1. Scope of Work: Install lighting as shown on this plan. Install service control, cabinets, conduit, wiring, foundations, poles, lights, luminaires, and related hardware. All materials and workmanship shall conform to applicable provisions of the Maine Department of Transportation standard specifications and standards details, national electrical code, and any requirements of the power company. The contractor shall verify pole locations to avoid natural and built-site features that would conflict with proper installation of pole foundations. The contractor shall visit the site prior to bidding to ensure awareness of site conditions that could affect the bid.

2. All lighting circuits are to be photoelectric activated by photocell on control cabinet. Lighting fixtures shall be of cutoff light and have a suitable design. All fixtures shall be insulated, having gasketed, have surge protection and a double fuse kit. Fixtures shall be UL-listed and marked with the appropriate arc hazard type 1, 2, 3, or 4. Each service cabinet shall be lockable and shall be provided with locks and two sets of keys for each cabinet. Cabinets shall be lockable and be provided with locks and two sets of keys for each cabinet. Each service cabinet shall be marked with an arc hazard type 1, 2, or 3, and the appropriate sign.

3. The lighting system and cabinet shall be capable of accepting future installation of photovoltaic (PV) remote management system hardware. Upon completion of this project, the contractor shall furnish to MaineDOT and the Town of Falmouth one set each of as-built lighting plans for future reference and system maintenance.

4. The contractor shall visit the site prior to bidding to ensure awareness of site conditions that could conflict with proper installation of pole foundations. The contractor shall visit the site prior to bidding to ensure awareness of site conditions that could conflict with proper installation of pole foundations.

5. All lighting circuits are to be photoelectric activated by photocell on control cabinet. Lighting fixtures shall be of cutoff light and have a suitable design. All fixtures shall be insulated, having gasketed, have surge protection and a double fuse kit. Fixtures shall be UL-listed and marked with the appropriate arc hazard type 1, 2, 3, or 4. Each service cabinet shall be lockable and shall be provided with locks and two sets of keys for each cabinet. Cabinets shall be lockable and be provided with locks and two sets of keys for each cabinet. Each service cabinet shall be marked with an arc hazard type 1, 2, or 3, and the appropriate sign.

6. LEGEND FOR LIGHTING:

- Lighting Circuit
- Pull Box
- Light Fixture and Pole
- Control Cabinet and Service

7. The electrical service to the control cabinet shall be either PVC conduit enclosed in concrete or steel conduit. If PVC conduit enclosed in concrete is used, concrete shall be 6" high, with 3" minimum strength and a minimum thickness of four inches surrounding the conduit. Concrete encasement will be incidental to payment for conduit. Minimum burial depth for all conduit shall be 36".

8. Lighting fixtures shall be Absolute Shallow asymmetric distribution and Deep Skirt LED luminaire. The luminaire shall be 6" high, with 3" minimum strength and a minimum thickness of four inches surrounding the conduit. Concrete encasement will be incidental to payment for conduit. Minimum burial depth for all conduit shall be 36".

9. Light fixtures shall be of cutoff light and have a suitable design. All fixtures shall be insulated, having gasketed, have surge protection and a double fuse kit. Fixtures shall be UL-listed and marked with the appropriate arc hazard type 1, 2, 3, or 4. Each service cabinet shall be lockable and shall be provided with locks and two sets of keys for each cabinet. Cabinets shall be lockable and be provided with locks and two sets of keys for each cabinet. Each service cabinet shall be marked with an arc hazard type 1, 2, or 3, and the appropriate sign.

10. Poles for lighting shall be Holophane 'Roam' remote management system hardware. Each pole shall be lockable and shall be provided with locks and two sets of keys for each pole. Each pole shall be marked with an arc hazard type 1, 2, or 3, and the appropriate sign.

11. Decorative Mounting Arm Shall Be Holophane 'Boston Harbor' Crossarm, 4' arm length, with 3x5 tenon, and 17" Round Base. Decorative Mounting Arm Shall Be Holophane 'Boston Harbor' Crossarm, 4' arm length, with 3x5 tenon, and 17" Round Base.

12. Poles for lighting shall be Holophane 'West Liberty' Decorative Arm Fitter. Catalog number for arm shall be: BHC 48/1 CA BKH. Catalog number for arm fitter shall be: WLDF13 200 BK.

13. Distribution: LED modules shall be IP66 rated.
Curved Data #4
P = 138.8663
D = 0.954228
B = 135.3439
L = 377.83
T = 1.9682
E = 0.96

Scale of Feet

Legend for Lighting
- Lighting Conduit
- Pull Box
- Light Fixture and Pole
- Control Cabinet and Service

Department of Transportation
State of Maine

Design-Detail 3

Revision 3

Field Changes
1. CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED PIPING AND APPURTENANCES. SALVAGE ALL REMOVED HYDRANTS AND DELIVER TO PWD YARD AT 225 DOUGLASS ST - PORTLAND.

2. ALL MAINS AND SERVICES SHALL BE INSTALLED WITH 5.5' OF COVER MEASURED FROM PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

3. THE PORTLAND WATER DISTRICT WILL NOTIFY CUSTOMERS FOR ALL WORK INVOLVING TEMPORARY SHUTDOWN OF SERVICE. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUTDOWN. THE DISTRICT MUST RECEIVE NOTICE FROM THE CONTRACTOR OF THE SHUTDOWN AT LEAST 48 HOURS PRIOR TO CUSTOMER NOTIFICATION.

4. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY-WRAPPED PER SPECIFICATION.

5. INSTALL 4" TEMPORARY FIRE DEPARTMENT CONNECTION (TYP.). 4" GATE VALVE, 90° ELBOW, AND 4-1/2" NPT STEAMER PORT CONNECTION WITH CAP AT LOCATIONS SHOWN ON THE DRAWINGS. ALL JOINTS TO BE RESTRAINED. STEAMER PORT AND RISER TO BE ANCHORED TO THE GROUND. OUTLET TO BE BETWEEN 1 AND 2' OFF THE GROUND. OUTLET AND TEE TO BE BRACED.

6. TEMPORARY WATER SYSTEM SHALL ONLY BE ACTIVE BETWEEN APRIL 15TH AND OCTOBER 15TH. ALL WATER MAIN, EITHER EXISTING OR NEWLY INSTALLED, MUST BE ACTIVE BETWEEN OCTOBER 16TH AND APRIL 14TH.

7. CONTRACTOR MUST ALLOW OWNER SUFFICIENT TIME TO TRANSFER WATER SERVICES FROM EXISTING WATER MAIN TO TEMPORARY WATER MAIN SERVICES INSTALLED BY CONTRACTOR AND TO TRANSFER SERVICE TO NEW WATER MAIN/SERVICE LINE UPON SUCCESSFUL TESTING OF SAMPLE FOR ABSENCE OF BACTERIA. THE CONTRACTOR SHALL NOT CLAIM ANY DELAY-RELATED COST OR TIME RELATED TO THIS WORK.

8. REPLACE ALL SERVICES TO BE RENEWED FROM MAIN TO STREET LINE WITH 1" COPPER PIPING, UNLESS OTHERWISE NOTED.

9. LOCATIONS OF UTILITIES OTHER THAN WATER ARE APPROXIMATE, AND NOT ALL UTILITIES ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, SUPPORTING AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE WATER MAIN.

10. INSTALL SWIVEL TYPE TEES FOR ALL HYDRANT CONNECTIONS.

11. A SHUTDOWN IS REQUIRED FOR INSTALLATION OF ALL CUT-IN VALVES AND FITTINGS ON EXISTING WATER MAINS.

12. ALL FITTINGS SHALL BE MECHANICAL JOINT (RETAINED).

13. REMOVE THE TOP SECTION OF ALL ABANDONED VALVE BOXES AND FILL WITH SAND.

14. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED MAINS.

15. INSTALL SWIVEL TEE'S FOR ALL HYDRAULIC CONNECTIONS.

16. A BID SETTING IS REQUIRED FOR INSTALLATION OF ALL COUPLING COUPLINGS AND FITTINGS ON EXISTING WATER MAINS.

17. ALL PIPING SHALL BE INSTALLED IN CONFORMITY WITH THE WATER PIPING CODE.

18. INSPECT THE TOP SECTION OF ALL ABANDONED MAIN BOXES AND VALVE BOXES.

19. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED PIPES.

NOTES

- The use of poly-wrapped pipes is required for all new mains and services.
- All cut-in valves and fittings on existing water mains require a shutdown.
- All fittings shall be mechanical joint (retained).
- Remove the top section of all abandoned valve boxes and fill with sand.
- Install a mechanical joint cap on ends of all abandoned mains.
- A bid setting is required for installation of all coupling couplings and fittings on existing water mains.
- All piping shall be installed in conformity with the Water Piping Code.

SCALE: 1" = 25'

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- TEMPORARY WATER MAIN
- PROPOSED/RENEWED SERVICE
- RECONNECT SERVICE

ASSET MANAGEMENT AND PLANNING DEPARTMENT
200 DOUGLAS STREET, PORTLAND ME 04104
(207) 774-5961  WWW.PWD.ORG

NOTE 1. CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED PIPING AND APPURTENANCES. SALVAGE ALL REMOVED HYDRANTS AND DELIVER TO PWD YARD AT 225 DOUGLASS ST - PORTLAND.

NOTE 2. ALL MAINS AND SERVICES SHALL BE INSTALLED WITH 5.5' OF COVER MEASURED FROM PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

NOTE 3. THE PORTLAND WATER DISTRICT WILL NOTIFY CUSTOMERS FOR ALL WORK INVOLVING TEMPORARY SHUTDOWN OF SERVICE. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUTDOWN. THE DISTRICT MUST RECEIVE NOTICE FROM THE CONTRACTOR OF THE SHUTDOWN AT LEAST 48 HOURS PRIOR TO CUSTOMER NOTIFICATION.

NOTE 4. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY-WRAPPED PER SPECIFICATION.

NOTE 5. INSTALL 4" TEMPORARY FIRE DEPARTMENT CONNECTION (TYP.). 4" GATE VALVE, 90° ELBOW, AND 4-1/2" NPT STEAMER PORT CONNECTION WITH CAP AT LOCATIONS SHOWN ON THE DRAWINGS. ALL JOINTS TO BE RESTRAINED. STEAMER PORT AND RISER TO BE ANCHORED TO THE GROUND. OUTLET TO BE BETWEEN 1 AND 2' OFF THE GROUND. OUTLET AND TEE TO BE BRACED.

NOTE 6. TEMPORARY WATER SYSTEM SHALL ONLY BE ACTIVE BETWEEN APRIL 15TH AND OCTOBER 15TH. ALL WATER MAIN, EITHER EXISTING OR NEWLY INSTALLED, MUST BE ACTIVE BETWEEN OCTOBER 16TH AND APRIL 14TH.

NOTE 7. CONTRACTOR MUST ALLOW OWNER SUFFICIENT TIME TO TRANSFER WATER SERVICES FROM EXISTING WATER MAIN TO TEMPORARY WATER MAIN SERVICES INSTALLED BY CONTRACTOR AND TO TRANSFER SERVICE TO NEW WATER MAIN/SERVICE LINE UPON SUCCESSFUL TESTING OF SAMPLE FOR ABSENCE OF BACTERIA. THE CONTRACTOR SHALL NOT CLAIM ANY DELAY-RELATED COST OR TIME RELATED TO THIS WORK.

NOTE 8. REPLACE ALL SERVICES TO BE RENEWED FROM MAIN TO STREET LINE WITH 1" COPPER PIPING, UNLESS OTHERWISE NOTED.

NOTE 9. LOCATIONS OF UTILITIES OTHER THAN WATER ARE APPROXIMATE, AND NOT ALL UTILITIES ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, SUPPORTING AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE WATER MAIN.

NOTE 10. INSTALL SWIVEL TYPE TEES FOR ALL HYDRANT CONNECTIONS.

NOTE 11. A SHUTDOWN IS REQUIRED FOR INSTALLATION OF ALL CUT-IN VALVES AND FITTINGS ON EXISTING WATER MAINS.

NOTE 12. ALL FITTINGS SHALL BE MECHANICAL JOINT (RETAINED).

NOTE 13. REMOVE THE TOP SECTION OF ALL ABANDONED VALVE BOXES AND FILL WITH SAND.

NOTE 14. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED MAINS.

NOTE 15. INSTALL SWIVEL TEE'S FOR ALL HYDRAULIC CONNECTIONS.

NOTE 16. A BID SETTING IS REQUIRED FOR INSTALLATION OF ALL COUPLING COUPLINGS AND FITTINGS ON EXISTING WATER MAINS.

NOTE 17. ALL PIPING SHALL BE INSTALLED IN CONFORMITY WITH THE WATER PIPING CODE.

NOTE 18. INSPECT THE TOP SECTION OF ALL ABANDONED MAIN BOXES AND VALVE BOXES.

NOTE 19. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED PIPES.
1. CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED PIPING AND APPURTENANCES. SALVAGE ALL REMOVED HYDRANTS AND DELIVER TO PWD YARD AT 225 DOUGLASS ST - PORTLAND.

2. ALL MAINS AND SERVICES SHALL BE INSTALLED WITH 5.5 FT OF COVER MEASURED FROM PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

3. THE PORTLAND WATER DISTRICT WILL NOTIFY CUSTOMERS FOR ALL WORK INVOLVING TEMPORARY SHUTDOWN OF SERVICE. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTICE PRIOR TO ANY SHUTDOWN. THE DISTRICT MUST RECEIVE NOTICE FROM THE CONTRACTOR OF THE SHUTDOWN AT LEAST 48 HOURS PRIOR TO CUSTOMER NOTIFICATION.

4. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY-WRAPPED PER SPECIFICATION.

5. INSTALL 4 TEMPORARY FIRE DEPARTMENT CONNECTION (TYP.). 4 GATE VALVE, 90° ELBOW, AND 4-1/2 NPT STEAMER PORT CONNECTION WITH CAP AT LOCATIONS SHOWN ON THE DRAWINGS. ALL JOINTS TO BE RESTRAINED. STEAMER PORT AND RISER TO BE ANCHORED TO THE GROUND. OUTLET TO BE BETWEEN 1 AND 2 FT OFF THE GROUND. OUTLET AND TEE TO BE BRACED.

6. TEMPORARY WATER SYSTEM SHALL ONLY BE ACTIVE BETWEEN APRIL 15TH AND OCTOBER 15TH. ALL WATER MAIN, EITHER EXISTING OR NEWLY INSTALLED, MUST BE ACTIVE BETWEEN OCTOBER 16TH AND APRIL 14TH.

7. CONTRACTOR MUST ALLOW OWNER SUFFICIENT TIME TO TRANSFER WATER SERVICES FROM EXISTING WATER MAIN TO TEMPORARY WATER MAIN SERVICES INSTALLED BY CONTRACTOR AND TO TRANSFER SERVICE TO NEW WATER MAIN/SERVICE LINE UPON SUCCESSFUL TESTING OF SAMPLE FOR ABSENCE OF BACTERIA. THE CONTRACTOR SHALL NOT CLAIM ANY DELAY-RELATED COST OR TIME RELATED TO THIS WORK.

8. REPLACE ALL SERVICES TO BE RENEWED FROM MAIN TO STREET LINE WITH 1" COPPER PIPING, UNLESS OTHERWISE NOTED.

9. LOCATIONS OF UTILITIES OTHER THAN WATER ARE APPROXIMATE, AND NOT ALL UTILITIES ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, SUPPORTING AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE WATER MAIN.

10. INSTALL SWIVEL TYPE TEES FOR ALL HYDRANT CONNECTIONS.

11. A SHUTDOWN IS REQUIRED FOR INSTALLATION OF ALL CUT-IN VALVES AND FITTINGS ON EXISTING WATER MAINS.

12. ALL FITTINGS SHALL BE MECHANICAL JOINT (RETAINED).

13. REMOVE THE TOP SECTION OF ALL ABANDONED VALVE BOXES AND FILL WITH SAND.

14. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED MAINS.
EXISTING AND TEMPORARY MAINS

1" = 25'

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- TEMPORARY WATER MAIN
- PROPOSED/RENEWED SERVICE
- RECONNECT SERVICE

NOTE

1. CONTRACTOR SHALL PATTERN ALL EXCAVATED PIPING AND APPURTENANCES PRIOR TO EXCAVATION TO ENSURE PROPER IDENTIFICATION, STORAGE, AND PROTECTION. THE Contractors ALLOWABLE WORKING HOURS ARE BETWEEN OCTOBER 16TH AND APRIL 14TH.

2. CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED PIPING AND APPURTENANCES. SALVAGE ALL REMOVED HYDRANTS AND DELIVER TO PWD YARD AT 225 DOUGLASS ST - PORTLAND.

3. THE PORTLAND WATER DISTRICT WILL NOTIFY CUSTOMERS OF THE PLANNED WATER MAIN REPLACEMENT. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTICE PRIOR TO INSTALLATION. CUSTOMERS SHOULD PREPARE TO BE WITHOUT WATER FOR AT LEAST 48 HOURS PRIOR TO CUSTOMER NOTIFICATION. CUSTOMERS SHOULD BE ADVISED OF POSSIBLE CLOSURE OF STREET DURING INSTALLED.

4. INSTALL SWIVEL TYPE TEES FOR ALL HYDRANT AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE NEW MAIN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, SUPPORTING, AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE CONTRACTOR AND TO TRANSFER SERVICE TO NEW WATER SERVICE. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTIFICATION PRIOR TO CUSTOMER NOTIFICATION.

5. INSTALL 4" TEMPORARY FIRE DEPARTMENT CONNECTION TO EXISTING HYDRANT. CONNECT 4" TEMP MAIN TO EXISTING HYDRANT. INSTALL 4" GATE VALVE, 90° ELBOW, AND 4-1/2" NPT STEAMER WRAPPED PER SPECIFICATIONS.

6. TEMPORARY WATER SYSTEM SHALL ONLY BE ACTIVE BETWEEN OCTOBER 16TH AND APRIL 14TH.

7. REPLACE ALL SERVICES TO BE RENEWED FROM MAIN TO EXISTING MAIN/SERVICE LINE UPON SUCCESSFUL TESTING OF SAMPLE CONDITION. INSTALL MJ ADAPTOR AND CONNECT TO NEW HDPE MAIN.

8. TEMPORARY MAIN SYSTEM SHALL ONLY BE ACTIVE BETWEEN 1 AND 2 OFF THE GROUND. OUTLET AND TEE TO BE LOCATION 17.

9. LOCATIONS OF UTILITIES OTHER THAN WATER ARE NOTED.

10. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL BOXES AND FILL WITH SAND.

11. A SHUTDOWN IS REQUIRED FOR INSTALLATION OF ALL CUT-CONNECTIONS.

12. ALL FITTINGS SHALL BE MECHANICAL JOINT (RETAINED). IN VALVES AND FITTINGS ON EXISTING WATER MAINS.

13. REMOVE THE TOP SECTION OF ALL ABANDONED VALVE BOXES AND FILL WITH SAND.

14. INSTALL A MECHANICAL JOINT CAP ON ENDS OF ALL ABANDONED MAINS.

15. TOP OF HDPE SHALL BE INSTALLED A MINIMUM OF 5' ABOVE BOTTOM OF PROPOSED CULVERT.

16. BELOW BOTTOM OF PROPOSED CULVERT.

17. TOP OF HDPE SHALL BE INSTALLED A MINIMUM OF 5' ABOVE BOTTOM OF PROPOSED CULVERT.

18. ABANDONED MAINS.

19. INSTALL MJ ADAPTOR AND CONNECT TO NEW HDPE MAIN.

20. TOP OF HDPE SHALL BE INSTALLED A MINIMUM OF 5' ABOVE BOTTOM OF PROPOSED CULVERT.

21. INSTALL MJ ADAPTOR AND CONNECT TO NEW HDPE MAIN.

22. INSTALL 240' OF HDPE WATER MAIN IN SERVICE DURING INSTALLATION.

23. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

24. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

25. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

26. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

27. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

28. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

29. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

30. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

31. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

32. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

33. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

34. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

35. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

36. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

37. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

38. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.

39. INSTALL 12" DI WITH PLUGGED END AND CONNECT TO NEW DI MAIN.

40. INSTALL 12" CAP ON 12" DI IN ORDER TO STAY WITHIN 5' OF PROPOSED ROAD GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR APPROVED BY A PWD REPRESENTATIVE.
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

FALMOUTH
CUMBERLAND COUNTY
LIBBY BRIDGE
OVER
PISCATAQUA RIVER
BRIDGE REHABILITATION
PROJECT LENGTH ~ LESS THEN 0.01 OF A MILE
BRIDGE NO. 2457
WIN 21722.00

MAINTENANCE OF TRAFFIC
Maintain two 11'-0" wide lanes of traffic. See SP 652.

PROJECT LOCATION
Libby Bridge on Rte. 26 & 100 (Gray Road) in Falmouth.
Lat./Long. 43°45'06.3" N 70°17'56.9" W

PROGRAM AREA
Bridge and Structure Maintenance

OUTLINE OF WORK
Replace existing curb and bridge rail and concrete repairs.

SPECIFICATIONS
MaineDOT Standard Specifications 2014
MaineDOT Standard Details 2014

TRAFFIC DATA
Current [2014] AADT ........................................ 7,678

MATERIALS
Concrete:
- Barriers, Curbs, Sidewalks & Transition Barriers ......... Class "L3"
Reinforcing Steel:
ASTM A 615/A 615M, Grade 60
Structural Steel:
All Material (except as noted), ............................, ASTM A 709, Grade 50
High Strength Bolts, ...................................., ASTM A 325, Type 3

BASIC DESIGN STRESSES
Concrete ..................................................... f'c = 5000 psi
Reinforcing Steel ........................................... f_y = 60,000 psi
Structural Steel:
- ASTM A 709, Grade 50 ............................... f_y = 50,000 psi
- ASTM A 709, Grade 50 ............................... f_y = 35,000 psi
- ASTM A 325 ............................................. f_y = 120,000 psi

CURRENT (2014) AADT
7,678

SHOW DRAWINGS
Title Sheet .................................................. 31
Plan Views and Sections ................................ 32
Sections and Details ...................................... 33
GENERAL CONSTRUCTION NOTES:

1. The existing bridge plans are reproductions of the original drawings as prepared for construction of the bridge. It is very unlikely that the plans will allow any construction field change or any alterations which may have been made to the bridge during its life span.

2. Dimensions shown are from existing plans and may differ from actual field dimensions. Field verify all dimensions prior to construction.

3. Contain and dispose of deteriorated removed concrete. Payment to be considered incidental to related 518 & 656 Pay Items.

4. Protective coating for concrete surfaces shall be applied to the following areas:

   - All exposed surfaces of concrete curbs and bridge during its life span.

   - Exposed surfaces of concrete curbs and bridge during its life span.

   - Protective coating for concrete surfaces shall be applied to the following areas:

   - All exposed surfaces of concrete curbs and bridge during its life span.

   - Exposed surfaces of concrete curbs and bridge during its life span.
Removing Existing Structural Concrete

- Saw cut ½" deep neat lines at repair perimeter (Typical)
- Sandblast exposed rebar in conjunction with Pay Item #526.34 - Steel Bridge Railing, 3 Bar
- Drill and anchor new #5 Bars, 3 at each Railpost location and 4 at each Concrete Transition Barrier. Payment considered incidental to related Pay Items 502.49 & 502.34 Pay Items

Overhead Surfaces < 8 inches.
- Patch spall with new concrete. Sandblast exposed rebar in conjunction with Pay Item #507.0821 - Steel Bridge Railing, 3 Bar
- Drill and anchor new #5 Bars, per manufacturers recommendations. Payment considered incidental to related Pay Items.

New 3 - Bar Traffic / Bicycle Rail and Posts per Pay Item #507.0820 - Steel Bridge Railing, 3 Bar

Section C - C

- New 3 - Bar Traffic / Bicycle Rail and Posts per Pay Item #507.0820 - Steel Bridge Railing, 3 Bar
- New Bridge rail and curb
- Edge of Sound Concrete
- 3" Minimum from the Edge of Sound Concrete (Typical, All Around)

Section D - D

- Mobile Drums
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
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- 4" White or Yellow Painted Pavement Marking Line
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- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
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- Bridge Transition - Type 1
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- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
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- Bituminous Sealing - Black
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- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
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- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
- Temporary Pavement Marking Line, White or Yellow
- 4" White or Yellow Painted Pavement Marking Line
- Bituminous Sealing - Black
- Bridge Transition - Type 1
- Work Zone Crash Cushion
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- Bituminous Sealing - Black
- Bridge Transition - Type 1
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- Bridge Transition - Type 1
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