/22/18</u> Date Finished: <u>2/</u> <u>N 292416.89 ft E 1641685</u> <u>97+11</u> Offset: <u>22.9</u> : <u>459.0 ft</u>	<u>22/18</u> I.D.: . <u>82 ft</u> Hamm <u>LT</u> Hamm	CasingSamplerS.S.A./casingSS42 iner Wt:N.A.140 lb.er Fall:N.A.30 in.er/Rod Type:AutoCME 850CE =	Date
Depth (ft)	Strata (1)	CL	ASSIFICATION OF MAT (Description)	TERIALS	
-		4—inches of asphalt pavement Sand, trace gravel			
5 -		Concrete (2-inches thick) at 4 feet			/
- 10 —	-		Hole stopped @ 10.	0 ft	
- 15 –	-				
-	-				
20 -	-				
- 25 -	-				
-					

	Bor	ing No	.:	P-1	01		
	Pag	je No.:		1 of	1		
	Pin No.: 16B068						
	Checked By: <u>AS</u>						
Gro			bservat				
	Depth Notes						
	(ft))					
Blows/6"	(N Value)	Moisture Content %	Gravel %	Sand %	Fines %		
		7/6	era		n		



an estimated value.				2112		7
9 26.0 ft						
			2 ŭ			
MATERIALS		Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
ammer Fall: <u>N.A.</u> <u>30 in.</u> ammer/Rod Type: <u>Auto</u> ig: <u>CME 850 CE =</u>		10.0				
vpe: S.S.A./casing SS D.: 4 2 in ammer Wt: N.A. 140 lb.	Date 02/23/18	Dep (ft 13.5		N	lotes	
Casing Sampler	Gr	oundw		By: Observa	<u>AS</u> vations	
Springfield BF 0134(49)			ge No No.:		<u>1 of</u> 16B06	

PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: 16b068/ PROJECT LEADER: 1 DESIGNED BY: (BORING LOG SHEET	N.WARK G. LAROCHE	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY:G.DARGAN SHEET 19 OF 32



	ing No		P-1	
	ge No.:	_	1 of	
	No.:		16B068	3
	ecked		A	s
Groundw	ater 0	bservat	ions	
Dep (ft	th	N	otes	
8 12.0				
- 12.1	-			
:/6" ilue)	Moisture Content %	%	%	%
Blows/6" (N Value)	Moist Conte	Gravel %	Sand %	Fines %
		2 1 12	360	

	BF 0134(49) BF 0134(49) Casing Sampler Type: S. <u>S.A./casing SS</u> I.D.: <u>4</u> <u>2 in</u> Hammer Wt: <u>N.A.</u> <u>140 lb.</u> Hammer Fall: <u>N.A.</u> <u>30 in.</u> Hammer/Rod Type: <u>Auto</u> Rig: <u>CME 850</u> <u>CE = 1.33</u> ON OF MATERIALS scription) ff	Pi Cr Ground Date De	Content %	By:)bserva N	otes Sand	8
SUBSURFACE INFORMATION Terracon, AF 2/22/18 Date Finished: 2/22/18 N 292372.10 ft E 1641702.97 ft 196+63 Offset: 18.6 LT on: 461.0 ft CLASSIFICATION (Des 4-inches of asphalt pavement, 0.0 ft - 0.4 A-4, GrSaSi, brown, Rec. = 1.67 ft A-4, GrSaSi, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa, brown, Rec. = 0.67 ft	Casing Sampler Type: S.S.A./casing SS I.D.: 4 2 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto Rig: CME 850 CE = 1.33 ON OF MATERIALS scription)	Cr Ground Date De (f 02/22/18 14 02/22/18 14 02/22/18 14 00 02/22/18 14 00 00 00 00 00 00 00 00 00 00 00 00 00	ecked vater (oth 5 Coutent % 5	By:)bserva N N Stare	A tions otes & pups	S
2/22/18 Date Finished: 2/22/18 N 292372.10 ft E 1641702.97 ft 196+63 Offset: 18.6 LT on: 461.0 ft CLASSIFICATIO (Designation of the second	Type: S.S.A./casing SS I.D.: 4 2 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto Rig: CME 850 CE = 1.33 ON OF MATERIALS Scription)	Ground Date De (f 02/22/18 14 02/22/18 14 02/22/22/18 14 02/22/22/28 14 02/22/22/18 14 02/22/22/28 14 02/22/22/28 14 02/22/28 14 02/22/28 14 02/22/28 14 02/22/28 14 02/28 1	vater (oth t) 5 Content % 5	Cravel %	otes % Pung S	
2/22/18 Date Finished: 2/22/18 N 292372.10 ft E 1641702.97 ft 196+63 Offset: 18.6 LT on: 461.0 ft CLASSIFICATIO (Designation of the second	I.D.: 4 2 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto Rig: CME 850 CE = 1.33 ON OF MATERIALS Scription)	(f 02/22/18 14 	t) Content %	Gravel %	Sand %	
196+63 Offset: 18.6 LT on: 461.0 ft CLASSIFICATION (Description of the second of the se	Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto Rig: CME 850 CE = 1.33 ON OF MATERIALS Scription)	02/22/18 14	Content %		Sand	
on: <u>461.0 ft</u> CLASSIFICATION (Desenvector) 4-inches of asphalt pavement, 0.0 ft - 0.4 A-4, GrSaSi, brown, Rec. = 1.67 ft A-1-b, GrSa, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa, brown, Rec. = 0.67 ft	Hammer Fall: <u>N.A.</u> <u>30 in.</u> Hammer/Rod Type: <u>Auto</u> Rig: <u>CME 850</u> <u>CE = 1.33</u> ON OF MATERIALS scription)	10-16- 25-40 (41) 15-18- 20-20 (38)	5		Sand	
CLASSIFICATION 4-inches of asphalt pavement, 0.0 ft - 0.4 A-4, GrSaSi, brown, Rec. = 1.67 ft A-1-b, GrSa, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4. Sa, brown, Rec. = 0.67 ft	Rig: CME 850 CE = 1.33 ON OF MATERIALS scription)	10-16- 25-40 (41) 15-18- 20-20 (38)	5		Sand	
(Des 4-inches of asphalt pavement, 0.0 ft - 0.4 A-4, GrSaSi, brown, Rec. = 1.67 ft A-1-b, GrSa, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa, brown, Rec. = 0.67 ft	scription) ft	10-16- 25-40 (41) 15-18- 20-20 (38)	5		Sand	
A-4, GrSaSi, brown, Rec. = 1.67 ft A-1-b, GrSa, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa, brown, Rec. = 0.67 ft		10-16- 25-40 (41) 15-18- 20-20 (38)	5			
A-4, GrSaSi, brown, Rec. = 1.67 ft A-1-b, GrSa, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa, brown, Rec. = 0.67 ft		25-40 (41) 15-18- 20-20 (38)		20.4	33.1	
A-1-b, GrSa, brown, Rec. = 1.33 ft Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa, brown, Rec. = 0.67 ft	feet south and resumed sampling	25-40 (41) 15-18- 20-20 (38)		20.4	33.1	
Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa. brown, Rec. = 0.67 ft	feet south and resumed sampling	20–20 (38)	5			46
Rec. = 0.42 ft, 5.0 ft - 7.0 ft Auger refusal at 5.5 feet, offset borehole 3 ft A-2-4, Sa. brown, Rec. = 0.67 ft	feet south and resumed sampling	50/5"		25.8	58.1	1
A-2-4, Sa, brown, Rec. = 0.67 ft						
		3-3-2-	3 5	11.5	74.5	1
		10.11	6	20.5	EE 0	1
ool A−1−b, GrSa, brown, Rec. = 0.67 ft		10-11- 10-16 (21)	6	29.5	55.8	1
A−1−b, Sa, brown, Rec. = 0.25 ft		50/3"	6	18.7	66.7	1
A-2-4, Sa, brown, Rec. = 0.67 ft, wood frag	gments in spoon tip	39	13	12.3	68.2	1
		11-7-7-	11-7-7- 13		60.6	1
Cobbles from 16.5 to 17 feet		(14)				
°° A−1−b, GrSa, brown, Rec. = 1.5 ft		18-25- 26-50/1 (51)	" 13	22.5	63.2	1.
on Offset borehole 3 feet south						
Rec. = 0.0 ft, 20.0 ft - 22.0 ft, No recovery	, gravel/crushed rock in spoon tip	37-21- 24-29 (45)				
22.0 ft - 25.5 ft, Cobbles from 22.5 to 23.5	5 feet, weathered rock in spoon tip	50/1"				
(1						
	nad @ 255 ft					
	A-1-b, GrSa, brown, Rec. = 1.67 ft Cobbles from 16.5 to 17 feet A-1-b, GrSa, brown, Rec. = 1.5 ft Offset borehole 3 feet south Rec. = 0.0 ft, 20.0 ft - 22.0 ft, No recovery 22.0 ft - 25.5 ft, Cobbles from 22.5 to 23.5	 A-2-4, Sa, brown, Rec. = 0.67 ft, wood fragments in spoon tip A-1-b, GrSa, brown, Rec. = 1.67 ft Cobbles from 16.5 to 17 feet A-1-b, GrSa, brown, Rec. = 1.5 ft Offset borehole 3 feet south Rec. = 0.0 ft, 20.0 ft - 22.0 ft, No recovery, gravel/crushed rock in spoon tip 22.0 ft - 25.5 ft, Cobbles from 22.5 to 23.5 feet, weathered rock in spoon tip 	A-2-4, Sa, brown, Rec. = 0.67 ft, wood fragments in spoon tip $2-2-4-39$ (6)A-1-b, GrSa, brown, Rec. = 1.67 ft $11-7-7-13$ (14)Cobbles from 16.5 to 17 feet $18-25-26-50/1$ (51)A-1-b, GrSa, brown, Rec. = 1.5 ft $18-25-26-50/1$ (51)Offset borehole 3 feet south $37-21-24-29$ (45)	A-2-4, Sa, brown, Rec. = 0.67 ft, wood fragments in spoon tip $2-2-4-39$ (6)13 39 (6)11-7-7-13 (14)11-7-7-13 (14) 10 Cobbles from 16.5 to 17 feet A-1-b, GrSa, brown, Rec. = 1.5 ft18-25-26-50/1" (51)13 00 Offset borehole 3 feet south $37-21-24-29$ (45) $37-21-24-29$ (45) 22.0 ft - 25.5 ft, Cobbles from 22.5 to 23.5 feet, weathered rock in spoon tip $37-21-24-29$ (45)	A-2-4, Sa, brown, Rec. = 0.67 ft, wood fragments in spoon tip $2-2-4-39$ 13 12.3 39 (6) 13 28.2 30 $A-1-b$, GrSa, brown, Rec. = 1.67 ft $11-7-7-13$ 13 28.2 144 $11-7-7-13$ 13 22.5 144 $11-7-7-13$ 13 22.5 150 $Cobbles$ from 16.5 to 17 feet $18-25-26-50/1"$ 13 22.5 150 Offset borehole 3 feet south $11-7-7-13$ 13 22.5 00 Offset borehole 3 feet south $11-2.0$ ft, No recovery, gravel/crushed rock in spoon tip $37-21-24-29$ 24-29 24-29 22.0 ft - 25.5 ft, Cobbles from 22.5 to 23.5 feet, weathered rock in spoon tip $50/1"$ $50/1"$ $50/1"$	$A-2-4$, Sa, brown, Rec. = 0.67 ft, wood fragments in spoon tip $2-2-4-39$ (6) 13 12.3 68.2 30° $A-1-b$, GrSa, brown, Rec. = 1.67 ft $11-7-7-13$ (14) 13 28.2 60.6 30° $A-1-b$, GrSa, brown, Rec. = 1.5 ft $11-7-7-2-13$ (14) 13 22.5 63.2 30° $A-1-b$, GrSa, brown, Rec. = 1.5 ft $11-7-7-2-15-26-50/1"$ (51) 13 22.5 63.2 30° Offset borehole 3 feet south $7-21-24-29$ (45) $37-21-24-29$ (45) $37-21-24-29$ (45) $37-21-24-29$ (45)

PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: 160068/	′sl6b068bor.dgn	PLOT DATE: 07-FEB-2019
PROJECT LEADER:	N.WARK	DRAWN BY: G.LAROCHE
DESIGNED BY:	G.LAROCHE	CHECKED BY: G. DARGAN
BORING LOG SHEET	2	SHEET 20 OF 32

	V	Trans	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG Springfield BF 0134(49)	
	Date VTSPG Statio	Started: _ S NAD83:	Terracon, AF 2/23/18 Date Finished: 2/23/18 N 292455.03 ft E 1641724.71 ft 17+48 Offset: 21.1 RT 454.0 ft	CasingSamplerType:S.S.A./casingSSI.D.:42 inHammer Wt:N.A.140 lb.Hammer Fall:N.A.30 in.Hammer/Rod Type:AutoRig:CME 850CE = 1.33	Gro 18
	Depth (ft)	Strata (1)	CLASSIFICATION (Descri		""
			4.25-inches of asphalt pavement, 0.0 ft - 0.5	ft	
			Brown, Rec. = 1.33 ft, 1.0 ft - 3.0 ft		24 24 (
			A-2-4, SiSa, brown, Rec. = 1.83 ft		20 28
	5 -		A—2—4, GrSa, brown, Rec. = 1.33 ft		10
			A−1−b, GrSa, brown, Rec. = 0.67 ft		4
	10 -		A-2-4, SiSa, brown, Rec. = 1.5 ft		5- 1:
			A−1−b, GrSa, brown, Rec. = 1.0 ft		25 1: (
			_Cobbles from 14 to 14.5 feet, 14.0 ft - 14.5 f	t	
	15 -		A−1−b, SaGr, dark gray/brown, Rec. = 0.8 ft		25 3 (
BOT. BOX 436.47'			Dark gray/brown, Rec. = 0.67 ft, 17.0 ft - 19.	.0 ft	22 23
VERMONT AOT.GDT 5/			Olive brown, Rec. = 1.33 ft, 20.0 ft - 22.0 ft		9- 16
					(
VTRANS FORMAT.GPJ	25	_			
			A−1−b, GrSa, olive brown, Rec. = 1.0 ft		14 13 (
J1185008 SPRINGFIELD BF 01		_	Hole stopped	1 @ 27.0 ft	
2010 COPY J1	Notos	2. N Values have 3. Water level red Fluctuations of a	nes represent approximate boundary between material types. Transition may be gradual. not been corrected for hammer energy. CE is the hammer energy correction factor. C idings have been made at times and under conditions stated. oundwater may occur due to other factors than those present at the time measurements e elevations indicated on the boring logs were estimated based on the grading plan prov	s were made.	

10^{-10-1} 8^{-10} </th <th></th> <th></th> <th></th> <th></th> <th></th>								
Pin No.: 16B068 Checked By: AS Depth Notes 13.5	Bor	ing No	.:	B-1	02			
Checked By: AS AS Depth (ft) Notes Depth (ft) Notes \sim 3 13.5 \sim \sim 24-19- 24-26 (43) \sim \sim \sim \sim 22-19- 24-26 (43) 14 9.7 64.8 25.5 10-10- 13-8 (23) 8 20.0 61.6 18.4 5-15- 15-26 (30) 16 8.7 68.7 22.5 25-20- 12-16 (32) 11 40.7 48.8 10.5 25-27- 31-22 (59) 10 49.1 42.0 9.0 14-12- 13-20 15 24.8 63.4 11.7	Pag	je No.:	_	<u>1 of 1</u>				
Sroundwater Observations Depth (ft) Notes 3 13.5 3 13.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 3 3.5 $24-19-2$ 3.5 $24-26$ 4.8 $24-26$ 4.8 $22-28-20$ 14 9.7 64.8 25.5 $10-10-10-15-26$ 8 27.8 58.5 13.6 $5-15-15-26$ 16 8.7 68.7 22.5 $25-20-12-16$ 11 40.7 48.8 10.5 $22-22-31-22$ 10 49.1 42.0 9.0 $9-10-16-14$ 25.5 24.8 63.4 11.7 $14-12-12-13-20$ 15 24.8	Pin	No.:		16B068	8			
Depth (ft) Notes 13.5 - 13.5 - 13.5 - 1 <th colspan="8"></th>								
(ft) 3 13.5 3 13.5 3 3.5 3 13.5 3.5 3.5 3.5 3 3.5 3.5 3.5 3.5 3.5 3.5 $24-19 3.5$ 3.5	Groundw	ater 0	bservat	ions				
3 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 $24-26$ 14 9.7 64.8 25.5 $20-28-20$ 14 9.7 64.8 25.5 $10-10 8$ 20.0 61.6 18.4 $23-20$ 16 8.7 68.7 22.5 $13-8$ (23) 16 8.7 68.7 22.5 $5-15-15-15-26$ 16 8.7 68.7 22.5 (30) 11 40.7 48.8 10.5 $25-20-1$ 11 40.7 48.8 10.5 $22-31-22$ 10 49.1 42.0 9.0 $9-10-16-14$ (26) 15 24.8 63.4 11.7			N	otes				
$\frac{1}{10}$ </th <th></th> <th></th> <th></th> <th></th> <th></th>								
$24-19-24-26$ 14 9.7 64.8 25.5 $20-28-20$ 14 9.7 64.8 25.5 $10-10-10-13-8$ 20.0 61.6 18.4 $1-4-4-6$ 8 27.8 58.5 13.6 $5-15-15-26$ 16 8.7 68.7 22.5 (30) 11 40.7 48.8 10.5 $25-20-12-16$ 11 40.7 48.8 10.5 (32) 10 49.1 42.0 9.0 $25-27-31-22$ 10 49.1 42.0 9.0 $(25)^{-27-1}$ 15 24.8 63.4 11.7 $(26)^{-10-1}$ 15 24.8 63.4 11.7								
$24-19-24-26$ 14 9.7 64.8 25.5 $20-28-20$ 14 9.7 64.8 25.5 $10-10-10-13-8$ 20.0 61.6 18.4 $1-4-4-6$ 8 27.8 58.5 13.6 $5-15-15-26$ 16 8.7 68.7 22.5 (30) 11 40.7 48.8 10.5 $25-20-12-16$ 11 40.7 48.8 10.5 (32) 10 49.1 42.0 9.0 $25-27-31-22$ 10 49.1 42.0 9.0 $(25)^{-27-1}$ 15 24.8 63.4 11.7 $(26)^{-10-1}$ 15 24.8 63.4 11.7								
$24-19-24-26$ 14 9.7 64.8 25.5 $20-28-20$ 14 9.7 64.8 25.5 $10-10-10-13-8$ 20.0 61.6 18.4 $1-4-4-6$ 8 27.8 58.5 13.6 $5-15-15-26$ 16 8.7 68.7 22.5 (30) 11 40.7 48.8 10.5 $25-20-12-16$ 11 40.7 48.8 10.5 (32) 10 49.1 42.0 9.0 $25-27-31-22$ 10 49.1 42.0 9.0 $(25)^{-27-1}$ 15 24.8 63.4 11.7 $(26)^{-10-1}$ 15 24.8 63.4 11.7		~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	20					
$24-19-24-26$ 14 9.7 64.8 25.5 $20-28-20$ 14 9.7 64.8 25.5 $10-10-10-13-8$ 20.0 61.6 18.4 $1-4-4-6$ 8 27.8 58.5 13.6 $5-15-15-26$ 16 8.7 68.7 22.5 (30) 11 40.7 48.8 10.5 $25-20-12-16$ 11 40.7 48.8 10.5 (32) 10 49.1 42.0 9.0 $25-27-31-22$ 10 49.1 42.0 9.0 $(25)^{-27-1}$ 15 24.8 63.4 11.7 $(26)^{-10-1}$ 15 24.8 63.4 11.7	vs/6' Value	sture tent	vel %	% pu	es %			
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$\begin{array}{c cccc} 20-28-\\ 28-20\\ (56) \\ 14 \\ 9.7 \\ 64.8 \\ 25.5 \\ 10-10-\\ 13-8\\ (23) \\ -4-4-6 \\ (8) \\ 8 \\ 27.8 \\ 58.5 \\ 13.6 \\ 5-15-\\ (8) \\ 25-20-\\ 12-16\\ (30) \\ 25-20-\\ 12-16\\ (32) \\ 11 \\ 40.7 \\ 48.8 \\ 10.5 \\ 22-31-\\ 28-22\\ (59) \\ 9-10-\\ 16-14\\ (26) \\ 14-12-\\ 15 \\ 24.8 \\ 63.4 \\ 11.7 \\ $	24-26							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$. ,							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20-28- 28-20	14	9.7	64.8	25.5			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(56)							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10-10-	8	20.0	61.6	18.4			
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5-15-	16	8.7	68.7	22.5			
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14-12- 13-20 (25) 15 24.8 63.4 11.7	16-14							
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13–20 (25)	, . <u>.</u> -							
	14-12- 13-20	15	24.8	63.4	11.7			
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					90 N			

	STATE OF VERMONT		BORIN	IG LOG		Bori	ing No).:	B-1	03	
VTrong	Marking to Get You There AGENCY OF TRANSPORTA	TRANSPORTATION Springfield		ngfield	P		Page No.:		1 of	1 of 1	
V II ans	Vermont Agency of Transportation MATERIALS & RESEARCH SI SUBSURFACE INFORMATI		BF 0134(49)			Pin No.:			16B068		
						Che	cked	By:	A	S	
Boring Crew:	Terracon, AF	_	Casing	Sampler	Gr	oundw	ater O	bserva	tions		
-	2/22/18 Date Finished: 2/22/18	— Type: I.D.:	S. <u>S.A./casing</u> 4	 2 in	Date	Dept	h	Ν	otes		
	N 292427.53 ft E 1641738.53 ft	Hamme		1.40 11	02/22/18	(ft) 10.0					
	197+13 Offset: 31.8 RT	Hamme	r Fall: <u>N.A.</u>	<u> 30 in. </u>	02/22/10	10.0					
	n:457.0 ft		<i>, ,</i> <u> </u>	Auto							
	<u></u>	Rig:	CME 850	UE = 1.33							
Depth (ft) Strata (1)	CLASSIFIC/	TION OF MATE	- RIALS			/6 Ilue)	Moisture Content %	%	%	%	
Depth (ft) trata (Description)				Blows/6 (N Value)	Moist onter	Gravel	Sand	Fines	
∽							-0				
	A−2−4, Sa, brown, Rec. = 1.33 ft					3-8-8 (11)	10	15.4	64.9	19.7	
						('')					
	 A−2−4, SiSa, brown, Rec. = 1.33 ft 					-11-	11	9.3	69.6	21.2	
	/ ··· _ ·, ····, ····, ···· · ···				1	1-16		9.5	05.0	21.2	
0.00						(22)					
5 -/ / / /	$A^{-}Z^{-}4$, 5150, brown, Nec. – 1.25 m				11	-8-9-	12	13.9	59.3	26.9	
	¢					16 (17)					
					1 1	17	10	147	677	70 0	
	○ A-2-4, SiSa, gray, Rec. = 1.33 ft				1	-13- 3-14	10	14.3	53.7	32.0	
0.0	o					(26)					
10 0: ,0:	A−2−4, GrSiSa, gray, Rec. = 1.17 ft, stron	a netroleum (odor from the sample		5-	7-6-4	13	20.6	54.7	24.7	
		g penoleum (Ŭ	(13)	10	20.0	04.7	24.7	
	° A−2−4, GrSiSa, gray, Rec. = 1.33 ft, stron	g petroleum o	odor from the sample		4-	6-27- 25	14	23.1	46.7	30.2	
	• •				(33)						
· [.]											
15											
	A-1-b, GrSa, dark gray, Rec. = 0.5 ft	A-1-b, GrSa, dark gray, Rec. = 0.5 ft		1/	'-69- 0/0" 19+)	11	32.9	54.3	12.9		
		17 5 41			(1	19+)					
) Cobbles from 16.5 to 17.5 feet, 16.5 ft -	17.5 ff									
- 18											
5/4/18											
	A−2−4, SiSa, olive brown-gray, Rec. = 1.6	7 ft				-36- 4-25	14	7.1	65.7	27.3	
VERMONT						(70)					
FORMAT.GPJ											
FORM											
	A-2-4, GrSiSa, brown/gray, Rec. = 0.5 ft,	with weather	ed rock		30-	-50/2"	13	24.5	50.2	25.3	
5 25 -	Hole st	opped @ 24.8	ft								
BF											
008 S											
11185008 SPRINGFIELD BF 01 VTRANS											
	n lines represent approximate boundary between material types. Transition may be										
S Notos: 2. N Values h	ave not been corrected for hammer energy. CE is the hammer energy correction readings have been made at times and under conditions stated. groundwater may occur due to other factors than those present at the time mea	factor. CE is an estimat	ted value.] [=) F f Z	ec		
Plotes. 5. water level Fluctuations of 4. Ground sur	face elevations indicated on the boring logs were estimated based on the grading	plan provided by VAOT.							av viz Viz		

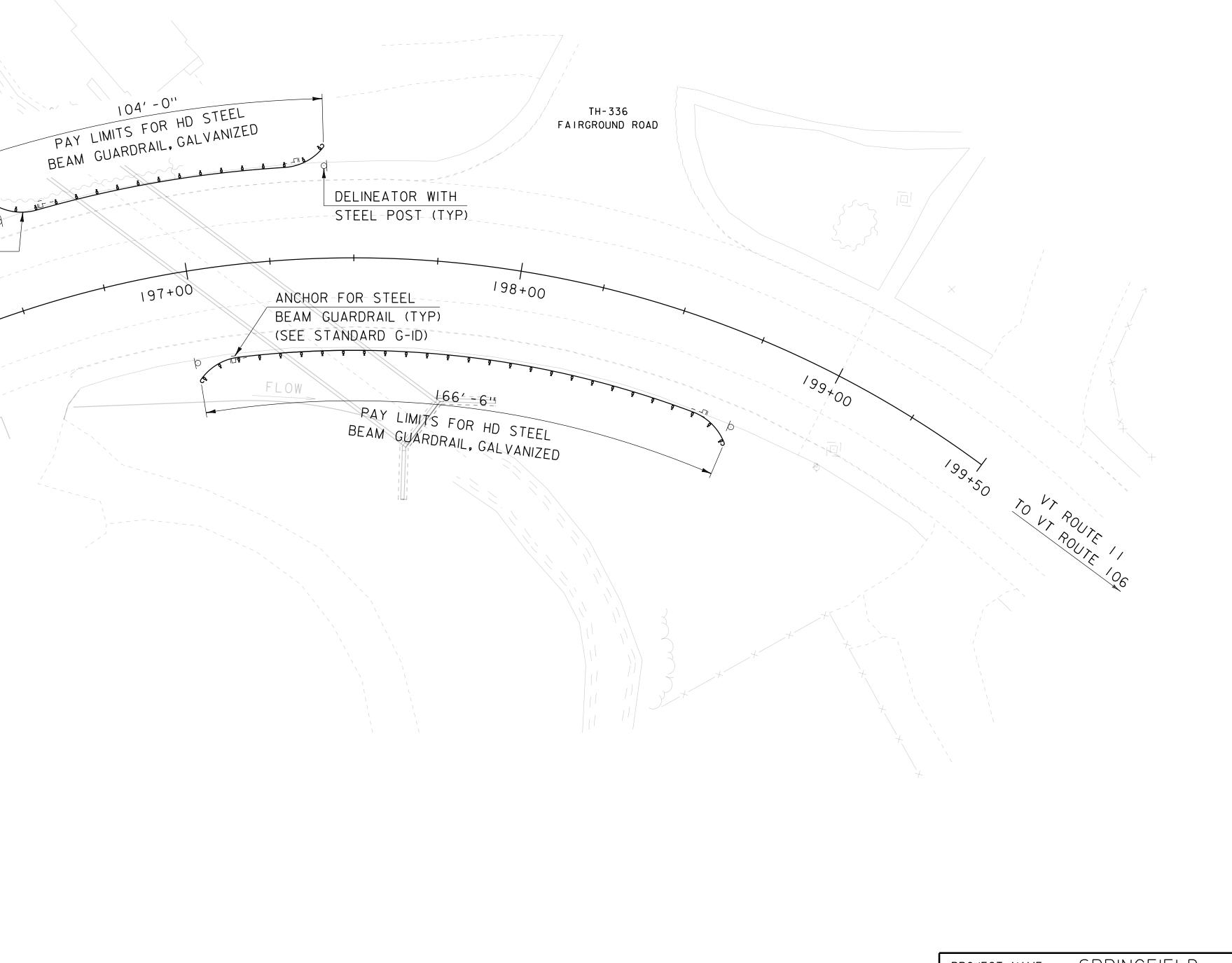
PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: 165068/3 PROJECT LEADER: N DESIGNED BY: G BORING LOG SHEET	I.WARK G. LAROCHE	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY: G. DARGAN SHEET 21 OF 32

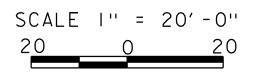
REMOVAL AND DISPOSAL OF GUARDRAIL STA 196+49.8 - STA 197+40.5 LT STA 197+24.6 - STA 198+75.8 RT HEAVY DUTY STEEL BEAM GUARDRAIL, GALVANIZED STA 196+51.8 - STA 197+41.4 LT STA 196+99.4 - STA 198+75.6 RT ANCHOR FOR STEEL BEAM RAIL STA 196+63.5 LT STA 197+34.3 LT STA 197+10.6 RT STA 198+66.5 RT DELINEATOR WITH STEEL POST STA 196+51.2 LT (GREEN) STA 197+41.8 LT (BLUE) STA 196+99.0 RT (BLUE) STA 198+76.3 RT (GREEN)

STEEL BEAM GUARDRAIL END TERMINALS (TYP) (SEE STANDARD G-ID)

196+00

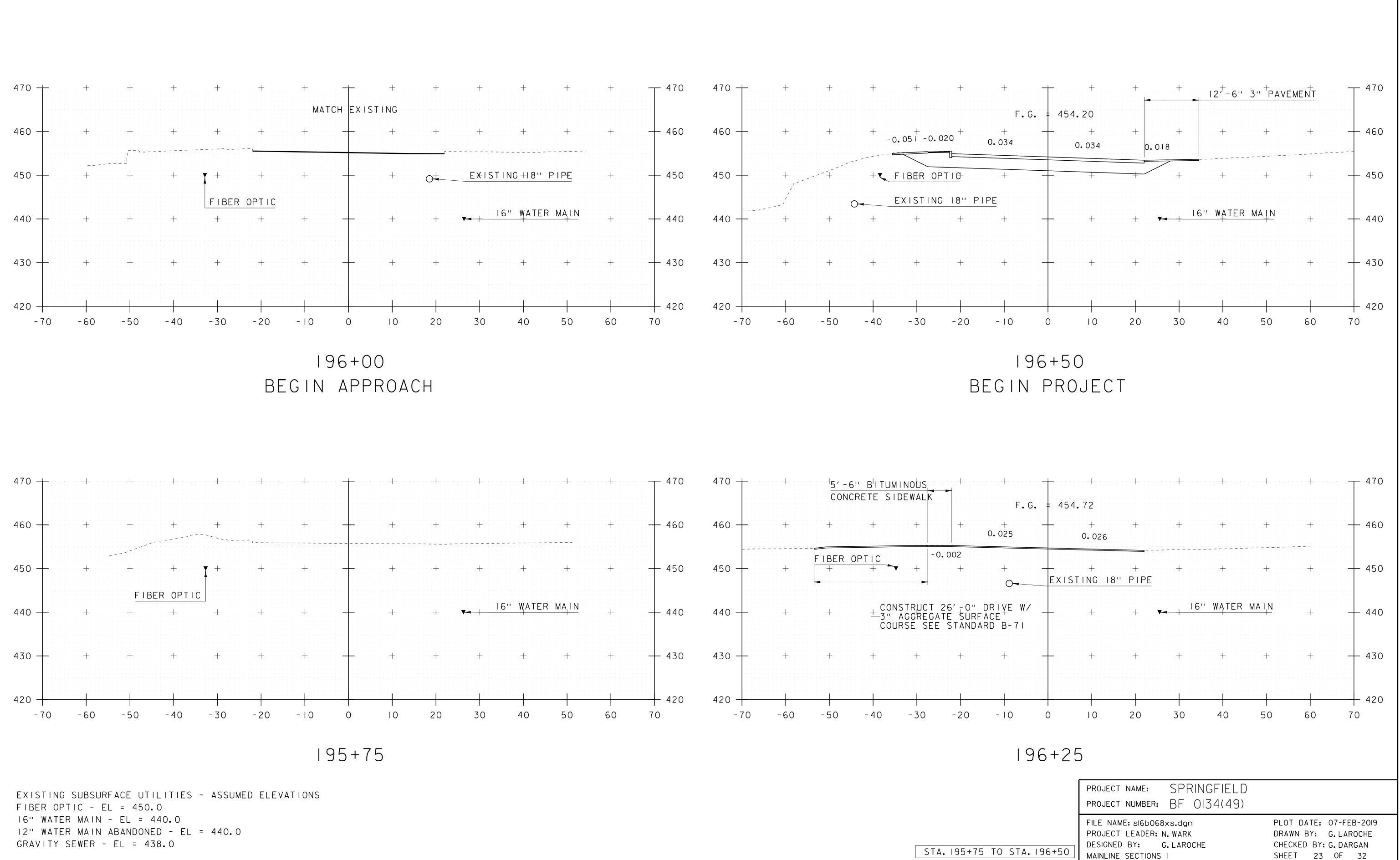
VT ROUTE II 195+25

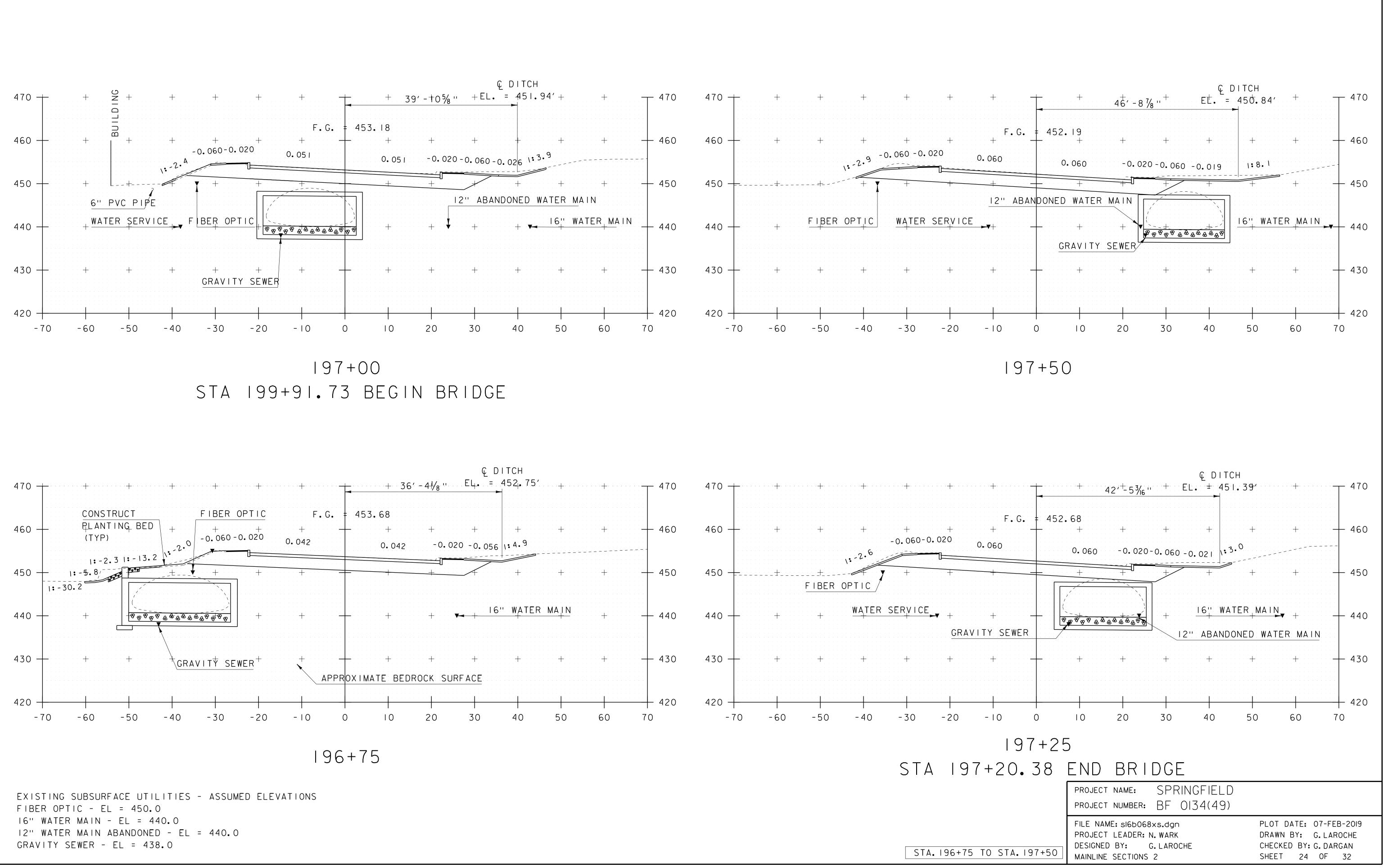


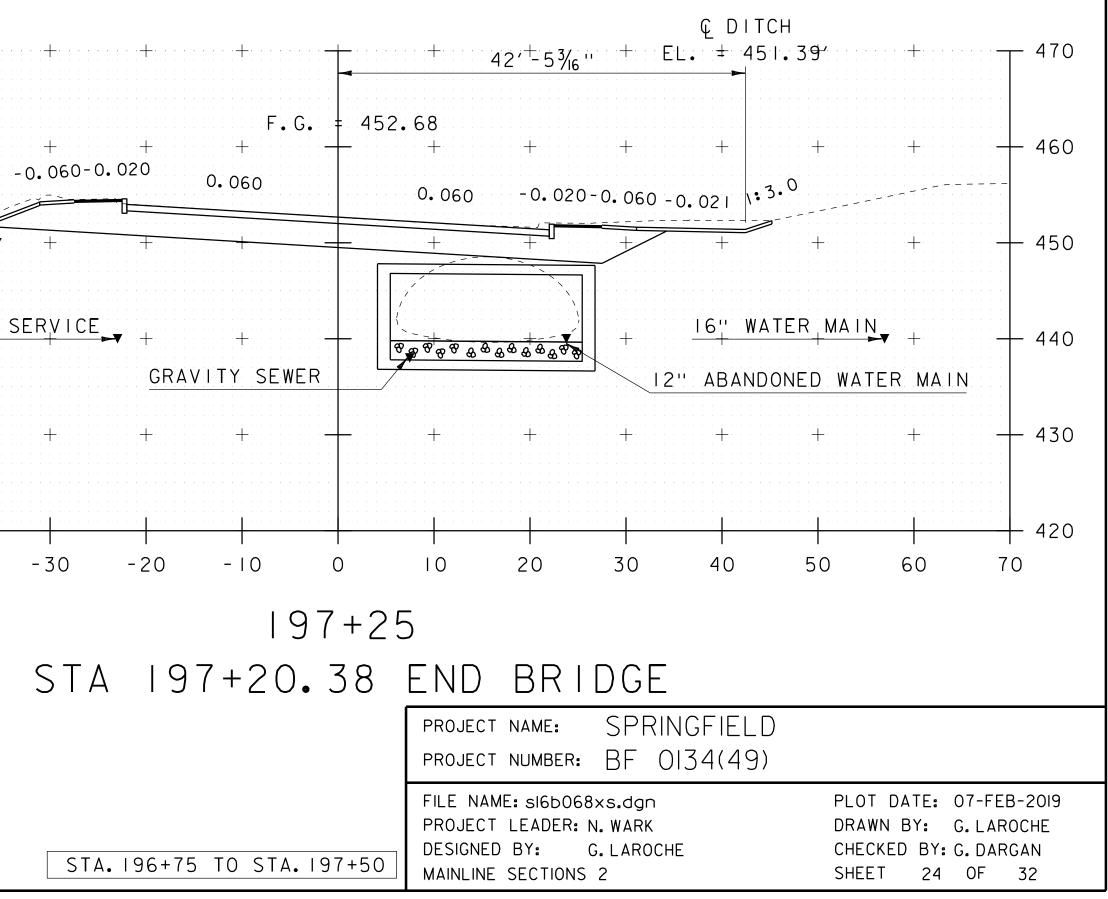


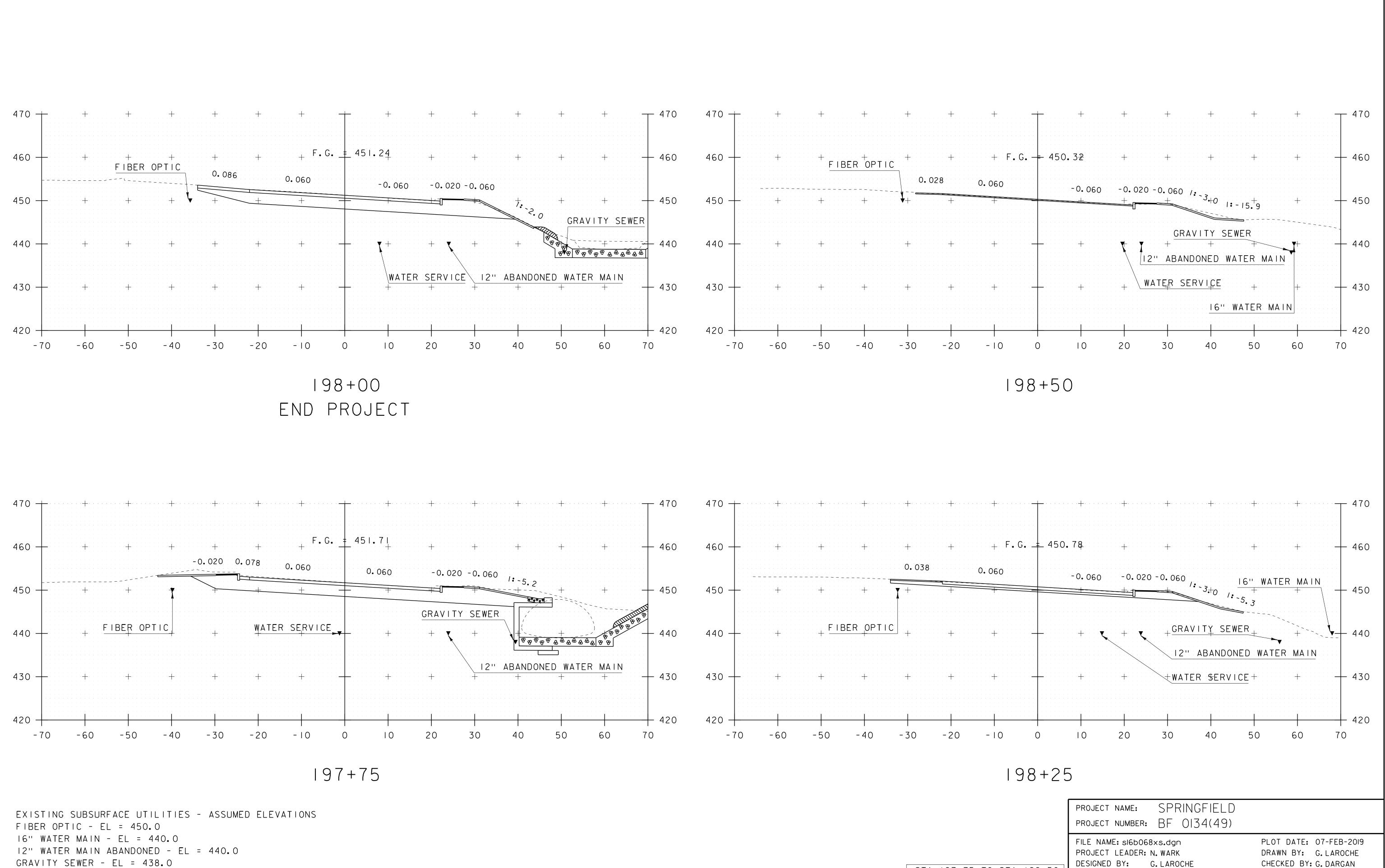
VT STATE PLANE GRID \rightarrow Z

PROJECT NAME:	SPRINGFIELD	
PROJECT NUMBER:	BF 0134(49)	
FILE NAME: 166068/ PROJECT LEADER: N DESIGNED BY: (RAIL LAYOUT SHEE	N. WARK G. LAROCHE	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY: G.DARGAN SHEET 22 OF 32





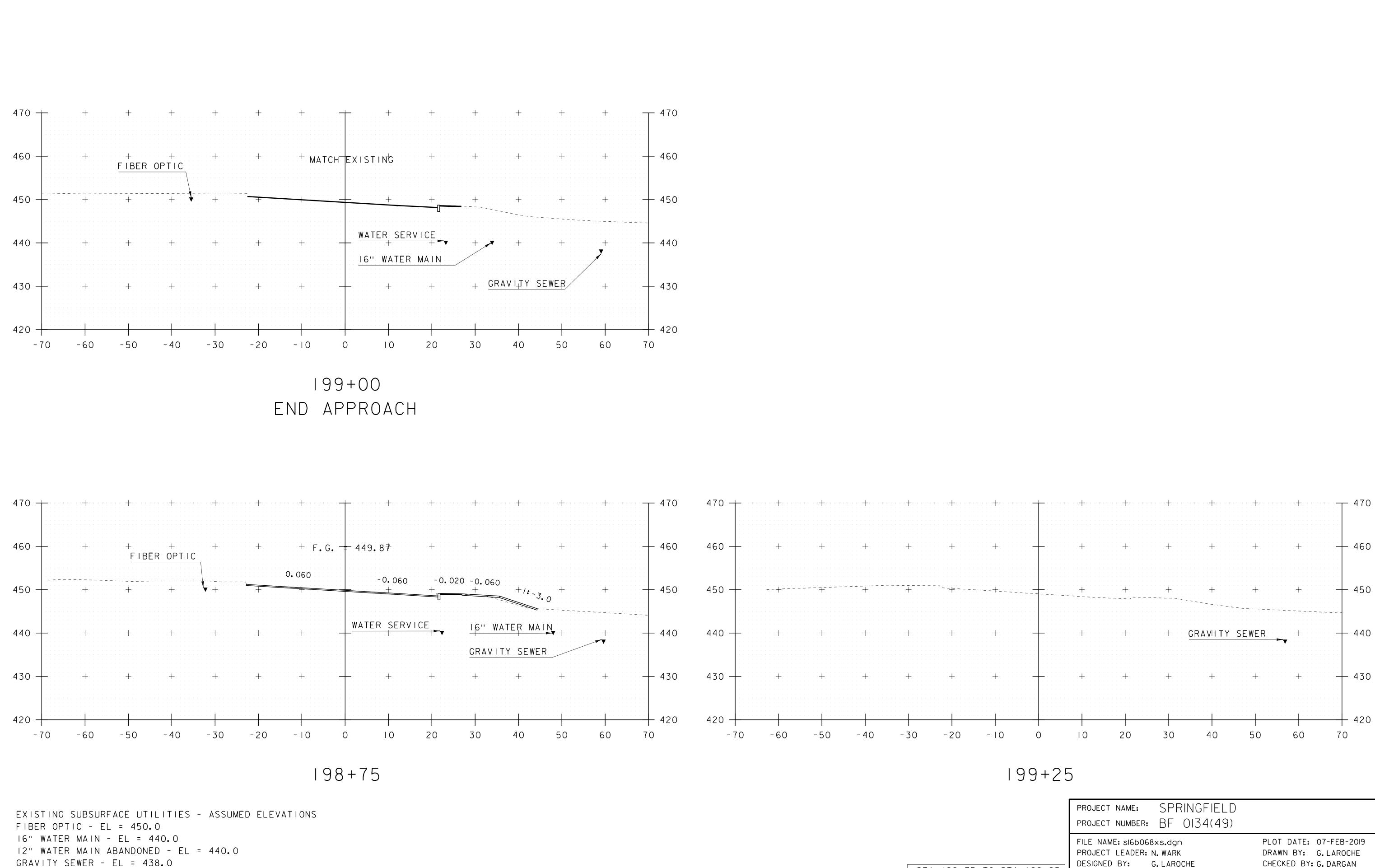




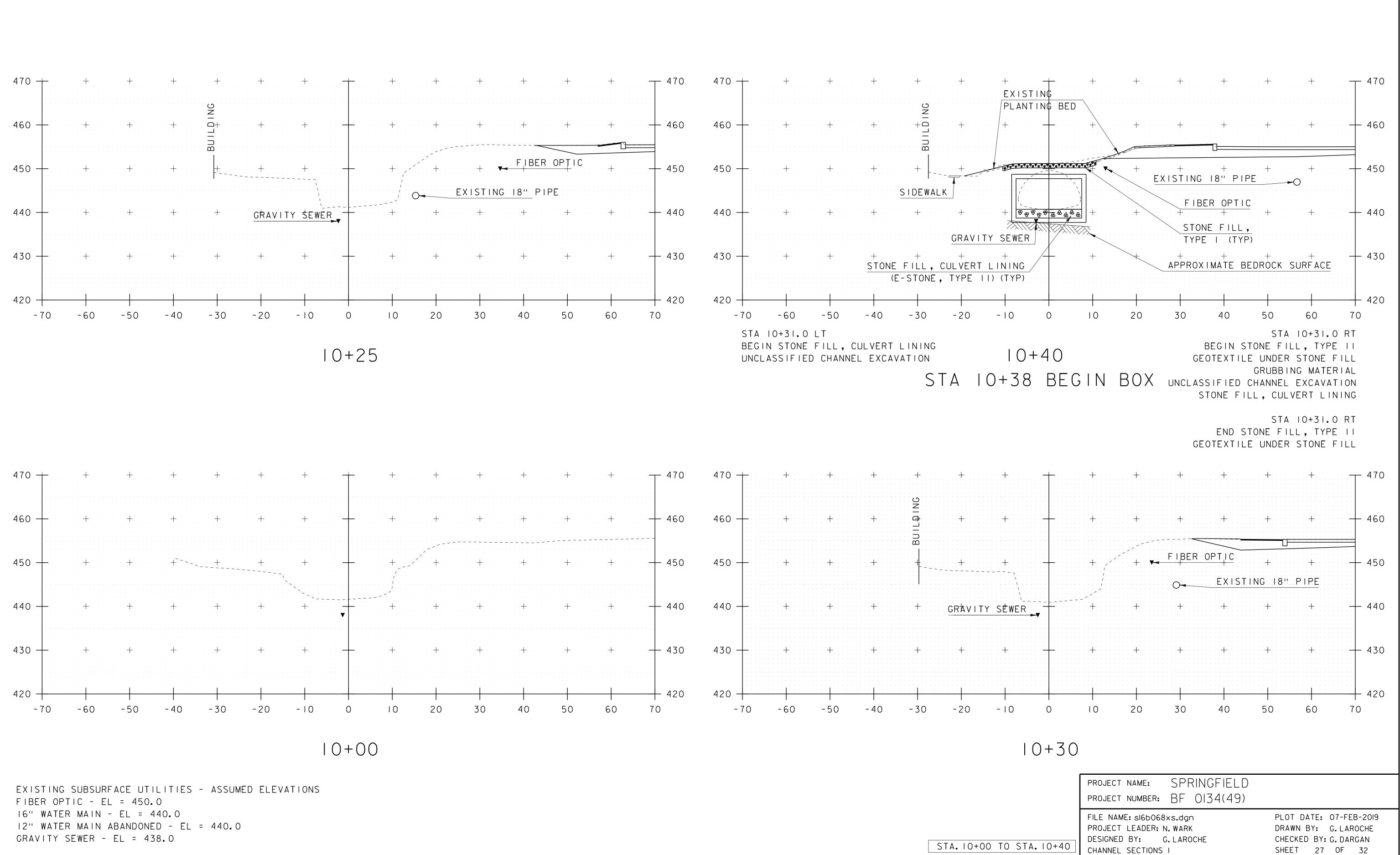
STA. 197+75 TO STA. 198+50

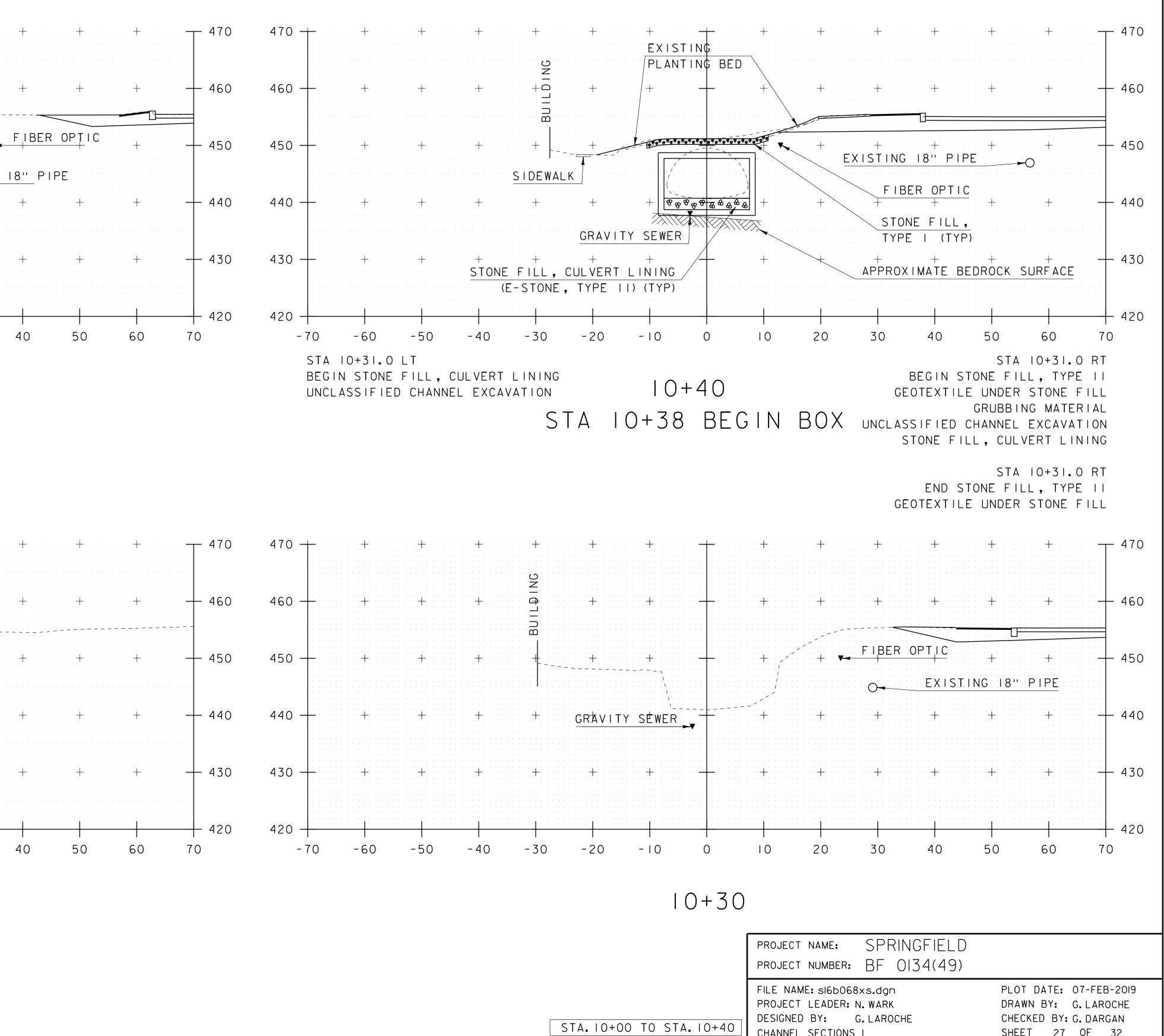
MAINLINE SECTIONS 3

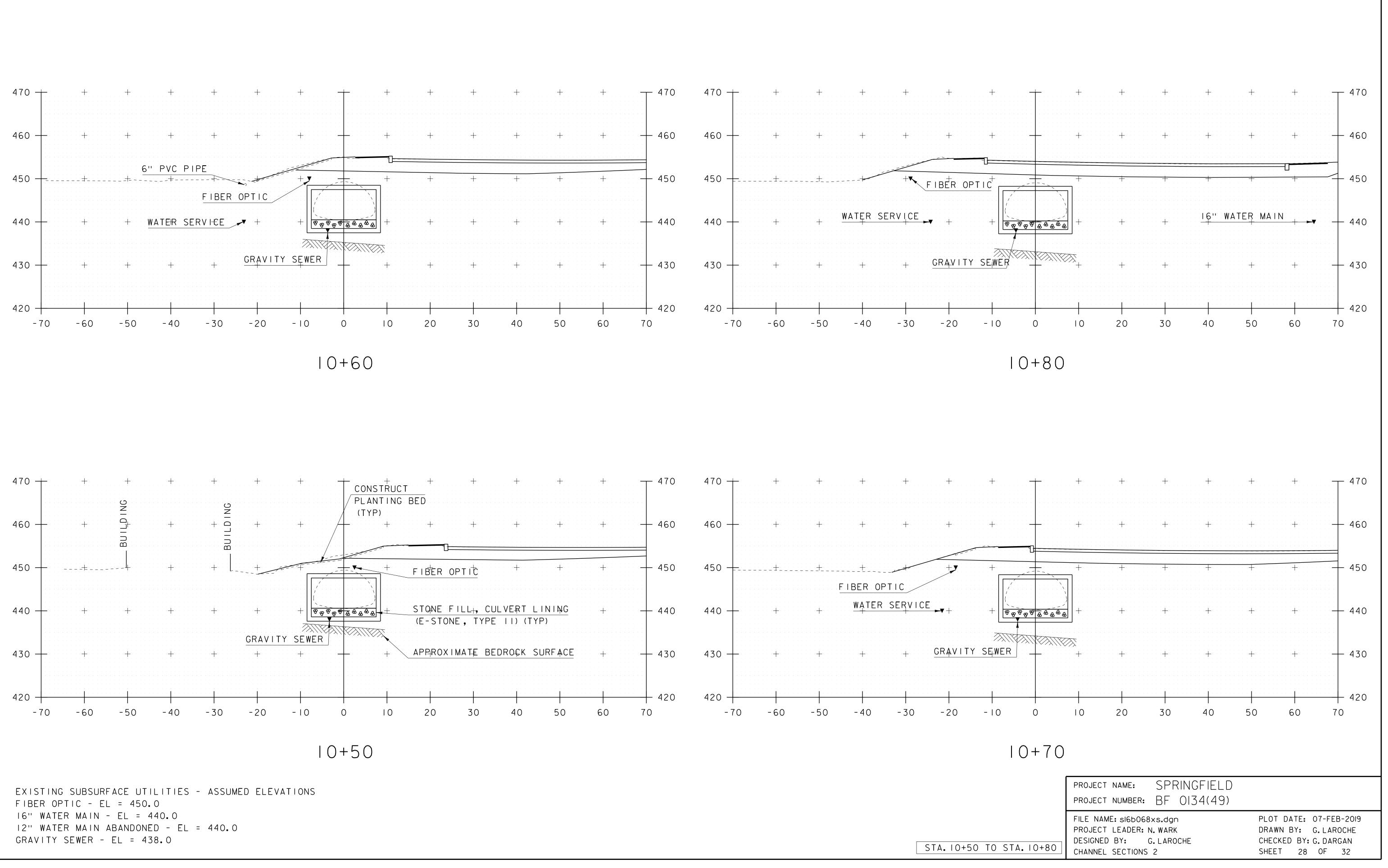
CHECKED BY: G. DARGAN SHEET 25 OF 32

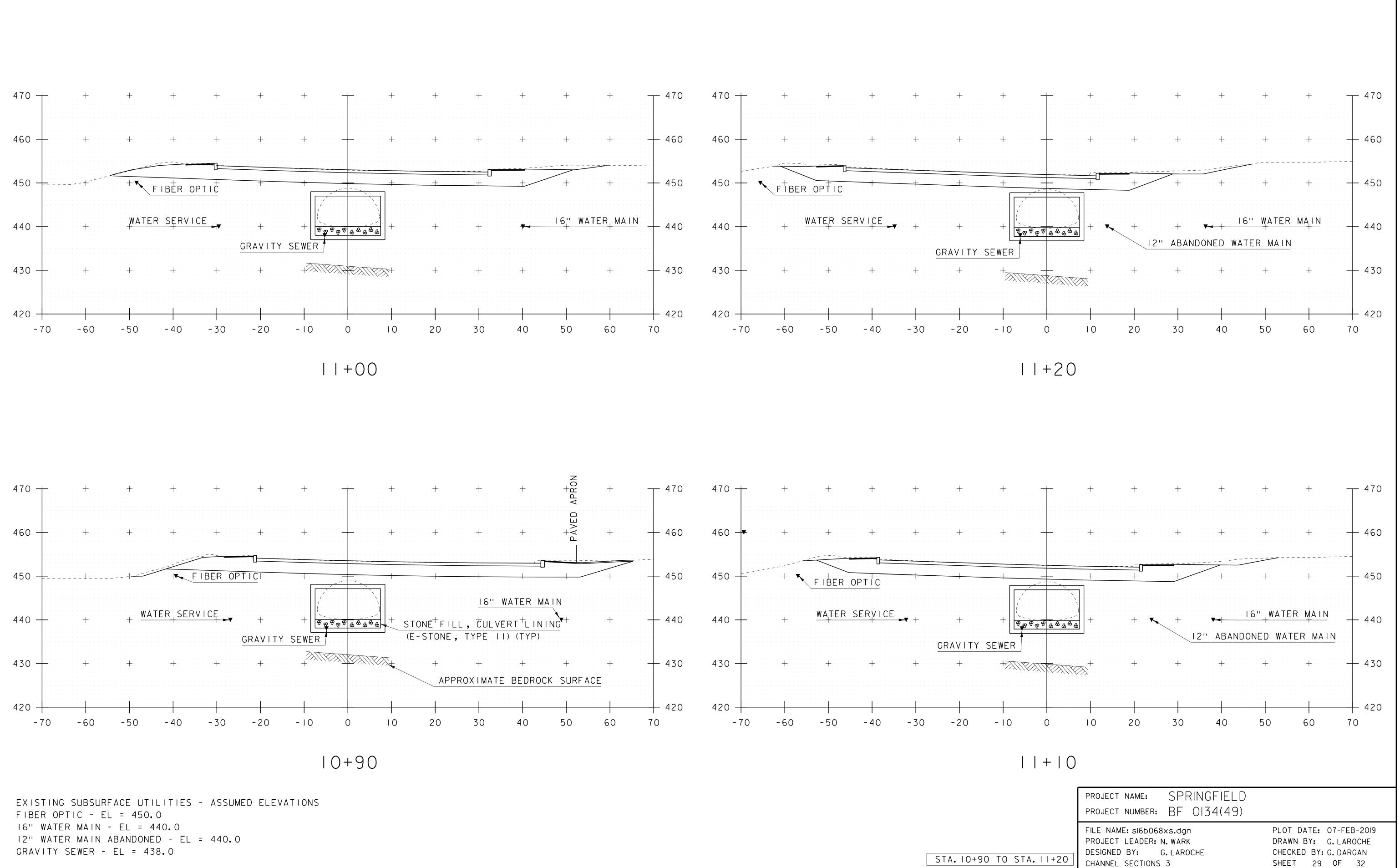


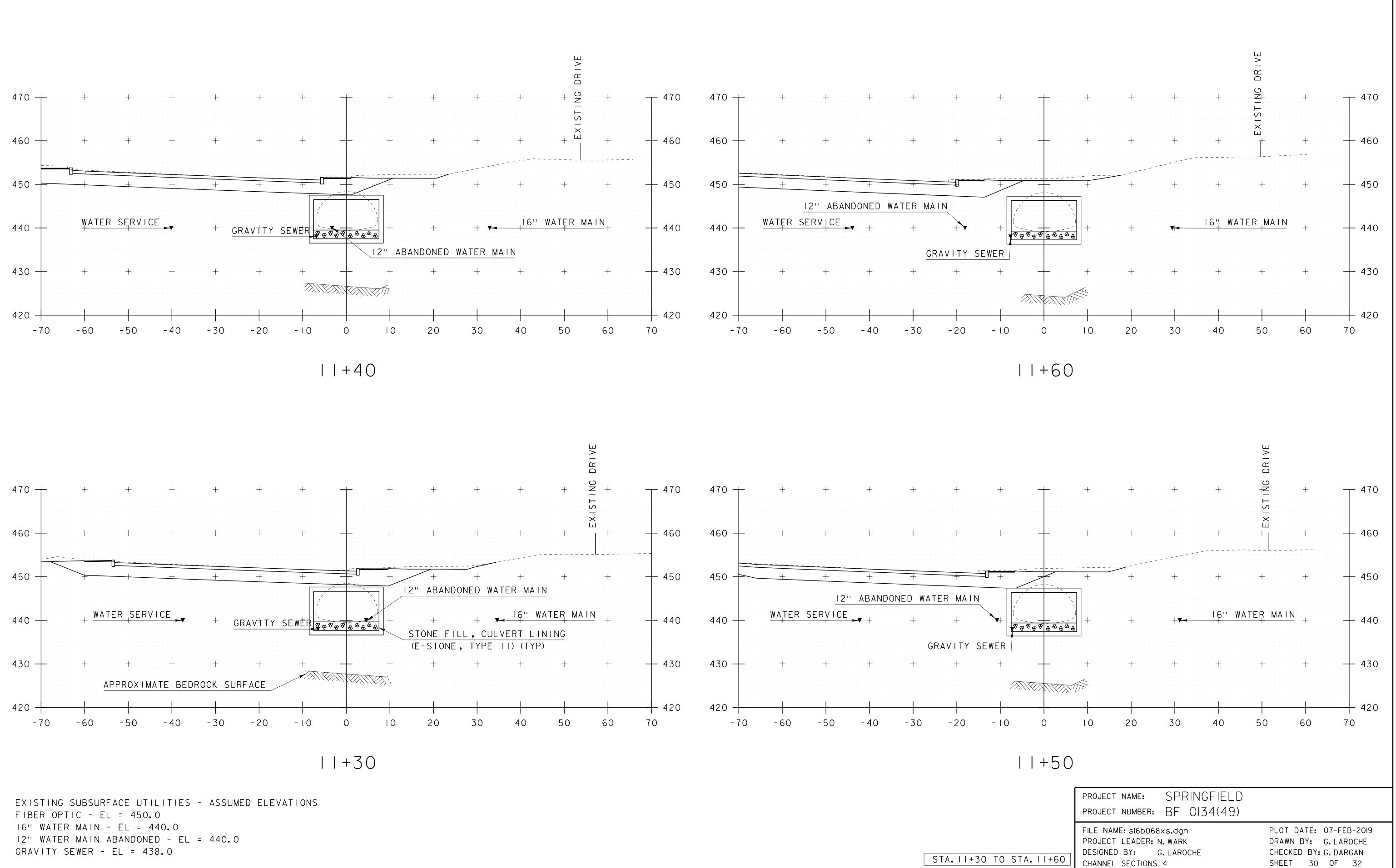
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0	10	20	30	40	50	60	420 70
9+25	5						
9+2	PROJEC	T NAME: T NUMBER:		NGFIELD DI34(49)			

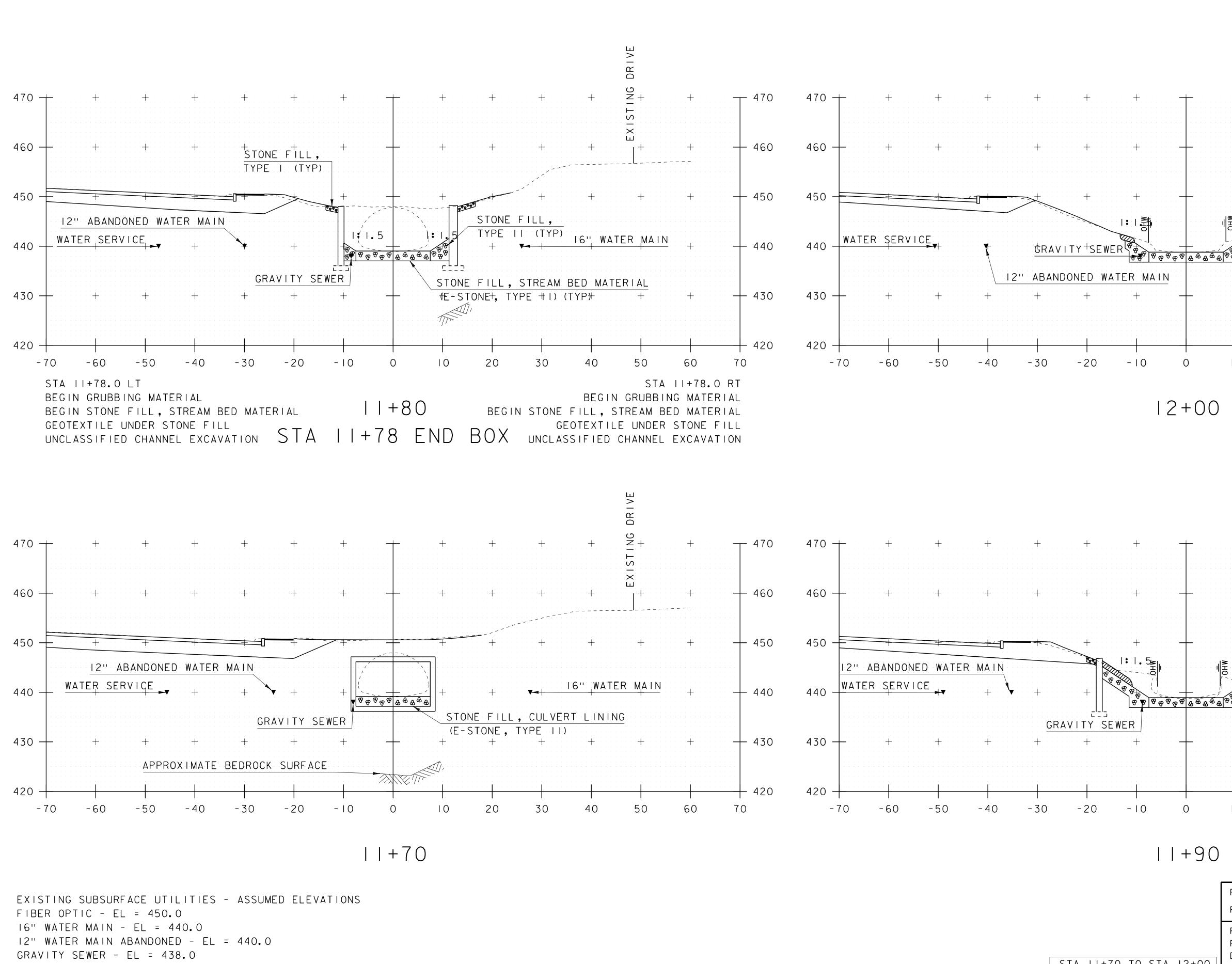








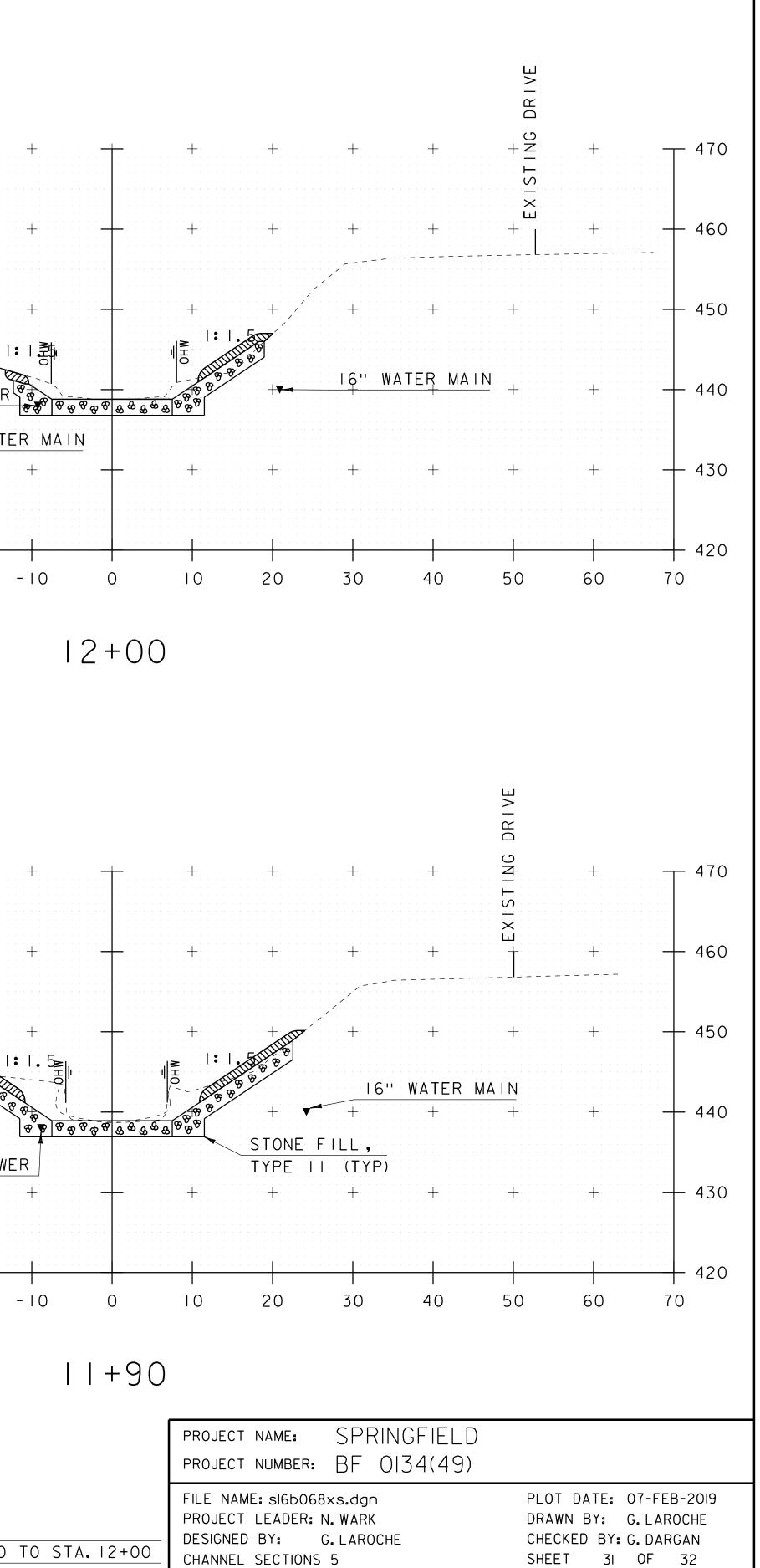


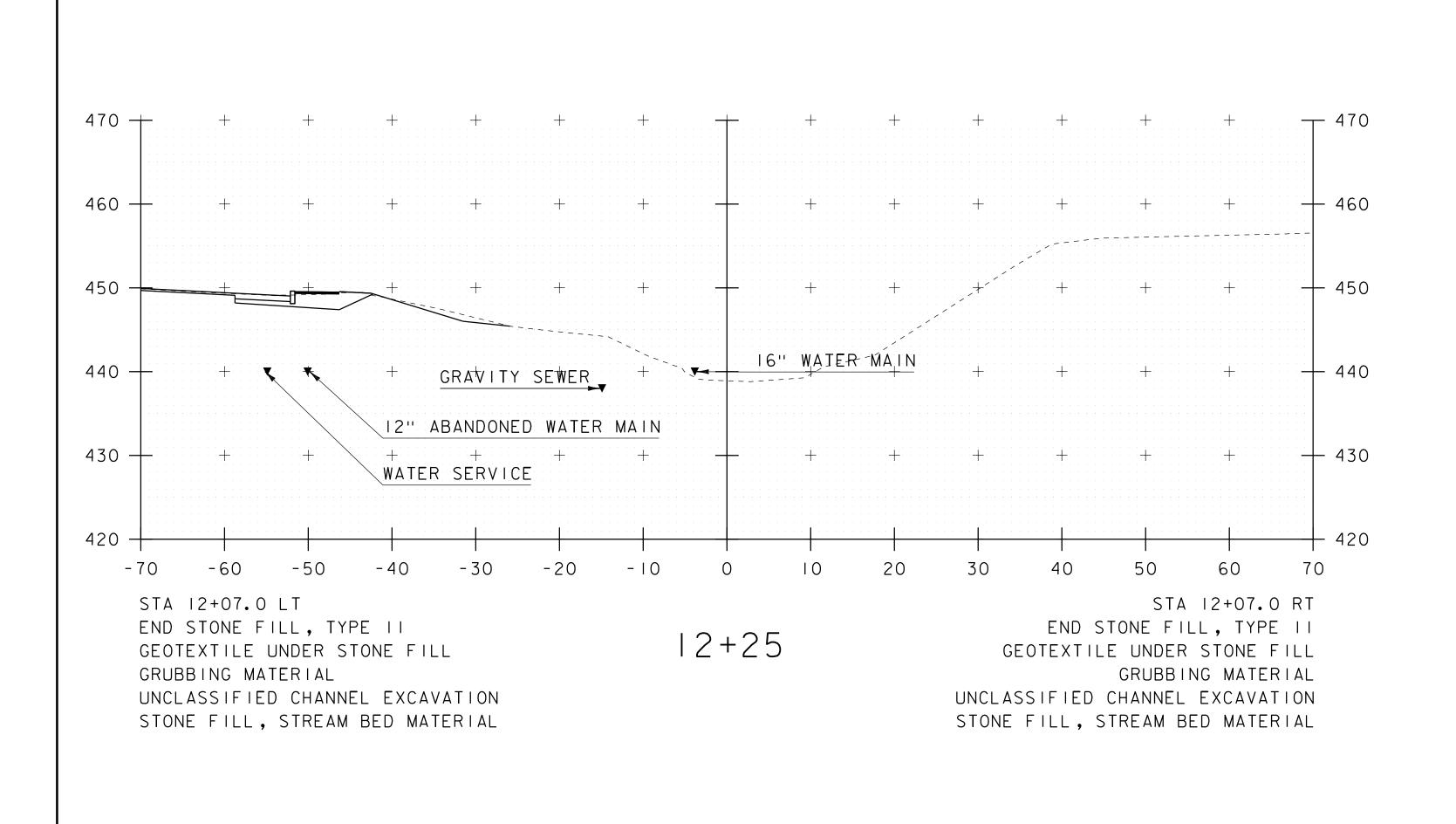


- 10

1:13

- 10









EXISTING SUBSURFACE UTILITIES - ASSUMED ELEVA FIBER OPTIC - EL = 450.0 16" WATER MAIN - EL = 440.0 12" WATER MAIN ABANDONED - EL = 440.0 GRAVITY SEWER - EL = 438.0

STA. 12+25 TO ST

/ATIONS	PROJECT NAME: SPRINGFIELD PROJECT NUMBER: BF 0134(49)	
STA. 12+25	FILE NAME: sI6b068xs.dgn PROJECT LEADER: N. WARK DESIGNED BY: G. LAROCHE CHANNEL SECTIONS 6	PLOT DATE: 07-FEB-2019 DRAWN BY: G.LAROCHE CHECKED BY:G.DARGAN SHEET 32 OF 32