

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## AUBURN ANDROSCOGGIN COUNTY TAYLOR BROOK BRIDGE OVER TAYLOR BROOK HOTEL ROAD FEDERAL AID PROJECT NO. 2222400 PROJECT LENGTH 0.03 mi. BRIDGE NO. 3225

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### SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017.

### DESIGN LOADING

Live Load..... HL - 93 Modified for Strength I

### TRAFFIC DATA

|  |      |
|--|------|
| Current (2019) AADT.....                 | 4130 |
| Future (2039) AADT.....                  | 4960 |
| DHV - % of AADT.....                     | 10   |
| Design Hour Volume.....                  | 496  |
| Heavy Trucks (% of AADT).....            | 5    |
| Heavy Trucks (% of DHV).....             | 2    |
| Directional Distribution (% of DHV)..... | 56   |
| 18 kip Equivalent P 2.0.....             | 87   |
| 18 kip Equivalent P 2.5.....             | 83   |
| Design Speed (mph).....                  | 35   |

### HYDROLOGIC DATA

|                                 |             |
|---------------------------------|-------------|
| Drainage Area.....              | 14.7 sq mi  |
| Design Discharge (Q50).....     | 953.9 cfs   |
| Check Discharge (Q100).....     | 1,098.2 cfs |
| Headwater Elevation (Q1.1)..... | 241.01 ft   |
| Headwater Elevation (Q25).....  | 242.41 ft   |
| Headwater Elevation (Q50).....  | 242.62 ft   |
| Headwater Elevation (Q100)..... | 243.85 ft   |
| Discharge Velocity (Q1.1).....  | 0.84 fps    |
| Discharge Velocity (Q25).....   | 3.08 fps    |
| Discharge Velocity (Q50).....   | 3.46 fps    |
| Discharge Velocity (Q100).....  | 3.23 fps    |

### MATERIALS

Concrete:

|                                  |            |
|----------------------------------|------------|
| Curbs & Transition Barriers..... | Class "LP" |
| Precast.....                     | Class "P"  |
| All Other.....                   | Class "A"  |

Reinforcing Steel:

|  |   |
|--|---|
| Plain Reinforcing Steel.....               | ASTM A 615, Grade 60                                    |
| Stainless Reinforcing Steel.....           | ASTM A 955, Grade 75                                    |
| Glass Fiber Reinforced Polymer (GFRP)..... | ASTM D7957  |
| Prestressing Strands.....                  | AASHTO M 203 (ASTM A 416),<br>Grade 270, Low Relaxation |

### BASIC DESIGN STRESSES

|                                  |                    |
|----------------------------------|--------------------|
| Concrete, Class "LP".....        | f 'c = 5,000 psi   |
| Concrete, Class "P".....         | f 'ci = 6,500 psi  |
|                                  | f 'c = 8,000 psi   |
| Concrete, Class "A".....         | f 'c = 4,000 psi   |
| Plain Reinforcing Steel.....     | f y = 60,000 psi   |
| Stainless Reinforcing Steel..... | f y = 75,000 psi   |
| Prestressing Strands.....        | F μ = 270,000 psi  |
| Glass Fiber Reinforced Polymer:  |                    |
| #5 Bar.....                      | f fu = 100,000 psi |
| #6 Bar.....                      | f fu = 100,000 psi |
| #7 Bar.....                      | f fu = 95,000 psi  |
| #8 Bar.....                      | f fu = 90,000 psi  |
| Minimum Elastic Modulus.....     | Ef = 6,150,000 psi |

### UTILITIES

Central Maine Power  
Consolidated Communications  
Charter Communications  
Auburn Water and Sewer District

### MAINTENANCE OF TRAFFIC

Bridge will be closed to traffic during construction with traffic detoured.

|                          |   |
|--------------------------|---|
| <b>PROJECT LOCATION:</b> | Taylor Brook Bridge #3225 in Auburn carrying Hotel Road over Taylor Brook, located 1.3 miles north of Route 11.<br>Lat./Long. 44° 05' 58" N 70° 16' 01" W |
| <b>PROGRAM AREA:</b>     | Bridge  |
| <b>OUTLINE OF WORK:</b>  | Replacement of Taylor Brook Bridge #3225 in Auburn with 300' of approach work.  |



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]*  
COMMISSIONER: *[Signature]* c.o.o.  
DATE: 8/12/20  
CHIEF ENGINEER: *[Signature]* 8-12-2020

STATE OF MAINE  
 JOSHUA K. OLUND  
 No. 12150  
 REGISTERED PROFESSIONAL ENGINEER  
 EXPIRES 12/31/2022

PROJECT INFORMATION

|                         |                   |
|-------------------------|-------------------|
| PROGRAM                 | BRIDGE            |
| PROJECT MANAGER         | DEVAN EATON, P.E. |
| DESIGNER                | JOSH OLUND, P.E.  |
| CONSULTANT              | HNTB              |
| PROJECT RESIDENT        |                   |
| CONTRACTOR              |                   |
| PROJECT COMPLETION DATE |                   |

AUBURN BRIDGE

TAYLOR BROOK BRIDGE

2222400

WIN 022224.00

TITLE SHEET

SHEET NUMBER

1

OF 26

Date: 8/3/2020

Username:

Division:

Filename: 001\_Title.dgn

| ESTIMATED QUANTITIES |   |          |      |
|----------------------|---|----------|------|
| ITEM NO.             | DESCRIPTION   | QUANTITY | UNIT |
| 202.202              | Removing Pavement Surface   | 490      | SY   |
| 203.20               | Common Excavation   | 2,300    | CY   |
| 203.2318             | Disposal of Special Waste   | 1,030    | TON  |
| 203.25               | Granular Borrow   | 370      | CY   |
| 206.082              | Structural Earth Excavation - Major Structures, Plan Quantity                     | 470      | CY   |
| 304.10               | Aggregate Subbase Course - Gravel   | 440      | CY   |
| 403.208              | Hot Mix Asphalt, 12.5 mm Nominal Maximum Size                                     | 110      | Ton  |
| 403.209              | Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Sidewalks, Drives, & Incidentals)   | 1        | Ton  |
| 403.213              | Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base Course) | 120      | Ton  |
| 409.15               | Bituminous Tack Coat, Applied   | 73       | Gal  |
| 501.231              | Dynamic Loading Test  | 2        | EA   |
| 501.54               | Steel H-Beam Piles 117 lb/ft, delivered   | 260      | LF   |
| 501.541              | Steel H-Beam Piles 117 lb/ft, in-place  | 210      | LF   |
| 501.903              | Pile Tips - Rock Injector Point   | 10       | EA   |
| 501.92               | Pile Driving Equipment and Mobilization   | 1        | LS   |
| 502.219              | Structural Concrete, Abutments and Retaining Walls (135 CY)                       | 1        | LS   |
| 502.261              | Structural Concrete Roadway and Sidewalk Slab on Concrete Bridges (73 CY)         | 1        | LS   |
| 502.291              | Saw Cut Grooving (Longitudinal) (2,400 SF)  | 1        | LS   |
| 502.31               | Structural Concrete Approach Slab (24 CY)   | 1        | LS   |
| 502.49               | Structural Concrete Curbs and Sidewalks (7 CY)                                    | 1        | LS   |
| 503.12               | Reinforcing Steel, Fabricated and Delivered                                       | 13,300   | LB   |
| 503.13               | Reinforcing Steel, Placing  | 13,300   | LB   |
| 503.26               | Stainless Steel Reinforcement, Fabricated and Delivered                           | 12,700   | LB   |
| 503.27               | Stainless Steel Reinforcement, Placing  | 12,700   | LB   |
| 507.0821             | Steel Bridge Railing, 3 Bar (130 LF)  | 1        | LS   |
| 511.07               | Cofferdam: Abutment 1   | 1        | LS   |
| 511.07               | Cofferdam: Abutment 2   | 1        | LS   |
| 515.21               | Protective Coating for Concrete Surfaces (420 SY)                                 | 1        | LS   |
| 526.301              | Temporary Concrete Barrier, Type 1 (120 LF)                                       | 1        | LS   |
| 526.34               | Permanent Concrete Transition Barrier   | 4        | EA   |
| 530.30               | GFRP, Reinforcement Bars, Fabricated and Delivered                                | 20,000   | LF   |
| 530.31               | GFRP, Reinforcement Bars, Placing   | 20,000   | LF   |
| 535.622              | Prestressed Structural Concrete NEXT Beam (98 CY)                                 | 1        | LS   |
| 604.18               | Adjust Manhole or CB to Grade   | 3        | EA   |
| 606.1305             | 3" W-Beam Guardrail - Mid-Way Splice Flared Terminal                              | 3        | EA   |
| 606.1307             | Bridge Transition (Asymmetrical) - Type IA  | 3        | EA   |
| 606.1307             | Bridge Transition (Asymmetrical) - Type IA, Modified                              | 1        | EA   |
| 606.265              | Terminal End-Single Rail - Galvanized Steel                                       | 1        | EA   |
| 606.353              | Reflectorized Flexible Guardrail Marker   | 7        | EA   |
| 609.31               | Curb Type 3   | 130      | LF   |
| 610.08               | Plain Riprap  | 530      | CY   |
| 613.319              | Erosion Control Blanket   | 49       | SY   |
| 615.07               | Loam  | 27       | CY   |
| 618.13               | Seeding Method Number 1   | 0.6      | UN   |
| 618.14               | Seeding Method Number 2   | 4        | UN   |
| 619.12               | Mulch   | 5        | UN   |
| 619.14               | Erosion Control Mix   | 27       | CY   |
| 620.58               | Erosion Control Geotextile  | 760      | SY   |
| 620.66               | Drainage Geocomposite   | 93       | SY   |
| 627.733              | 4" White or Yellow Painted Pavement Marking Line                                  | 1,150    | LF   |
| 629.05               | Hand Labor, Straight Time   | 35       | HR   |
| 631.12               | All Purpose Excavator (including operator)  | 25       | HR   |
| 631.14               | Grader (including operator)   | 25       | HR   |
| 631.15               | Roller, earth and base (including operator)                                       | 25       | HR   |
| 631.172              | Truck-large (including operator)  | 25       | HR   |
| 639.19               | Field Office, Type B  | 1        | EA   |
| 643.71               | Traffic Signal Modification: Minot Avenue/Court Street/Manley Road                | 1        | LS   |
| 643.71               | Traffic Signal Modification: Court Street/Park Avenue                             | 1        | LS   |
| 643.72               | Temporary Traffic Signal: Mount Auburn/Park Avenue                                | 1        | LS   |
| 652.312              | Type III Barricades   | 11       | EA   |
| 652.33               | Drum  | 32       | EA   |
| 652.34               | Cone  | 32       | EA   |
| 652.35               | Construction Signs  | 600      | SF   |
| 652.361              | Maintenance of Traffic Control Devices (190 CD)                                   | 1        | LS   |
| 652.38               | Flaggers  | 360      | HR   |
| 652.41               | Portable-Changeable Message Sign  | 2        | EA   |
| 656.75               | Temporary Soil Erosion and Water Pollution Control                                | 1        | LS   |
| 659.10               | Mobilization  | 1        | LS   |

|                     |             |                              |             |                     |       |             |  |                      |  |                 |  |              |               |  |
|---------------------|-------------|------------------------------|-------------|---------------------|-------|-------------|--|----------------------|--|-----------------|--|--------------|---------------|--|
| STATE OF MAINE      |             | DEPARTMENT OF TRANSPORTATION |             | 2222400             |       | WIN         |  | 022224.00            |  | BRIDGE NO. 3225 |  | BRIDGE PLANS |               |  |
| TAYLOR BROOK BRIDGE |             | TAYLOR BROOK                 |             | ANDROSCOGGIN COUNTY |       | AUBURN      |  | ESTIMATED QUANTITIES |  | SHEET NUMBER    |  | 2            |               |  |
| PROJ. MANAGER       | D. Eaton    | BY                           | E. Raymond  | DATE                | 07/20 | SIGNATURE   |  | P.E. NUMBER          |  | DATE            |  |              |               |  |
| DESIGN-DETAILED     | E. Davidson | CHECKED-REVIEWED             | L. Driscoll | DESIGNS-DETAILED    |       | REVISIONS 1 |  | REVISIONS 2          |  | REVISIONS 3     |  | REVISIONS 4  |               |  |
|                     |             |                              |             |                     |       |             |  |                      |  |                 |  |              | FIELD CHANGES |  |



**GENERAL CONSTRUCTION NOTES**

1. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
2. Do not excavate for Aggregate Subbase Course - Gravel where existing material is suitable as determined by the Resident.
3. During construction, Hotel Road, between Chicoine Ave. and Sandy Beach Road, may be closed to traffic for a time period specified in the Special Provisions.
4. Place a 24 in. wide strip of Erosion Control Blanket on the sideslopes along the top of riprap and behind the wingwalls.
5. Unless otherwise noted, all embankment material placed below EL. 242.62 and beyond the abutment backfill limits shown on the "Abutment Details" sheet shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Material for Underwater Backfill.
6. The clearing limits as shown on the Plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract Items.
7. Loam shall be placed to a nominal depth of 4 inches in lawn areas and 2 inches in all other areas unless otherwise noted or directed.
8. Erosion Control Blankets or seeded gutters shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract Items.
9. Protective Coating for Concrete Surfaces shall be applied to the following areas:
  - All exposed surfaces of concrete curbs, Fascias down to the drip notch,
  - All exposed surfaces of Concrete Transition Barriers,
  - Top of abutment backwalls and to one foot below the top of backwalls on the back side, wingwalls top face and roadway face to one foot below roadway grade.
10. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item Number 619.14, Erosion Control Mix.
11. Seeding Method No. 1 shall be utilized on all lawns and developed areas; seeding method No. 2 shall be utilized on all other areas unless otherwise noted or directed.
12. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>.
13. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its lifespan.
14. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on the designer's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report or values provided in these plans will be representative of actual conditions at the time of construction.
15. The project geotechnical report titled: Geotechnical Design Report for the Replacement of Taylor Bridge, Hotel Road over Taylor Brook, Auburn, Maine, dated March 26, 2019 may be accessed at the MaineDOT web address.
16. Geotechnical information furnished or referred to in this Plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidder's or Contractor's interpretations or conclusions drawn from the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between boring locations.

17. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the contractor if the actual final quantities are different from MaineDOT provided estimated quantities, except as follows:

- a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items will take precedence.
- b. If other Contract Documents specifically allow a change in payment for Lump Sum pay item, those requirements will be followed.
- c. If a design change results in changes to estimated quantities for Lump Sum pay items, price and adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.

18. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident.

19. Gravel entrances shall be constructed with 14 in. Aggregate Subbase Course - Gravel.

20. A 3 ft. paved lip shall be placed at all unpaved entrances unless otherwise noted on the Plans or directed by the Resident.

21. Reinforcing bars within the Permanent Concrete Transition Barriers shall be stainless steel and shall be incidental to the Permanent Concrete Transition Barrier item.

22. For easements, construction limits, and Right-of-Way lines, refer to Right of Way Map.

23. The existing structural plate pipe culverts shall be removed and become property of the Contractor. The Contractor is responsible for the proper management and disposal in the process of demolishing the culverts. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the culverts are removed the Contractor is solely responsible for the care, custody, and removal of the culvert components. Payment for all labor, materials, equipment, and other costs to remove and dispose of the existing culverts will be considered incidental to Item 203.20, Common Excavation.

24. All earthwork activities below ordinary high water shall occur within cofferdams.

25. The section of existing sewer main located between existing manholes at approximate stations 171+35 and 173+35 Lt will be plugged and abandon in place, by others. Removal and disposal of this section of sewer main shall be the responsibility of the Contractor. Payment for removal and disposal will be considered incidental to Item 203.20, Common Excavation.

Date: 8/4/2020

Username:

Division:

Filename: 003\_GeneralNotes.dgn

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2222400  
BRIDGE NO. 3225  
WIN  
022224.00  
BRIDGE PLANS

|                  |             |                  |            |
|------------------|-------------|------------------|------------|
| PROJ. MANAGER    | D. Eaton    | DATE             | 07/20      |
| DESIGN-DETAILED  | E. Davidson | CHECKED-REVIEWED | E. Raymond |
| CHECKED-REVIEWED | L. Driscoll | DESIGN-DETAILED  | J. O'Neil  |
| DESIGN-DETAILED  |             | REVISIONS 1      |            |
| REVISIONS 1      |             | REVISIONS 2      |            |
| REVISIONS 2      |             | REVISIONS 3      |            |
| REVISIONS 3      |             | REVISIONS 4      |            |
| REVISIONS 4      |             | FIELD CHANGES    |            |

|           |             |      |
|-----------|-------------|------|
| SIGNATURE | P.E. NUMBER | DATE |
|           |             |      |

TAYLOR BROOK BRIDGE  
TAYLOR BROOK  
ANDROSCOGGIN COUNTY  
AUBURN  
GENERAL NOTES

SHEET NUMBER  
3  
OF 26

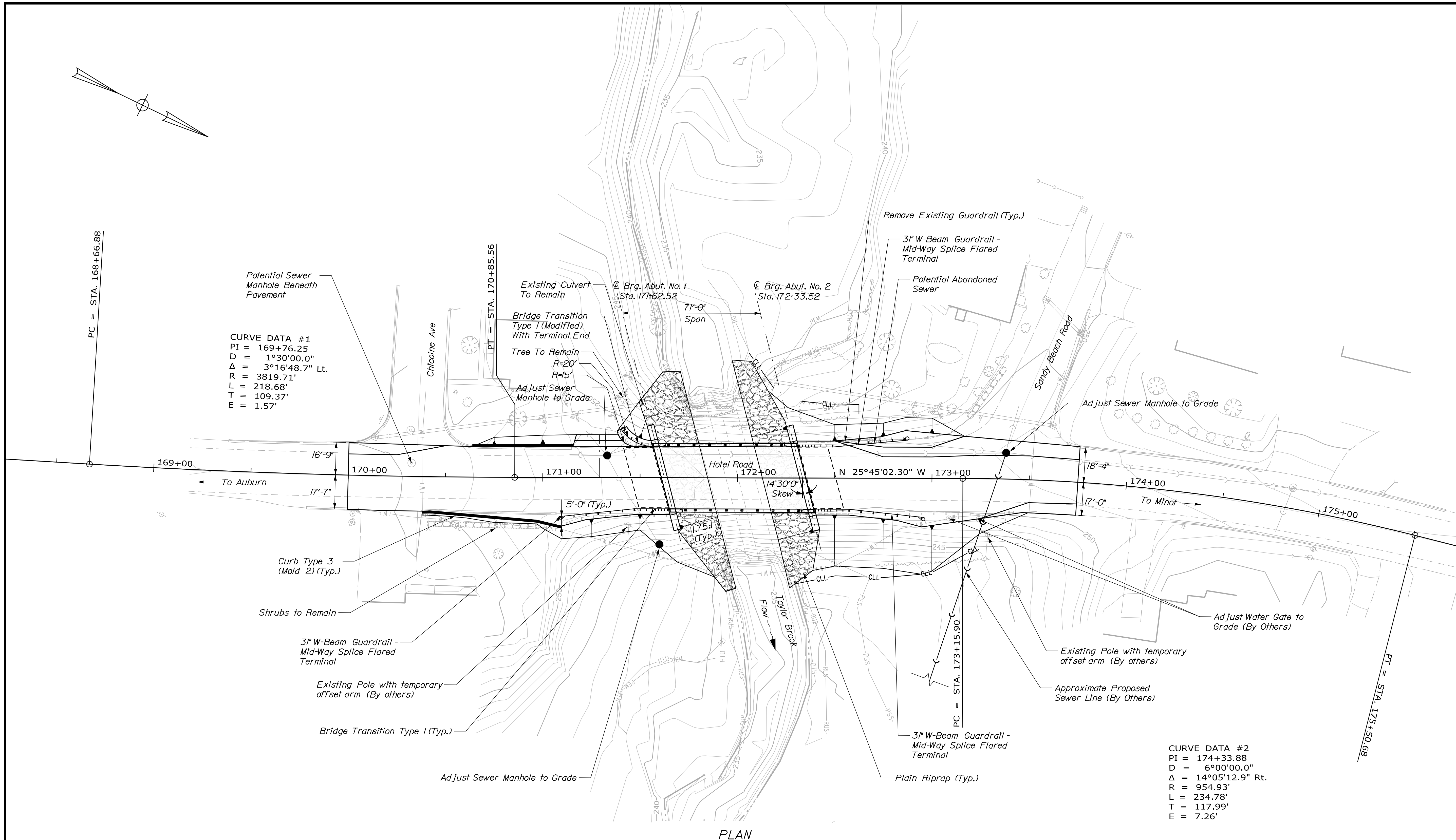


Date: 8/3/2020

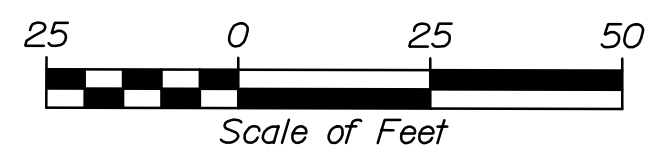
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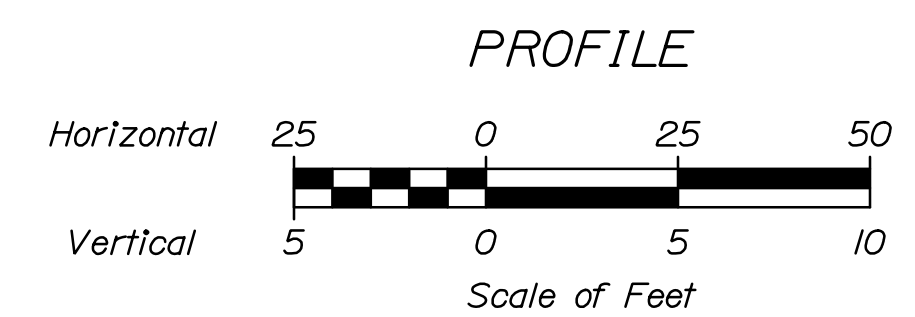
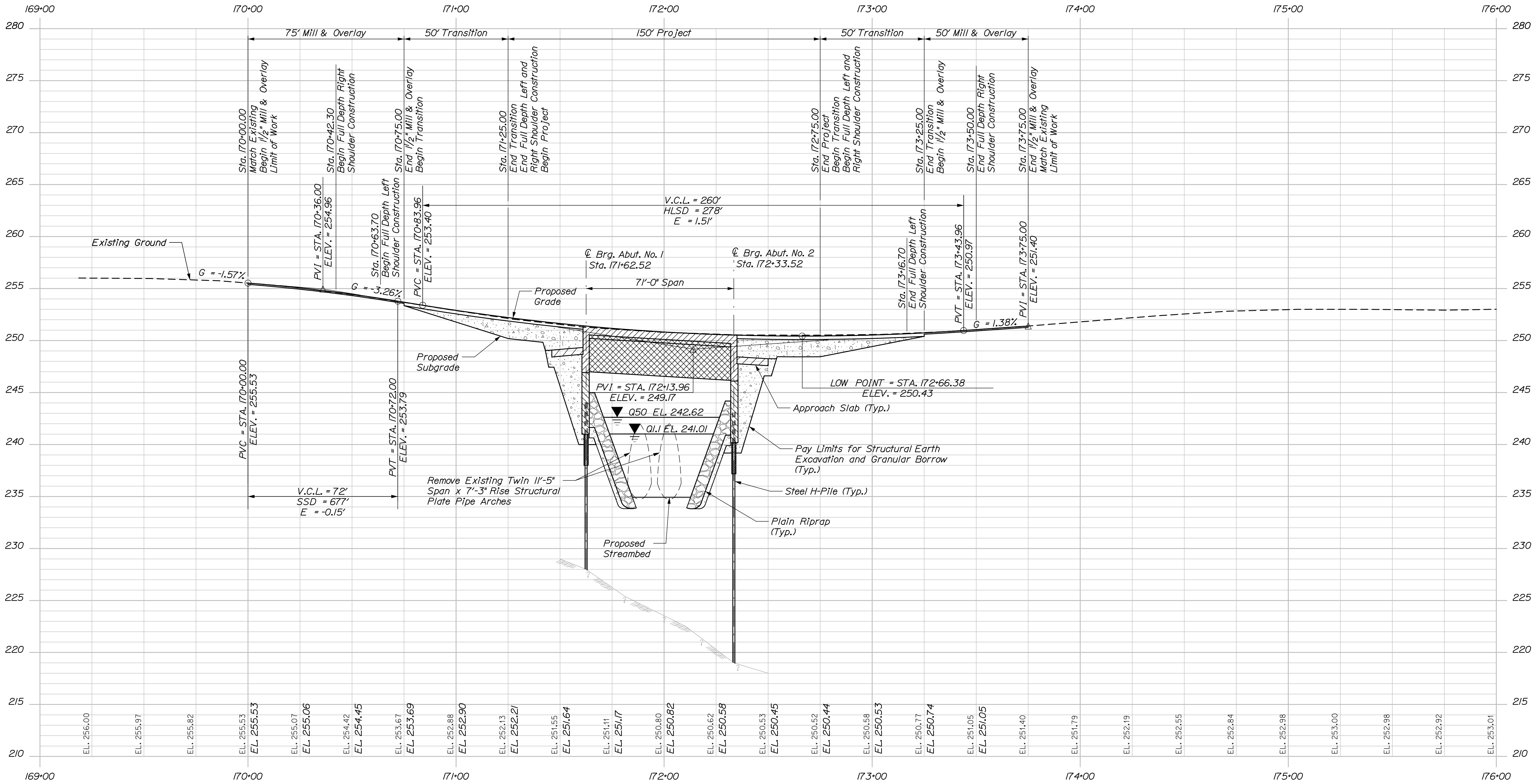


PLAN



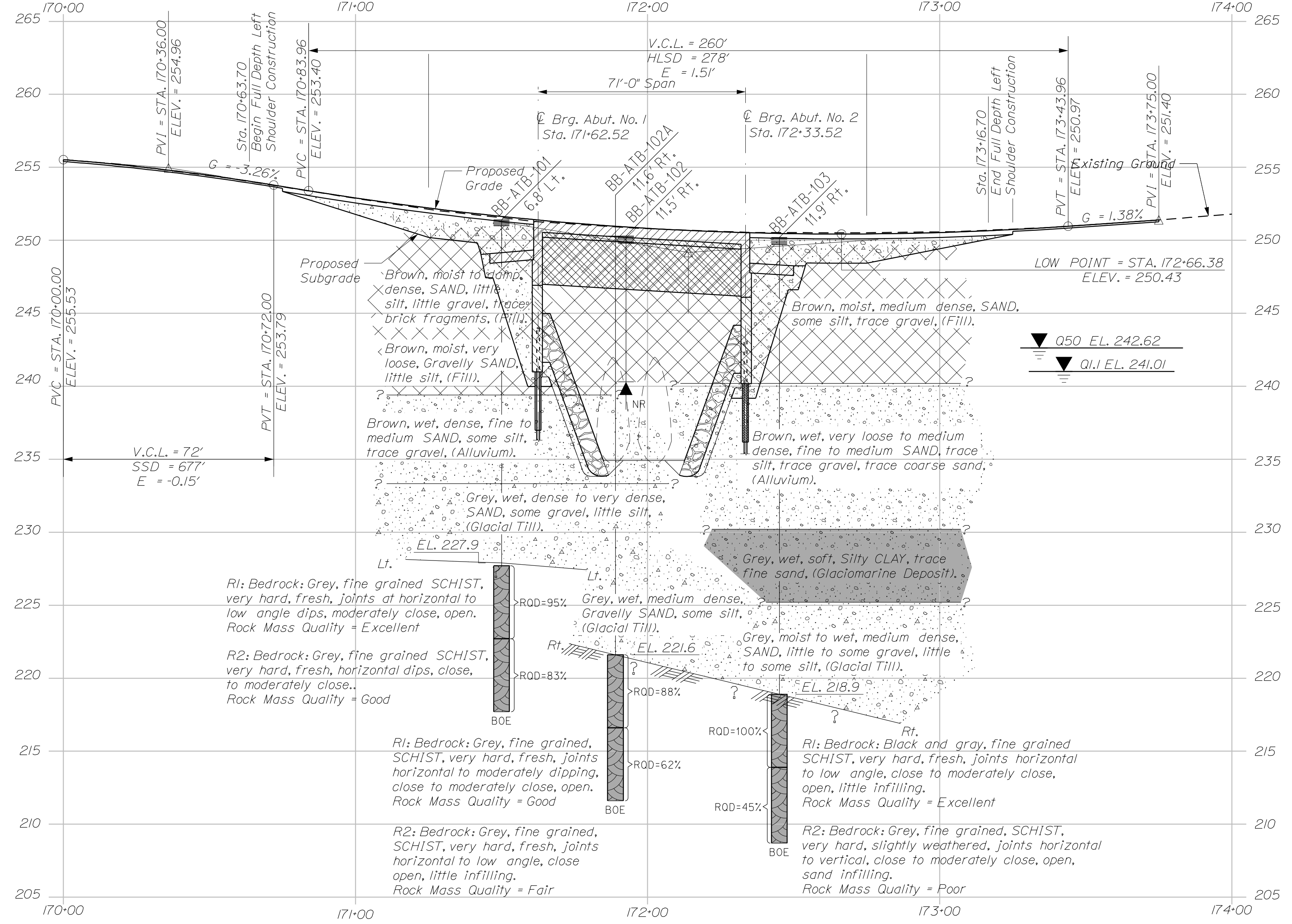
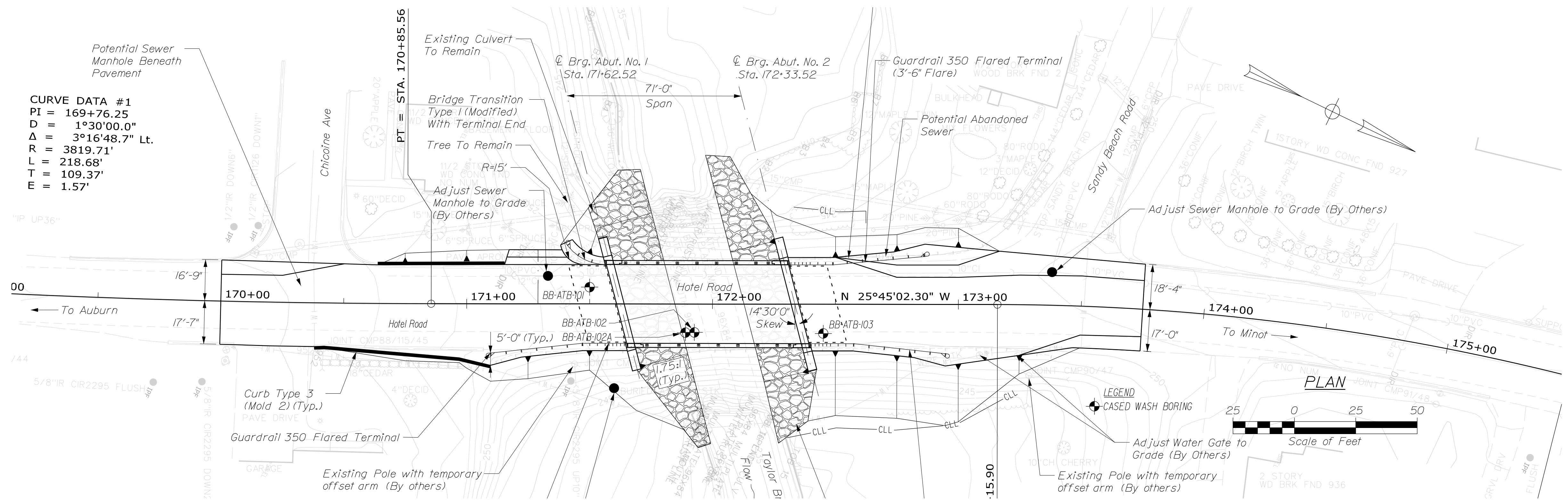
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|--|------------|-----------------|-------------|------------------|-------------|------------------|--|-------------|--|--------------|--|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION             |            | 2222400         |             | BRIDGE NO. 3225  |             | WIN              |  | 022224.00   |  | BRIDGE PLANS |  |
| TAYLOR BROOK BRIDGE<br>TAYLOR BROOK<br>ANDROSCOGGIN COUNTY |            | AUBURN          |             | GENERAL PLAN     |             | SHEET NUMBER     |  | 4           |  | OF 26        |  |
| PROJ. MANAGER  | D. Eaton   | DESIGN-DETAILED | E. Davidson | CHECKED-REVIEWED | L. Driscoll | DESIGNS-DETAILED |  | REVISIONS 1 |  | REVISIONS 2  |  |
| BY   | E. Raymond | DATE            | 07/20       | SIGNATURE        |             | P.E. NUMBER      |  | DATE        |  |              |  |
| REVISIONS 3  |            | REVISIONS 4     |             | FIELD CHANGES    |             |                  |  |             |  |              |  |





|  |             |               |                         |
|--|-------------|---------------|-------------------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION             |             | 2222400       |                         |
| TAYLOR BROOK BRIDGE<br>TAYLOR BROOK<br>ANDROSCOGGIN COUNTY |             | AUBURN        |                         |
| PROFILE  |             | SHEET NUMBER  |                         |
| 5  |             | OF 26         |                         |
| PROJ. MANAGER  | D. Eaton    | BY            | E. Raymond<br>J. O'Neil |
| DESIGN-DETAILED  | E. Davidson | DATE          | 07/20                   |
| CHECKED-REVIEWED   | L. Driscoll | DATE          | 07/20                   |
| DESIGN-DETAILED  |             | SIGNATURE     |                         |
| REVISIONS 1  |             | P.E. NUMBER   |                         |
| REVISIONS 2  |             | DATE          |                         |
| REVISIONS 3  |             |               |                         |
| REVISIONS 4  |             |               |                         |
| FIELD CHANGES  |             |               |                         |
| BRIDGE NO. 3225  |             | WIN 022224.00 |                         |
| BRIDGE PLANS   |             |               |                         |





**LEGEND**  
 Boring No. / Offset, if shown  
 Pavement Thickness, if applicable  
 Rock Quality Designation of Bedrock Core Sample  
 BOE = Bottom of Exploration  
 No Refusal (NR)  
 Refusal (R)

**PROFILE**  
 HORIZ 25 0 25 50  
 VERT 5 0 5 10  
 SCALE

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

|                      |    |                              |                 |                     |             |           |                  |  |                    |                 |             |              |             |
|----------------------|----|------------------------------|-----------------|---------------------|-------------|-----------|------------------|--|--------------------|-----------------|-------------|--------------|-------------|
| STATE OF MAINE       |    | DEPARTMENT OF TRANSPORTATION |                 | 2222400             |             | WIN       |                  | 022224.00  |                    | BRIDGE NO. 3225 |             | BRIDGE PLANS |             |
| TAYLOR BROOK BRIDGE  |    | TAYLOR BROOK                 |                 | ANDROSCOGGIN COUNTY |             | AUBURN    |                  | BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE |                    | SHEET NUMBER    |             | 6            |             |
| PROJ. MANAGER        | BY | DATE                         | DESIGN/DETAILED | SIGNATURE           | P.E. NUMBER | DATE      | CHECKED/REVIEWED |  | DESIGNS DET/TAILED | REVISIONS 1     | REVISIONS 2 | REVISIONS 3  | REVISIONS 4 |
|                      |    |                              |                 | T. WHITE            |             | JUN. 2018 |                  |  |                    |                 |             |              |             |
| <p>FIELD CHANGES</p> |    |                              |                 |                     |             |           |                  |  |                    |                 |             |              |             |



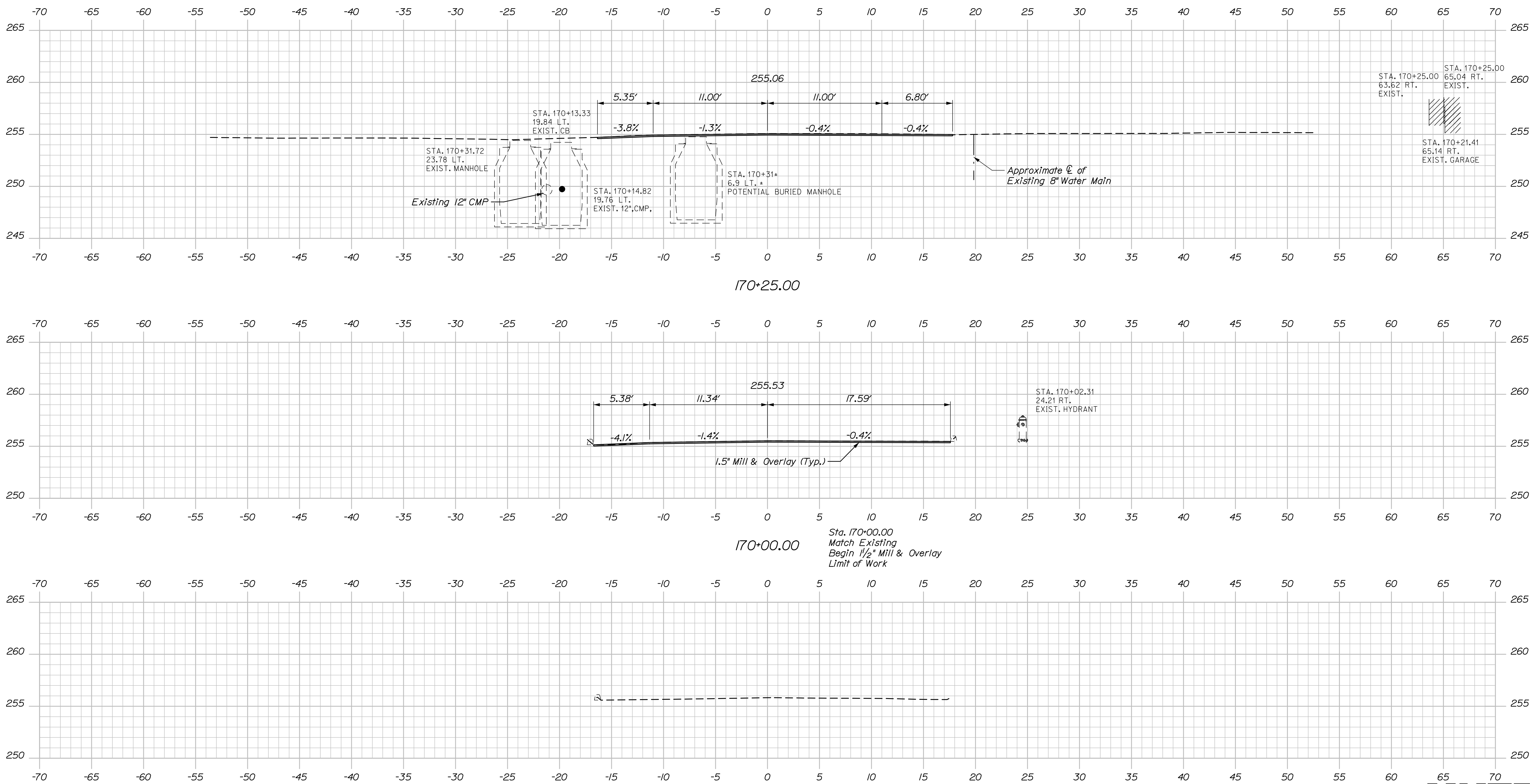


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|                     |  |                              |  |                     |  |
|---------------------|--|------------------------------|--|---------------------|--|
| STATE OF MAINE      |  | DEPARTMENT OF TRANSPORTATION |  | 2222400             |  |
| TAYLOR BROOK BRIDGE |  | TAYLOR BROOK                 |  | ANDROSCOGGIN COUNTY |  |
| AUBURN              |  | CROSS SECTIONS               |  | SHEET NUMBER        |  |
| 9                   |  | OF 26                        |  | BRIDGE NO. 3225     |  |
| WIN                 |  | 022224.00                    |  | BRIDGE PLANS        |  |

| PROJ. MANAGER | DESIGN-DETAILED | CHECKED-REVIEWED | DESIGN-DETAILED | DESIGN-DETAILED | REVISIONS 1 | REVISIONS 2 | REVISIONS 3 | REVISIONS 4 | FIELD CHANGES |
|---------------|-----------------|------------------|-----------------|-----------------|-------------|-------------|-------------|-------------|---------------|
| D. Eaton      | E. Davidson     | E. Raymond       | L. Driscoll     |                 |             |             |             |             |               |
|               |                 |                  |                 |                 |             |             |             |             |               |

| DATE  | SIGNATURE | P.E. NUMBER | DATE |
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| 07/20 |           |             |      |
| 07/20 |           |             |      |



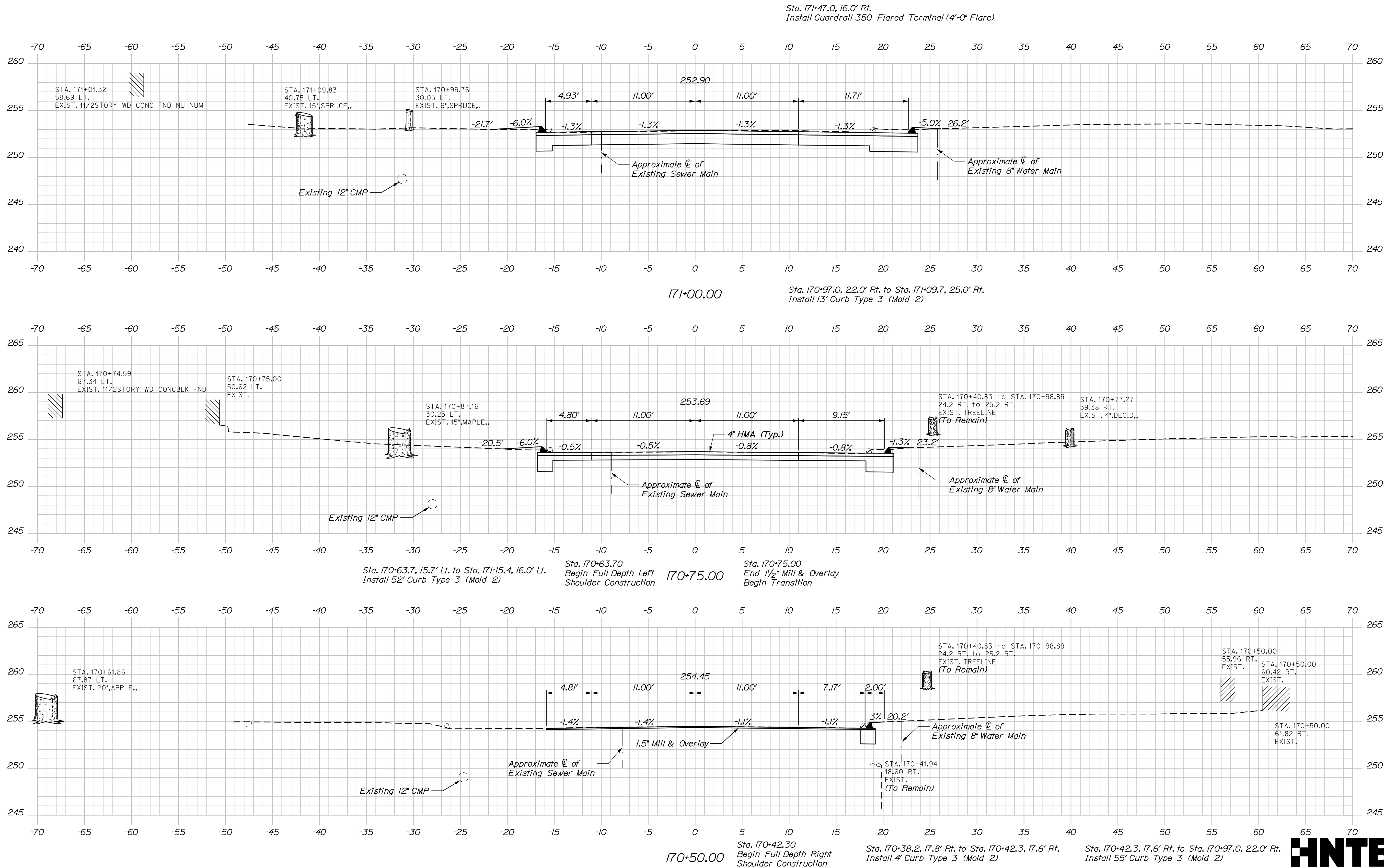
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Filename: Xsect.dgn



|  |            |                 |             |                     |             |                 |             |                                  |             |
|--|------------|-----------------|-------------|---------------------|-------------|-----------------|-------------|----------------------------------|-------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION |            | 2222400         |             | WIN<br>022224.00    |             | BRIDGE NO. 3225 |             | BRIDGE PLANS                     |             |
| TAYLOR BROOK BRIDGE                            |            | TAYLOR BROOK    |             | ANDROSCOGGIN COUNTY |             | AUBURN          |             | CROSS SECTIONS                   |             |
| PROJ. MANAGER                                  | D. Eaton   | DESIGN-DETAILED | E. Davidson | CHECKED-REVIEWED    | L. Driscoll | DESIGN-DETAILED | REVISIONS 1 | REVISIONS 2                      | REVISIONS 3 |
| BY   | E. Raymond | DATE            | 07/20       | DATE                | 07/20       | SIGNATURE       |             | P.E. NUMBER                      |             |
| DATE   |            | DATE            |             | DATE                |             | DATE            |             | DATE                             |             |
| SHEET NUMBER                                   |            | 10              |             | OF 26               |             | HNTB            |             | Sta. 170+50.00 to Sta. 171+00.00 |             |

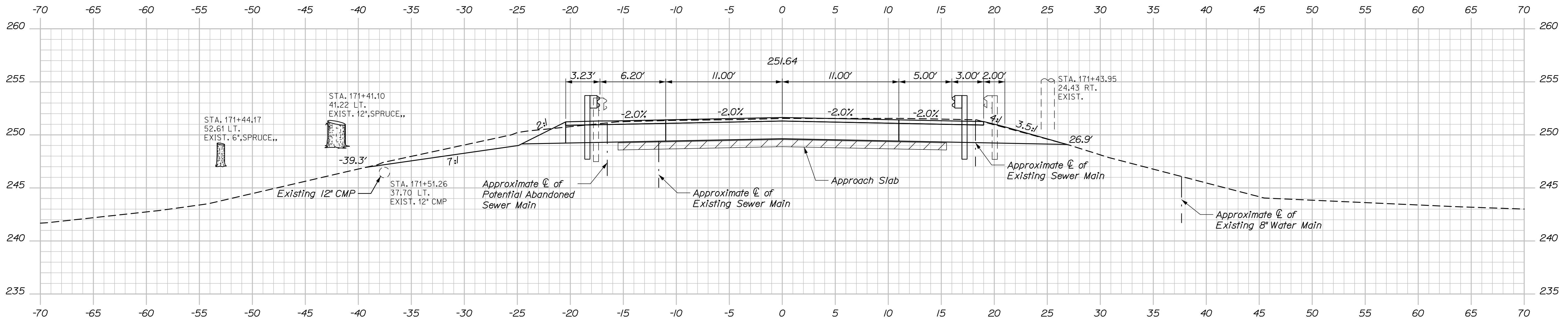
Date: 8/3/2020

Username:

Division:

Filename: Xsect.dgn

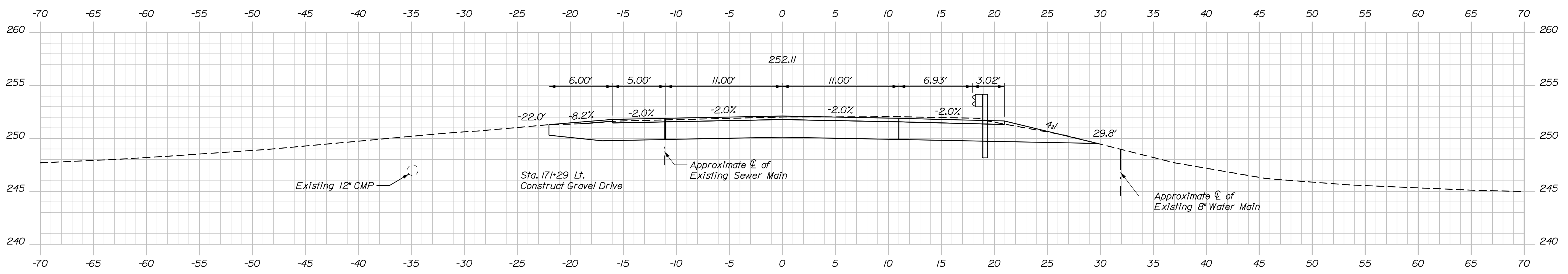
Bridge from Sta. 171+62.52, to Sta. 172+33.52.



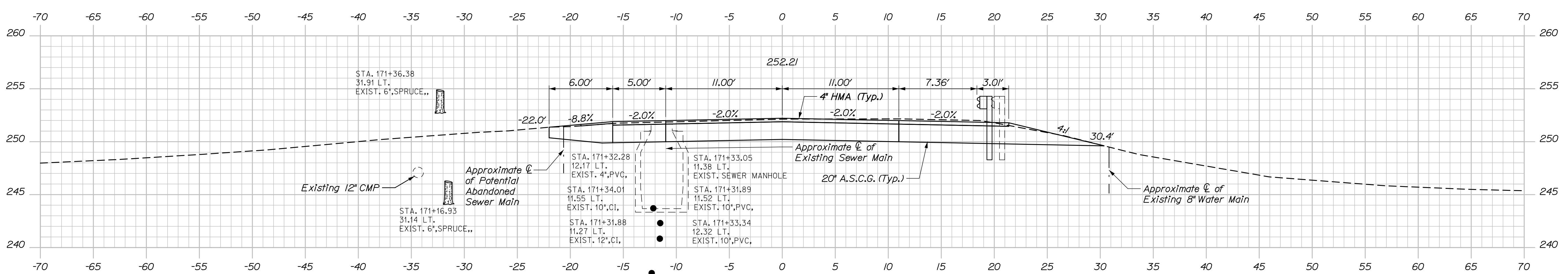
Sta. 171+41.1, 23.7' Lt. to Bridge  
Install Bridge Transition Type I (Modified)

171+50.00

Sta. 171+47.0, 16.0' Rt. to Bridge  
Install Bridge Transition Type I



171+29.00



171+25.00

Sta. 171+25.00  
End Transition  
End Full Depth Left and  
Right Shoulder Construction  
Begin Project  
WIN 22224.00

|  |  |              |  |                                  |  |           |  |                 |  |              |  |
|--|--|--------------|--|----------------------------------|--|-----------|--|-----------------|--|--------------|--|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION |  | 2222400      |  | WIN                              |  | 022224.00 |  | BRIDGE NO. 3225 |  | BRIDGE PLANS |  |
| TAYLOR BROOK BRIDGE                            |  | TAYLOR BROOK |  | ANDROSCOGGIN COUNTY              |  | AUBURN    |  | CROSS SECTIONS  |  | SHEET NUMBER |  |
| 11   |  | OF 26        |  | Sta. 171+25.00 to Sta. 171+50.00 |  | HNTB      |  |                 |  |              |  |



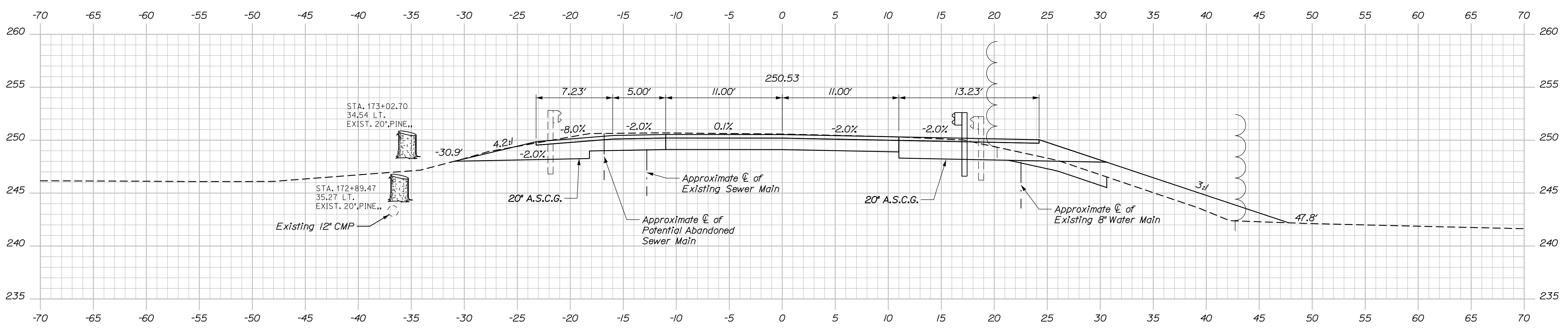
Sta. 171+25.00 to Sta. 171+50.00

Date: 8/3/2020

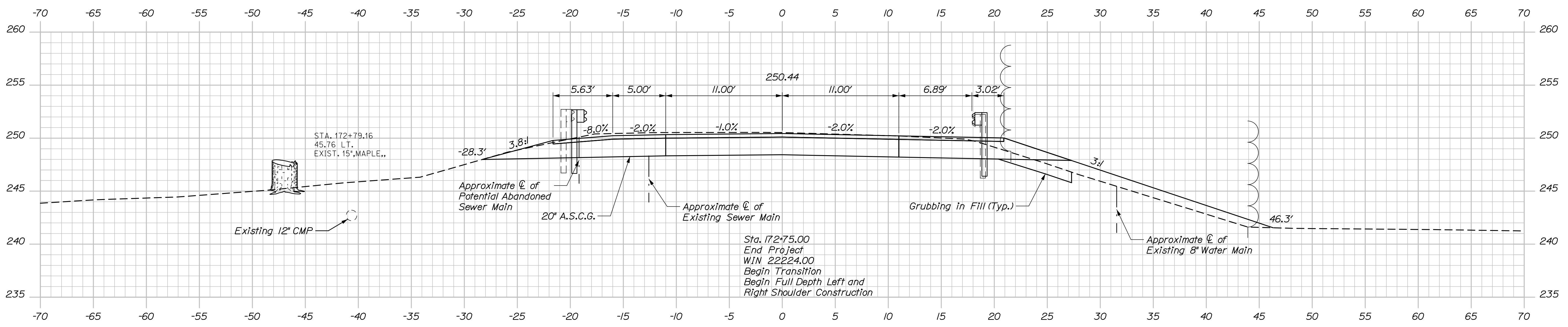
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Division:

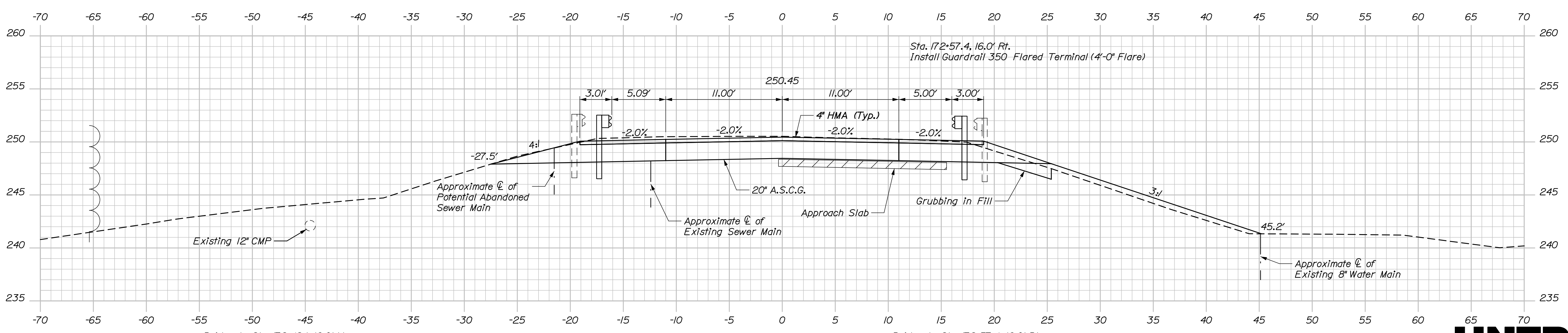
Filename: Xsect.dgn



173+00.00



172+75.00



172+50.00

Bridge to Sta. 172+49.1, 16.0' Lt.  
Install Bridge Transition Type I

Sta. 172+49.1, 16.0' Lt.  
Install Guardrail 350 Flared Terminal (3'-6\"/>

Bridge to Sta. 172+57.4, 16.0' Rt.  
Install Bridge Transition Type I



Sta. 172+50.00 to Sta. 173+00.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2222400  
WIN 022224.00  
BRIDGE NO. 3225  
BRIDGE PLANS

| PROJ. MANAGER | DATE  | BY          | DATE  | SIGNATURE | P.E. NUMBER | DATE |
|---------------|-------|-------------|-------|-----------|-------------|------|
| D. Eaton      | 07/20 | E. Raymond  | 07/20 |           |             |      |
| E. Davidson   |       | L. Driscoll |       |           |             |      |
| L. Driscoll   |       |             |       |           |             |      |
|               |       |             |       |           |             |      |
|               |       |             |       |           |             |      |
|               |       |             |       |           |             |      |
|               |       |             |       |           |             |      |
|               |       |             |       |           |             |      |
|               |       |             |       |           |             |      |

| DESIGN-DETAILED | CHECKED-REVIEWED | DESIGN-DETAILED | REVISIONS 1 | REVISIONS 2 | REVISIONS 3 | REVISIONS 4 | FIELD CHANGES |
|-----------------|------------------|-----------------|-------------|-------------|-------------|-------------|---------------|
|                 |                  |                 |             |             |             |             |               |
|                 |                  |                 |             |             |             |             |               |
|                 |                  |                 |             |             |             |             |               |
|                 |                  |                 |             |             |             |             |               |

TAYLOR BROOK BRIDGE  
TAYLOR BROOK  
ANDROSCOGGIN COUNTY  
AUBURN  
CROSS SECTIONS

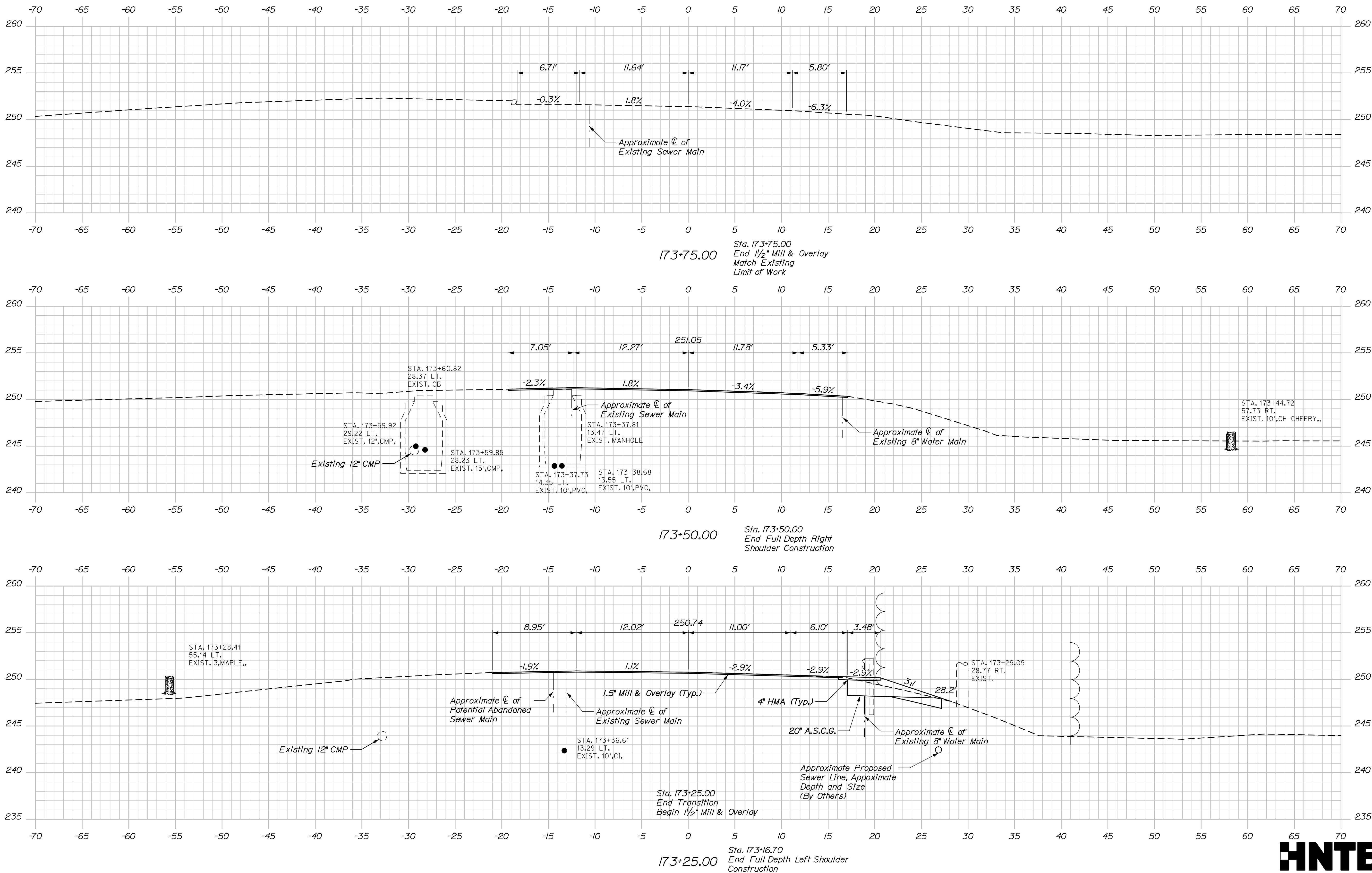
SHEET NUMBER  
**12**  
OF 26

Date: 8/3/2020

Username:

Division:

Filename: Xsect.dgn



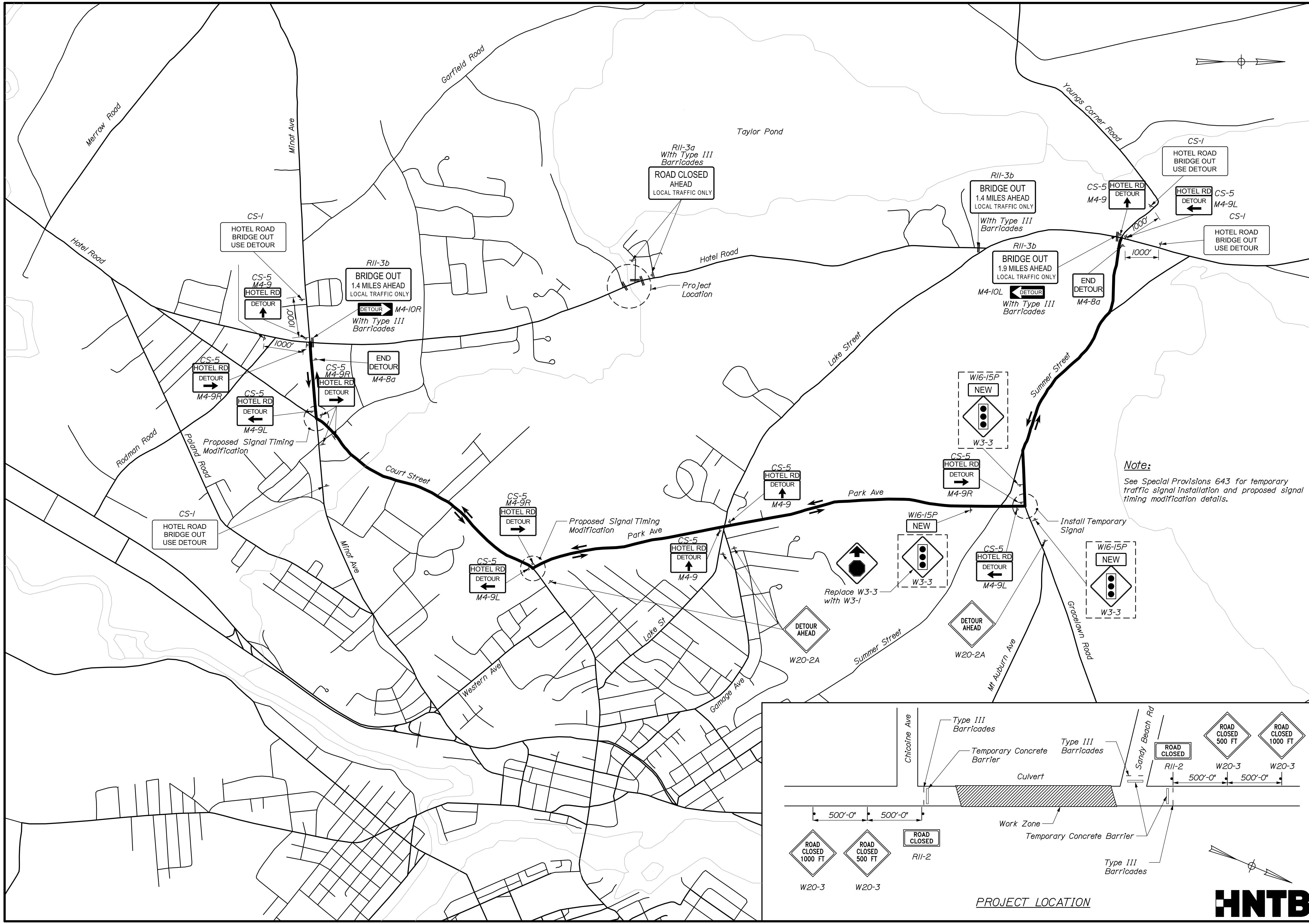
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|--|-------|----------------------------------|-------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION             |       | 2222400                          |             |
| TAYLOR BROOK BRIDGE<br>TAYLOR BROOK<br>ANDROSCOGGIN COUNTY |       | CROSS SECTIONS                   |             |
| AUBURN   |       | SHEET NUMBER                     |             |
| 13   |       | OF 26                            |             |
| HNTB   |       | Sta. 173+25.00 to Sta. 173+75.00 |             |
| WIN  |       | BRIDGE NO. 3225                  |             |
| 022224.00  |       | BRIDGE PLANS                     |             |
| PROJ. MANAGER  | DATE  | DESIGN-DETAILED                  | SIGNATURE   |
| D. Eaton   | 07/20 | E. Davidson                      |             |
| CHECKED-REVIEWED   | DATE  | CHECKED-REVIEWED                 | DATE        |
| L. Driscoll  | 07/20 | J. O'Neil                        |             |
| DESIGN-DETAILED  |       | DESIGN-DETAILED                  |             |
| REVISIONS 1  |       | REVISIONS 1                      | P.E. NUMBER |
| REVISIONS 2  |       | REVISIONS 2                      | DATE        |
| REVISIONS 3  |       | REVISIONS 3                      |             |
| REVISIONS 4  |       | REVISIONS 4                      |             |
| FIELD CHANGES  |       | FIELD CHANGES                    |             |

Date: 8/3/2020

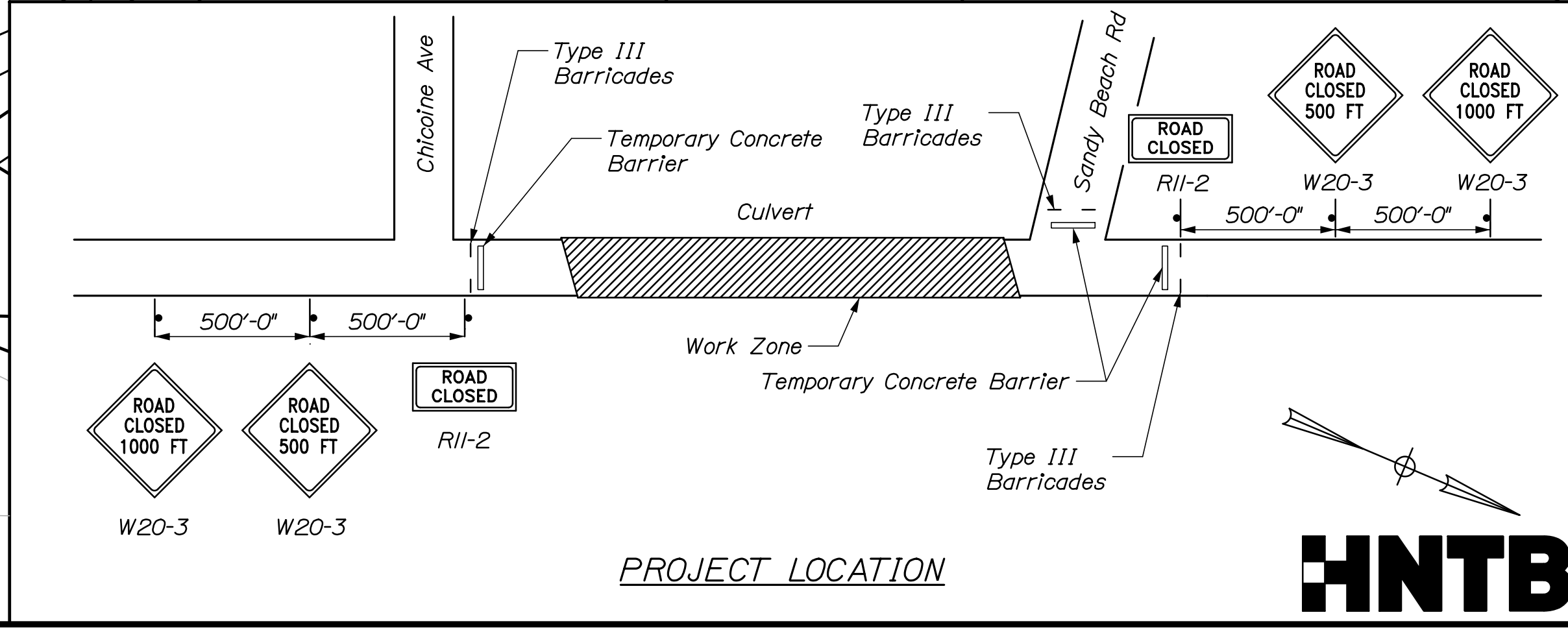
Username:

Division:

Filename: 014\_Detour Plan.dgn



**Note:**  
See Special Provisions 643 for temporary traffic signal installation and proposed signal timing modification details.



|  |             |                  |                         |                 |                |
|--|-------------|------------------|-------------------------|-----------------|----------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION                       |             | 2222400          |                         | WIN 022224.00   |                |
| TAYLOR BROOK BRIDGE<br>TAYLOR BROOK<br>ANDROSCOGGIN COUNTY<br>AUBURN |             | DETOUR PLAN      |                         | BRIDGE NO. 3225 |                |
| SHEET NUMBER   |             | 14               |                         | OF 26           |                |
| PROJ. MANAGER  | D. Eaton    | BY               | E. Raymond<br>J. O'Neil | DATE            | 07/20<br>07/20 |
| DESIGN-DETAILED  | E. Davidson | CHECKED-REVIEWED | L. Driscoll             | SIGNATURE       |                |
| DESIGNS-DETAILED   |             | DESIGNS-DETAILED |                         | P.E. NUMBER     |                |
| REVISIONS 1  |             | REVISIONS 1      |                         | DATE            |                |
| REVISIONS 2  |             | REVISIONS 2      |                         |                 |                |
| REVISIONS 3  |             | REVISIONS 3      |                         |                 |                |
| REVISIONS 4  |             | REVISIONS 4      |                         |                 |                |
| FIELD CHANGES  |             | FIELD CHANGES    |                         |                 |                |



CONSTRUCTION SIGN SUMMARY

| IDENTIFICATION NUMBER    | SIZE OF SIGN |        | TEXT  | TEXT DIMENSIONS (INCHES)  |                  |                 | NUMBER OF SIGNS REQUIRED | COLOR       |               | AREA IN SQUARE FEET         |
|--------------------------|--------------|--------|---|---|------------------|-----------------|--------------------------|-------------|---------------|-----------------------------|
|                          | WIDTH        | HEIGHT |   | LETTER HEIGHT   | VERTICAL SPACING | ARROW RTE. MKR. |                          | BACK-GROUND | LEGEND BORDER |                             |
| CS-1                     | 36"          | 30"    | HOTEL ROAD<br>BRIDGE OUT<br>USE DETOUR              | 4"<br>4"<br>4"  | 3"<br>3"         |                 | 4                        | ORANGE      | BLACK         | 7.50<br>(30.00)             |
| CS-2                     | 30"          | 12"    | HOTEL RD  | 4"  |                  |                 | 14                       | ORANGE      | BLACK         | 2.50<br>(35.00)             |
| M4-8a                    | 24"          | 18"    | END<br>DETOUR                                       | TEXT DIMENSIONS SHALL<br>CONFORM TO "STANDARD<br>HIGHWAY SIGNS" |                  |                 | 2                        | ORANGE      | BLACK         | 3.00<br>(6.00)              |
| M4-9                     | 30"          | 24"    | DETOUR<br>↑   |   |                  |                 | 4                        | ORANGE      | BLACK         | 5.00<br>(20.00)             |
| M4-9R                    | 30"          | 24"    | DETOUR<br>→   |   |                  |                 | 6                        | ORANGE      | BLACK         | 5.00<br>(30.00)             |
| M4-9L                    | 30"          | 24"    | DETOUR<br>←   |   |                  |                 | 4                        | ORANGE      | BLACK         | 5.00<br>(20.00)             |
| M4-10L                   | 48"          | 18"    | ←<br>DETOUR   |   |                  |                 | 1                        | ORANGE      | BLACK         | 6.00<br>(6.00)              |
| M4-10R                   | 48"          | 18"    | DETOUR<br>→   |   |                  |                 | 1                        | ORANGE      | BLACK         | 6.00<br>(6.00)              |
| R11-2                    | 48"          | 30"    | ROAD<br>CLOSED                                      |   |                  |                 | 3                        | ORANGE      | BLACK         | 10.00<br>(30.00)            |
| R11-3a                   | 60"          | 30"    | ROAD CLOSED<br>AHEAD<br>LOCAL TRAFFIC ONLY          |   |                  |                 | 2                        | ORANGE      | BLACK         | 12.50<br>(25.00)            |
| R11-3b<br>(1.4)<br>(1.9) | 60"          | 30"    | BRIDGE OUT<br>X.X MILES AHEAD<br>LOCAL TRAFFIC ONLY |   |                  |                 | 2<br>1                   | ORANGE      | BLACK         | 12.50<br>(25.00)<br>(12.50) |
| W3-1                     | 36"          | 36"    |   |   |                  |                 | 1                        | YELLOW      | BLACK         | 9.00<br>(9.00)              |

| IDENTIFICATION NUMBER          | SIZE OF SIGN |        | TEXT                     | TEXT DIMENSIONS (INCHES)  |                  |                 | NUMBER OF SIGNS REQUIRED | COLOR       |               | AREA IN SQUARE FEET         |
|--------------------------------|--------------|--------|--------------------------|---|------------------|-----------------|--------------------------|-------------|---------------|-----------------------------|
|                                | WIDTH        | HEIGHT |                          | LETTER HEIGHT   | VERTICAL SPACING | ARROW RTE. MKR. |                          | BACK-GROUND | LEGEND BORDER |                             |
| W3-3                           | 36"          | 36"    |                          | TEXT DIMENSIONS SHALL<br>CONFORM TO "STANDARD<br>HIGHWAY SIGNS" |                  |                 | 3                        | YELLOW      | BLACK         | 9.00<br>(27.00)             |
| W16-15P                        | 24"          | 12"    | NEW                      |   |                  |                 | 3                        | YELLOW      | BLACK         | 2.00<br>(6.00)              |
| W20-3<br>(500 FT)<br>(1000 FT) | 48"          | 48"    | ROAD<br>CLOSED<br>XXX FT |   |                  |                 | 2<br>2                   | ORANGE      | BLACK         | 16.00<br>(32.00)<br>(32.00) |
| W20-2A                         | 48"          | 48"    | DETOUR<br>AHEAD          |   |                  |                 | 4                        | ORANGE      | BLACK         | 16.00<br>(64.00)            |

Notes:

1. Sign locations are approximate and to be verified in the field by the Contractor and approved by the Resident.
2. Information shown reflects signage for detour plans only. Additional signage may be necessary for other maintenance of traffic activities.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2222400  
WIN  
022224.00  
BRIDGE NO. 3225  
BRIDGE PLANS

PROJ. MANAGER  
DESIGNED-DETAILED  
CHECKED-REVIEWED  
DESIGNS-DETAILED  
REVISIONS 1  
REVISIONS 2  
REVISIONS 3  
REVISIONS 4  
FIELD CHANGES

DATE  
07/20  
07/20  
BY  
D. Eaton  
E. Davidson  
E. Raymond  
L. Driscoll  
J. O'Neil  
SIGNATURE  
P.E. NUMBER  
DATE

TAYLOR BROOK BRIDGE  
TAYLOR BROOK  
ANDROSCOGGIN COUNTY  
AUBURN  
SIGN SUMMARY

SHEET NUMBER  
15  
OF 26



Date: 8/3/2020

Username:

Division:

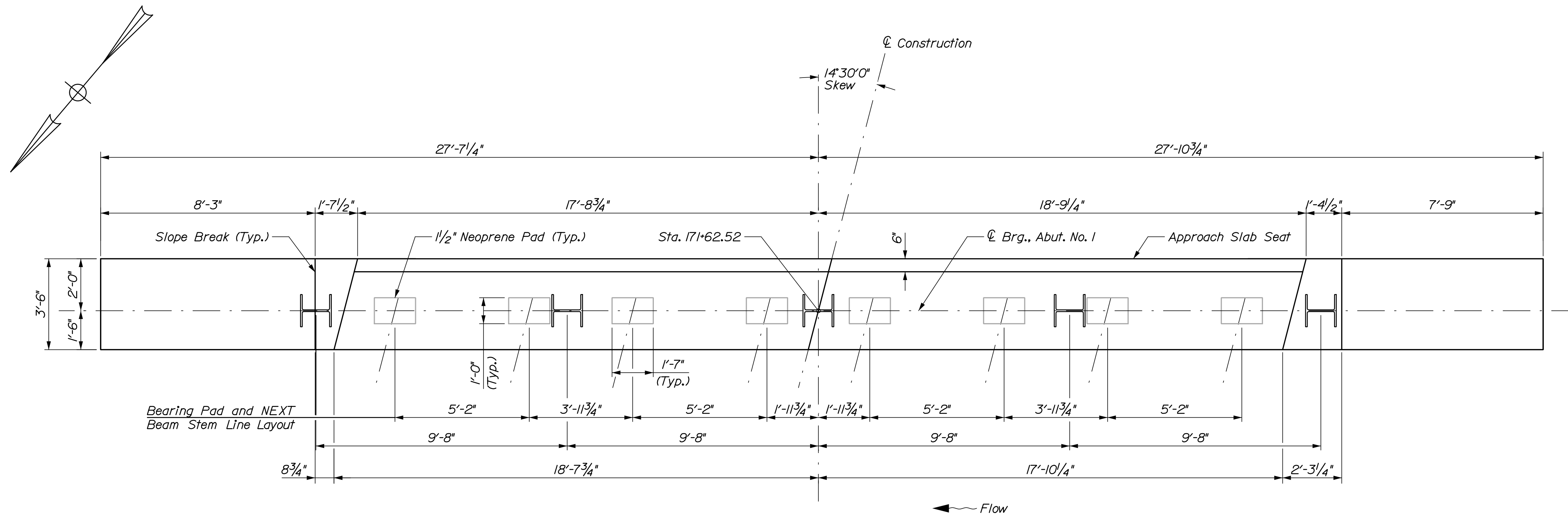
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Date: 8/3/2020

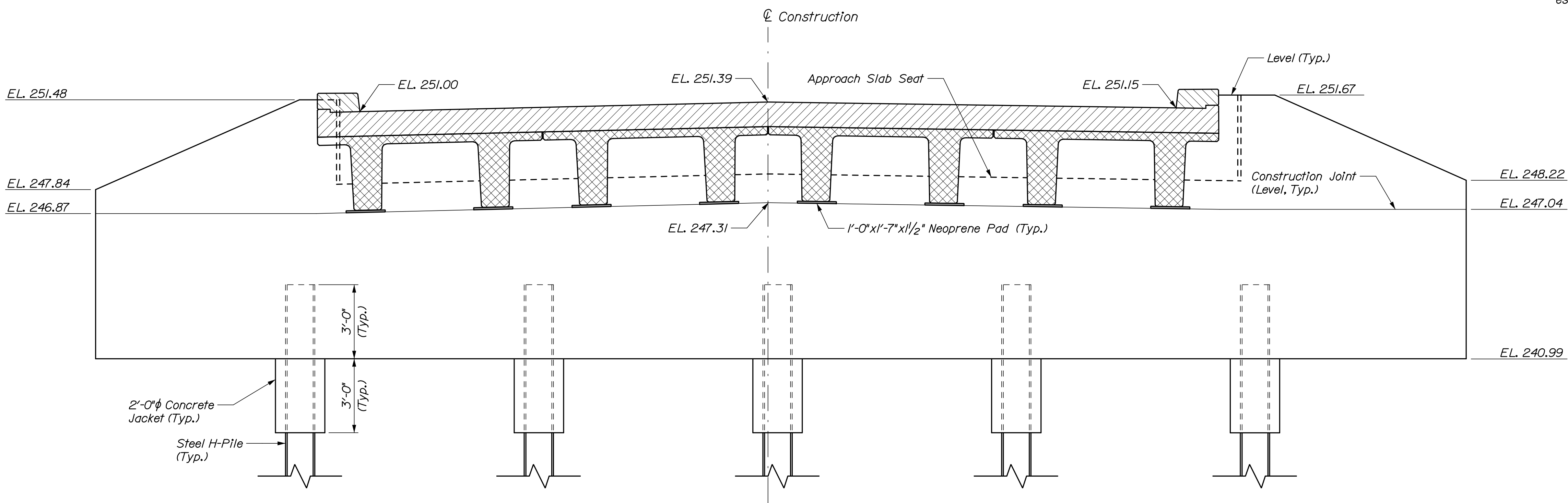
Username:

Division:

Filename: 016\_Abument 1.dgn



ABUTMENT NO. 1 PLAN



ABUTMENT NO. 1 ELEVATION

ABUTMENT NOTES

1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Cover joints where waterstops are not required in accordance with Standard Detail 502(O).
3. Place 4 inch diameter drains in abutment and wingwalls at 10 feet maximum spacing. The exact location will be determined by the Resident.
4. All elevations are provided at centerline of bearing unless otherwise noted.
5. Payment for concrete jacket around the tops of the H-piles will not be paid for directly. Payment shall be incidental to Item 502.219, Structural Concrete Abutment and Retaining Walls. Fill concrete may be used for the concrete jackets.

PILE NOTES

1. The maximum factored pile load is 340 kips (Strength I Load Combination).
2. Estimate of Piles required (5'-0" contingency included):  
 Abutment No. 1: 5 - HP 14x17 @ 22 ft  
 Abutment No. 2: 5 - HP 14x17 @ 30 ft
3. H-pile material shall be ASTM A572, Grade 50.
4. All piles shall be equipped with a pile tip in accordance with Special Provision 50I, Foundation Piles - Rock Injector Point.
5. Piles shall be driven to required resistance on or within bedrock in accordance with Standard Specification 50I.
6. The Contractor shall perform and submit a wave equation analysis for review and acceptance by the Resident. The maximum allowable driving stress is 0.90 times F<sub>y</sub>. The submittal analyses shall include the proposed stopping criteria based on the wave equation analysis and the proposed driving system.
7. The Contractor shall perform 2 dynamic load test(s), one at each abutment, to confirm the nominal capacity of the piles. The required nominal resistance for the pile is the factored axial pile load divided by a resistance factor of 0.65 per LRFD Specifications. The dynamic test shall be performed on the first production pile driven at each abutment. Minimum 24 hour restrikes shall be conducted on all test piles in order to ensure the required nominal resistance has been achieved and verify pile relaxation has not occurred. The Contractor may drive production piles to the preliminary driving criteria, however pile cut-off will not be permitted until completion of restrike testing and establishment of final driving criteria.

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2222400  
 WIN 022224.00  
 BRIDGE NO. 3225  
 BRIDGE PLANS

| PROJ. MANAGER    | D. Ector   | BY            | DATE  |
|------------------|------------|---------------|-------|
| DESIGN-DETAILED  | T. Pailin  | E. Beausoleil | 07/20 |
| CHECKED-REVIEWED | B. Greiner | J. O'Neil     | 07/20 |
| DESIGN-DETAILED  |            |               |       |
| REVISIONS 1      |            |               |       |
| REVISIONS 2      |            |               |       |
| REVISIONS 3      |            |               |       |
| REVISIONS 4      |            |               |       |
| FIELD CHANGES    |            |               |       |

| SIGNATURE | P.E. NUMBER | DATE |
|-----------|-------------|------|
|           |             |      |

TAYLOR BROOK BRIDGE  
 TAYLOR BROOK  
 ANDROSCOGGIN COUNTY  
 AUBURN  
 ABUTMENT NO. 1

SHEET NUMBER

16

OF 26

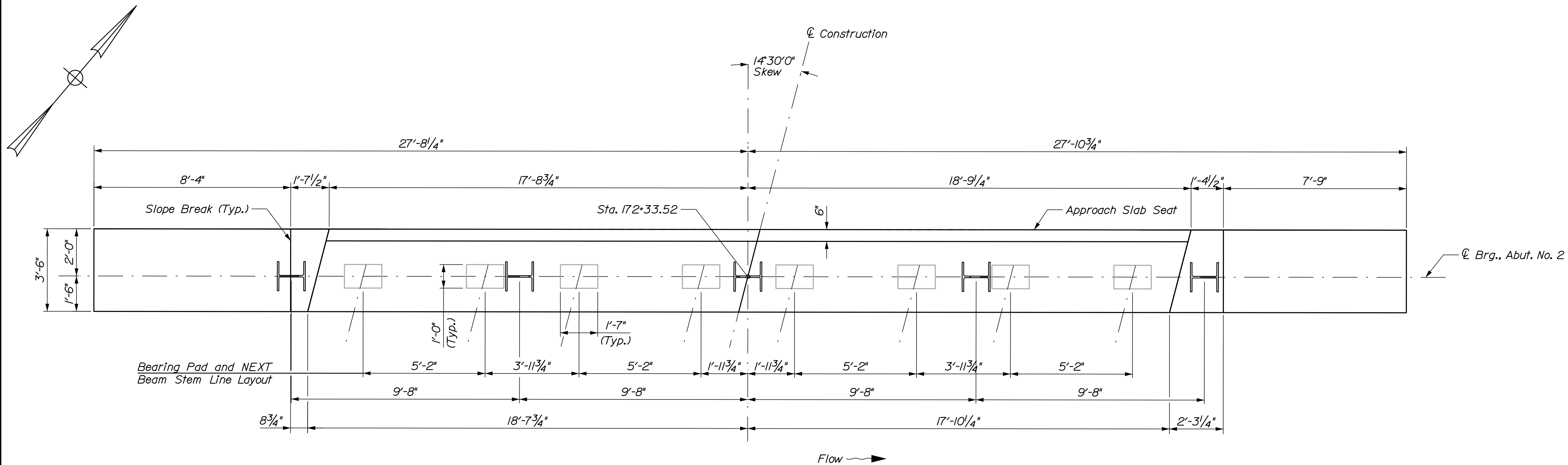


Date: 8/3/2020

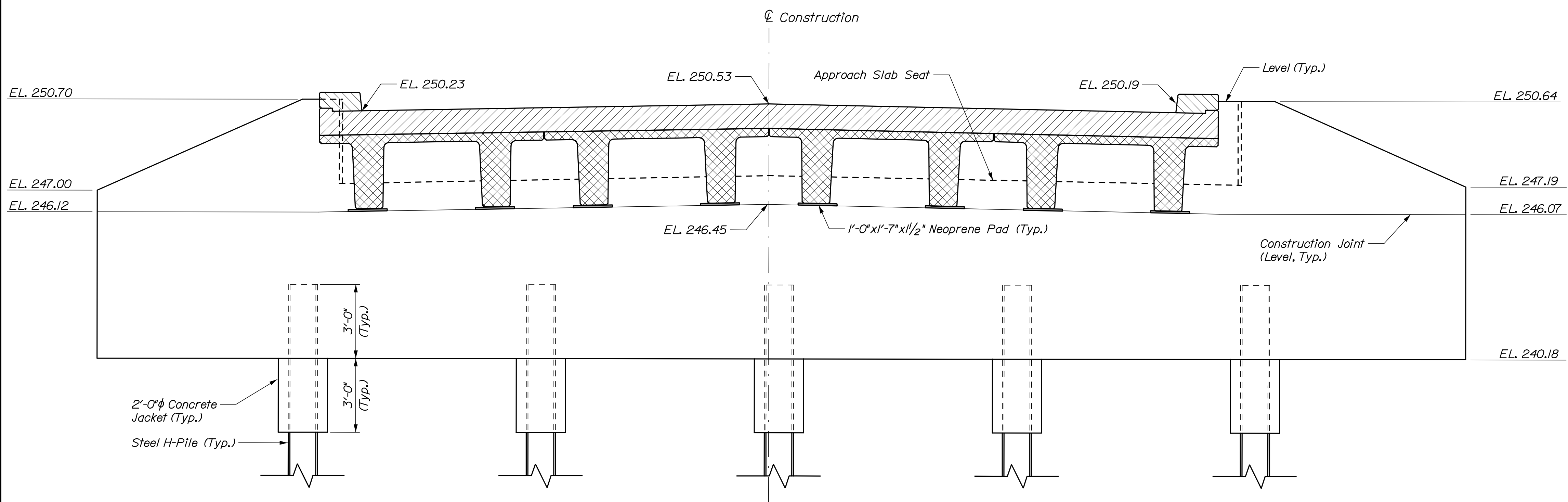
Username:

Division:

Filename: 017\_Abument 2.dgn



ABUTMENT NO. 2 PLAN



ABUTMENT NO. 2 ELEVATION

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2222400  
WIN  
022224.00  
BRIDGE NO. 3225  
BRIDGE PLANS

|                  |              |             |       |
|------------------|--------------|-------------|-------|
| DESIGN-DETAILED  | T. Pailin    | DATE        | 07/20 |
| CHECKED-REVIEWED | E. Brunsolle | DATE        | 07/20 |
| DESIGN-DETAILED  | B. Grenier   | SIGNATURE   |       |
| DESIGN-DETAILED  |              | P.E. NUMBER |       |
| REVISIONS 1      |              | DATE        |       |
| REVISIONS 2      |              |             |       |
| REVISIONS 3      |              |             |       |
| REVISIONS 4      |              |             |       |
| FIELD CHANGES    |              |             |       |

|                  |              |
|------------------|--------------|
| PROJ. MANAGER    | D. Eaton     |
| DESIGN-DETAILED  | T. Pailin    |
| CHECKED-REVIEWED | E. Brunsolle |
| DESIGN-DETAILED  | B. Grenier   |
| DESIGN-DETAILED  |              |
| REVISIONS 1      |              |
| REVISIONS 2      |              |
| REVISIONS 3      |              |
| REVISIONS 4      |              |
| FIELD CHANGES    |              |

TAYLOR BROOK BRIDGE  
TAYLOR BROOK  
ANDROSCOGGIN COUNTY  
AUBURN  
ABUTMENT NO. 2

SHEET NUMBER  
17  
OF 26

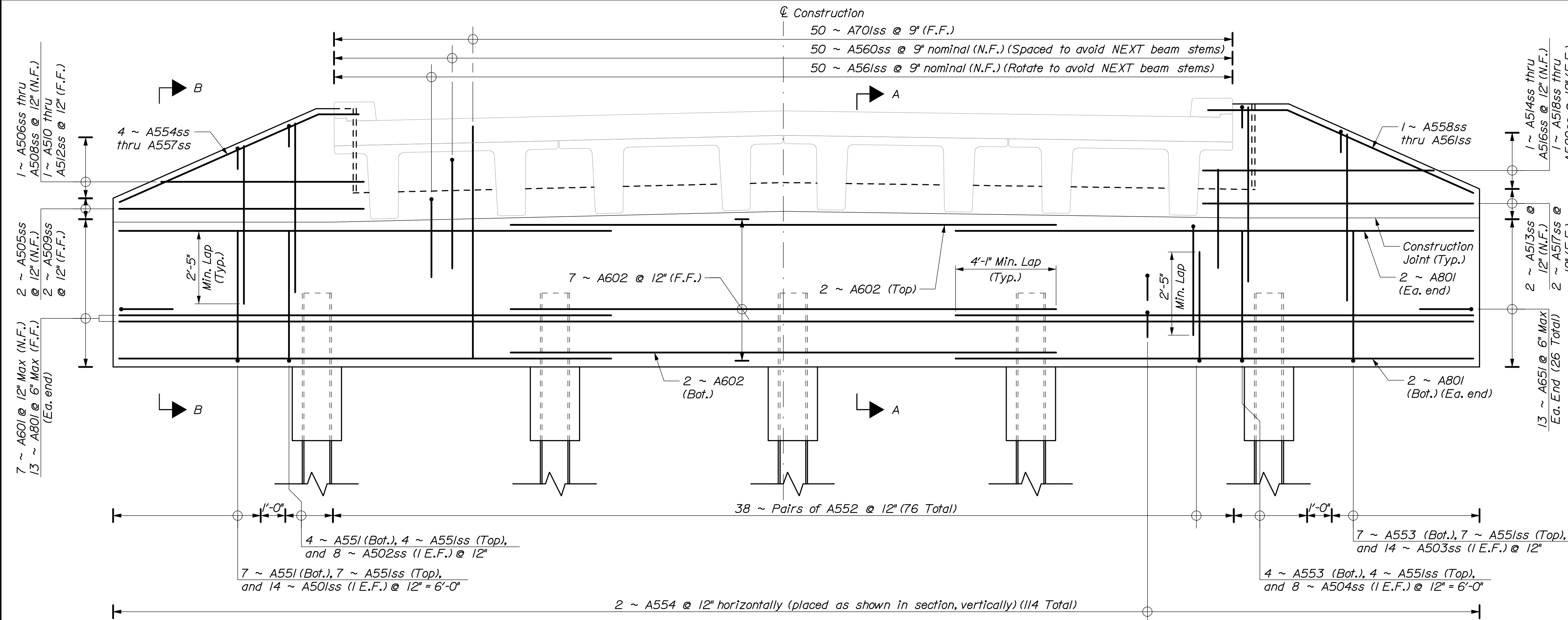


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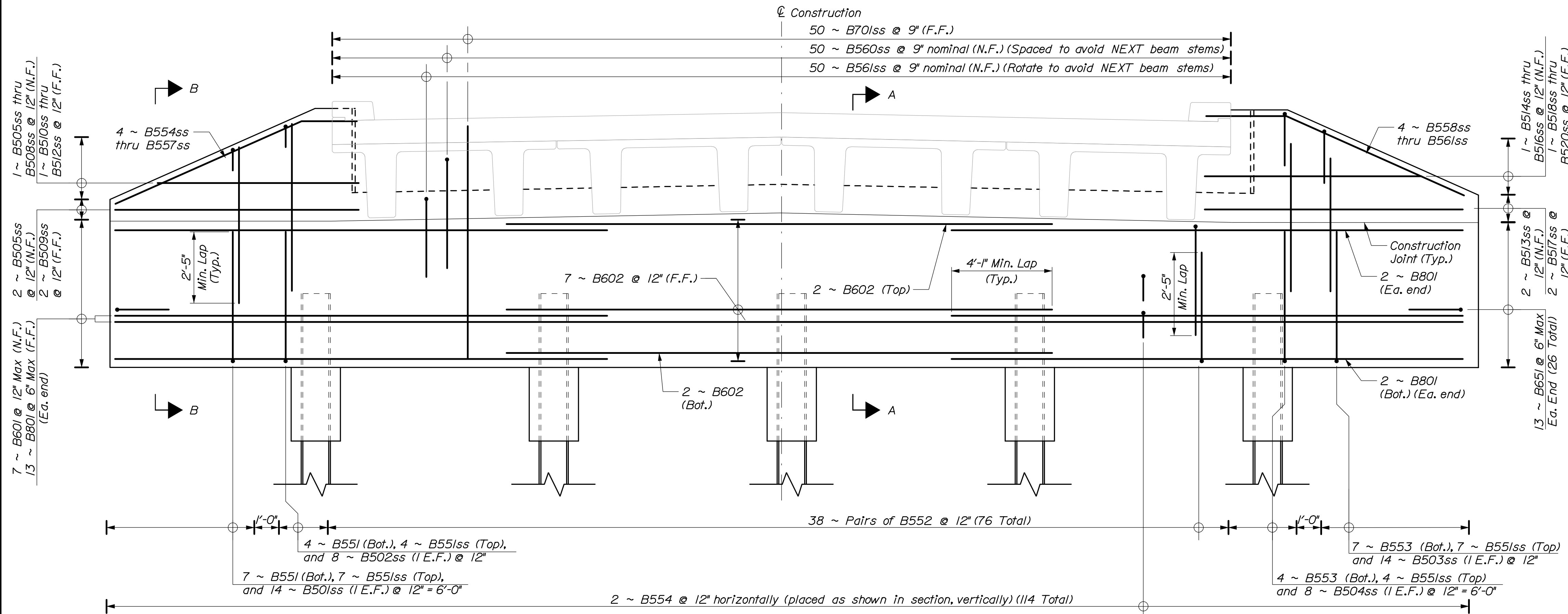
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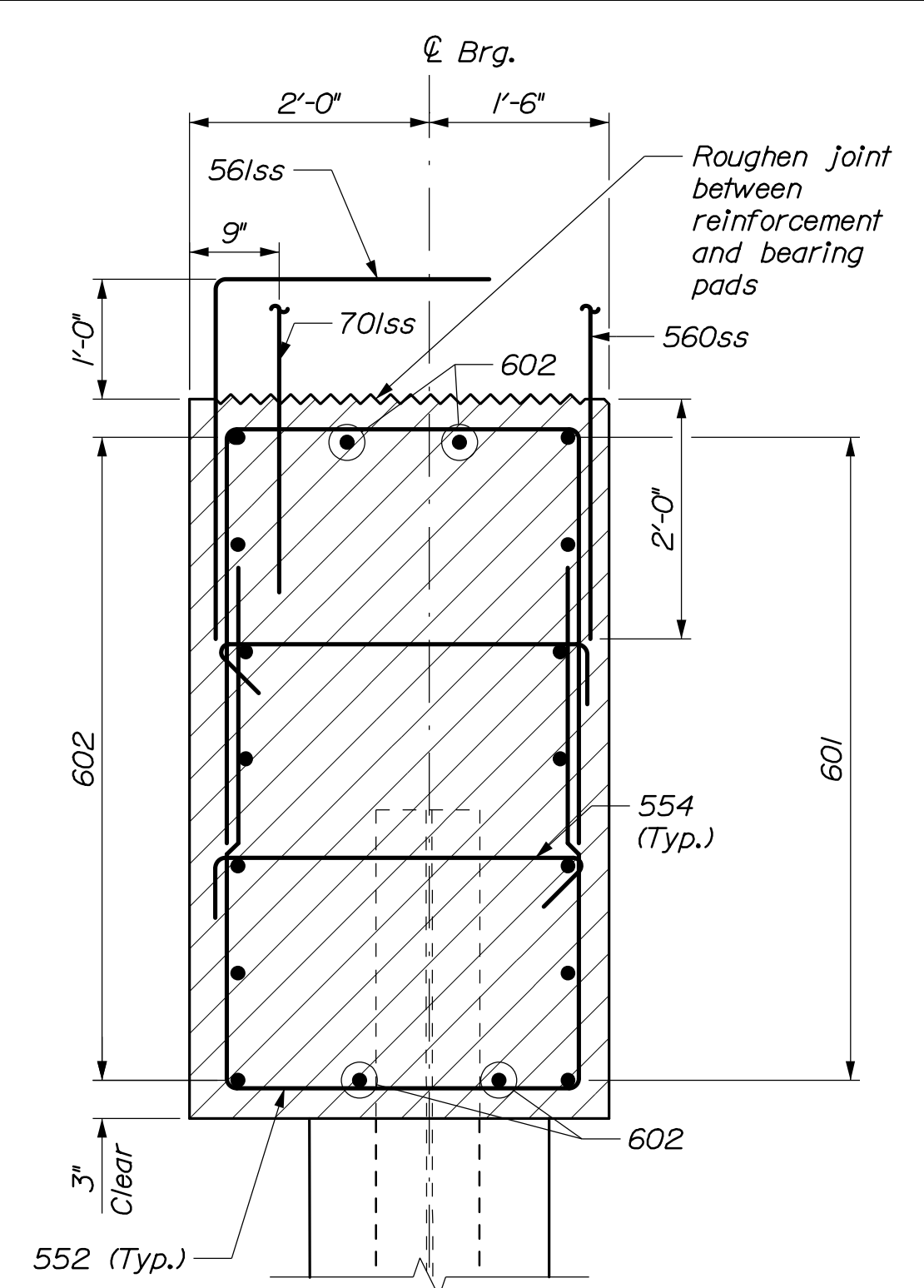
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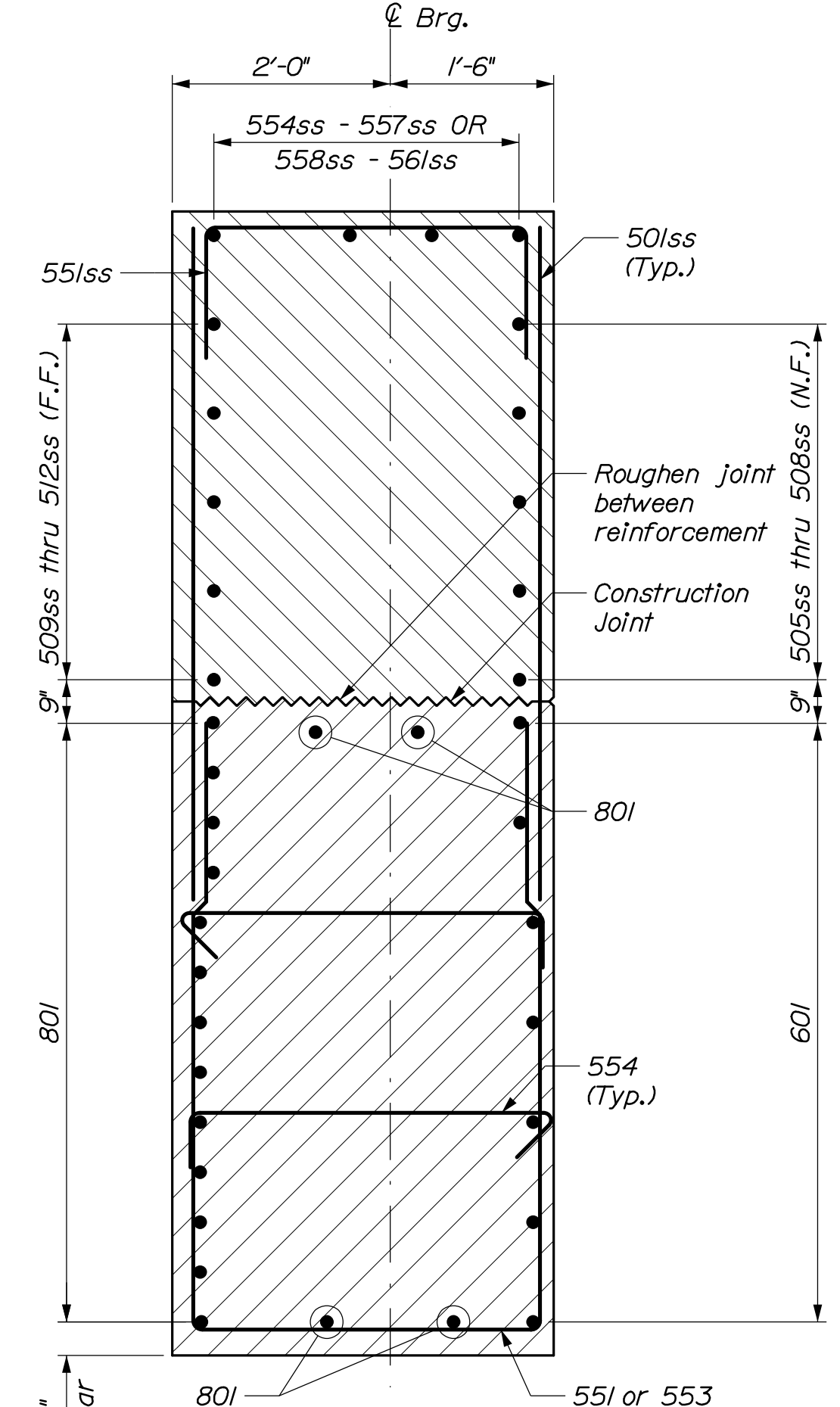
**ABUTMENT NO. 1**  
 (See Sheet 24 for additional Bars within the End Diaphragm)



**ABUTMENT NO. 2**  
 (See Sheet 24 for additional Bars within the End Diaphragm)



**SECTION A-A  
 ABUTMENT SECTION**  
 ("A" & "B" prefixes omitted from bar marks)



**SECTION B-B  
 WINGWALL SECTION**  
 ("A" & "B" prefixes omitted from bar marks)

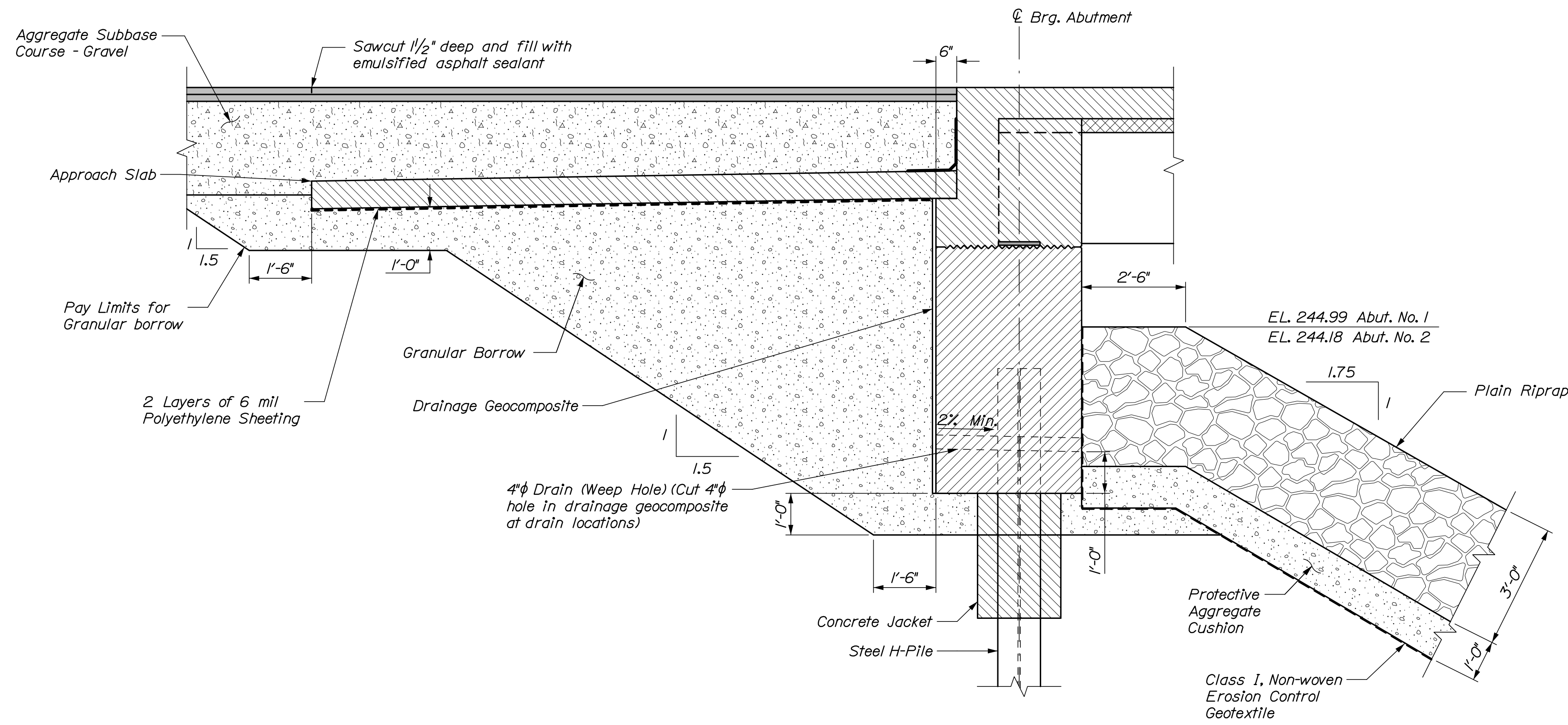
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|--|--------------------------------|------------------------|-----------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION                       |                                | 2222400                |                 |
| TAYLOR BROOK BRIDGE<br>TAYLOR BROOK<br>ANDROSCOGGIN COUNTY<br>AUBURN |                                | ABUTMENT REINFORCING   |                 |
| PROJ. MANAGER<br>D. Eaton  | BY<br>E. Brunsell<br>J. O'Neil | DATE<br>07/20<br>07/20 | BRIDGE NO. 3225 |
| DESIGN DETAILED  | CHECKED/REVIEWED               | DESIGNS DETAILED       | REVISIONS       |
| DESIGNS DETAILED   | DESIGNS DETAILED               | DESIGNS DETAILED       | REVISIONS 1     |
|  |                                |                        | REVISIONS 2     |
|  |                                |                        | REVISIONS 3     |
|  |                                |                        | REVISIONS 4     |
|  |                                |                        | FIELD CHANGES   |
| SHEET NUMBER   |                                | 18                     |                 |
| OF 26  |                                | HNTB                   |                 |

Date: 8/13/2020

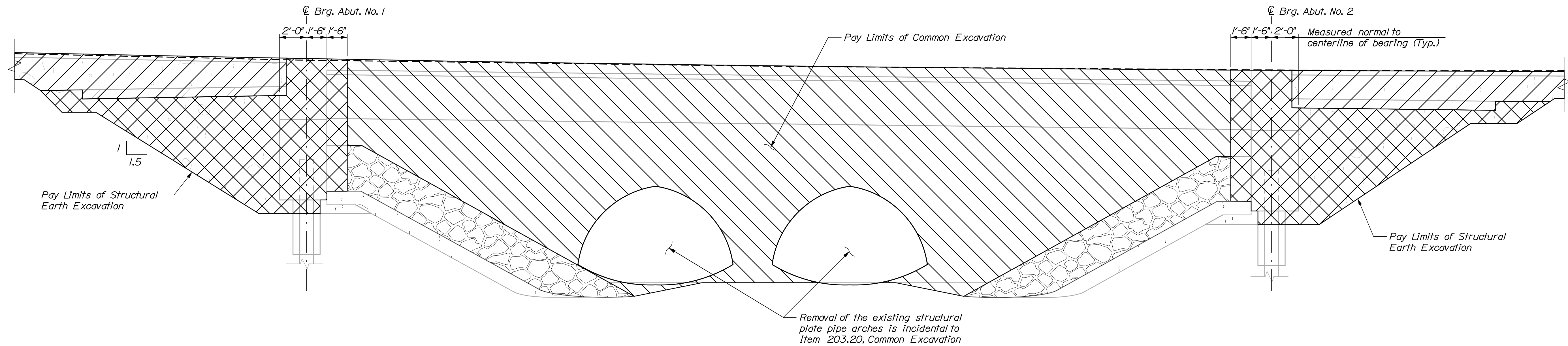
Username:

Division:

Filename: 019\_Abument Details.dgn



ABUTMENT BACKFILL DETAIL



BRIDGE REMOVAL DETAIL

NOTES:

1. Transverse saw cuts in the pavement at the ends of approach slabs shall be sealed with emulsified asphalt sealing compound conforming to Specification 702.12. The sawcut and emulsified asphalt sealing shall not be paid for directly, but considered incidental to related contract items.
2. Install two layers of 6 mil polyethylene sheeting under approach slabs. Payment will be considered incidental to Item No. 502.31, Structural Concrete Approach Slab.

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2222400  
 WIN  
 022224.00  
 BRIDGE NO. 3225  
 BRIDGE PLANS

| PROJ. MANAGER    | D. Eaton   | BY            | DATE  |
|------------------|------------|---------------|-------|
| DESIGN-DETAILED  | T. Pailin  | E. Beausoleil | 07/20 |
| CHECKED-REVIEWED | B. Grenier | J. O'Neil     | 07/20 |
| DESIGNS-DETAILED |            |               |       |
| REVISIONS 1      |            |               |       |
| REVISIONS 2      |            |               |       |
| REVISIONS 3      |            |               |       |
| REVISIONS 4      |            |               |       |
| FIELD CHANGES    |            |               |       |

TAYLOR BROOK BRIDGE  
 TAYLOR BROOK  
 ANDROSCOGGIN COUNTY  
 AUBURN  
 ABUTMENT DETAILS

SHEET NUMBER

19

OF 26

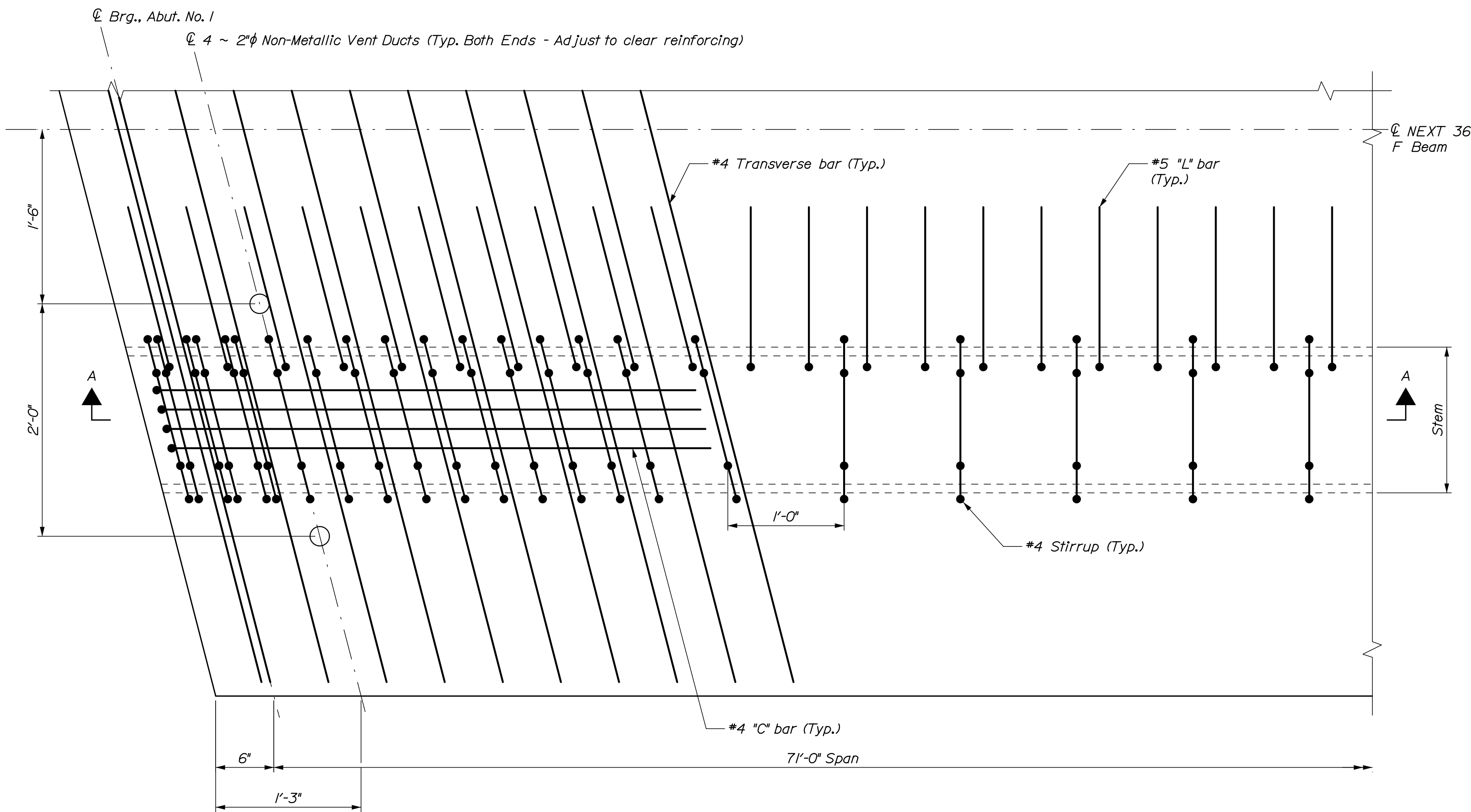


Date: 8/3/2020

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Division:

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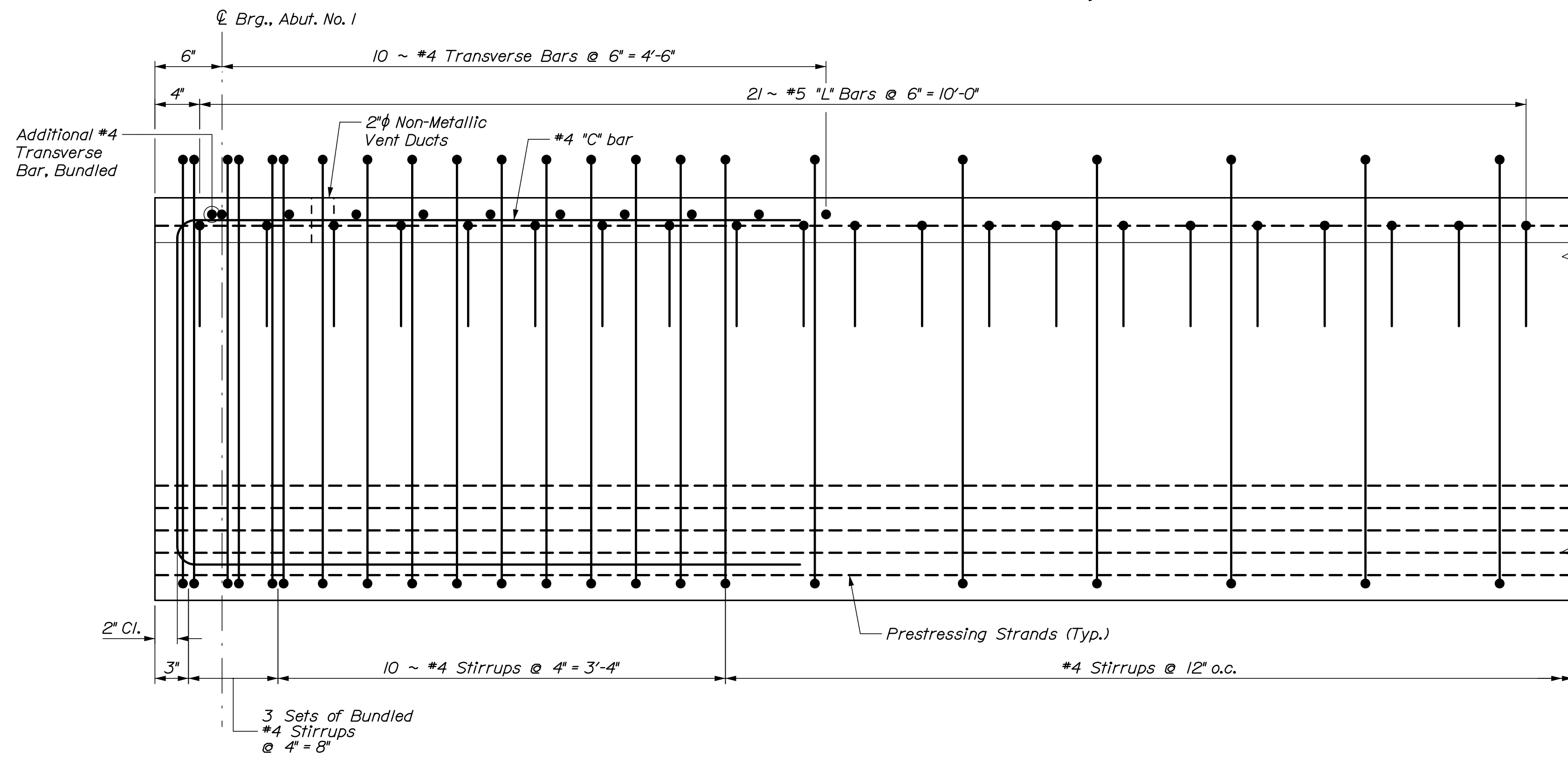


**NEXT 36 F BEAM PLAN**  
(Strands and WWF not shown for clarity)

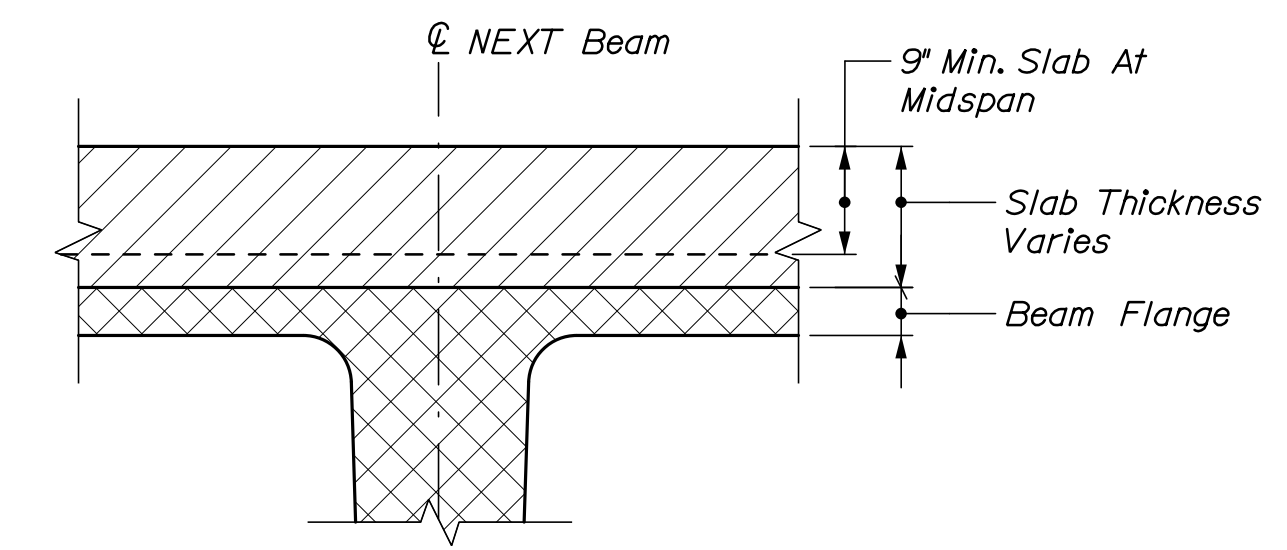
**PRECAST NEXT BEAM NOTES**

- NEXT F Beams are a non-proprietary shape developed by PCI Northeast (PCINE). Standardized section properties and details may be found at <http://www.pcine.org>.
- The estimated camber at release is 1.80 inches; the estimated camber at erection is 3.18 inches; and the estimated final camber at completion of the project is 2.36 inches.
- Prestressing strands shall be 0.6 inch diameter. The tensioning force is 44 kips per prestressing strand, including the top strands.
- Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
- The drilling of holes in the prestressed beams and the use of power-actuated tools on the beams will not be permitted.
- A mat of mild reinforcing steel, #4 bars @ 12 inches in both directions, may be substituted for the welded wire fabric.
- Girder reinforcement detailed in plan and elevation is typical about the midspan and centerline of each girder.
- Concrete retarding admixture shall be applied to the form surfaces of the NEXT beam stems that will come in contact with the cast-in-place concrete end diaphragms. All such surfaces shall be power washed with water prior to installation to provide a nominal 1/8-inch roughened surface with exposed aggregate. Alternate methods of achieving an equivalent roughened surface may be proposed. Payment for achieving the surface finish will be considered incidental to related Contract Items.
- Neoprene pads shall be either polychloroprene or natural polyisoprene of 50±5 Shore A durometer hardness, and shall conform to the requirements of Section 18.2 of the LRFD Bridge Construction Specifications, Third Edition. Neoprene pads will not be paid for directly but will be considered incidental to related Contract Items.
- A maximum of 50% of the strands in the bottom 5 rows may be debonded 6 inches from the end of the beam to reduce the potential of end cracking at release. All 4 top row strands shall be fully bonded.

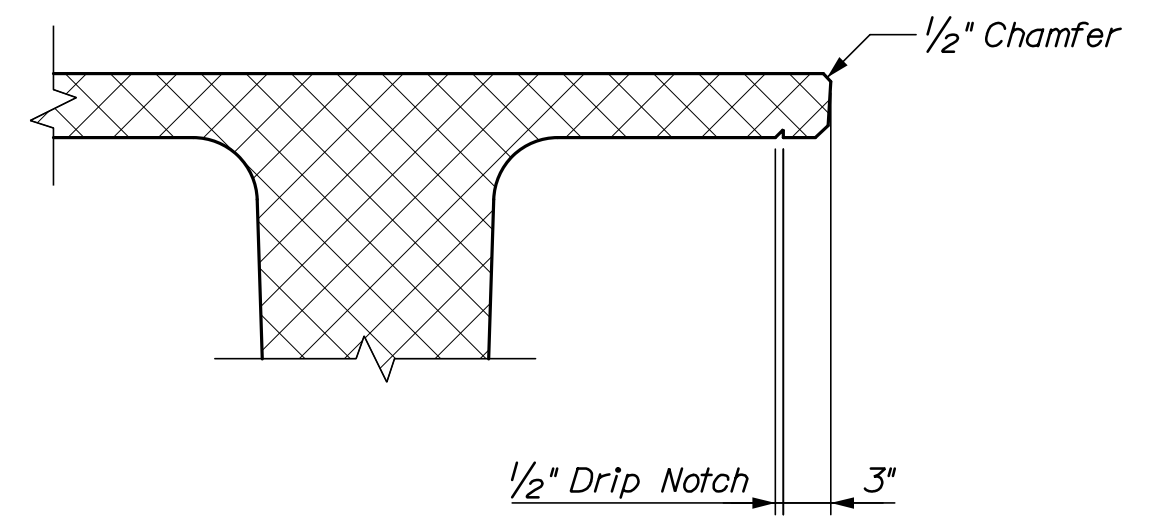
| ℄ Brg. Abut. 1 | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | ℄ Brg. Abut. 2 |
|----------------|------|------|------|------|------|------|------|------|------|----------------|
| 0.00           | 0.25 | 0.48 | 0.67 | 0.79 | 0.83 | 0.79 | 0.67 | 0.48 | 0.25 | 0.00           |



**SECTION A-A**  
(WWF not shown for clarity)



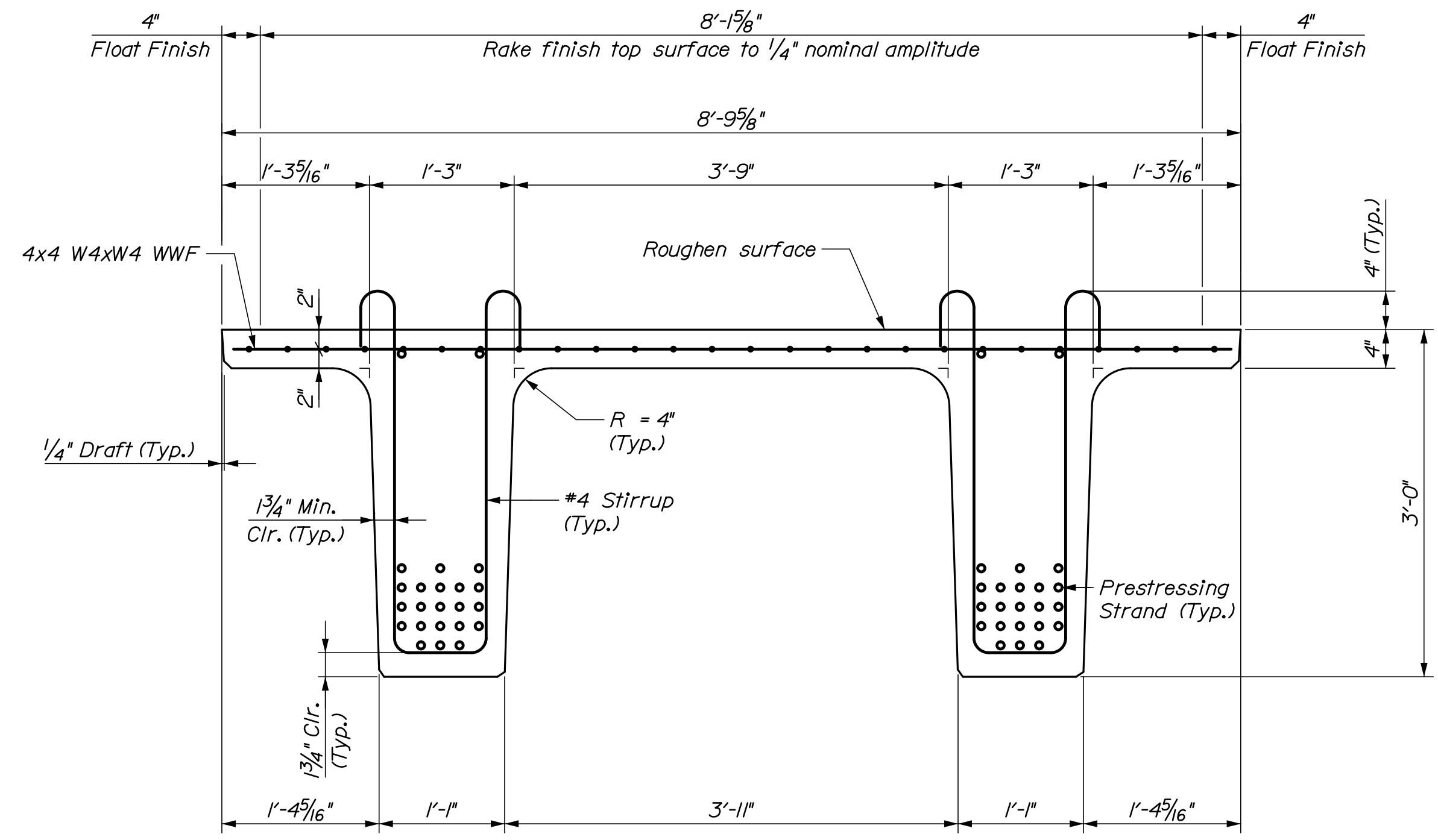
**DECK THICKNESS DETAIL**  
Not to Scale



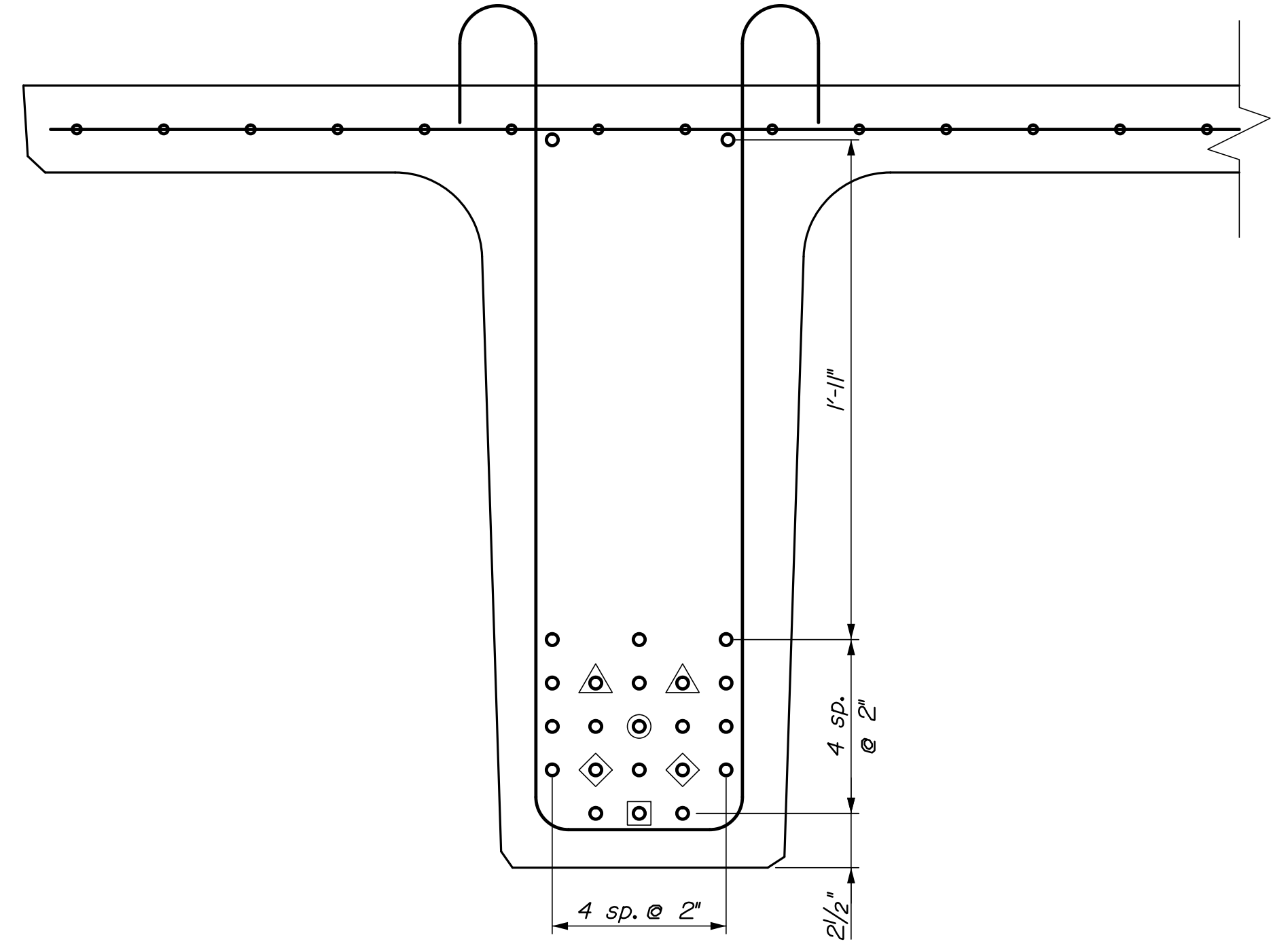
**FASCIA OVERHANG DETAIL**  
Not to Scale

|                     |  |                              |  |                     |  |                  |  |              |  |
|---------------------|--|------------------------------|--|---------------------|--|------------------|--|--------------|--|
| STATE OF MAINE      |  | DEPARTMENT OF TRANSPORTATION |  | 2222400             |  | BRIDGE NO. 3225  |  | BRIDGE PLANS |  |
| TAYLOR BROOK BRIDGE |  | TAYLOR BROOK                 |  | ANDROSCOGGIN COUNTY |  | GIRDER DETAILS I |  | SHEET NUMBER |  |
| AUBURN              |  |                              |  |                     |  |                  |  | 20           |  |
|                     |  |                              |  |                     |  |                  |  | OF 26        |  |



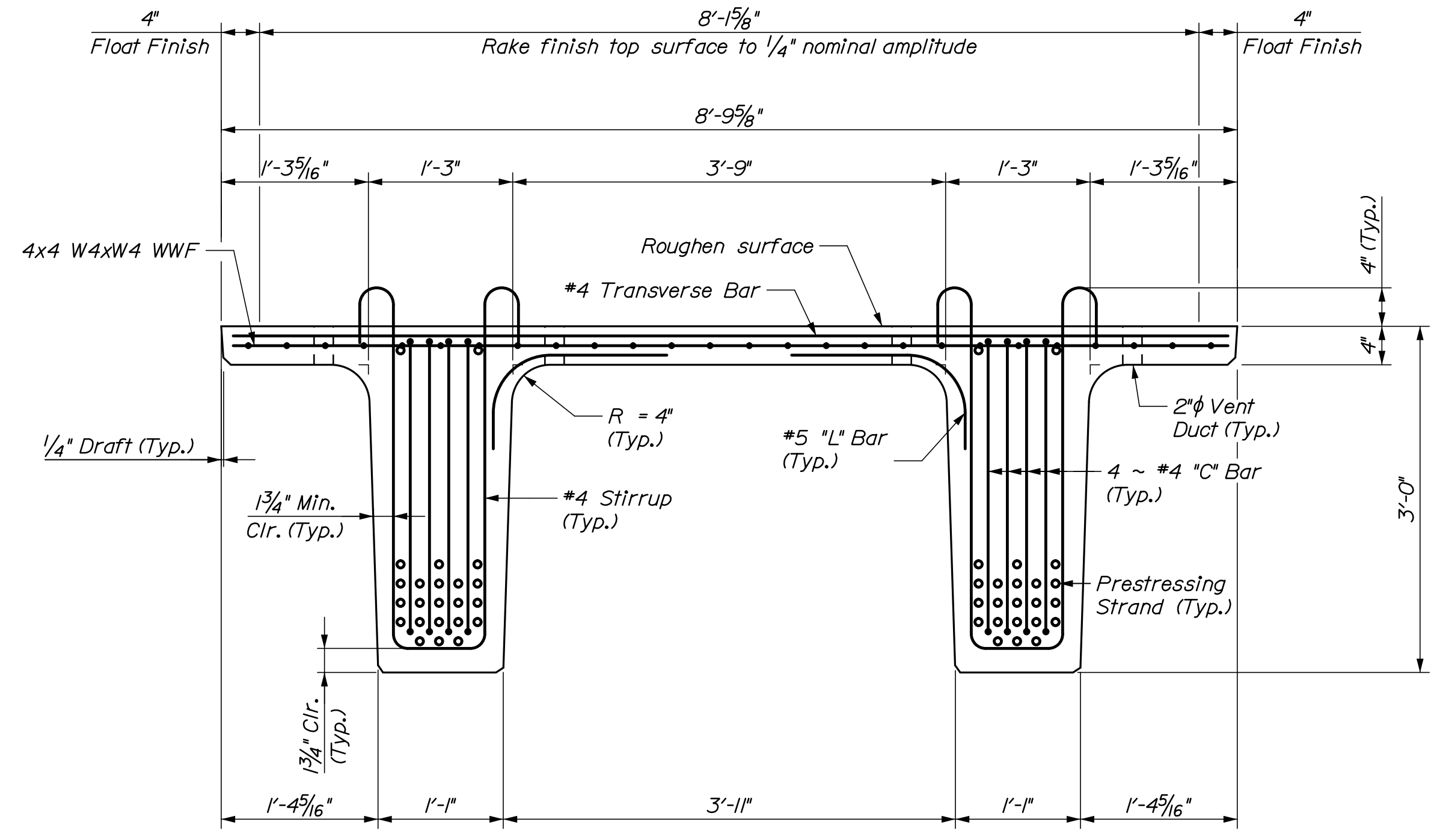


NEXT 36 F BEAM TYPICAL SECTION - AT MIDSPAN



NEXT 36 F BEAM STRAND PATTERN

- ◻ Strands debonded 20ft
- ◊ Strands debonded 15ft
- ⊙ Strands debonded 10ft
- △ Strands debonded 8ft



NEXT 36 F BEAM TYPICAL SECTION - AT ENDS

|  |           |   |                            |                   |                |
|--|-----------|---|----------------------------|-------------------|----------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION |           | 2222400   |                            | BRIDGE NO. 3225   | BRIDGE PLANS   |
| AUBURN   |           | TAYLOR BROOK<br>TAYLOR BROOK<br>ANDROSCOGGIN COUNTY |                            | GIRDER DETAILS II |                |
| SHEET NUMBER                                   |           | 21  |                            | OF 26             |                |
| PROJ. MANAGER                                  | D. Eaton  | BY  | E. Beausoleil<br>J. O'Neil | DATE              | 07/20<br>07/20 |
| DESIGN-DETAILED                                | H. Walton | CHECKED-REVIEWED                                    | B. Grenier                 | SIGNATURE         |                |
| DESIGN-DETAILED                                |           | DESIGN-DETAILED                                     |                            | P.E. NUMBER       |                |
| REVISIONS 1                                    |           | REVISIONS 1   |                            | DATE              |                |
| REVISIONS 2                                    |           | REVISIONS 2   |                            |                   |                |
| REVISIONS 3                                    |           | REVISIONS 3   |                            |                   |                |
| REVISIONS 4                                    |           | REVISIONS 4   |                            |                   |                |
| FIELD CHANGES                                  |           |   |                            |                   |                |

Date: 8/3/2020

Username:

Division:

Filename: 021\_Girder Details II.dgn

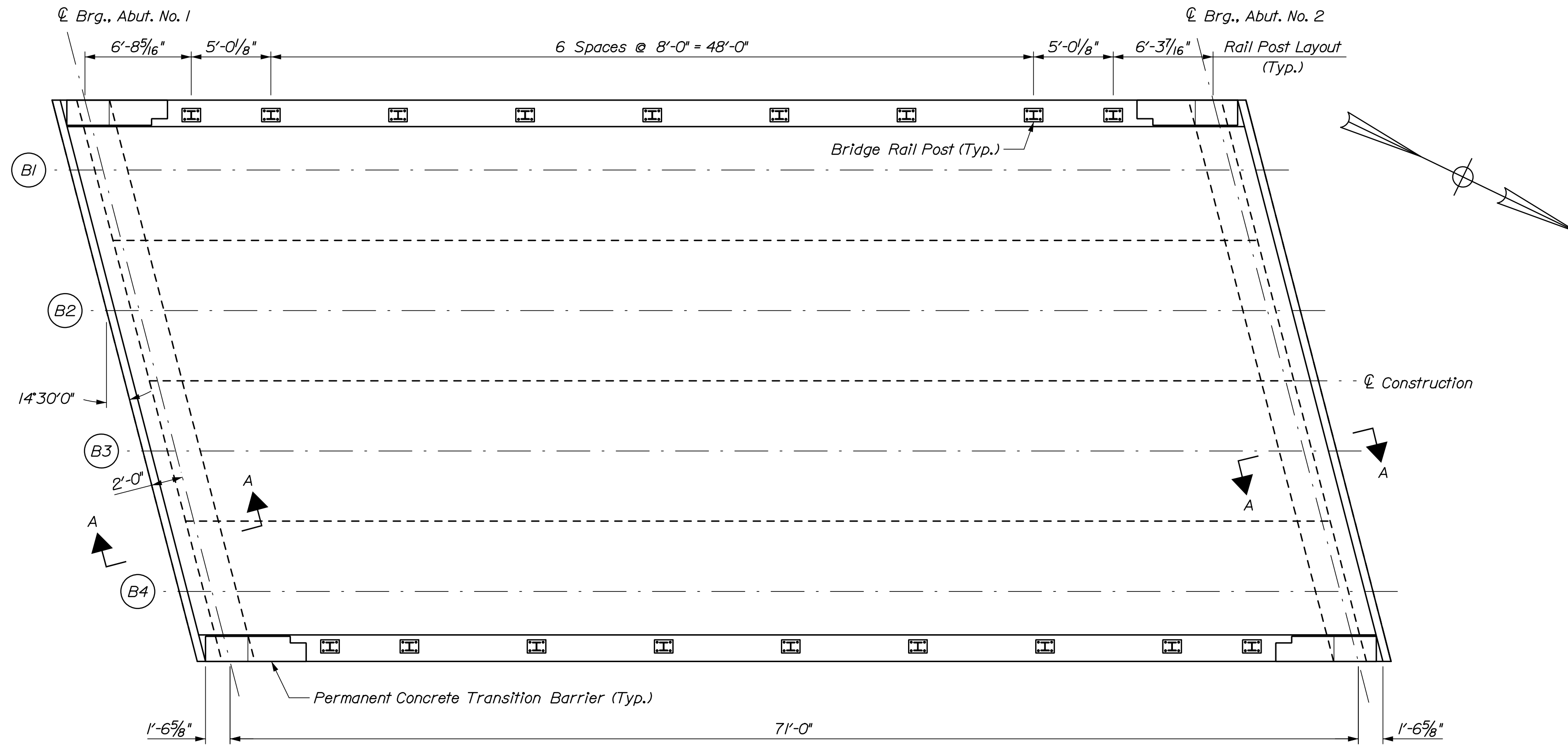


Date: 8/13/2020

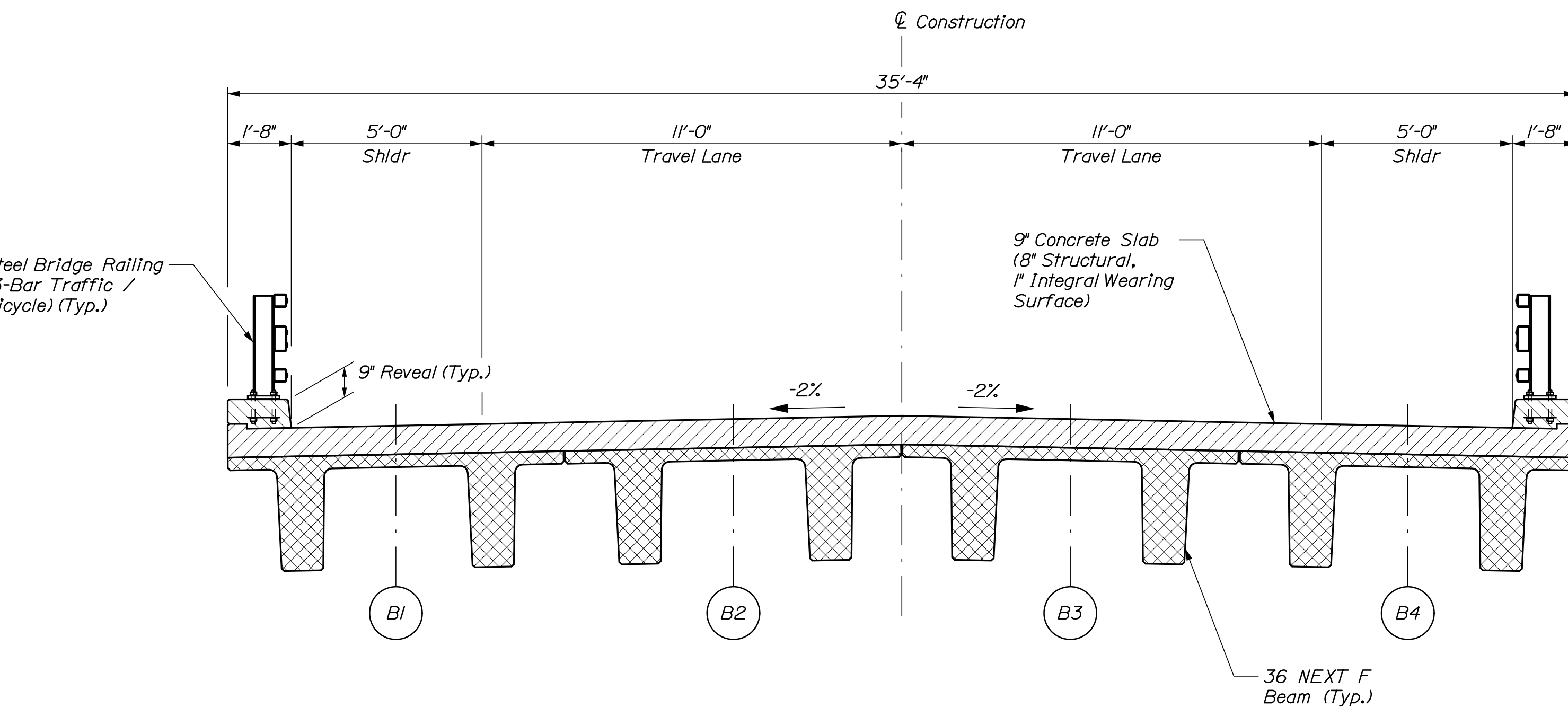
Username:

Division:

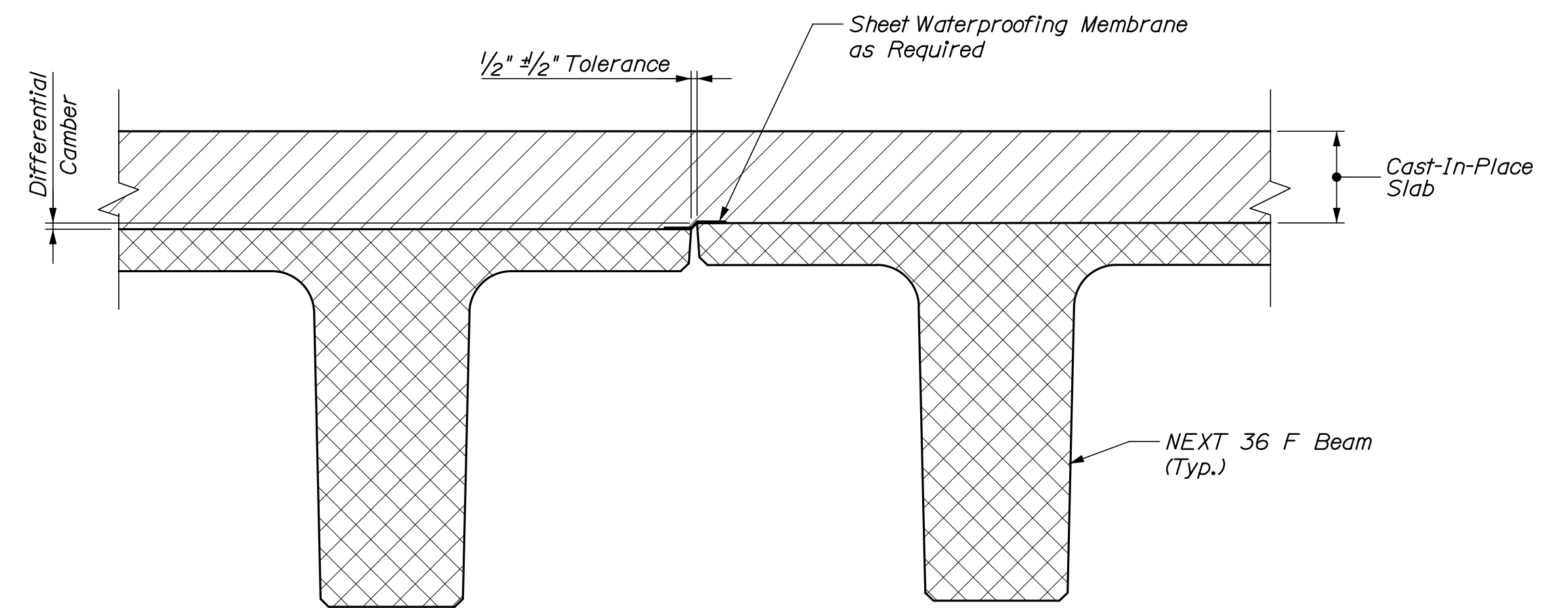
Filename: 022\_Superstructure Plan.dgn



SUPERSTRUCTURE PLAN



TRANSVERSE SECTION



NEXT BEAM GAP FORM DETAIL

SUPERSTRUCTURE NOTES

1. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
2. Reinforcing bars shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. The superstructure slab and upper portions of the abutment shall be placed in one continuous operation and shall be kept plastic until the entire placement has been made.
4. Payment for concrete within the abutment and below the bottom of the cast-in-place deck will be made under Item No. 502.219 Structural Concrete, Abutments and Retaining Walls.
5. The Contractor shall install Permanent Concrete Transition Barrier vertical closed stirrups as shown in Standard Details Section 526, prior to the placement of curb or sidewalk concrete.
6. Payment for Sheet Waterproofing Membrane over joints between adjacent NEXT Beams will not be made directly, but will be considered incidental to related Contract Items. Alternate methods of sealing the gap between the flanges may be submitted to the Resident for approval.
7. Payment for Sheet Waterproofing Membrane and mortared chamfer at the joint between the Approach Slab and the End Diaphragm will not be made directly, but will be considered incidental to related Contract Items. See Sheet 24, Section A-A for details.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2222400  
WIN  
022224.00  
BRIDGE NO. 3225  
BRIDGE PLANS

| PROJ. MANAGER    | D. Eaton      | DATE  | DATE |
|------------------|---------------|-------|------|
| DESIGN-DETAILED  | H. Walton     | 07/20 |      |
| CHECKED-REVIEWED | E. Beausoleil | 07/20 |      |
| DESIGN-DETAILED  | J. O'Neil     |       |      |
| DESIGN-DETAILED  |               |       |      |
| REVISIONS 1      |               |       |      |
| REVISIONS 2      |               |       |      |
| REVISIONS 3      |               |       |      |
| REVISIONS 4      |               |       |      |
| FIELD CHANGES    |               |       |      |

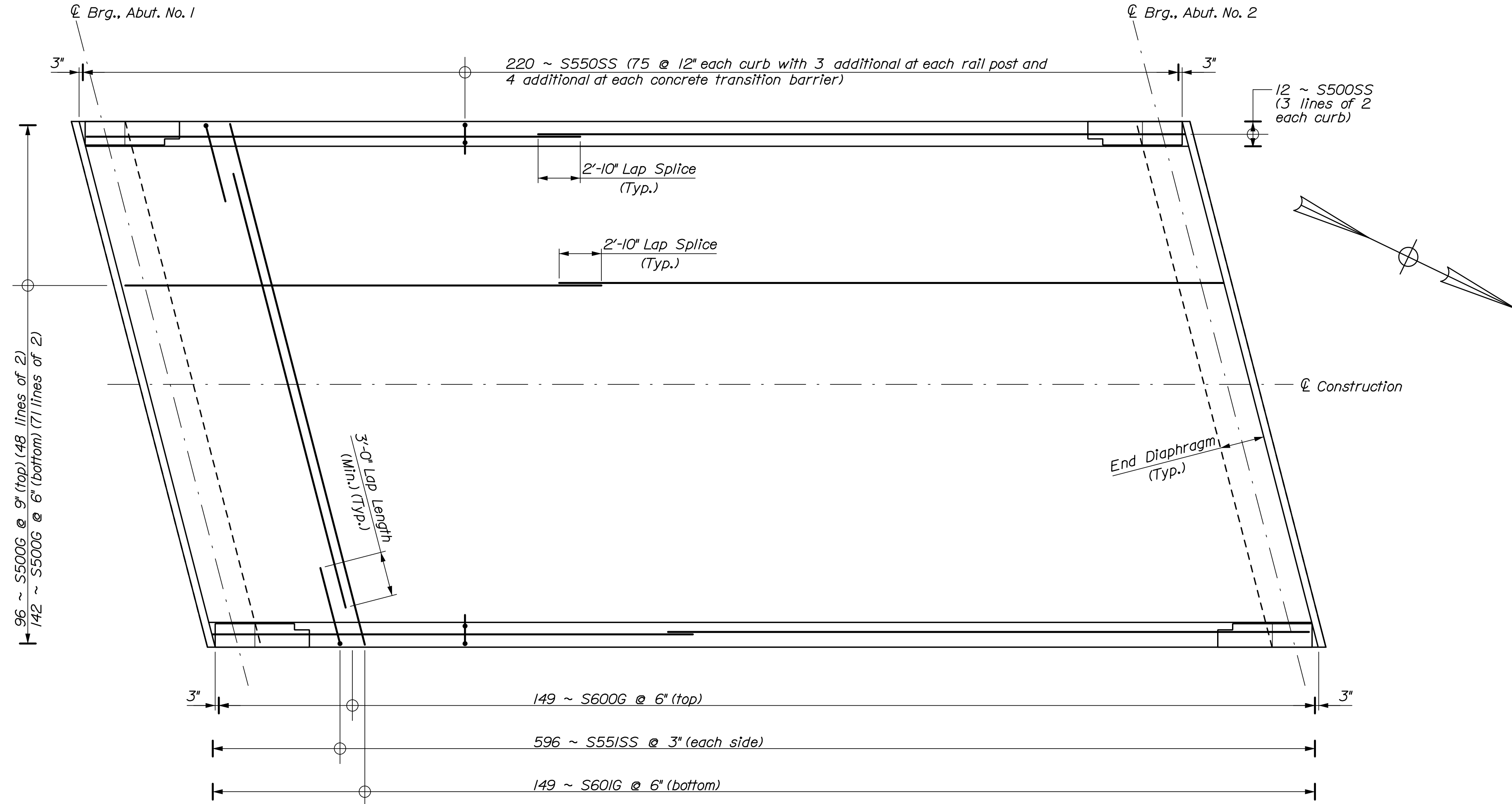
TAYLOR BROOK BRIDGE  
TAYLOR BROOK  
ANDROSCOGGIN COUNTY  
AUBURN  
SUPERSTRUCTURE PLAN

SHEET NUMBER

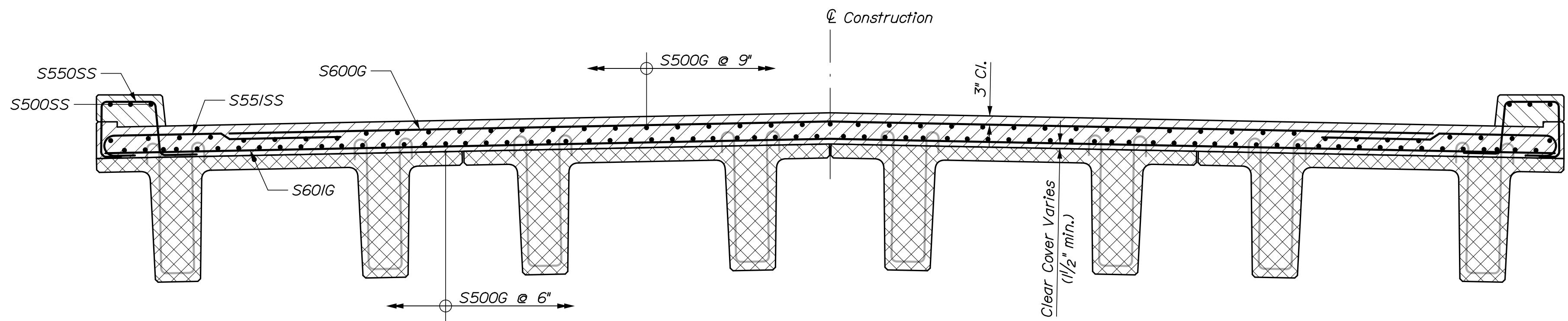
22

OF 26





SUPERSTRUCTURE REINFORCING PLAN



TRANSVERSE REINFORCING SECTION

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2222400  
WIN  
022224.00  
BRIDGE NO. 3225  
BRIDGE PLANS

|                   |            |               |       |
|-------------------|------------|---------------|-------|
| PROJ. MANAGER     | D. Eaton   | BY            | DATE  |
| DESIGN-DETAILED   | H. Walton  | E. Beausoleil | 07/20 |
| CHECKED-REVIEWED  | B. Grenier | J. O'Neil     | 07/20 |
| DESIGN-DETAILED 2 |            |               |       |
| DESIGN-DETAILED 3 |            |               |       |
| REVISIONS 1       |            |               |       |
| REVISIONS 2       |            |               |       |
| REVISIONS 3       |            |               |       |
| REVISIONS 4       |            |               |       |
| FIELD CHANGES     |            |               |       |

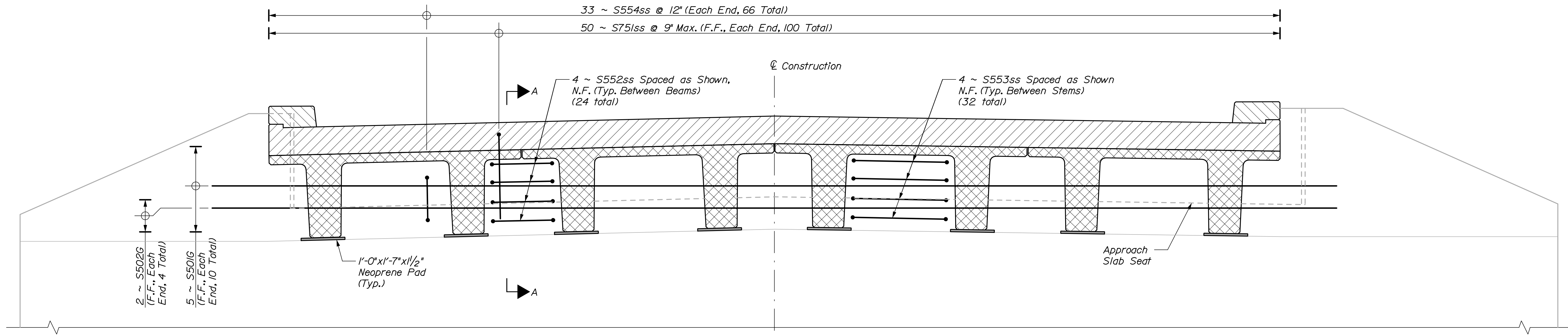
|                            |       |
|----------------------------|-------|
| TAYLOR BROOK BRIDGE        |       |
| TAYLOR BROOK               |       |
| ANDROSCOGGIN COUNTY        |       |
| AUBURN                     |       |
| SUPERSTRUCTURE REINFORCING |       |
| SHEET NUMBER               | 23    |
|                            | OF 26 |



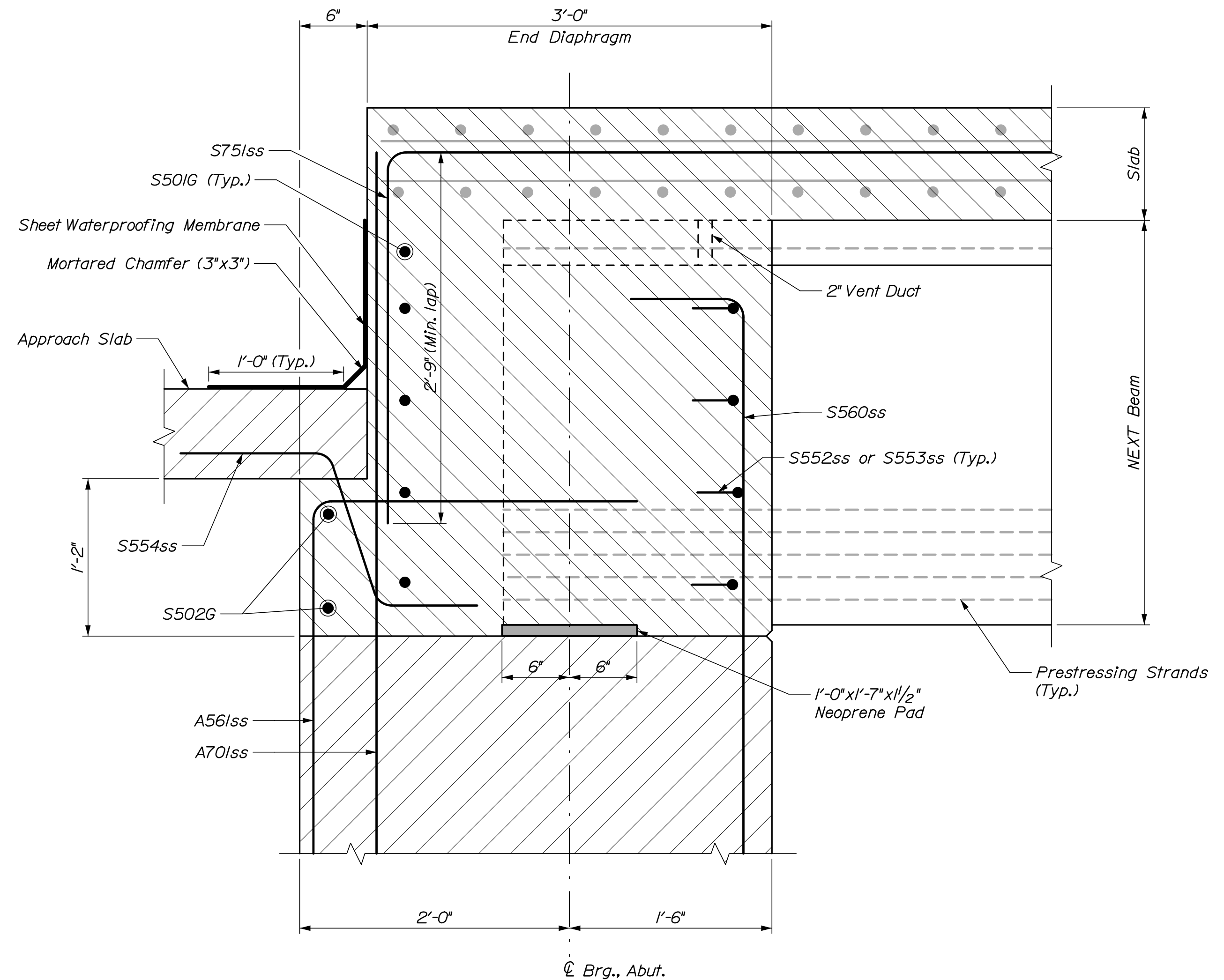
Date: 8/3/2020

Username:

Filename: 024\_End Diaphragm Reinforcing.dgn Division:



**END DIAPHRAGM REINFORCEMENT ELEVATION**  
 (Abutment No. 1 Shown Looking Downstation; Abutment No. 2 Opposite Hand)  
 (Wingwall Bars and Abutment Bars Extending into Diaphragm Not Shown For Clarity)



**SECTION A-A**  
 ("A" and "B" prefixes omitted from bar marks)

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2222400  
 WIN 022224.00  
 BRIDGE NO. 3225 BRIDGE PLANS

| PROJ. MANAGER    | BY          | DATE  | SIGNATURE |
|------------------|-------------|-------|-----------|
| D. Eaton         | E. Brunsell | 07/20 |           |
|                  | J. O'Neil   | 07/20 |           |
| DESIGN-DETAILED  | H. Walton   |       |           |
| CHECKED-REVIEWED | B. Grenier  |       |           |
| DESIGN-DETAILED  |             |       |           |
| REVISIONS 1      |             |       |           |
| REVISIONS 2      |             |       |           |
| REVISIONS 3      |             |       |           |
| REVISIONS 4      |             |       |           |
| FIELD CHANGES    |             |       |           |

| PROJ. MANAGER    | BY          | DATE  | SIGNATURE | P.E. NUMBER | DATE |
|------------------|-------------|-------|-----------|-------------|------|
| D. Eaton         | E. Brunsell | 07/20 |           |             |      |
|                  | J. O'Neil   | 07/20 |           |             |      |
| DESIGN-DETAILED  | H. Walton   |       |           |             |      |
| CHECKED-REVIEWED | B. Grenier  |       |           |             |      |
| DESIGN-DETAILED  |             |       |           |             |      |
| REVISIONS 1      |             |       |           |             |      |
| REVISIONS 2      |             |       |           |             |      |
| REVISIONS 3      |             |       |           |             |      |
| REVISIONS 4      |             |       |           |             |      |
| FIELD CHANGES    |             |       |           |             |      |

TAYLOR BROOK BRIDGE  
 TAYLOR BROOK  
 ANDROSCOGGIN COUNTY  
 AUBURN  
 END DIAPHRAGM  
 REINFORCING

SHEET NUMBER

24

OF 26



Date: 8/13/2020

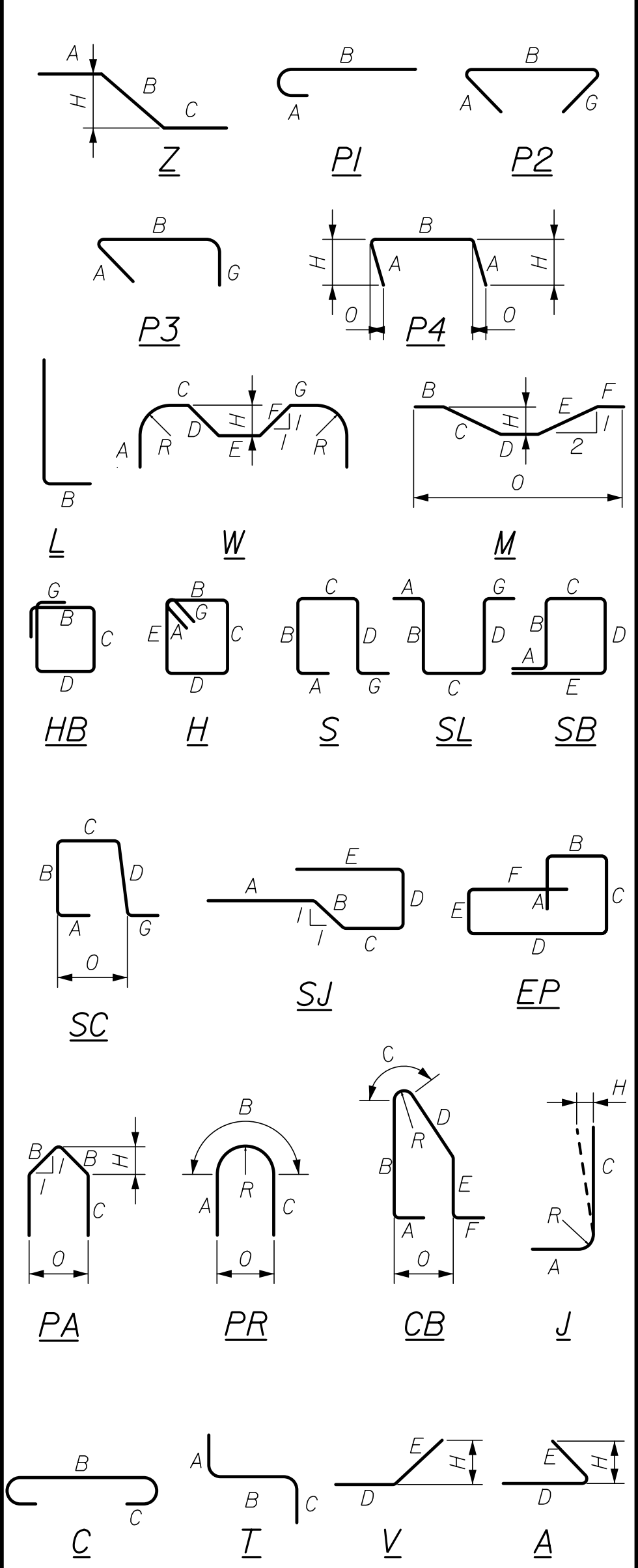
Username:

Division:

Filename: 025\_Reinforcing Schedule.dgn

| STRAIGHT BARS   |      |         |   | BENT BARS                              |      |           |      |           |           |        |           |   |   |           |           | LOCATION |   |  |  |  |
|---|------|---------|---|--|------|-----------|------|-----------|-----------|--------|-----------|---|---|-----------|-----------|----------|---|--|--|--|
| MARK  | QTY. | LENGTH  | LOCATION  | MARK                                   | QTY. | LENGTH    | TYPE | A         | B         | C      | D         | E | F | G         | H         | O        | R | LOCATION   |  |  |
| Abutment No. 1 (Stainless Steel Rebar)                |      |         |   | Abutment No. 1 (Stainless Steel Rebar) |      |           |      |           |           |        |           |   |   |           |           |          |   | Wingwalls, Top Stirrup                                   |  |  |
| A501ss  | 14   | 6'-5"   | Right Wingwall, Vertical                        | A551ss                                 | 22   | 4'-10"    | S    | 0'-0"     | 0'-10"    | 3'-2"  | 0'-10"    |   |   | 0'-0"     |           |          |   | Right Wingwall Tops, Sloped                              |  |  |
| A502ss  | 8    | 7'-1"   | Right Wingwall, Vertical                        | A552ss                                 | 1    | 10'-3"    | V    |           |           |        |           |   |   | 1'-3"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| A503ss  | 14   | 6'-9"   | Left Wingwall, Vertical                         | A553ss                                 | 1    | 10'-6"    | V    |           |           |        |           |   |   | 1'-6"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| A504ss  | 8    | 7'-1"   | Left Wingwall, Vertical                         | A554ss                                 | 1    | 10'-9"    | V    |           |           |        |           |   |   | 1'-9"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| A505ss  | 2    | 9'-11"  | Right Wingwall, Horizontal Near Face            | A555ss                                 | 1    | 10'-0"    | V    |           |           |        |           |   |   | 1'-0"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| A506ss  | 1    | 8'-7"   | Right Wingwall, Horizontal Near Face            | A556ss                                 | 1    | 11'-2"    | V    |           |           |        |           |   |   | 2'-8"     | 8'-6"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A507ss  | 1    | 6'-4"   | Right Wingwall, Horizontal Near Face            | A557ss                                 | 1    | 10'-10"   | V    |           |           |        |           |   |   | 2'-4"     | 8'-6"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A508ss  | 1    | 4'-1"   | Right Wingwall, Horizontal Near Face            | A558ss                                 | 1    | 10'-7"    | V    |           |           |        |           |   |   | 2'-1"     | 8'-6"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A509ss  | 2    | 9'-5"   | Right Wingwall, Horizontal Far Face             | A559ss                                 | 1    | 9'-4"     | V    |           |           |        |           |   |   | 0'-10"    | 8'-6"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A510ss  | 1    | 8'-2"   | Right Wingwall, Horizontal Far Face             | A560ss                                 | 50   | 5'-5"     | L    | 4'-7"     | 0'-10"    |        |           |   |   |           |           |          |   | Bridge Seat, Vertical, Near Face                         |  |  |
| A511ss  | 1    | 5'-10"  | Right Wingwall, Horizontal Far Face             | A561ss                                 | 50   | 3'-10"    | L    | 3'-0"     | 0'-10"    |        |           |   |   |           |           |          |   | Bridge Seat, Vertical, Far Face                          |  |  |
| A512ss  | 1    | 3'-7"   | Right Wingwall, Horizontal Far Face             | Abutment No. 1 (Plain Rebar)           |      |           |      |           |           |        |           |   |   |           |           |          |   | Wingwall Bottom, Right                                   |  |  |
| A513ss  | 2    | 10'-10" | Left Wingwall, Horizontal Near Face             | A551                                   | 11   | 14'-0"    | S    | 0'-0"     | 5'-5"     | 3'-2"  | 5'-5"     |   |   | 0'-0"     |           |          |   | Abutment Stirrup   |  |  |
| A514ss  | 1    | 10'-0"  | Left Wingwall, Horizontal Near Face             | A552                                   | 76   | 12'-0"    | S    | 0'-0"     | 4'-5"     | 3'-2"  | 4'-5"     |   |   | 0'-0"     |           |          |   | Wingwall Bottom, Left                                    |  |  |
| A515ss  | 1    | 7'-9"   | Left Wingwall, Horizontal Near Face             | A553                                   | 11   | 14'-4"    | S    | 0'-0"     | 5'-7"     | 3'-2"  | 5'-7"     |   |   | 0'-0"     |           |          |   | Abutment Ties  |  |  |
| A516ss  | 1    | 5'-3"   | Left Wingwall, Horizontal Near Face             | A554                                   | 114  | 4'-1 1/2" | P3   | 0'-5 1/2" | 3'-2"     |        |           |   |   | 0'-6"     |           |          |   |  |  |  |
| A517ss  | 2    | 8'-10"  | Left Wingwall, Horizontal Far Face              | A651                                   | 14   | 5'-2"     | S    | 0'-0"     | 1'-0"     | 3'-2"  | 1'-0"     |   |   | 0'-0"     |           |          |   | Wingwall, Horizontal End Stirrup                         |  |  |
| A518ss  | 1    | 7'-11"  | Left Wingwall, Horizontal Far Face              | Abutment No. 1 (Stainless Steel Rebar) |      |           |      |           |           |        |           |   |   |           |           |          |   | Wingwalls, Top Stirrup                                   |  |  |
| A519ss  | 1    | 5'-8"   | Left Wingwall, Horizontal Far Face              | B551ss                                 | 22   | 4'-10"    | S    | 0'-0"     | 0'-10"    | 3'-2"  | 0'-10"    |   |   | 0'-0"     |           |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A520ss  | 1    | 3'-5"   | Left Wingwall, Horizontal Far Face              | B552ss                                 | 1    | 10'-4"    | V    |           |           |        |           |   |   | 1'-3"     | 9'-1"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A701ss  | 50   | 9'-5"   | Bridge Seat, Vertical, Far Face                 | B553ss                                 | 1    | 10'-7"    | V    |           |           |        |           |   |   | 1'-6"     | 9'-1"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| Abutment No. 1 (Plain Rebar)                          |      |         |   | B554ss                                 | 1    | 10'-10"   | V    |           |           |        |           |   |   | 1'-9"     | 9'-1"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A601  | 7    | 55'-2"  | Horizontal, Near Face                           | B555ss                                 | 1    | 10'-1"    | V    |           |           |        |           |   |   | 1'-0"     | 9'-1"     |          |   | Left Wingwall Tops, Sloped                               |  |  |
| A602  | 11   | 18'-6"  | Horizontal, Far Face                            | B556ss                                 | 1    | 11'-9"    | V    |           |           |        |           |   |   | 2'-9"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| A801  | 34   | 20'-7"  | Horizontal, Far Face                            | B557ss                                 | 1    | 11'-6"    | V    |           |           |        |           |   |   | 2'-6"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| Abutment No. 2 (Stainless Steel Rebar)                |      |         |   | B558ss                                 | 1    | 11'-3"    | V    |           |           |        |           |   |   | 2'-3"     | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| B501ss  | 14   | 6'-4"   | Left Wingwall, Vertical                         | B559ss                                 | 1    | 9'-11"    | V    |           |           |        |           |   |   | 0'-11"    | 9'-0"     |          |   | Right Wingwall Tops, Sloped                              |  |  |
| B502ss  | 8    | 7'-0"   | Left Wingwall, Vertical                         | B560ss                                 | 50   | 5'-5"     | L    | 4'-7"     | 0'-10"    |        |           |   |   | 4'-7"     | 0'-10"    |          |   | Bridge Seat, Vertical, Near Face                         |  |  |
| B503ss  | 14   | 6'-7"   | Right Wingwall, Vertical                        | B561ss                                 | 50   | 3'-10"    | L    | 3'-0"     | 0'-10"    |        |           |   |   | 3'-0"     | 0'-10"    |          |   | Bridge Seat, Vertical, Far Face                          |  |  |
| B504ss  | 8    | 7'-0"   | Right Wingwall, Vertical                        | Abutment No. 1 (Plain Rebar)           |      |           |      |           |           |        |           |   |   |           |           |          |   | Wingwall Bottom, Left                                    |  |  |
| B505ss  | 2    | 10'-0"  | Left Wingwall, Horizontal Near Face             | B551                                   | 11   | 14'-2"    | S    | 0'-0"     | 5'-6"     | 3'-2"  | 5'-6"     |   |   | 0'-0"     |           |          |   | Abutment Stirrup   |  |  |
| B506ss  | 1    | 8'-7"   | Left Wingwall, Horizontal Near Face             | B552                                   | 76   | 12'-0"    | S    | 0'-0"     | 4'-5"     | 3'-2"  | 4'-5"     |   |   | 0'-0"     |           |          |   | Wingwall Bottom, Right                                   |  |  |
| B507ss  | 1    | 6'-4"   | Left Wingwall, Horizontal Near Face             | B553                                   | 11   | 14'-0"    | S    | 0'-0"     | 5'-5"     | 3'-2"  | 5'-5"     |   |   | 0'-0"     |           |          |   | Abutment Ties  |  |  |
| B508ss  | 1    | 4'-1"   | Left Wingwall, Horizontal Near Face             | B554                                   | 114  | 4'-1 1/2" | P3   | 0'-5 1/2" | 3'-2"     |        |           |   |   | 0'-6"     |           |          |   |  |  |  |
| B509ss  | 2    | 9'-5"   | Left Wingwall, Horizontal Far Face              | B651                                   | 14   | 5'-2"     | S    | 0'-0"     | 1'-0"     | 3'-2"  | 1'-0"     |   |   | 0'-0"     |           |          |   | Wingwall, Horizontal End Stirrup                         |  |  |
| B510ss  | 1    | 8'-0"   | Left Wingwall, Horizontal Far Face              | Superstructure (Stainless Steel Rebar) |      |           |      |           |           |        |           |   |   |           |           |          |   | Curb (Bridge) Stirrup                                    |  |  |
| B511ss  | 1    | 5'-9"   | Left Wingwall, Horizontal Far Face              | S550ss                                 | 220  | 5'-4"     | SC   | 0'-10"    | 1'-2 1/2" | 1'-3"  | 1'-2 1/2" |   |   | 0'-10"    |           |          |   | Deck Overhang, Primary Transverse                        |  |  |
| B512ss  | 1    | 3'-6"   | Left Wingwall, Horizontal Far Face              | S551ss                                 | 592  | 7'-4"     | C    | 0'-7"     | 6'-9"     | 0'-0"  |           |   |   | 0'-9 1/2" | 0'-2 1/2" |          |   | End Diaphragm, Horizontal Stirrup Between Stems at Joint |  |  |
| B513ss  | 2    | 10'-10" | Right Wingwall, Horizontal Near Face            | S552ss                                 | 24   | 4'-0"     | P4   | 0'-10"    | 2'-4"     | 0'-10" |           |   |   | 0'-9 1/2" | 0'-2 1/2" |          |   | End Diaphragm, Horizontal Stirrup Between Stems          |  |  |
| B514ss  | 1    | 10'-10" | Right Wingwall, Horizontal Near Face            | S553ss                                 | 32   | 5'-5"     | P4   | 0'-10"    | 3'-9"     | 0'-10" |           |   |   | 1'-3"     |           |          |   | Approach Slab Pin  |  |  |
| B515ss  | 1    | 7'-9"   | Right Wingwall, Horizontal Near Face            | S554ss                                 | 66   | 5'-4"     | Z    | 2'-0"     | 1'-5"     | 1'-11" |           |   |   |           |           |          |   |  |  |  |
| B516ss  | 1    | 5'-6"   | Right Wingwall, Horizontal Near Face            | S751ss                                 | 50   | 12'-2"    | L    | 3'-2"     | 9'-0"     |        |           |   |   |           |           |          |   | End Diaphragm, Deck Hook                                 |  |  |
| B517ss  | 2    | 8'-11"  | Right Wingwall, Horizontal Far Face             |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B518ss  | 1    | 8'-1"   | Right Wingwall, Horizontal Far Face             |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B519ss  | 1    | 5'-10"  | Right Wingwall, Horizontal Far Face             |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B520ss  | 1    | 3'-7"   | Right Wingwall, Horizontal Far Face             |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B701ss  | 50   | 9'-5"   | Bridge Seat, Vertical, Far Face                 |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| Abutment No. 2 (Plain Rebar)                          |      |         |   |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B601  | 7    | 55'-3"  | Horizontal, Near Face                           |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B602  | 11   | 18'-7"  | Horizontal, Far Face                            |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| B801  | 34   | 20'-7"  | Horizontal, Far Face                            |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| Approach Slab (Plain Rebar)                           |      |         |   |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| AS501   | 32   | 20'-0"  | Approach Slab, Transverse                       |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| AS502   | 32   | 13'-6"  | Approach Slab, Transverse                       |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| AS601   | 128  | 15'-2"  | Approach Slab, Longitudinal                     |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| Superstructure (Glass Fiber Reinforced Polymer Rebar) |      |         |   |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| S500G   | 238  | 38'-3"  | Deck Slab, Primary Longitudinal Top and Bottom  |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| S501G   | 10   | 40'-2"  | End Diaphragm, Primary Longitudinal             |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| S502G   | 4    | 40'-2"  | Approach Slab Seat                              |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| S600G   | 149  | 32'-9"  | Deck Slab, Primary Transverse Top               |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| S601G   | 149  | 36'-2"  | Deck Slab, Primary Transverse Bottom            |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| Superstructure (Stainless Steel Rebar)                |      |         |   |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |
| S500ss  | 12   | 38'-3"  | Curb Top Reinforcing, Primary Longitudinal Curb |  |      |           |      |           |           |        |           |   |   |           |           |          |   |  |  |  |

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.  
 Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.  
 Reinforcing Bar: ASTM A615/A615M, Grade 60  
 ASTM A955, GRADE 75  
 ASTM D7957

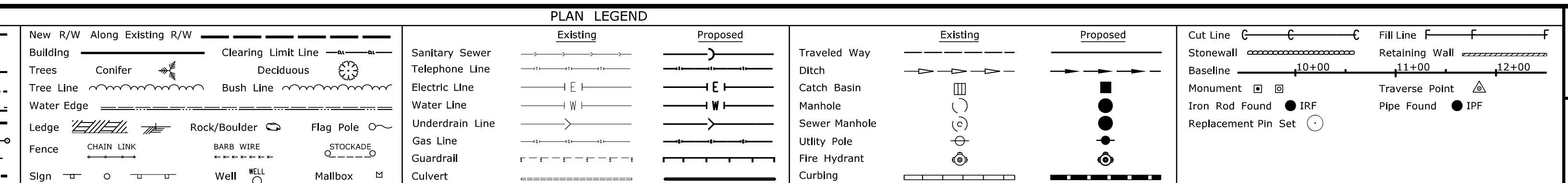
GENERAL NOTES

- The first two digits following the letter(s) of the mark indicate the size of the bar:  
 Mark "A502" = bar size #5  
 Mark "P805" = bar size #8  
 Mark "S650" = bar size #6  
 Mark "S650SS" = bar size #6 Stainless Steel  
 Mark "S600G" = bar size #6 GFRP
- Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans.
- Bar marks ending with 'G' indicate GFRP. Bar marks ending with 'SS' indicate stainless steel. All other bars are plain (uncoated).



|                     |  |                              |  |                     |  |                      |  |
|---------------------|--|------------------------------|--|---------------------|--|----------------------|--|
| STATE OF MAINE      |  | DEPARTMENT OF TRANSPORTATION |  | BRIDGE NO. 3225     |  | BRIDGE PLANS         |  |
| 2222400             |  | WIN                          |  | 022224.00           |  |                      |  |
| TAYLOR BROOK BRIDGE |  | TAYLOR BROOK                 |  | ANDROSCOGGIN COUNTY |  | REINFORCING SCHEDULE |  |
| AUBURN              |  | SHEET NUMBER                 |  | 25                  |  | OF 26                |  |

Town, County, State \_\_\_\_\_  
 Approx. Property Lines \_\_\_\_\_ P.L.  
 Existing Right of Way \_\_\_\_\_  
 Limits of Wrought Portion \_\_\_\_\_ L.O.W.P.  
 Control Of Access \_\_\_\_\_ C.O.A.  
 New Right of Way \_\_\_\_\_  
 New Easement \_\_\_\_\_  
 New Temporary Rights \_\_\_\_\_  
 New R/W Within Existing R/W \_\_\_\_\_

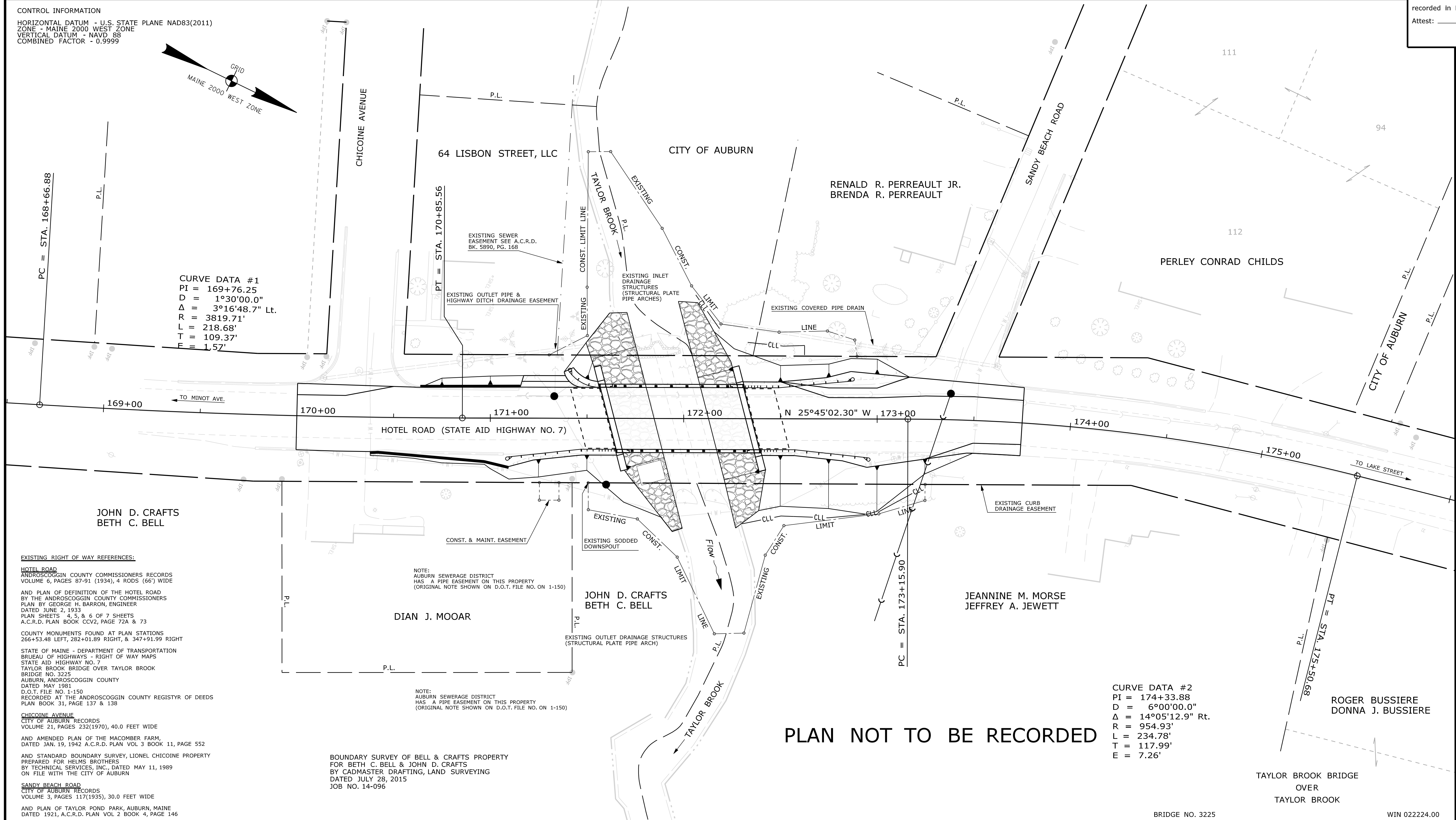
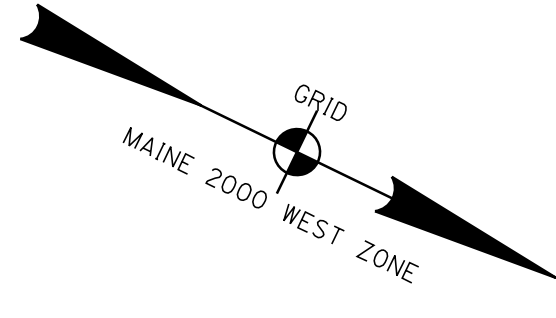


THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJUTING PROPERTY OWNERS.

STATE OF MAINE  
 REGISTRY OF DEEDS

COUNTY \_\_\_\_\_  
 RECEIVED \_\_\_\_\_,  
 at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and  
 recorded in Plan Bk \_\_\_\_\_, Pg. \_\_\_\_\_  
 Attest: \_\_\_\_\_ REGISTER

CONTROL INFORMATION  
 HORIZONTAL DATUM - U.S. STATE PLANE NAD83(2011)  
 ZONE - MAINE 2000 WEST ZONE  
 VERTICAL DATUM - NAVD 88  
 COMBINED FACTOR - 0.9999



CURVE DATA #1  
 PI = 169+76.25  
 D = 1°30'00.0"  
 Δ = 3°16'48.7" Lt.  
 R = 3819.71'  
 L = 218.68'  
 T = 109.37'  
 E = 1.57'

CURVE DATA #2  
 PI = 174+33.88  
 D = 6°00'00.0"  
 Δ = 14°05'12.9" Rt.  
 R = 954.93'  
 L = 234.78'  
 T = 117.99'  
 E = 7.26'

PLAN NOT TO BE RECORDED

EXISTING RIGHT OF WAY REFERENCES:  
**HOTEL ROAD**  
 ANDROSCOGGIN COUNTY COMMISSIONERS RECORDS  
 VOLUME 6, PAGES 87-91 (1934), 4 RODS (66') WIDE  
 AND PLAN OF DEFINITION OF THE HOTEL ROAD  
 BY THE ANDROSCOGGIN COUNTY COMMISSIONERS  
 PLAN BY GEORGE H. BARRON, ENGINEER  
 DATED JUNE 2, 1933  
 PLAN SHEETS 4, 5, & 6 OF 7 SHEETS  
 A.C.R.D. PLAN BOOK CCV2, PAGE 72A & 73  
 COUNTY MONUMENTS FOUND AT PLAN STATIONS  
 266+53.48 LEFT, 282+01.89 RIGHT, & 347+91.99 RIGHT  
 STATE OF MAINE - DEPARTMENT OF TRANSPORTATION  
 BRUEAU OF HIGHWAYS - RIGHT OF WAY MAPS  
 STATE AID HIGHWAY NO. 7  
 TAYLOR BROOK BRIDGE OVER TAYLOR BROOK  
 BRIDGE NO. 3225  
 AUBURN, ANDROSCOGGIN COUNTY  
 DATED MAY 1981  
 D.O.T. FILE NO. 1-150  
 RECORDED AT THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS  
 PLAN BOOK 31, PAGE 137 & 138

**CHICOINE AVENUE**  
 CITY OF AUBURN RECORDS  
 VOLUME 21, PAGES 232(1970), 40.0 FEET WIDE  
 AND AMENDED PLAN OF THE MACOMBER FARM,  
 DATED JAN. 19, 1942 A.C.R.D. PLAN VOL 3 BOOK 11, PAGE 552

AND STANDARD BOUNDARY SURVEY, LIONEL CHICOINE PROPERTY  
 PREPARED FOR HELMS BROTHERS  
 BY TECHNICAL SERVICES, INC., DATED MAY 11, 1989  
 ON FILE WITH THE CITY OF AUBURN

**SANDY BEACH ROAD**  
 CITY OF AUBURN RECORDS  
 VOLUME 3, PAGES 117(1935), 30.0 FEET WIDE  
 AND PLAN OF TAYLOR POND PARK, AUBURN, MAINE  
 DATED 1921, A.C.R.D. PLAN VOL 2 BOOK 4, PAGE 146

NOTE:  
 AUBURN SEWERAGE DISTRICT  
 HAS A PIPE EASEMENT ON THIS PROPERTY  
 (ORIGINAL NOTE SHOWN ON D.O.T. FILE NO. ON 1-150)

NOTE:  
 AUBURN SEWERAGE DISTRICT  
 HAS A PIPE EASEMENT ON THIS PROPERTY  
 (ORIGINAL NOTE SHOWN ON D.O.T. FILE NO. ON 1-150)

BOUNDARY SURVEY OF BELL & CRAFTS PROPERTY  
 FOR BETH C. BELL & JOHN D. CRAFTS  
 BY CADMASTER DRAFTING, LAND SURVEYING  
 DATED JULY 28, 2015  
 JOB NO. 14-096

| ITEM                    | TECH | CHECKED |        |
|-------------------------|------|---------|--------|
|                         |      | R.M.C.  | C.W.K. |
| EXISTING CONDITION PLAN |      |         |        |
| FINAL RIGHT OF WAY      |      |         |        |
| AREAS                   |      |         |        |

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
 AUBURN  
 RIGHT OF WAY MAP

| NO. | DATE | REVISIONS   |    |  | PLAN FILED IN PLAN BOOK | PAGE | COUNTY RECORD | BRUCE A. VAN NOTE |
|-----|------|-------------|----|--|-------------------------|------|---------------|-------------------|
|     |      | DESCRIPTION | BY |  |                         |      |               |                   |
|     |      |             |    |  |                         |      |               |                   |
|     |      |             |    |  |                         |      |               |                   |
|     |      |             |    |  |                         |      |               |                   |
|     |      |             |    |  |                         |      |               |                   |

BRUCE A. VAN NOTE  
 COMMISSIONER  
 JOYCE NOEL TAYLOR  
 CHIEF ENGINEER

DATE \_\_\_\_\_

STATE AID HIGHWAY NO. 7  
 HOTEL ROAD  
 AUBURN ANDROSCOGGIN COUNTY  
 FEDERAL AID PROJECT NO. 2222400

JANUARY 2020  
 SCALE 1" = 25'

RIGHT-OF-WAY MAP  
 SHEET 1 OF 1

D.O.T. FILE NO. 1-346

SHEET NUMBER  
**26**  
 OF 26

Filename: ... \00\ROW\MSTA026\_RWPLAN1.dgn  
 Division: BRIDGE  
 Username: Devon.C.Eaton  
 Date: 8/12/2020