

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



GORHAM CUMBERLAND COUNTY

ROUTE 25

BRANDY BROOK BRIDGE

FEDERAL PROJECT NO. 1882100

PROJECT LENGTH : 0.10 MILES

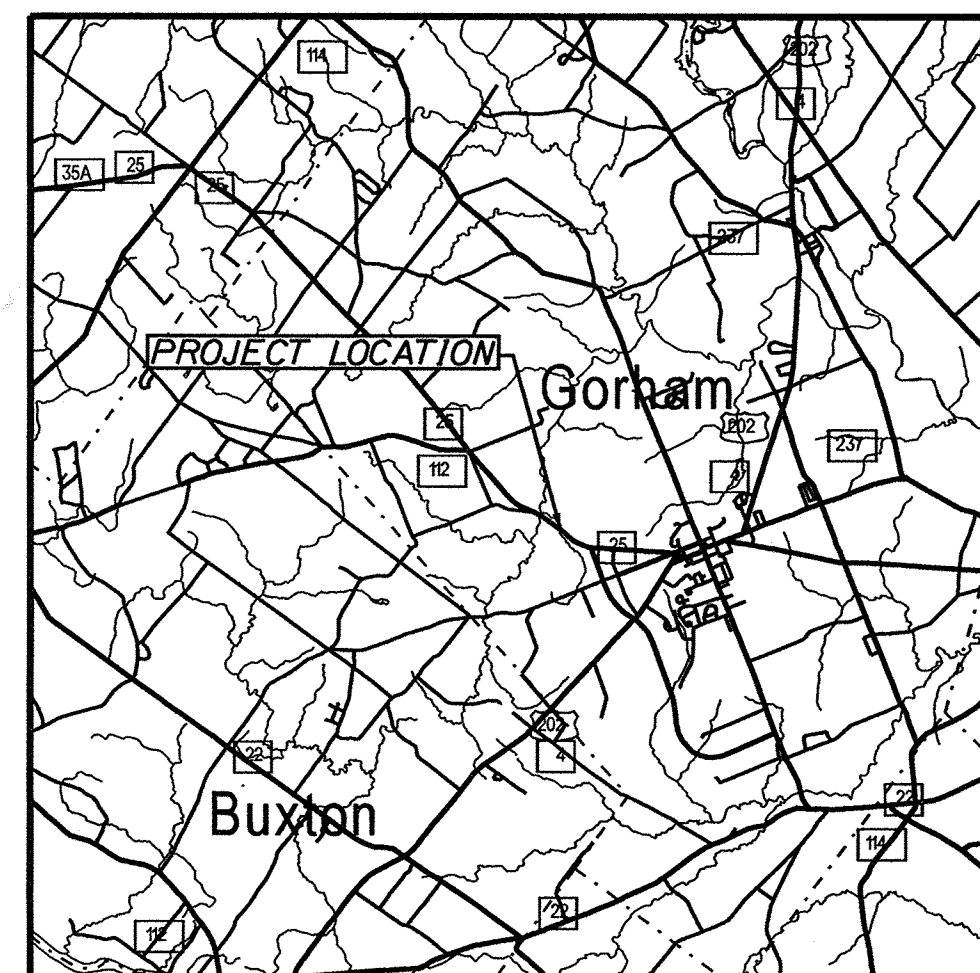
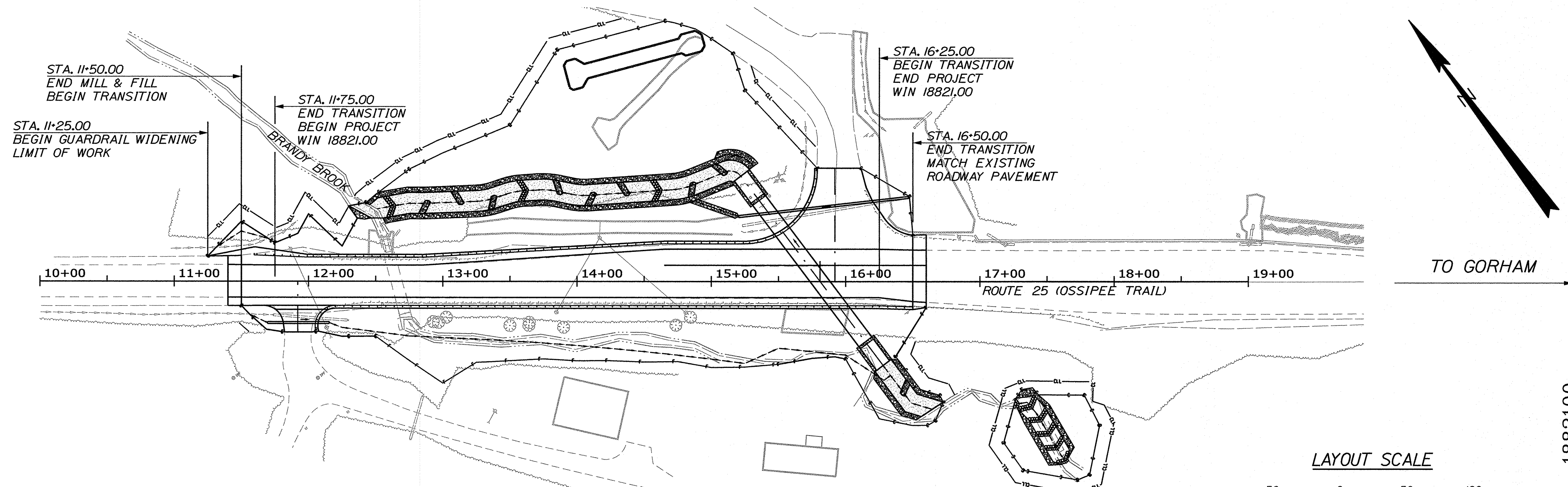
BRIDGE NO. 6592

PLAN LEGEND

Town, County, State	_____	Catch Basins	▣ Existing	▣ Proposed
Property Lines	-----	Manholes	○ Existing	● Proposed
R/W Lines-Existing	-----	Proposed Underdrain	-----	
R/W Lines-Proposed	-----	Proposed Ditch	-----	
Culvert-Existing	-----	Existing Ditch	-----	
Culvert Proposed	-----	Utility Poles	◇ Existing	◆ Proposed
Curbing	Existing Proposed	Fire Hydrants	⊙ Existing	⊙ Proposed
Type 1	-----	Existing Water Line	-----	
Type 3	-----	Existing San. Sewer	-----	
Type 5	-----	Existing San. Sewer Manhole	⊙	
Outline of Bodies of Water	-----	Guardrail-Existing	-----	
Exposed Bedrock	-----	Guardrail-Proposed	-----	
Buildings	-----	Guardrail-Cable, Other	-----	
Trees	Conifer Deciduous	Centerline-Existing	-----	
Tree Line	-----	Centerline-Proposed	-----	
Clearing Limit Line	-----	Travelway-Existing	-----	
Railroad	-----	Travelway-Proposed	-----	
Boring	HB-XXX-###	Probe	P-#. #X	
Pavement Core	PC-#	#, # = Depth	X = W (Weathered Rock)	
Test Pit	TP-XXX-###		R (Refusal)	
			NR (No Refusal)	

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2-3
Estimated Quantities & General Notes	4
Construction Notes & Earthwork Summary	5
Special Details - Culvert	6
Special Details - Stream Plan & Profile	7-8
Special Details - Level Lip Spreader & Planting Buffer	9
Boring Location Plan & Interpretive Subsurface Profile	10-11
Plan and Profile	12
Cross Sections	13-22
Right of Way Map	23-24



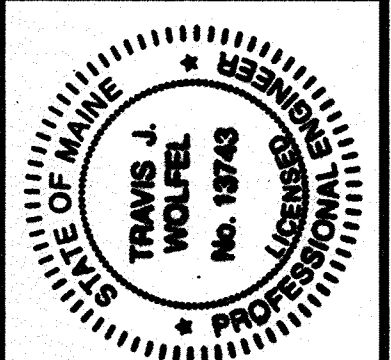
Scale in Miles
LOCATION MAP

TRAFFIC DATA

Current (2020) AADT	15750
Future (2040) AADT	17330
DHV - % of AADT	10%
Design Hour Volume	1733
% Heavy Trucks (AADT)	6%
Directional Distribution (DHV)	72%
Design Speed (mph)	50
Functional Class	Minor Arterial
Corridor Priority	2

PROJECT LOCATION:	LARGE CULVERT (#47422) LOCATED 0.41 OF A MILE NORTH OF STATE STREET
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		5/19/2020
CHIEF ENGINEER: <i>[Signature]</i>		5-19-2020



PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
	HIGHWAY	LARRY HAMILTON	TRAVIS WOLFEL	KLEINFELDER			
	SIGNATURE	13743					
	P.E. NUMBER	5/11/2020					
	DATE						

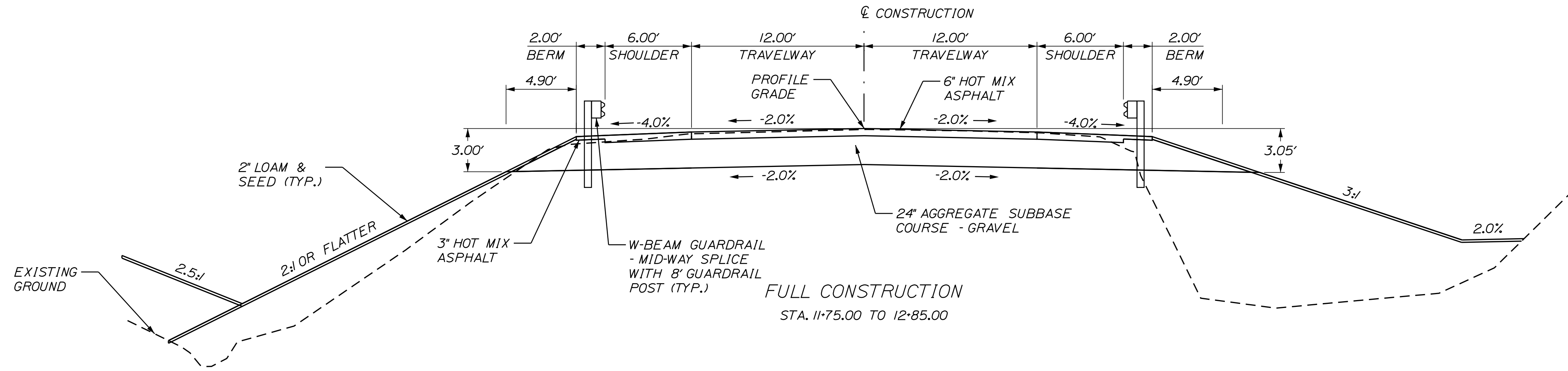
WIN 18821.00	1882100
GORHAM	ROUTE 25
TITLE SHEET	
SHEET NUMBER	
1	
OF 24	

Date: 5/11/2020

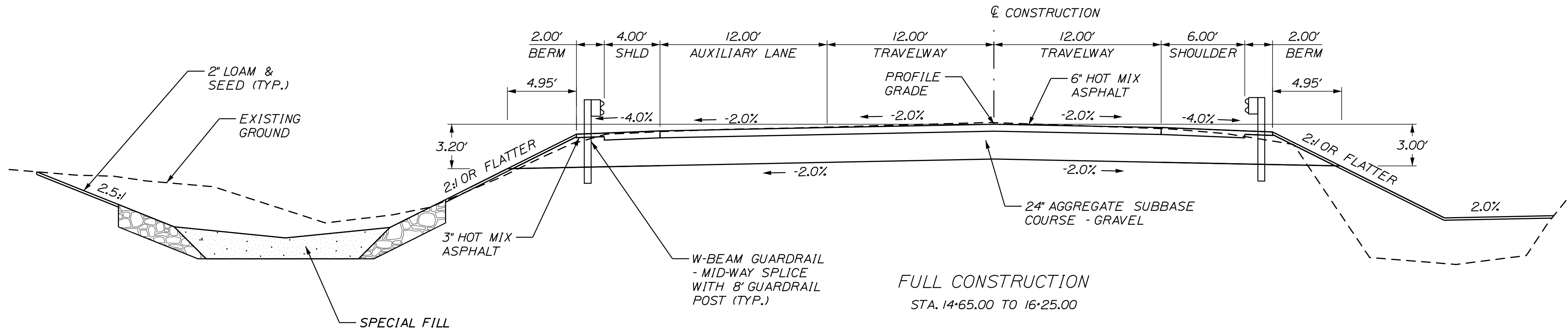
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Division: HIGHWAY

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AGGREGATE SUBBASE COURSE GRAVEL	AGGREGATE SUBBASE COURSE GRAVEL	AGGREGATE SUBBASE COURSE GRAVEL
GUARDRAIL SHOULDER	12' - 12' TRAVEL LANES	GUARDRAIL SHOULDER
76.6 CY/100 LF	177.8 CY/100 LF	86.2 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
11+75.00 TO 12+85.00	11+75.00 TO 12+85.00	11+75.00 TO 12+85.00



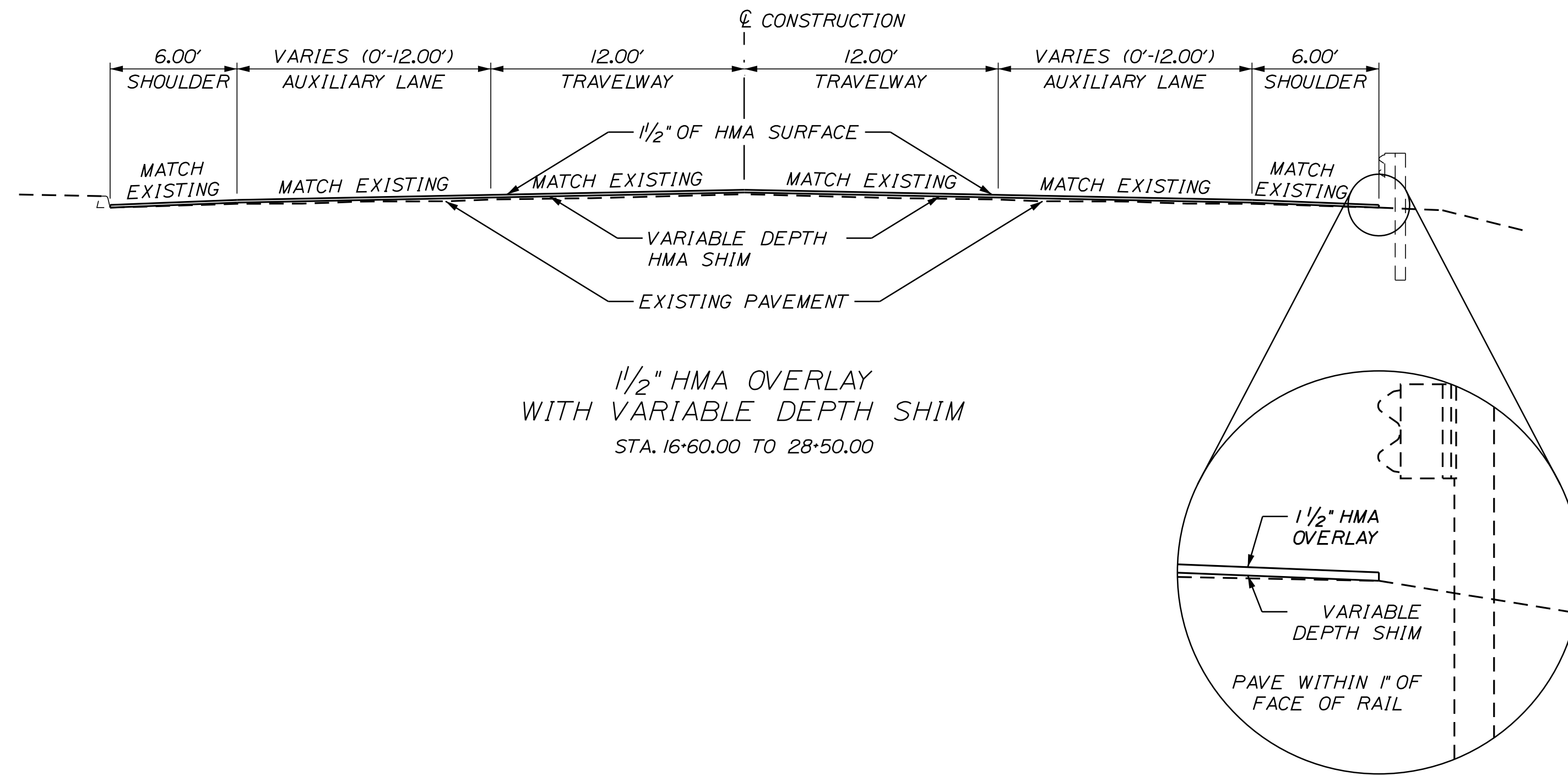
AGGREGATE SUBBASE COURSE GRAVEL	AGGREGATE SUBBASE COURSE GRAVEL	AGGREGATE SUBBASE COURSE GRAVEL
4' GUARDRAIL SHOULDER	12' - 12' - 12' LANES	6' GUARDRAIL SHOULDER
63.5 CY/100 LF	266.7 CY/100 LF	76.6 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
14+65.00 TO 16+25.00	14+65.00 TO 16+25.00	14+65.00 TO 16+25.00

ROUTE 25 CROSS SLOPES (e)						
LEFT %			STATION	RIGHT %		
SHOULDER	AUXILIARY LANE	TRAVELWAY		TRAVELWAY	SHOULDER	
MATCH EXISTING	-	MATCH EXISTING	11+50	MATCH EXISTING	MATCH EXISTING	
-4.0	-	-2.0	11+75	-2.0	-4.0	
			TO			
-4.0	-	-2.0	14+50	-2.0	-4.0	
-4.0	-2.0	-2.0	14+75	-2.0	-4.0	
			TO			
-4.0	-2.0	-2.0	16+00	-2.0	-4.0	
-4.0	-2.0	-2.0	16+25	-2.7	-5.0	
MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	16+50	MATCH EXISTING	MATCH EXISTING	

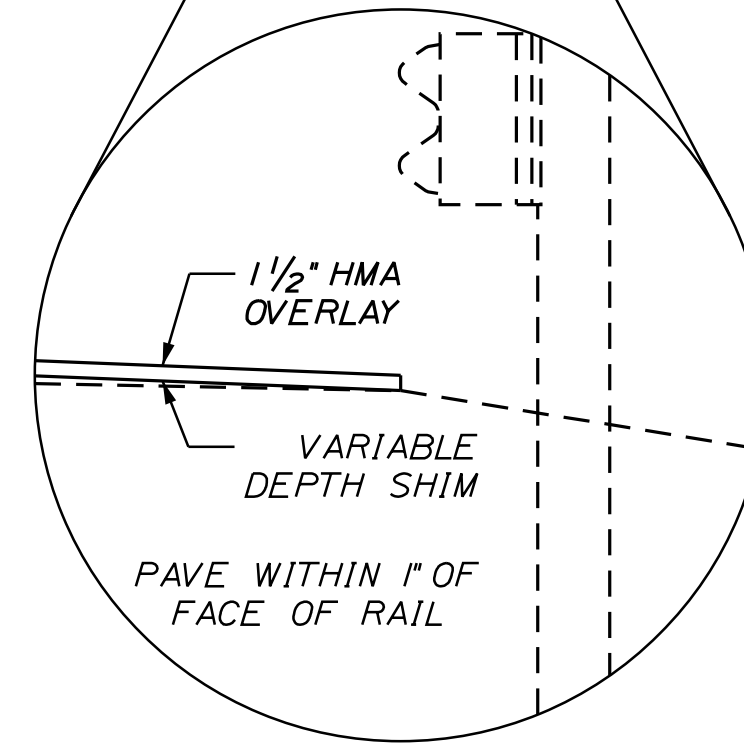
NOTES:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROSS SLOPES FOR BOTH NORMAL AND SUPERELEVATION SECTIONS SHALL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
4. THE GRAVEL QUANTITY CALCULATION IS BASED ON 2" LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE GENERAL NOTES.
5. THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.
6. THE STATIONING SHOWN UNDER EACH TYPICAL SECTION IS APPROXIMATE.

PROJ. MANAGER	L. HAMILTON	DATE	5/20/20
DESIGN DETAILED	T. WOLFEL	BY	T. WOLFEL
CHECKED/REVIEWED	K. WOOD		M. STEELE
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



1/2" HMA OVERLAY
WITH VARIABLE DEPTH SHIM
STA. 16+60.00 TO 28+50.00



NOTES:

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DATE: 5/20/2020
BY: T. WOLFEL, M. STEELE
SIGNATURE: _____

DATE: 5/20/2020

BY: T. WOLFEL, M. STEELE

PROJ. MANAGER: L. HAMILTON
DESIGN-DETAILED: T. WOLFEL
CHECKED-REVIEWED: K. WOOD
DESIGN-DETAILED: _____
REVISIONS 1: _____
REVISIONS 2: _____
REVISIONS 3: _____
REVISIONS 4: _____
FIELD CHANGES: _____

GORHAM - BRANDY BROOK
ROUTE 25

TYPICAL SECTIONS

SHEET NUMBER

3

OF 24

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.11	CLEARING	2	AC
201.23	REMOVING SINGLE TREE TOP ONLY	7	EA
201.24	REMOVING STUMP	7	EA
202.202	REMOVING PAVEMENT SURFACE	110	SY
202.203	PAVEMENT BUTT JOINTS	400	SY
203.20	COMMON EXCAVATION	12100	CY
203.25	GRANULAR BORROW	290	CY
203.33	SPECIAL FILL	490	CY
203.55	CULVERT BEDDING STONE	240	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	2000	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	390	T
403.208	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	770	T
403.209	HOT MIX ASPHALT 9.5 MM (INCIDENTALS)	56	T
403.211	HOT MIX ASPHALT (SHIM)	280	T
403.213	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT BASE	220	T
409.15	BITUMINOUS TACK COAT - APPLIED	380	G
502.565	CONCRETE FILL	120	CY
508.13	SHEET WATERPROOFING MEMBRANE	1	LS
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
534.7101	PRECAST CONCRETE BOX CULVERT - STATE SUPPLIED	1	LS
603.16	15" CULVERT PIPE OPTION I	46	LF
603.199	24" CULVERT PIPE OPTION III	104	LF
606.1301	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	870	LF
606.1303	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)	13	LF
606.1304	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)	88	LF
606.1305	3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (3" HEIGHT)	2	EA
606.2591	ANCHORAGE ASSEMBLY FOR DRIVEWAY RADIUS	1	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	140	CY
610.212	STREAMBED ROCK FEATURES	130	CY
610.213	VOID FILLED RIPRAP	190	CY
615.07	LOAM	310	CY
615.086	COMPOST BLANKET	260	CY
618.14	SEEDING METHOD NUMBER 2	50	UN
618.143	SPECIAL SEED MIX: BRANDY BROOK STREAM BUFFER MIX	10	UN
619.12	MULCH	50	UN
620.54	STABILIZATION /REINFORCEMENT GEOTEXTILE	890	SY
620.58	EROSION CONTROL GEOTEXTILE	990	SY
621.021	EVERGREEN TREES 2'-3' GROUP C	12	EA
621.026	EVERGREEN TREES 3'-4' GROUP B B&B	6	EA
621.037	EVERGREEN TREES 5'-6' GROUP A B&B	3	EA
621.038	EVERGREEN TREES 5'-6' GROUP B B&B	3	EA
621.101	PLUGS/LINER PLANTS 2 1/4" TYP. CONT.	330	EA
621.110	SMALL DECIDUOUS TREE 3'-4' GROUP A	24	EA
621.12	SMALL DECIDUOUS TREE 5'-6' GROUP A	96	EA
621.121	SMALL DECIDUOUS TREE 5'-6' GROUP B	36	EA
621.54	DECIDUOUS SHRUBS 18"-24" GROUP A	84	EA
621.541	DECIDUOUS SHRUBS 18"-24" GROUP B	24	EA
621.546	DECIDUOUS SHRUBS 2'-3' GROUP A	36	EA
621.547	DECIDUOUS SHRUBS 2'-3' GROUP B	60	EA
621.552	DECIDUOUS SHRUBS 3'-4' GROUP A	48	EA
621.553	DECIDUOUS SHRUBS 3'-4' GROUP B	60	EA
621.554	DECIDUOUS SHRUBS 3'-4' GROUP C	36	EA
627.733	4 INCH WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	3200	LF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE WHITE OR YELLOW	3200	LF
629.05	HAND LABOR - STRAIGHT TIME	50	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	30	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	30	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	BARRICADE TYPE III	4	EA
652.33	DRUM	50	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGN	99	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	100	CD
652.38	FLAGGER	250	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	4	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL NOTES

- CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
- GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.
- WHERE DEEMED NECESSARY BY THE RESIDENT, UNSUITABLE EXCESS MATERIAL SHALL BE REMOVED FROM THE EDGES OF SHOULDERS AND PLACED IN DESIGNATED AREAS OR DISPOSED OF. PAYMENT WILL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.
- ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.
- THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.
- ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
- REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.
- GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.
- EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.
- COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 3 INCHES HOT MIX ASPHALT AND 11 INCHES AGGREGATE SUBBASE COURSE - GRAVEL.
- GRAVEL ENTRANCES SHALL BE CONSTRUCTED WITH 14 INCHES AGGREGATE SUBBASE COURSE - GRAVEL OR 11 INCHES AGGREGATE SUBBASE COURSE - GRAVEL AND 3 INCHES UNTREATED AGGREGATE SURFACE COURSE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
- A 3 FOOT PAVED LIP SHALL BE PLACED AT ALL UNPAVED ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
- CROSS SLOPES FOR NORMAL AND SUPERELEVATED SECTIONS WILL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE RESIDENT.
- THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.
- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.
- ALL EXISTING GUARDRAIL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
- TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING WILL BE CONSIDERED INCIDENTAL TO ITEM 606.

- LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES IN ALL AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
- ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL EVALUATION REPORT CULVERT REPLACEMENT AT BRANDY BROOK", SOILS REPORT 2019-47C, APRIL 20, 2020 CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).
- GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSION DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.
- AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
- ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
- NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
- UNDETERMINED LOCATIONS SHALL BE DETERMINED BY THE RESIDENT.
- FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR AS APPROVED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		1882100		WIN		18821.00		HIGHWAY PLANS	
GORHAM		ROUTE 25		ESTIMATED QUANTITIES		& GENERAL NOTES		SHEET NUMBER		4	
PROJ. MANAGER		L. HAMILTON		BY		T. WOLFE		M. STEELE		DATE	
DESIGN-DETAILED		T. WOLFE		CHECKED-REVIEWED		K. WOOD		SIGNATURE		P.E. NUMBER	
DESIGNS DET ALOD		DESIGNS DET ALOD		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	

DRIVES AND ENTRANCES
 LOCATION DESCRIPTION

11-92 RT	GRAVEL - RESIDENTIAL
15-92 LT	PAVED - COMMERCIAL

ITEM 201.11 - CLEARING
 STATION TO STATION

11-25 TO 15-79 LT
11-48 TO 11-67 RT
12-12 TO 16-80 RT
17-07 TO 18-00 RT

ITEM 201.23 - REMOVING SINGLE TREE TOP ONLY

ITEM 201.24 - REMOVING STUMP
 STATION OFFSET DESCRIPTION

13-02.65	26.64 RT	15" OAK
13-50.03	32.75 RT	15" OAK
13-64.13	32.64 RT	18" OAK
13-64.55	30.46 RT	12" OAK
13-89.99	34.04 RT	15" OAK
14-84.53	26.63 RT	18" OAK
15-50.59	76.25 LT	2" PINE

ITEM 606.1301 - 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STATION TO STATION QUANTITY

11-98.28 TO 15-24.00 LT	325.00 LF
12-20.00 TO 16-50.00 RT	430.00 LF

ITEM 606.1303 - 3" W-BEAM GUARDRAIL - MID-WAY SPLICE - (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)
 STATION TO STATION QUANTITY

12-09.80 TO 12-20.00 RT	12.5 LF
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ITEM 606.1304 - 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)
 STATION TO STATION QUANTITY

15-24.00 TO 15-79.00 LT	87.50 LF
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ITEM 606.1305 - 3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (3" HEIGHT)
 STATION QUANTITY

11-59.75 LT	1 EA.
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ITEM 606.2591 - ANCHORAGE ASSEMBLY FOR DRIVEWAY RADIUS
 STATION QUANTITY

12-05.00 RT	1 EA.
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ITEM 606.265 - TERMINAL END - SINGLE RAIL - GALVANIZED STEEL
 STATION QUANTITY

15-79.00 LT	1 EA.
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ITEM 606.353 - REFLECTORIZED FLEXIBLE GUARDRAIL MARKER
 STATION QUANTITY

11-48.50 LT	2 EA.
12-05.00 RT	2 EA.
15-78.99 LT	2 EA.

ITEM 610.08 - PLAIN RIPRAP
 STATION TO STATION DESCRIPTION QUANTITY

12-30 TO 12-47 LT	SLOPE PROTECTION	3.24 CY
14-82 TO 15-20 LT	RIPRAP DOWNSPOUT	7.95 CY
15-02 TO 15-35 LT	SLOPE PROTECTION	8.19 CY
15-22 LT	CULVERT OUTLET	20.24 CY
16-28 RT	CULVERT INLET	19.43 CY
13-90 TO 14-95 LT	LEVEL LIP SPREADER	79.20 CY

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM MODEL OR PLANS)	12040
GRUBBING IN FILL	32
UNDERCUT	0
MUCK EXCAVATION	0

TOTAL COMMON EXCAVATION	12072
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FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM MODEL OR PLANS)	2694
GRUBBING IN FILL	32
UNDERCUT	0
MUCK EXCAVATION	0

TOTAL FILL	2726
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ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION (FROM CROSS SECTIONS)	0
ROCK EXCAVATION (BOULDERS)	0

TOTAL ROCK EXCAVATION	0
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AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

ALL DEDUCTIONS:	
GRUBBING IN CUT	788
GRUBBING IN FILL	32
UNDERCUT	0
MUCK EXCAVATION	0
PAVEMENT SALVAGE (CUT & FILL)	399

TOTAL DEDUCTIONS	1219
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TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	10853
RIPRAP EXCAVATION	290

TOTAL AVAILABLE NON-ROCK EXCAVATION	11143
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COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

GRUBBING IN CUT	788
GRUBBING IN FILL	32
UNDERCUT	0
MUCK EXCAVATION	0
TOTAL WASTE MATERIAL	820

TOTAL WASTE MATERIAL TO BE UTILIZED*	
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TOTAL WASTE MATERIAL TO BE WASTED	820
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COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK	0
GRANULAR BORROW TO REPLACE PEAT	0
GRANULAR BORROW FOR EMBANKMENT CONSTRUCTION NEAR BOX CULVERTS	290
GRANULAR BORROW TO MAINTAIN TRAFFIC	0
GRANULAR BORROW FOR UNDERCUTTING	0
GRANULAR BORROW FOR CULVERT BEDDING	0

TOTAL GRANULAR BORROW	290
-----------------------	-----

COMPUTATION FOR SURPLUS MATERIAL OR COMMON BORROW FOR ESTIMATE

TOTAL AVAILABLE NON-ROCK EXCAVATION	11143	x 0.90	=	10028.7
TOTAL AVAILABLE ROCK EXCAVATION	0	x 1.30	=	0
TOTAL AVAILABLE STRUCTURAL ROCK EXCAVATION		x 1.30	=	0
TOTAL WASTE MATERIAL TO BE UTILIZED	0	x 0.90	=	0

TOTAL AVAILABLE EXCAVATION	10029
----------------------------	-------

BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION	0
---	---

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION (-) TOTAL FILL, (+)	8123
TOTAL WASTE MATERIAL TO BE WASTED	8123

SURPLUS MATERIAL	8123 CY
-------------------------	----------------

GRANULAR BORROW TO MAINTAIN TRAFFIC	
BORROW NEEDED (-) REQUIRED GRANULAR BORROW WITHIN FILL	0

COMMON BORROW	0 CY
----------------------	-------------

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
1882100
 WIN
 18821.00
 HIGHWAY PLANS

DATE	SIGNATURE	P.E. NUMBER	DATE
5/20/20			
5/20/20			

PROJ. MANAGER	BY	DATE
L. HAMILTON	T. WOLFE M. STEELE	5/20/20
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

**GORHAM
 ROUTE 25
 CONSTRUCTION NOTES &
 EARTHWORK SUMMARY**

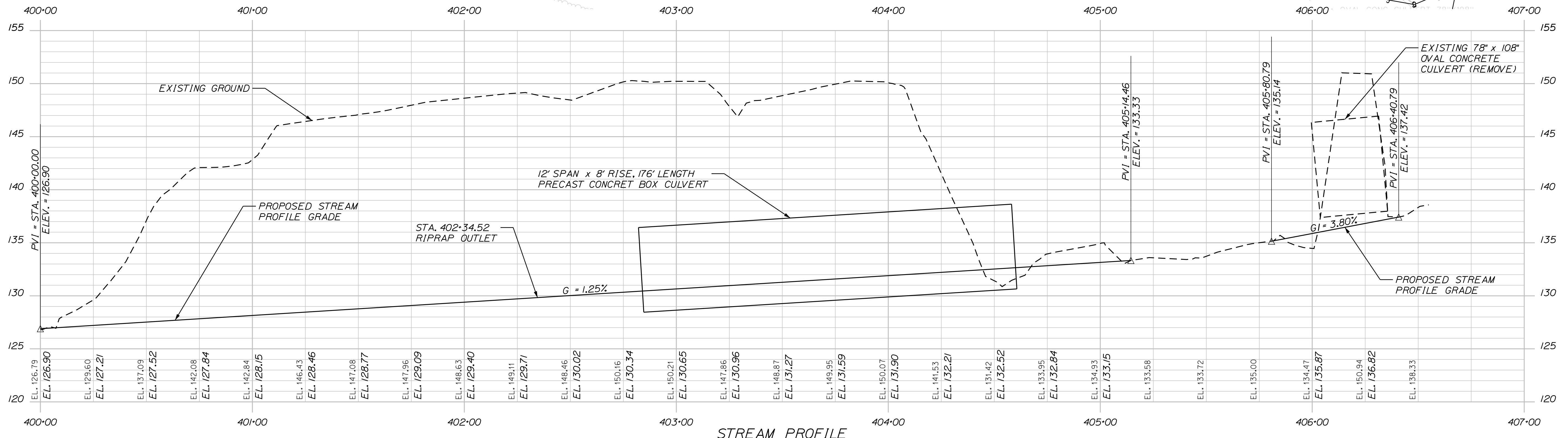
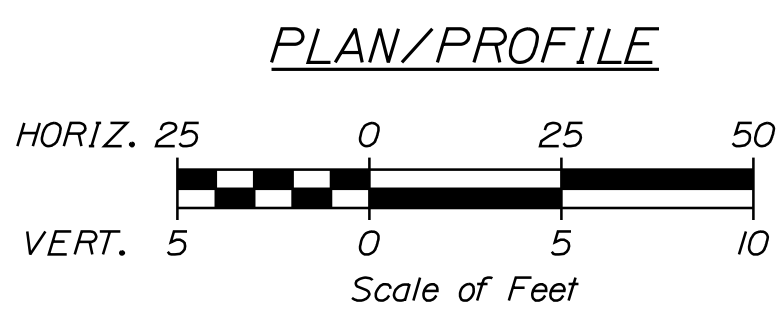
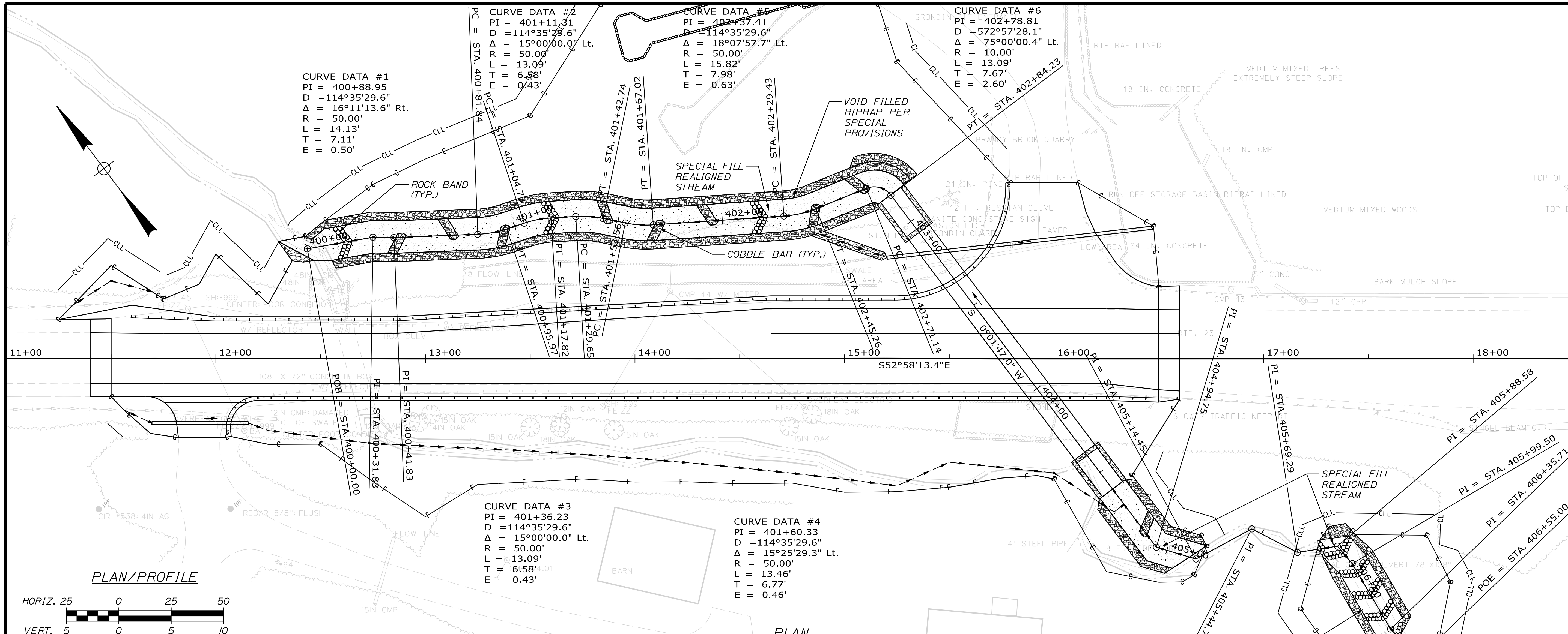
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5
 OF 24

Date: 5/20/2020

Username:

Division: HIGHWAY

Filename: ...007_SpecialDetails_Streambed.dgn



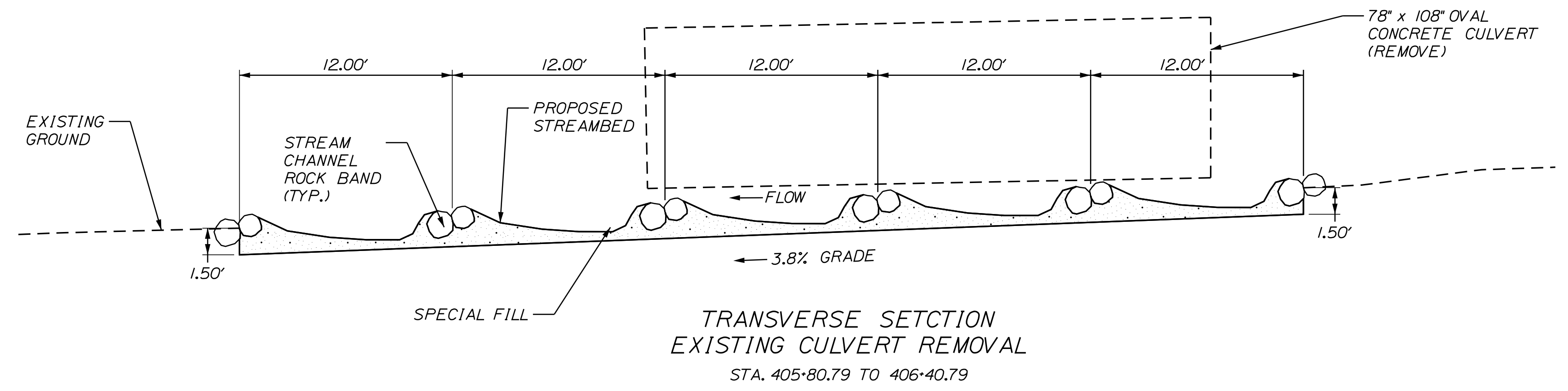
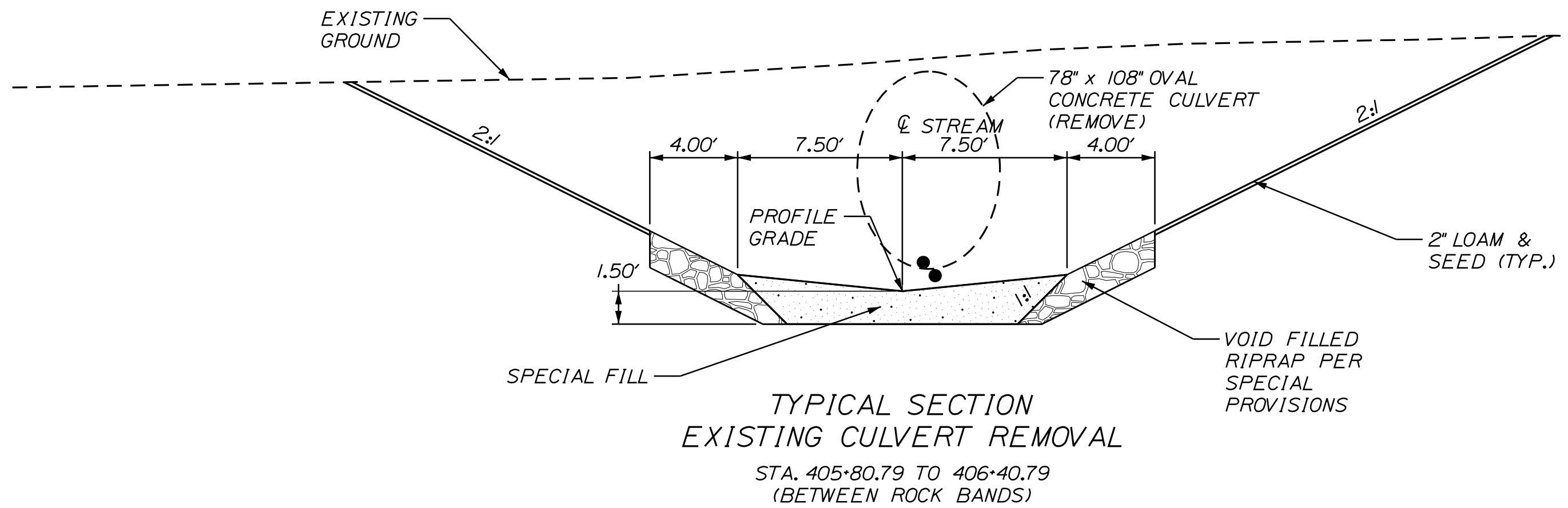
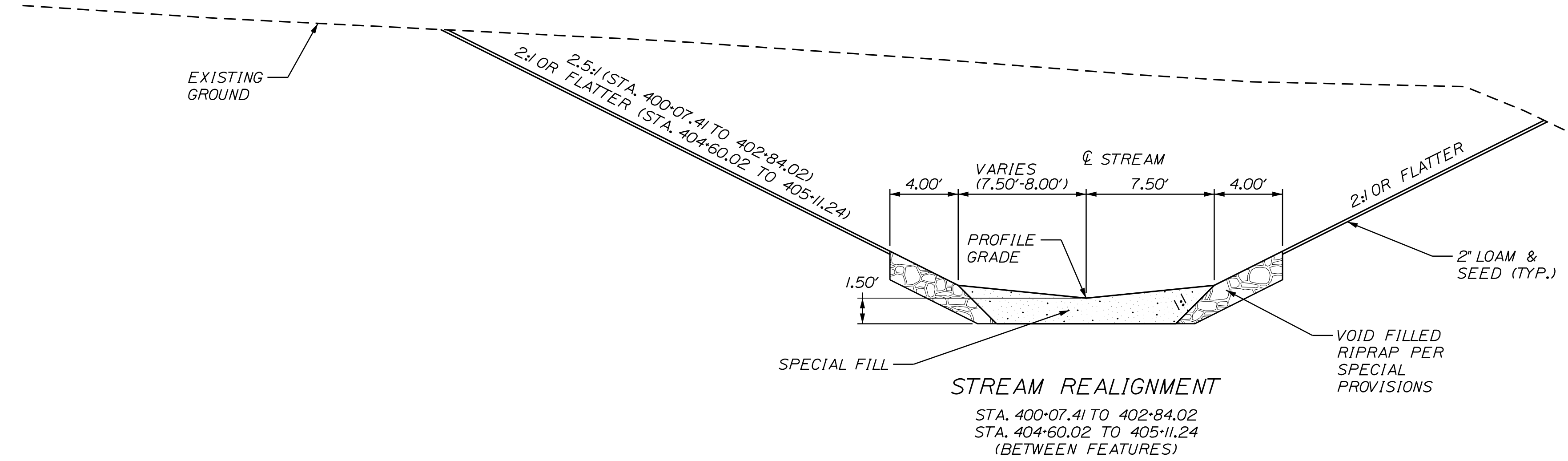
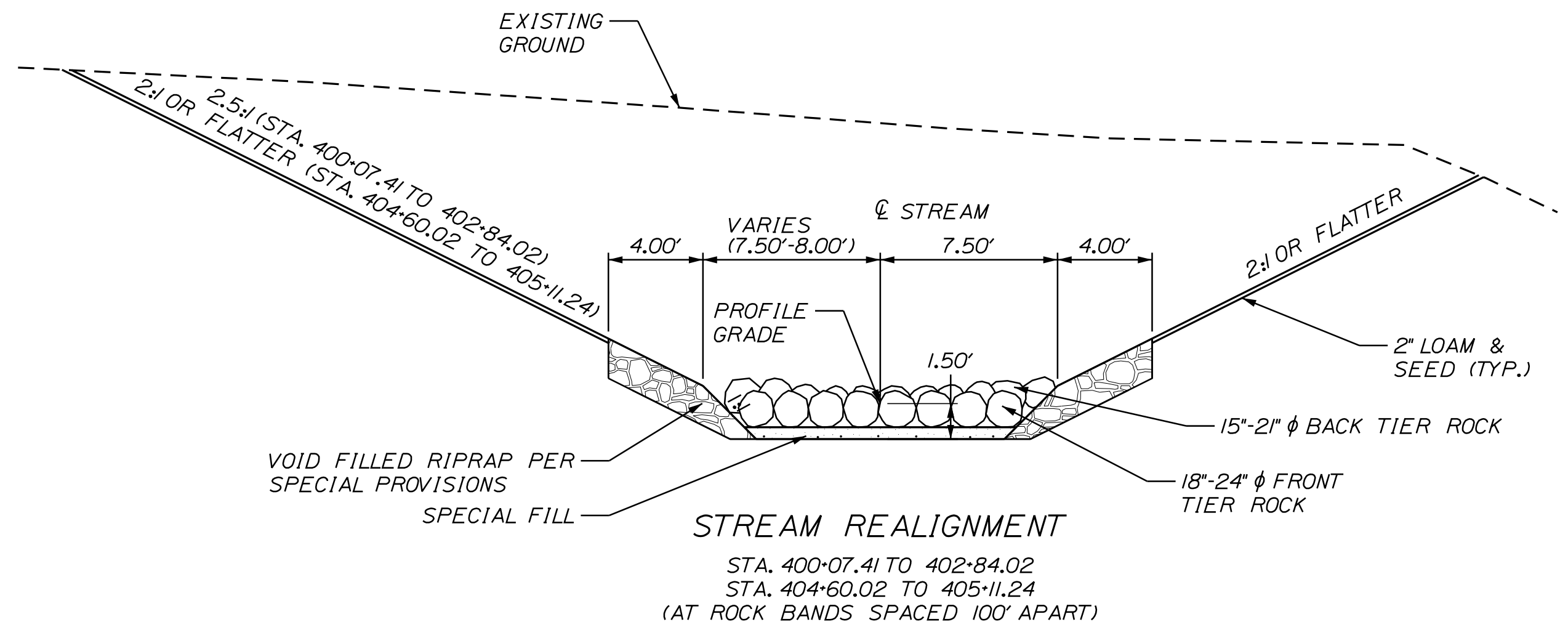
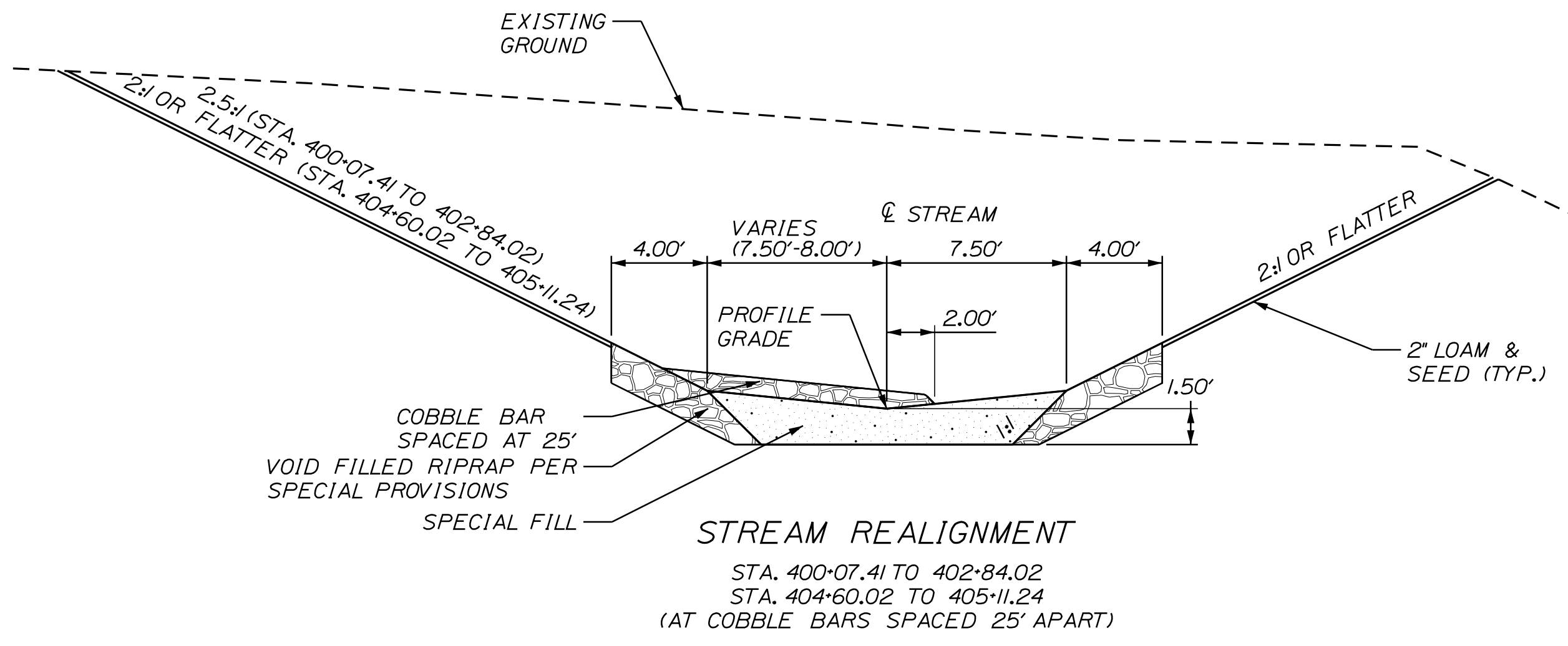
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		1882100	
		WIN 18821.00	
		HIGHWAY PLANS	
PROJ. MANAGER	BY	DATE	SIGNATURE
L. HAMILTON	T. WOLFEL	5/20/20	
DESIGN-DETAILED	T. WOLFEL	5/20/20	
CHECKED-REVIEWED	K. WOOD	5/20/20	
DESIGNS DET AILED			
DESIGNS DET AILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
GORHAM - BRANDY BROOK ROUTE 25		SPECIAL DETAILS - STREAM PLAN & PROFILE	
SHEET NUMBER		7	
		OF 24	

Date: 5/20/2020

Username:

Division: HIGHWAY

Filename: ... \008_SpecialDetails_Streambed.dgn



NOTES:

1. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF EXISTING CULVERT TO ALLOW FOR THE REMOVAL OF THE CULVERT AND CONSTRUCTION OF THE STREAM IN THE DRY.

CONTROL POINTS FOR STREAMBED ALIGNMENT					
POINT	℄ STATION	℄ OFFSET	X-COORD	Y-COORD	
P0B	400-00.00	12-43.65	52.49' LT	958369.701	309534.427
PI	400-31.83	12-75.00	58.01' LT	958398.050	309519.954
PI	400-41.83	12-85.00	57.86' LT	958405.943	309513.812
PC	400-81.84	13-24.98	59.44' LT	958438.810	309490.990
PI	400-88.95	-	-	958444.651	309486.935
PT	400-95.97	13-38.83	61.96' LT	958451.390	309484.669
PC	401-04.73	13-47.14	64.74' LT	958459.691	309481.877
PI	401-11.31	-	-	958465.931	309479.779
PT	401-17.82	13-59.96	67.21' LT	958471.414	309476.137
PC	401-229.65	13-71.77	67.92' LT	958481.273	309469.590
PI	401-36.23	-	-	958486.757	309465.949
PT	401-42.74	13-84.79	67.00' LT	958491.111	309461.012
PC	401-53.56	13-95.39	64.83' LT	958498.265	309452.901
PI	401-60.33	-	-	958502.744	309447.823
PT	401-67.02	14-08.78	63.93' LT	958508.413	309444.119
PC	402-29.43	14-71.05	68.14' LT	958560.662	309409.977
PI	402-37.41	-	-	958567.341	309405.613
PT	402-45-26	14-86.41	71.67' LT	958575.047	309403.544
PC	402-71.14	15-10.41	81.37' LT	958600.046	309396.831
PI	402-78.82	-	-	958607.456	309394.841
PT	402-84.23	15-22.14	78.11' LT	958907.452	309387.168
PI	404-94.75	16-48.83	90.02' RT	958607.343	309176.643
PI	405-14.45	16-67.71	95.67' RT	958619.005	309160.766
PI	405-44.77	16-94.39	81.29' RT	958648.974	309156.179
PI	405-69.29	17-16.17	92.54' RT	958659.581	309134.079
PI	405-88.58	17-35.23	89.54' RT	958676.603	309124.998
PI	405-99.50	17-42.28	97.87' RT	958677.214	309114.099
PI	406-35.71	17-60.63	129.09' RT	958973.057	309078.125
POE	406-55.00	17-74.57	143.54' RT	958675.488	309058.191

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 1882100
 WIN
 18821.00
 HIGHWAY PLANS

PROJ. MANAGER: L. HAMILTON
 DESIGN-DETAILED: T. WOLFEL
 CHECKED-REVIEWED: K. WOOD
 DESIGNS DET AILED: M. STEELE
 REVISIONS 1: _____
 REVISIONS 2: _____
 REVISIONS 3: _____
 REVISIONS 4: _____
 FIELD CHANGES: _____

DATE: 5/20/2020
 BY: T. WOLFEL
 M. STEELE
 SIGNATURE: _____
 P.E. NUMBER: _____
 DATE: _____

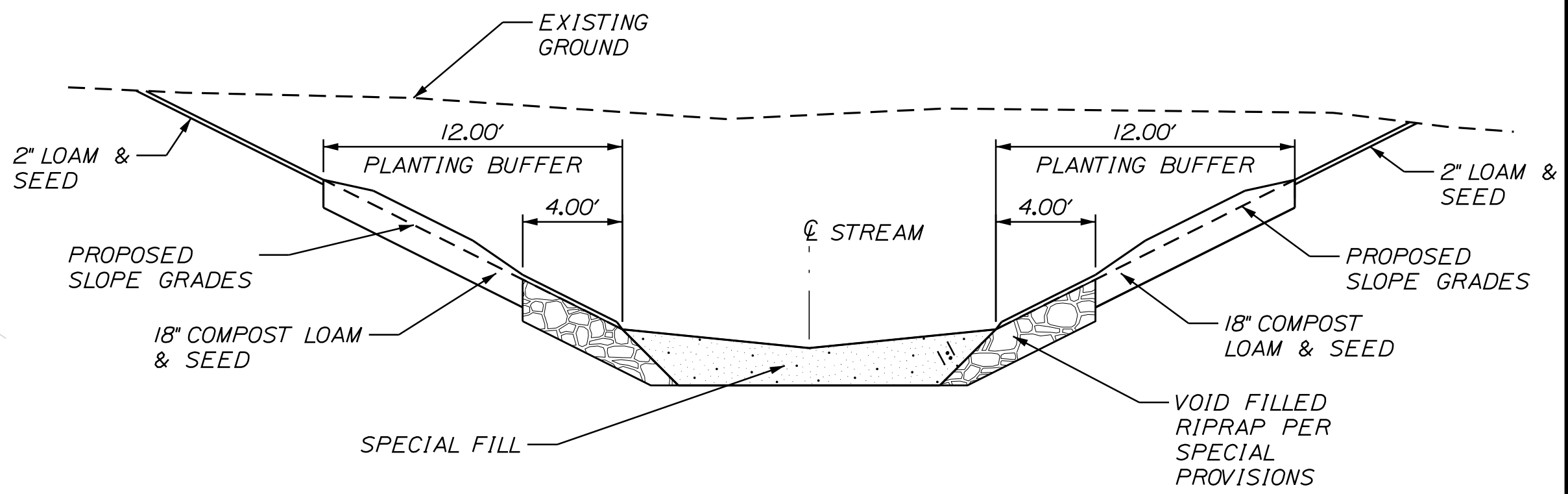
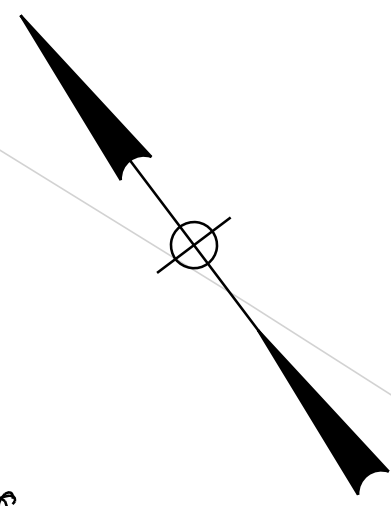
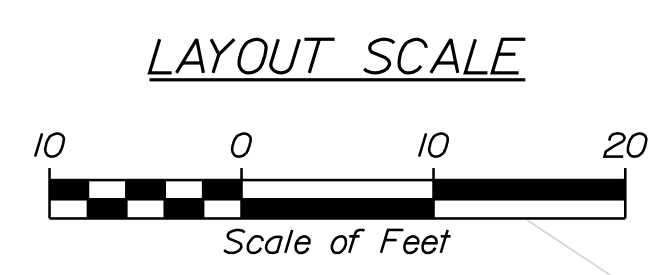
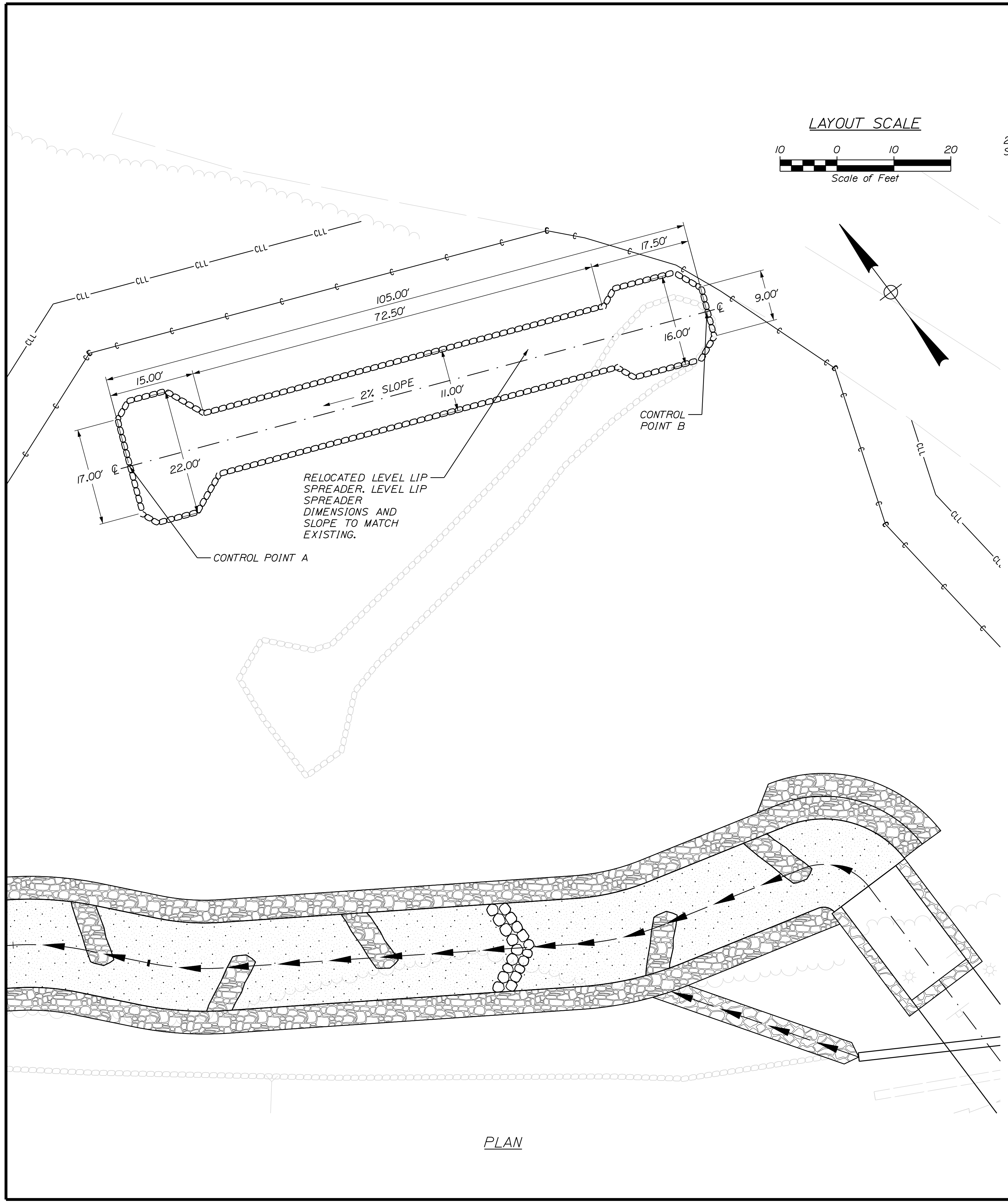
GORHAM - BRANDY BROOK
 ROUTE 25
 SPECIAL DETAILS -
 STREAM PLAN & PROFILE

SHEET NUMBER
 8
 OF 24

Date: 5/20/2020

Username:

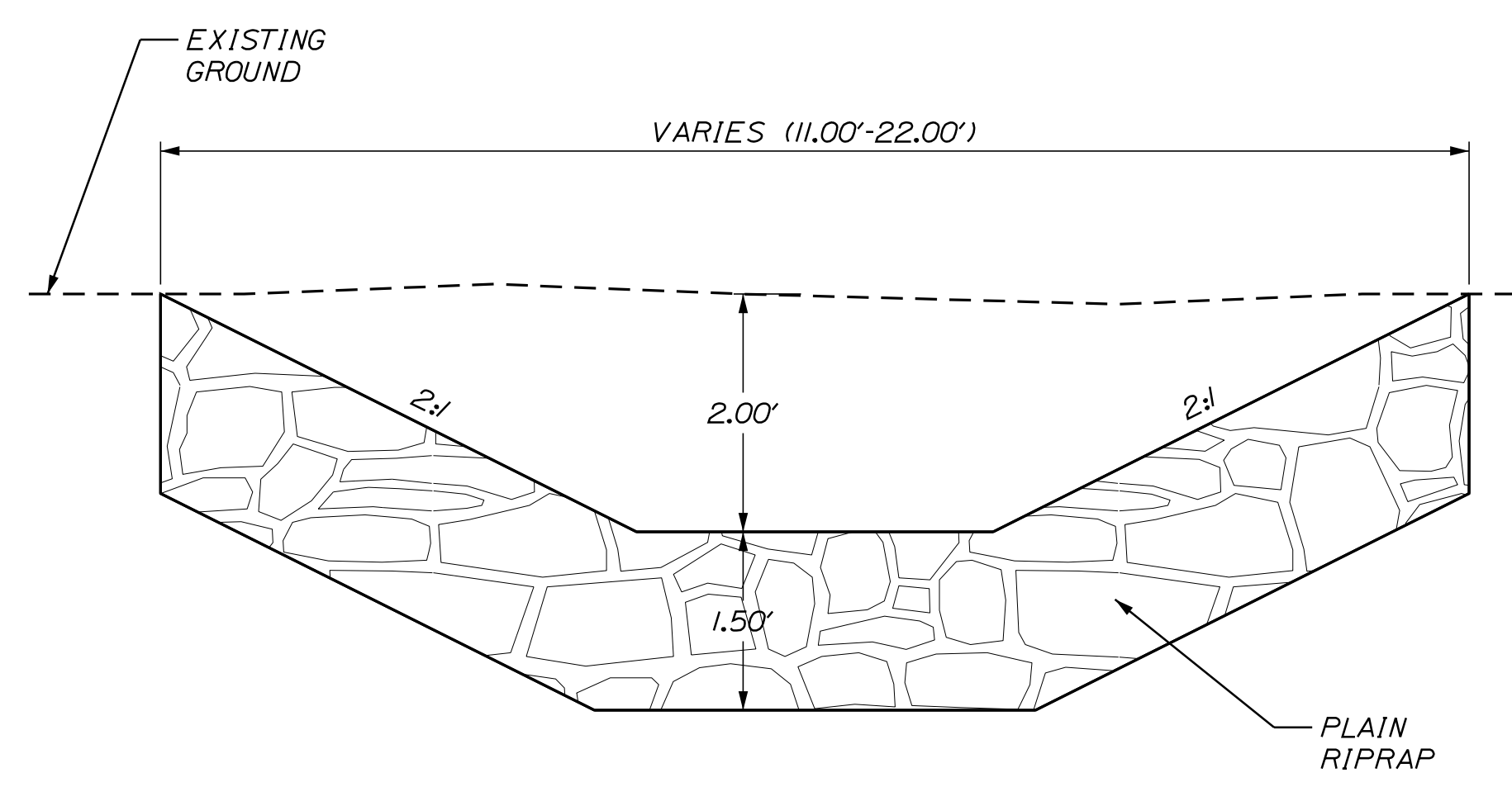
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STREAM REALIGNMENT
PLANTING BUFFER
N.T.S.

NOTES:

1. TO CONSTRUCT PLANTING BUFFER EXCAVATE 1' BELOW PROPOSED SLOPE GRADE AND PLACE 18" OF COMPOST LOAM & SEED.



LEVEL LIP SPREADER TYPICAL SECTION
N.T.S.

CONTROL POINTS FOR LEVEL LIP SPREADER				
POINT	Q STATION	Q OFFSET	X-COORD	Y-COORD
A	13+92.23	152.02' LT	958548.2540	309524.4095
B	14+93.65	179.20' LT	958645.5880	309485.0255

NOTES:

1. REMOVAL AND RELOCATION OF THE LEVEL LIP SPREADER SHALL BE PAID FOR UNDER THE APPROPRIATE CONTRACT ITEMS.
2. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT EITHER THE EXISTING OR RELOCATED LEVEL LIP SPREADER IS OPERATIONAL AT ALL TIMES.
3. THE RELOCATED LEVEL LIP SPREADER IS TO MATCH THE EXISTING LEVEL LIP SPREADER DIMENSIONS, SLOPE, AND MATERIALS. THE ACTUAL RELOCATED LEVEL LIP SPREADER DIMENSIONS, SLOPE, AND MATERIALS MAY BE ALTERED BY THE RESIDENT TO MATCH EXISTING.

PLAN

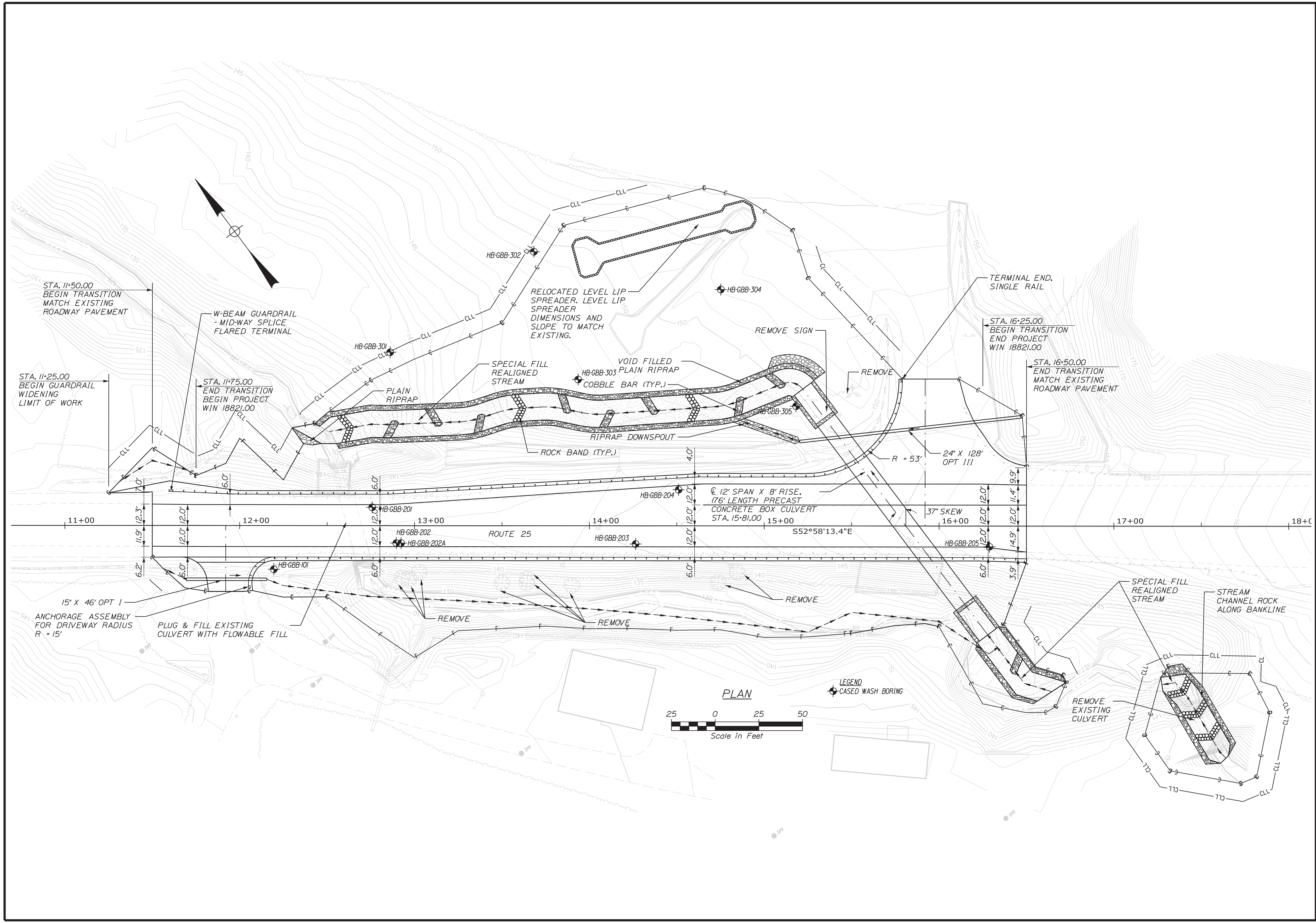
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GORHAM - BRANDY BROOK ROUTE 25		SPECIAL DETAILS - LEVEL LIP SPREADER & PLANTING BUFFER			
PROJ. MANAGER	L. HAMILTON	DATE	5/20/2020	BY	T. WOLFE
DESIGN-DETAILED	T. WOLFE	CHECKED-REVIEWED	K. WOOD	DESIGNED	M. STEELE
DESIGNED	M. STEELE	DESIGNED	M. STEELE	DESIGNED	M. STEELE
REVISIONS 1		REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	
SHEET NUMBER		9			
		OF 24			

Username: Cody A. Russell

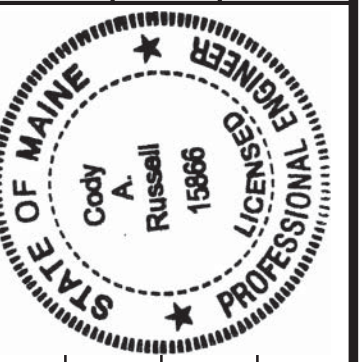
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Division: GEOTECH

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018821.00
WIN
018821.00
HIGHWAY PLANS

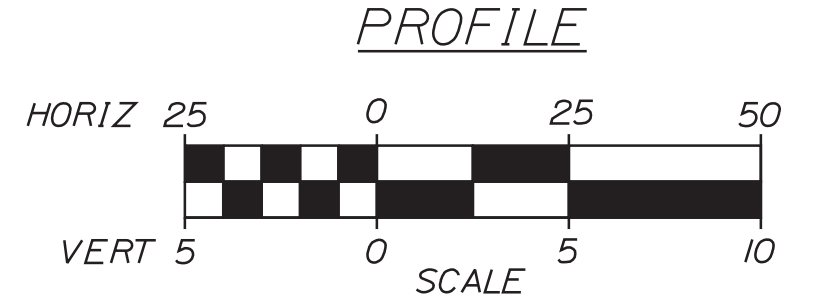
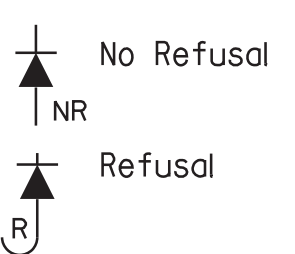
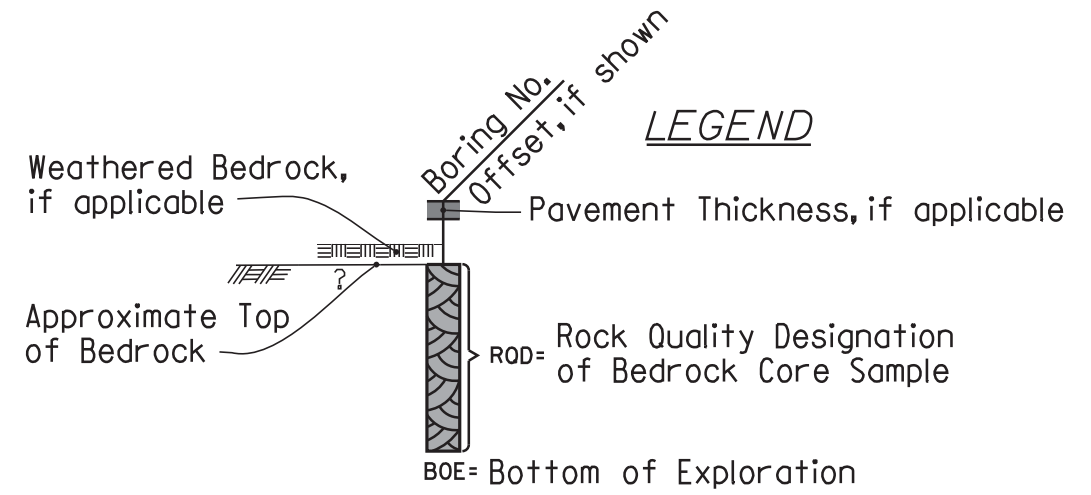
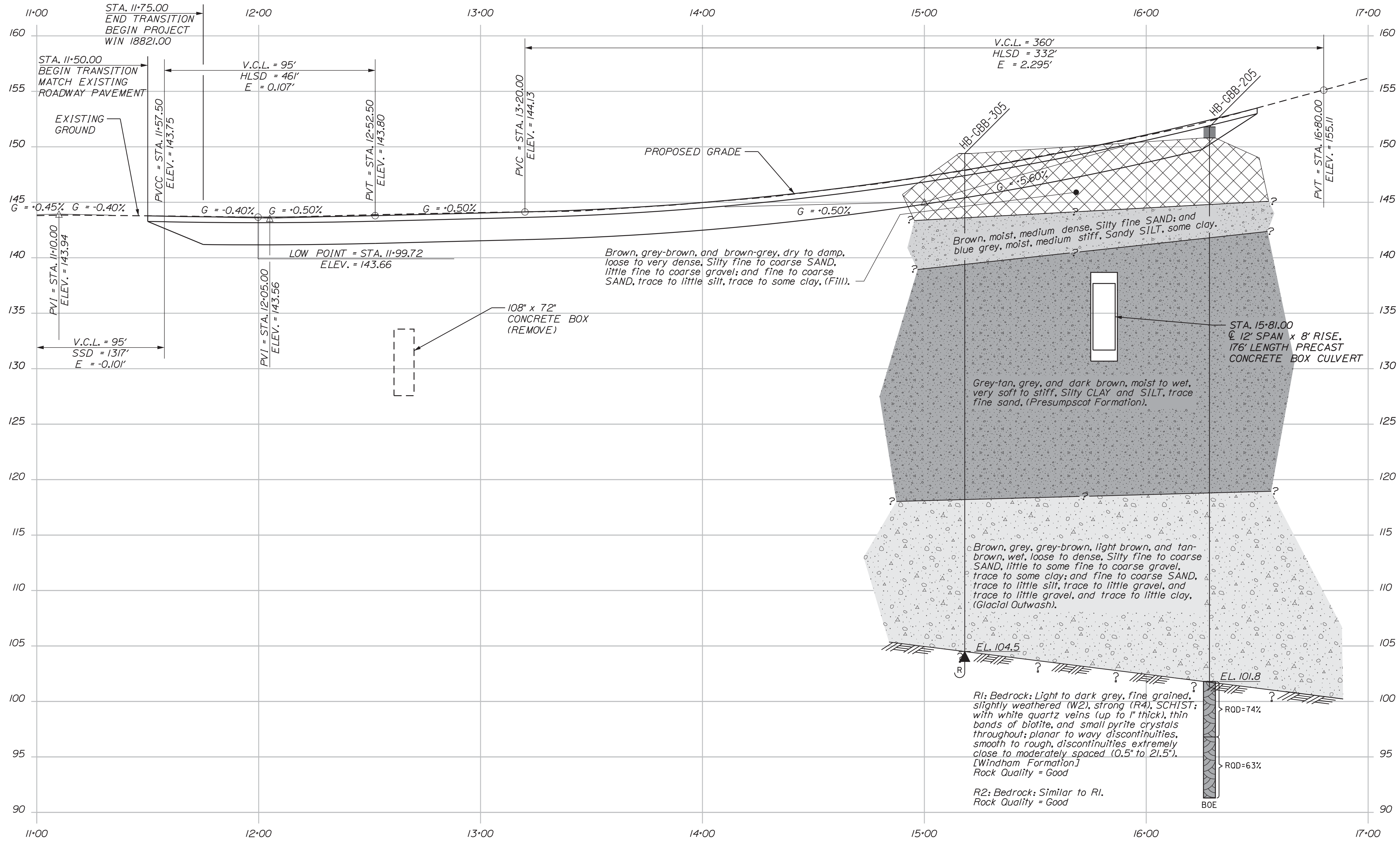


Cody A. Russell
SIGNATURE
FEB 2020
15866
P.E. NUMBER
4/30/2020
DATE

PROJ. MANAGER	BY	DATE
C. RUSSELL	T. WHITE	FEB 2020
DESIGN DETAILED	C. RUSSELL	T. WHITE
DESIGN REVIEWED		
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

GORHAM - BRANDY BROOK
ROUTE 25
BORING LOCATION PLAN

SHEET NUMBER
10
OF 24



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.



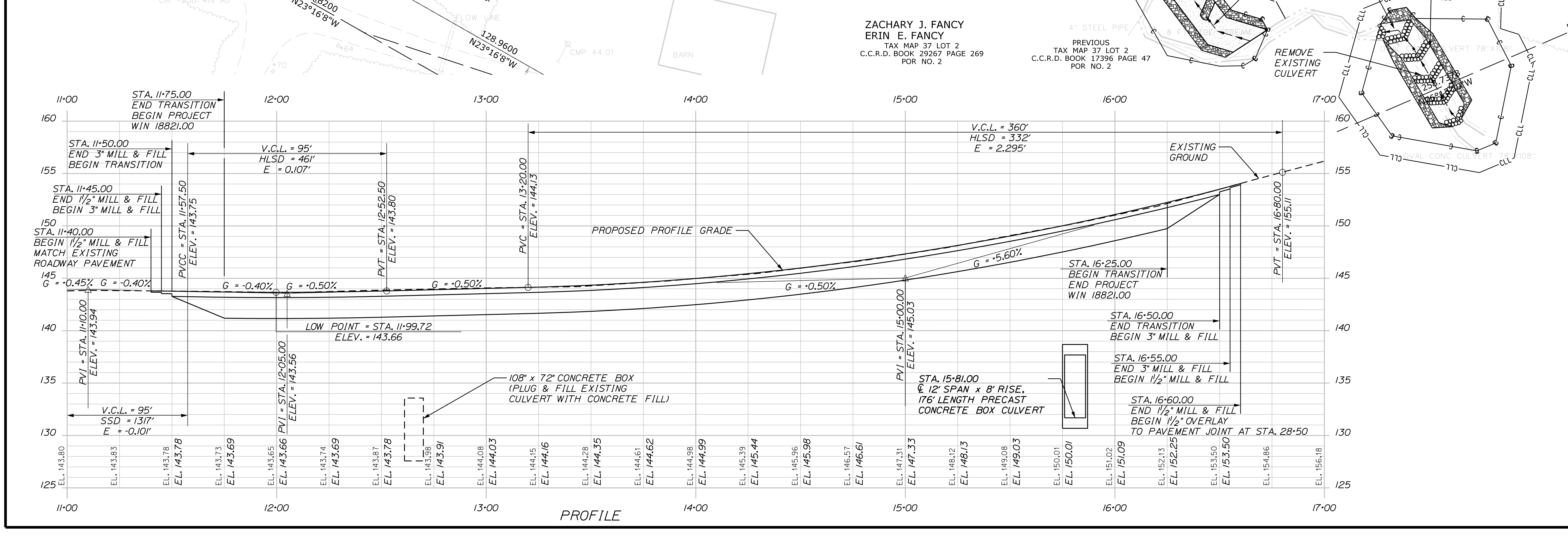
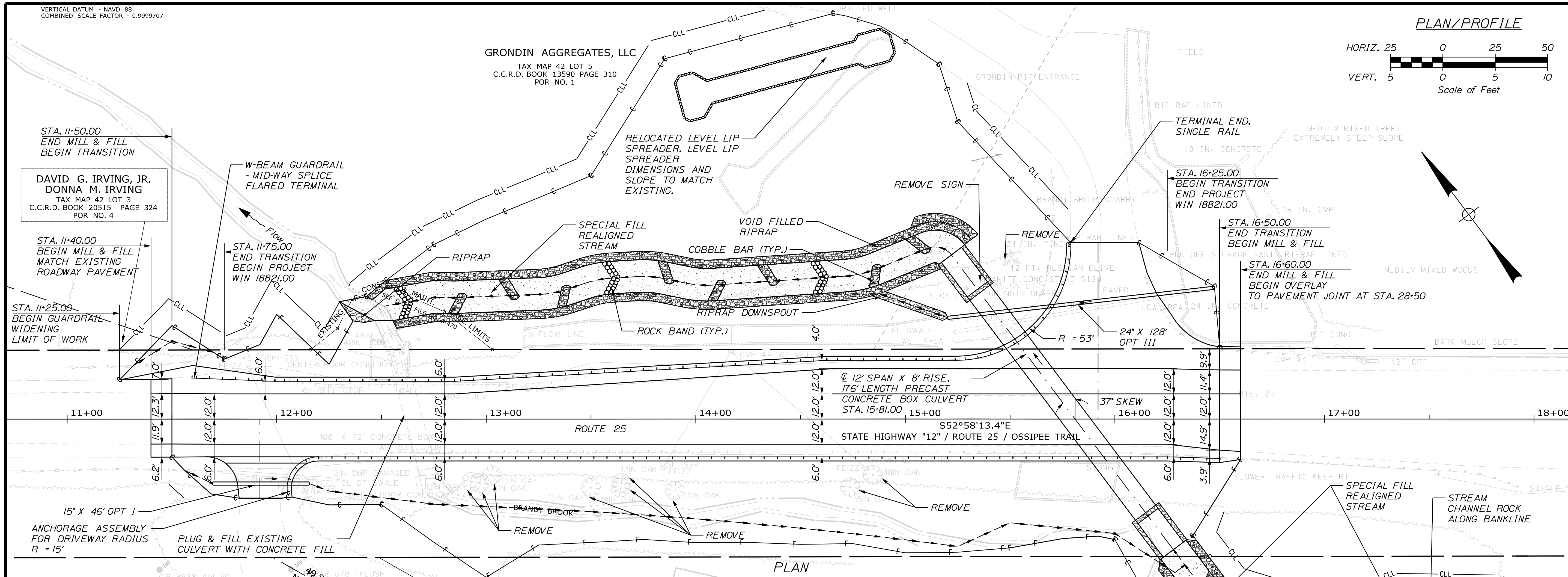
Cody A. Russell
SIGNATURE
15866
P.E. NUMBER
4/30/2020
DATE

PROJ. MANAGER	BY	DATE
CHECKED-REVIEWED	C. RUSSELL	FEB 2020
DESIGNS DET AILED	T. WHITE	
DESIGNS DET AILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

GORHAM - BRANDY BROOK
ROUTE 25
INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

Filename: ... \HIGHWAY\MSTA1012_Hdplan.dgn
 Division: HIGHWAY
 Username:
 Date: 5/20/2020



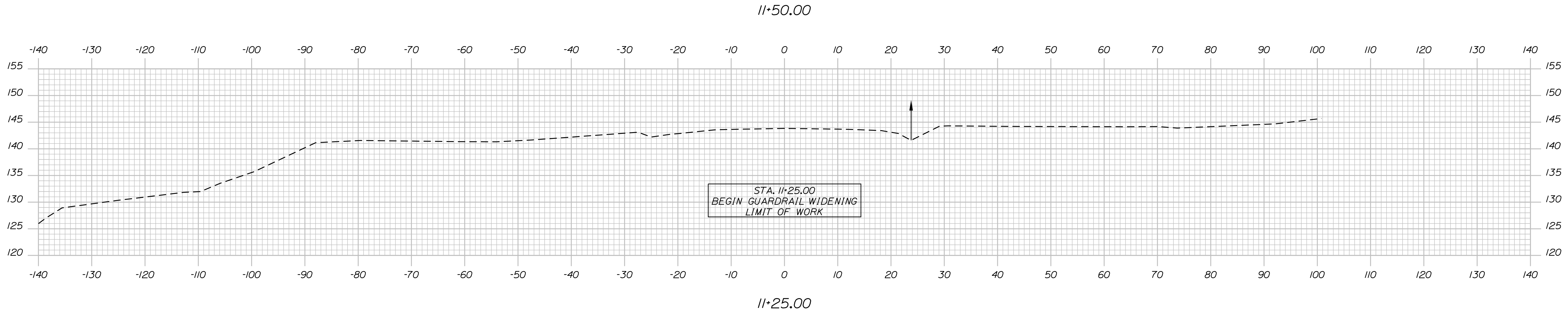
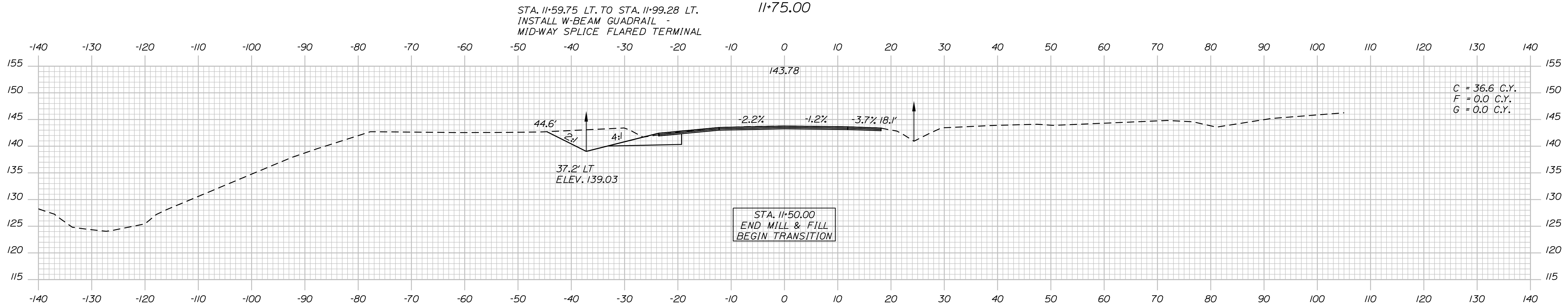
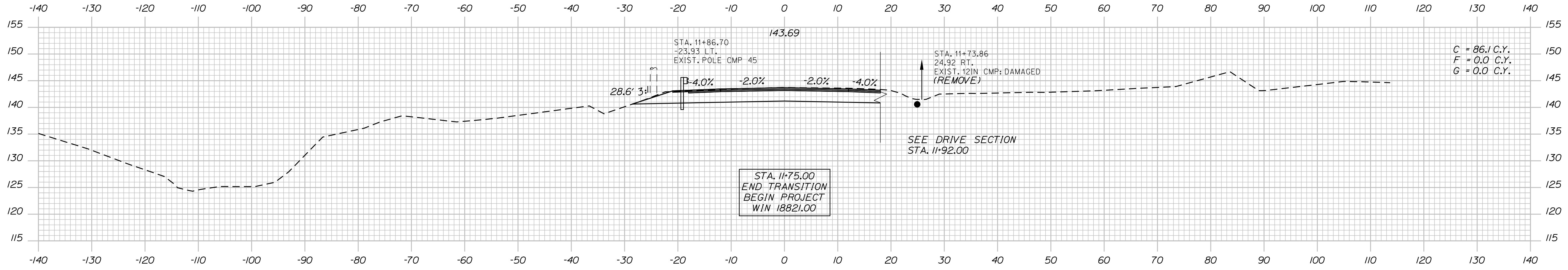
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		1882100	WIN 18821.00	HIGHWAY PLANS
PROJECT NUMBER	DATE	BY	DATE	DATE
1882100	5/20/2020	T. WOLFEL	5/20/2020	
CHECKED/REVIEWED	DATE	BY	DATE	
K. WOOD	5/20/2020	M. STEELE	5/20/2020	
DESIGNED/DETAILED	DATE	BY	DATE	
DESIGNED/DETAILED	DATE	BY	DATE	
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				
GORHAM - BRANDY BROOK ROUTE 25		PLAN AND PROFILE		
SHEET NUMBER		12		
		OF 24		

Date: 5/20/2020

Username:

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTAXsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
1882100
WIN
18821.00
HIGHWAY PLANS

DATE: 5/20/2020
BY: T. WOLFE, M. STEELE
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

PROJ. MANAGER	BY	DATE
L. HAMILTON	T. WOLFE	5/20/2020
DESIGN-DETAILED	M. STEELE	5/20/2020
CHECKED-REVIEWED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

GORHAM - BRANDY BROOK
ROUTE 25
CROSS SECTIONS

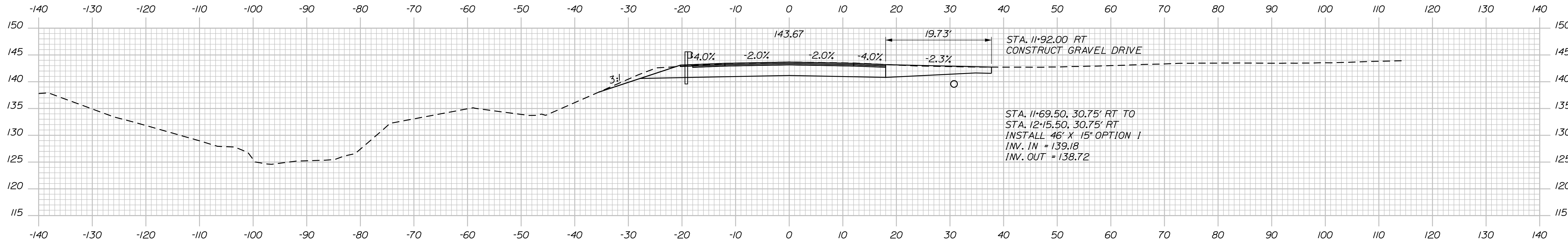
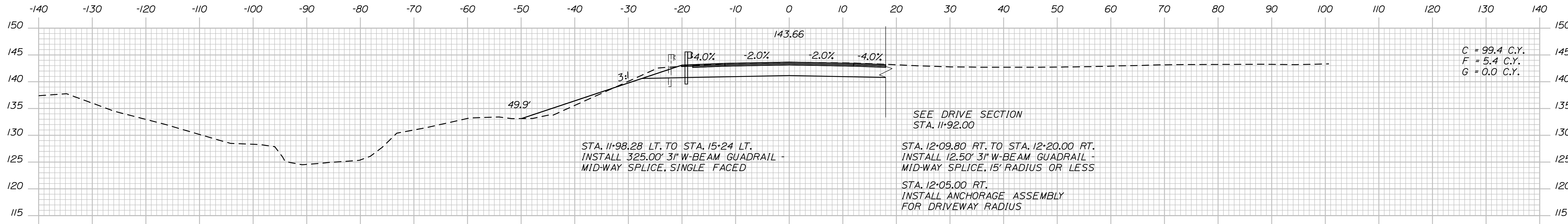
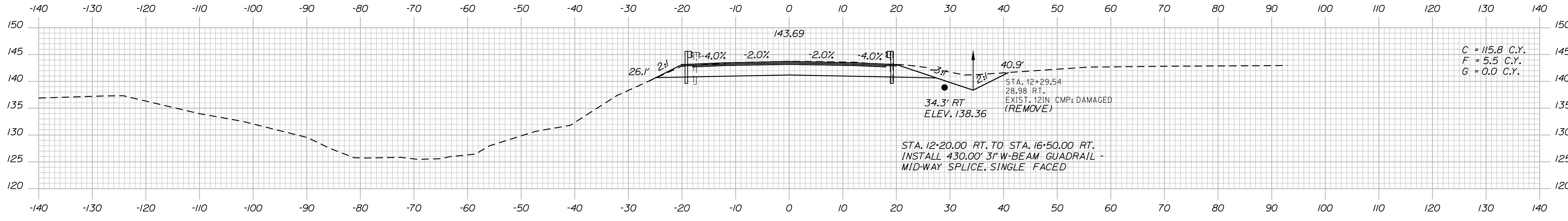
SHEET NUMBER
13
OF 24

Date: 5/20/2020

Username:

Division: HIGHWAY

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DATE	BY	PROJ. MANAGER	CHECKED	DESIGNED	REVISIONS	SIGNATURE	P.E. NUMBER	DATE
5/20/20	T. WOLFEL	L. HAMILTON	T. WOLFEL	T. WOLFEL	1			
5/20/20	M. STEELE		K. WOOD	K. WOOD	2			
					3			
					4			
					FIELD CHANGES			

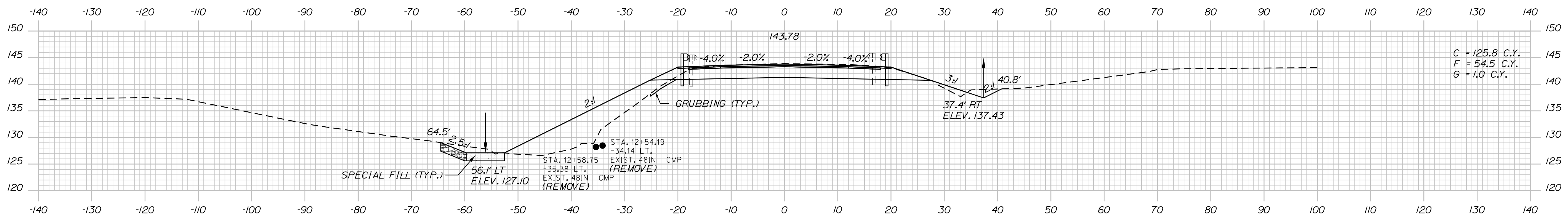
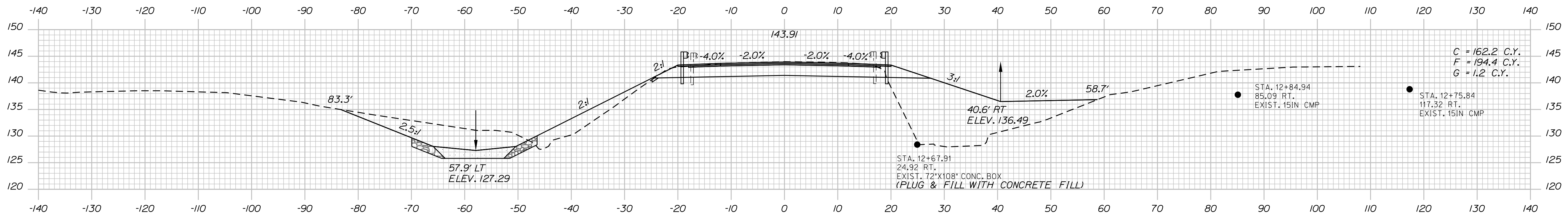
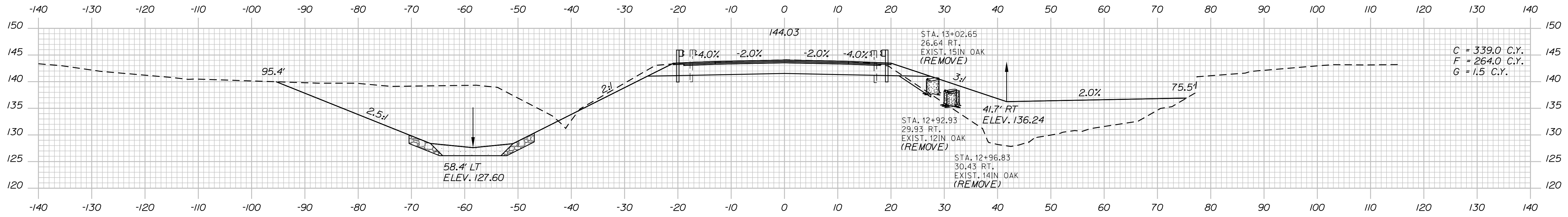
GORHAM - BRANDY BROOK
ROUTE 25
CROSS SECTIONS

Date: 5/20/2020

Username:

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTAXsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1882100

WIN

HIGHWAY PLANS

SIGNATURE

DATE

BY

L. HAMILTON

T. WOLFEL

M. STEELE

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-DETAILED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

P.E. NUMBER

DATE

GORHAM - BRANDY BROOK
ROUTE 25

CROSS SECTIONS

SHEET NUMBER

15

OF 24

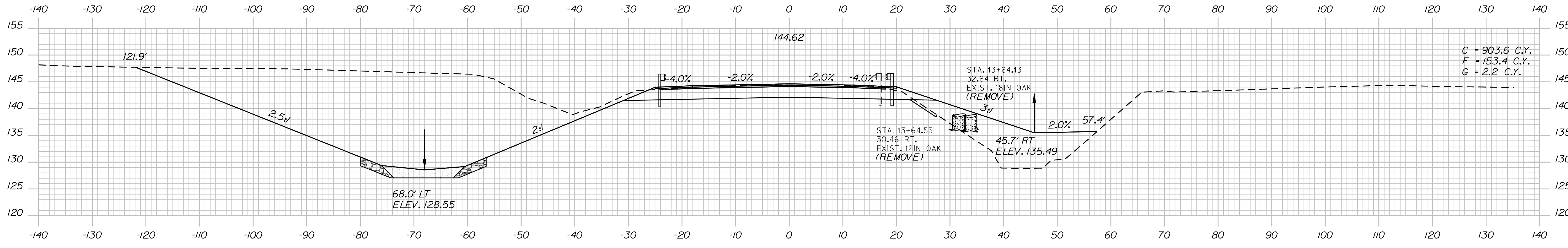
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Date: 5/20/2020

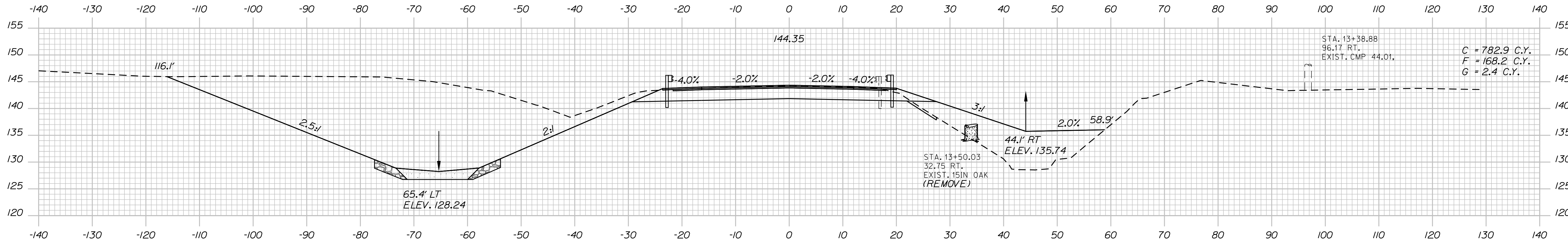
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Division: HIGHWAY

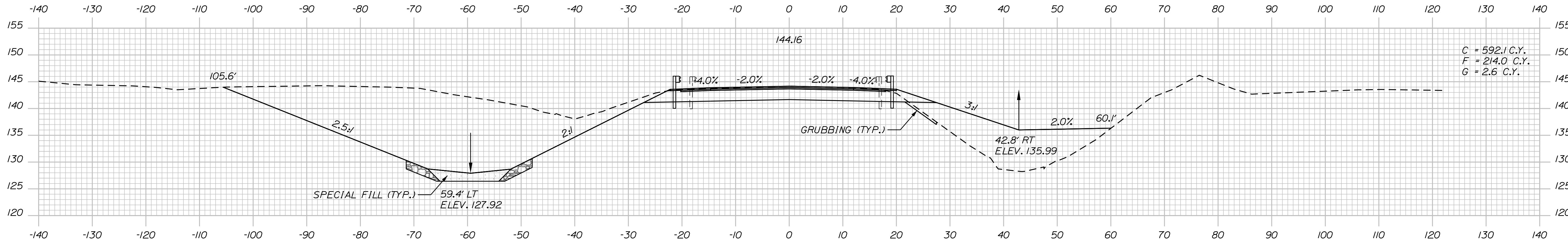
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 F = 153.4 C.Y.
 G = 2.2 C.Y.



C = 782.9 C.Y.
 F = 168.2 C.Y.
 G = 2.4 C.Y.



C = 592.1 C.Y.
 F = 214.0 C.Y.
 G = 2.6 C.Y.

DATE	5/20/20
BY	T. WOLFEL
PROJ. MANAGER	L. HAMILTON
DESIGN-DETAILED	T. WOLFEL
CHECKED-REVIEWED	K. WOOD
DESIGN-DETAILED	M. STEELE
DESIGNS DET AILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

SIGNATURE	P.E. NUMBER	DATE

GORHAM - BRANDY BROOK
 ROUTE 25
 CROSS SECTIONS

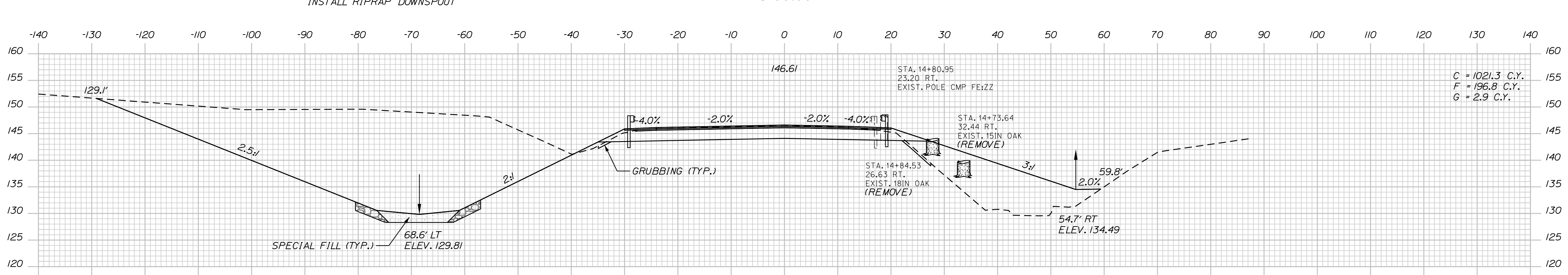
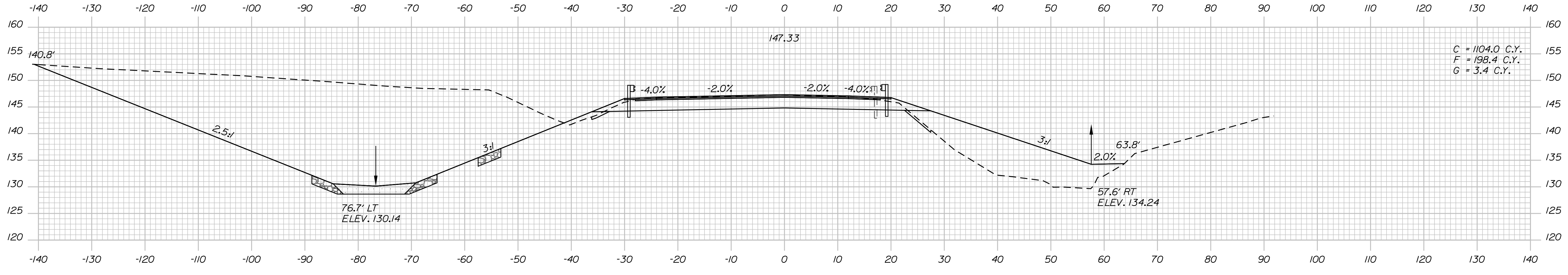
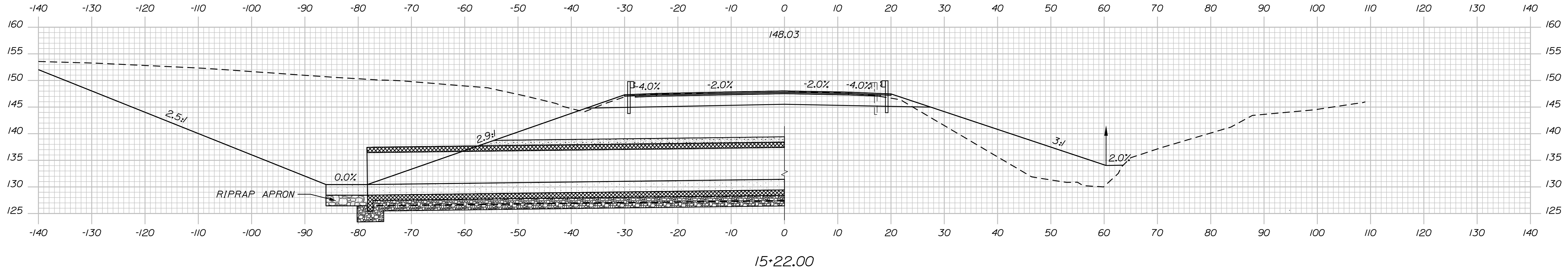
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 OF 24

Date: 5/20/2020

Username:

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\Xsect.dgn



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 F = 198.4 C.Y.
 G = 3.4 C.Y.

C = 1021.3 C.Y.
 F = 196.8 C.Y.
 G = 2.9 C.Y.

DATE	5/20/20
BY	T. WOLFE
PROJ. MANAGER	L. HAMILTON
DESIGN-DETAILED	T. WOLFE
CHECKED-REVIEWED	K. WOOD
DESIGN-DETAILED	M. STEELE
DESIGN-DETAILED	
REVISIONS 1	
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REVISIONS 4	
FIELD CHANGES	

SIGNATURE	
P.E. NUMBER	
DATE	

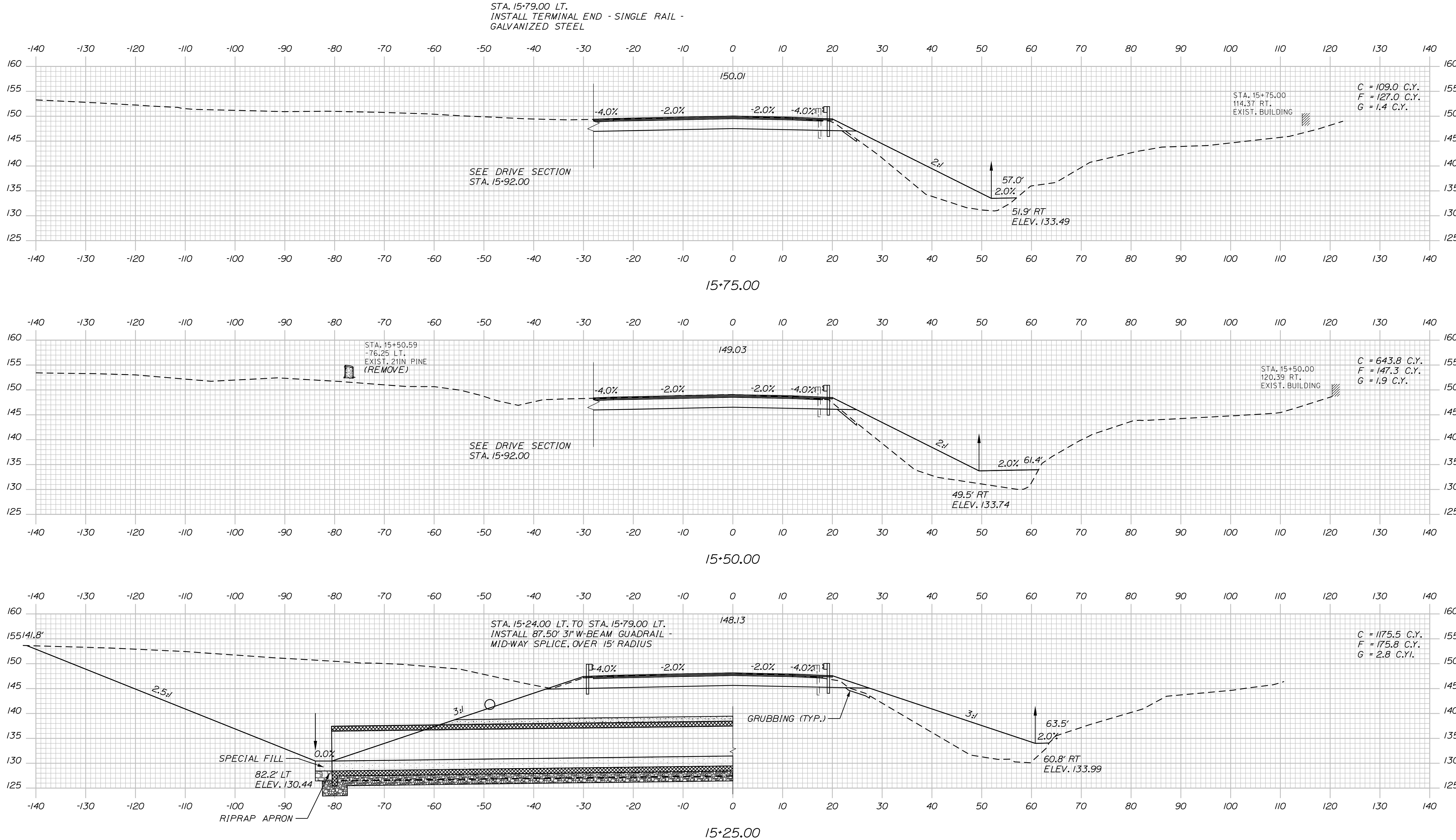
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 ROUTE 25
 CROSS SECTIONS

Date: 5/20/2020

Username:

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTAXsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
1882100
WIN
18821.00
HIGHWAY PLANS

DATE	BY	PROJ. MANAGER	DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
5/20/20	T. WOLFEL	L. HAMILTON	T. WOLFEL	M. STEELE	K. WOOD					
5/20/20										

GORHAM - BRANDY BROOK
ROUTE 25
CROSS SECTIONS

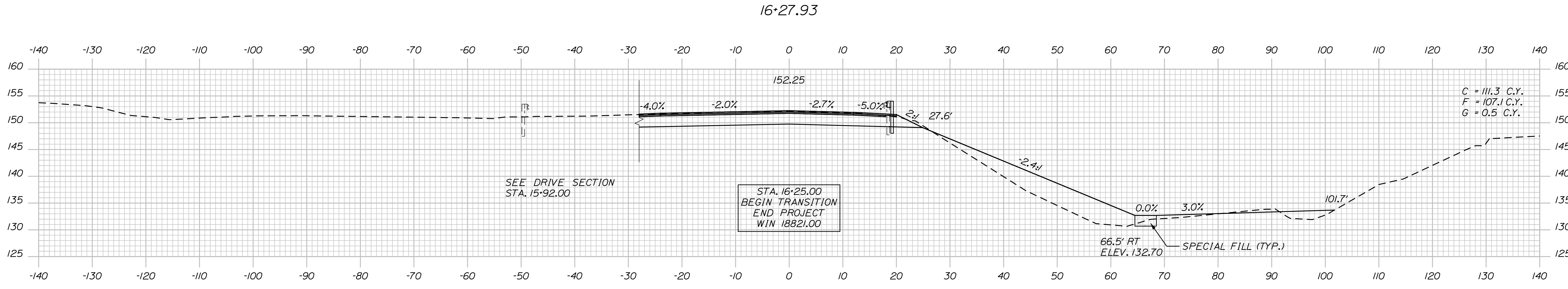
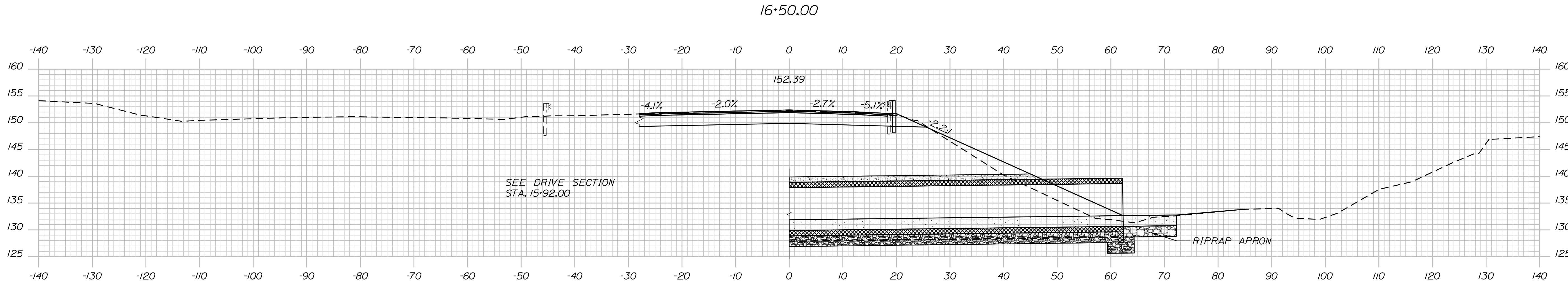
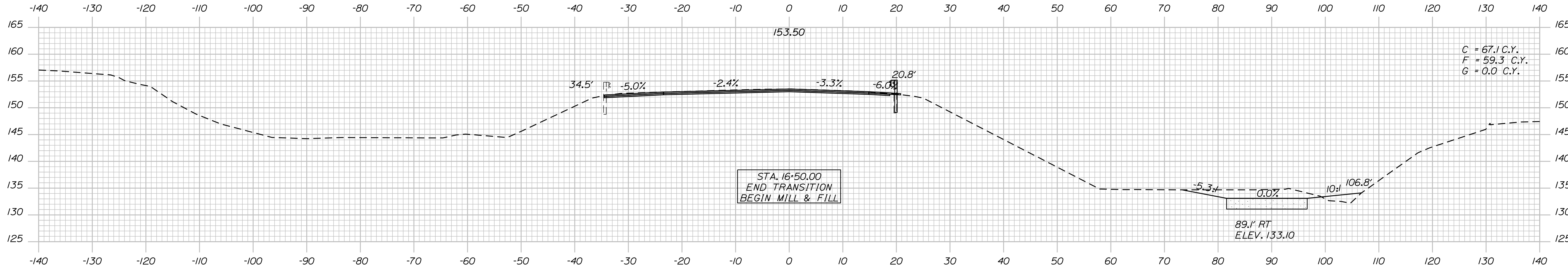
SHEET NUMBER
19
OF 24

Date: 5/20/2020

Username:

Division: HIGHWAY

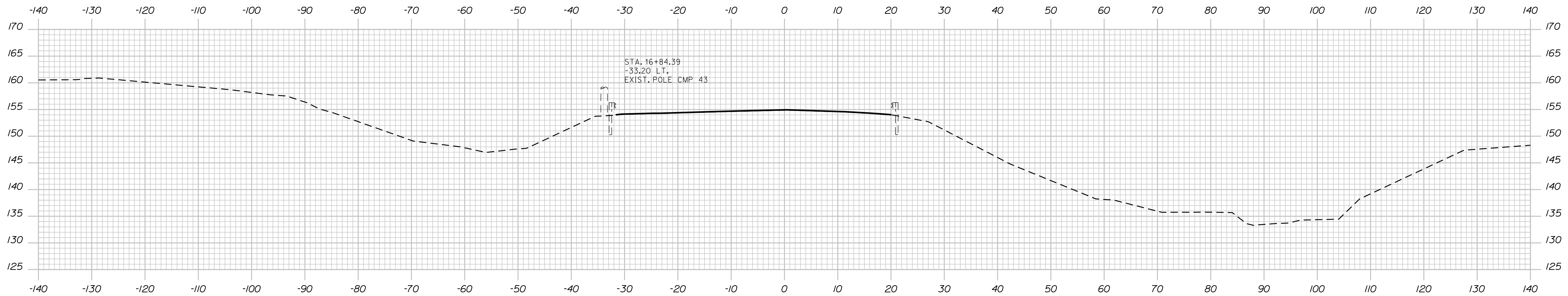
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DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
5/20/20	T. WOLFEL	L. HAMILTON	T. WOLFEL	M. STEELE	K. WOOD					
5/20/20										

SIGNATURE
P.E. NUMBER
DATE

GORHAM - BRANDY BROOK
ROUTE 25
CROSS SECTIONS



16+75.00

Sta. 16+75.00 to Sta. 17+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1882100

WIN
18821.00

HIGHWAY PLANS

SIGNATURE

DATE

BY

L. HAMILTON
T. WOLFEL
M. STEELE

PROJ. MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-DETAILED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

P.E. NUMBER

DATE

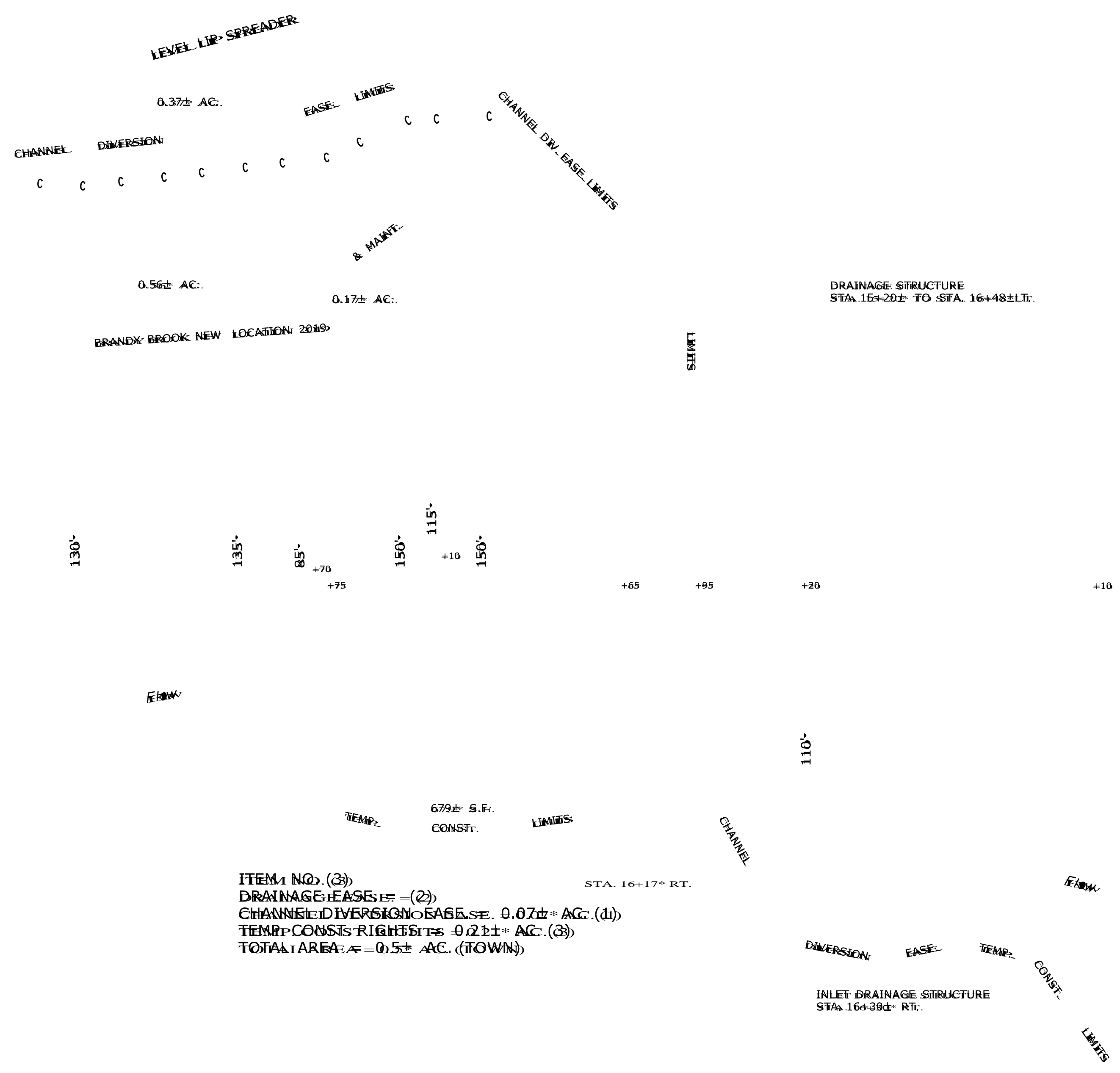
GORHAM - BRANDY BROOK
ROUTE 25

CROSS SECTIONS

SHEET NUMBER

22

OF 24



GRONDIN AGGREGATES LLC
 ITEM NO. (2)
 SLOPE EASEMENTS = 937± S.F. (d)
 DRAINAGE EASEMENTS = (d)
 CHANNEL DIVERSION EASEMENTS = 0.56± AC. (d)
 CONST. & MAINT. EASEMENTS = 0.17± AC. (d)
 TEMP. CONST. RIGHTS = 0.17± AC. (d)
 TOTAL AREA = 72.25± AC. (TOWN)

ITEM NO. (3)
 DRAINAGE EASEMENTS = (2)
 CHANNEL DIVERSION EASEMENTS = 0.07± AC. (d)
 TEMP. CONST. RIGHTS = 0.21± AC. (3)
 TOTAL AREA = 0.5± AC. (TOWN)

PETER D. CHRISTENSEN, TRUSTEE
 LORRAINE I. CHRISTENSEN, TRUSTEE
 CHRISTENSEN FAMILY REAL ESTATE TRUST
 ITEM NO. (4)
 TEMP. CONST. RIGHTS = 0.10± AC. (d)
 TOTAL AREA = 58± AC. (TOWN)

EXISTING:
 CONCRETE
 BOX CULVERT
 TO BE REMOVED

OTHER PLANS USED TO ESTABLISH THE EXISTING RIGHT OF WAY:
 ROUTE 25
 D.O.T. FILE NO. 3-541, FEDERAL AID PROJECT NO. HP-8454(300), PLAN 008454.30.
 D.O.T. FILE NO. 3-325, SHEET 3 OF 14, FEDERAL AID PROJECT NO. F-FG-042-1(32), SECT. 1
 (RAILROAD SPIKES LOCATED ON CRESSEY ROAD).

P.L.
 PETITION FOR DISCONTINUANCE PREPARED MAY 2001, SEE D.O.T. FILE NO. 3-325 SHEET 4 OF 14.
 THE TOWN APPROVED THE PETITION FOR DISCONTINUANCE WITH NO PUBLIC EASEMENT.
 SEE THE REPORT OF THE GORHAM TOWN COUNCIL REGULAR MEETING ITEM NO. 9882, DATED
 FEB. 7, 2017 (SEE TIDOCs NO. 1784542)