

MAINE TURNPIKE AUTHORITY

ADDENDUM NO. 1

CONTRACT 2019.04

INTERCHANGE 103 BARRIER TOLL PLAZA
OPEN ROAD TOLLING CONVERSION
MILE 103.00

The bid opening date is Thursday 4/18/2019 at 11am.

The following changes are made to the Proposal, Specifications, and Plans.

GENERAL

All questions regarding Contract 2019.04 shall be submitted by April 11, 2019 at 12pm. Questions received after that time may not be answered.

PROPOSAL

- Proposal Sheets P-6, P-7, P-9 and P-20 are deleted and replaced with sheets P-9 and P-20 attached hereto. The revisions to these proposal sheet modify the quantities for items 526.3511 Median Barrier Type IA – Precast, 526.352 Median Barrier Type II and 605.11 12 Inch Underdrain Type “C” and modify the quantity and unit for item 652.45 Truck Mounted Attenuator.

SPECIAL PROVISIONS

- Page SP-51, Special Provision Section 403 HOT ASPHALT PAVEMENT is deleted and replaced with an attached included in this addendum. Item Number 403.212 in Table was replaced with Item Number 403.211.
- Page SP-206, Special Provision Section 645 HIGHWAY SIGNING (Overhead Guide Sign)(Cantilever Guide Sign) is deleted and replaced with an attachment included in this addendum.

PLANS

- Plan Sheet 2 of 503, ESTIMATED QUANTITIES – 1, has been deleted in its entirety and replaced with Plan Sheet 2 of 503, included in this addendum.
- Plan Sheet 3 of 503, ESTIMATED QUANTITIES – 2, has been deleted in its entirety and replaced with Plan Sheet 3 of 503, included in this addendum.
- Plan Sheets 32 and 33 of 503, PHASE 2 MAINTENANCE OF TRAFFIC PLAN 3 and 4, have been deleted in their entirety and replaced with Plan Sheets 32 and 33 of 503, included in this addendum.

- Plan Sheet 46 of 503, PHASE 3 MAINTENANCE OF TRAFFIC PLAN 2, has been deleted in its entirety and replaced with Plan Sheet 46 of 503, included in this addendum.
- Plan Sheets 103 and 106 of 503, BARRIER DETAILS 1 and 4 have been deleted in their entirety and replaced with Plan Sheets 103 and 106 of 503, included in this addendum.
- Plan Sheets 122, 123 and 133 of 503, GENERAL PLAN 9, 10 and 20 have been deleted in their entirety and replaced with Plan Sheets 122, 123 and 133 of 503, included in this addendum.
- Plan Sheets 205A, OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS 1 OF 3, 205B, OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS 2 OF 3 and 205C, OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS 3 OF 3 are added to the set after Sheet 205.
- Plan Sheets 223 and 224 of 503, ADMIN BULDING GRADING AND DRAINAGE PLAN 1 AND 2, have been deleted in their entirety and replaced with Plan Sheets 223 and 224 of 503, included in this addendum.
- Plan Sheet 228 of 503, SITE DETAILS 3, has been deleted in its entirety and replaced with Plan Sheet 228 of 503, included in this addendum.
- Plan Sheet 233 of 503, LIMIT OF DISTURBANCE PLAN 2, has been deleted in its entirety and replaced with Plan Sheet 233 of 503, included in this addendum.
- Plan Sheets 273 and 274 of 503, NB/SB ORT STA. 4495+50/4595+50 TO STA. 4496+50/7496+50, NB/SB ORT STA. 4497+00/4597+00 TO STA. 4498+00/7498+00 have been deleted in its entirety and replaced with Plan Sheets 273 and 274 of 503.
- Plan Sheets 354, 355 and 358 of 503, ACCESS ROAD STA. 114+00.00 TO 116+50.00, ACCESS ROAD STA. 117+00.00 TO 118+00.00, and ACCESS ROAD STA. 120+50.00 TO 121+00.00, have been deleted in their entirety and replaced with Plan Sheets 354, 355 and 358 of 503.

QUESTIONS

The following are questions asked at the pre-bid meeting held on April 2, 2019 or submitted to the Maine Turnpike Authority in writing. Answers to the questions are noted. Bidders shall utilize this information in preparing their bid.

1. Question: Clarification on how to classify/pay laborers that fall under multiple wage rate categories included in the contract?
Answer: Contact the Department of Labor for any clarification on wage rates.
2. Question: Does the construction phasing provided in the contract documents include how the project phasing interacts with the adjacent 2018.05 Contract?

Answer: Yes, see Phases 1 and 2 of the Maintenance of Traffic plans. As noted in section 104.4.7, this is an adjacent contract and contractors will need to coordinate with each other.

3. Question: Will the overhead sign structure foundations be included in an upcoming addendum?

Answer: Yes, plans and Special Provision 645 are include in this addendum.

4. Question: It does not appear the Geotechnical Report is available on the MTA project website.

Answer: The Geotechnical Report is located on the MTA project website under the Additional Info.

5. Question: Please define the scope of Bid Item 626.333 30” Dia Foundation, 8 Feet or Less Foundation

Answer: Refer to Standard Specifications Section 626 FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR HIGHWAY SIGNING, LIGHTING, AND SIGNALS for the scope of work for Item 626.33. This item is for roadside guide signs with 30” foundations noted in the Plan Sheet 204 of 503, SIGN SUMMARY – PROPOSED 4

6. Question: Please clarify which bid items includes the Overhead Guide Sign and Cantilever Guide Sign foundations.

Answer: Refer to Standard Specifications Section 645.09 Basis of Payment. Foundations are included with the lump sum pay items for Overhead Guide Sign and Cantilever Guide Sign structures.

7. Question: Please confirm that project 2019.04 does not need to accommodate construction access to the project 2018.05. ie 2019.04 Phase 2 shows temporary concrete barrier and/or guardrail along the SB shoulders Sta 4509 through the 2019.04 work zone, and NB LT shoulder to Sta 7526.

Answer: This addendum will revise Plan sheets 32 and 33 of 503 to address contractor access for project 2018.08.

8. Question: Please clarify the intent of Note 1 MOT Phase 3, Sheet MOT3-02 related to traffic control associated with testing of the ORT equipment. It appears the ORT Commissioning occurs during Phase 4 per Sheet MOT4-02. Please define the traffic control required during Phase 3 for ORT testing.

Answer: This addendum will revise Note 1 on Plan sheet 46 of 503.

9. Question: Below is an excerpt from the advertisement for the Gardiner Toll Plaza. The language has been a standard for Toll Plaza construction. I’m concerned as a pre-qualified Lighting/Traffic Signal contractor that I’m at a disadvantage. The General Contractor

constructing the toll plaza at both Exit 44 and York is allowed to self-perform the electrical without prequalification. Can/should this be addressed?

...at the office of the Maine Turnpike Authority, 2360 Congress Street, Portland, ME, until 11:00 a.m., prevailing time as determined by the Authority on April 18, 2019 at which time and place the Proposals will be publicly opened and read. Bids will be accepted from Contractors prequalified by the Maine Department of Transportation for Bridge Construction Projects. All other bids will be rejected. In addition, contractors submitting bids must be themselves or utilize a highway subcontractor pre-qualified by the Maine Department of Transportation for Highway, a building subcontractor prequalified by the Maine Department of Transportation for Buildings and an electrical subcontractor prequalified by the Maine Department of Transportation for Traffic Signals and Lighting Projects.

Answer: General Contractors can be prequalified by the MTA for Traffic Signals and Lighting Projects if they meet the requirements.

10. Question: In the item description you have a 403.211 9.5mm shim, 1658 tons. But in the 403 Special Provisions you have a 403.212 shim item for 4.75mm and 19mm. There is no 403.211 in the Special Provisions and no 403.212 in the item description. Can you clarify if there are two shim items, and if so what are the intended quantities of the 403.212?

Answer: This addendum will revise the table on Special Provision sheet SP-51.

ATTACHMENTS

- Pre-Bid Agenda (8 pages)
- Pre-Bid Sign-In sheets (2 page)
- Proposal Sheets (4 pages)
- Special Provisions (3 Pages)
- Plans (22 Pages)

MAINE TURNPIKE AUTHORITY

Pre-Bid Conference

CONTRACT 2019.04

INTERCHANGE 103 BARRIER TOLL PLAZA OPEN ROAD TOLLING CONVERSION MILE 103.00

April 2, 2019 10:00 AM

1) Location:

The general limits of work are at Mile 103 in West Gardiner. The project begins approximately 3,300' south of existing toll facility on I-295 (Sta. 7460+00 on the northbound baseline) and extends approximately 2,900' north of the existing gore of I-295 and the Maine Turnpike I-95.

2) General Description:

The work consists of replacing the existing toll plaza; construction of two northbound and two southbound open road tolling (ORT) lanes, and three northbound and three southbound cash/E-ZPass lanes; construction of a precast pedestrian tunnel for employee access and utilities; construction of an Administration Building and access road; reconfiguration of Exit 51 ramps and I-295 Northbound ramp; and demolition of existing toll plaza and reconstruction of the mainline to accommodate approach and departure grade and alignment differentials at the modified plaza for the Maine Turnpike. The work includes earthwork, pavement, concrete, toll plaza demolition and modification, signing, bridge overpass-mounted, overhead sign structures, concrete barrier, guardrail, electrical work, lighting and lightning suppression systems. The work also includes the installation of tolling provisions in the tunnel, canopy, and toll booth, maintenance of traffic, and all other work incidental thereto in accordance with the Plans and Specifications. Coordination with the toll system integrator for toll equipment installation and commissioning will be required. Utility coordination is necessary for the installation of new services for the new toll plaza while utility services to the existing toll plaza are maintained.

3) Bid:

- a) Sealed proposals will be received until April 18, 2019 at 11:00 A.M. at MTA Headquarters 2360 Congress Street, Portland.
- b) Bids will be accepted from Contractors prequalified by the Maine Department of Transportation for Bridge Construction Projects. All other bids will be rejected. In addition, contractors submitting bids must be themselves or utilize a highway subcontractor prequalified by the Maine Department of Transportation for Highway, a building subcontractor prequalified by the Maine Department of Transportation for Buildings and an electrical

subcontractor prequalified by the Maine Department of Transportation for Traffic Signals and Lighting Projects.

- c) Contractors not currently prequalified by MaineDOT for Bridge projects can seek prequalification for this project prior to the award by submitting the prequalification application included with this notice directly to the Authority at the above address. Contractors not currently prequalified by MaineDOT for Bridge Projects or Contractors not prequalified by the MTA for Bridge projects for this project will not be awarded a contract for this project. Subcontractors not currently prequalified by MaineDOT can seek prequalification for this project prior to the bid by submitting the prequalification application included with this notice directly to the Authority at the above address.
- d) All questions on plans and specifications shall be in writing and shall be directed (faxed) to Purchasing Department, of the Maine Turnpike Authority. Fax No. (207) 871-7739 or ncarll@maineturnpike.com.

4) Notification:

- a) Contractor shall notify and obtain approval from the Authority prior to visiting the Project site for field inspection. The contact person is Mr. Steve Tartre at (207) 871-7771, ext. 144 email statre@maineturnpike.com and copy jhansen@maineturnpike.com.

5) Maine Department of Labor – Fair Hourly Wages (Special Provision 104.3.8)

- a) Are provided and include Heavy and Bridge wages and Highway and Earthwork wages.

6) General Requirements

- a) All work shall be governed by the Specifications entitled "State of Maine, Department of Transportation, Standard Specifications, Revision of November 2014".
- b) Supplemental Specifications have been revised to include additional sections, 401, 502, 652 and 656.
- c) U-Turns at toll plazas and median openings are not allowed, and are subject to fines. (Supplemental Specification 105.5.1). This includes the snow plow turnarounds.
- d) Contractor access to and from the mainline shall not negatively impact mainline traffic flow. The Contractor may be required to establish lane and/or shoulder closures to provide for safe access. Refer to Supplemental Specifications 652.3.4 and Special Provision 652, Specific Project Maintenance of Traffic Requirements, for lane and shoulder closure requirements and restrictions.
- e) All vehicles used on the Project, including concrete delivery trucks, shall be equipped with amber flashing beacons in accordance with the Supplemental Specification 652.3.4.
- f) Class III safety vests must be worn at all times in accordance with Supplemental Specification 652.3.2

7) Utility Requirements (Special Provision 104.4.6)

The project requires utility coordination summarized as follows:

- a) The contract includes the installation of 2,400 LF of 2” water main and associated appurtenances as depicted within the design plans. Contractor shall coordinate all work with the Gardiner Water District for required inspections, testing and notifications.
- b) Central Maine Power will be extending Three Phase primary power from the Exit 102 Park and Ride lot to the proposed Maine Turnpike Authority Administrative building. Contractor will be responsible for any temporary power that is needed on site.
- c) Consolidated Communications (formerly Fairpoint Communications) will extend communication line from the Exit 102 Park and Ride lot to the proposed Maine Turnpike Authority Administrative Building. Consolidated Communications will be setting the proposed pole at the Exit 102 Park and Ride lot.
- d) The Contractor will be required to maintain all services and utilities to the existing facility throughout construction of the new toll plaza area. Existing services and utilities include, but are not necessarily limited to, power, telephone, water, sewer, propane, heat and site/roadway lighting. The Contractor shall be responsible for all temporary connections, service runs, relocation, disconnections, reconnections, etc. required to maintain these services due to phasing of construction and constraints of the site and work area. This includes any needed temporary services for the new toll plaza and the existing I-95 Northbound On-Ramp lighting. In order to maintain power to the transformer and lighting along the I-95 Northbound On-Ramp, the contractor may have to provide temporary power to the existing lights. Temporary power can be provided on wooden poles located outside the clear zone or protected. The contractor shall coordinate with the Resident and MTA on a temporary service. This item shall be incidental to Item 800.30 Existing Toll Plaza Demolition.

Prior to start of construction, the Contractor shall submit a plan and schedule for maintaining existing services and utilities. The plan shall identify all proposed temporary connections, service runs, relocations, disconnections, reconnections, etc. and shall reflect construction phasing and the Contractor’s proposed sequence of work. Maintaining existing services and utilities and all temporary utility work, including proposed temporary connections, service runs, relocations, disconnections, reconnections, etc. shall be incidental to Item 800.30 Existing Toll Plaza Demolition.

8) Hazardous Waste Requirement (Special Provision 105.2)

- a) A copy of the Lead Determination Report the Asbestos Containing Determination Survey report for the existing toll plaza, which identifies the positive testing of lead and asbestos items, is in Appendix A of contract document.

9) Permit Requirements (Special Provision 105.8.2)

- a) The Project is being constructed under the Maine DEP Natural Resources Protection Act Permit by Rule (PBR) regulations Section 2 - Activities adjacent to protected natural resources. A copy of the PBR section 2 regulations and permit is available for download on the Maine Turnpike Authority project website. The PBR Section 2 permit for this project requires that an undisturbed buffer be maintained between construction activities and the

wetlands located on the project plans. The buffer width is indicated by the clearing limits and silt fence boundaries on the plans.

- b) The Project permitted through the US Army Corps of Engineers Programmatic General Permit, Category 2. A copy of the USACE General Permit Authorization Letter is available for download on the Maine Turnpike Authority project website.
- c) The Project is subject to the requirements of the Maine Pollutant Discharge Elimination System (MPDES) General Permit for Stormwater Discharge from Construction Activity. This requires all Contractors to be properly trained in Erosion and Sedimentation Control (ESC) measures (as per Supplemental Specification Subsection 656.07) and implement measures to reduce pollutants in stormwater runoff from construction activities.
- d) A Notice of Intent (NOI), accompanied by a preliminary Limit of Disturbance (LOD) of 38.68 acres have been filed by MTA with Maine DEP. Contractor shall prepare and file a final LOD.
- e) MaineDOT Best Management Practices (latest issue), subject to fines in accordance with Supplemental Specification 105.8.7.

10) Construction Schedule/Prosecution of Work:

- a) April 25, 2019—Contract award considered at MTA Board Meeting
- b) November 14, 2021—Contract Completion Date
- c) Contract completion date is defined as the required completion date of all Work including punch list items pursuant to the Contract, except the warranty work, including the Landscape Warranty Bond.
- d) Liquidated damages on a calendar day basis in accordance with Supplemental Specifications Subsection 107.7.2 shall be assessed for each calendar day that project completion is not achieved.
- e) Supplemental liquated damages of Two Thousand (\$2,000) Dollars per calendar day shall be assessed for each calendar day during the periods from November 16, 2019 through April 15, 2020 and from November 16, 2020 through April 15, 2021 that the winter lane requirement activities listed are not complied with.

11) Cooperation With Other Contractors

- a) MTA Contract 2018.05 – Exit 103 I-295 Southbound Underpass Bridge Rehabilitation (2019-2020)
- b) MTA Contract 2018.15 – Bridge Rehabilitation Cobbossee Stream Overpass MM 99.2 (2018-2020)
- c) MTA Contract 2019.11 – Plains Road Underpass Bridge Repairs MM 95.6 (2019)
- d) MaineDOT WIN 02237.00 Bridge Painting Pond Rd/I-295 Bridge (2019)

- e) MaineDOT WIN 18735.00, 18736.00, 18736.10 and 22684.00 Bridge Street and
- f) Maine Avenue Bridges, Gardiner (2019-2020)

12) Maintenance of Traffic (Special Provision Section 652):

- a) Two lanes of traffic in each direction shall be maintained on the mainline in both northbound and southbound directions except when one lane of traffic is allowed by these Specifications and Plans.
- b) Tables in Special Provision Section 652 indicate when temporary lanes closures and temporary shoulder closures are allowed.

13) Toll Plaza Traffic Control (Special Provision Section 652):

- a) Plaza lanes shall remain available for opening at all times except when the Contractor is performing work in, adjacent to or directly over the plaza lanes.
- b) Plaza lane closures not completely removed by the ending time specified will be subject to a lane rental fee of \$100.00 per 10 minutes for every 10 minute increment beyond the specified ending time.

14) Specific Contract Items

- a) Section 202 – Removing Structures and Obstructions
 - i) Pertains to demolition of the existing service building and removal and disposal of asbestos at the existing toll plaza booths.
 - ii) All asbestos containing materials shall be removed by a licensed asbestos abatement Contractor prior to the general demolition.
 - iii) Section 202.02 lists items/equipment will be removed and stacked at the Authority’s Sign Shop MM 58.3 Northbound by the Contractor
 - iv) The contractor shall coordinate with the propane supply company to empty the tanks prior to removal.
 - v) The septic tank(s) shall be pumped out to remove waste material and shall be broken up as approved by the Resident to preclude accumulation of water.
 - vi) The foundations, including floor slabs, shall be completely removed. Concrete shall be disposed of off-site.
 - vii) The demolition and removal of the Toll Plaza Booths, Canopies and Tunnel are paid for under Removing Existing Structural Concrete and are not in the Removing Existing Building lump sum price. The limits of the existing tunnel removal are indicated on sheets 364 and 365 and includes a note to break or cut the tunnel floor slab to provide a minimum of 1 SF of opening for every ten feet of tunnel length to allow for drainage through the slab that remains.
 - viii) Any excavation required to remove existing concrete will not be measured separately for payment, but shall be incidental to Item 202.17, Removing Existing Structural Concrete
- b) Section 403 - Hot Mix Asphalt Pavements
 - i) Joint density measurement and hydrated lime are required.

- c) Section 503 - GFRP reinforcing is required for the ORT roadway slabs and portions of the cash lane structural concrete pavement slabs to provide for minimum required clearances between steel materials and the tolling equipment (roadway detection loops). Field bending of GFRP is not allowed.
- d) Section 504 – Structural Steel
 - i) Toll Plaza Canopy - The contractor shall install a new canopy over new NB and SB cash lanes. The canopy installation shall include shop painted structural steel and any field touch-up, EPDM roofing system, canopy and toll booth pit drains from the canopy to the tunnel underdrain and roadway drainage system as shown on the plans, and all electrical and toll systems mounted to or routed through the canopy, installation of canopy sign supports, coordination with the installation of canopy signs and luminaires and all other attachments, and all material, labor, equipment, and incidentals required to complete the work.
 - ii) Space frame canopy - The Contractor shall have the option to fabricate the space frame canopy from galvanized steel or aluminum.
 - iii) Metal Stairs - Metal stairs are located at cash toll booth islands B and E. The stairs shall consist of steel stringers and framing; steel pans for concrete in-fill stair treads, platforms, and landings; steel risers; and steel tube handrails attached to the concrete walls adjacent to the metal stairs.
- e) Section 506 – Shop Coating Application
 - i) This includes the shop cleaning and painting of the new Toll Plaza Structure Canopy Support Columns and the new Canopy Structural Members including all connection components (plates, blocks, etc.).
 - ii) Note the strict qualification and quality control requirements
- f) Section 511- Temporary Earth Support Systems
 - i) Paid as one lump sum for any/all support systems used on the project.
- g) Section 515 – Protective Coating for Concrete Surfaces
 - i) Epoxy overlay is applied to sensor loops as shown on the plans.
- h) Section 526 – Temporary Concrete Barrier Type I
 - i) Test Level 3 (TL-3) criteria as defined in NCHRP Report 350 or the AASHTO Manual for Assessing Safety Hardware (MASH)
 - ii) Concrete barrier placed at roadway low points shall be shimmed on 1” by 2” by 2’ long wood planks to allow drainage to pass under the barrier. In addition, the Resident may direct the Contractor to shim the concrete barrier at other locations to provide for proper roadway drainage. Contractor shall also be responsible for keeping the back side of barrier clear of snow and ice to allow for drainage of roadway. All labor, material, and equipment necessary to shim the barrier and maintain clear area behind barrier will not be measured separately for payment, but shall be incidental to the Concrete Barrier.
- i) Section 535- Precast Concrete Tunnel
 - i) This work shall consist of furnishing and installing precast concrete tunnel sections into one continuous unit in accordance with these Specifications and in conformity with the lines, grades, and dimensions shown on the Plans. The tunnel shall consist of individual concrete sections connected together via connection rods located within the sides of the segments and extending across the lap joints of each segment. The precast concrete tunnel in its final configuration shall be watertight. Underground precast concrete shall include precast stairwells at Islands B & E.

- ii) The Contractor shall take notice that there are voids/penetrations identified in several tunnel segments for the installation of utilities such as conduits and water pipes. This information shall be shown on the shop drawings. Steel reinforcement layout shall be predetermined to avoid conflicts with penetrations. Penetrations shall be formed with sleeves prior to casting of the segments. Field drilling will not be permitted without written consent from the Engineer of Record and unless indicated otherwise on the plans or specifications.
- iii) Deviation from theoretical cumulative overall tunnel length, line, grade, and direction shall not exceed 1 inch in any direction. The Contractor shall measure the as-built position of the leading end of each segment after setting each segment as the work progresses and shall report the measurements to the Resident Engineer.
- iv) The Contractor is alerted to the critical need for segments no. 11 & 32 (staircases) to fit within tolerance at the interface with the at-grade toll island and adjacent traffic lanes.
 - i) The stairwell segment at Islands B & E are included in the basis of payment.
- j) Section 605 - 12 Inch Underdrain Type C
 - i) Consist of furnishing and installing 12 inch diameter PVC SDR35 pipe with perforations and fittings for the precast concrete tunnel underdrain at the locations as shown on the Plans or as approved by the Resident.
 - ii) When elbows, tees, wyes, or other special fittings are required in underdrain, each fitting shall be included for payment as 3 additional linear feet of the largest pipe size involved.
- k) Section 634 – Highway Lighting
 - i) Existing lighting is intended to remain operational until new luminaires are installed and operational. Existing luminaires, conduit and lighting standards shall be protected until approved by the Resident to be removed. Any temporary lighting that may be needed during removing and resetting of existing light standards or during the maintenance of traffic shall be incidental to the pertinent lighting items.
 - ii) All Contract work shall be overseen by a Maine licensed Master Electrician. The lead person for the field installations shall be either a Maine licensed Master Electrician, or a Maine licensed Journeyman Electrician.
 - iii) The Contractor may submit an alternate LED fixture for review and acceptance or rejection. Any alternative LED fixture will need to meet or exceed the performance and efficiency of the specified fixtures. Should the Authority not accept the Contractor’s proposed substitution the Contractor shall provide the specified fixture at no additional cost to the Authority.
- l) Section 645 – Overhead Guide Sign
 - i) Retains Section 645 of State of Maine, Department of Transportation, Standard Specifications, Revision of November 2014.
 - ii) The Contractor shall be responsible for the design of the Sign Support Structure. Sign Structure Foundation design shall be provided in Addendum.
 - iii) Requires the design, materials and fabrication of sign support structures and foundations shall meet the requirements of the current edition of AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals".
 - iv) Geotechnical report provides foundation design soil parameters.

- m) Section 670 Sewage Disposal System
 - i) Appendix C – Subsurface Wastewater Disposal System Application contains the design.
 - ii) Before any portion of the work can be backfilled, the Contractor shall make arrangements to have the Local Plumbing Inspector (LPI) inspect the work. Backfilling shall proceed pursuant to approval of the work by the Local Plumbing Inspector.
- n) Section 800 - Toll Administration Building- Lump Sum
 - i) Contractor should note all work items listed in Section 800.2 Work Included.
 - ii) Division 800 contains the building specifications.

2) Questions:

MAINE TURNPIKE AUTHORITY

Pre-Bid Conference

CONTRACT 2019.04

INTERCHANGE 103 BARRIER TOLL PLAZA
OPEN ROAD TOLLING CONVERSION
(MM 103.0)

April 2, 2019 10:00 AM

NAME (PRINT)	COMPANY	PHONE	EMAIL
Bill Moody	Stantec Consulting	603-263-4654	Bill.Moody@stantec.com
Paul Pottle	Stantec Consulting	207-303-7435	paul.pottlejr@stantec.com
Bill Austin	United Concrete	203-935-4338	baustin@unitedconcrete.com
Ralph Norwood	MTA	207-482-8348	rnorwood@maineturnpike.com
William Yates	MTA	207-482-8388	wyates@maineturnpike.com
Aste Carl	MTA	207-482-8115	ncarll@maineturnpike.com
Chris Webber	Northeast Paving	207-751-0839	christine.webber@eurovia.us
Brett Plossay	Crocker Construction	207-729-3331	brett@crocker.com
Tom Hinindoll	McGee Construction	207-212-8841 call 207-582-8810 office	thindoll@mcgeecorstruction.com
David Garcia	Reed & Reed Inc.	207-386-1045	dgarcia@reed-reed.com
Brian Holmes	Reed + Reed	207-386-5445	bholmes@reed-reed.com
Steve Perry	Sargent Corp.	207-927-4435	sperry@sargent-corp.com



Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	Lump Sum	1				
511.091	TEMPORARY EARTH SUPPORT SYSTEMS	Lump Sum	1				
515.2011	PIGMENTED CONCRETE PROTECTIVE COATING - TUNNEL AND STAIRWAY WALLS & CEILING	Square Yard	750				
515.2012	PIGMENTED CONCRETE PROTECTIVE COATING - TUNNEL FLOOR	Square Yard	270				
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	Square Yard	2,500				
515.23	EPOXY OVERLAY	Square Foot	225				
526.301	TEMPORARY CONCRETE BARRIER TYPE I (9,000 LF)	Lump Sum	1				
526.351	MEDIAN BARRIER TYPE I	Linear Foot	450				
526.3511	MEDIAN BARRIER TYPE IA - PRECAST	Linear Foot	2,816				
526.3513	MEDIAN BARRIER TYPE IB - PRECAST	Linear Foot	938				
526.3514	MEDIAN BARRIER TYPE IC - PRECAST	Linear Foot	170				
526.3515	MEDIAN BARRIER TYPE ID - PRECAST	Linear Foot	107				

CARRIED FORWARD:

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
526.3516	MEDIAN BARRIER TYPE IE - PRECAST	Linear Foot	51				
526.352	MEDIAN BARRIER TYPE II	Linear Foot	159				
526.3611	MEDIAN BARRIER TRANSITION TYPE IA - PRECAST	Each	3				
526.3612	MEDIAN BARRIER TRANSITION TYPE IB - PRECAST	Each	1				
526.362	MEDIAN BARRIER TRANSITION TYPE II - PRECAST	Each	4				
526.371	MEDIAN BARRIER WITH MOUNTED LIGHT POLE TYPE I	Each	17				
527.306	CENTER BARRIER CRASH ATTENUATOR	Each	3				
527.342	WORK ZONE CRASH CUSHIONS - TL-2	Unit	5				
527.343	WORK ZONE CRASH CUSHIONS - TL-3	Unit	7				
535.70	PRECAST CONCRETE TUNNEL	Lump Sum	1				
602.30	FLOWABLE CONCRETE FILL	Cubic Yard	8				
603.155	12 INCH REINFORCED CONCRETE PIPE - CLASS III	Linear Foot	99				

CARRIED FORWARD:

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
605.09	6 INCH UNDERDRAIN TYPE B	Linear Foot	1,729				
605.11	12 INCH UNDERDRAIN TYPE C	Linear Foot	236				
605.111	12 INCH UNDERDRAIN TYPE C - SDR	Linear Foot	3,605				
605.12	15 INCH UNDERDRAIN TYPE C	Linear Foot	236				
605.13	18 INCH UNDERDRAIN TYPE C	Linear Foot	140				
606.13	31" W-BEAM GUARDRAIL-MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	Linear Foot	2,940.625				
606.1306	31" W-BEAM GUARDRAIL-MIDWAY SPLICE TANGENT TERMINAL	Each	7				
606.131	31" W-BEAM GUARDRAIL-MID-WAY SPLICE (8' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	Linear Foot	662.5				
606.132	31" W-BEAM GUARDRAIL-MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, DOUBLE FACED)	Linear Foot	1,612.5				
606.1351	31" W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END	Each	12				
606.1724	BRIDGE TRANSITION - TYPE III, MODIFIED	Each	2				
606.2651	TERMINAL END - REMOVE AND RESET	Each	1				

CARRIED FORWARD:

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
BROUGHT FORWARD:							
652.34	CONE	Each	50				
652.35	CONSTRUCTION SIGNS	Square Foot	4,100				
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	Lump Sum	1				
652.38	FLAGGERS	Hour	100				
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	Each	4				
652.45	TRUCK MOUNTED ATTENUATOR	Each	4				
652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	Each	3				
652.46	TEMPORARY PORTABLE RUMBLE STRIP	Unit	50				
655.01	INSTALLATION OF ORT LANE CONTROLLER CABINET	Each	2				
655.012	INSTALLATION OF CASH LANE CONTROLLER CABINET	Each	6				
655.02	DVAS MOUNT INSTALLATION	Each	10				
655.03	VCARS MOUNT INSTALLATION	Each	16				

CARRIED FORWARD:

SPECIAL PROVISIONSECTION 403HOT MIX ASPHALT PAVEMENT

Course	HMA Grading	Item Number	Total Thickness	No. of Layers	Complimentary Notes
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**Turnpike I-95 Mainline &
I-295 Northbound and Southbound ORT and Cash Lanes
Full Depth Construction and Full Depth Pavement Removal**

Wearing	12.5mm	403.2081	1.5"	1	A,D,E,G,H,I,J,K
Intermediate	12.5mm	403.213	1.5"	0-1	C, I
Base	19.0mm	403.207	7"	0-3	C, I
Shim	4.75mm 19.0mm	403.211	Varies	Varies	C, I

I-295 Hot Mix Slope Paving

Wearing	9.5mm	403.209	2"	1	C
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**Exit 51 Southbound Off Ramp and Northbound Off and ON Ramps
Full Depth Construction and Full Depth Pavement Removal**

Wearing	12.5mm	403.2081	1.5"	1	A,D,E,G,H,I,J,K
Intermediate	12.5mm	403.213	1.5"	1	C, I
Base	19.0mm	403.207	3"	1	C, I

Access Road and Parking Lot

Wearing	12.5mm	403.208	2"	1	C, I
Base	12.5mm	403.213	2"	1	C, I

COMPLEMENTARY NOTES

- A. The required PGAB for this mixture shall be **64E-28**.
- B. RAP may not be used.
- C. The Maine DOT will conduct the job mix verification. The aggregate qualities shall meet the design traffic level of 3 to <10 million ESALS for mix placed under this contract. Minimum and Maximum PGAB content limits from 401.21 shall not apply.
- D. The MTA will conduct the job mix verification. The aggregate qualities shall meet the design traffic level of 10 to <30 million ESALS for mix placed under this contract. The design verification, Quality Control, and Acceptance tests for this mix will be performed at **75 gyrations**. (N design)
- E. A material transfer vehicle (MTV) shall be used for the placement of Hot Mix Asphalt wearing surface on all roadways including acceleration and deceleration lanes and all ramps.

SPECIAL PROVISION

SECTION 645

HIGHWAY SIGNING
(Overhead Guide Sign)
(Cantilever Guide Sign)

645.023 Support Structures

The first (1st) paragraph of part b is deleted and replaced by the following paragraph:

b. Bridge, Cantilever, and Butterfly Type Sign Supports The Contractor shall be responsible for the design of the support structure.

645.024 Bridge, Cantilever and Butterfly Support Structure Foundations

This subsection is deleted in its entirety and replaced with the following:

The Authority has completed an appropriate test boring program to evaluate subsurface conditions in the general vicinity of proposed foundations. The foundation requirements are provided on the Plans. Drilled shafts shall not be permanently cased, except for the top 3.0 feet; concrete shall be cast directly against the surrounding soil. The Supplier shall determine the Bending Moment, Shear Force, Torsion, and Axial Load at the top of each mast arm or dual-purpose pole foundation. The Contractor may propose an alternate shallow spread footing or drilled shaft design than that set forth on the drawings. Any Contractor-prepared foundation design shall meet the requirements set forth in Section 626.034 – Concrete Foundations.

645.09 Basis of Payment

The second sentence of the third (3rd) paragraph is deleted and replaced with the following:

Such price will be full compensation for the signs, support structures, foundations, soil and rock excavation, dewatering and fine grading and incidentals necessary to complete the work.

The thirteenth (13th) paragraph is deleted.

This subsection is amended by the addition of the following:

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
645.121	Overhead Guide Sign, NB 2 (Sta. 7450+00)	Lump Sum
645.122	Overhead Guide Sign, NB 3 (Sta. 7463+00)	Lump Sum
645.123	Overhead Guide Sign, NB 5 (Sta. 7477+25)	Lump Sum
645.124	Overhead Guide Sign, SB 1 (Sta. 4491+00)	Lump Sum
645.125	Overhead Guide Sign, SB 2 (Sta. 4508+75)	Lump Sum

645.126	Overhead Guide Sign, SB 3 (Sta. 27+00)	Lump Sum
645.127	Overhead Guide Sign, SB 4 (Sta. 43+00)	Lump Sum
645.151	Cantilever Guide Sign, NB 1 (Sta. 7427+25)	Lump Sum
645.152	Cantilever Guide Sign, NB 4 (Sta. 7471+75)	Lump Sum

ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
201.11	CLEARING	4.0	AC
201.23	REMOVING SINGLE TREE TOP ONLY	4	EA
201.24	REMOVING STUMP	4	EA
202.071	REMOVING ASBESTOS CONTAINING MATERIALS, TOLL BOOTH LAB TOPS	1	LS
202.081	REMOVING EXISTING BUILDING	1	LS
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	6	EA
202.17	REMOVING EXISTING STRUCTURAL CONCRETE	1	LS
202.202	REMOVING PAVEMENT SURFACE	27,850	SY
202.203	PAVEMENT BUTT JOINTS	1,910	SY
202.205	RUMBLE STRIPS	29,850	EA
202.206	REMOVING RUMBLE STRIPS	8,650	LF
203.20	COMMON EXCAVATION	88,000	CY
203.21	ROCK EXCAVATION	200	CY
203.2310	UNDERGROUND STORAGE TANK REMOVAL	1	LS
203.2312	DISPOSAL / TREATMENT OF SPECIAL EXCAVATION	50	TON
203.25	GRANULAR BORROW	28,325	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	2,350	CY
304.09	AGGREGATE BASE COURSE - CRUSHED	11,285	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	18,135	CY
403.207	HOT MIX ASPHALT, 190 MM NOMINAL MAXIMUM SIZE	16,150	TON
403.208	HOT MIX ASPHALT, 12.5 MM	900	TON
403.2081	HOT MIX ASPHALT, 12.5 MM (POLYMER MODIFIED) - RAP	9,110	TON
403.209	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	100	TON
403.211	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SHIMMING)	1,658	TON
403.213	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	7,570	TON
409.152	BITUMINOUS TACK COAT AT 150-175 G/GM TRACKLESS - APPLIED	15,700	GAL
419.30	SAWING BITUMINOUS PAVEMENT	5,760	LF
470.08	BERM DROPOFF CORRECTION - GRINDINGS	248	TON
470.081	BERM CORRECTION	4,500	LF
502.231	STRUCTURAL CONCRETE, SPACE FRAME PEDESTALS & FOOTINGS	96	CY
502.232	STRUCTURAL CONCRETE, UTILITY PITS	145	CY
502.261	STRUCTURAL CONCRETE, ORT SLABS	210	CY
502.262	STRUCTURAL CONCRETE, CASH SLABS	280	CY
502.263	STRUCTURAL CONCRETE, PLAZA ISLANDS, BUMPERS, AND CURTAIN WALLS	200	CY
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED & DELIVERED	43,700	LB
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	43,700	LB
503.181	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS (#5), FAB & DELIVERED	83,500	LF
503.182	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS (#12), FAB & DELIVERED	180	LF
503.191	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS (#5), PLACING	83,500	LF
503.192	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS (#12), PLACING	180	LF
503.90	SYNTHETIC FIBER REINFORCEMENT	2,450	LB
504.50	TOLL PLAZA CANOPIES	1	LS
504.80	SPACE FRAME CANOPIES, FABRICATED AND DELIVERED	1	LS
504.81	SPACE FRAME CANOPIES, ERECTION	1	LS
504.91	STEEL POST SUPPORT SYSTEMS	1	LS
504.96	MOUNTING BRACKET ASSEMBLIES	1	LS
504.96	METAL STAIRS	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	1	LS
511.091	TEMPORARY EARTH SUPPORT SYSTEMS	1	LS
515.201	PIGMENTED CONCRETE PROTECTIVE COATING - TUNNEL AND STAIRWAY WALLS & CEILING	750	SY
515.202	PIGMENTED CONCRETE PROTECTIVE COATING - TUNNEL FLOOR	270	SY
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	2,500	SY
515.23	EPOXY OVERLAY	225	SF
526.306	TEMPORARY CONCRETE BARRIER TYPE I (9,100 LF)	1	LS
526.351	MEDIAN BARRIER TYPE I	450	LF
526.3511	MEDIAN BARRIER TYPE IA - PRECAST	2,816	LF
526.3513	MEDIAN BARRIER TYPE IB - PRECAST	938	LF
526.3514	MEDIAN BARRIER TYPE IC - PRECAST	170	LF
526.3515	MEDIAN BARRIER TYPE ID - PRECAST	107	LF
526.3516	MEDIAN BARRIER TYPE IE - PRECAST	51	LF
526.352	MEDIAN BARRIER TYPE II	159	LF
526.3611	MEDIAN BARRIER TRANSITION TYPE IA - PRECAST	3	EA
526.3612	MEDIAN BARRIER TRANSITION TYPE IB - PRECAST	4	EA
526.362	MEDIAN BARRIER TRANSITION TYPE II - PRECAST	17	EA
526.371	MEDIAN BARRIER WITH MOUNTED LIGHT POLE TYPE I	3	EA
527.342	WORK ZONE CRASH CUSHIONS - TL-2	5	UNIT
527.343	WORK ZONE CRASH CUSHIONS - TL-3	7	UNIT
535.70	PRECAST CONCRETE TUNNEL	1	LS
602.30	FLOWABLE CONCRETE FILL	8	CY
603.155	12 INCH REINFORCED CONCRETE PIPE - CLASS III	99	LF
603.165	15 INCH REINFORCED CONCRETE PIPE - CLASS III	95	LF
603.175	18 INCH REINFORCED CONCRETE PIPE - CLASS III	603	LF
603.195	24 INCH REINFORCED CONCRETE PIPE - CLASS III	73	LF

Scale: _____

Designed by: _____

Revision: _____

No.	Revision	By	Date
1	QUANTITY REVISION	EJB	4/19

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

Designed	By	Date	By	Date
Drawn	PLP	3/20/19	LEM	3/20/19
	EJB	3/20/19	GAE	3/20/19

In Charge of: _____

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

Stantec

ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
603.205	30 INCH REINFORCED CONCRETE PIPE - CLASS III	40	LF
603.280	CONCRETE COLLAR FOR REINFORCED CONCRETE PIPE	2	EA
604.072	CATCH BASIN TYPE AI-C	2,125	EA
604.09	CATCH BASIN TYPE BI	5,125	EA
604.097	60" CATCH BASIN TYPE B5-C	1,125	EA
604.15	MANHOLE	2,125	EA
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	5	EA
604.245	CATCH BASIN TYPE F4-C	1	EA
604.26	CATCH BASIN TYPE B5	40	EA
605.09	6 INCH UNDERDRAIN TYPE B	1,729	LF
605.11	12 INCH UNDERDRAIN TYPE C	3,605	LF
605.12	15 INCH UNDERDRAIN TYPE C	800	LF
605.13	18 INCH UNDERDRAIN TYPE C	236	LF
606.13	31" W-BEAM GUARDRAIL-MIDWAY SPLICE (7' STEEL POSTS, 8' OFFSET BLOCKS, SINGLE FACED)	140	LF
606.1306	31" W-BEAM GUARDRAIL-MIDWAY SPLICE TANGENT TERMINAL	2,940,625	EA
606.131	31" W-BEAM GUARDRAIL-MIDWAY SPLICE (8' STEEL POSTS, 8' OFFSET BLOCKS, SINGLE FACED)	7	EA
606.132	31" W-BEAM GUARDRAIL-MIDWAY SPLICE (7' STEEL POSTS, 8' OFFSET BLOCKS, DOUBLE FACED)	662.5	LF
606.1351	31" W-BEAM GUARDRAIL - MIDWAY SPLICE (7' STEEL POSTS, 8' OFFSET BLOCKS, DOUBLE FACED)	1,612.5	LF
606.1724	BRIDGE TRANSITION - TYPE III, MODIFIED	12	EA
606.2651	TERMINAL END - REMOVE AND RESET	2	EA
606.2652	TERMINAL END - REMOVE AND STACK	1	EA
606.275	TERMINAL END - DOUBLE RAIL - GALVANIZED STEEL	9	EA
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	2	EA
606.353	DELINEATOR POST - REMOVE AND RESET	130	EA
606.3621	GUARDRAIL ADJUST, SINGLE RAIL	94	EA
606.82	GUARDRAIL - REMOVE AND STACK EXISTING CRASH END	102	EA
607.2326	AUTOMATIC ENTRY GATE	950	LF
607.40	CHAIN LINK FENCE - 3' HIGH	3,400	LF
607.41	POST ASSEMBLY FOR SIGN OR CHAIN LINK FENCE	1	EA
607.4211	DUMPSTER ENCLOSURE	1	EA
608.08	REINFORCED CONCRETE SIDEWALK	510	LF
608.26	CURB RAMP DETECTABLE WARNING FIELD	66	EA
609.11	VERTICAL CURB TYPE I	1	LS
609.12	VERTICAL CURB TYPE I - CIRCULAR	110	SY
609.234	TERMINAL CURB TYPE I - 4 FT	36	SF
609.238	TERMINAL CURB TYPE I - 8 FT	1,000	LF
610.08	PLAIN RIPRAP	200	LF
610.18	STONE DITCH PROTECTION	4	EA
610.181	TEMPORARY STONE CHECK DAM	2	EA
613.319	EROSION CONTROL BLANKET	34	CY
614.30	GEOTEXTILE CONFINEMENT SYSTEM FOR SLOPE PROTECTION	27	CY
615.07	LOAM	325	CY
618.14	SEEDING METHOD NUMBER 1	13,750	SY
619.1201	MULCH - PLAN QUANTITY	16,000	SF
619.1202	TEMPORARY MULCH	7,690	CY
619.1401	EROSION CONTROL MIX	45	UNIT
620.58	EROSION CONTROL GEOTEXTILE	584	UNIT
621.043	EVERGREEN TREE (6' - 8') GROUP A	629	UNIT
621.396	DWARF EVERGREEN (18" - 24") GROUP B	1	LS
621.512	HYBRID RHODODENDRON (2' - 2.5')	50	CY
621.553	DECIDUOUS SHRUB (3' - 4') GROUP B	910	SY
625.106	WATER SERVICE SUPPLY LINE (<3 IN)	2	EA
626.121	QUAZITE JUNCTION BOX (36X24)	8	EA
626.122	QUAZITE JUNCTION BOX (18X11)	3	EA
626.13	4" X 6" SPLICE BOX WITH ACCESS DOOR	4	EA
626.21	NON-METALLIC CONDUIT	2,400	LF
626.22	HORIZONTAL DIRECTIONAL DRILLED CONDUIT	11	EA
626.223	18 INCH DIAMETER FOUNDATION	75	EA
626.31	24 INCH DIAMETER FOUNDATION	5	EA
626.32	30 INCH DIAMETER FOUNDATION, 8 FEET OR LESS	310	LF
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	35,500	LF
627.18	12 INCH SOLID WHITE PAVEMENT MARKING LINE	530	LF
627.681	TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE - YELLOW OR WHITE	33	EA
627.73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	94	EA
627.731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE	8	EA
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	66	EA
627.744	6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	9,100	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	97,400	LF
627.77	REMOVING EXISTING PAVEMENT MARKING	7,050	LF
		7,050	LF
		1,520	LF
		51,900	SF
		1,220	SF
		37,650	SF

INTERCHANGE 103
ORT CONVERSION
ESTIMATED QUANTITIES 1

THE GOLD STAR
MEMORIAL HIGHWAY

MAINE
TURNPIKE

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2019.04

SHEET NUMBER: QN-01

2 OF 503

ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
627.812	TEMPORARY RAISED PAVEMENT MARKERS	2,000	EA
627.94	PERMANENT PAVEMENT MARKING TAPE	335	LF
627.941	PAVEMENT MARKING TAPE - DOTTED WHITE LANE LINE, 6-INCH WIDE	820	LF
627.944	PAVEMENT MARKING - RECESSED TAPE - WORDS, ARROWS AND STOP BARS	170	SF
629.05	HAND LABOR, STRAIGHT TIME	70	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	70	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	70	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	70	HR
631.14	GRADER (INCLUDING OPERATOR)	70	HR
631.171	TRUCK - SMALL (INCLUDING OPERATOR)	70	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	30	HR
631.21	ROAD BROOM (INCLUDING OPERATORS AND HAULER)	10	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	70	HR
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	20	HR
631.36	FOREMAN	70	HR
631.50	JACKHAMMER (AIR TOOL INCLUDING OPERATOR)	60	HR
631.51	BUCKET TRUCK	60	HR
631.52	SCISSOR LIFT	60	HR
631.53	ELECTRICIAN	100	HR
631.54	ELECTRICIAN'S APPRENTICE	100	HR
631.55	PLUMBER	60	HR
632.01	OVER HEIGHT VEHICLE DETECTION SYSTEM: EXIT 103 AREA	1	LS
633.01	PROPANE SERVICE TRENCH	66	LF
633.21	PROPANE TANK SUPPORTS	2	EA
633.31	PROPANE TANK PAD	27	SY
634.051	REMOVE AND STACK LIGHT STANDARD	9	EA
634.052	REMOVE HIGH MAST LIGHT STANDARD	2	EA
634.208	REMOVE AND RESET LIGHT STANDARD	1	EA
634.231	CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE	81	EA
639.18	FIELD OFFICE, TYPE A	1	EA
643.711	LANE USE SIGNAL INSTALLATION	6	EA
643.712	FLASHING BEACON - SOLAR POWERED	2	EA
645.105	REMOVE AND STACK SIGN	111	EA
645.107	REMOVE AND STACK CANOPY MOUNTED SIGN	10	EA
645.109	REMOVE AND RESET SIGN	7	EA
645.1092	CANOPY MOUNTED DYNAMIC MESSAGE SIGN	4	EA
645.121	OVERHEAD GUIDE SIGN NB 2 (STA. 7450+00)	1	LS
645.122	OVERHEAD GUIDE SIGN NB 3 (STA. 7463+00)	1	LS
645.123	OVERHEAD GUIDE SIGN NB 5 (STA. 7477+25)	1	LS
645.124	OVERHEAD GUIDE SIGN SB 1 (STA. 4491+00)	1	LS
645.125	OVERHEAD GUIDE SIGN SB 2 (STA. 4508+75)	1	LS
645.126	OVERHEAD GUIDE SIGN SB 3 (STA. 27+00)	1	LS
645.127	OVERHEAD GUIDE SIGN SB 4 (STA. 43+00)	1	LS
645.14	CANOPY MOUNTED SIGN	4	EA
645.151	CANTILEVER GUIDE SIGN NB 1 (STA. 7427+25)	1	LS
645.152	CANTILEVER GUIDE SIGN NB 4 (STA. 7471+75)	1	LS
645.155	VARIABLE SPEED LIMIT SIGN	2	EA
645.161	BREAKAWAY DEVICE SINGLE POLE	51	EA
645.162	BREAKAWAY DEVICE MULTI POLE	24	EA
645.251	ROADSIDE GUIDE SIGNS, TYPE 1	1,065	SF
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN, TYPE 1	1,440	SF
645.289	STEEL H-BEAM POLES	24,020	LB
645.501	REMOVE AND RESET MAINLINE SIGN STA. 7401+23 (2 SIGNS)	1	LS
645.502	REMOVE AND RESET MAINLINE SIGN STA. 7440+50 (1 SIGN)	1	LS
645.503	REMOVE AND RESET MAINLINE SIGN STA. 7467+00 (1 SIGN)	1	LS
645.504	REMOVE AND RESET MAINLINE SIGN STA. 7470+29 (1 SIGN)	1	LS
645.505	REMOVE AND RESET MAINLINE SIGN STA. 3488+27 (1 SIGN)	1	LS
645.506	REMOVE AND RESET MAINLINE SIGN STA. 4474+00 (1 SIGN)	1	LS
645.507	REMOVE AND RESET MAINLINE SIGN STA. 789+50 (1 SIGN)	1	LS
645.508	REMOVE AND RESET MAINLINE SIGN STA. 8492+00 (1 SIGN)	1	LS
645.509	REMOVE AND RESET MAINLINE SIGN STA. 7515+00 (1 SIGN)	1	LS
645.601	REMOVE AND STACK OVERHEAD SIGN STRUCTURE (NB ORT)	1	LS
645.602	REMOVE AND STACK OVERHEAD SIGN STRUCTURE (SB CASH)	1	LS
648.00	INSTALL FLAGPOLE	1	EA
652.30	FLASHING ARROW	1	EA
652.312	TYPE III BARRICADES	21	EA
652.33	DRUM	200	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	4,100	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	100	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	4	EA
652.45	TRUCK MOUNTED ATTENUATOR	4	EA
652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	3	EA

Scale:

Designed by:

No.	Revision	By	Date
1	REVISED QUANTITY AND UNIT	EJB	4/19

Designed	By	Date	Checked	By	Date
	PLP	3/20/19		LEM	3/20/19
Drawn	EJB	3/20/19	In Charge of	GAE	3/20/19



STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
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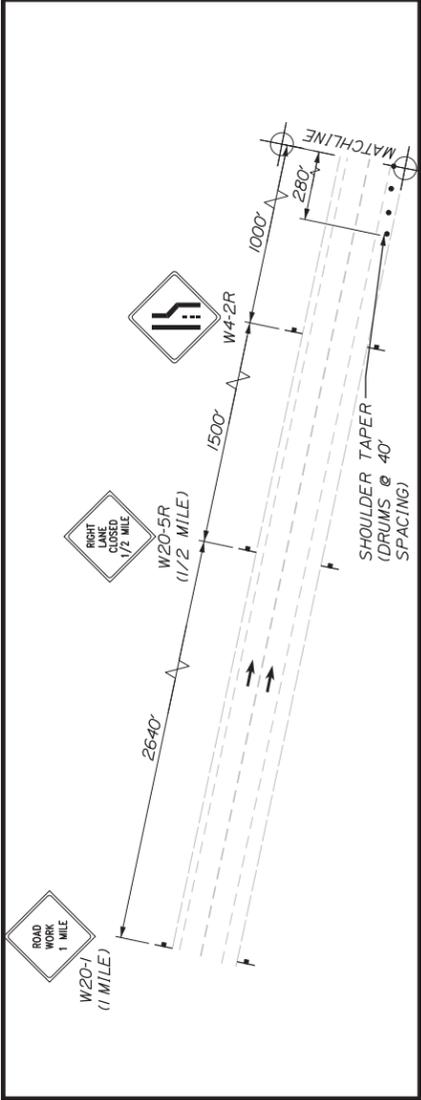
THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 PORT CONVERSION
 ESTIMATED QUANTITIES 2

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE
 CONTRACT: 2019.04

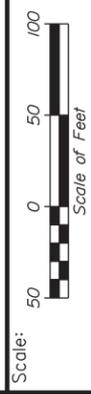
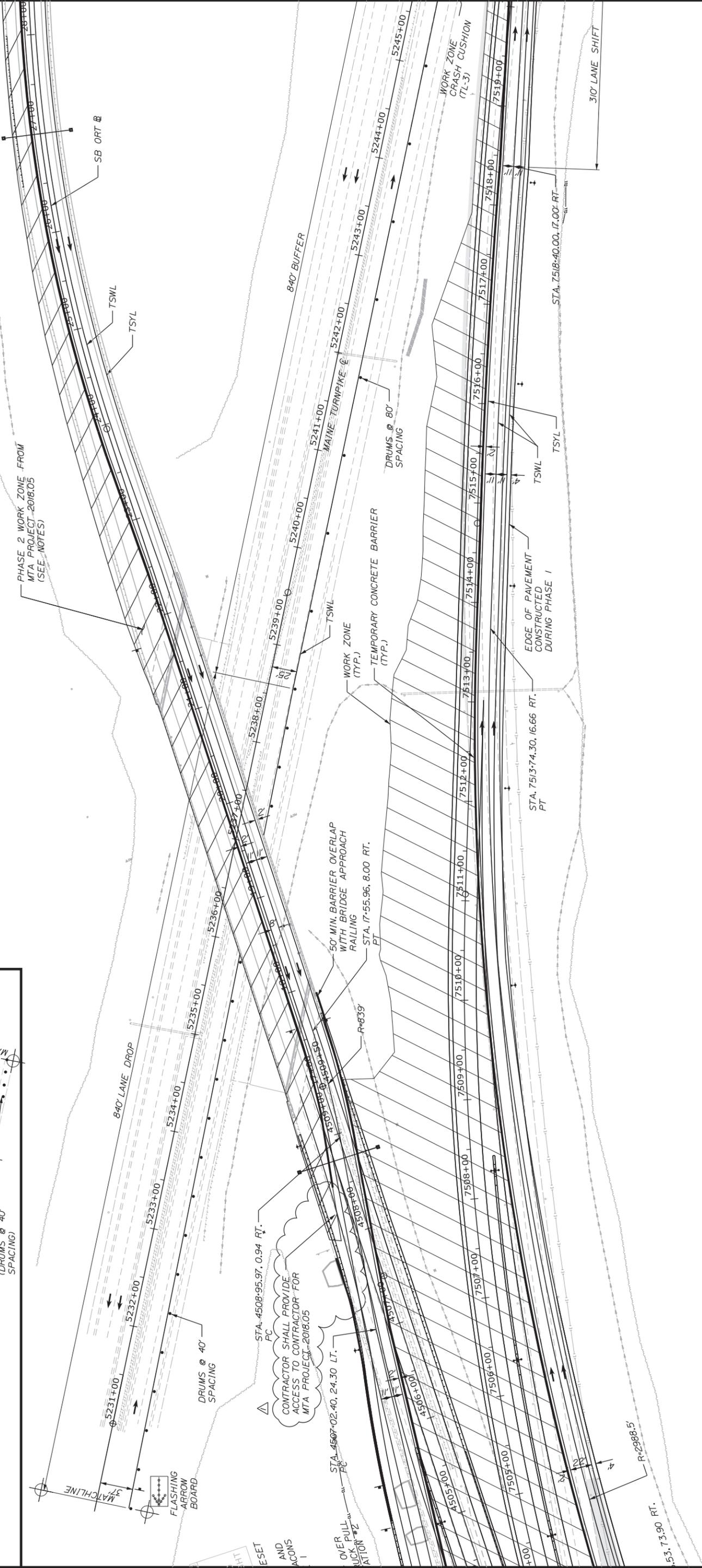
SHEET NUMBER: QN-02
 3 OF 503

ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
652.46	TEMPORARY PORTABLE RUMBLE STRIP	50	UNIT
655.01	INSTALLATION OF ORT LANE CONTROLLER CABINET	2	EA
655.02	INSTALLATION OF CASH LANE CONTROLLER CABINET	6	EA
655.02	DVAS MOUNT INSTALLATION	10	EA
655.03	VCARS MOUNT INSTALLATION	16	EA
655.04	INSTALLATION OF SENSOR LOOPS	1	LS
655.05	INSTALLATION OF AVI ANTEMMAS	20	EA
655.06	INSTALLATION OF AVI READERS	4	EA
655.07	TRAFFIC CONTROL PEDESTAL PREPARATION WORK	18	EA
655.08	OPUS MOUNT INSTALLATION	300	LF
655.09	ARMORED CABLE - 10/3	2,900	LF
655.100	#2/0 AWG WIRE	1,600	LF
655.1004	#4/0 AWG WIRE	2,000	LF
655.101	#1 AWG WIRE	1,600	LF
655.102	#2 AWG WIRE	1,000	LF
655.104	#4 AWG WIRE	1,400	LF
655.106	#6 AWG WIRE	600	LF
655.108	#8 AWG WIRE	1,200	LF
655.11	#10 AWG WIRE	600	LF
655.12	#12 AWG WIRE	2,400	LF
655.14	4PR/24 (CATEGORY 5E) CABLE	45,600	LF
655.15	LMR 400 CABLE	31,200	LF
655.161	MULTIMODE FIBER OPTIC CABLE - 6 FIBER	2,040	LF
655.162	SINGLE MODE FIBER OPTIC CABLE - 6 FIBER	2,000	LF
655.17	IVIS HOMERUN LOOP CABLE (IMSA 50-2 *14)	3,500	LF
655.2001	11/2" SCHEDULE 40 PVC CONDUIT	7,140	LF
655.2002	1" SCHEDULE 40 PVC CONDUIT	300	LF
655.2003	2" SCHEDULE 40 PVC CONDUIT	300	LF
655.201	3" SCHEDULE 40 PVC CONDUIT	300	LF
655.202	4" SCHEDULE 40 PVC CONDUIT	240	LF
655.2021	1" SCHEDULE 80 PVC CONDUIT	360	LF
655.2031	2" SCHEDULE 80 PVC CONDUIT	420	LF
655.204	3" SCHEDULE 80 PVC CONDUIT	840	LF
655.205	4" SCHEDULE 80 PVC CONDUIT	480	LF
655.2051	6" SCHEDULE 80 PVC CONDUIT	2,550	LF
655.206	1" GALVANIZED RIGID METAL CONDUIT	360	LF
655.207	11/2" GALVANIZED RIGID METAL CONDUIT	480	LF
655.208	2" GALVANIZED RIGID METAL CONDUIT	360	LF
655.209	3" GALVANIZED RIGID METAL CONDUIT	480	LF
655.210	3/4" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	360	LF
655.2101	11/2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	360	LF
655.2102	2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	120	LF
655.211	11/2" ELECTRICAL METALLIC TUBING CONDUIT	120	LF
655.212	2" ELECTRICAL METALLIC TUBING CONDUIT	120	LF
655.213	3" ELECTRICAL METALLIC TUBING CONDUIT	120	LF
655.214	4" ELECTRICAL METALLIC TUBING CONDUIT	120	LF
655.215	3/4" ELECTRICAL METALLIC TUBING CONDUIT	120	LF
655.221	TYPE A PULL BOX INSIDE	20	EA
655.222	TYPE C PULL BOX IN TUNNEL/BOOTH PIT	24	EA
655.223	TYPE D PULL BOX OUTDOOR CANOPY	6	EA
655.224	TYPE E PULL BOX STEEL IN BOOTH	12	EA
655.225	TYPE F PULL BOX OUTSIDE	24	EA
655.30	12" X 12" X 6" GALVANIZED JUNCTION BOX	90	EA
655.31	18" X 18" X 6" GALVANIZED JUNCTION BOX	6	EA
655.40	18" X 24" X 12" JUNCTION BOX	8	EA
655.42	36" X 30" X 20" NEMA 4X CABINET	6	EA
655.43	60 AMP 3 PHASE PANELBOARD CABINET	8	EA
655.44	100 AMP 3 PHASE PANELBOARD CABINET	2	EA
655.45	150 AMP 3 PHASE PANELBOARD CABINET	2	EA
655.50	2" SCHEDULE 80 PVC CONDUIT CONDULETS	10	EA
655.51	4" SCHEDULE 80 PVC CONDUIT CONDULETS	10	EA
655.511	3/4" RIGID METAL CONDUIT CONDULETS	10	EA
655.52	1" RIGID METAL CONDUIT CONDULETS	20	EA
655.53	1/2" RIGID METAL CONDUIT CONDULETS	50	EA
655.54	2" RIGID METAL CONDUIT CONDULETS	50	EA
655.55	3" ELECTRICAL METAL TUBING CONDULETS	40	EA
655.56	2" ELECTRICAL METAL TUBING CONDULETS	40	EA
655.57	1/2" ELECTRICAL METAL TUBING CONDULETS	40	EA



NOTES:

1. THE MTA PROJECT 2018.05 CONTRACT IS SCHEDULED TO BE SUBSTANTIALLY COMPLETE BY NOVEMBER 18, 2019. THIS INCLUDES BEING ABLE TO BE FULLY OPENED TO TRAFFIC INCLUDING SHOULDERS, GUARDRAIL SURFACE PAVEMENT AND SIGNAGE. PRIOR TO SUBSTANTIAL COMPLETION THE 2018.05 CONTRACTOR WILL BE REMOVING THEIR MAINTENANCE OF TRAFFIC PACKAGE AND REMOVING THE TEMPORARY TRAFFIC BARRIER FROM STATION 4508+00 TO STATION 29+50. THE 2018.04 CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE MAINTENANCE OF TRAFFIC DEVICES AND TEMPORARY BARRIER TO MEET THE CONTRACT REQUIREMENTS INCLUDING WINTER TIME REQUIREMENTS. SEE THE PHASE 3 MAINTENANCE OF TRAFFIC PLANS FOR THE BRIDGE LANE CONFIGURATION ONCE THE 2018.05 CONTRACTOR IS SUBSTANTIALLY COMPLETE.
2. CONTRACTOR SHALL COORDINATE WITH BRIDGE CONTRACTOR FOR MTA PROJECT 2018.05. TRAFFIC IS ASSUMED TO BE IN PHASE 1 OF BRIDGE CONSTRUCTION AT THE BEGINNING OF PHASE 1. CONTRACTOR SHALL COORDINATE WITH BRIDGE CONTRACTOR WHEN PROJECT 2018.05 TRANSITIONS TO PHASE 2.



Designed by:



By	Date	By	Date
PLP	3/20/19	Checked	LEM 3/20/19
EJB	3/20/19	In Charge of	GAE 3/20/19

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
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 FAX (207) 883-3376



**THE GOLD STAR
MEMORIAL HIGHWAY**

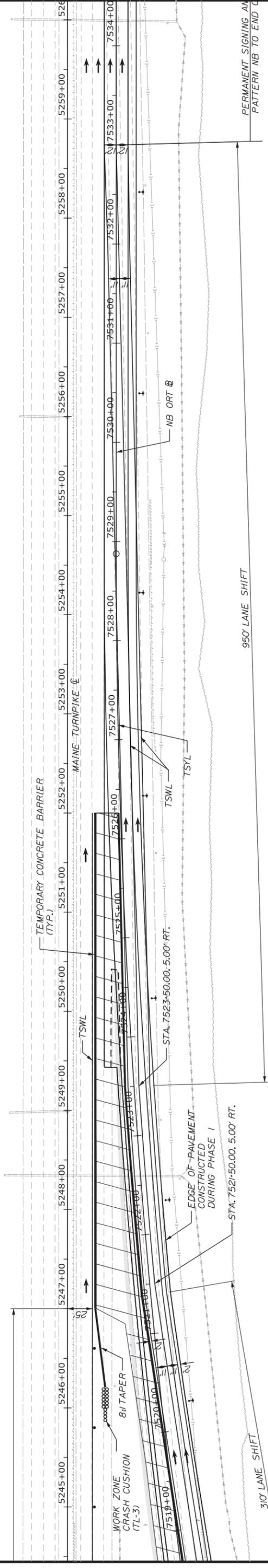
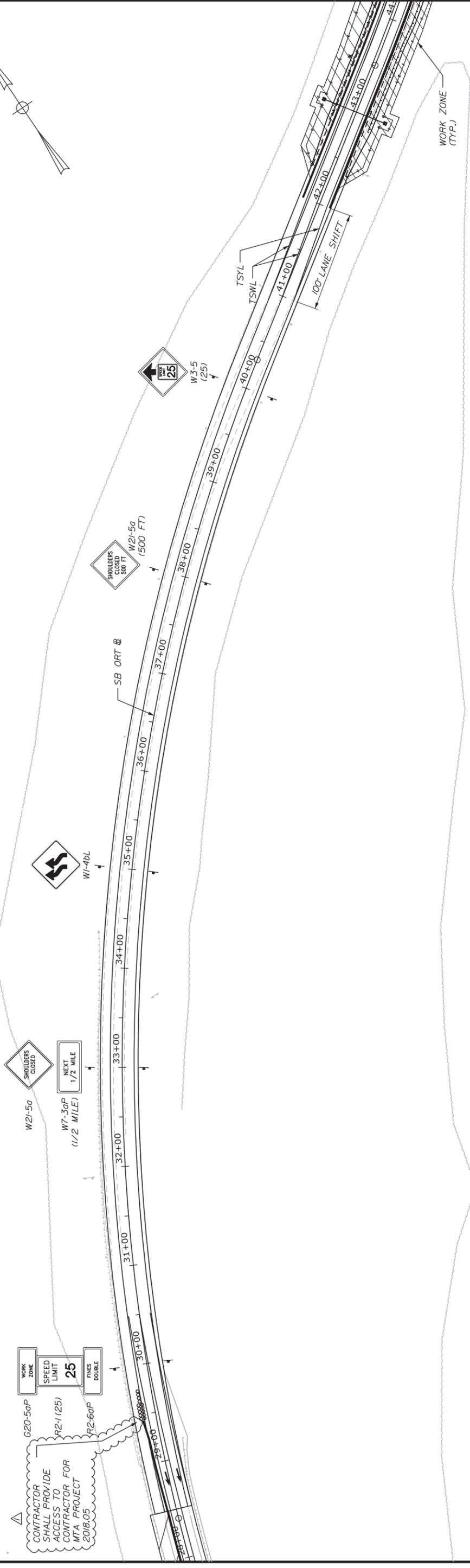
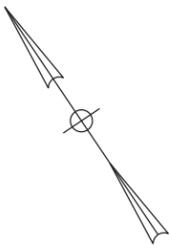
**INTERCHANGE 103
ORT CONVERSION
PHASE 2
MAINTENANCE OF TRAFFIC PLAN 3**

CONTRACT: 2019.04

SHEET NUMBER: MOT2-02

32 OF 503

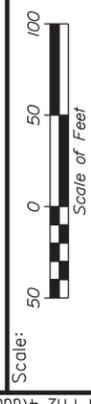
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WORK ZONE
 SPEED LIMIT 25
 FINES DOUBLE
 G20-5aP
 R2-1 (25)
 R2-6aP
 CONTRACTOR SHALL PROVIDE ACCESS TO CONTRACTOR FOR MTA PROJECT 2018.05

SHOULDERS CLOSED
 NEXT 1/2 MILE
 W2-5a
 W7-3aP (1/2 MILE)
 W1-4bL

SHOULDERS CLOSED 300 FT
 W2-5a (500 FT)
 W3-5 (25)



No.	Revision	By	Date
1	ADDED NOTE	EJB	4/19

Designed by:
 Stantec
 CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

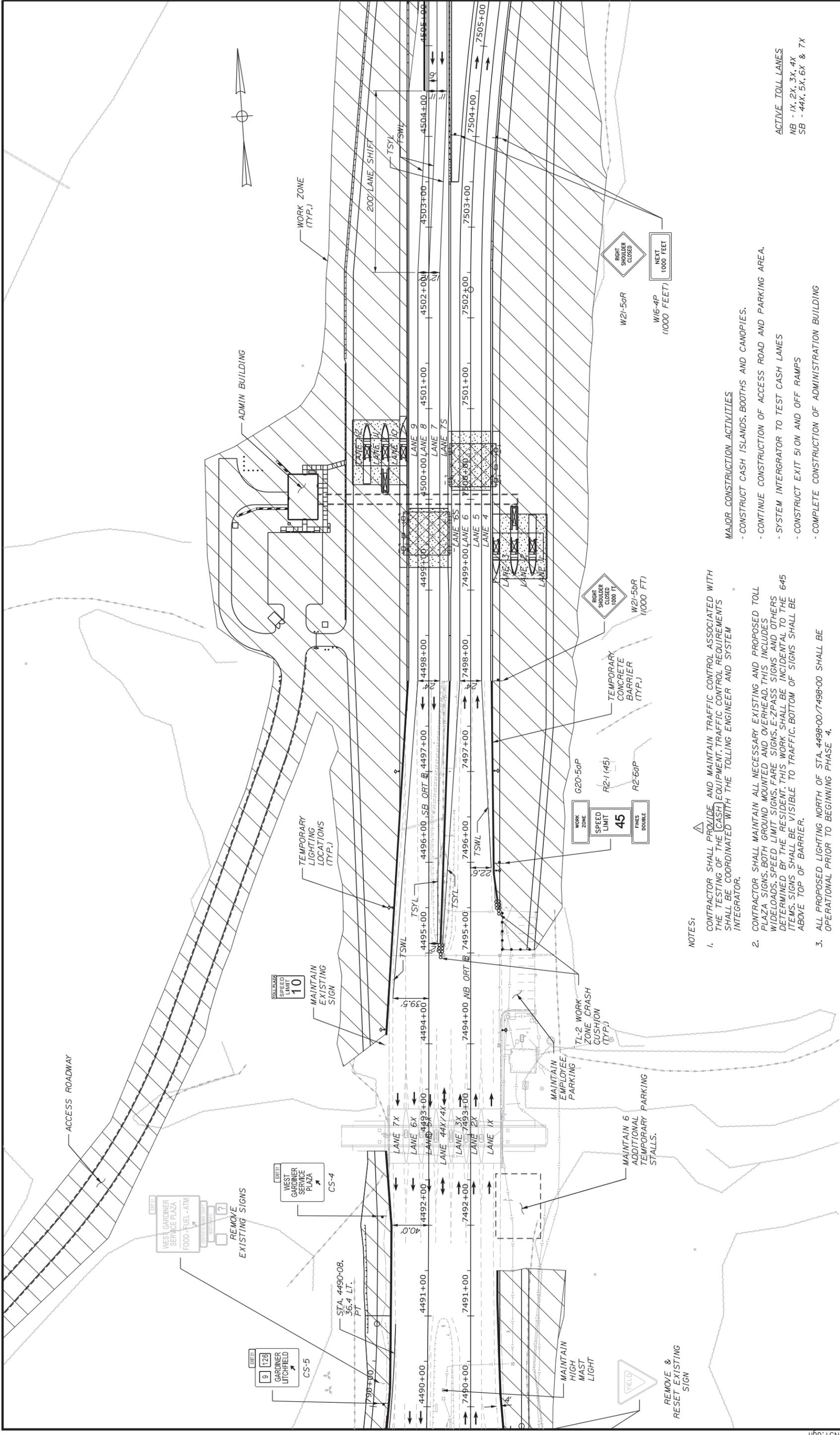
By	Date	By	Date
PLP	3/20/19	Checked	LEM 3/20/19
EJB	3/20/19	In Charge of	GAE 3/20/19



THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 ORT CONVERSION
 PHASE 2
 MAINTENANCE OF TRAFFIC PLAN 4

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- NOTES:**
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL ASSOCIATED WITH THE TESTING OF THE CASH EQUIPMENT. TRAFFIC CONTROL REQUIREMENTS SHALL BE COORDINATED WITH THE TOLLING ENGINEER AND SYSTEM INTEGRATOR.
 - CONTRACTOR SHALL MAINTAIN ALL NECESSARY EXISTING AND PROPOSED TOLL PLAZA SIGNS, BOTH GROUND MOUNTED AND OVERHEAD. THIS INCLUDES WIDELOADS, SPEED LIMIT SIGNS, FARE SIGNS, E-ZPASS SIGNS AND OTHERS DETERMINED BY THE RESIDENT. THIS WORK SHALL BE INCIDENTAL TO THE 645 ITEMS. SIGNS SHALL BE VISIBLE TO TRAFFIC. BOTTOM OF SIGNS SHALL BE ABOVE TOP OF BARRIER.
 - ALL PROPOSED LIGHTING NORTH OF STA. 4498+00/7498+00 SHALL BE OPERATIONAL PRIOR TO BEGINNING PHASE 4.

- MAJOR CONSTRUCTION ACTIVITIES**
- CONSTRUCT CASH ISLANDS, BOOTHS AND CANOPIES.
 - CONTINUE CONSTRUCTION OF ACCESS ROAD AND PARKING AREA.
 - SYSTEM INTEGRATOR TO TEST CASH LANES
 - CONSTRUCT EXIT 510N AND OFF RAMP
 - COMPLETE CONSTRUCTION OF ADMINISTRATION BUILDING

ACTIVE TOLL LANES
 NB - 1X, 2X, 3X, 4X
 SB - 44X, 5X, 6X & 7X

Scale: 50 100
 Scale of Feet

No.	Revision	By	Date
1	REVISED NOTE 1	EJB	4/19

Designed by:

By	Date	By	Date
PLP	3/20/19	Checked	LEM 3/20/19
EJB	3/20/19	In Charge of	GAE 3/20/19

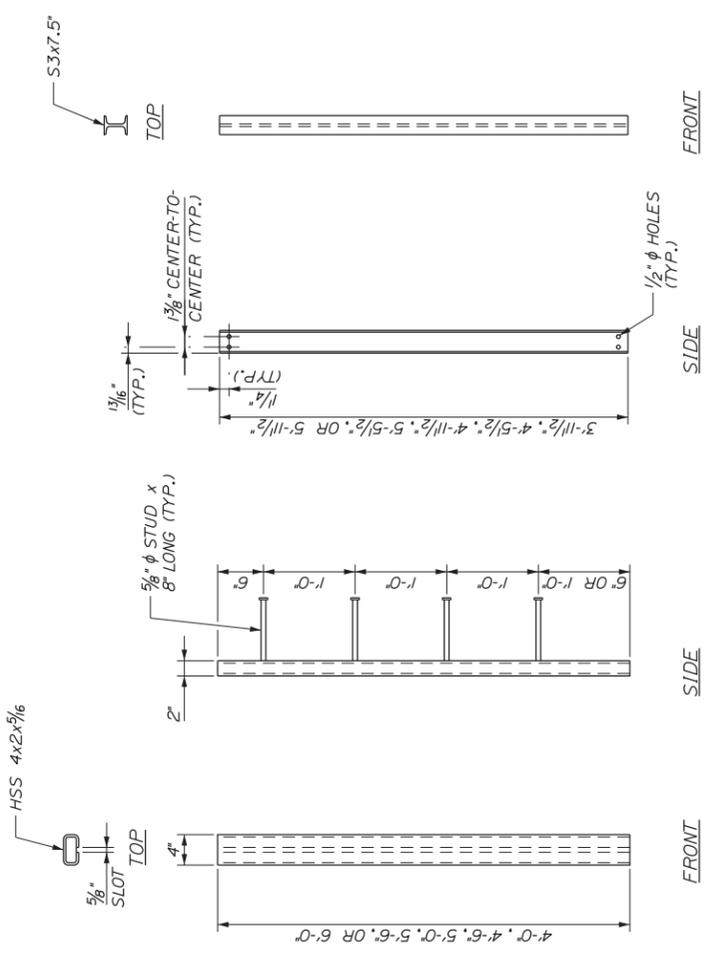
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MAINE TURNPIKE

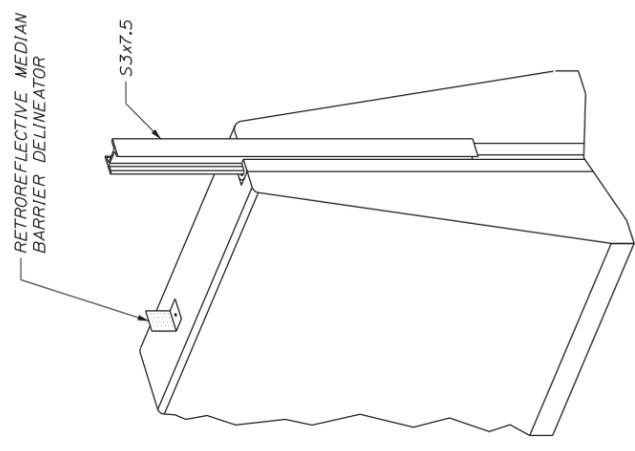
THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 ORT CONVERSION
 PHASE 3
 MAINTENANCE OF TRAFFIC PLAN 2

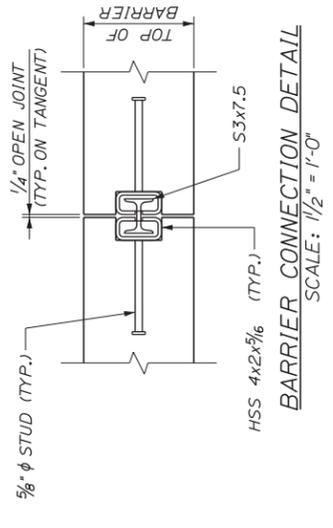


STRUCTURAL TUBE DETAILS
SCALE: 1" = 1'-0"

I-BEAM DETAILS
SCALE: 1" = 1'-0"



PERSPECTIVE VIEW
SCALE: 1" = 1'-0"



BARRIER CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

BARRIER NOTES

1. THE CONCRETE BARRIER DETAILS AS SHOWN ARE IN COMPLIANCE WITH THE REQUIREMENTS OF NCHRP REPORT 350, TL-4.
2. I-BEAMS AND STRUCTURAL TUBES SHALL BE GALVANIZED AFTER FABRICATION.
3. SHOP DRAWINGS SHALL INCLUDE REINFORCING SCHEDULE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ANGLE POINTS IN BARRIER.
4. MEDIAN BARRIER SHALL BE PAID FOR UNDER APPROPRIATE 526 ITEMS.
5. BARRIERS SHALL BE LIGHT COLORED CLASS 'P' CONCRETE HAVING A MINIMUM 28 DAY COMPRESSION STRENGTH OF 4500 PSI. BARRIERS SHALL HAVE A SMOOTH UNIFORM SURFACE FREE OF DEFECTS AND IRREGULARITIES. CASTING DATE SHALL BE SHOWN ON THE BARRIER. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED UNLESS OTHERWISE NOTED.
6. ALL REINFORCING STEEL SHALL BE AASHTO M31 (ASTM-A615) GRADE 60, EPOXY COATED. REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED.
7. CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED ON-SITE AND APPROVED BY THE RESIDENT. COATING SHALL BE INCIDENTAL TO BARRIER.

526.351	MEDIAN BARRIER TYPE I - PRECAST (LF)	250 LF
STA. 4496+00, RT.	TO STA. 4498+50, RT.	56 LF
STA. 7492+54, RT.	TO STA. 7494+00, RT.	146 LF
STA. 4492+50, LT.	TO STA. 4493+00, LT.	50 LF
526.351L	MEDIAN BARRIER TYPE IA - PRECAST (LF)	14 LF
STA. 4487+70, RT.	TO STA. 4487+84, RT.	14 LF
STA. 4490+08, RT.	TO STA. 4490+57.79, RT.	49.79 LF
STA. 4491+22.20, RT.	TO STA. 4496+00, RT.	54.80 LF
STA. 4498+50, RT.	TO STA. 4498+95, RT.	45 LF
STA. 4501+05, RT.	TO STA. 4502+22, RT.	17 LF
STA. 7488+00, RT.	TO STA. 7492+54, RT.	454 LF
STA. 7494+00, RT.	TO STA. 7497+11, RT.	311 LF
STA. 7497+41, RT.	TO STA. 7497+50, RT.	9 LF
STA. 7502+32, RT.	TO STA. 7502+55, RT.	23 LF
STA. 7502+85, RT.	TO STA. 7503+80, RT.	95 LF
STA. 7506+48, RT.	TO STA. 7508+12, RT.	164 LF
STA. 4488+50, LT.	TO STA. 4489+77, LT.	147 LF
STA. 4490+07, LT.	TO STA. 4491+65, LT.	158 LF
STA. 4493+00, LT.	TO STA. 4493+48, LT.	48 LF
STA. 4491+95, LT.	TO STA. 4492+50, LT.	55 LF
STA. 4493+78, LT.	TO STA. 4495+29, LT.	151 LF
STA. 4495+59, LT.	TO STA. 4497+13, LT.	154 LF
STA. 4497+43, LT.	TO STA. 4498+65, LT.	142 LF
STA. 4499+15, LT.	TO STA. 4500+92, LT.	177 LF
STA. 4504+56, LT.	TO STA. 4504+81, LT.	25 LF
STA. 4505+11, LT.	TO STA. 4505+30, LT.	19 LF
526.351J	MEDIAN BARRIER TYPE IB - PRECAST (LF)	224 LF
STA. 4487+84, RT.	TO STA. 4490+08, RT.	224 LF
STA. 4502+22, RT.	TO STA. 4503+30, RT.	108 LF
STA. 7497+50, RT.	TO STA. 7498+79, RT.	129 LF
STA. 7499+09, RT.	TO STA. 7500+42, RT.	133 LF
STA. 7501+58, RT.	TO STA. 7502+32, RT.	74 LF
STA. 7503+80, RT.	TO STA. 7504+37, RT.	57 LF
STA. 7504+67, RT.	TO STA. 7506+18, RT.	151 LF
STA. 4501+22, LT.	TO STA. 4501+36, LT.	14 LF
STA. 4504+08, LT.	TO STA. 4504+56, LT.	48 LF
526.351K	MEDIAN BARRIER TYPE IC - PRECAST (LF)	43 LF
STA. 7500+42, RT.	TO STA. 7500+85, RT.	43 LF
STA. 7501+15, RT.	TO STA. 7501+58, RT.	43 LF
STA. 4501+36, LT.	TO STA. 4501+74, LT.	38 LF
STA. 4503+62, LT.	TO STA. 4504+08, LT.	46 LF
526.351S	MEDIAN BARRIER TYPE I - PRECAST (LF)	250 LF
STA. 4501+74, LT.	TO STA. 4502+30, LT.	56 LF
STA. 4503+11, LT.	TO STA. 4503+62, LT.	51 LF
526.351E	MEDIAN BARRIER TYPE IE - PRECAST (LF)	51 LF
STA. 4502+30, LT.	TO STA. 4502+81, LT.	51 LF
526.352	MEDIAN BARRIER TYPE II (LF)	24.5 LF
STA. 4490+87.75, RT.	TO STA. 4491+12.25, RT.	24.5 LF
STA. 4499+23, RT.	TO STA. 4499+47, RT.	19 LF
STA. 4499+48, RT.	TO STA. 4499+77, RT.	29 LF
STA. 4499+81, RT.	TO STA. 4500+19, RT.	38 LF
STA. 4500+23, RT.	TO STA. 4500+52, RT.	29 LF
STA. 4500+56, RT.	TO STA. 4500+75, RT.	19 LF
526.361L	MEDIAN BARRIER TRANSITION TYPE IA - PRECAST (EA)	1 EA
STA. 4487+50, RT.	TO STA. 4487+70, RT.	1 EA
STA. 7487+80, RT.	TO STA. 7488+00, RT.	1 EA
STA. 4505+30, LT.	TO STA. 4505+50, LT.	1 EA
526.361J	MEDIAN BARRIER TRANSITION TYPE IB - PRECAST (EA)	1 EA
STA. 4503+30, RT.	TO STA. 4503+50, RT.	1 EA
526.362	MEDIAN BARRIER TRANSITION TYPE II - PRECAST (EA)	1 EA
STA. 4490+57.79, RT.	TO STA. 4490+87.76, RT.	1 EA
STA. 4491+12.24, RT.	TO STA. 4491+42.20, RT.	1 EA
STA. 4498+95, RT.	TO STA. 4499+25, RT.	1 EA
STA. 4500+75, RT.	TO STA. 4501+05, RT.	1 EA
526.371	MEDIAN BARRIER WITH MOUNTED LIGHT POLE TYPE I (EA)	1 EA
STA. 7497+11, RT.	TO STA. 7497+41, RT.	1 EA
STA. 7498+79, RT.	TO STA. 7499+09, RT.	1 EA
STA. 7500+85, RT.	TO STA. 7501+15, RT.	1 EA
STA. 7502+55, RT.	TO STA. 7502+85, RT.	1 EA
STA. 7504+37, RT.	TO STA. 7504+67, RT.	1 EA
STA. 7506+18, RT.	TO STA. 7506+48, RT.	1 EA
STA. 7508+12, RT.	TO STA. 7508+42, RT.	1 EA
STA. 4488+50, LT.	TO STA. 4488+80, LT.	1 EA
STA. 4489+77, LT.	TO STA. 4490+07, LT.	1 EA
STA. 4491+65, LT.	TO STA. 4491+95, LT.	1 EA
STA. 4493+48, LT.	TO STA. 4493+78, LT.	1 EA
STA. 4495+29, LT.	TO STA. 4495+59, LT.	1 EA
STA. 4497+13, LT.	TO STA. 4497+43, LT.	1 EA
STA. 4498+65, LT.	TO STA. 4499+15, LT.	1 EA
STA. 4500+92, LT.	TO STA. 4501+22, LT.	1 EA
STA. 4504+81, LT.	TO STA. 4503+11, LT.	1 EA
STA. 4504+81, LT.	TO STA. 4505+11, LT.	1 EA

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**INTERCHANGE 103
ORT CONVERSION
BARRIER DETAILS 1**

Scale:

No.	Revision	By	Date
1	BARRIER REVISIONS	EJB	4/19

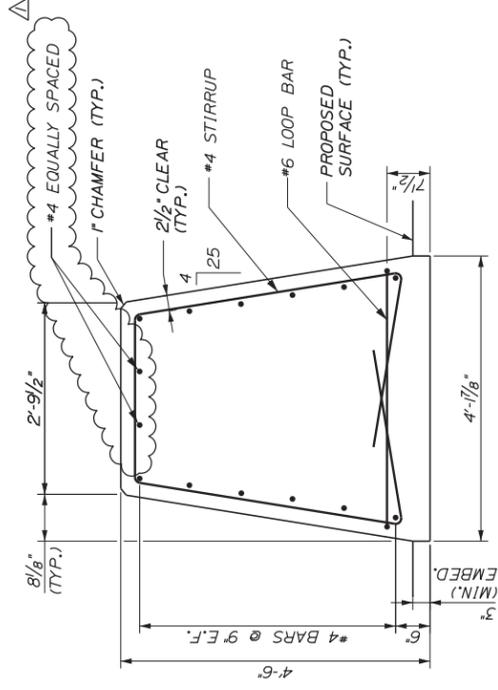
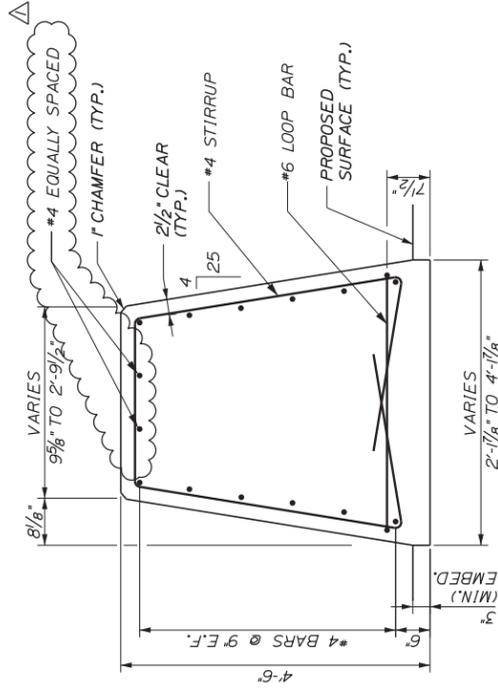
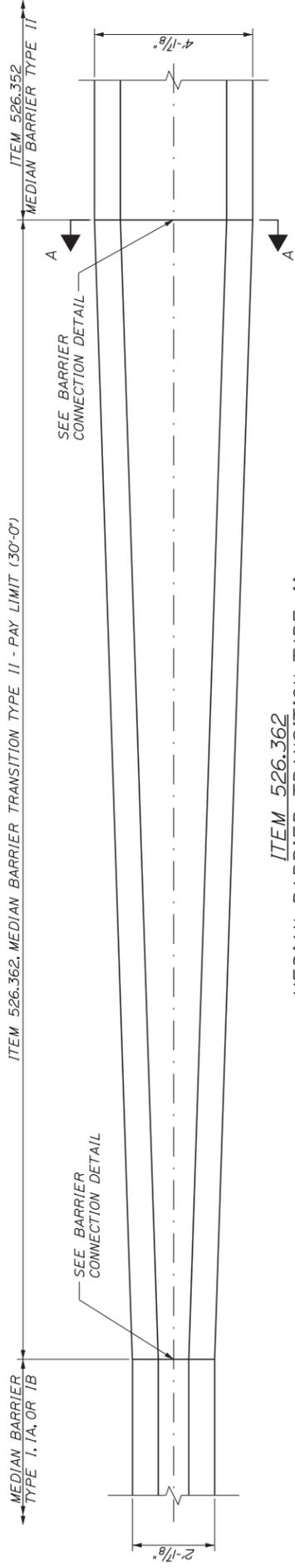
Designed by:

By	Date	By	Date
PLP	3/20/19	Checked	LEM 3/20/19
EJB	3/20/19	In Charge of	GAEL 3/20/19

CONTRACT: 2019.04

SHEET NUMBER: DET-04

103 OF 503



NOTES

- BARRIER FROM STA. 4499+43.75 RT. TO STA. 4499+47.75 RT., STA. 4499+77.00 RT. TO STA. 4499+81.00 RT., STA. 4500+19.00 RT. TO STA. 4500+23.00 RT. AND STA. 4500+52.25 RT. TO STA. 4500+56.25 RT. IS PART OF THE ORT SPACE FRAME PEDESTAL AND SHALL BE PAID FOR UNDER ITEM 502.231. THE BARRIER SHALL HAVE THE SHAPE OF MEDIAN BARRIER TYPE II.
- SEE BARRIER DETAILS 1 FOR NOTES AND BARRIER CONNECTION DETAILS.
- SPACING OF #4 STIRRUPS AND #6 LOOP BARS SHALL BE SIMILAR TO SPACING OF MEDIAN BARRIER TYPE II, AS SHOWN ON BARRIER DETAILS 2.
- MEDIAN BARRIER TRANSITION TYPE II MAY BE CAST-IN-PLACE AT THE CONTRACTOR'S OPTION.

Scale:

No.	Revision	By	Date
1	BARRIER & NOTE REVISIONS	EJB	4/19

Designed	By	Date	Checked	By	Date
PLP	3/20/19	3/20/19	LEM	3/20/19	3/20/19
Drawn	EJB	3/20/19	In Charge of	GAE	3/20/19

Designed by:



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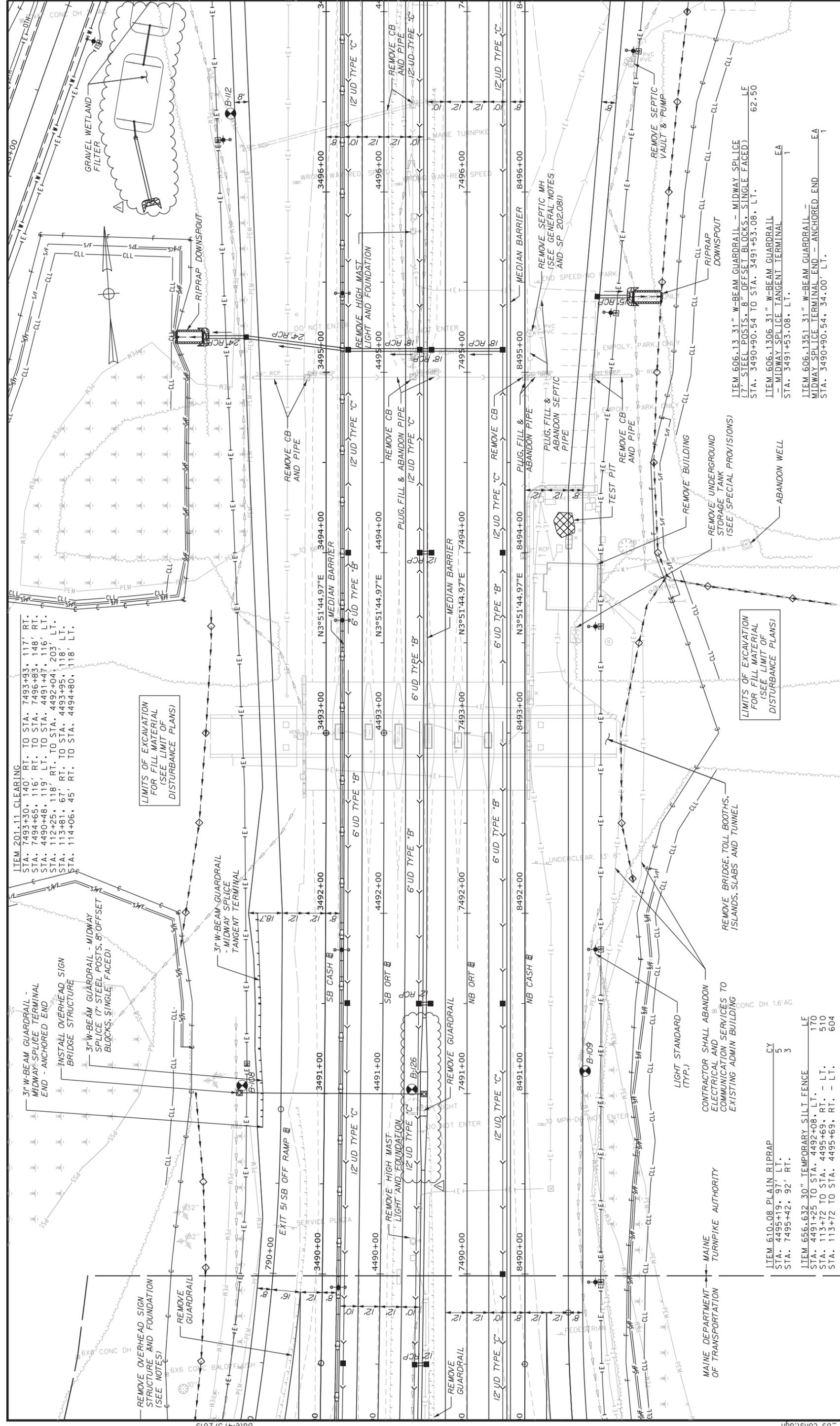


THE GOLD STAR
MEMORIAL HIGHWAY

INTERCHANGE 103
ORT CONVERSION
BARRIER DETAILS 4

CONTRACT: 2019.04

SHEET NUMBER: DET-07
106 OF 503



ITEM 201.11 CLEARING
 STA. 7493+30, 140' RT. TO STA. 7493+93, 117' RT.
 STA. 7494+65, 116' RT. TO STA. 7496+83, 148' RT.
 STA. 4490+48, 119' LT. TO STA. 4491+47, 116' LT.
 STA. 112+25, 118' RT. TO STA. 4492+04, 203' LT.
 STA. 113+81, 67' RT. TO STA. 4493+95, 118' LT.
 STA. 114+06, 45' RT. TO STA. 4494+80, 118' LT.

LIMITS OF EXCAVATION
 FOR FILL MATERIAL
 (SEE LIMIT OF
 DISTURBANCE PLANS)

LIMITS OF EXCAVATION
 FOR FILL MATERIAL
 (SEE LIMIT OF
 DISTURBANCE PLANS)

3" W-BEAM GUARDRAIL - MIDWAY SPLICE TERMINAL - ANCHORED END
 INSTALL OVERHEAD SIGN BRIDGE STRUCTURE
 3" W-BEAM GUARDRAIL - MIDWAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)

REMOVE OVERHEAD SIGN STRUCTURE AND FOUNDATION (SEE NOTES)
 REMOVE GUARDRAIL
 EXIT 51 SB OFF RAMP
 790+00

Date: 4/5/2019

Scale: 25 0 25 50
 Scale of Feet

No.	Revision	By	Date
1	WETLAND & BARRIER REVISIONS	TFD	4/19

Designed by: _____

By	Date	By	Date
PLP	3/20/19	Checked	LEM
EJB	3/20/19	In Charge of	GAEL

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THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 ORT CONVERSION
 GENERAL PLAN 9

CONTRACT: 2019.04
 SHEET NUMBER: GP-09
 122 OF 503

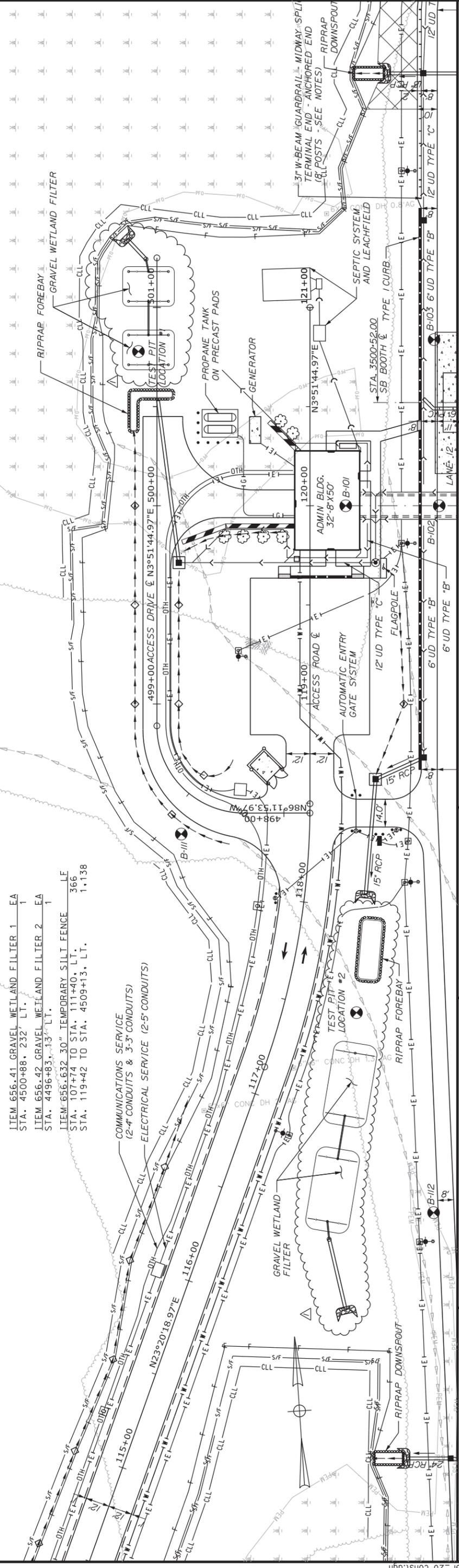
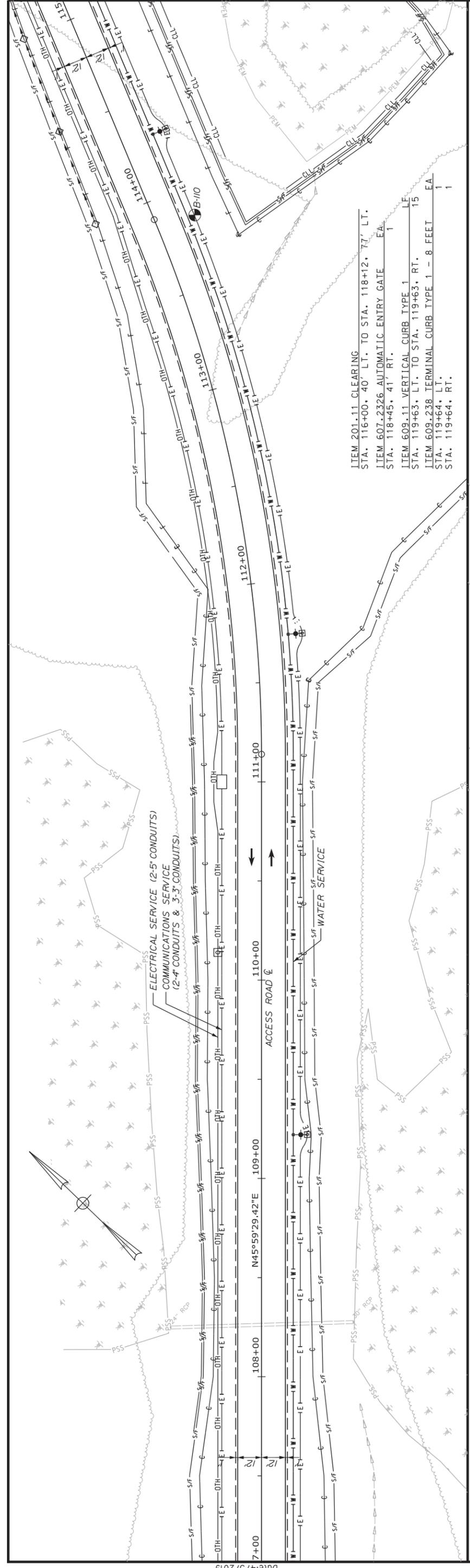
Designed by: _____

By	Date	By	Date
PLP	3/20/19	Checked	LEM
EJB	3/20/19	In Charge of	GAEL

CONTRACTOR SHALL ABANDON ELECTRICAL AND COMMUNICATION SERVICES TO EXISTING ADMIN BUILDING

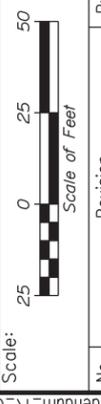
Item	Description	Quantity	Unit
ITEM 510.08	PLAIN RIPRAP	5	CY
STA. 4495+19, 97' LT.			
STA. 7495+42, 92' RT.			
ITEM 656.632	30" TEMPORARY SILL FENCE	170	LF
STA. 4491+25 TO STA. 4492+08, LT.			
STA. 4495+69, RT. - LT.			
STA. 113+72 TO STA. 4495+69, RT. - LT.			

ITEM 606.13 31" W-BEAM GUARDRAIL - MIDWAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 3490+90.54 TO STA. 3491+53.08, LT. 62.50
 ITEM 606.13 31" W-BEAM GUARDRAIL - MIDWAY SPLICE TANGENT TERMINAL
 STA. 3491+53.08, LT. 1
 ITEM 606.13 31" W-BEAM GUARDRAIL - MIDWAY SPLICE TERMINAL END - ANCHORED END
 STA. 3490+90.54, 34' 00" LT. 1



Date: 4/5/2019

Filename: ...:\addendum_1\CP_20-const.dgn



No.	Revision	By	Date
1	GRAVEL WETLAND REVISIONS	TFD	3/19

Designed	Checked	By	Date
PLP	3\20\19	LEM	3\20\19
Drawn	In Charge of	By	Date
EJB	3\20\19	GAE	3\20\19

Designed by:

Stantec

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
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 TEL (207) 887-3448
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MAINE TURNPIKE

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 PORT CONVERSION
 GENERAL PLAN 20

CONTRACT: 2019.04

SHEET NUMBER: GP-20
 133 OF 503

GENERAL OVERHEAD SIGN STRUCTURE FOUNDATION NOTES

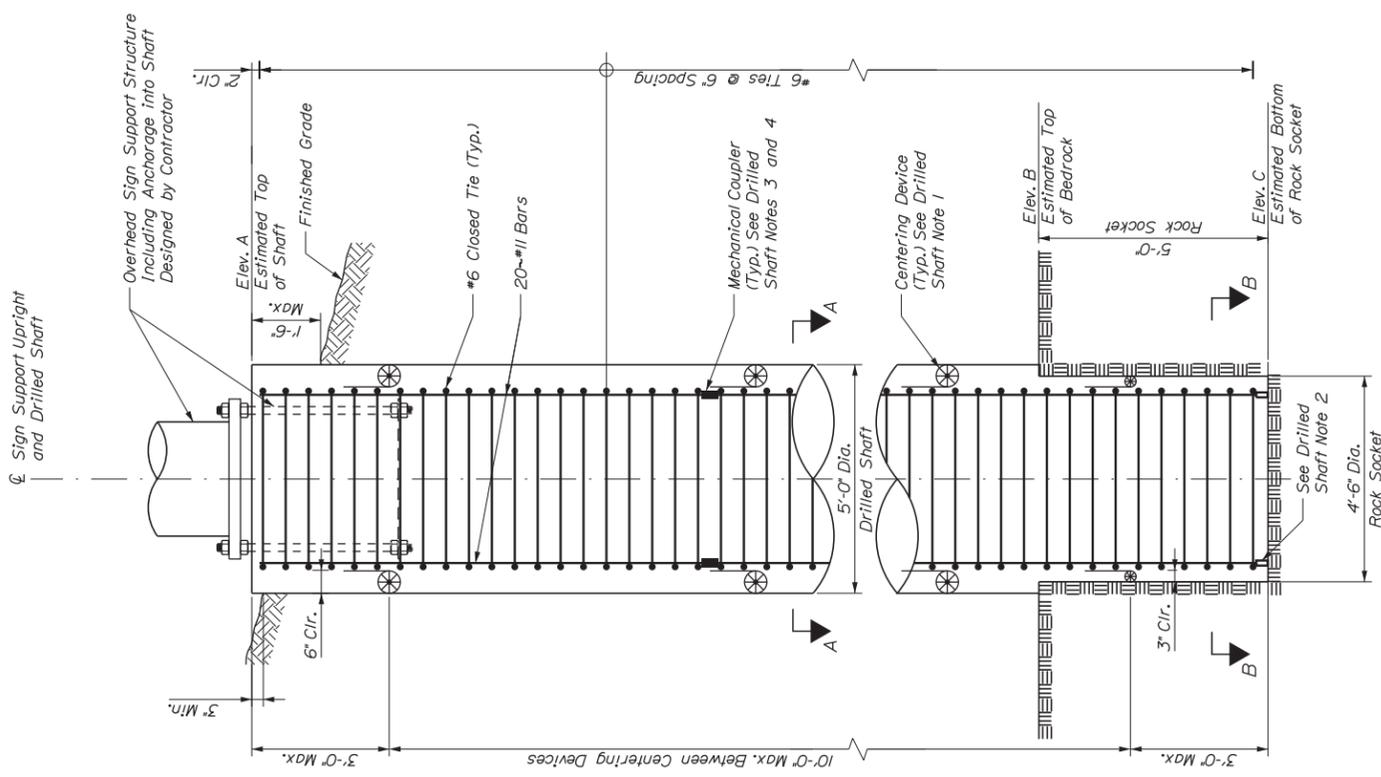
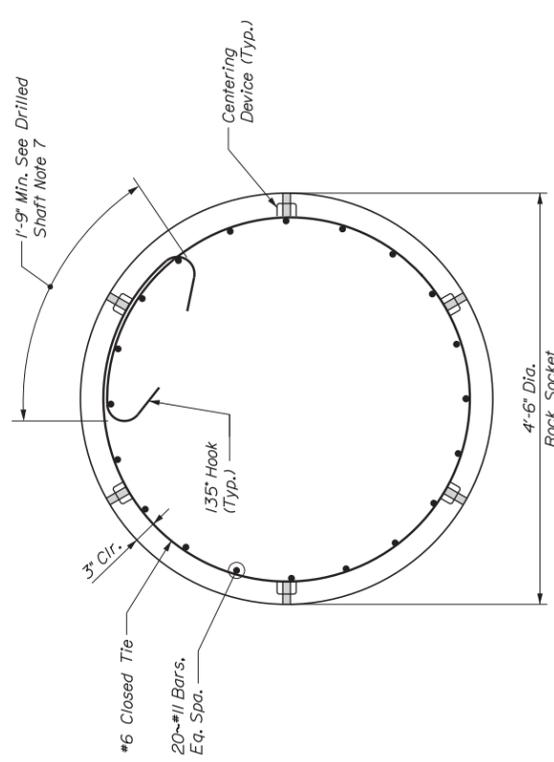
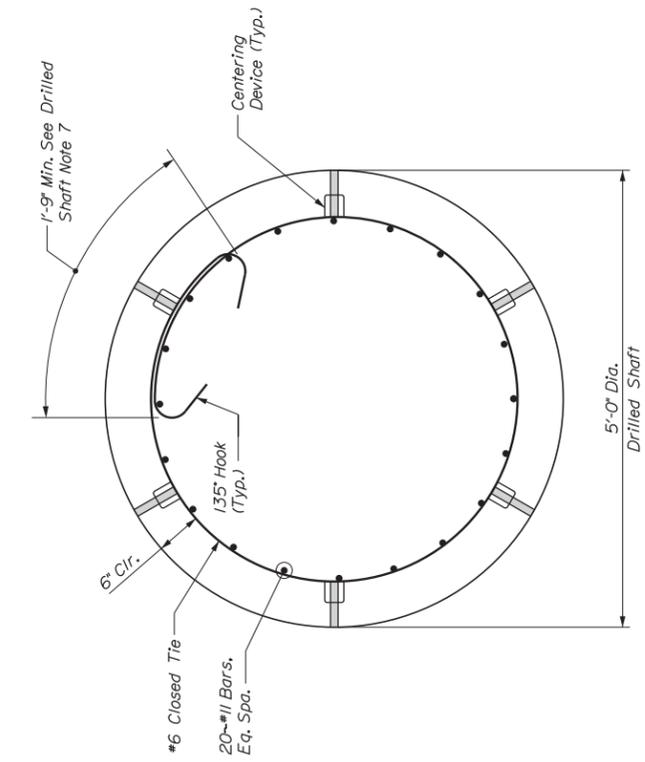
1. ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 626.
2. OVERHEAD SIGN BRIDGES AND THEIR FOUNDATIONS SHALL BE PAID UNDER THE APPROPRIATE 645.12 ITEMS, OVERHEAD CANTILEVER SIGN SUPPORT STRUCTURES AND THEIR FOUNDATIONS SHALL BE PAID UNDER THE APPROPRIATE 645.15 ITEMS.
3. ALL CONCRETE USED FOR OVERHEAD SIGN STRUCTURE FOUNDATIONS (INCLUDING DRILLED SHAFTS, TIE BEAMS, STEMS AND FOOTINGS) SHALL BE CLASS "A" CONCRETE ($f_c = 4500$ PSI) AND SHALL CONFORM TO MTA SUPPLEMENTAL SPECIFICATION 502.
4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, EPOXY COATED AND SHALL CONFORM TO MAINEDOT STANDARD SPECIFICATION 503. REINFORCEMENT SCHEDULES AND REINFORCING STEEL SHOP DRAWINGS FOR ALL OVERHEAD SIGN STRUCTURE FOUNDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. DESIGN FOR OVERHEAD CANTILEVER AND SIGN BRIDGE TRUSS STRUCTURES INCLUDING ANCHORAGES SHALL BE PROVIDED BY THE CONTRACTOR PER SPECIAL PROVISION 645. SUBMIT DESIGN CALCULATIONS INCLUDING SUPPORT REACTIONS AT THE TOPS OF THE FOUNDATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL.
6. REFER TO SIGNING AND STRIPING PLANS AND OVERHEAD SIGN CROSS SECTIONS FOR MOUNTED SIGN TYPES AND STRUCTURE SPANS.
7. PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO MAINEDOT STANDARD SPECIFICATION 515, SHALL BE APPLIED ON ALL EXPOSED CONCRETE PORTIONS OF THE FOUNDATIONS TO A DEPTH OF 12" BELOW GRADE AND SHALL BE INCIDENTAL TO THE SECTION 645 SIGN SUPPORT PAY ITEMS.
8. CONCRETE TIE BEAMS AND SPREAD FOOTING FOUNDATIONS SHALL BE BACKFILLED WITH GRANULAR BORROW (703.19) A MINIMUM OF 18" BEYOND THE PLAN LIMITS OF THE TIE BEAM OR FOOTING.
9. STRUCTURAL AND ROCK EXCAVATION, BACKFILLING AND COMPACTION SHALL BE IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 206 AND SHALL BE INCIDENTAL TO THE SECTION 645 SIGN SUPPORT PAY ITEMS.
10. PAYMENT FOR REMOVAL AND RESTORATION OF GRASS DISTURBED BY THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE INCIDENTAL TO THE SECTION 645 SIGN SUPPORT PAY ITEMS.
11. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL ENGINEERING REPORT DATED AUGUST 2018 REGARDING EXPECTED BEDROCK TYPES, QUALITY AND STRENGTHS. SOME VARIABILITY IN ROCK QUALITY AND STRENGTH SHOULD BE EXPECTED BUT THE CONTRACTOR SHOULD ANTICIPATE HARD TO VERY HARD BEDROCK CONDITIONS AND PLAN HIS WORK ACCORDINGLY.
12. FOR ADDITIONAL NOTES AND REQUIREMENTS FOR THE OVERHEAD SIGN STRUCTURES AND FOUNDATIONS, SEE SHEET GN-01.

DRILLED SHAFT NOTES

1. CENTERING DEVICES SHALL BE CONSTRUCTED OF AN APPROVED NON-METALLIC DURABLE MATERIAL AND SHALL BE OF ADEQUATE SIZE TO INSURE A MINIMUM OF 6" IN SHAFT AND 3" ANNULAR SPACE IN ROCK SOCKET BETWEEN THE OUTSIDE OF THE REINFORCEMENT CAGE AND THE SIDES OF THE EXCAVATED HOLE OR INSIDE OF CASING.
2. EACH VERTICAL BAR SHALL BE SUPPORTED BY A 3" HIGH BOLSTER OF APPROVED NON-METALLIC DURABLE MATERIAL.
3. SPLICES OF VERTICAL REINFORCEMENT SHALL BE ARRANGED IN GROUPS OF 2 DIAGONALLY OPPOSITE PAIRS THAT ARE STAGGERED VERTICALLY AT LEAST 12" ON CENTER.
4. MECHANICAL COUPLERS SHALL BE IN ACCORDANCE WITH SUBSECTION 503.07.
5. WELDING OF THE REINFORCEMENT BARS SHALL NOT BE PERMITTED.
6. LENGTHS OF THE VERTICAL REINFORCEMENT VARY AT EACH DRILLED SHAFT FOUNDATION AND DEPEND ON ACTUAL BOTTOM OF ROCK SOCKET ELEVATIONS. BAR LENGTHS SHALL BE LONG ENOUGH TO PROVIDE THE MINIMUM TIE BEAM EMBEDMENT DEPTHS OR CLEARANCES TO TOP OF SHAFT SHOWN.
7. HOOKS AT THE ENDS OF CLOSED CIRCULAR TIES SHALL ENGAGE A VERTICAL BAR. OVERLAPS AT ENDS OF CIRCULAR TIES SHALL BE STAGGERED ALONG LENGTH OF REBAR CAGE.

DRILLED SHAFT FOUNDATION DESIGN LOADING AND ELEVATION NOTES

1. THESE FOUNDATIONS HAVE BEEN DESIGNED USING THE ASSUMED MAXIMUM TOP OF FOUNDATION LOADS SHOWN IN THE TABLE BELOW. THE LOADS FROM THE OVERHEAD SIGN STRUCTURE SHALL NOT EXCEED THE LOADS SHOWN.
2. CONTRACTOR SHALL DETERMINE FINAL TOP OF SHAFT ELEVATIONS. 'ELEV. A' IN THE TABLE BELOW HAS BEEN ASSUMED FOR FOUNDATION DESIGN PURPOSES AND MAY BE SUBJECT TO CHANGE PENDING DESIGN OF THE OVERHEAD CANTILEVER SIGN SUPPORT STRUCTURE.
3. 'ELEV. B' AND 'ELEV. C' IN THE TABLE BELOW ARE ESTIMATED ELEVATIONS AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. THE ACTUAL BEDROCK ELEVATIONS SHOULD BE VERIFIED IN THE FIELD BY EXPERIENCED GEOTECHNICAL ENGINEERING PERSONNEL.



FOUNDATION LOCATION	FOUNDATION ELEVATIONS					MAXIMUM TOP OF FOUNDATION LOADS		
	Station	Location	Elev. A	Elev. B	Elev. C	Axial Load (k)	Horizontal Force (k)	Overturning Moment (k-ft)
Guide Sign								
Cant. Guide Sign NB 1	7+427+25	Rt.	169.0	142.1	137.1	15	10	800
Cant. Guide Sign NB 4	7+471+75	Lt.	200.0	179.9	174.9	15	10	730
								415
								300
								965
								625

AS NOTED

No.	Revision	By	Date
1	ADDENDUM 1 - ADDED SHEET	DDT	4/19

Designed by: LAUREN MEEK, PE
Checked: DDT 4/02/2019
Drawn: DB 4/02/2019 In Charge of: GAEL 4/02/2019

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

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MAINE TURNPIKE

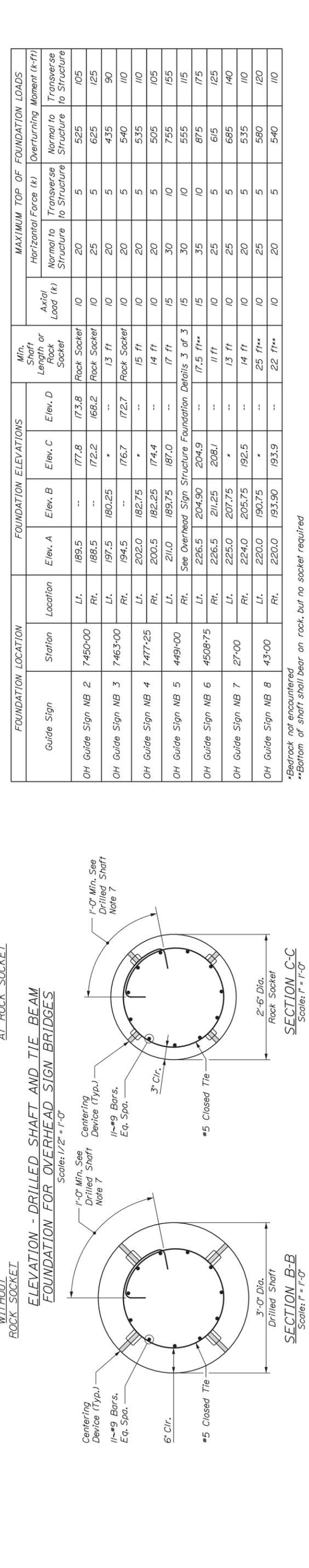
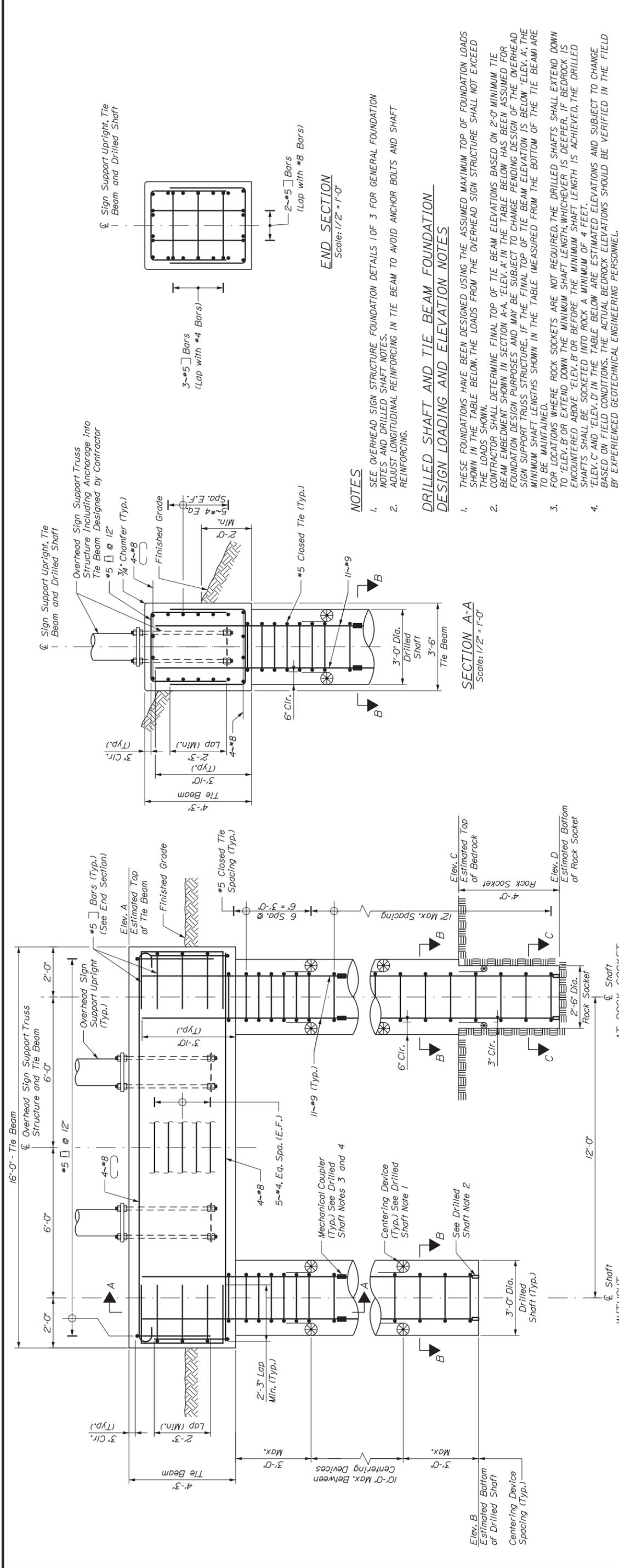
THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
ORT CONVERSION
OVERHEAD SIGN STRUCTURE
FOUNDATION DETAILS 1 OF 3

CONTRACT: 2019.04
SHEET NUMBER: SF-01
205A OF 503

Stantec

Designed by: LAUREN MEEK, PE
Checked: DDT 4/02/2019
Drawn: DB 4/02/2019 In Charge of: GAEL 4/02/2019



FOUNDATION LOCATION		FOUNDATION ELEVATIONS				MAXIMUM TOP OF FOUNDATION LOADS	
Guide Sign	Station	Location	Elev. A	Elev. B	Elev. C	Elev. D	Min. Shaft Length or Rock Socket
OH Guide Sign NB 2	7450+00	Lt.	189.5	--	177.8	173.8	Rock Socket
OH Guide Sign NB 3	7463+00	Rt.	188.5	--	172.2	168.2	Rock Socket
OH Guide Sign NB 4	7477+25	Lt.	197.5	180.25	*	--	13 ft
OH Guide Sign NB 5	4491+00	Rt.	194.5	--	176.7	172.7	Rock Socket
OH Guide Sign NB 6	4508+75	Lt.	202.0	182.75	*	--	15 ft
OH Guide Sign NB 7	27+00	Rt.	200.5	182.25	174.4	--	14 ft
OH Guide Sign NB 8	43+00	Lt.	211.0	189.75	187.0	--	17 ft
		Rt.	See Overhead Sign Structure Foundation Details 3 of 3				15
		Lt.	226.5	204.90	204.9	--	17.5 ft**
		Rt.	226.5	211.25	208.1	--	11 ft
		Lt.	225.0	207.75	*	--	13 ft
		Rt.	224.0	205.75	192.5	--	14 ft
		Lt.	220.0	190.75	*	--	25 ft**
		Rt.	220.0	193.90	193.9	--	22 ft**

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

AS NOTED

No.	Revision	By	Date
1	ADDENDUM 1 - ADDED SHEET	DDT	4/19

Designed by: LAUREN MEEK, PE
Checked by: DDT
Date: 4/02/2019

Drawn by: LAUREN MEEK, PE
Checked by: DDT
Date: 4/02/2019

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MAINE TURNPIKE

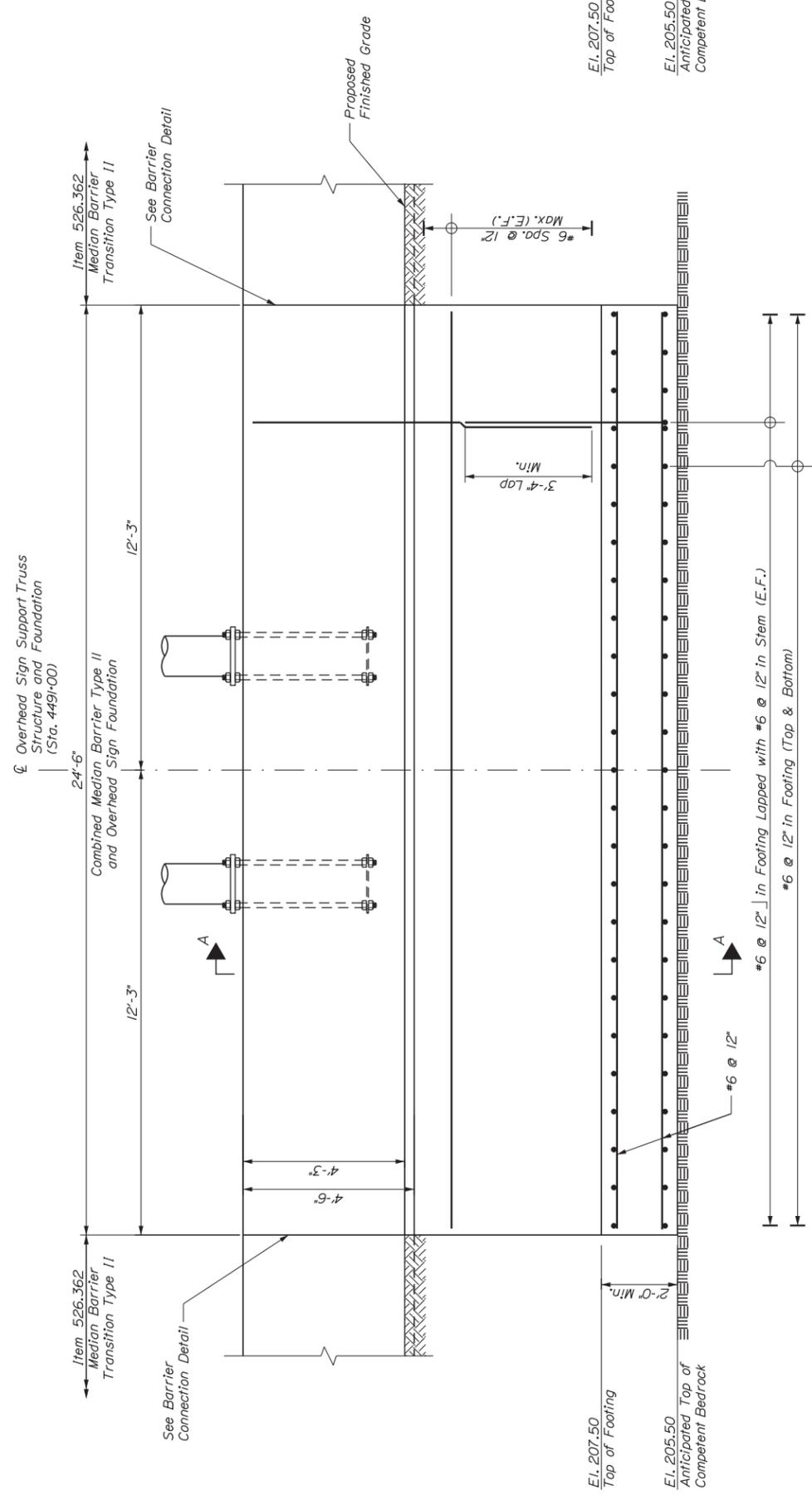
THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
ORT CONVERSION
OVERHEAD SIGN STRUCTURE
FOUNDATION DETAILS 2 OF 3

CONTRACT: 2019.04
SHEET NUMBER: SF-02
205B OF 503

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

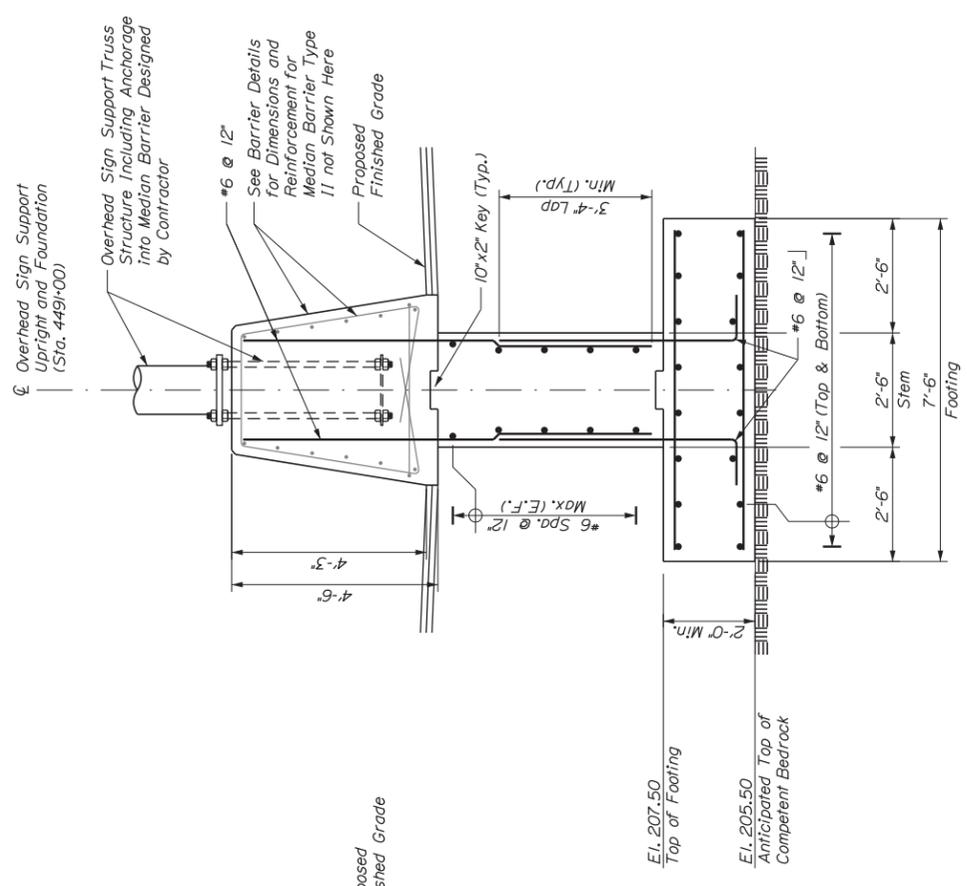
Contract 2019.04
Addendum No. 1
Page 33 of 43



Note:
Additional reinforcement in Median Barrier Type II not shown for clarity

ELEVATION - SPREAD FOOTING FOUNDATION
FOR OVERHEAD SIGN BRIDGE AT STA. 4491+00 RT (MEDIAN)

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



SECTION A-A
Scale: 1/2" = 1'-0"

NOTES

- SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS 1 OF 3 AND 2 OF 3 FOR GENERAL FOUNDATION NOTES AND DESIGN LOADING.
- REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER OF 2 INCHES IN THE STEM AND 3 INCHES COVER IN THE FOOTINGS UNLESS OTHERWISE NOTED.
- FOOTING CONCRETE SHALL BE PLACED ON BEDROCK CLEANED OF WEATHERED ROCK, LOOSE FRACTURED BEDROCK, BOULDERS AND SOIL WHERE THE BEDROCK SURFACE SLOPE EXCEEDS 4H:1V. THE BEDROCK SURFACE SHALL BE BENCHED IN LEVEL STEPS OR MADE LESS STEEP THAN 4H:1V AS DIRECTED BY THE RESIDENT.
- THE BEDROCK WILL VARY IN NATURE, SLOPE, AND DEGREE OF FRACTURING. ACTUAL ROCK ELEVATIONS MAY VARY. AFTER THE FOUNDATION EXCAVATIONS ARE COMPLETED AND ALL UNSOUND BEDROCK REMOVED, THE CONTRACTOR SHALL SURVEY THE FOUNDATION BEDROCK AND PROVIDE THE EXACT BEDROCK ELEVATIONS TO THE RESIDENT FOR REVIEW AND APPROVAL.
- WHEN THE PREPARED BEDROCK SURFACE IS ONE (1) FOOT OR LESS BELOW THE ANTICIPATED ELEVATION, THE FOOTING THICKNESS MAY BE INCREASED UP TO AN ADDITIONAL ONE (1) FOOT AS APPROVED BY THE RESIDENT. IF THE FOOTING THICKNESS IS INCREASED, THE TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE PLANS.
- WHEN BEDROCK PROTRUDES ABOVE THE ANTICIPATED BOTTOM OF THE FOOTING, THE FOOTING MAY BE RAISED AND VERTICAL REINFORCING MAY BE CUT IN THE FIELD WITH THE APPROVAL OF THE RESIDENT. THE MINIMUM ALLOWABLE FOOTING THICKNESS IS SHOWN ON THE PLANS. PAYMENT FOR ADJUSTING FOOTING DEPTH AND ADJUSTING REINFORCING STEEL WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS. NO SEPARATE PAYMENT WILL BE MADE. AT THE OPTION OF THE RESIDENT, BEDROCK THAT PROTRUDES ABOVE THE BOTTOM OF THE FOOTING ELEVATION MAY BE REMOVED. PAYMENT FOR BEDROCK REMOVAL WILL BE MADE UNDER ITEM NO. 203.21, ROCK EXCAVATION. IF THE BEDROCK ELEVATIONS VARY MORE THAN 1 FOOT BELOW THE ELEVATIONS ASSUMED IN THE DEVELOPMENT OF THE PLAN SET, THE SIGN FOUNDATION MAY NEED TO BE MODIFIED. THE CONTRACTOR SHALL GRANT THE OWNER SEVEN (7) WORKING DAYS TO MODIFY THE PLANS FROM THE DATE THE RESIDENT ACCEPTS THE BEDROCK SURVEY.

Scale: AS NOTED

No.	Revision	By	Date
1	ADDENDUM 1 - ADDED SHEET	DDT	4/19

Designed	By	Date	Checked	By	Date
PAG	4/02/2019	4/02/2019	DDT	4/02/2019	4/02/2019

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

Drawn: DB 4/02/2019 In Charge of: GAEL 4/02/2019

Designed by:

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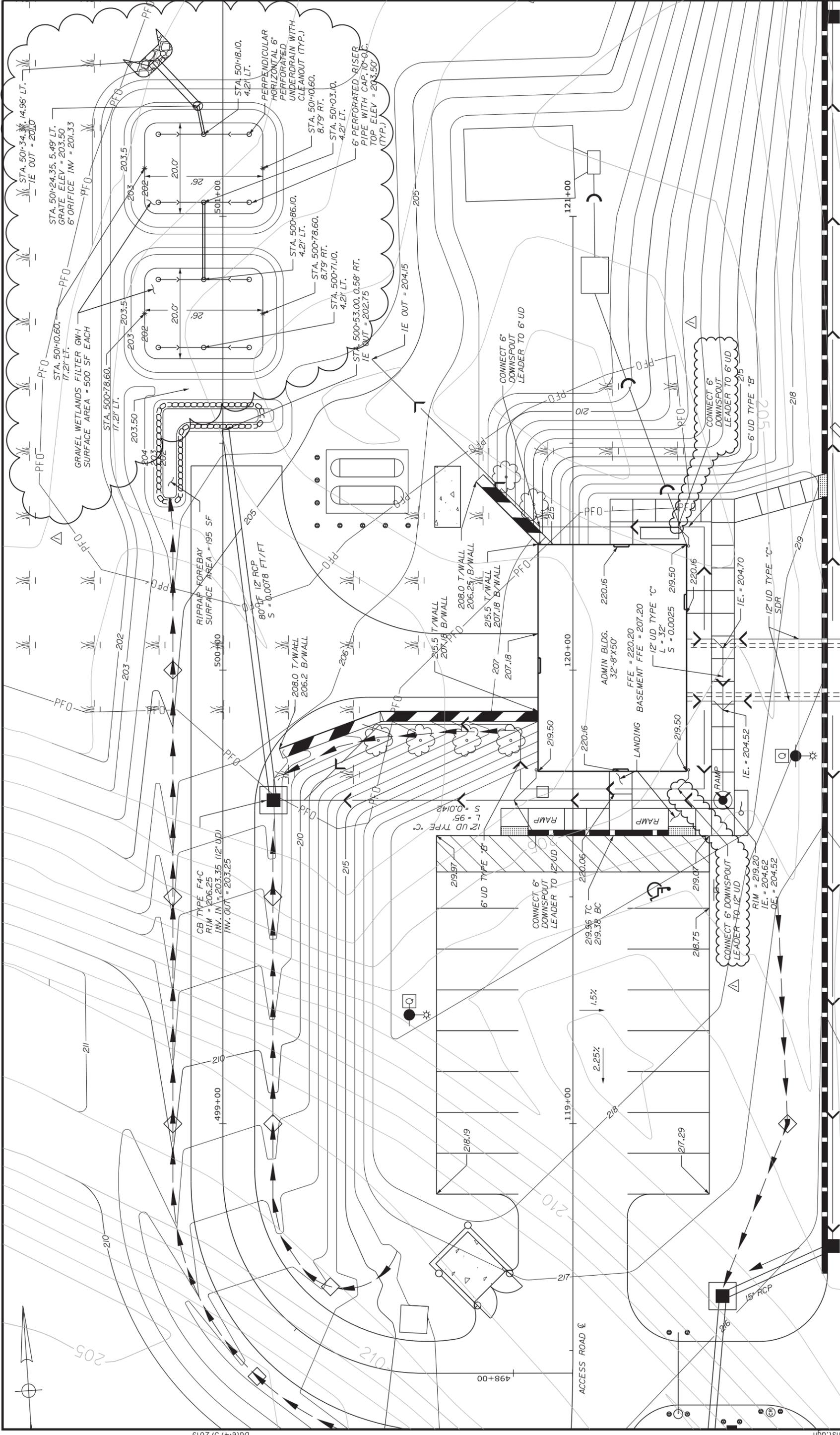
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

INTERCHANGE 103
ORT CONVERSION
OVERHEAD SIGN STRUCTURE
FOUNDATION DETAILS 3 OF 3

CONTRACT: 2019.04

SHEET NUMBER: SF-03
205C OF 503



Date: 4/5/2019

Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date
1	GRAVEL WETLAND & BLDG DRAINAGE REV.	TFD	4/19

Designed	By	Date
PLP	3/20/19	LEM

Drawn	By	Date
EJB	3/20/19	GAEL

Designed by: LAUREN MEEK, PE

Checked	In Charge of
LEM	GAEL

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MAINE TURNPIKE

STANTEC

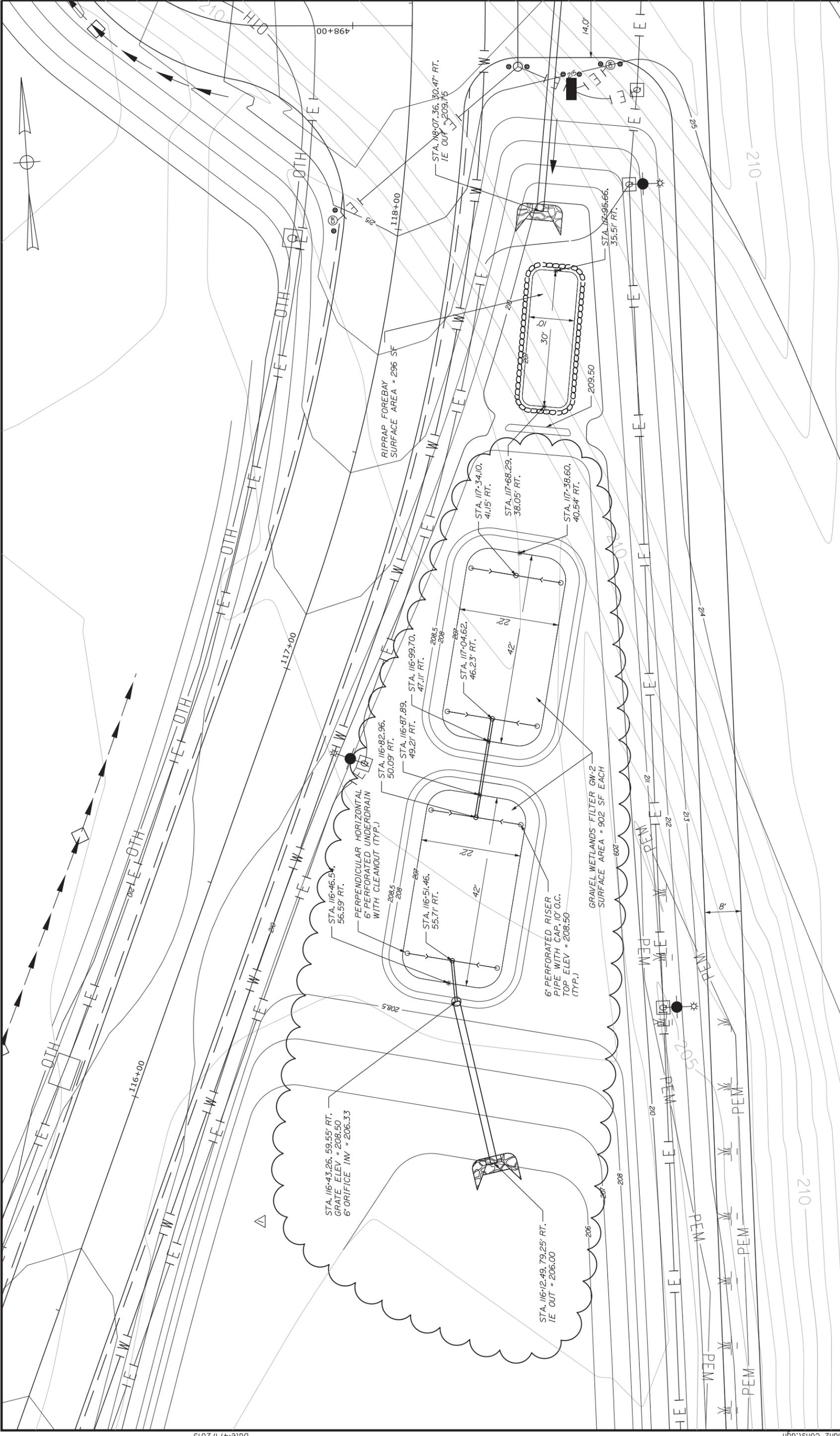
THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
ORT CONVERSION
ADMIN BUILDING
GRADING AND DRAINAGE PLAN 1

CONTRACT: 2019.04

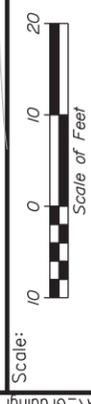
SHEET NUMBER: SP-02
223 OF 503

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE



Date: 4/1/2019

Filename: ... \NSTA\GradingPlan2-Const.dgn



No.	Revision	By	Date
1	REVISIONS TO GRAVEL WETLAND	TFD	3/1/19

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By	Date	Checked	By	Date
PLP	3/20/19	Checked	LEM	3/20/19
EJB	3/20/19	In Charge of	GAE	3/20/19



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THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 ORT CONVERSION
 ADMIN BUILDING

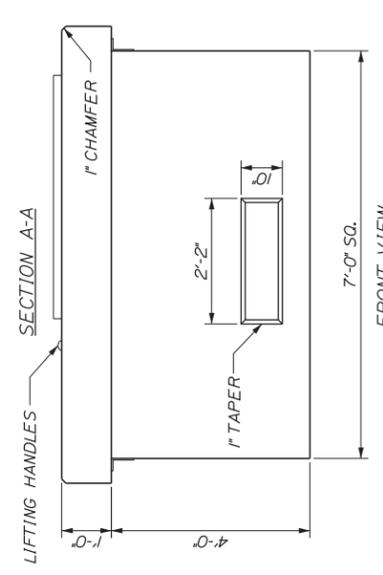
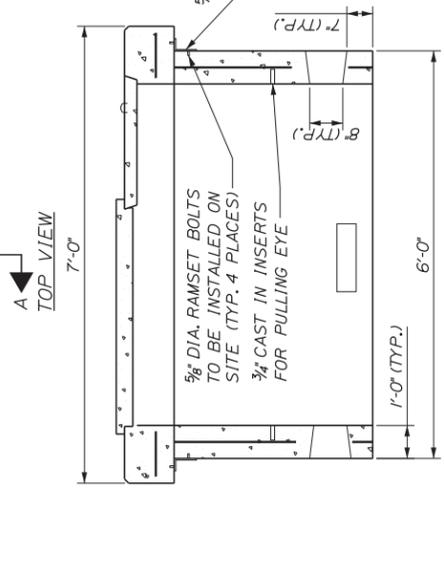
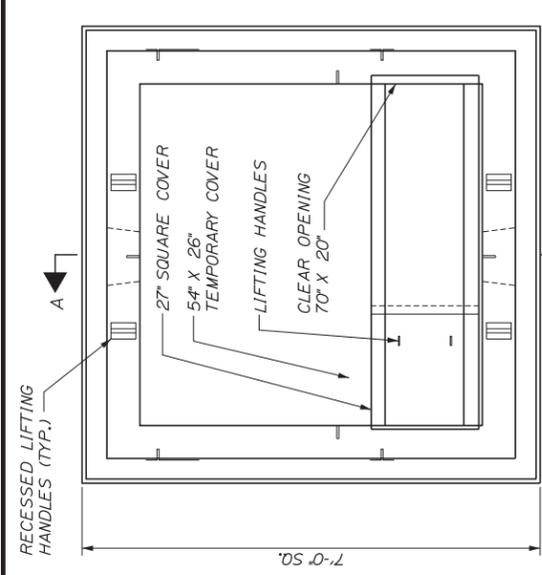
GRADING AND DRAINAGE PLAN 2

CONTRACT: 2019.04

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

SHEET NUMBER: SP-03

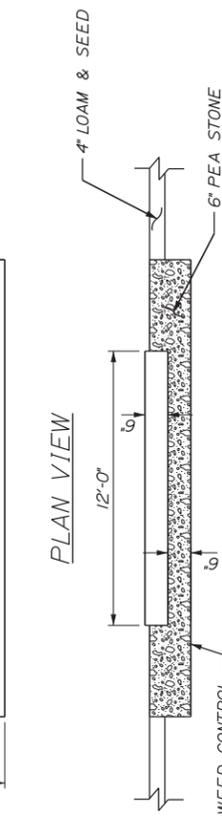
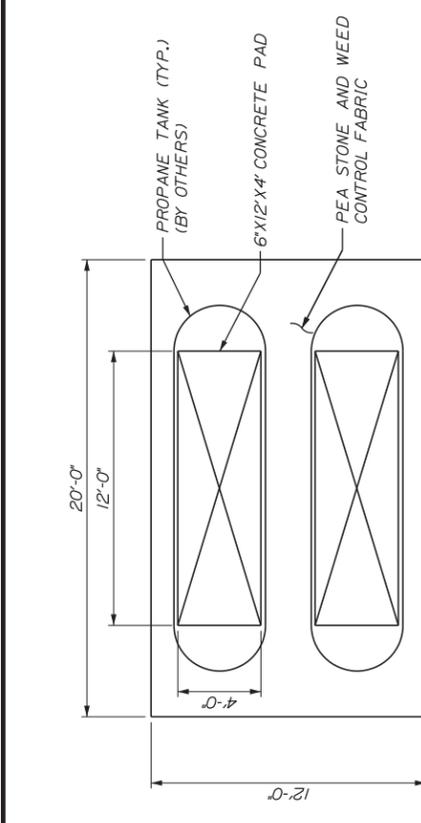
224 OF 503



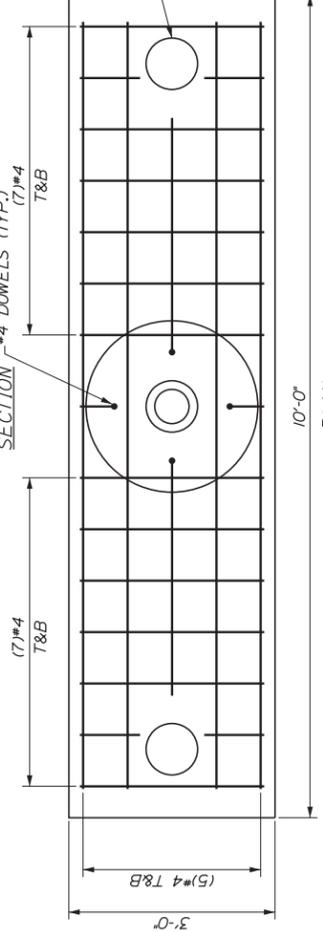
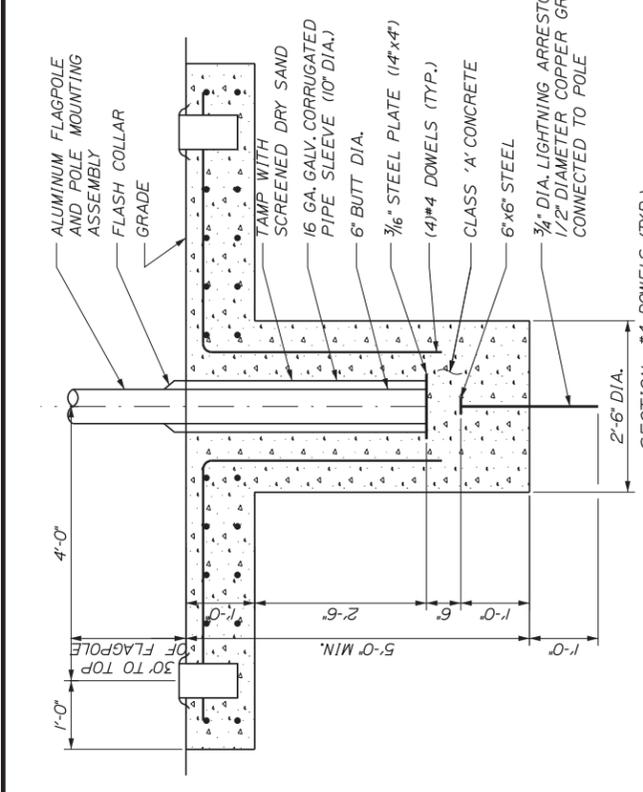
NOTES:
 1. CONCRETE 4,000 PSI AT 28 DAYS.
 2. REINFORCING #4 BARS AT 6" O.C. EACH WAY.
 3. DUCT OPENINGS SHOWN ARE TYPICAL AND CAN BE MODIFIED PER REQUEST.
 4. TRANSFORMER PAD SHALL MEET CENTRAL MAINE POWER COMPANY SPECIFICATIONS.
 5. TEMPORARY COVER HAS (2) 5/8" THREADED LIFTING INSERTS CAST IN.

NOTE:
 CONFIRM TRANSFORMER PAD SIZES WITH OWNER. DIVISION 2 CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE TRANSFORMER PAD.

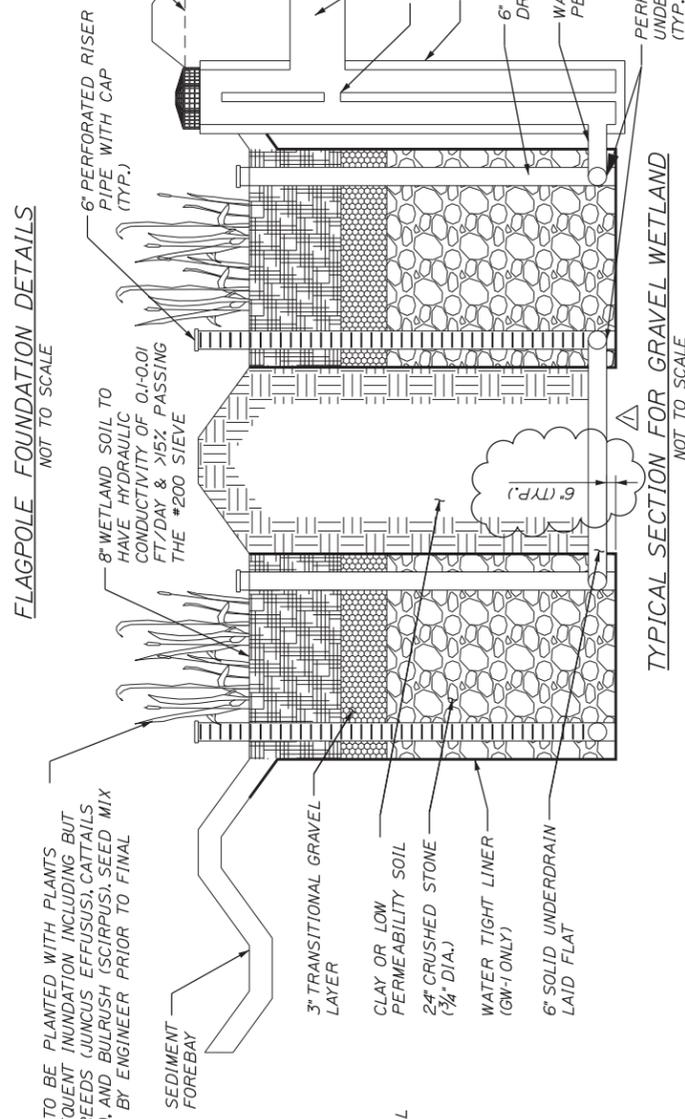
7'-0" TRANSFORMER PAD
 NOT TO SCALE



PROPANE TANK PAD
 N.T.S.

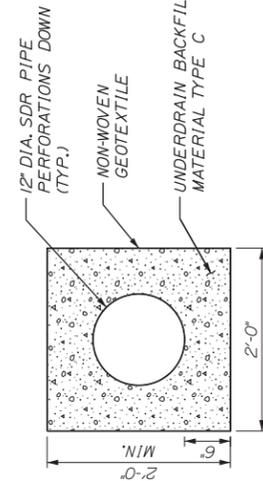


FLAGPOLE FOUNDATION DETAILS
 NOT TO SCALE



TYPICAL SECTION FOR GRAVEL WETLAND
 NOT TO SCALE

GRAVEL WETLAND TO BE PLANTED WITH PLANTS TOLERANT OF FREQUENT INUNDATION INCLUDING BUT NOT LIMITED TO: REEDS (JUNCUS EFFUSUS), CATTAILS (TYPHA LATIFOLIA), AND BULLRUSH (SCIRPUS). SEED MIX TO BE APPROVED BY ENGINEER PRIOR TO FINAL SEEDING



TYPICAL UNDERDRAIN AT BUILDING FOUNDATION
 NOT TO SCALE

NOTES:
 1. DISTRIBUTION BOX SHALL BE H20 LOADING RATED

No.	Revision	By	Date
1	REVISIONS TO GRAVEL WETLAND	TFD	3/1/19

By	Date	By	Date	
PLP	3/20/19	Checked	LEM	3/20/19
EJB	3/20/19	In Charge of	GAE	3/20/19

Scale: _____

Designed by: _____

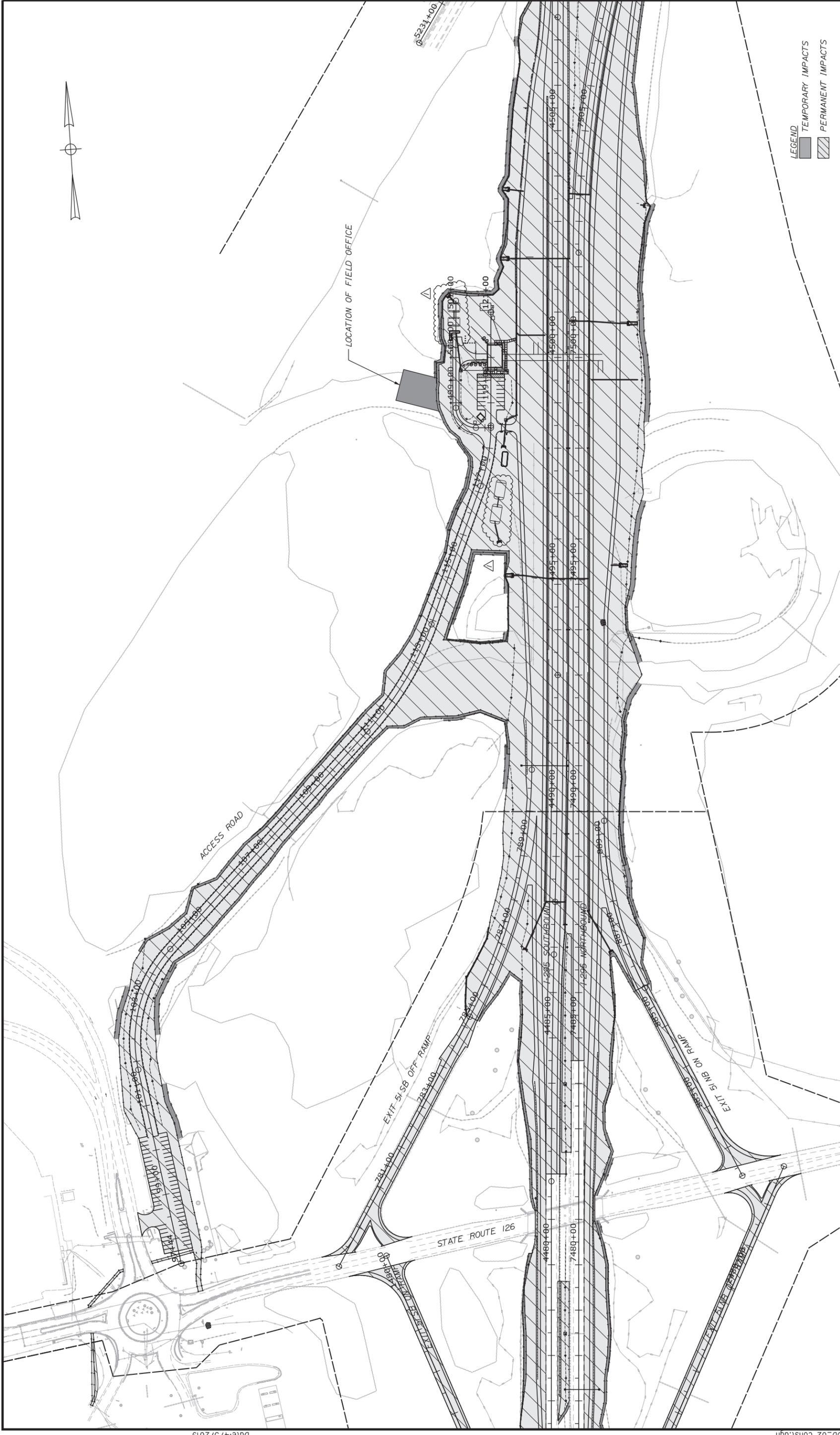
STANTEC CONSULTING SERVICES INC.
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THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE 103
 ORT CONVERSION
 SITE DETAILS 3

CONTRACT: 2019.04

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE



LEGEND
 [Hatched Box] TEMPORARY IMPACTS
 [Solid Box] PERMANENT IMPACTS

INTERCHANGE 103
 ORT CONVERSION
 LIMIT OF DISTURBANCE PLAN 2

CONTRACT: 2019.04
 SHEET NUMBER: LOD-02
 233 OF 503

**THE GOLD STAR
 MEMORIAL HIGHWAY**



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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

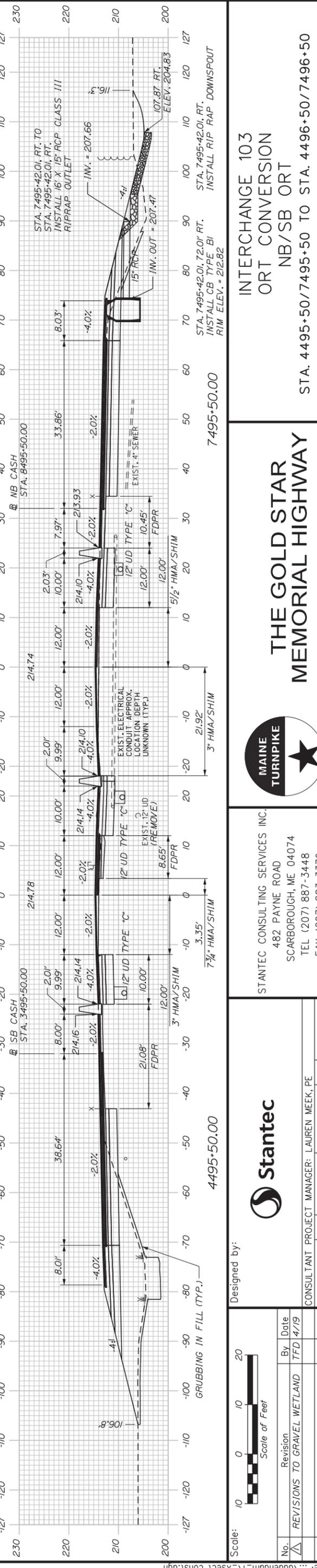
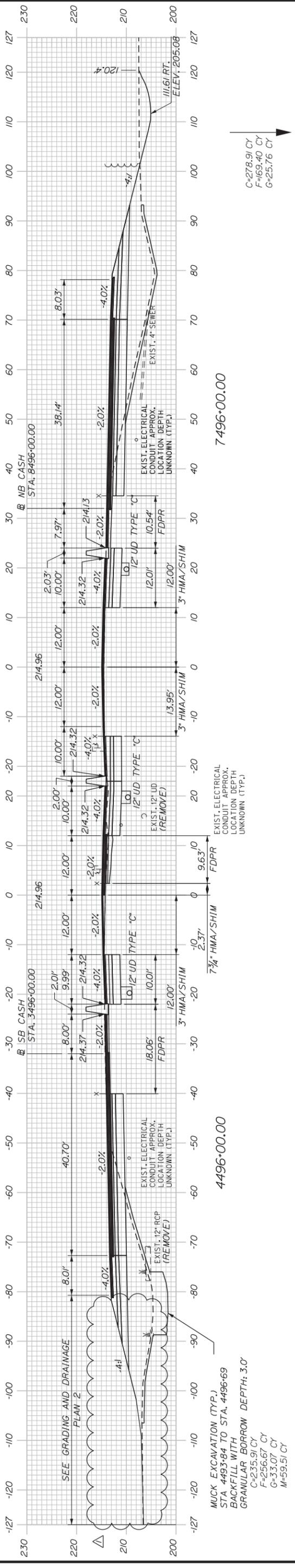
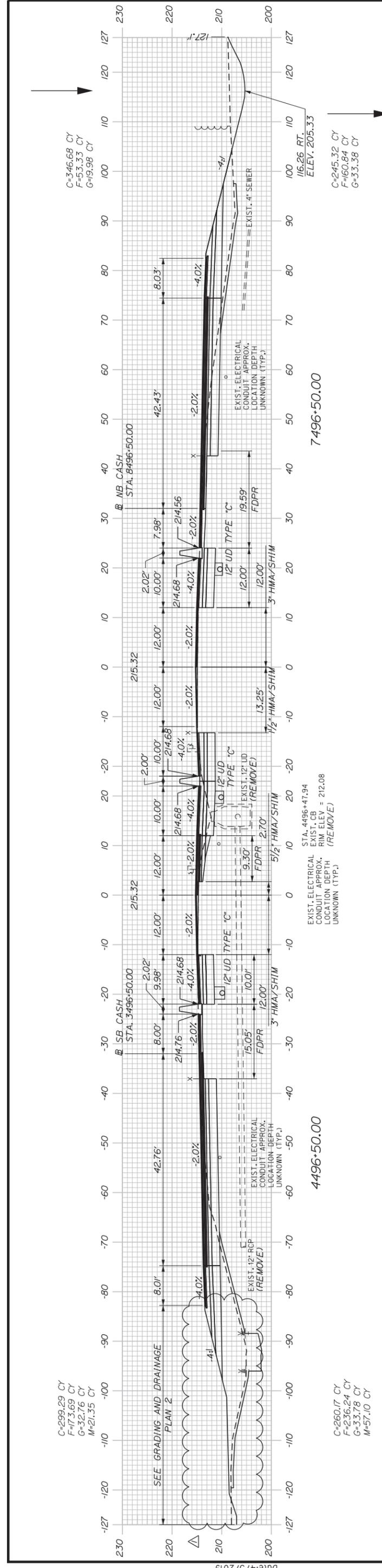
Designed by:

No.	Revision	By	Date
1	GRAVEL WETLAND REVISIONS	EJB	4/19

By	Date	By	Date
PLP	3/20/19	Checked	LEM 3/20/19
EJB	3/20/19	In Charge of	GAEL 3/20/19

By	Date
PLP	3/20/19
EJB	3/20/19

Scale: 1" = 100'
 0 100 200
 Scale of Feet

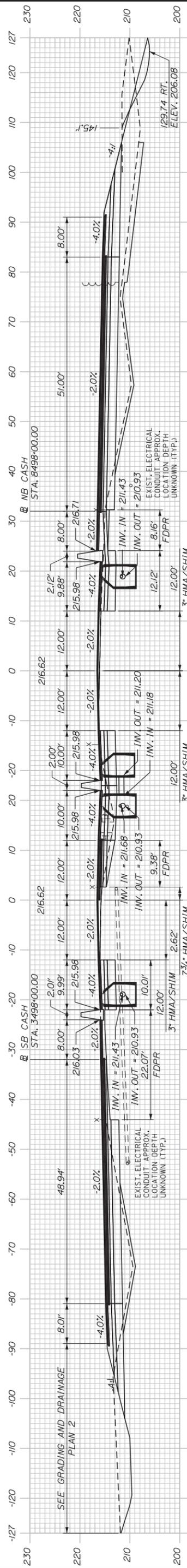


C=247.42 CY
F=87.56 CY
G=28.08 CY

STA. 4498+00.00, LT. TO
STA. 4490+00.00, LT.
INSTALL 188" X 6" UD TYPE "B"

STA. 7498+00.00, RT. TO
STA. 7490+00.00, RT.
INSTALL 188" X 6" UD TYPE "B"

C=292.86 CY
F=187.23 CY
G=82.41 CY



4498+00.00

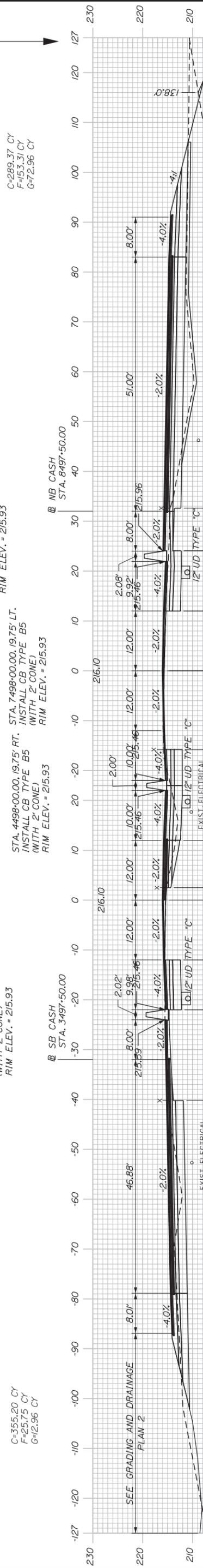
STA. 4498+00.00, 19.75' LT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

STA. 4498+00.00, 19.75' RT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

7498+00.00

STA. 7498+00.00, 19.75' LT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

C=289.37 CY
F=153.31 CY
G=72.96 CY



4497+50.00

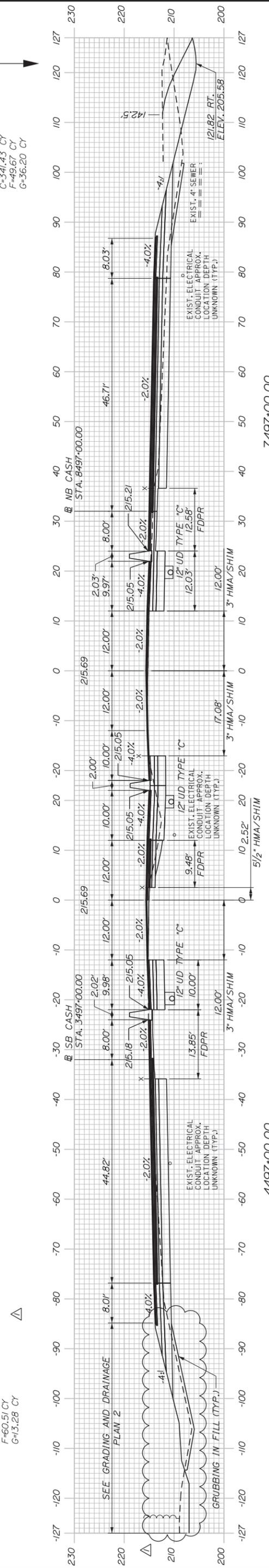
STA. 3497+50.00
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

STA. 7497+50.00, 19.75' LT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

7497+50.00

STA. 7497+50.00, 19.75' RT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

C=341.43 CY
F=49.67 CY
G=36.20 CY



7497+00.00

STA. 3497+00.00
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

STA. 7497+00.00, 19.75' LT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

7497+00.00

STA. 7497+00.00, 19.75' RT.
INSTALL CB TYPE B5
(WITH 2' CONE)
RIM ELEV. = 215.93

C=355.30 CY
F=60.51 CY
G=13.28 CY

Scale: 1" = 20'

Designed by: [Signature]

No.	Revision	By	Date
1	REVISIONS TO GRAVEL WETLAND	TFD	4/19

Designed	Checked	In Charge of
PLP 3/20/19	LEM 3/20/19	GAE 3/20/19

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

THE GOLD STAR
MEMORIAL HIGHWAY

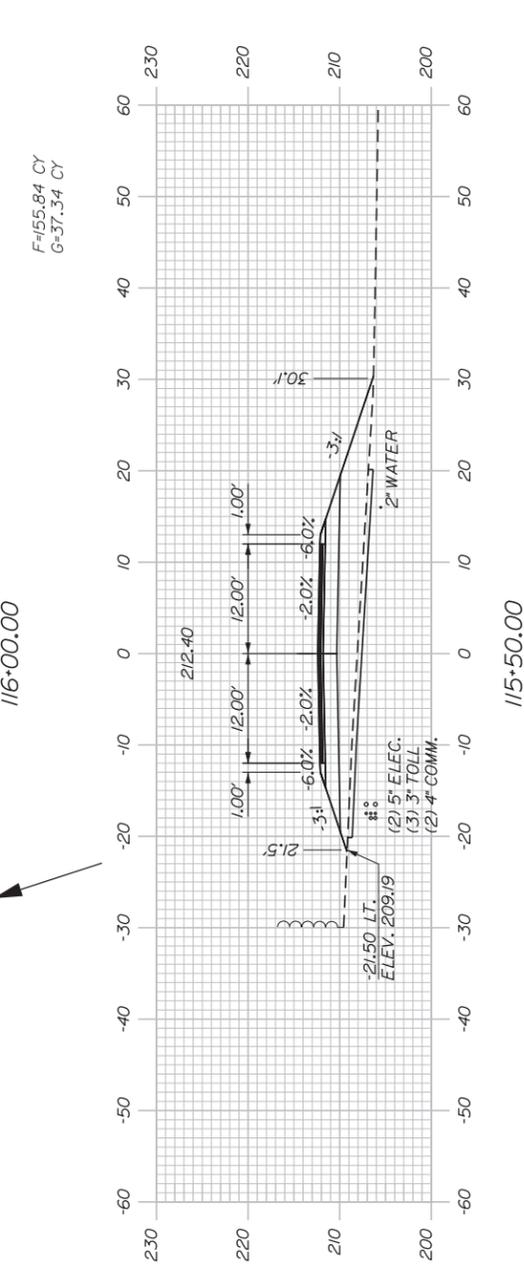
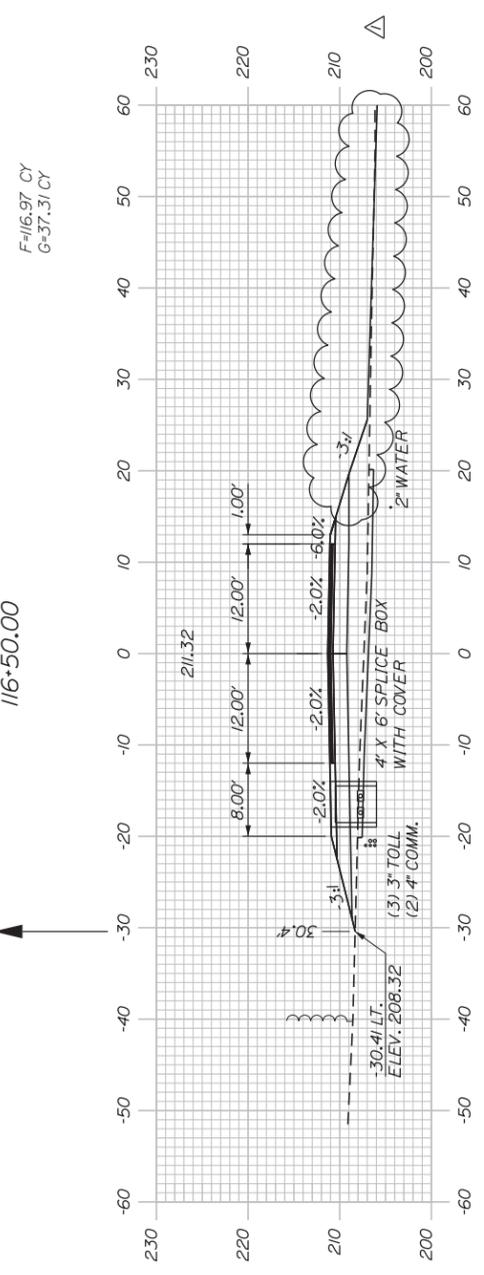
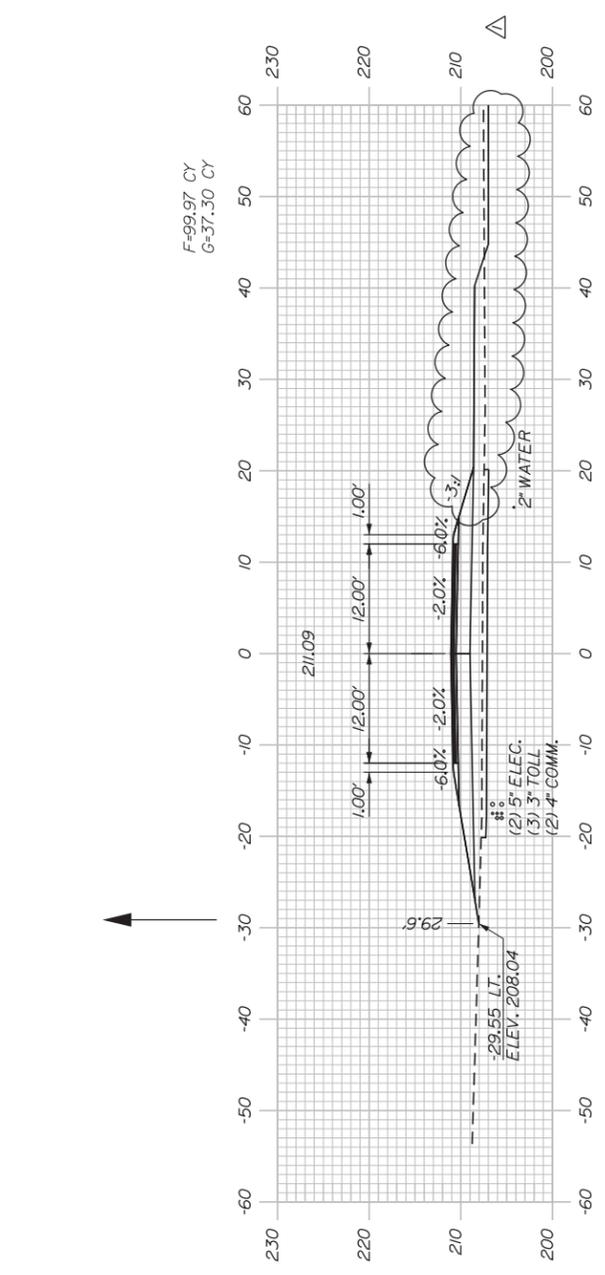
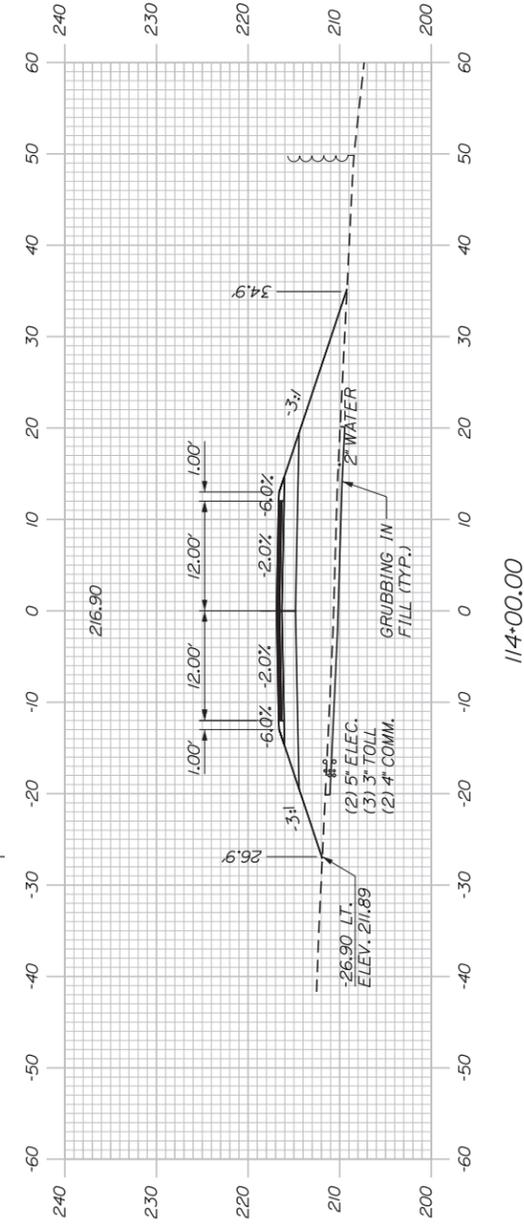
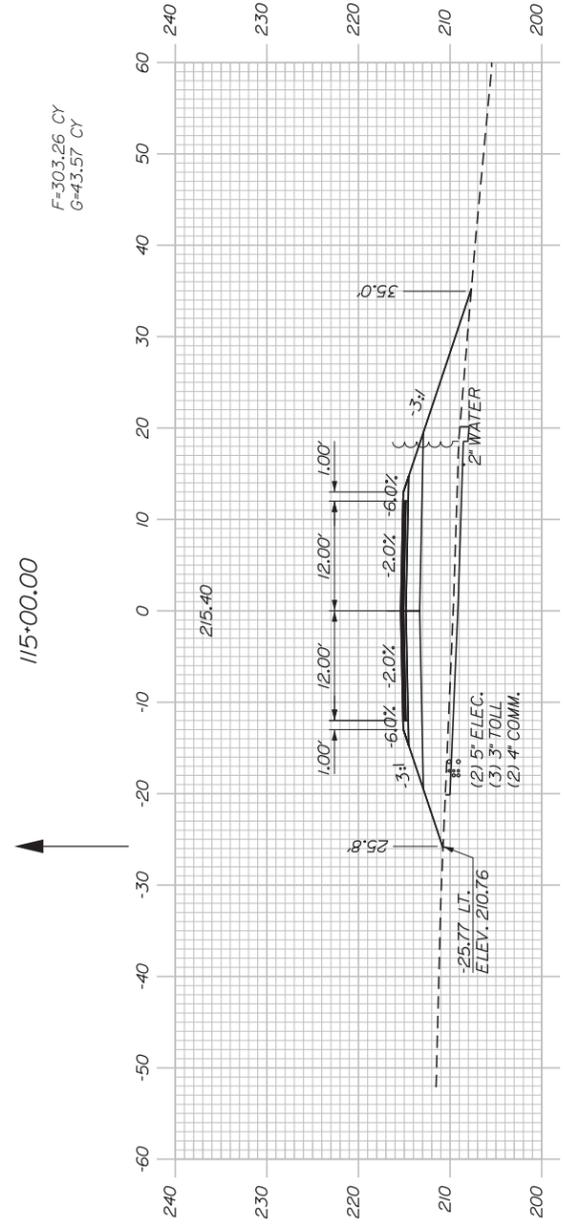
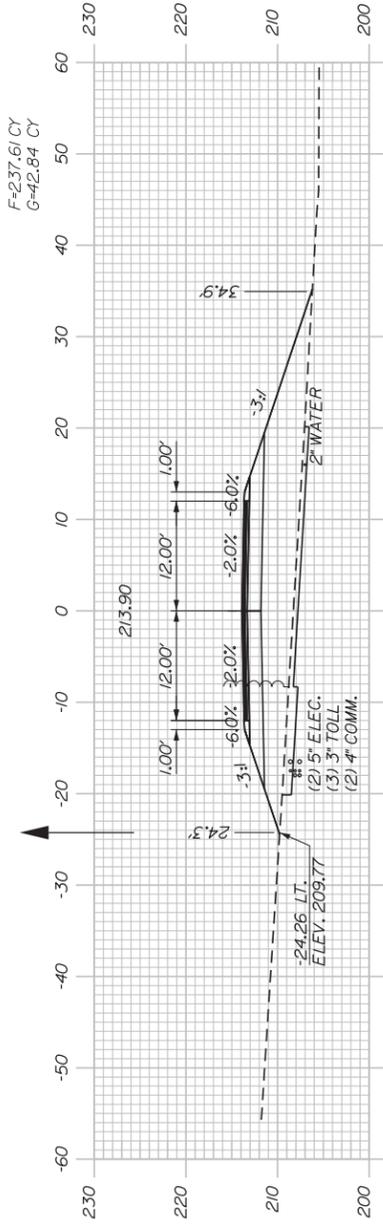
INTERCHANGE 103
ORT CONVERSION
NB/SB ORT

STA. 4497+00/7497+00 TO STA. 4498+00/7498+00

CONTRACT: 2019.04

SHEET NUMBER: XS-40

274 OF 503



Scale: 1" = 10' - 0' 10' 20'

Scale of Feet

No.	Revision	By	Date
1	REVISIONS TO GRAVEL WETLAND	TFD	4/19

Designed by:

By	Date	By	Date
PLP	3/20/19	Checked	LEM 3/20/19
EJB	3/20/19	In Charge of	GAE 3/20/19

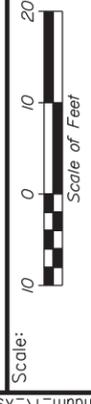
STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376



**THE GOLD STAR
 MEMORIAL HIGHWAY**

INTERCHANGE 103
 ORT CONVERSION
 ACCESS ROAD

STA. 114+00.00 TO STA. 116+50.00



No.	Revision	By	Date
1	REVISIONS TO GRAVEL WETLAND	TFD	4/19

Designed	By	Date	Checked	By	Date
PLP	EJB	3/20/19	LEM	PLP	3/20/19
Drawn	EJB	3/20/19	In Charge of	GAE	3/20/19

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE
 By Date
 Checked LEM 3/20/19
 Drawn GAE 3/20/19

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
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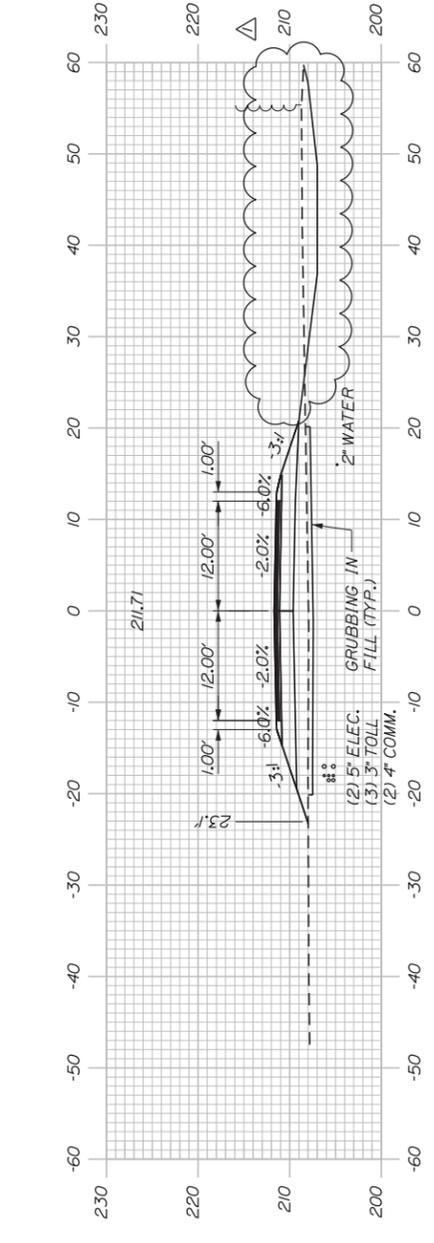
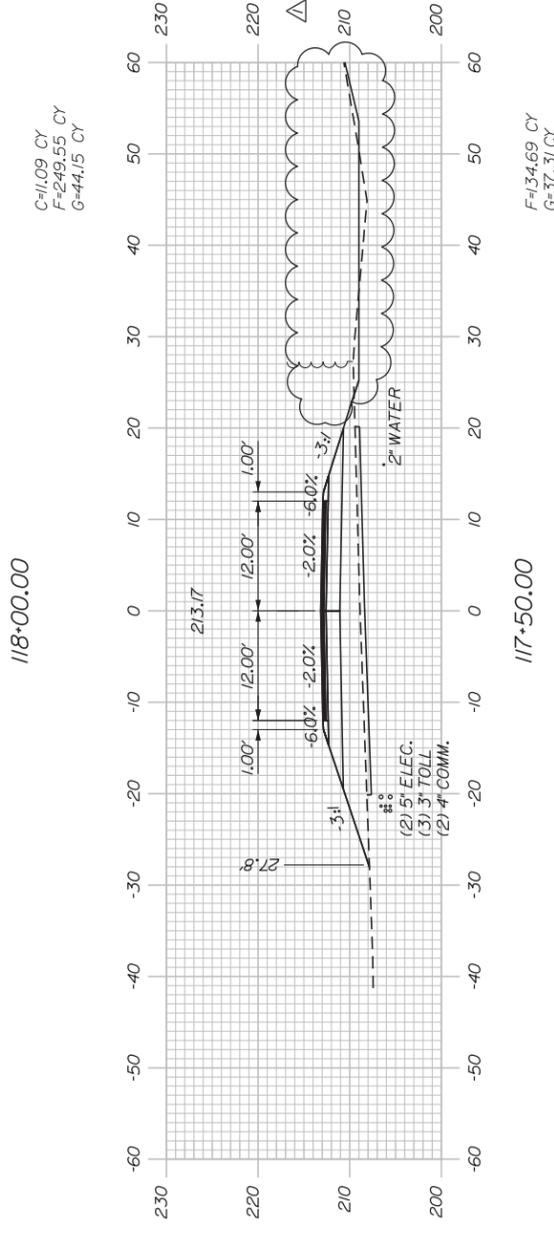
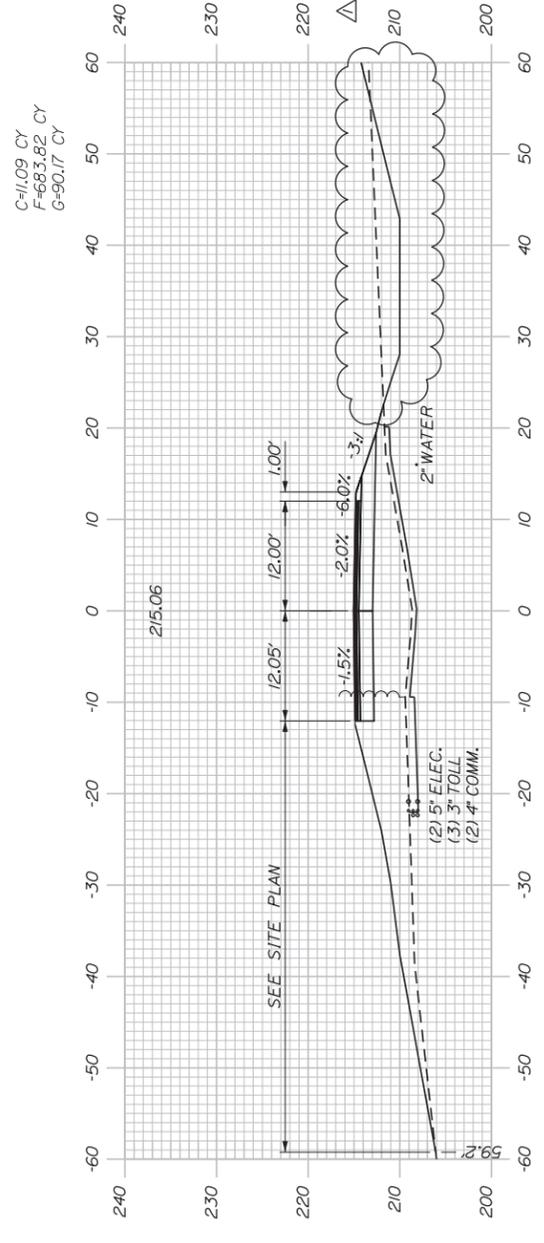


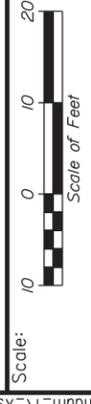
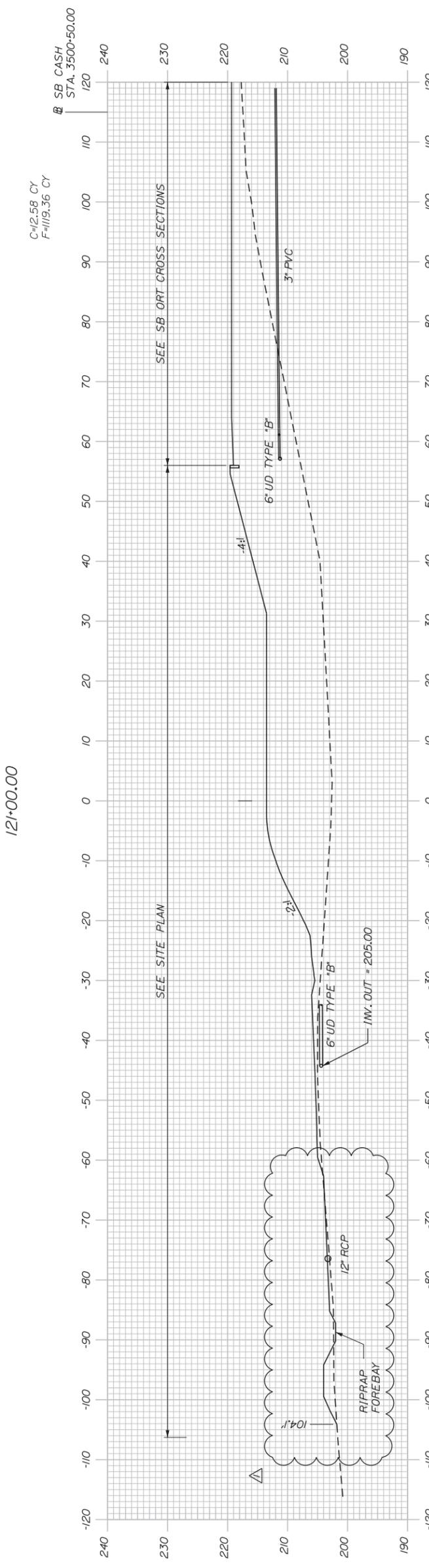
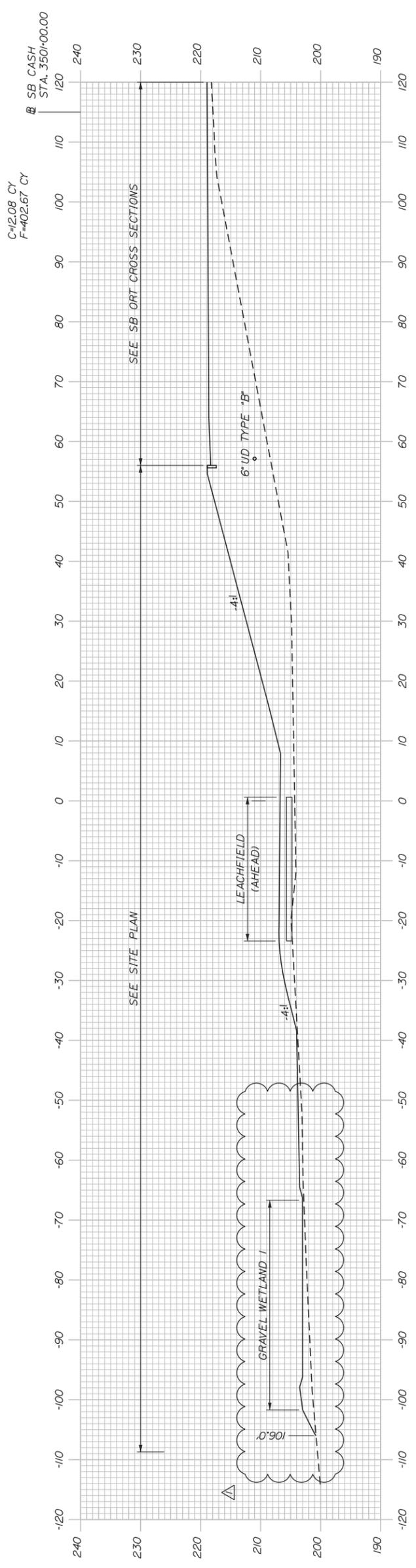
**THE GOLD STAR
 MEMORIAL HIGHWAY**

INTERCHANGE 103
 ORT CONVERSION
 ACCESS ROAD
 STA. 117+00.00 TO STA. 118+00.00

CONTRACT: 2019.04

SHEET NUMBER: XS-121
 355 OF 503





No.	Revision	By	Date
1	REVISIONS TO GRAVEL WETLAND	TFD	4/19

Designed by:			
By	Date	By	Date
PLP	3/20/19	LEM	3/20/19
EJB	3/20/19	In Charge of	GAE



CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE				
Designed	By	Date	By	Date
	PLP	3/20/19	LEM	3/20/19
Drawn	EJB	3/20/19	In Charge of	GAE

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376



**THE GOLD STAR
 MEMORIAL HIGHWAY**

INTERCHANGE 103
 ORT CONVERSION
 ACCESS ROAD

STA. 120+50.00 TO STA. 121+00.00

CONTRACT: 2019.04

SHEET NUMBER: XS-124
 358 OF 503