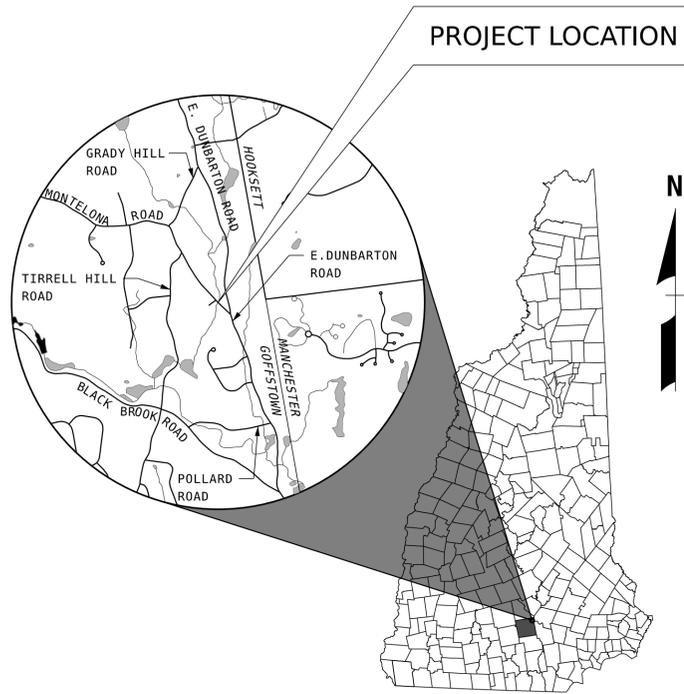


TOWN OF GOFFSTOWN HILLSBOROUGH COUNTY NEW HAMPSHIRE



PLANS OF PROPOSED CULVERT REPLACEMENT MONTELONA ROAD OVER HARDY BROOK

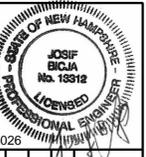
FEBRUARY 2026



LOCATION MAP

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DESIGNED H. LAUZON	DRAWN T. GELINAS	CHECKED J. BICJA	PROJECT NO. N/A	DATE FEBRUARY 2026
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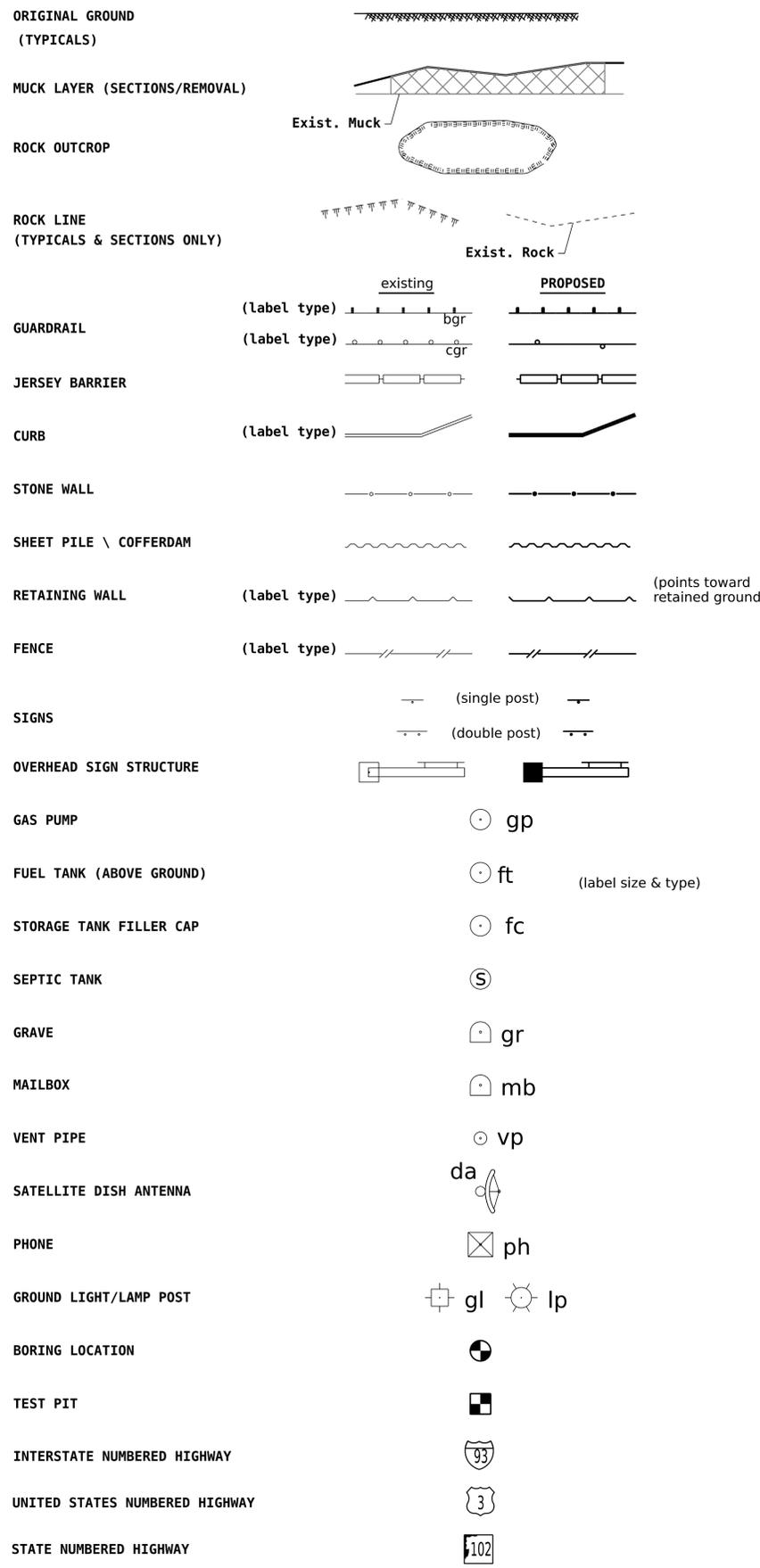
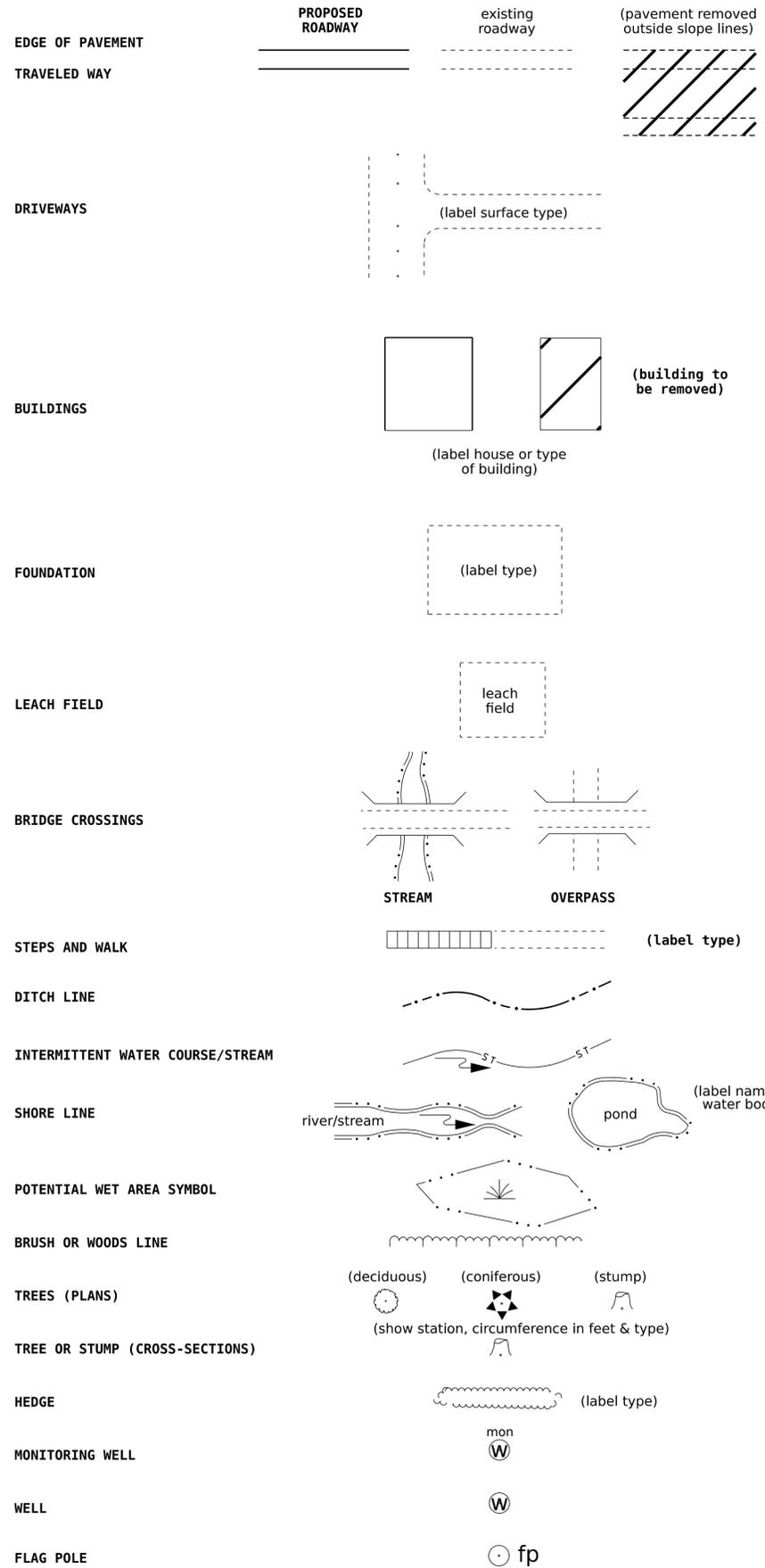
GOFFSTOWN, NEW HAMPSHIRE
MONTELONA ROAD OVER HARDY BROOK
TITLE SHEET

PROJECT NO. 24.010001.02

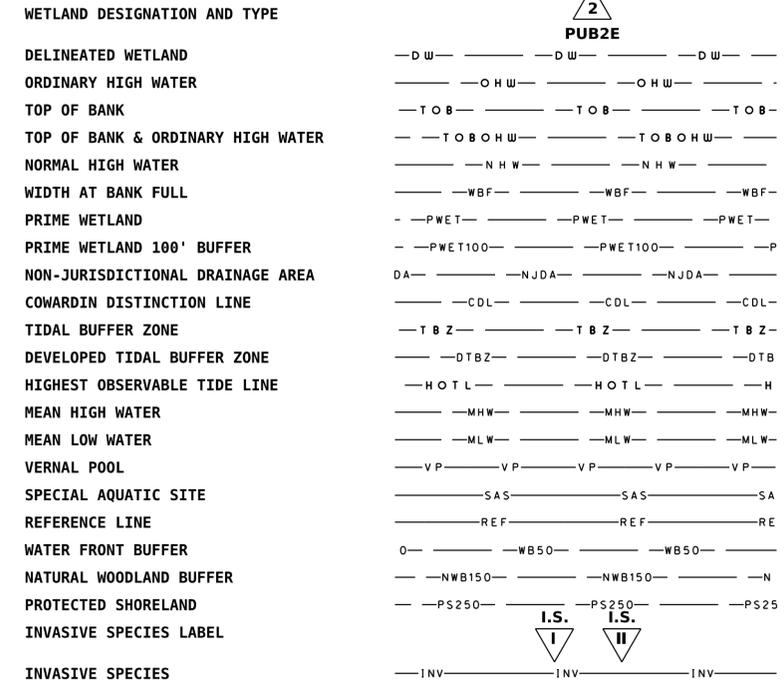
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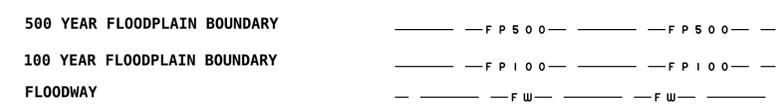
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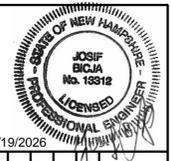
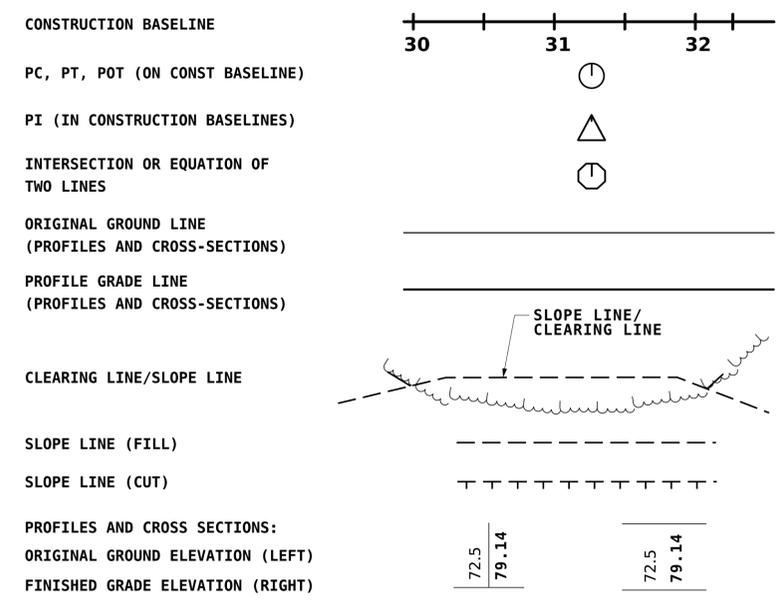
SHORELAND - WETLAND



FLOODPLAIN / FLOODWAY



ENGINEERING



DESIGNED	H. LAUZON	DATE	2/19/2026
DRAWN	T. GELINAS	CHECKED BY	
CHECKED	J. BICJA	DRAWN BY	
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DATE	FEBRUARY 2026	REV.	

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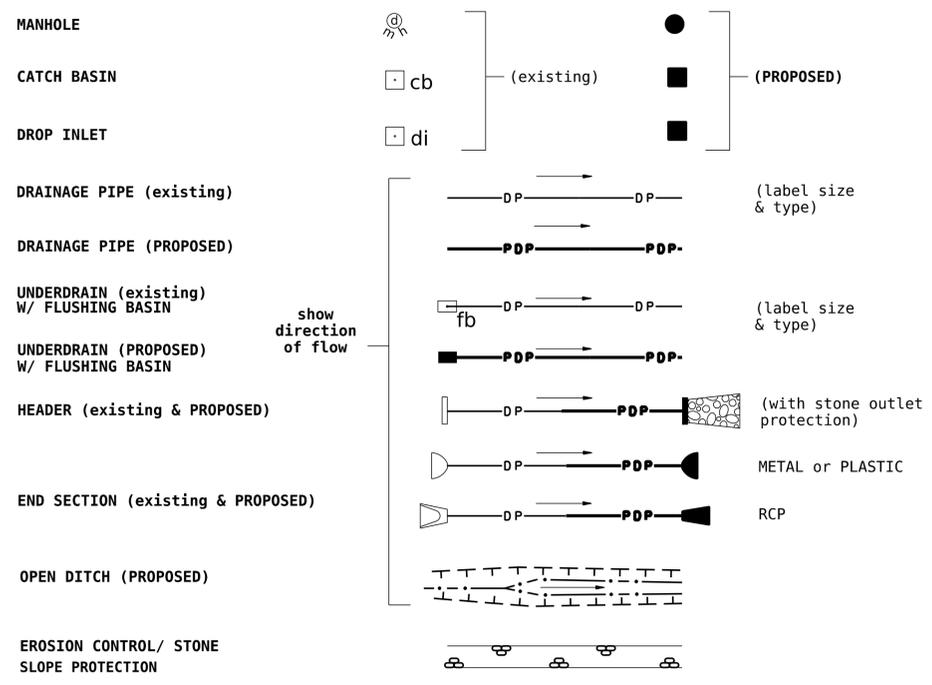


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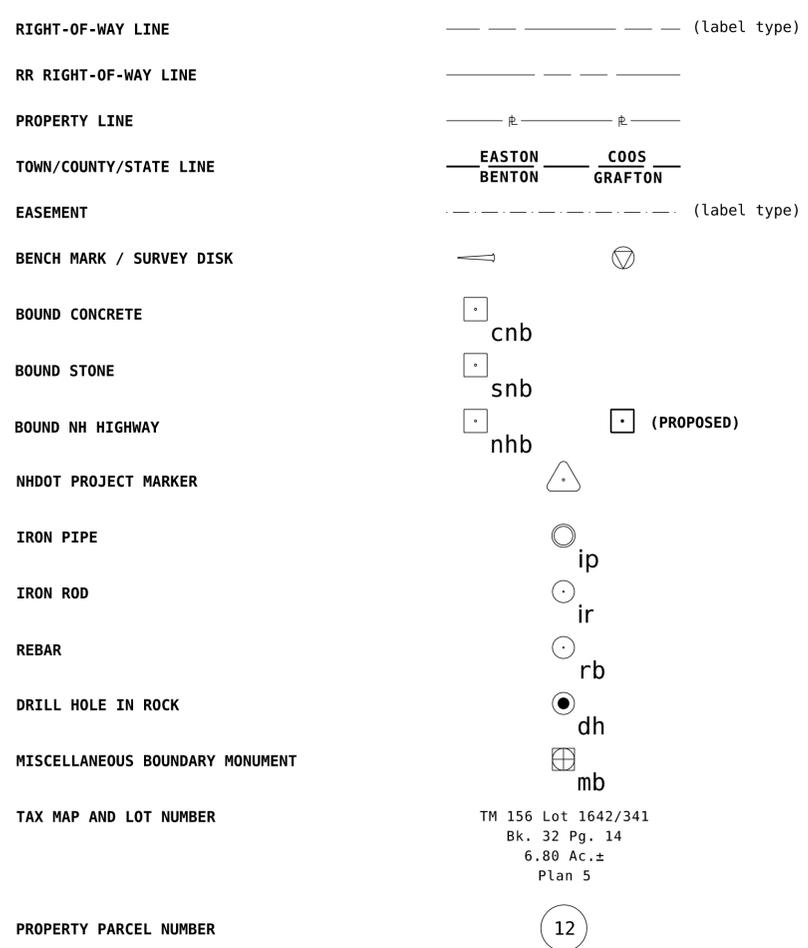
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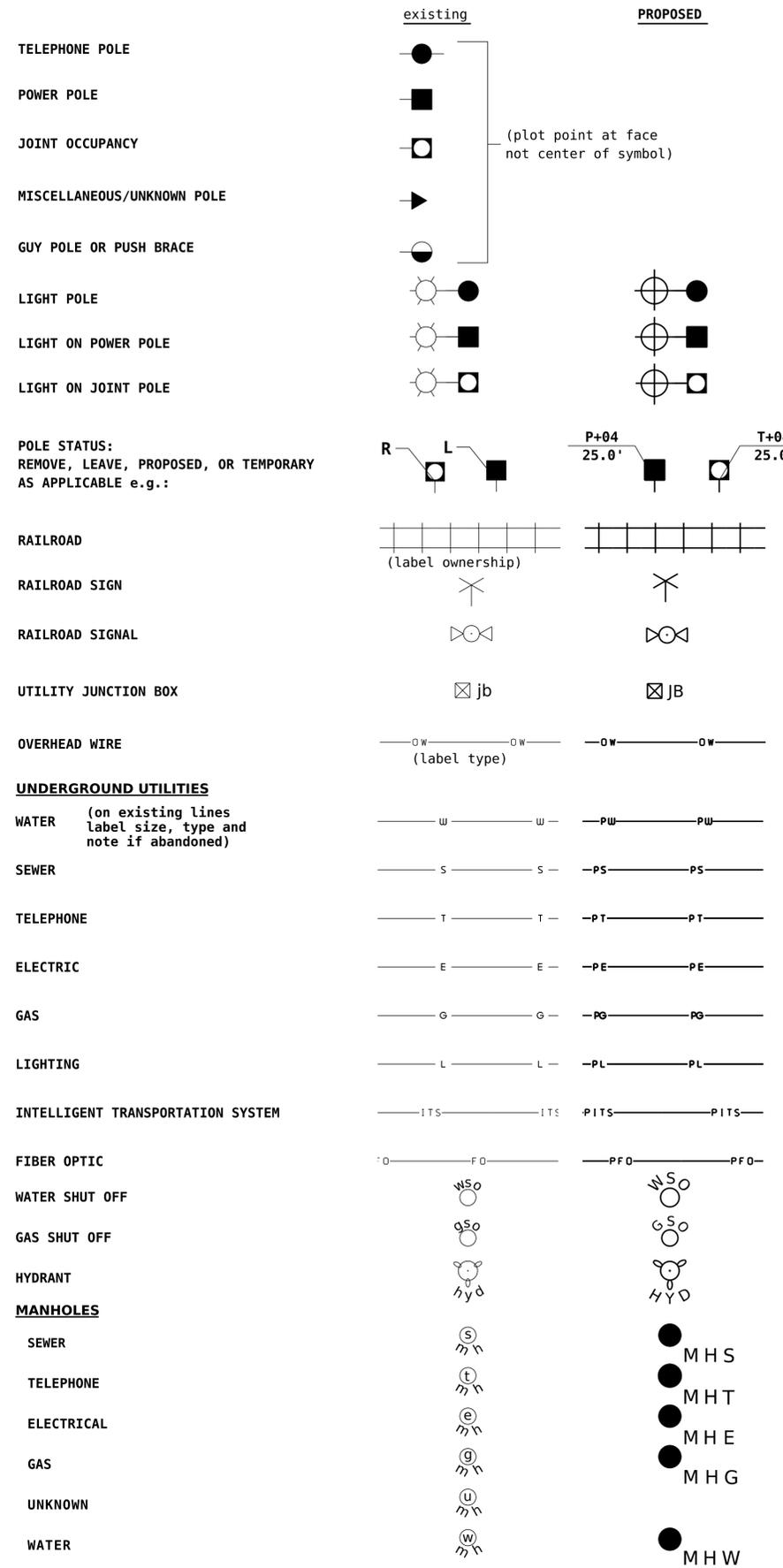
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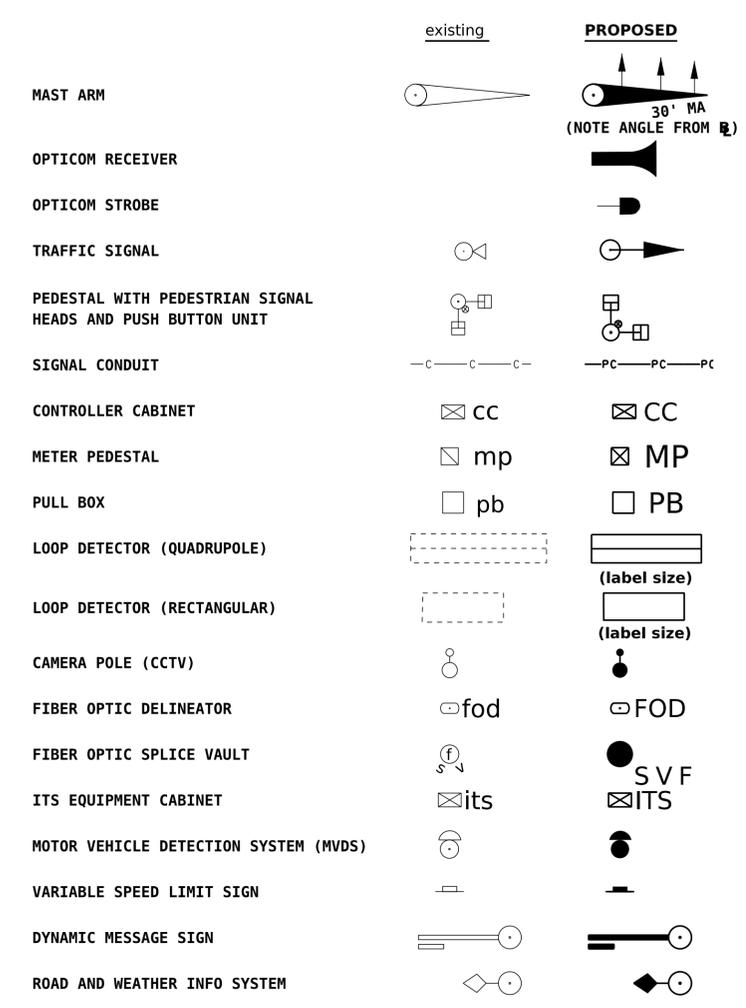
BOUNDARIES / RIGHT-OF-WAY



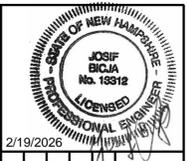
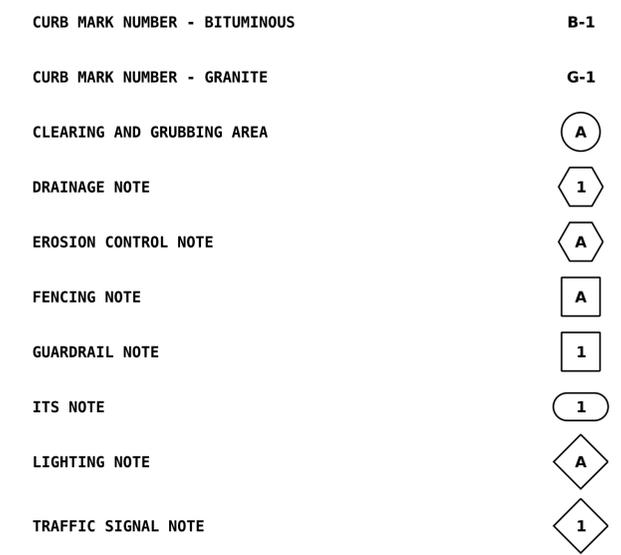
UTILITIES



TRAFFIC SIGNALS / ITS



CONSTRUCTION NOTES



DATE	CHECKED BY	DRAWN BY	DESCRIPTION	REV.	DESIGNED	DRAWN	CHECKED	NHDOT BRIDGE NO.	DATE
2/19/2026					H. LAUZON	T. GELINAS	J. BICJA	N/A	FEBRUARY 2026

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HOYLE TANNER

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GOFFSTOWN, NEW HAMPSHIRE	MONTELONA ROAD OVER HARDY BROOK	STANDARD SYMBOLS SHEET (2 OF 2)
PROJECT NO. 24.010001.02		
SHEET NO.		
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OF 18		

GENERAL NOTES

- ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS AND THE MORE STRINGENT SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND COORDINATION OF OTHER TRADES.
- THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SITE SAFETY SHALL SOLELY BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPONSIBLE TRADES PRIOR TO COMMENCING WITH THE WORK, FABRICATION OR ORDERING MATERIALS. DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN.
- ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, BEFORE PROCEEDING WITH THE WORK.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. ALL COSTS FOR DETERMINING UNDERGROUND UTILITY TYPES AND LOCATIONS SHALL BE SUBSIDIARY TO THE CONTRACT. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE AGREED TO BY THE ENGINEER AND UTILITY OWNERS BEFORE PROCEEDING WITH THE WORK.
- ALL APPLICABLE UTILITY DEPARTMENTS AND COMPANIES SHALL BE NOTIFIED BEFORE EXCAVATION IS STARTED. UTILITIES WITHIN 50 FEET OF AN EXCAVATION SHALL BE MARKED IN THE FIELD.
- HOYLE TANNER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE DUE TO THE FAILURE OF THE CONTRACTOR:
 - TO FOLLOW THESE DRAWINGS AND SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
 - TO NOTIFY HOYLE TANNER OF ANY DISCREPANCIES, ERRORS, OMISSIONS OR CONFLICTS AND OBTAIN THEIR GUIDANCE TO RESOLVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, INSTALLATION AND REMOVAL OF ALL TEMPORARY SHORING AND BRACING REQUIRED DURING CONSTRUCTION.
- THE CONTRACTOR SHOULD NOTE THAT THE NHDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" ARE MADE A PART OF THIS PROJECT AND ALL APPLICABLE DETAILS, STANDARDS AND SPECIFICATIONS SHALL APPLY. THIS PROJECT SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING STANDARD PLANS:
 - ES-1 – END SECTIONS FOR CORRUGATED STEEL AND REINFORCED CONCRETE PIPES

GENERAL CONSTRUCTION NOTES

- FOR WORKING POINTS LAYOUT, SEE SHEET 13.
- THE CULVERT WILL BE CLOSED PRIOR TO THE START OF CONSTRUCTION AND TRAFFIC WILL BE DETOURED AROUND THE SITE. THE TOWN WILL SUPPLY, ERECT AND MAINTAIN THE PERMANENT CONSTRUCTION FENCING, SIGNS AND/OR WARNING DEVICES AS NEEDED.
- DIMENSIONS, ANGLES, BEARINGS AND ELEVATIONS SHOWN ON THESE CONTRACT PLANS HAVE BEEN OBTAINED FROM EXISTING PLANS, LIMITED FIELD INVESTIGATIONS, AND SURVEY, AND MAY NOT ACCURATELY REFLECT ACTUAL FIELD CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING STRUCTURE COMPONENTS IMPACTED BY THE PROPOSED WORK TO ASSURE CONSISTENCY WITH THE PROPOSED MODIFICATIONS. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- WATER LEVEL MAY VARY FROM THAT SHOWN.
- CONCRETE TIES AND ANCHORAGES FOR USE IN FORMS ABOVE THE TOP OF FOOTINGS SHALL BE FABRICATED SO AS TO BE REMOVED TO A MINIMUM DEPTH OF 2" WITHOUT INJURY TO THE CONCRETE. HOLES SHALL BE PLUGGED WITH A MORTAR MATCHING THE COLOR OF ADJACENT CONCRETE FOR EXPOSED CONCRETE SURFACES.
- IF CONCRETE FORMS ARE TO BE TREATED WITH FORM RELEASE COMPOUND THIS WORK SHALL BE DONE PRIOR TO THE ERECTION OF THE FORMS. THE REINFORCING STEEL, AT THE TIME CONCRETE IS PLACED, SHALL BE FREE OF DIRT, PAINT, OIL, FORM RELEASE COMPOUND, OR OTHER ORGANIC MATERIALS THAT MAY ADVERSELY AFFECT OR REDUCE BOND.
- ALL BACKFILL MATERIAL (EXCEPT SUITABLE FILL) SHALL NOT EXCEED THE OPTIMUM MOISTURE CONTENT BY MORE THAN 2 PERCENTAGE POINTS. THE MATERIAL SHALL BE PLACED IN LAYERS NOT MORE THAN 12" LOOSE DEPTH, UNLESS OTHERWISE NOTED. FOR EARTH MATERIALS UNDER APPROACH SLABS AND FOR EARTH MATERIALS WITHIN 10' OF THE BACK OF STRUCTURES NOT HAVING APPROACH SLABS, AT LEAST 98 PERCENT OF MAXIMUM DENSITY SHALL BE OBTAINED. ALL OTHER BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF MAXIMUM DENSITY. THE COMPACTION WILL BE TESTED AT FREQUENCIES DETERMINED IN THE FIELD BY THE ENGINEER.
- A TEMPORARY BENCHMARK IS SHOWN ON SHEET 9. THERE ARE NO CONTROL POINTS FOR HORIZONTAL CONTROL, AND THE CONTRACTOR IS EXPECTED TO LAYOUT ALL PROPOSED WORK USING GPS EQUIPMENT. (ALL COSTS INCLUDED UNDER ITEM 692, MOBILIZATION).

WORK AREA NOTES

- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL LAYOUT LIMITS OF ALL EASEMENTS AND TOWN'S RIGHT-OF-WAY WITHIN THE PROJECT LIMITS. COST IS INCLUDED UNDER ITEM 692, MOBILIZATION.
- TEMPORARY AND PERMANENT EASEMENTS FROM AFFECTED ABUTTERS HAVE BEEN OBTAINED AND COORDINATED BY THE TOWN.
- CONSTRUCTION ACCESS SHALL BE LIMITED TO WITHIN THE TOWN'S RIGHT-OF-WAY AND EASEMENTS SHOWN IN THE PROJECT SPECIFICATIONS, UNLESS NOTED OTHERWISE. ADDITIONAL AREAS REQUIRED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED PROPERTY OWNERS AND OBTAIN TEMPORARY USE RIGHTS FOR SUCH AREAS.

HYDRAULIC DATA

1. DRAINAGE AREA:	2.0 SQUARE MILES
2. DESIGN FLOOD:	Q100
3. Q100 VELOCITY:	9.7 FPS
4. Q100 FLOOD ELEVATION:	432.8 FT
5. Q100 FLOOD FLOW:	253 CFS
6. BRIDGE WATERWAY OPENING:	41 SF
7. BRIDGE WATERWAY OPENING BELOW THE DESIGN FLOOD ELEVATION:	26 SF

EXISTING CULVERT REMOVAL NOTES

- ITEM 204.42, REMOVAL OF EXISTING PIPE OVER 24" DIAMETER, SHALL INCLUDE REMOVAL OF THE EXISTING CORRUGATED METAL PIPE, AND REMOVAL OF THE UPSTREAM AND DOWNSTREAM STONE AND CONCRETE HEADWALLS TO THE LIMITS SHOWN ON THESE PLANS.
- ITEM 207.3, UNCLASSIFIED CHANNEL EXCAVATION SHALL INCLUDE NECESSARY EXCAVATION OF EXISTING SOIL REQUIRED TO INSTALL RIPRAP IN FRONT OF THE WINGWALLS AND BOX CULVERT.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT NO DEBRIS FALLS INTO HARDY BROOK DURING CONSTRUCTION OPERATIONS. THE ERECTION, MAINTENANCE AND REMOVAL OF TEMPORARY STRUCTURES OR OTHER METHODS TO PREVENT DEBRIS FROM FALLING INTO HARDY BROOK, ARE CONSIDERED SUBSIDIARY TO ITEM 202.42.

DESIGN LOADS, MATERIALS AND SPECIFICATIONS

1. DESIGN LOADING:	HL-93
2. DESIGN SPEED:	30 MPH
3. DESIGN METHOD:	LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD)
4. SPECIFICATIONS:	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 10TH EDITION. NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2016 WITH CURRENT ADDITIONS AND MODIFICATIONS AS OF THE BID OPENING DATE.
5. FOUNDATION DATA:	FOUR-SIDED BOX CULVERT ON STRUCTURAL FILL ON UNDISTURBED SOIL WITH A NOMINAL BEARING RESISTANCE OF 3.5 TSF IN COMBINATION WITH A RESISTANCE FACTOR OF 0.45.
6. REINFORCING STEEL:	AASHTO M 284 (ASTM A775) GRADE 60 EPOXY COATED (BOX CULVERT, HEADWALLS, CUTOFF WALLS, AND WINGWALLS)
7. CONCRETE:	PRECAST CONCRETE BOX CULVERT AND HEADWALLS: ITEM 529.002, PRECAST CONCRETE BOX CULVERT 5,000 PSI (AT 28 DAYS) (CLASS AAA) CUTOFF WALLS: ITEM 529.002, PRECAST CONCRETE BOX CULVERT 3,000 PSI (AT 28 DAYS) (CLASS B) WINGWALLS: ITEM 592.3, CONCRETE FACED RETAINING WALL SYSTEM 5,000 PSI (AT 28 DAYS) (CLASS AAA) WINGWALL FOOTINGS: ITEM 592.3, CONCRETE FACED RETAINING WALL SYSTEM 3,000 PSI (AT 28 DAYS) (CLASS B)

UTILITY COORDINATION

- OVERHEAD UTILITIES ARE PRESENT WITHIN THE PROJECT SITE, AND WILL BE DEENERGIZED FOR THE SPAN DIRECTLY OVER THE BOX CULVERT FOR A MAXIMUM OF 2 DAYS. THE CONTRACTOR SHALL BE FAMILIAR AND TAKE NECESSARY PRECAUTIONS WITH THESE UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE TEMPORARY RELOCATIONS; SHIELDING NECESSARY FOR EQUIPMENT MOBILIZATION (SUCH AS CRANE TO INSTALL THE PRECAST COMPONENTS) AND TEMPORARY DISCONNECTION OF POWER WITH THE UTILITY OWNERS. ALL COST FOR THIS COORDINATION SHALL BE INCLUDED IN ITEM 692, MOBILIZATION.

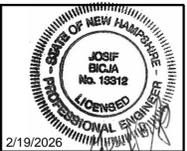
OVERHEAD UTILITY OWNER INFORMATION:
EVERSOURCE
CONTACT NAME: KONRAD RYBA
PHONE: (508) 935-1706

STORMWATER POLLUTION PREVENTION NOTES

- THE EROSION AND SEDIMENT CONTROLS DETAILED IN THESE PLANS ARE NOT INTENDED TO DICTATE CONSTRUCTION MEANS AND METHODS, NOR THE SPECIFIC EROSION AND SEDIMENT CONTROLS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL SUBMIT ITEM 645.7, STORMWATER POLLUTION PREVENTION PLAN (SWPPP), FOR REVIEW AND APPROVAL TO THE ENGINEER. UPON APPROVAL BY THE ENGINEER, THE SWPPP WILL BE SENT TO NHDES FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK IF ANY OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES VARY FROM THOSE SHOWN IN THESE PLANS.
- THE EROSION AND SEDIMENT CONTROL MEASURES DETAILED ON THESE PLANS ARE BASED ON THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION, DECEMBER 2008.
- ALL STORMWATER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED WITHIN THE TEMPORARY AND PERMANENT EASEMENT AREAS SHOWN ON THE EASEMENT PLAN.
- FOR ANY WORK ASSOCIATED WITH ITEM 699, MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL, DETAILED ESTIMATES FOR THE WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF THE WORK.
- PERFORM ALL WORK DURING LOW FLOW PERIODS. ALL WORK SHALL BE PERFORMED WITHIN THE IMPACT AREAS AS PERMITTED BY NHDES.
- ALL STORMWATER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN (ITEM 645.7). SILT FENCE SHALL BE INSTALLED AS SHOWN ON PAGE 96 AND THE DEWATERING BAG (IF USED AS PART OF THE SEDIMENTATION BASIN) SHALL BE INSTALLED AS SHOWN ON PAGE 149 OF NHDES STORMWATER MANUAL, VOLUME 3.

WATER DIVERSION NOTES

- THE CONTRACTOR SHALL SUBMIT A PLAN ILLUSTRATING THE METHOD OF WATER DIVERSION WITH THE DESIGN CALCULATIONS TO ENGINEER AND NHDES. THE SUGGESTED CONSTRUCTION SEQUENCING APPROACH MAY BE UTILIZED SUBJECT TO THE CONTRACTOR VERIFYING THIS METHOD IS ACCURATE AND ACKNOWLEDGING IN WRITING THAT THIS IS THE CASE. THE ENGINEER AND TOWN OF GOFFSTOWN ASSUME NO RESPONSIBILITY FOR THE ADEQUACY OF THE CONTRACTOR'S WATER DIVERSION METHODS OR PLAN. MEASURES SUCH AS CLEAN STONE FILL MAY BE PROVIDED AT THE INLET AND OUTLET ENDS TO PROTECT AGAINST EROSION, SCOUR, AND SILTATION OF HARDY BROOK. WATER DIVERSION STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE THE STORM EVENT DISCHARGE AS DETERMINED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. ALL COSTS FOR INSTALLATION, MAINTENANCE AND REMOVAL OF THE WATER DIVERSION STRUCTURE WILL BE PAID FOR UNDER ITEM 503.101, WATER DIVERSION STRUCTURE.
- THESE PLANS ASSUME TEMPORARY BYPASS PUMP SYSTEM IS TO BE INSTALLED BY THE CONTRACTOR TO BE CAPABLE OF PUMPING THE STORM EVENT DISCHARGE AS DETERMINED BY THE CONTRACTOR. PUMP INTAKES(S) SHALL BE POSITIONED ABOVE THE STREAM BED TO REDUCE SEDIMENT TRANSPORT AND INSTALLED WITH SCREENS TO PREVENT AQUATIC ORGANISM DISTURBANCE. A BACKUP PUMP SHALL BE INSTALLED, AT MINIMUM, AT THE MAIN CHANNEL PUMP LOCATION TO PREVENT CHANNEL FLOW THROUGH THE CONSTRUCTION SITE IN THE EVENT OF A PUMP FAILURE. PUMPING SHALL BE CONTINUOUS DURING IN-STREAM WORK. PUMP SYSTEM MUST REMAIN OPERATIONAL DURING NON-WORK HOURS AND PERIODS OF THE DAY WHEN IN-STREAM WORK IS NOT ACTIVE. COSTS FOR THE PUMPING SYSTEM INCLUDE INSTALLATION, OPERATION, MAINTENANCE, AND DESIGN AND SHALL BE INCLUDED IN ITEM 503.101. CALCULATIONS FOR THE PROPOSED SEDIMENTATION BASINS AS WELL AS LAYOUT AND DETAILING SHALL BE INCLUDED IN THE SWPP.
- DEWATERING SHALL BE REQUIRED IN THE CHANNEL TO CONTROL THE WATER INFLOW AND ADEQUATELY DEWATER THE CHANNEL EXCAVATION. SUMP PUMPING AREAS AROUND THE ENTIRE PERIMETER MAY BE REQUIRED TO ADEQUATELY CONTROL THE GROUNDWATER WITHIN THE EXCAVATION AREAS. DEWATERING SHALL BE CONTINUOUS UNTIL THE FOOTINGS, CUTOFF WALLS AND BOX CULVERT ARE CONSTRUCTED. THE PRECAST CONCRETE BOX CULVERT SHALL BE BACKFILLED EVENLY ON BOTH SIDES TO THE ELEVATIONS OF THE SURROUNDING WATER TABLE. ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN ITEM 503.101, WATER DIVERSION STRUCTURE.
- WATER PUMPED FROM DEWATERING LOCATIONS SHALL BE FILTERED ADEQUATELY TO REMOVE FINE MATERIALS PRIOR TO RETURNING THE WATER TO HARDY BROOK. ALL COSTS FOR CONSTRUCTION AND MAINTENANCE OF SEDIMENTATION BASIN OR OTHER METHODS TO CONTROL WATER POLLUTION SHALL BE INCLUDED IN ITEM 645.0002, SEDIMENTATION BASIN. ACTUAL LOCATION OF SEDIMENTATION BASIN TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.



2/19/2026

REV.	DESCRIPTION	DRAWN BY	CHECKED BY	DATE

DESIGNED H. LAUZON	DRAWN T. GELINAS	CHECKED J. BICIA	NHDOT BRIDGE NO. N/A	DATE FEBRUARY 2026
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HOYLE TANNER

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GOFFSTOWN, NEW HAMPSHIRE	MONTELONA ROAD OVER HARDY BROOK	PROJECT NOTES
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PROJECT NO. 24.010001.02

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CONSTRUCTION SEQUENCE NOTES

1. INSTALL TEMPORARY EROSION CONTROL MEASURES AS DETAILED IN THE STORMWATER POLLUTION PREVENTION PLAN.
2. INSTALL APPROVED CONTRACTOR DETAILED WATER DIVERSION STRUCTURE AND BYPASS PUMP SYSTEM WITHIN THE WETLAND IMPACT AREAS SHOWN ON PLANS.
3. REMOVE ALL EXISTING ROADWAY MATERIALS AND SOIL ABOVE THE EXISTING CORRUGATED METAL PIPE AND REMOVE THE PIPE AND HEADWALLS.
4. EXCAVATE TO THE LIMITS AND ELEVATIONS AS SHOWN ON THE PLANS. CONSTRUCT NEW PRECAST CUTOFF WALLS, CONCRETE BOX CULVERT, WINGWALLS AND WATERPROOFING MEMBRANE.
5. BACKFILL BEHIND THE NEW PRECAST CONCRETE BOX CULVERT AND WINGWALLS. INSTALL RIPRAP AS SHOWN IN THE PLAN DETAILS.
6. REMOVE WATER DIVERSION STRUCTURES ALLOWING THE BROOK TO FLOW THROUGH THE NEW CULVERT OPENING.
7. COMPLETE ROADWAY RECONSTRUCTION.
8. RESTORE ALL DISTURBED AREAS TO PRECONSTRUCTION CONDITIONS WITH TURF ESTABLISHMENT AND SLOPE STABILIZATION.

FOUNDATION NOTES

1. ANY UNSUITABLE MATERIALS SUCH AS BOULDERS, ROOTS, ORGANIC SOILS, OR SILT/CLAY ENCOUNTERED AT THE PROPOSED BOTTOM OF EXCAVATION ELEVATION SHALL BE REMOVED AND REPLACED WITH ITEM 508., STRUCTURAL FILL AS REQUESTED BY THE ENGINEER.
2. FINAL EXCAVATIONS TO SUITABLE SUBGRADES SHALL BE PERFORMED USING A SMOOTH-BLADED EXCAVATOR BUCKET TO MINIMIZE DISTURBANCE TO THE EXISTING SUBGRADE.
3. PROTRUDING BOULDERS OR COBBLES ENCOUNTERED AT THE FINAL EXCAVATION DEPTH SHALL BE REMOVED OR SPLIT TO PROVIDE A LEVEL BEARING SURFACE.
4. ANY FOUNDATION MATERIALS WEAKENED AS A RESULT OF INSUFFICIENT CARE WHILE MAINTAINING A DEWATERED CONDITION, SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL AT THE CONTRACTOR'S EXPENSE.
5. ALL FOOTING CONCRETE SHALL BE PLACED IN THE DRY.

PRECAST CONCRETE BOX CULVERT NOTES

1. ITEM 529.002 PRECAST CONCRETE BOX CULVERT SHALL CONSIST OF THE DESIGN, FABRICATION, AND ERECTION OF THE PRECAST CONCRETE BOX CULVERT UNITS, HEADWALLS, AND APPURTENANCES. THE PRECAST CONCRETE BOX CULVERT SHALL HAVE AN OUT-TO-OUT DIMENSION OF 55'-0" WITH A 12'-0" CLEAR SPAN AND 5'-0" RISE.
2. SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO HOYLE, TANNER & ASSOCIATES, INC FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW THE JOINT DETAILS, REINFORCEMENT SIZE AND LOCATION, CONCRETE HEADWALLS AND CUT OFF WALLS. ALL WORK SHALL CONFORM TO SPECIAL PROVISION FOR ITEM 529.002.
3. THE CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF THE APPROVED SHOP DRAWINGS TO THE ENGINEER.
4. EPOXY COATED REINFORCING CONFORMING TO AASHTO M284 SHALL BE USED FOR THE CONCRETE HEADWALLS, CUTOFF WALLS AS WELL AS THE ENTIRE BOX CULVERT.
5. REINFORCEMENT OF THE PRECAST UNITS SHALL HAVE A 2" MINIMUM CLEAR COVER IN THE TOP FACE OF TOP SLAB, BOTTOM FACE OF BOTTOM SLAB, AND INSIDE FACE OF WALLS. ALL OTHER REINFORCEMENT IN THE PRECAST UNITS SHALL HAVE A 1½" MINIMUM CLEAR COVER.
6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾" EXCEPT AS NOTED.
7. THE PRECAST BOX CULVERT AND HEADWALLS SHALL BE TREATED WITH ITEM 534.3, WATER REPELLENT (SILANE/SILOXANE), AS SHOWN ON THE CONTRACT DOCUMENTS.
8. JOINTS BETWEEN ABUTTING PRECAST UNITS SHALL BE WATERTIGHT AND MECHANICALLY CONNECTED. SEE DETAIL ON SHEET 16 FOR ADDITIONAL INFORMATION.
9. MEMBRANED SURFACES TO BE BACKFILLED AGAINST SHALL BE PROTECTED BY A PROTECTION BOARD. THE PROTECTION BOARD SHALL BE SEALTIGHT PC-2 MANUFACTURED BY W.R. MEADOWS OR APPROVED EQUAL AND AS SHOWN ON THE NHDOT QUALIFIED PRODUCTS LIST AND SUBSIDIARY TO THE APPROPRIATE 538 PAY ITEM. THE USE OF CLOSED-CELL EXTRUDED POLYSTYRENE BOARD (RIGID INSULATION) IS NOT ALLOWED FOR THIS PROJECT
10. THE QUALITY OF MATERIALS, THE PROCESS OF MANUFACTURE, AND THE PRECAST SECTIONS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER. FABRICATION SHALL NOT BEGIN UNTIL WRITTEN APPROVAL OF THE SUBMITTED SHOP DRAWINGS HAS BEEN RECEIVED FROM THE ENGINEER. PROVIDE TO HOYLE, TANNER & ASSOCIATES, INC. A MINIMUM OF FOURTEEN (14) DAYS NOTICE PRIOR TO THE START OF FABRICATION, AND A DETAILED CASTING SCHEDULE.
11. ALL MARKINGS ON VISIBLE SURFACES (INSIDE FACE, ENDS, ETC.) OF THE PRECAST CONCRETE BOX CULVERT SHALL BE REMOVED PRIOR TO INSTALLATION AT THE SITE.
12. A CORROSION INHIBITOR ADMIXTURE MEETING THE REQUIREMENTS OF 520, PARAGRAPH 2.3.3.2 SHALL BE INCLUDED IN THE CONCRETE FOR THE RIGID FRAME AND HEADWALLS. THE ADMIXTURE SHALL BE FROM THE NHDOT QUALIFIED PRODUCTS LIST. THE DOSAGE SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS FOR A 75 YEAR SERVICE LIFE.
13. NO LIFTING HOLES ALLOWED ON HEADWALLS. MUST USE ANCHORING LIFTING DEVICES FOR ERECTION.

WINGWALL NOTES

1. SEE SPECIAL PROVISIONS OF ITEM 592.3 CONCRETE FACED RETAINING WALL SYSTEM FOR ACCEPTABLE MANUFACTURED WALL SYSTEMS. THE RETAINING WALL FACES SHALL BE VERTICAL; BATTERED VERTICAL FRONT FACES WILL NOT BE ACCEPTED. NO GEOGRID WILL BE ALLOWED WITHIN THE PENETRATION DEPTH OF GUARDRAIL POSTS.
2. SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO HOYLE, TANNER & ASSOCIATES, INC FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL BE SEALED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. THE SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL INCLUDE ALL INFORMATION LISTED IN THE SPECIAL PROVISION FOR THIS ITEM.
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PERFORM ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE OF THE CONCRETE FACED RETAINING WALL SYSTEM IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS.
4. ITEM 592.3 CONCRETE FACED RETAINING WALL SYSTEM SHALL INCLUDE ALL EXCAVATION, BACKFILL, PRECAST CONCRETE MODULAR (PCM) UNITS, WINGWALL ANCHORS/STEMS/REINFORCING, STRUCTURAL FILL, CONCRETE FOOTINGS AND JOINT MATERIALS, COMPLETE AND IN PLACE.
5. EPOXY COATED REINFORCING CONFORMING TO AASHTO M284 SHALL BE USED FOR THE WINGWALLS.
6. THE CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF THE APPROVED SHOP DRAWINGS TO THE ENGINEER.
7. ALL CAULKING AND JOINT SEALERS SHALL BE INSTALLED AFTER BACKFILLING AND PRIOR TO APPLICATION OF THE WATER REPELLENT. CONCRETE SURFACES SHALL HAVE CURED A MINIMUM OF 14 DAYS AND SHALL BE DRY PRIOR TO THE APPLICATION OF WATER REPELLENT. MINIMUM SUBSTRATE AND AMBIENT APPLICATION TEMPERATURES SHALL BE AS NOTED ON THE NHDOT QUALIFIED PRODUCTS LIST FOR THE PRODUCT USED.
8. ALL SURFACES TO BE SEALED WITH WATER REPELLENT MUST BE THOROUGHLY CLEANED AS NEEDED BY POWER WASHING SURFACE CLEAN OF DUST AND CONSTRUCTION DIRT. THE SURFACE SHALL BE ALLOWED TO DRY PRIOR TO APPLICATION OF WATER REPELLENT.
9. EXPOSED FACES OF THE PCM UNITS TO A DEPTH OF 1'-0" BELOW FINISHED GRADE SHALL BE TREATED WITH ITEM 534.3, WATER REPELLENT (SILANE/SILOXANE).
10. THE BOTTOM ELEVATION OF THE PCM UNITS SHOWN IN THE CONTRACT DRAWINGS SHALL BE HELD FOR THE ENTIRE WIDTH OF THE UNIT. THE USE OF CUT OFF WALLS IS NOT ALLOWED.

PAVEMENT NOTES

1. ALL PAVING OPERATIONS SHALL BE PERFORMED BY A SUBCONTRACTOR THAT IS LISTED ON THE NHDOT PREQUALIFIED CONTRACTORS LIST IN THE CATEGORY OF PAVING.
2. THE BITUMINOUS MIXTURE SHALL BE THOROUGHLY COMPACTED BY ROLLING. THE INITIAL ROLLING SHALL BE DONE WITH A STATIC OR VIBRATORY STEEL-DRUM ROLLER. INTERMEDIATE ROLLING SHALL BE DONE BY A PNEUMATIC-TIRED ROLLER. FINAL ROLLING SHALL BE DONE WITH A STATIC-DRUM ROLLER. THE MINIMUM WEIGHT OF STATIC ROLLER SHALL BE 8 TONS.
3. SUBMIT PAVEMENT MIX DESIGN TO ENGINEER FOR APPROVAL PRIOR TO PAVING. SEE SECTION 401 OF THE NHDOT STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. THE GRADE OF ASPHALT CEMENT SHALL BE PG 64-28.

SUMMARY OF QUANTITIES

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
202.42	REMOVAL OF EXISTING PIPE OVER 24" DIAMETER	LF	41
203.1	COMMON EXCAVATION	CY	100
203.6	EMBANKMENT -IN-PLACE (F)	CY	60
207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	50
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	175
214	FINE GRADING	U	1
304.3	CRUSHED GRAVEL (F)	CY	70
304.31	CRUSHED GRAVEL FOR SHIMMING	CY	30
304.99	STREAMBED SIMULATION MATERIAL	CY	50
403.11023	HBP-3/4" BINDER MIX, MACHINE METHOD	TON	80
403.11043	HBP-1/2" SURFACE MIX, MACHINE METHOD	TON	40
403.16	PAVEMENT JOINT ADHESIVE	LF	310
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	14
417	COLD PLANING BITUMINOUS SURFACES	SY	32
503.101	WATER DIVERSION STRUCTURE	U	1
504.1	COMMON BRIDGE EXCAVATION (F)	CY	410
504.2	ROCK BRIDGE EXCAVATION	CY	50
508	STRUCTURAL FILL	CY	65
529.002	PRECAST CONCRETE BOX CULVERT (BRIDGE)	U	1
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	4
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	82
538.5	BARRIER MEMBRANE, HEAT WELDED (F)	SY	93
562.1	SILICONE JOINT SEALANT (F)	LF	40
583.2	RIPRAP CLASS II	CY	40
583.3	RIPRAP, CLASS III	CY	60
592.3	CONCRETE FACED RETAINING WALL SYSTEM	SF	335
593.411	GEOTEXTILE; PERM CONTROL CL.1, NON-WOVEN	SY	230
603.36112	12" ALUMINIZED STEEL END SECTION	EA	1
603.82212	12" PE PIPE (TYPE S)	LF	50
622.1	STEEL WITNESS MARKERS	EA	1
628.2	SAWED BITUMINOUS PAVEMENT	LF	50
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	640
645.0002	SEDIMENTATION BASIN	U	1
645.44	TEMPORARY SLOPE MATTING TYPE D (WILDLIFE FRIENDLY)	SY	220
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	300
645.531	SILT FENCE	LF	300
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1
645.719	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	EA	20
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM (F)	SY	390
692	MOBILIZATION	U	1
699	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	1000



2/19/2026	DATE				
	CHECKED BY				
	DRAWN BY				
	DESCRIPTION				
	REV.				
DESIGNED H. LAUZON	DRAWN T. GELINAS	CHECKED J. BICJA	NHDOT BRIDGE NO. N/A	DATE FEBRUARY 2026	

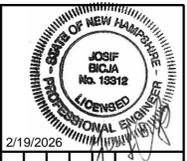


GOFFSTOWN, NEW HAMPSHIRE
 MONTELONA ROAD OVER HARDY BROOK
 PROJECT NOTES AND SUMMARY OF QUANTITIES

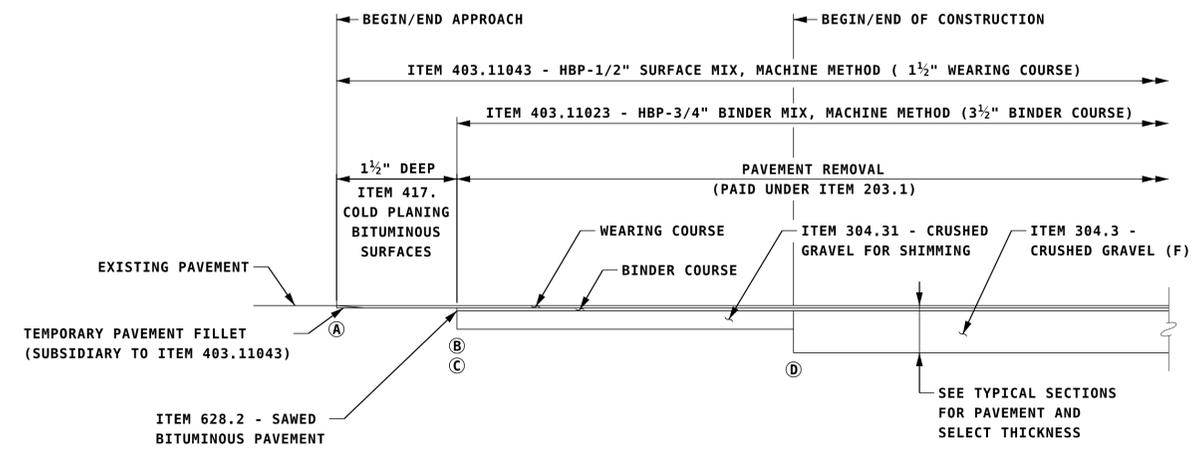
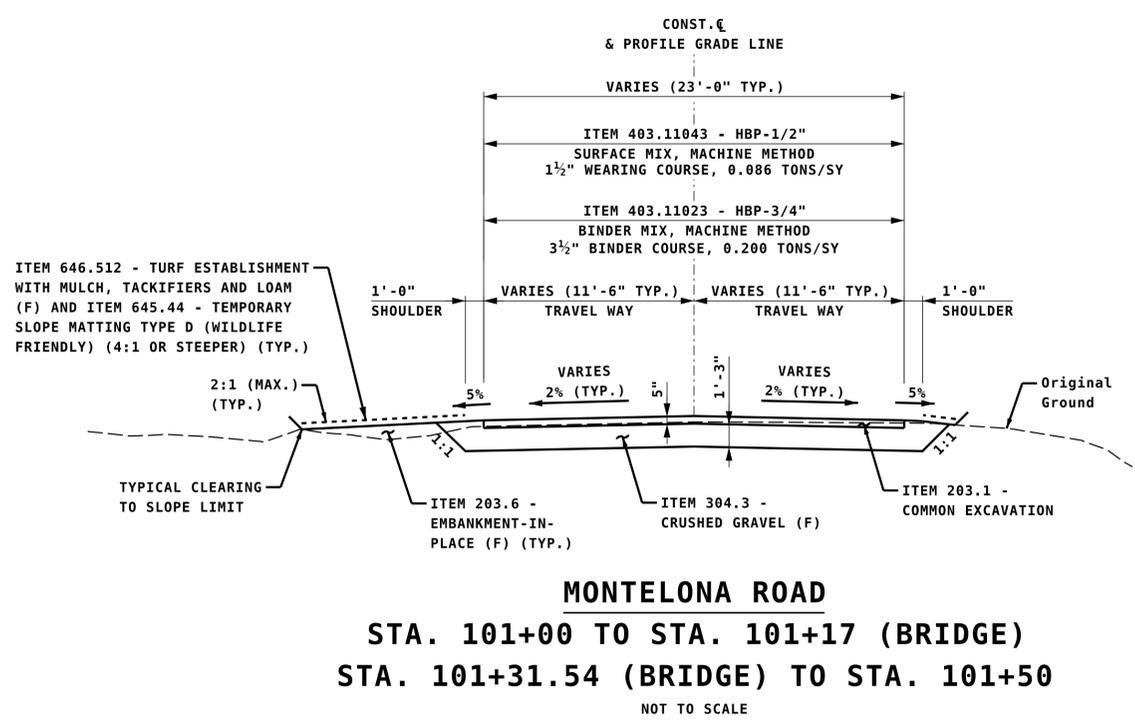
PROJECT NO. 24.010001.02
 SHEET NO.
5
 OF 18

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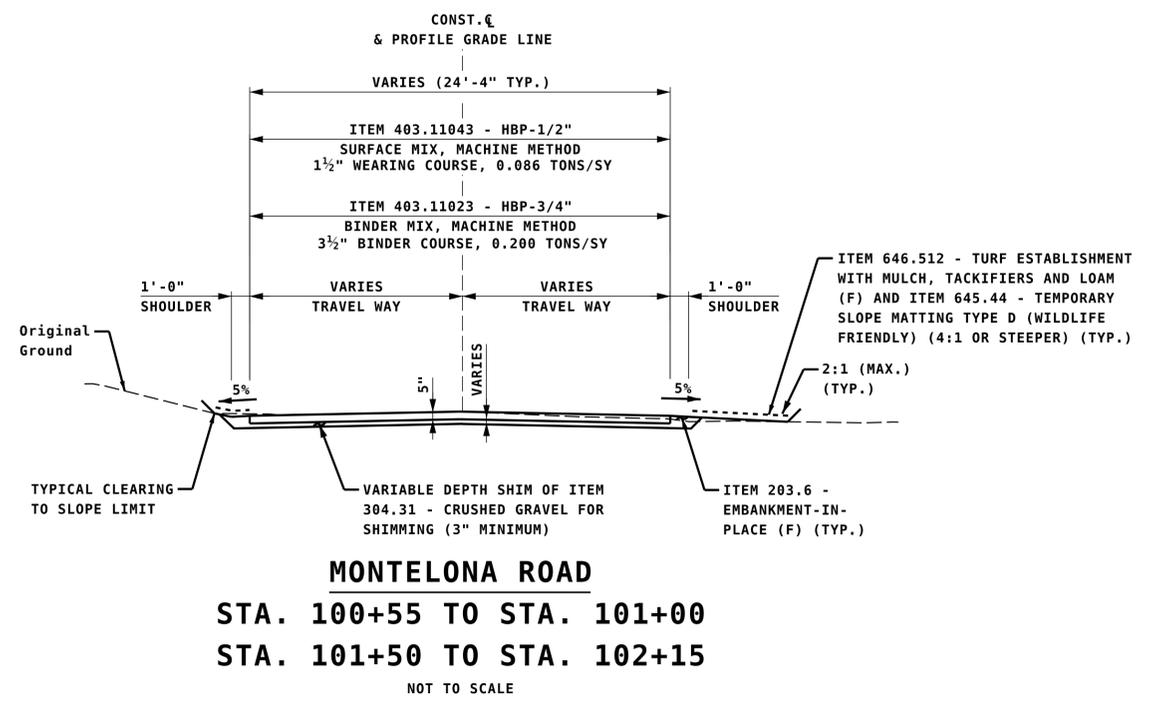
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LOCATION	STATION			
	WEARING	BINDER	SHIM	CRUSHED GRAVEL
MONTELONA ROAD - BEGIN APPROACH	100+55	100+60	100+60	101+00
MONTELONA ROAD - END APPROACH	102+15	102+10	102+10	101+50



- NOTES**
1. COMPACT SUBGRADE (PAID AS ITEM 214.) PRIOR TO PLACING PAVEMENT COURSES.
 2. ITEM 403.16 - PAVEMENT JOINT ADHESIVE SHALL BE APPLIED TO ALL LONGITUDINAL JOINTS ASSOCIATED WITH THE HOT BITUMINOUS PAVEMENT COURSES AND BUTT JOINTS AT EXISTING PAVEMENT.
 3. ITEM 410.22 - ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN BITUMINOUS PAVEMENT COURSES.

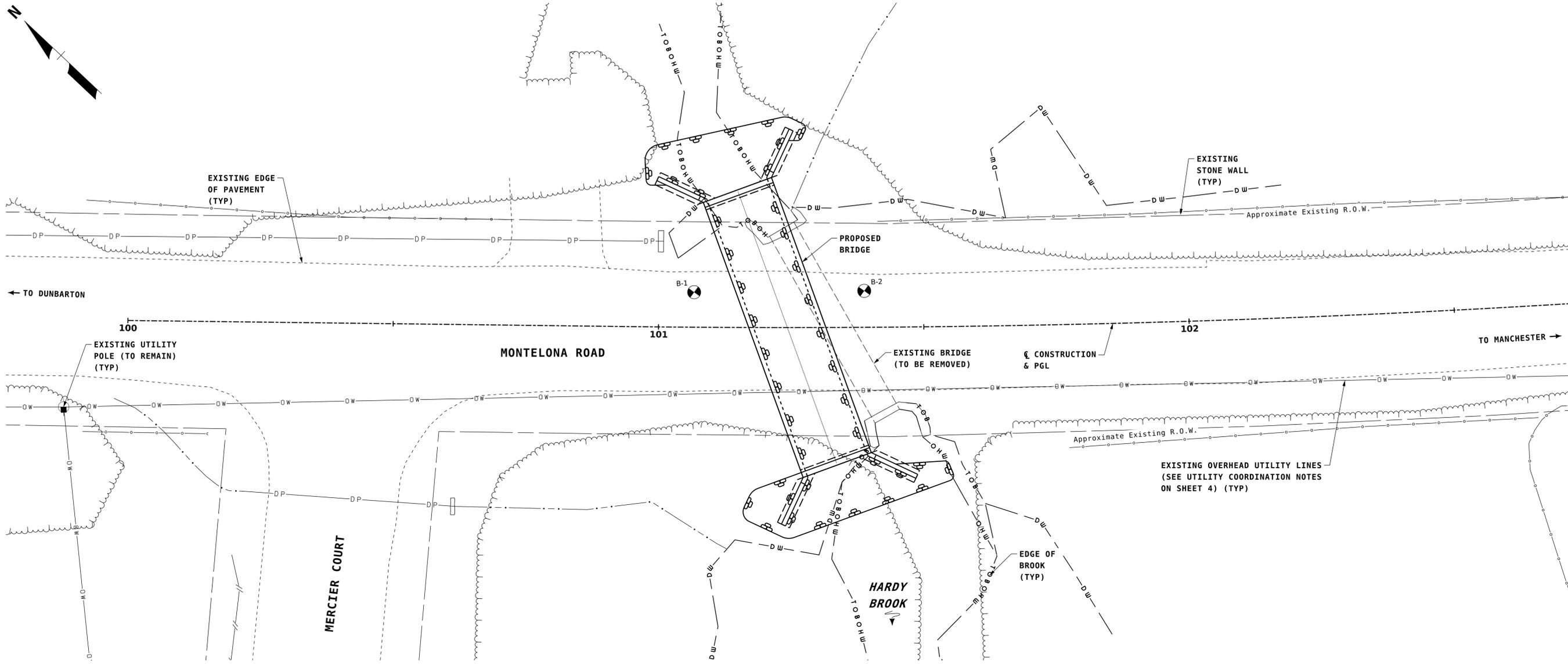
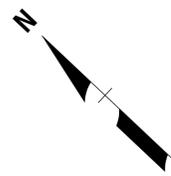


DATE	CHECKED BY	DRAWN BY	DESCRIPTION	REV.	DESIGNED	DRAWN	CHECKED	NOTED	DATE
2/19/2026					H. LAUZON	T. GELINAS	J. BICJA	N/A	FEBRUARY 2026

HOYLE TANNER
 150 Dow Street • Manchester, NH 03101
 (603) 669-5555 • www.foyletanner.com

GOFFSTOWN, NEW HAMPSHIRE
MONTELONA ROAD OVER HARDY BROOK
ROADWAY TYPICAL SECTION AND DETAILS
PROJECT NO. 24.010001.02
SHEET NO.
6
OF 18

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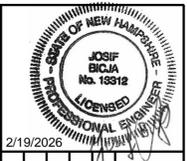


BORING LOCATION PLAN
SCALE: 1" = 10'

BORING LOCATIONS TABLE				
NO.	STATION	OFFSET	NORTHING	EASTING
B-1	101+07	7' LT	200273	1023991
B-2	101+39	7' LT	200250	1024014

BORING NOTES

- BORINGS INDICATED THIS WERE MADE BY NEW ENGLAND BORING CONTRACTORS ON SEPTEMBER 26, 2025. REFER TO THE TEST BORING LOGS FOR DRILLER AND SAMPLING DATA INFORMATION.
- BORINGS ARE FOR DESIGN PURPOSES, SHOWING CONDITIONS AT BORING POINTS ONLY, AND DO NOT NECESSARILY INDICATE MATERIAL TO BE ENCOUNTERED DURING CONSTRUCTION.
- WATER ELEVATIONS INDICATED THIS WERE MEASURED AT THE TIME OF EXPLORATION. THE WATER LEVELS ENCOUNTERED DURING CONSTRUCTION MAY VARY CONSIDERABLY, DUE TO PREVAILING CLIMATE, RAINFALL OR OTHER FACTORS.
- THE SURFACE ELEVATION, IF INDICATED ON EACH BORING LOG, IS THE ELEVATION OF THE EXISTING GROUND AT THE TIME THE BORING WAS TAKEN.



REV.	DESCRIPTION	DRAWN BY	CHECKED BY	DATE

DESIGNED: H. LAUZON
DRAWN: T. GELINAS
CHECKED: J. BICJA
PROJECT NO.: 24.010001.02
DATE: FEBRUARY 2026

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GOFFSTOWN, NEW HAMPSHIRE

MONTELONA ROAD OVER HARDY BROOK

BORING LOCATION PLAN

PROJECT NO. 24.010001.02

SHEET NO.

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(603) 437-1610		New England Boring Contractors		Fax: (603) 437-0034	
		P.O. Box 165			
		Derry, NH 03038			
		E-Mail: nebc@neboring.com			
Boring # B-1	Project: Hoyle Tanner		Project # 198952		
Project Address: 5 Montelona Road		City: Goffstown	State: NH	Zip: 03045	
Date Start: 9/26/2025		Date End: 9/26/2025		Location: See Plan	
Casing Type & size: HW 4"ID		Sampler: SS 1 3/8	Core Barrel: NQ		
Hammer wt.: 300lb.		Hammer wt.: 140lb.	Size: 1 7/8 dia		
Hammer fall: 30".		Hammer fall: 30".			
GROUND WATER OBSERVATION					
Date: 9/26/25	Depth:		Casing:		Stabilization Period
DP	S#	DEPTH	PEN	REC	BLOWS/6"
					S/C
SAMPLE DESCRIPTION					
-	S-1	0'-2'	24"	14"	7-8-7-8
-					
-					
-	S-2	4'-6'	24"	12"	2-2-5-15
5'0"					
-					
-					
-	S-3	9'-11'	24"	14"	17-9-21-27
10'0"					
-					
-					
-					
15'0"					
-					
-					
-					
20'0"					
-					
-					
-					
25'0"					
-					
-					
-					
30'0"					
Driller: Mike Matarozzo		Helpers: Corey Culligan		Inspector:	
Remarks:					
S/#: Sample		PEN: Penetration		REC: Recovery	
				S/C: Strata Change	

APPROXIMATE
EXISTING GROUND
EL 435.6±

BOTTOM OF
BOX CULVERT
(INLET)
EL 428.22

BOTTOM OF
BOX CULVERT
(OUTLET)
EL 427.07

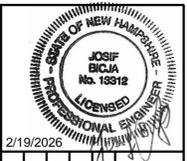
APPROXIMATE
EXISTING GROUND
EL 435.7±

BOTTOM OF
BOX CULVERT
(INLET)
EL 428.22

BOTTOM OF
BOX CULVERT
(OUTLET)
EL 427.07

(603) 437-1610		New England Boring Contractors		Fax: (603) 437-0034	
		P.O. Box 165			
		Derry, NH 03038			
		E-Mail: nebc@neboring.com			
Boring # B-2	Project: Hoyle Tanner		Project # 198952		
Project Address: 5 Montelona Road		City: Goffstown	State: NH	Zip: 03045	
Date Start: 9/26/2025		Date End: 9/26/2025		Location: See Plan	
Casing Type & size: HW 4"ID		Sampler: SS 1 3/8	Core Barrel: NQ		
Hammer wt.: 300lb.		Hammer wt.: 140lb.	Size: 1 7/8 dia		
Hammer fall: 30".		Hammer fall: 30".			
GROUND WATER OBSERVATION					
Date: 9/26/25	Depth:		Casing:		Stabilization Period
DP	S#	DEPTH	PEN	REC	BLOWS/6"
					S/C
SAMPLE DESCRIPTION					
-	S-1	0'-2'	24"	10"	14-14-15-39
-					
-					
-	S-2	5'-7'	24"	4"	38-32-13-16
5'0"					
-					
-					
-	S-3	10'-12'	6"	5"	100/6"
10'0"					
-					
-					
-					
15'0"					
-					
-					
-					
20'0"					
-					
-					
-					
25'0"					
-					
-					
-					
30'0"					
Driller: Mike Matarozzo		Helpers: Corey Culligan		Inspector:	
Remarks:					
S/#: Sample		PEN: Penetration		REC: Recovery	
				S/C: Strata Change	

BORING LOGS
NOT TO SCALE



DATE	CHECKED BY	DRAWN BY	DESCRIPTION	REV.

DESIGNED H. LAUZON	DRAWN T. GELINAS	CHECKED J. BIC/A	NOTED DATE	FEBRUARY 2026
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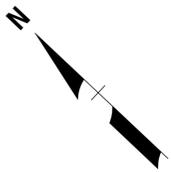
GOFFSTOWN, NEW HAMPSHIRE
MONTELONA ROAD OVER HARDY BROOK
BORING LOGS

PROJECT NO. 24.010001.02
SHEET NO.

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OF 18

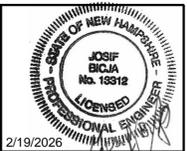
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CURVE NO. 1
 PI = 101+87.55
 R = 2420.00' LT
 L = 185.00'

TAX MAP 9, LOT 90-3
 DANIEL B. WHELAN
 283 EAST DUNBARTON ROAD
 GOFFSTOWN, NH 03045
 C.C.R.D. BOOK 8377, PAGE 1980



REV.	DESCRIPTION	DRAWN BY	CHECKED BY	DATE

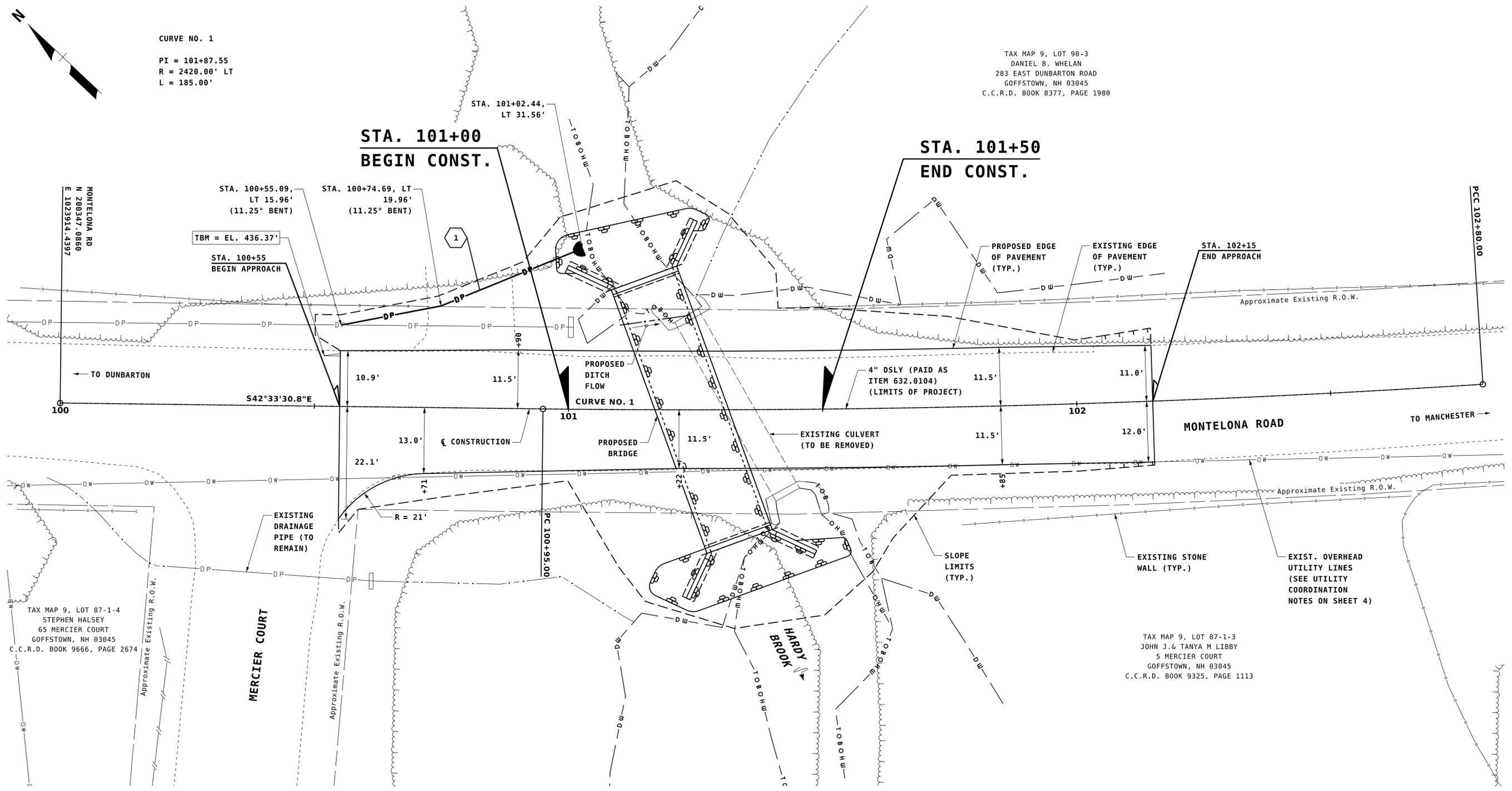
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DESIGNED H. LAUZON	DRAWN T. GELINAS	CHECKED J. BICJA	PROJECT NO. 24.010001.02
DATE FEBRUARY 2026			

HOYLE TANNER

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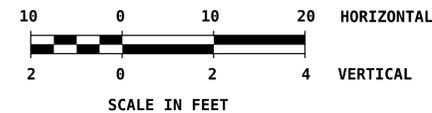
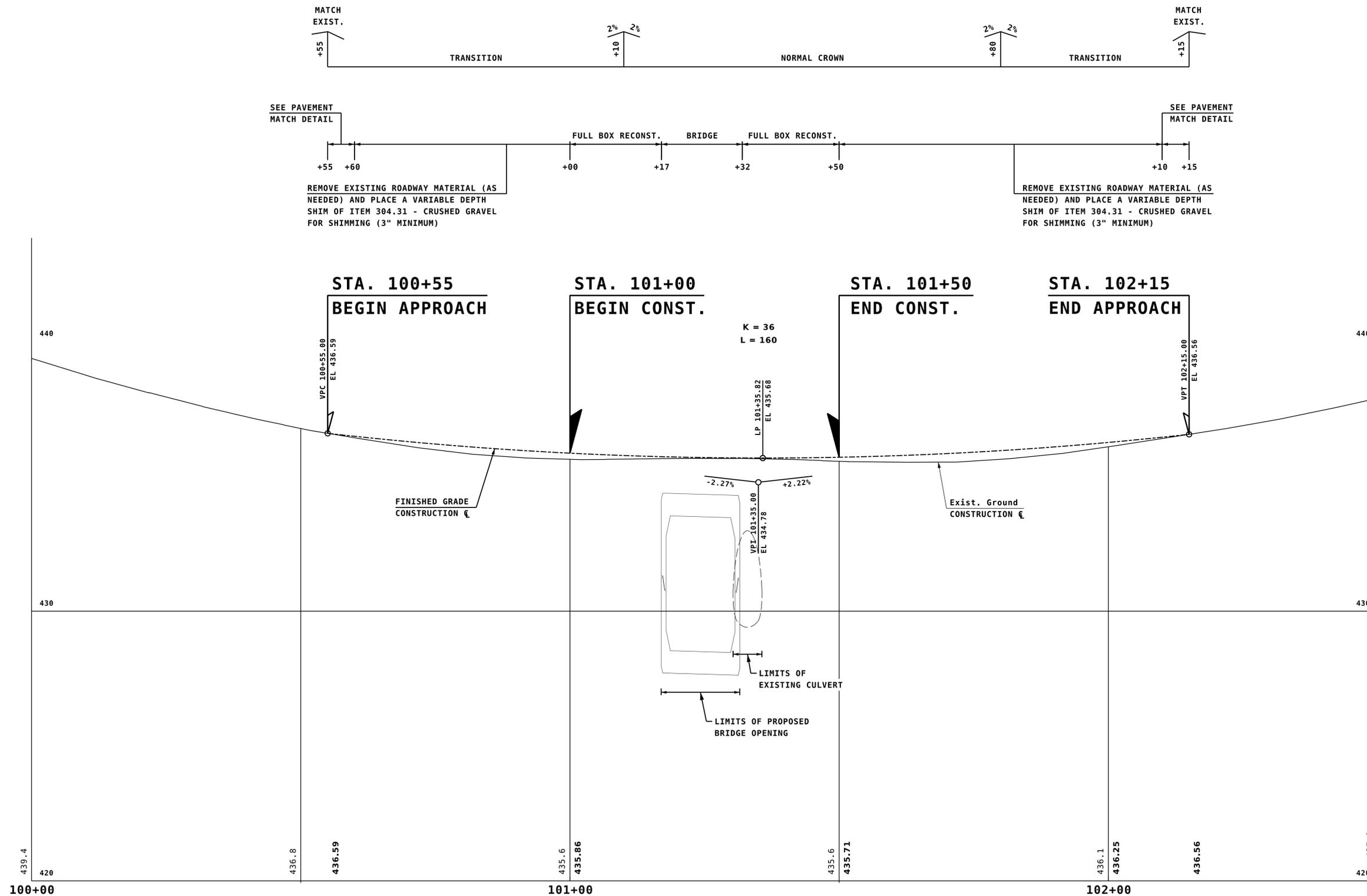
GOFFSTOWN, NEW HAMPSHIRE	PROJECT NO. 24.010001.02
MONTOLONA ROAD OVER HARDY BROOK	SHEET NO.
ROADWAY PLAN	9
	OF 18



- 1 STA. 100+55.09, LT. 15.96' TO STA. 101+00.83, LT. 16.10'
 REMOVE 46 LF x 12" HDPE PIPE (SUBSID. TO ITEM 603.82212)
 REMOVE CONCRETE HEADWALL (SUBSID. TO ITEM 603.82212)
- STA. 100+55.09, LT. 15.96' TO STA. 101+02.44, LT 31.56'
 CONST. 50 LF x 12" PE PIPE (TYPE S) W/ 2- 11.25
 DEGREE BENTS (ITEM 603.82212)
 CONST. ALUM. STEEL END SECTION (ITEM 603.36112)
 CONST. STEEL WITNESS MARKER @ OUTLET (ITEM 622.1)
 12" INV. OUT = MATCH EXIST. (FIELD VERIFY)
 12" INV. OUTLET = 431.50 (FIELD VERIFY)

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REV.	DESCRIPTION	DRAWN BY	CHECKED BY	DATE

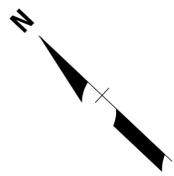
DESIGNED: H. LAUZON
 DRAWN: T. GELINAS
 CHECKED: J. BICJA
 NHDOT BRIDGE NO.: N/A
 DATE: N/A
 FEBRUARY 2026

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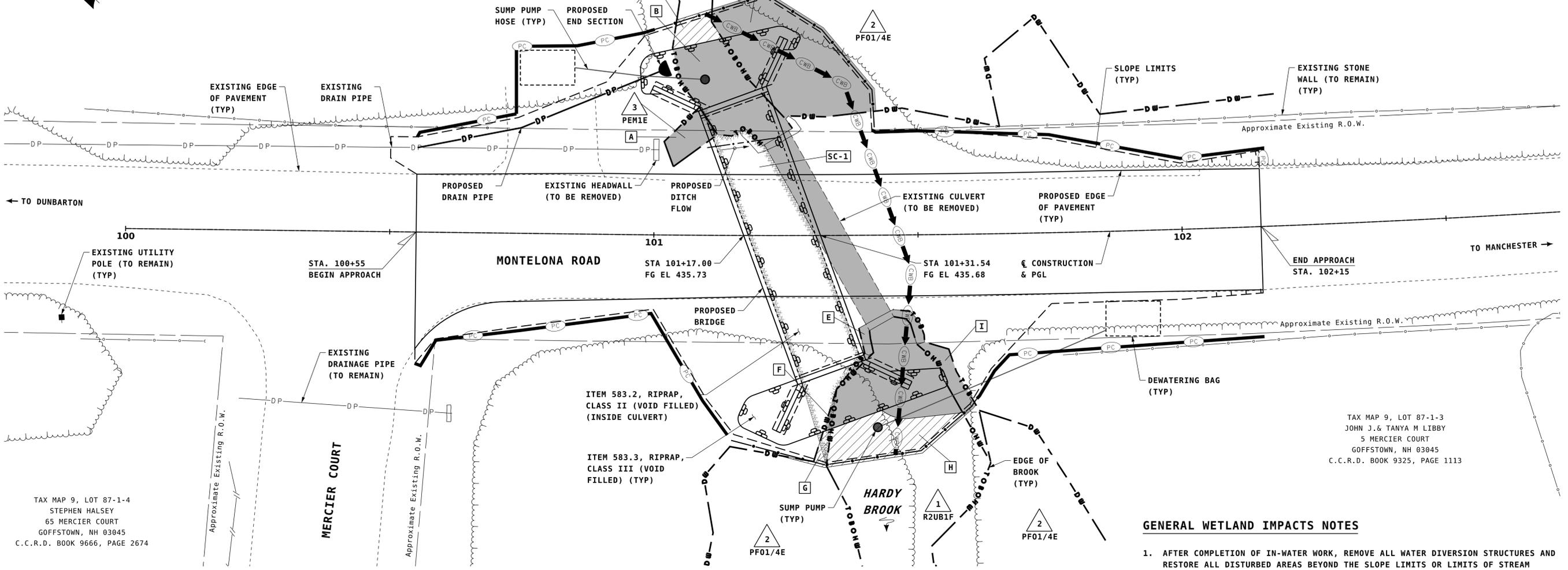


GOFFSTOWN, NEW HAMPSHIRE
 MONTELONA ROAD OVER HARDY BROOK
 ROADWAY PROFILE

PROJECT NO. 24.010001.02
 SHEET NO.
10
 OF 18



TAX MAP 9, LOT 90-3
DANIEL B. WHELAN
283 EAST DUNBARTON ROAD
GOFFSTOWN, NH 03045
C.C.R.D. BOOK 8377, PAGE 1980



TAX MAP 9, LOT 87-1-4
STEPHEN HALSEY
65 MERCIER COURT
GOFFSTOWN, NH 03045
C.C.R.D. BOOK 9666, PAGE 2674

TAX MAP 9, LOT 87-1-3
JOHN J. & TANYA M LIBBY
5 MERCIER COURT
GOFFSTOWN, NH 03045
C.C.R.D. BOOK 9325, PAGE 1113

WETLAND IMPACTS PLAN

SCALE: 1" = 10'

WETLAND IMPACTS				
SYMBOL	WETLAND DESIGNATION	IMPACT TYPE	AREA (SF)	LENGTH (LF)
A	PEM1E	PERMANENT WETLAND	53	-
B	R2UB1F	PERMANENT BED OF STREAM	728	82
C	R2UB1F	TEMPORARY BED OF STREAM	44	6
D	PF01/4E	PERMANENT WETLAND	442	-
E	BANK	PERMANENT BANK OF STREAM	14	6
F	PF01/4E	PERMANENT WETLAND	6	-
G	PF01/4E	TEMPORARY WETLAND	16	-
H	R2UB1F	TEMPORARY BED OF STREAM	169	4
I	BANK	PERMANENT BANK OF STREAM	61	24
STREAM CREATION/RESTORATION				
	IMPACT TYPE		AREA (SF)	LENGTH (LF)
SC-1	STREAM CREATION		605	52

SUMMARY OF IMPACTS
TOTAL NEW TEMPORARY IMPACTS = 229 SF / 10 LF
TOTAL NEW PERMANENT IMPACTS = 1304 SF / 112 LF

TOTAL IMPACTS = 1533 SF / 122 LF

TOTAL STREAM CREATION/RESTORATION = 605 SF / 52 LF

WETLAND CLASSIFICATION	
1 R2UB1F	RIVERINE, LOWER PERENNIAL FLOW REGIME, UNCONSOLIDATED BOTTOM, GRAVEL/COBBLE SUBSTRATE, SEMI-PERMANENTLY FLOODED
2 PF01/4E	PALUSTRINE, FORESTED, BROAD-LEAVED DECIDUOUS/NEEDLE-LEAVED CONIFEROUS VEGETATION, SEASONALLY FLOODED/SATURATED
3 PEM1E	PALUSTRINE, EMERGENT, PERSISTENT VEGETATION, SEASONALLY FLOODED/SATURATED

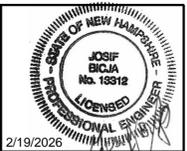
JOANNE THERIAULT, CERTIFIED WETLAND SCIENTIST #305, OF HOYLE, TANNER & ASSOCIATES, INC. PERFORMED THE WETLAND MAPPING ON JUNE 7, 2022 ACCORDING TO THE STANDARDS OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS.

LEGEND

- TEMPORARY IMPACTS
- PERMANENT IMPACTS
- STREAM CREATION/RESTORATION
- TOP OF BANK AND ORDINARY HIGH WATER
- TOP OF BANK
- ORDINARY HIGH WATER
- DELINEATED WETLANDS
- WATER DIVERSION STRUCTURE (ITEM 503.101)
- CLEAN WATER BYPASS
- PERIMETER CONTROL (SILT FENCE OR SILT SOCK)
- WETLAND DESIGNATION NUMBER
- CODE

GENERAL WETLAND IMPACTS NOTES

- AFTER COMPLETION OF IN-WATER WORK, REMOVE ALL WATER DIVERSION STRUCTURES AND RESTORE ALL DISTURBED AREAS BEYOND THE SLOPE LIMITS OR LIMITS OF STREAM RESTORATION TO PRE-CONSTRUCTION CONDITIONS.
- SHOULD CONTRACTOR REQUIRE EROSION AND SEDIMENT CONTROLS BEYOND THE LIMITS OF IMPACTS AS SHOWN ON THIS PLAN TO MEET CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMIT AMENDMENTS OR NEW PERMITS.
- CONTRACTOR MAY CHANGE LOCATION OF DEWATERING/STREAM BYPASS ONLY IN THE UPLAND AREAS AND SHALL NOT CHANGE IMPACTS TO WETLANDS/STREAM RESOURCES.
- CONTRACTOR SHALL RETAIN SEDIMENT ON-SITE AND IMPLEMENT THE FOLLOWING DEWATERING CONTROL PRACTICES:
 - TEMPORARY SEDIMENT BASINS SHALL BE SIZED TO RETAIN ON SITE, THE VOLUME OF A 2-YEAR 24-HOUR STORM EVENT FOR ANY AREA OF DISTURBANCE OR 3,600 CUBIC FEET OF STORMWATER RUNOFF PER ACRE OF DISTURBANCE, WHICHEVER IS GREATER.
 - CONSTRUCT AND STABILIZE DEWATERING INFILTRATION BASINS OR BAGS PRIOR TO ANY EXCAVATION THAT MAY REQUIRE DEWATERING.
 - TEMPORARY SEDIMENT BASINS SHALL BE PLACED AND STABILIZED AT LOCATIONS WHERE CONCENTRATED FLOW (CHANNELS AND PIPES) DISCHARGE TO THE SURROUNDING ENVIRONMENT FROM AREAS OF UNSTABILIZED EARTH DISTURBING ACTIVITIES.
 - SEDIMENT FROM THE DEWATERING INFILTRATION BASINS OR BAG SHALL BE DISPOSED OF PER NHDES REGULATIONS.
- OVERHEAD UTILITY LINES NOT SHOWN FOR CLARITY, SEE SITE PLAN FOR LOCATION OF OVERHEAD UTILITY LINES.
- PERIMETER CONTROL SHALL NOT BE PLACED OUTSIDE OF SLOPE LIMITS AND IS ONLY DEPICTED OUTSIDE OF SLOPE LIMITS FOR CLARITY.
- OHW AND TOB ARE THE SAME IN THIS LOCATION THUS ALL IMPACTS ARE TO BED OF STREAM, NOT BANK, WATERCOURSE LF OF IMPACTS CALCULATED FOR A PERENNIAL STREAM PER ENV-WT 407.03(C)(2) AS LEFT BANK + RIGHT BANK + CHANNEL ARE SHOWN AS BED OF STREAM IMPACTS ON THE APPLICATION FORM.



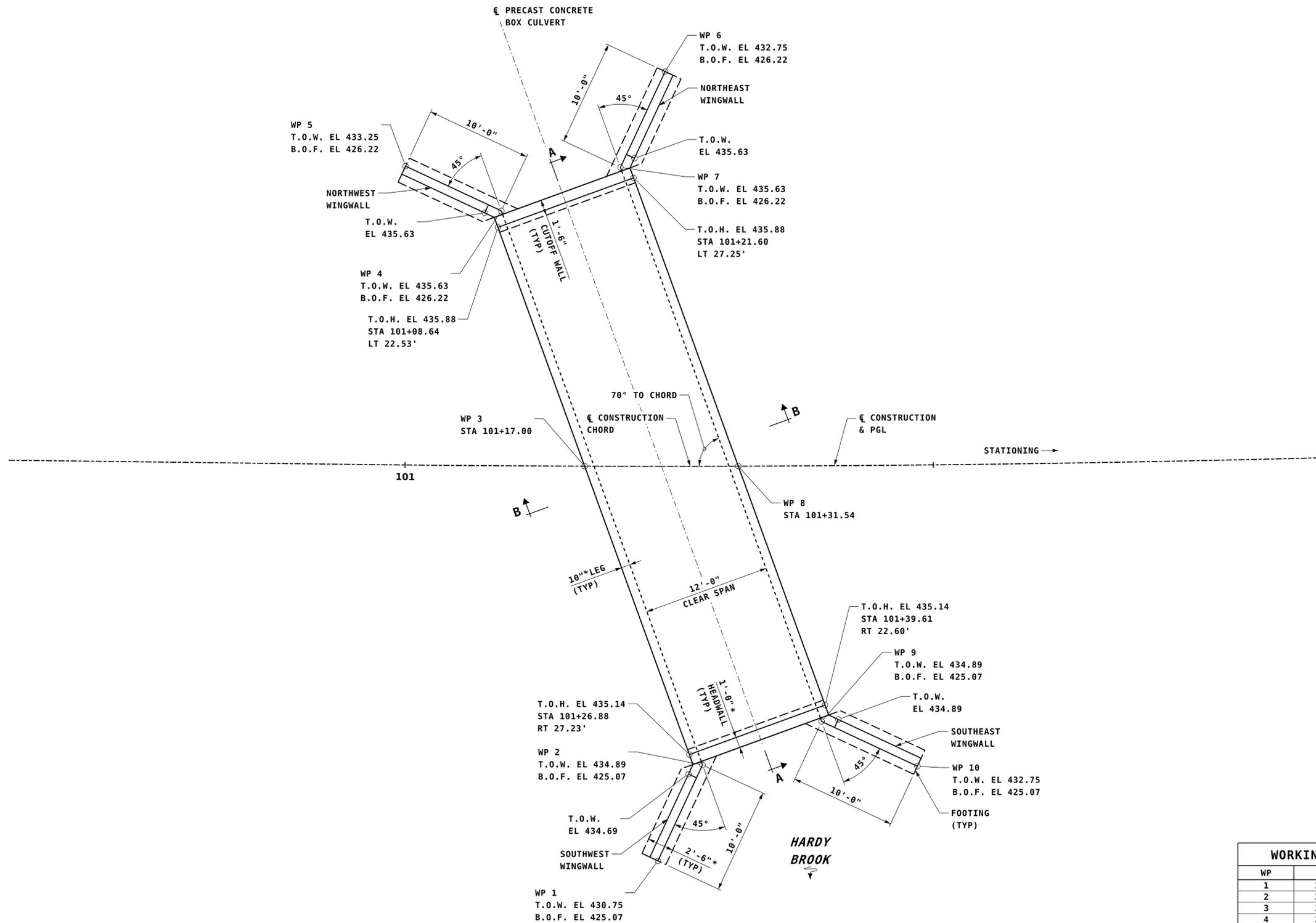
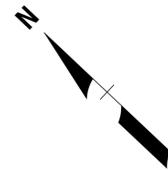
DATE	CHECKED BY	DRAWN BY	DESCRIPTION	REV.	DESIGNED	DRAWN	CHECKED	INCHUT BRIDGE NO.	DATE
2/19/2026					H. LAUZON	T. GELINAS	J. BIC/A	N/A	FEBRUARY 2026

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GOFFSTOWN, NEW HAMPSHIRE	MONTELONA ROAD OVER HARDY BROOK	WETLAND IMPACTS PLAN
PROJECT NO. 24.010001.02		
SHEET NO.		
12		
OF 18		

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* DIMENSIONS TO BE DESIGNED BY THE CONTRACTOR'S FABRICATOR. DIMENSIONS MAY CHANGE.

BRIDGE LAYOUT PLAN

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

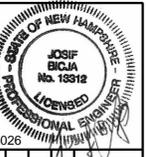
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2	200233.5116	1023980.7378
3	200260.9732	1023993.6454
4	200283.2427	1024005.8025
5	200292.7396	1024002.6706
6	200280.9737	1024026.0153
7	200277.8418	1024016.5184
8	200250.3802	1024003.6108
9	200228.1108	1023991.4537
10	200218.6139	1023994.5856

LEGEND

T.O.H. = TOP OF HEADWALL
 T.O.W. = TOP OF WINGWALL
 B.O.F. = BOTTOM OF FOOTING

NOTE

1. SEE SHEET 14 FOR SECTION A-A AND SHEET 15 FOR SECTION B-B.



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DRAWN	T. GELINAS
CHECKED	J. BICJA
PROJECT NO.	24.010001.02
DATE	FEBRUARY 2026



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GOFFSTOWN, NEW HAMPSHIRE

MONTELONA ROAD OVER HARDY BROOK

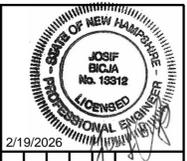
BRIDGE LAYOUT PLAN

PROJECT NO. 24.010001.02

SHEET NO.

13

OF 18



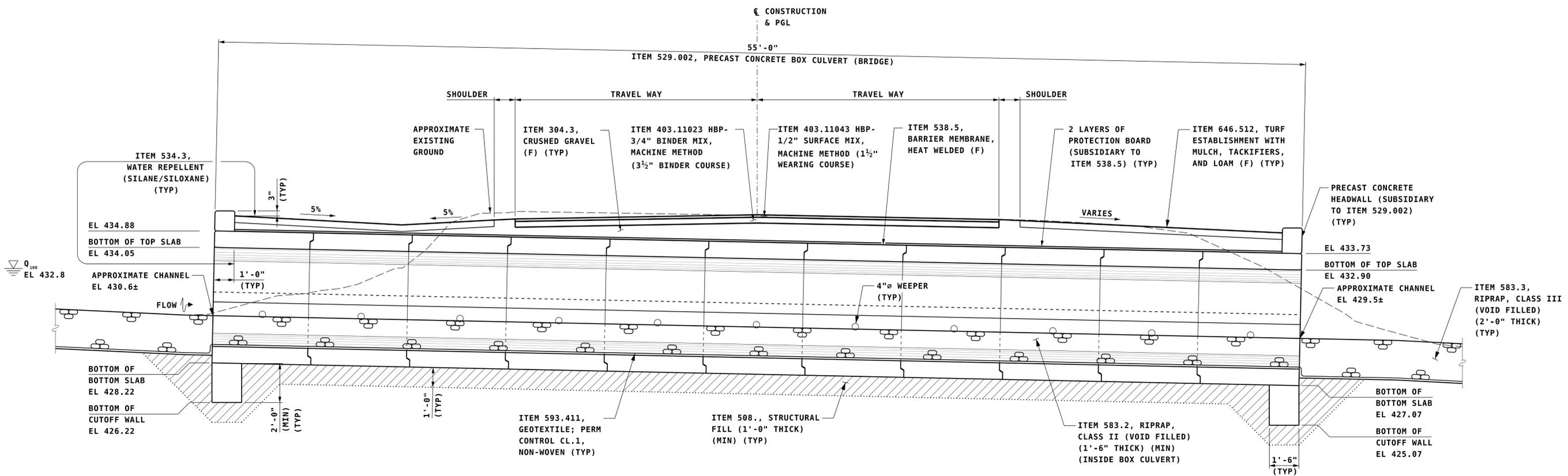
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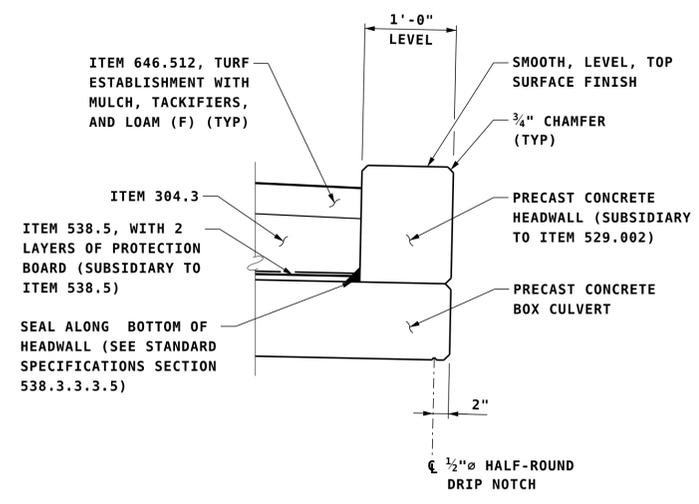
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GOFFSTOWN, NEW HAMPSHIRE	MONTOLONA ROAD OVER HARDY BROOK	PRECAST CONCRETE BOX CULVERT DETAILS (1 OF 3)
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- NOTES**
- CONTRACTOR SHALL FINALIZE FINISHED GRADE OF CHANNEL AFTER INSTALLATION OF UPPER PORTION OF THE BOX CULVERT.
 - SEE SHEET 13 FOR LOCATION OF SECTION A-A.

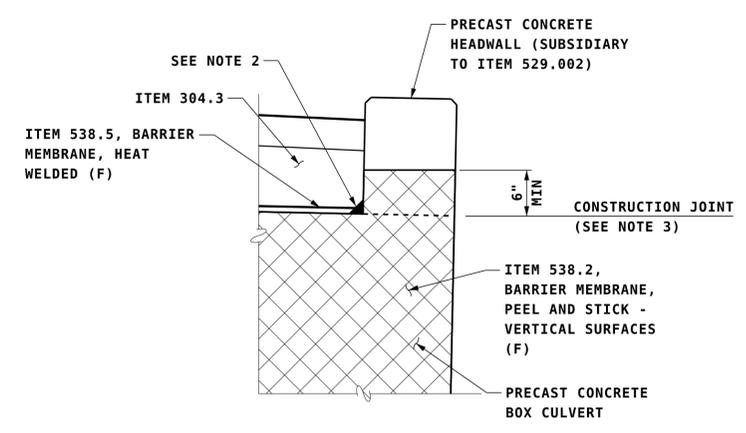
SECTION A-A
 SCALE: 3/8" = 1'-0"



- NOTE**
- BOX CULVERT AND HEADWALL REINFORCING TO BE DESIGNED BY THE CONTRACTOR'S FABRICATOR. SEE SPECIAL PROVISION FOR ITEM 529.002 FOR DESIGN REQUIREMENTS.

PRECAST CONCRETE HEADWALL DETAIL
 (SUBSIDIARY TO ITEM 529.002)

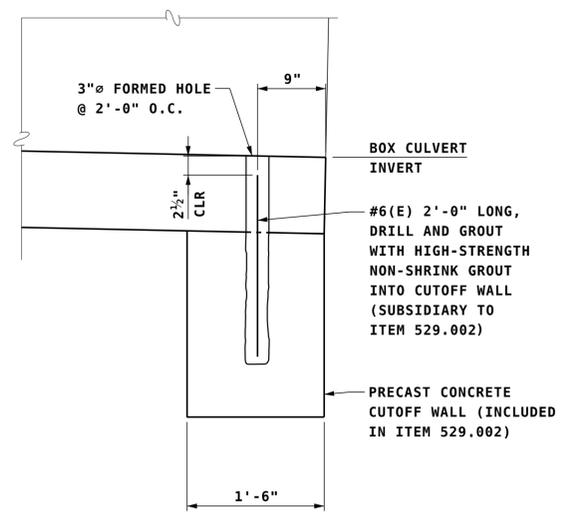
SCALE: 1" = 1'-0"



- NOTES**
- EXTEND ITEM 538.2, BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F) A MINIMUM OF 6" ABOVE CONSTRUCTION JOINT ON THE EXTERIOR END FACES OF PRECAST CONCRETE RIGID FRAME.
 - SEAL ALONG PRECAST CONSTRUCTION JOINT (SEE STANDARD SPECIFICATIONS SECTION 538.3.3.3.5).
 - PRECAST FABRICATOR SHALL NOT CHAMFER THE HEADWALL OR BOX CULVERT AT THIS JOINT.
 - PROTECTION BOARD NOT SHOWN FOR CLARITY.

END OF HEADWALL SEALING DETAIL

SCALE: 1" = 1'-0"

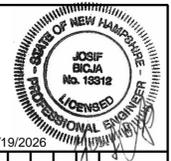


- NOTES**
- LENGTH OF CUTOFF WALL TO MATCH TOTAL WIDTH OF CULVERT.
 - DOWEL BARS TO BE GROUTED AFTER INSTALLATION OF THE CULVERT.
 - ITEM 529.002 REINFORCING TO BE DESIGNED BY THE CONTRACTOR'S FABRICATOR. SEE SPECIAL PROVISION FOR ITEM 529.002 FOR DESIGN REQUIREMENTS.

PRECAST CONCRETE CUTOFF WALL DETAIL
 (SUBSIDIARY TO ITEM 529.002)

SCALE: 1" = 1'-0"

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DATE FEBRUARY 2026			



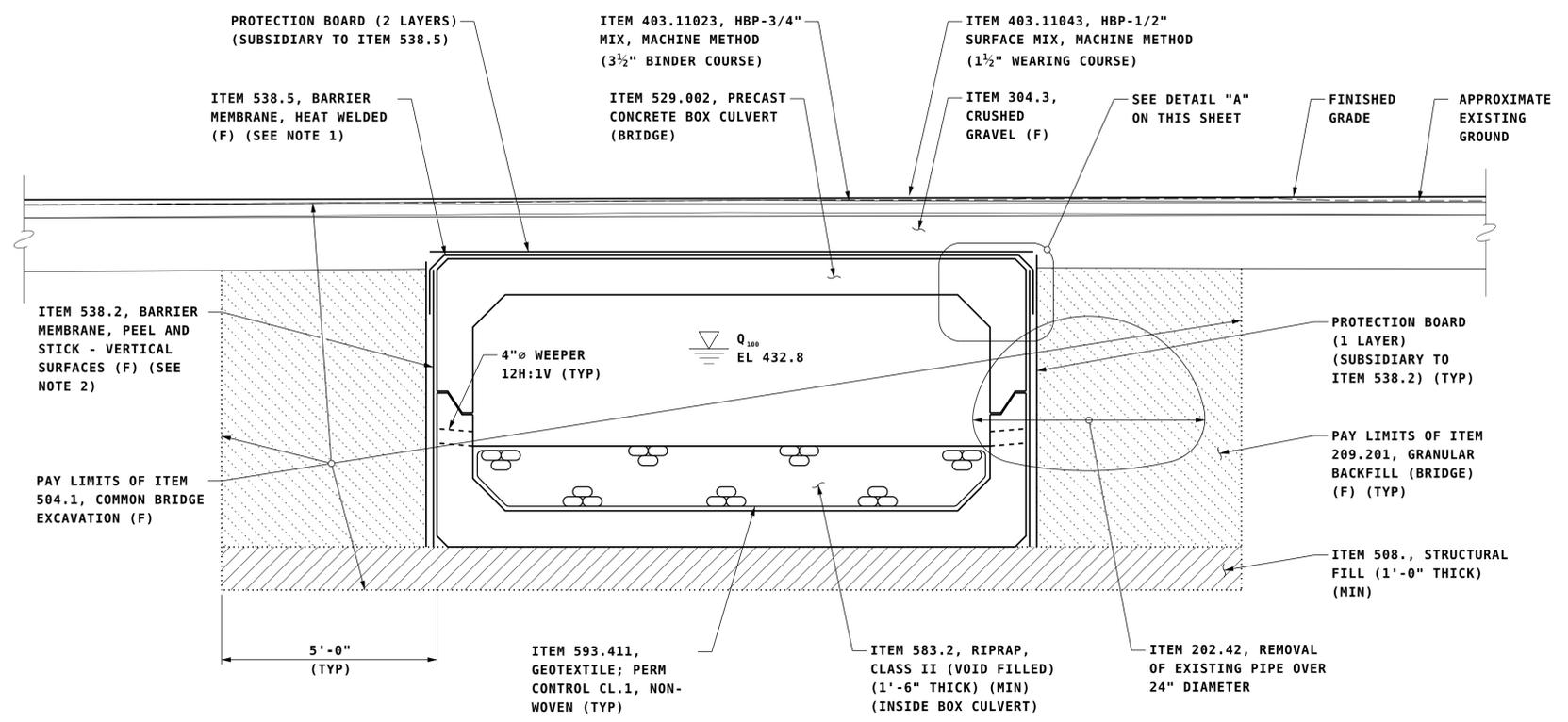
GOFFSTOWN, NEW HAMPSHIRE
MONTELONA ROAD OVER HARDY BROOK
PRECAST CONCRETE BOX CULVERT DETAILS (2 OF 3)

PROJECT NO. 24.010001.02

SHEET NO.

15

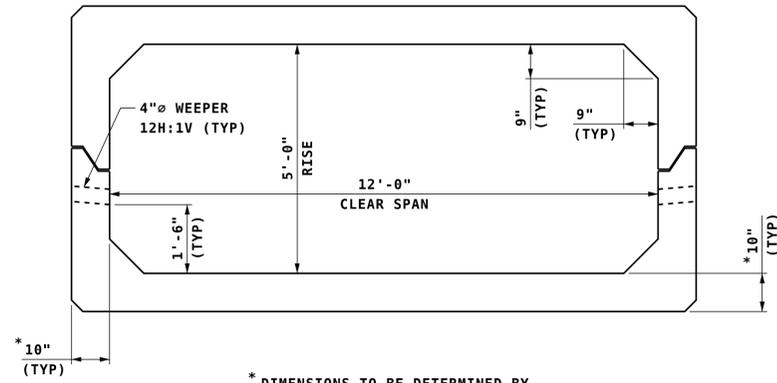
OF 18



- NOTES**
1. PLACE OVER ENTIRE HORIZONTAL SURFACE AND DOWN EACH VERTICAL SURFACE 1'-0" BELOW BOTTOM OF CHAMFER.
 2. PLACE OVER ENTIRE VERTICAL SURFACE OF BOX CULVERT.
 3. SEE SHEET 13 FOR LOCATION OF SECTION B-B.

SECTION B-B

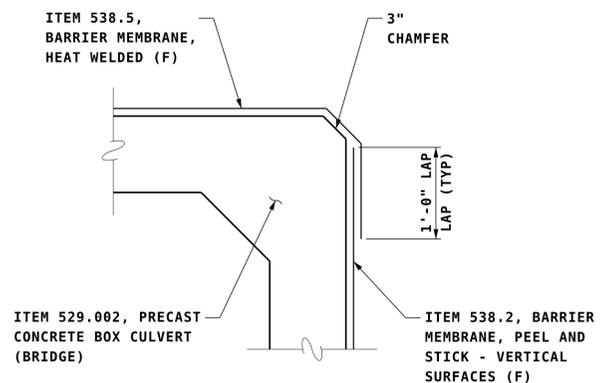
SCALE: 1/2" = 1'-0"



* DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR'S FABRICATOR. DIMENSIONS MAY CHANGE.

PRECAST CONCRETE BOX CULVERT MASONRY SECTION

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



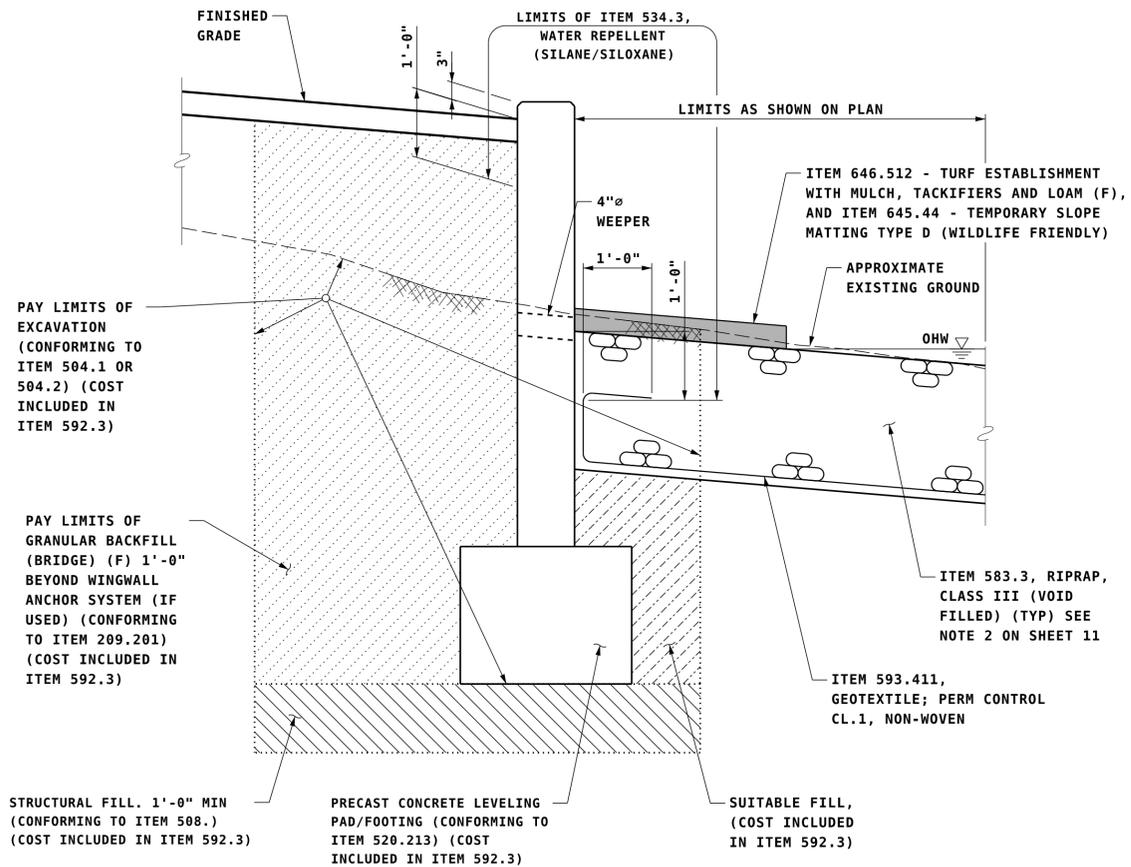
- NOTE**
1. PROTECTION BOARD NOT SHOWN FOR CLARITY.

DETAIL "A"

SCALE: 1" = 1'-0"

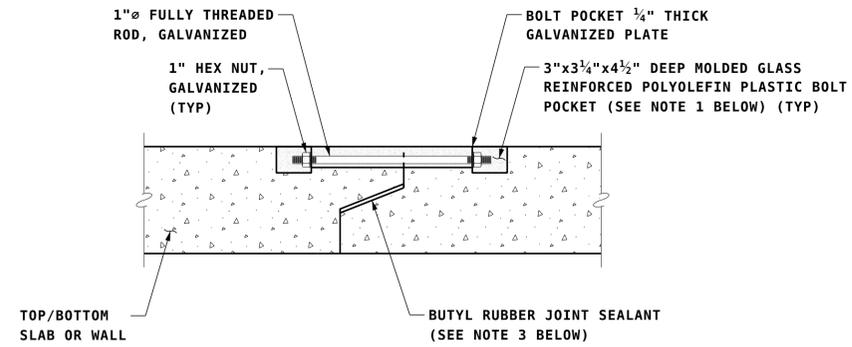
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WINGWALL EARTHWORK TYPICAL SECTION

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

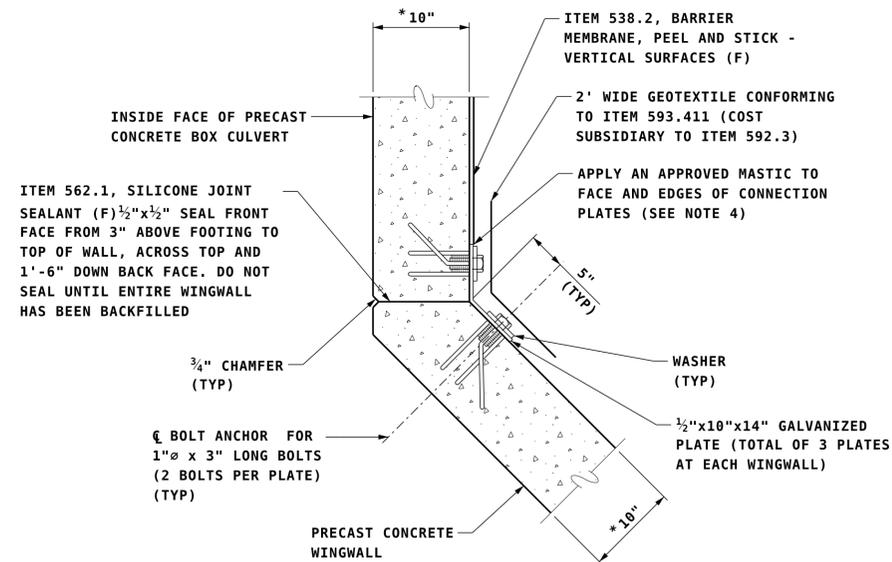


NOTES

1. 3"x3 1/4"x4 1/2" DEEP MOLDED GLASS REINFORCED POLYOLEFIN PLASTIC BOLT POCKETS CAST IN TOP SLAB AND EXTERIOR SIDEWALLS TO ACCEPT 1"Ø GALVANIZED THREADED ROD, NUTS AND WASHERS FOR PERMANENT ASSEMBLY IN FIELD. UPON SUCCESSFUL INSTALLATION, ALL POCKETS SHALL BE THOROUGHLY FILLED IN WITH AN NHDOT APPROVED, NON-SHRINK GROUT AND STRUCK LEVEL.
2. A MINIMUM OF 4 MECHANICAL CONNECTORS ARE REQUIRED FOR EACH BOX CULVERT UNIT (2 TOP SLAB AND 1 EACH SIDEWALL).
3. BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & AASHTO M-199 SHALL BE PROVIDED.

BOX CULVERT MECHANICAL CONNECTION DETAIL
(SUBSIDIARY TO ITEM 529.002)

NOT TO SCALE



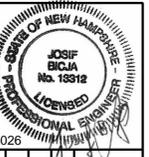
* ASSUMED DIMENSION. ACTUAL DIMENSION TO BE DETERMINED BY FABRICATOR

NOTES

1. CONNECTION PLATES MUST BE POSITIONED WITH SMALL DIAMETER HOLES TOWARD STRUCTURE.
2. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED.
3. FABRICATOR TO DESIGN ALL CONNECTION PLATES BUT IN NO CASE SHALL THEY BE SMALLER THAN AS DETAILED ABOVE (SEE WINGWALL NOTE 2 ON SHEET 5) (COST SUBSIDIARY TO ITEM 592.3).
4. THE APPROVED MASTIC MATERIAL SHALL COMPLY WITH STANDARD SPECIFICATION SECTION 538 AND SHALL BE LISTED ON THE NHDOT QUALIFIED PRODUCTS LIST PER ITEM 538 (COST SUBSIDIARY TO ITEM 538.2).

WINGWALL TO PRECAST CONCRETE STRUCTURE CONNECTION DETAIL

NOT TO SCALE



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GOFFSTOWN, NEW HAMPSHIRE	MONTOLONA ROAD OVER HARDY BROOK	PRECAST CONCRETE BOX CULVERT DETAILS (3 OF 3)
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PROJECT NO. 24.010001.02

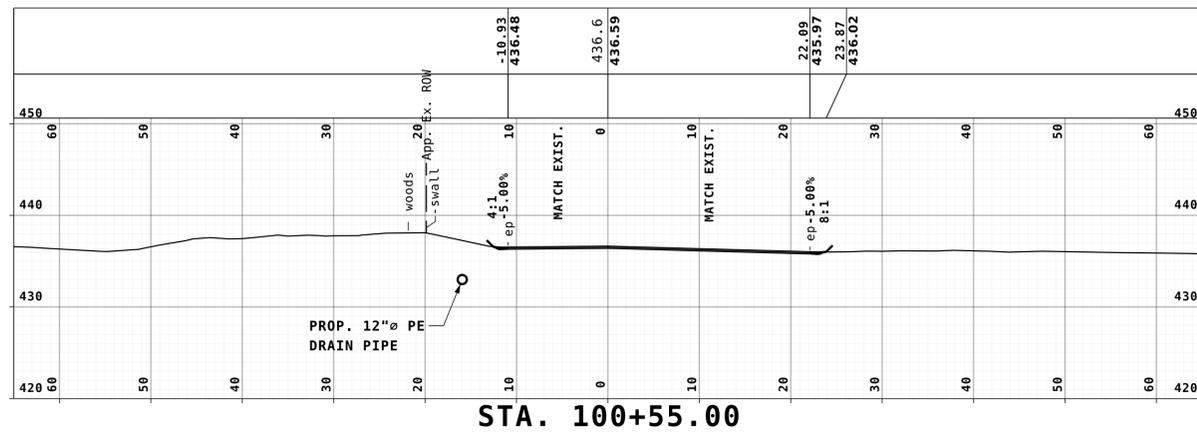
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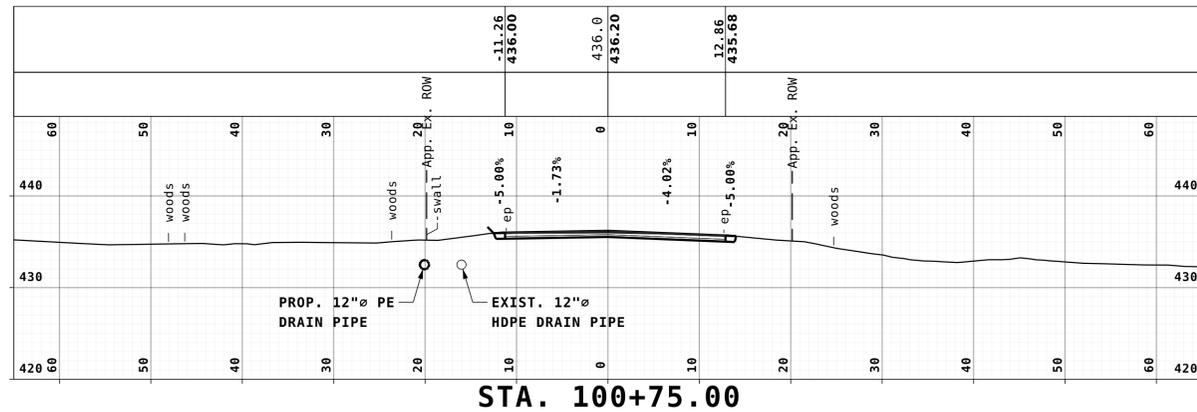
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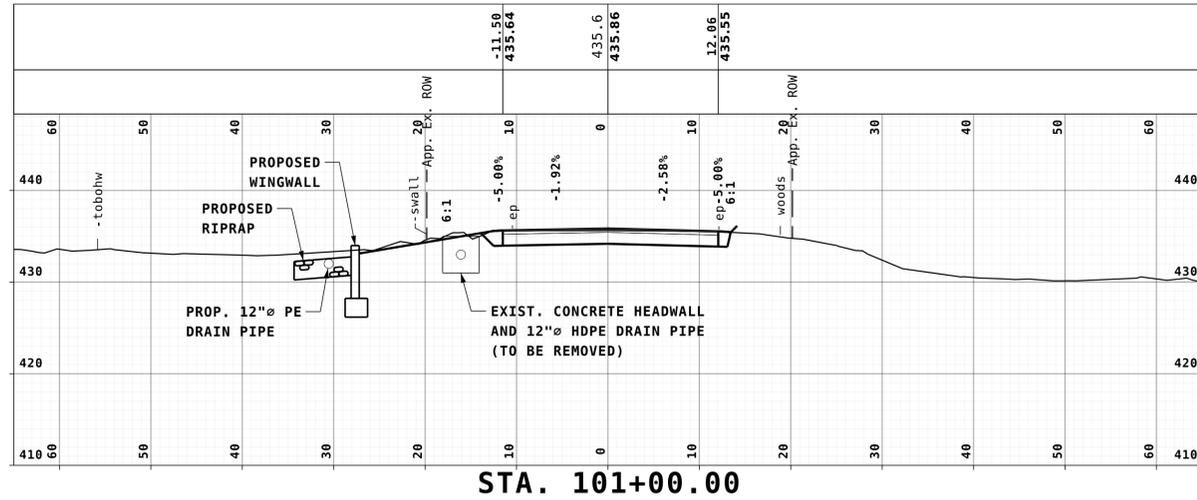
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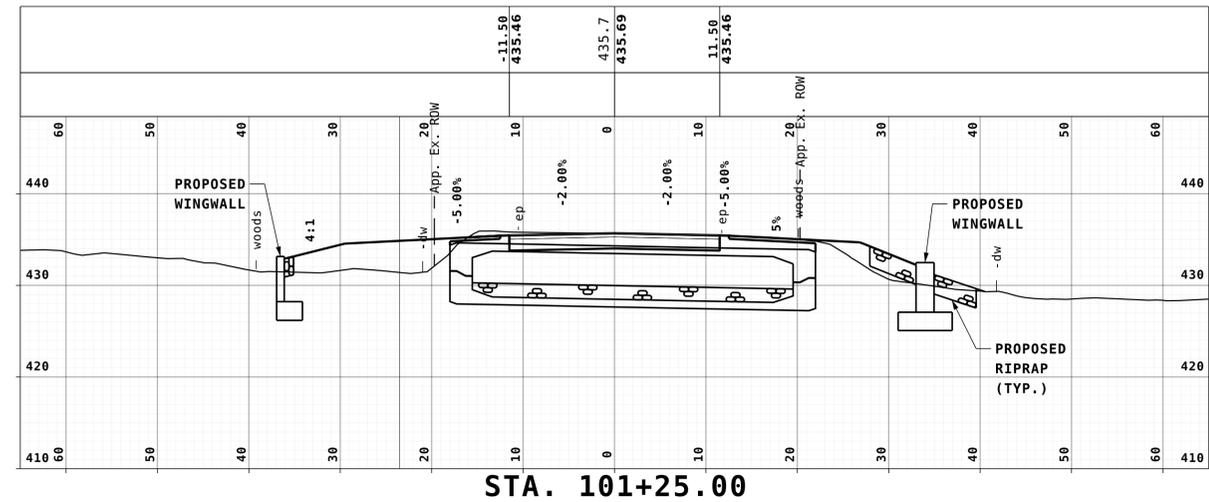
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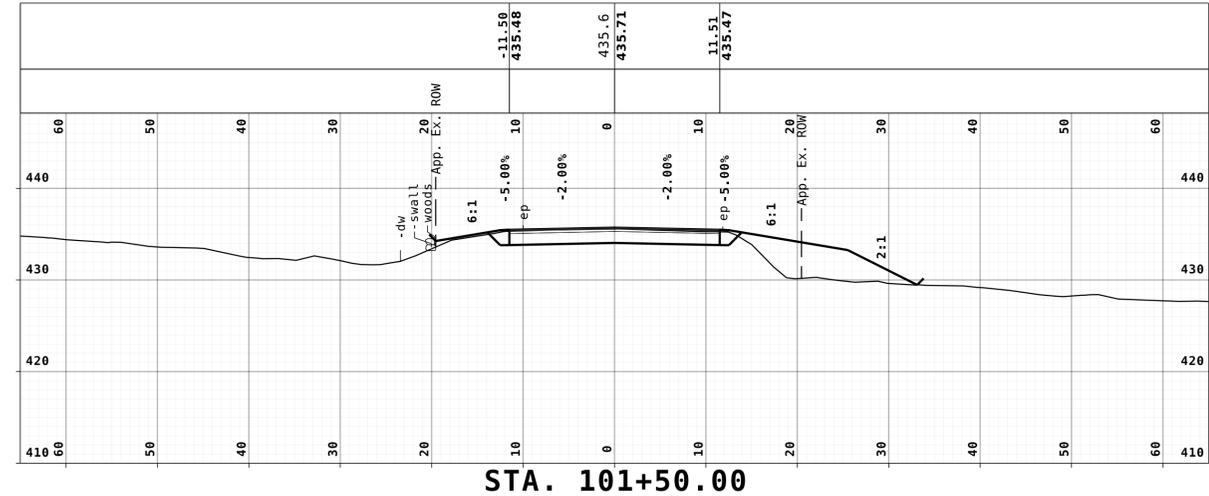
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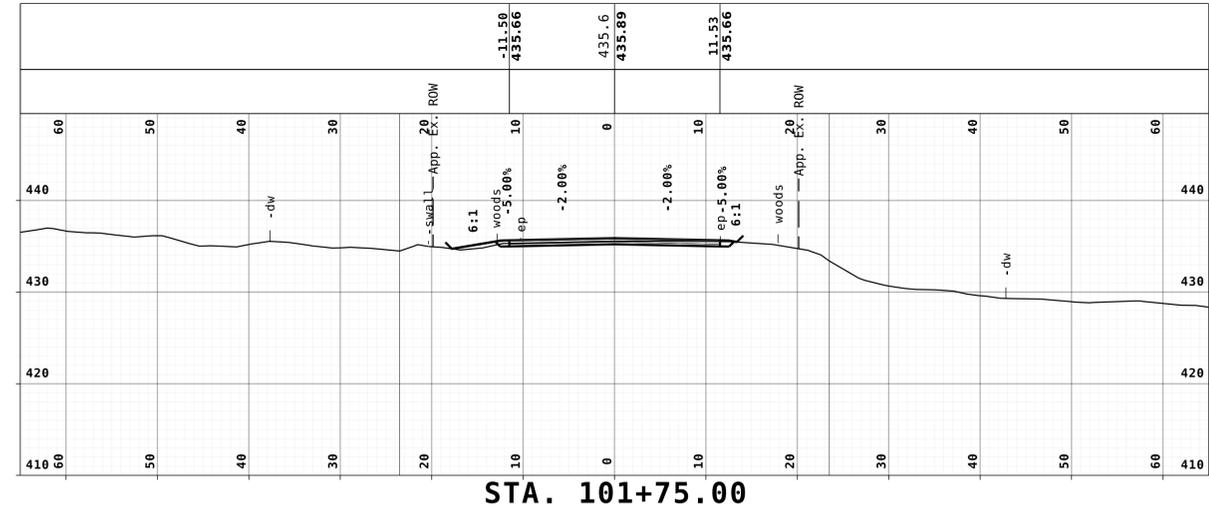
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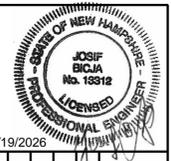
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STA. 101+50.00



STA. 101+75.00



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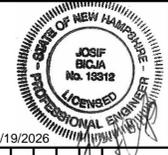
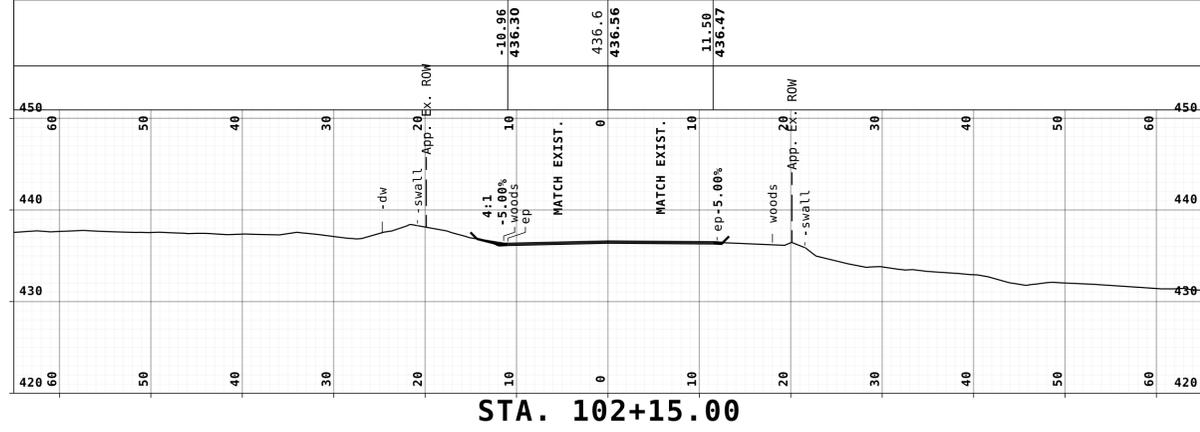
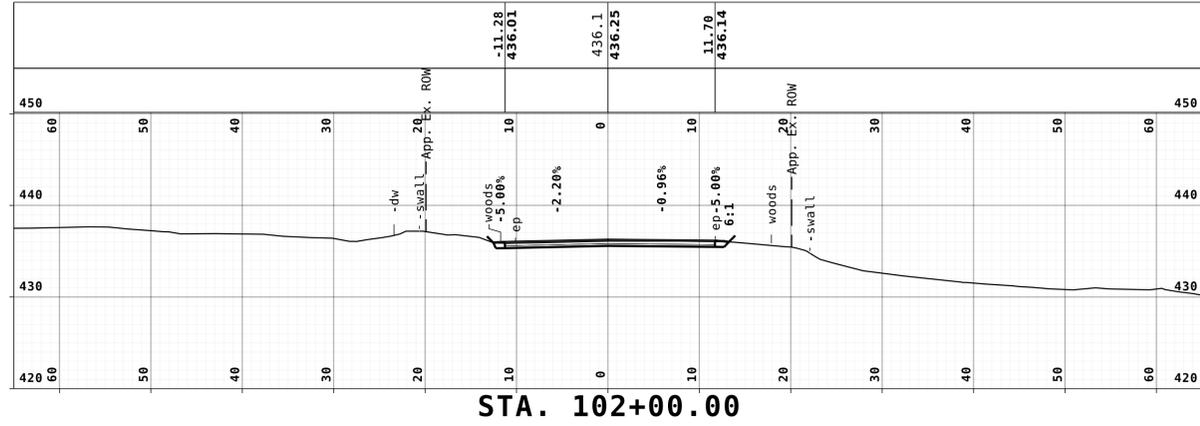
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DATE FEBRUARY 2026	N/A	N/A	DATE FEBRUARY 2026

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GOFFSTOWN, NEW HAMPSHIRE
 MONTELONA ROAD OVER HARDY BROOK
 MONTELONA ROAD CROSS SECTIONS (1 OF 2)

PROJECT NO. 24.010001.02
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GOFFSTOWN, NEW HAMPSHIRE
 MONTELONA ROAD OVER HARDY BROOK
 MONTELONA ROAD CROSS SECTIONS (2 OF 2)

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