



Paul R. LePage
GOVERNOR

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

David Bernhardt
COMMISSIONER

January 24, 2013
Subject: **Old Town**
Federal Project No: AC-STP-1930(100)X
State WIN: 019301.00
Amendment No. 1

Dear Sir/Ms.:

Make the following changes to the Bid Documents:

In the Bid Book (pages 17 thru 22) **REMOVE** the "SCHEDULE OF ITEMS" 6 pages dated 121231 and **REPLACE** with the attached new the "SCHEDULE OF ITEMS" 6 pages dated 130122.

In the Bid Book (pages 109 thru 111) **REMOVE** "SPECIAL PROVISION, SECTION 504, MISCELLANEOUS STRUCTURAL STEEL REPAIRS" 3 pages dated January 2, 2013 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 504, MISCELLANEOUS STRUCTURAL STEEL REPAIRS" 2 pages dated January 24, 2013.

In the Bid Book (pages 112 thru 117) **REMOVE** "SPECIAL PROVISION, SECTION 506, Lead Abatement and Field Coating Application" 6 pages dated January 2, 2013 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 506, Lead Abatement and Field Coating Application" 6 pages dated January 24, 2013

In the Bid Book (pages 121 and 122) **REMOVE** "SPECIAL PROVISION, SECTION 523, BEARINGS" 2 pages dated January 2, 2013 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 523, BEARINGS" 2 pages dated January 24, 2013

In the Plans, **REMOVE** the below listed Plan Sheets and **REPLACE** with the attached new Plan Sheets;

- Sheet Number 2 of 14
- Sheet Number 7 of 14
- Sheet Number 8 of 14
- Sheet Number 12 of 14

NOTE: Plan sheets will be FedExed/Mailed to those who purchased plans in the size and quantity ordered.



PRINTED ON RECYCLED PAPER

The following questions have been received:

Question: There is not a pay item for Transition Barriers. How will these be paid for?

Response: Please see revision to the Estimated Quantities on Sheet 2 of the plan set. Item 526.34 Permanent Conc. Transition Barrier has been added.

Question: SP 504.04H State the lead paint removal has to follow OSHA standards and be performed by a SSPC QP1 & QP2 certified contractor. Based on the minimal amount of lead paint removal, is MDOT willing to remove the SSPC qualified contractor requirement to remove lead paint, as the SP 506 requires the surface prep to be performed by a SSPC qualified contractor?

Response: Special Provisions 504, 506 and 523 have been revised. In addition, revisions have been made to Sheets 7 & 8 of the plan set.

Question: SP 506.04 requires a quality control inspector. This requirement has been removed in the past due to the minimal scope of painting. Considering the requirements the painting contractor has to have, would the Department consider removing the Quality Control Inspector requirement?

Response: Special Provisions 504, 506 and 523 have been revised. In addition, revisions have been made to Sheets 7 & 8 of the plan set.

Question: Standard Specification 502.13 states lightweight vibrating screeds can be used where concrete placements are specified to be less than 16' in width. Will lightweight vibrating screeds be allowed to finish the structural concrete slab as the placement width is only 8 inches wider at 16'-8" with only 15' being finished?

Response: Please see General Note # 17 which has been added to Sheet 2 of the plan set.

Question: Item 202.12 appears to have the wrong quantity. What is included in this item, all conc. Demo? Superstructure conc. demo. alone exceeds the quantity in item 202.12. Please clarify.

Response: Please see revised quantity for Item 202.12 of the Estimated Quantities on Sheet 2 of the plan set.

Question: The estimated quantities show pay item #520.22 – Expansion Device – compression seal. On sheet 12 of 14, note 10, it calls for the “gland seals” to have a movement rating of 4”. There are no compression seals with a movement rating of 4”.

Should the estimated quantities show a gland seal expansion device instead of a compression seal?

Response: Please see revision to the Estimated Quantities on Sheet 2 of the plan set. Item 520.22 (Compression Seal) has been replaced with Item 520.21 (Gland Seal). The quantity remains unchanged. Also, please note the revisions to Sheet 12 of the plan set.

Question: Under what item are Concrete Transition Barriers to be paid?

Response: Please see revision to the Estimated Quantities on Sheet 2 of the plan set. Item 526.34 Permanent Conc. Transition Barrier has been added.

Consider this change and information prior to submitting your bid on January 30, 2013.

Sincerely,


For. George M. A. Macdougall P.E.
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

CONTRACT ID: 019301.00

PROJECT(S): AC-STP-1930(100)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 PROJECT ITEMS

0010	202.12 REMOVING EXISTING STRUCTURAL CONCRETE	CY	513.000				
0020	202.13 REMOVING EXISTING RAILINGS (RETAINED BY DEPARTMENT)	LF	1017.000				
0030	202.202 REMOVING PAVEMENT SURFACE	SY	406.000				
0040	203.20 COMMON EXCAVATION	CY	147.000				
0050	203.24 COMMON BORROW	CY	51.000				
0060	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	CY	196.000				
0070	403.207 HOT MIX ASPHALT 19.0 MM HMA	T	86.000				
0080	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	T	198.000				
0090	403.213 HOT MIX ASPHALT 12.5 MM BASE	T	198.000				
0100	409.15 BITUMINOUS TACK COAT - APPLIED	G	85.000				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 019301.00

PROJECT(S): AC-STP-1930(100)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP	LUMP			
0120	502.26 STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	LUMP	LUMP			
0130	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP	LUMP			
0140	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	LB 4900.000				
0150	503.13 REINFORCING STEEL, PLACING	LB 4900.000				
0160	504.811 STRUCTURAL STEEL REPAIR	LB 1470.000				
0170	505.08 SHEAR CONNECTORS	LUMP	LUMP			
0180	506.144 FIELD PAINTING NEW AND EXISTING STRUCTURAL STEEL	LUMP	LUMP			
0190	506.17 SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	LUMP	LUMP			
0200	506.18 CONTAINMENT AND POLLUTION CONTROL	LUMP	LUMP			

SCHEDULE OF ITEMS

CONTRACT ID: 019301.00

PROJECT(S): AC-STP-1930(100)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0210	506.191 DISPOSAL OF SPECIAL WASTE OR HAZARDOUS WASTE MATERIAL	LUMP	LUMP			
0220	507.0811 STEEL BRIDGE RAILING, 2 BAR	LUMP	LUMP			
0230	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0240	513.40 SLOPE PROTECTION - REPAIR	SY 70.000				
0250	514.06 CURING BOX FOR CONCRETE CYLINDERS	EA 1.000				
0260	515.20 PROTECTIVE COATING FOR CONCRETE SURFACES	SY 548.000				
0270	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN.	SF 20.000				
0280	520.21 EXPANSION DEVICE - GLAND SEAL	EA 2.000				
0290	523.52 BEARING INSTALLATION	EA 4.000				
0300	523.5304 STEEL BEARINGS, EXPANSION, ROCKER	EA 4.000				

MAINE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 4
DATE: 130122
REVIS ED:

CONTRACT ID: 019301.00

PROJECT(S): AC-STP-1930(100)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0310	524.301 TEMPORARY STRUCTURAL SUPPORT	LUMP	LUMP			
0320	524.40 PROTECTIVE SHIELD	LUMP	LUMP			
0330	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0340	526.34 PERMANENT CONCRETE TRANSITION BARRIER	EA 4.000				
0350	527.34 WORK ZONE CRASH CUSHIONS	UN 2.000				
0360	606.1721 BRIDGE TRANSITION - TYPE 1	EA 4.000				
0370	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	LF 180.000				
0380	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	EA 8.000				
0390	606.754 WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	EA 2.000				
0400	606.79 GUARDRAIL 350 FLARED TERMINAL	EA 2.000				
0410	607.184 CHAIN LINK SNOW FENCE 3 FOOT	LF 420.000				

MAINE DEPARTMENT OF TRANSPORTATION

PAGE: 5
 DATE: 130122
 REVISIONS:

SCHEDULE OF ITEMS

CONTRACT ID: 019301.00

PROJECT(S): AC-STP-1930(100)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0420	615.07 LOAM	CY 23.000				
0430	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	UN 1.000				
0440	619.1201 MULCH - PLAN QUANTITY	UN 1.000				
0450	619.1401 EROSION CONTROL MIX	CY 46.000				
0460	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	LF 3440.000				
0470	629.05 HAND LABOR, STRAIGHT TIME	HR 40.000				
0480	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR 20.000				
0490	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	HR 20.000				
0500	639.19 FIELD OFFICE TYPE B	EA 1.000				
0510	643.72 TEMPORARY TRAFFIC SIGNAL	LUMP	LUMP			
0520	652.30 FLASHING ARROW BOARD	EA 2.000				

SCHEDULE OF ITEMS

CONTRACT ID: 019301.00

PROJECT(S): AC-STP-1930(100)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0530	652.33 DRUM	EA 40.000				
0540	652.34 CONE	EA 20.000				
0550	652.35 CONSTRUCTION SIGNS	SF 100.000				
0560	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP	LUMP			
0570	652.38 FLAGGER	HR 40.000				
0580	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	EA 2.000				
0590	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0600	659.10 MOBILIZATION	LUMP	LUMP			
	SECTION 0001 TOTAL					
	TOTAL BID					

SPECIAL PROVISION
SECTION 504
MISCELLANEOUS STRUCTURAL STEEL REPAIRS

504.01 Description. This Special Provision is limited to the removal, repair or replacement of existing structural steel members or components of such members.

This work shall be done in conformance with the Maine DOT Standard Specifications, Section 504 - Structural Steel except as modified by the Contract Documents. It is the intent and purpose of this special provision to cover and include all tools, equipment, materials, supplies, and labor necessary to complete the work described herein. Any incidental equipment, materials, supplies, or labor, such as the erection of false work to gain access to a removal/repair location, not specifically mentioned herein, which may be found necessary to complete the work in a substantial manner, shall be incidental to the respective payment item.

The work shall also include providing, placing, maintaining, and removing staging, scaffolding, or other means of access required to complete the work at locations as described in the contract documents and/or as directed by the Resident.

504.02 Materials and Workmanship.

A. Materials shall meet the requirements specified in the following Sections of the Standard Specifications, Division 700 - Materials, except where modified by these Contract Documents:

- 713.01 Structural Steel
- 713.02 High Strength Bolts

504.03 Construction Requirements.

- A. The installation of new structural steel and reinforcement of existing structural steel shall be accomplished such that the structural integrity of the existing structure shall be maintained at all times.
- B. The Contractor shall field verify all dimensions and may utilize available existing shop drawings as necessary to ensure accurate detailing and fabrication.
- C. The Contractor shall take suitable measures to protect vehicles and pedestrians from injury and/or damage from falling objects. The Contractor is solely responsible for injury and damage.
- D. Extreme care shall be taken during removal to avoid damaging the existing structure to remain. Any portion of the existing structure damaged by the Contractor shall be repaired as directed by the Resident at no additional cost.

ITEM SPECIFIC REQUIREMENTS

Structural Steel Repair

A. General:

Work under this item includes the removal and replacement of corrosion damaged diaphragms and connection plates.

B. Unless otherwise noted in the contract documents, all bolts shall be 7/8" diameter.

C. Existing Structural Steel shall be removed to the limits shown on the plans.

D. Method of Measurement:

The quantity for which payment will be made under this item will be the number of POUNDS of structural steel, installed as indicated on the contract drawings or as directed by the Resident. New high strength bolts shall not be weighed or otherwise measured for payment, but shall be considered incidental to the work required under this Item.

504.04 Basis of Payment.

The price bid shall include removal of any structural steel described in the plans or as directed by the Resident, as well as furnishing, fabricating, delivery and erection of replacement structural steel, including the supply of all tools, labor, equipment, scaffolding, materials, transportation and incidentals necessary for the satisfactory completion of the work at locations as described in the contract documents and/or as directed by the Resident. Payment will be under the following payment items:

<u>Pay Item</u>	<u>Description</u>	<u>Pay Unit</u>
504.811	Structural Steel Repair	LB

SPECIAL PROVISION
SECTION 506

Lead Abatement and Surface Coating Application

506.01 Description. All requirements of this Specification are the responsibility of the Contractor unless otherwise specifically stated herein. This work shall consist of localized cleaning and coating of existing and new structural steel. Provide all tools, equipment, materials, miscellaneous items and containment necessary for satisfactory completion of the work. Assume existing paint contains lead (BLSC). Areas requiring touch-up, as identified by the Resident, shall conform to the requirements of this Special Provision.

506.02 Materials.

An organic zinc-rich primer from the NEPCOAT Qualified Products List-List C in accordance with the Manufacturer's Product Data Sheet.

Provide the Manufacturer's Product Data Sheet to the Resident for review prior to beginning coating. Provide coating in the smallest kit sizes or containers available from the coating manufacturer.

506.03 Contractor Qualification.

The Contractor shall have five years of documented commercial paint experience that is satisfactory to the Resident. Provide a surface preparation; coating application, containment and waste management plan for review by the Resident prior to beginning coating. No surface preparation or coating shall be done prior to review of the plan.

506.04 Quality Control. Provide a Quality Control Inspector that has successfully completed NACE Coating Inspector Training, Session One, SSPC BCI training or has other inspection experience that is acceptable to the Resident.

The Quality Control Inspector shall:

- Inspect surface preparation.
- Record coating lot numbers and manufacture date.
- Witness the mixing of the coating.
- Measure and record the environmental conditions in the immediate vicinity of the coating operation.
- Measure and record dry film thickness of each coat.
- Record all Quality Control activity in a format acceptable to the Resident.
- Provide the Department with a copy of all test results and measurements.
- Reject unacceptable work and cause it to be re-done.

506.05 Containment. Meet the requirements of SSPC Guide 6, Table P-Power Tool Cleaning and all state and Federal requirements for the removal and containment of hazardous materials at locations of coating removal.

506.06 Waste Management. The Contractor shall collect, store and dispose of lead paint and related waste in compliance with all Federal, State and local laws and requirements. The procedures used for disposal shall conform to the latest requirements of Steel Structures Painting Council Guide 7, Guide for the Disposal of Lead-Contaminated Surface Preparation Debris. The Contractor shall have a copy of this guide available on site at all times. The Contractor shall also have a copy of the Maine Department of Environmental Protection's (MDEP's) Handbook for Hazardous Waste Generators and a copy of the State of Maine Hazardous Waste Management Rules, 06-096 CMR Chapters 850-857, on site at all times. Thirty days prior to generating any waste, the Contractor shall submit their Waste Management Plan which shall include the Spill Prevention Control and Countermeasure (SPCC) Plan to the Department for review and comment. Emergency procedures to be taken in the event of a release of hazardous/special waste or hazardous matter to the environment shall be part of the SPCC Plan. Work shall not proceed until the Department has formally accepted the Waste Management Plan as being complete.

The Department has "Small Quantity Generator-Plus (SQG-Plus)" hazardous waste status for the hazardous waste activities associated with this Contract, as defined by MDEP in the Handbook for Hazardous Waste Generators. Except for a generation rate and site specific identification number, all requirements associated with SQG-Plus status apply. Given the temporary nature of the work, MDEP has excluded the SQG-Plus generation rate restriction and permanent identification number for these bridge maintenance efforts as long as all other SQG-Plus requirements are fully complied with.

All hazardous waste shall be stored in USDOT approved drums. The waste drums shall be placed in an approved locking structure which has a firm, impervious, floor surface and secondary containment that is either 110% of the largest container or 20% of all containers, whichever is larger. All waste containers must be labeled with the words "Hazardous Waste", the hazard (e.g., Toxic, Flammable, etc.), the start date, full date, site location and generator information. The lockable container must be labeled "Danger-Unauthorized Personnel Keep Out" and shall be locked at all times when not being accessed. No more than 1,320 pounds and no more than three 55-gallon drums of hazardous waste may be stored at the site at any time. The waste storage locker must be inspected each operating day in accordance with MDEP regulations. The written log shall detail the findings of the daily inspections and it must be maintained by the Contractor and provided to the Department at the end of the project. The Contractor shall store all hazardous waste, in conformance with all other MDEP and Federal Rules, including Chapter 851, Section 13, Part C(7)(i) and 40 CFR 2674.14. Hazardous wastes are limited to an on-site storage time of 180 days following the filling of a drum.

Hazardous/special paint debris and other waste shall not be placed or accumulated on unprotected ground or released to waters of the State. Work areas shall be adequately shielded at all times to prevent dispersion of debris by wind or rain. All of the Contractor's equipment and storage areas used for the handling and storage of hazardous waste, special wastes and hazardous materials shall have impervious tarps placed under them. Any evidence of improper storage and handling shall be cause for immediate suspension of work in progress and work will not be allowed until corrective actions are taken.

All paint-related waste material generated as part of this initiative must be managed as a hazardous waste. Management of the remaining waste materials will depend on the results of laboratory testing. The Contractor may assume these wastes are hazardous or may test the debris (including personal protective equipment, gray water, etc.) to determine the appropriate disposal options. The Department must be notified at least one week in advance of the date of sampling activities and provided the proposed protocol for sample collection. The Department shall witness the sampling. Chain-of-custody must be adhered to for sample removal. Certified laboratory test results shall be provided to the Department upon receipt by the Contractor.

The Contractor shall inform the Department at least three days in advance of planned date(s) for removal of hazardous waste from the job site. The Department shall obtain a provisional Environmental Protection Agency Identification Number prior to shipping any hazardous waste for disposal. This provisional number must be used by the Contractor to ship hazardous waste off site. The Contractor shall secure a MaineDOT approved transporter (e.g., Enpro Services, Inc., or Environmental Products, Inc.) licensed by MDEP for transportation of hazardous waste. Preparation of all necessary forms is the responsibility of the Contractor. The Hazardous Waste Manifest must be approved and signed by the Department. A multi-part, pre-numbered Uniform Hazardous Waste Manifest (EPA Form 8700-22) shall be prepared when shipping hazardous waste. The appropriate original sheets of the multi-part hazardous waste manifest must be provided to the Department and must be sent to the Department's Supervisor of Groundwater and Hazardous Waste Management, Environmental Office, State House Station #16, Augusta, Maine, 04330.

Failure of the Contractor to comply with this section shall result in the following:

- First finding of non-conformity shall be a written warning which will include deadline for compliance.
- Second finding of non-conformity shall be documented in writing, and all operations by the Contractor, except those needed to restore compliance, will be immediately suspended, until full compliance has been restored.
- Third and subsequent findings of non-conformity will be documented in writing and all operations shall be immediately suspended, except those needed to restore compliance, until full compliance has been fully restored, and the Contractor assessed

a penalty of \$10,000.00 per incident. If the Contractor fails to restore the Project into compliance, additional fines shall be assessed.

All penalties assessed shall be in addition to any fines assessed by MDEP/EPA for failing to comply with the Federal, State, or local regulations. The Contractor shall not be granted additional time for suspensions of work due to noncompliance.

506.07 Surface Preparation. After welding and/or bolting, prepare the surfaces to a minimum of SSPC-SP 11-Power Tool Cleaning to Bare Metal. Develop an anchor profile that corresponds with the requirements of the primer coat manufacturer's product data sheet. For repair areas, clean the steel six inches in all directions from the weldment or 1 inch in all directions from any bolting.

506.08 Application. All new steel shall have one shop coat of primer applied. Do not spray the coating in the field; apply the coating using brushes, rollers or other methods acceptable to the Resident. Only shop applied coating may be sprayed. Mask areas to be field welded. Single component coatings may be opened and re-sealed as long as the remaining coating has not begun to degrade or cure in the container.

Two-component kits may be split if the components are measured in the proper proportions by mass using a calibrated scale and the measuring and mixing are witnessed by the Resident and Quality Control Inspector. The proportions shall be provided on a company letterhead by the coating manufacturer.

Apply the coating after the Quality Control Inspector has measured and recorded the environmental conditions in the immediate vicinity of the work and has given permission to begin coating.

Cure the coating for the maximum amount of time specified for the minimum temperature encountered during the cure cycle. The environmental conditions recorded at the nearest airport may be used to settle disputes between the Department and the Contractor.

Advise the Resident when dry film thicknesses are measured in order that the Resident may witness the measurements. Do not remove the access to the work area until the Work has been completed and accepted by the Quality Control Inspector.

506.09 Touch-up and Repairs Repair damaged or unacceptable shop coating before the piece is removed from the paint area in the shop. Damaged areas shall be prepared in accordance with the manufacturer's published instructions. Damaged or unacceptable coatings shall be repaired using the same coating system. Environmental conditions, cure times and DFTs shall be in accordance with manufacturer's published data sheets. The Fabrication Engineer shall have final authority concerning acceptable appearance.

Touch-up and repairs of damaged coating at the bridge site shall be done in accordance with the manufacturer's published instructions. Prepare areas to be touched-up/repared in a manner that assures the proper adhesion.

Payment for all touch-up and repairs shall be incidental to the Work.

506.10 Method of Measurement.

Surface Preparation of Existing and New Structural Steel shall be measured for payment as one lump sum, complete and accepted.

Field Painting of Existing and New Structural Steel shall be measured for payment as one lump sum, complete and accepted.

Containment and Pollution Control Measures shall be measured for payment as one lump sum, complete and accepted.

Disposal of Special Waste or Hazardous Waste materials shall be measured for payment as one lump sum.

506.11 Basis of Payment.

The accepted quantity of Surface Preparation of Existing and New Structural Steel will be paid at the respective Contract lump sum price, which shall be full compensation for furnishing all materials, labor, tools, equipment, scaffolding, QC inspections, and any other incidentals necessary for the satisfactory performance of the work.

The accepted quantity of Field Painting of Existing and New Structural Steel will be paid at the Contract lump sum price, which shall be full compensation for furnishing all material, labor, equipment, scaffolding and incidentals necessary for the satisfactory performance of the work. Containment and pollution control will be paid for at the Contract lump sum price, which price shall be compensation for furnishing all materials, labor, equipment, and incidentals necessary for the satisfactory performance of the work.

Disposal of Special Waste or Hazardous Waste materials will be paid at the Contract lump sum price, which price shall be full compensation for all permits, tests, transportation, tipping fees and incidentals necessary for the satisfactory performance of the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
506.144 Field Painting of New and Existing Structural Steel	LS

506.17	Surface Preparation of New and Existing Structural Steel	LS
506.18	Containment and Pollution Control Measures	LS
506.191	Disposal of Special Waste or Hazardous Waste Material	LS

SPECIAL PROVISION
SECTION 523
BEARINGS

Description:

This work shall consist of all labor, equipment, and materials required to remove, fabricate, and install the bearing systems shown on the plans; totaling 4 bearing systems. The new bearing system is a replication of the old as shown on the plans and consists of the Sole Plate, Bearing, and Masonry Plate and Anchor Bolts.

Construction Requirements:

Remove:

The bearing system shall be carefully detached from the girder by removing the existing fillet weld, without damaging the base metal. Any damage to the girder or the bearing shall be repaired at no additional cost to the Department, and the repair procedure shall be approved by the Department. The bearings shall be removed and become property of the contractor. The anchor bolts shall be cut a minimum of 2" below the concrete surface, and the holes grouted to a level flush with the surrounding concrete surface using grout from the MaineDOT pre-approved products list. Payment for the grouting of the cut bolt holes shall be incidental to this specification.

Fabricate:

The new bearings shall be constructed to all applicable AISC standards. See bearing notes on plans for more information.

The bearing systems shall also meet the following criteria.

- Ensure expansion bearings are free to rotate
- Apply a minimum of 1 (One) coat of primer

Primer material and application shall be in accordance with Special Provision 506, Lead Abatement and Surface Coating Application. Tops of Sole Plates are not to be primed. Mask areas to be field welded.

Install:

The abutment bridge seat area surrounding the existing bearing plates shall be bushed to the elevation of the existing bearing. The new bearing system shall be reset in the existing locations on a 1/8 inch thick preformed pad, manufactured in accordance with Section

713.03. The pad shall be the same size and shape as the new masonry plate, with holes to match the masonry plate. The new anchor bolts shall be installed and grouted into place. Grout shall be from the MaineDOT pre-approved products list, in accordance with the manufacturer's installation recommendations. The bearing is to be angled according to the Bearing Setting Chart, see plans for chart. With the bearing appropriately angled, the bridge shall be lowered back onto the bearing system in accordance with Special Provision 524, Temporary Structural Supports. The bottom flange of the girder shall be welded to the top of the sole plate of the bearing system per plan. After welding, the weld area shall be field primed in accordance with Special Provision 506, Lead Abatement and Surface Coating Application.

Method of Measurement:

The removal, fabrication and installation of all the abutment bearing systems, shall be measured for payment as one lump sum unit, complete in place and accepted.

Basis of Payment:

Payment shall include labor, equipment, material and incidentals necessary to complete the work.

Pay Item:

Pay Unit:

523.52	Bearing Installation	EA
523.5304	Steel Bearings, Expansion, Rocker	EA

GENERAL CONSTRUCTION NOTES

- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- All work to remain within the existing Right-of-Way, refer to Sheet 3. If a larger view of the Right-of-Way is required, it will be provided upon request.
- Existing guardrail shall be removed as shown in the Plans and will become the property of the Contractor. Payment for guardrail removal will be considered incidental to Contract items.
- All aluminum bridge rail, rail posts, and associated hardware which are to be removed shall be carefully salvaged by the Contractor and will remain the property of the Department. Payment will be considered incidental to related Contract items.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- In areas where the Resident directs the Contractor not to excavate to the subgrade line as shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less will be made under appropriate equipment rental lines.
- Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
- 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 619.1401, Erosion Control Mix.
- 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 related Contract items.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:
 All exposed surfaces of concrete curbs and sidewalks.
 Fascia down to drip notch.
 All exposed surfaces of Concrete Transition Barriers.
 Ends of superstructure slabs at expansion joint.
 Top of abutment backwalls and to one foot below the top of backwalls on the back side.
- Concrete repair should be made to the locations shown on Sheet 5. Payment for this work will be made under Item No. 518.5, Repair of Upward Facing Surface - To Reinforcing Steel.
- The temporary concrete barrier positioned on the existing and new bridge decks shall be positively attached to the concrete deck. The method of attachment shall be designed and stamped by a professional engineer registered in the State of Maine and approved by the Resident. This work shall not be paid for directly. Payment shall be considered incidental to related contract items.
- Existing bridge plans may be accessed at the following web address: <https://www.maine.gov/mdot/comprehensive-ist-projects/project-information.php>
 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 life span.

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITIES	UNIT
202.12	REMOVE EXIST STRUCTURAL CONCRETE	513	CY
202.13	REMOVE EXIST RAILINGS - RET. BY DEPARTMENT	1017	LF
202.202	REMOVE PAVEMENT SURFACE	406	SY
203.20	COMMON EXCAVATION	147	CY
203.24	COMMON BORROW	51	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	196	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	86	T
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	198	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	198	T
409.15	BITUMINOUS TACK COAT APPLIED	85	G
502.219	STRUCTURAL CONC ABUT & RETAINING WALL	1	LS
502.26	STRUCTURAL CONC R0&SW SLAB ON ST BR	(13 CY)	LS
502.49	STRUCTURAL CONC CURBS AND SIDEWALK	(420 CY)	LS
503.12	REINF STEEL FAB & DEL	(63 CY)	LB
503.13	REINF STEEL PLACING	4900	LB
504.811	STRUCTURAL STEEL REPAIR: DIAPHRAGM REPLACEMENT	1470	LB
505.08	SHEAR CONNECTORS	1	LS
506.144	FIELD PAINTING NEW AND EXISTING STRUCTURAL STEEL	(6000 LB)	LS
506.17	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	1	LS
506.18	CONTAINMENT AND POLLUTION CONTROL	(6000 LB)	LS
506.191	DISPOSAL OF SPECIAL WASTE MATERIAL	(6000 LB)	LS
507.0811	STEEL BRIDGE RAILING, 2 BAR	(1045 LF)	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	(1700 SY)	LS
513.4	SLOPE PROTECTION REPAIR	70	SY
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.20	PROTECTIVE COATING FOR CONC SURFACES	548	SY
518.5	REPAIR TO UPWARD FACING SURFACE - TO RE STEEL	20	SF
520.21	EXPANSION DEVICE - GLAND SEAL	2	EA
523.50	PERMANENT CONC TRANSITION BARRIER	4	EA
523.501	STEEL BEARINGS, EXPANSION, ROCKER	4	EA
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS
524.40	PROTECTIVE SHIELD	1	LS
526.34	PERMANENT CONC TRANSITION BARRIER	4	EA
527.34	WORK ZONE CRASH CUSHIONS	2	UN
606.1721	BRIDGE TRANSITION TYPE 1	4	EA
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	180	LF
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.754	WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	2	EA
606.79	GUARDRAIL 350 FLARED TERMINAL	2	EA
607.184	CHAIN LINK SNOW FENCE 3'	420	LF
615.07	LOAM	23	CY
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	1	UN
619.1201	MULCH - PLAN QUANTITY	1	UN
619.1401	EROSION CONTROL MIX	46	CY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	3440	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INC OPERATOR)	20	HR
631.172	TRUCK-LARGE (INC OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.3	FLASHING ARROW BOARD	2	EA
652.33	DRUM	40	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	100	SF
652.38	FLAGGER	40	HR
652.361	MAINT OF TRAFF CONTROL DEV	1	LS
652.41	PORTABLE CHANGEABLE MESSAGE SIGNS	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.101	MOBILIZATION	1	LS

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITIES	UNIT
659.101	MOBILIZATION	1	LS
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
652.41	PORTABLE CHANGEABLE MESSAGE SIGNS	2	EA
652.361	MAINT OF TRAFF CONTROL DEV	1	LS
652.38	FLAGGER	40	HR
652.35	CONSTRUCTION SIGNS	100	SF
652.34	CONE	20	EA
652.3	FLASHING ARROW BOARD	2	EA
639.19	FIELD OFFICE TYPE B	1	EA
631.172	TRUCK-LARGE (INC OPERATOR)	20	HR
631.12	ALL PURPOSE EXCAVATOR (INC OPERATOR)	20	HR
629.05	HAND LABOR, STRAIGHT TIME	40	HR
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	3440	LF
619.1401	EROSION CONTROL MIX	46	CY
619.1201	MULCH - PLAN QUANTITY	1	UN
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	1	UN
615.07	LOAM	23	CY
607.184	CHAIN LINK SNOW FENCE 3'	420	LF
606.79	GUARDRAIL 350 FLARED TERMINAL	2	EA
606.754	WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	2	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.1721	BRIDGE TRANSITION TYPE 1	4	EA

DATE	BY	DESCRIPTION
10/20/12	JMA	REVISED
10/20/12	JMA	REVISED
01/20/13	JMA	REVISED

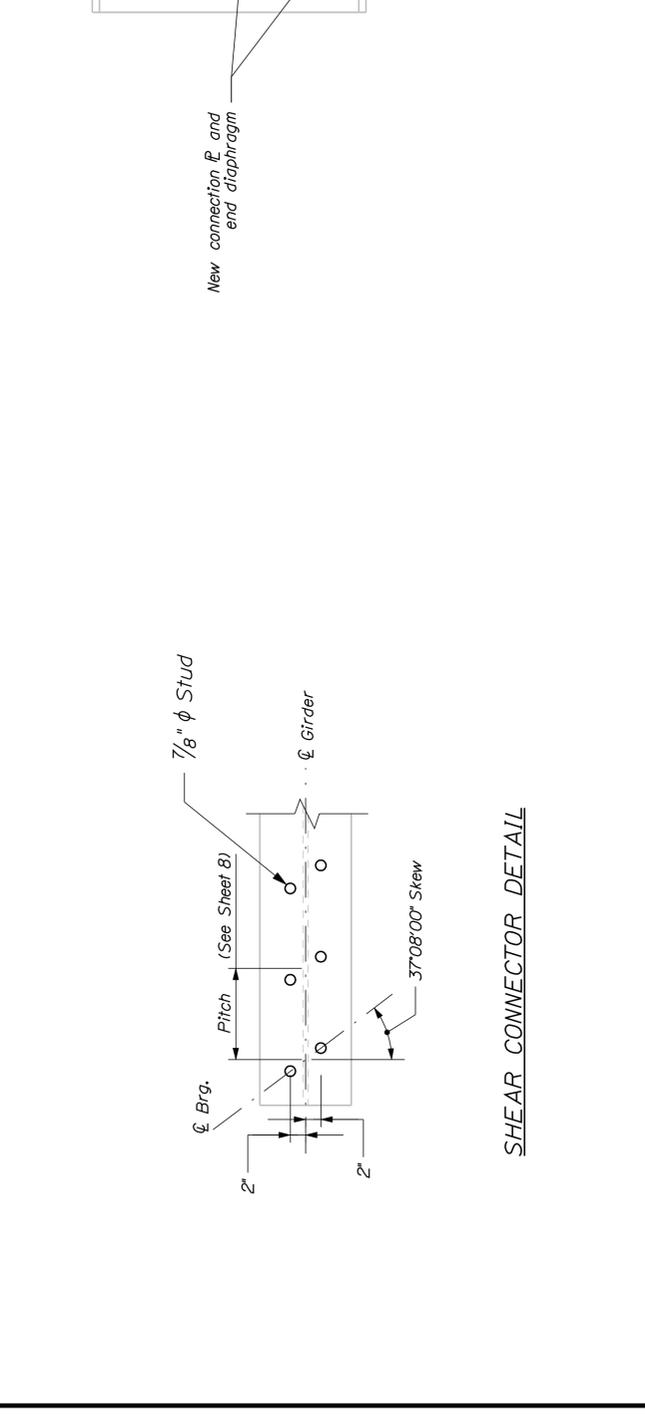
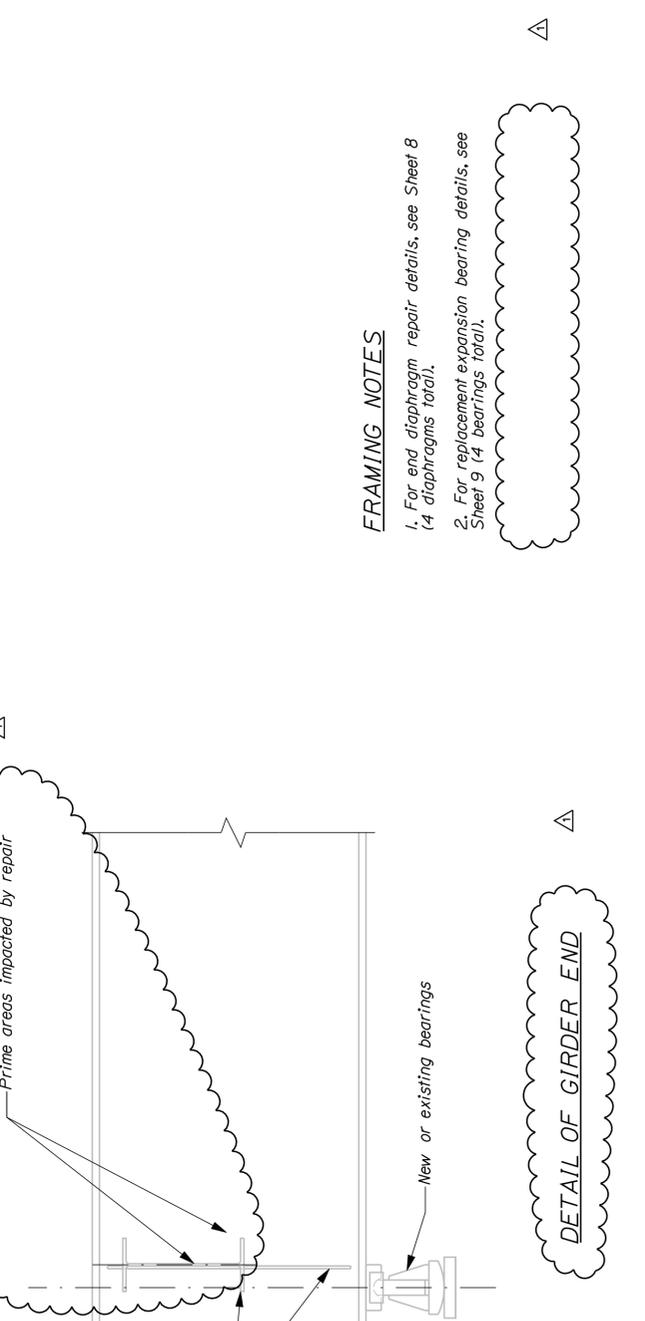
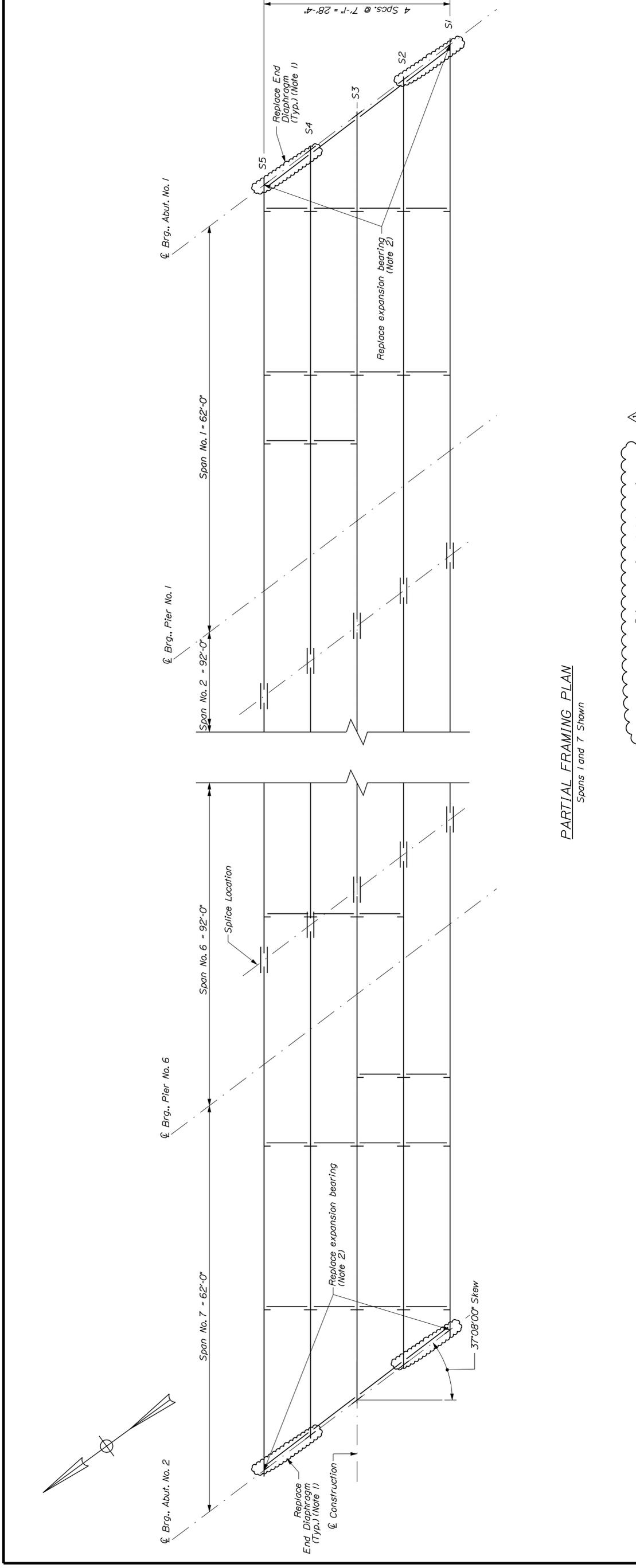
REVISIONS	DESCRIPTION
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4	REVISED

- 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 the MaineDOT provided estimated quantities, except as follows:
 - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
- The Contractor shall submit a Bridge Deck Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials to be removed as dictated by the plans. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the concrete removal pay item.
- The existing bridge deck slab and the structural steel diaphragms indicated on the plans shall be removed and become property of the contractor. The steel portions of the existing bridge are coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge deck and removal and replacement of any structural steel called for in the plans. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge deck and any required structural steel is removed, the Contractor is solely responsible for the care, custody and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. The Contractor is also solely responsible for the care, custody and control of any hazardous waste generated as a result of the surface preparation required for the installation and subsequent coating of any new steel. Payment for all labor, materials, equipment and other costs required to remove, contain and dispose of any lead-coated steel will be considered incidental to the structural steel repair - diaphragm replacement item.
- Full depth, cast in place bridge deck option will require the use of a bidwell bridge deck finishing machine. A lightweight vibratory screed will be allowed only if the Precast Deck Panel option is utilized. Lightweight vibratory screeds must meet all requirements as specified in Section 502.14 of the Standard Specifications.

DATE	BY	DESCRIPTION
10/20/12	JMA	REVISED
10/20/12	JMA	REVISED
01/20/13	JMA	REVISED

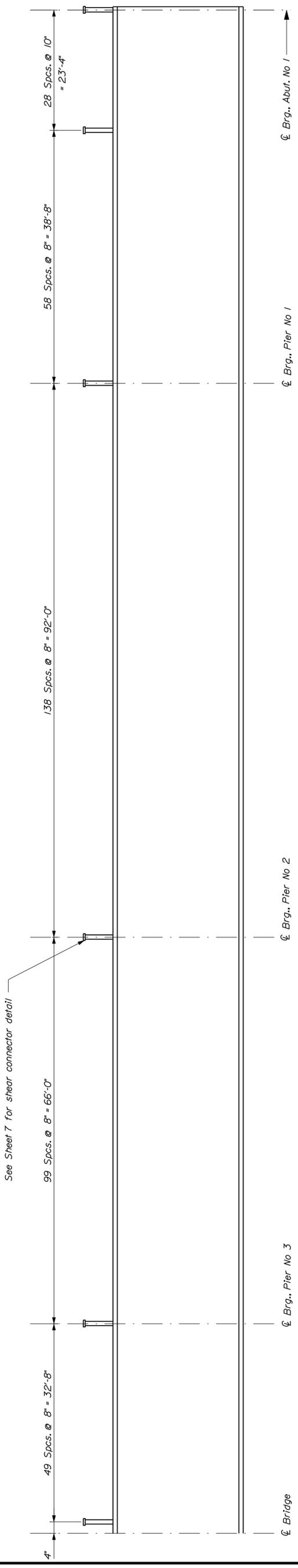
REVISIONS	DESCRIPTION
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2	REVISED
3	REVISED
4	REVISED

DATE	01/2013	REVISIONS	4
P.E. NUMBER		REVISIONS	3
SIGNATURE		REVISIONS	2
		REVISIONS	1
		DESIGN-DETAILED	JMA
		CHECKED-REVIEWED	JMA
		DESIGN-DETAILED	AJC
		BY	MVF
		DATE	10/2012
		PROJ. MANAGER	BEN CONDON
		BY	
		DATE	
		FIELD CHANGES	



FRAMING NOTES
1. For end diaphragm repair details, see Sheet 8 (4 diaphragms total).
2. For replacement expansion bearing details, see Sheet 9 (4 bearings total).

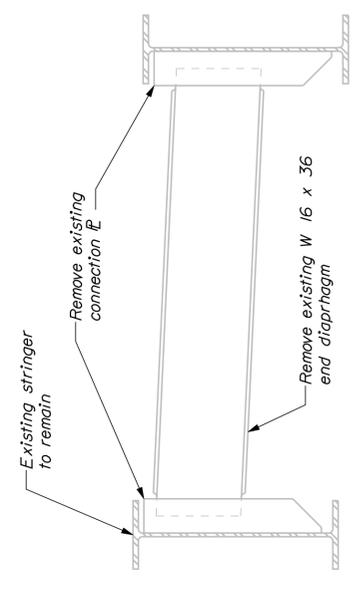
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SIGNATURE		REVISIONS 2	
		REVISIONS 1	
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		CHECKED-REVIEWED	
		DESIGN-DETAILED	
DATE	10/2012	BY	PROJ. MANAGER
			BEN CONDON



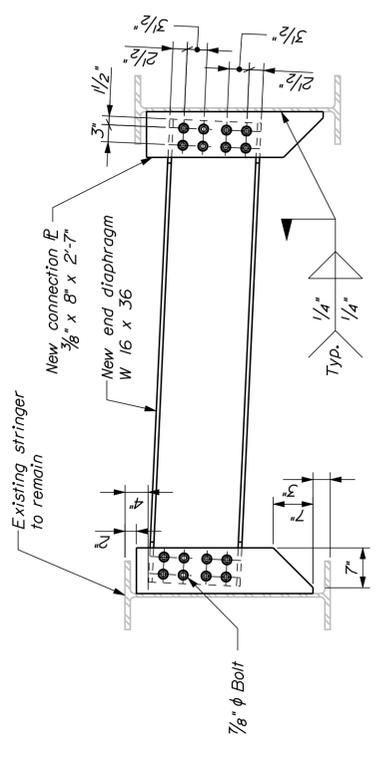
SHEAR CONNECTOR LAYOUT
Span Nos. 1-4 Shown, Span Nos. 5-7 Opposite Hand
Total Studs = 1490 Each Beam

SHEAR CONNECTOR NOTES

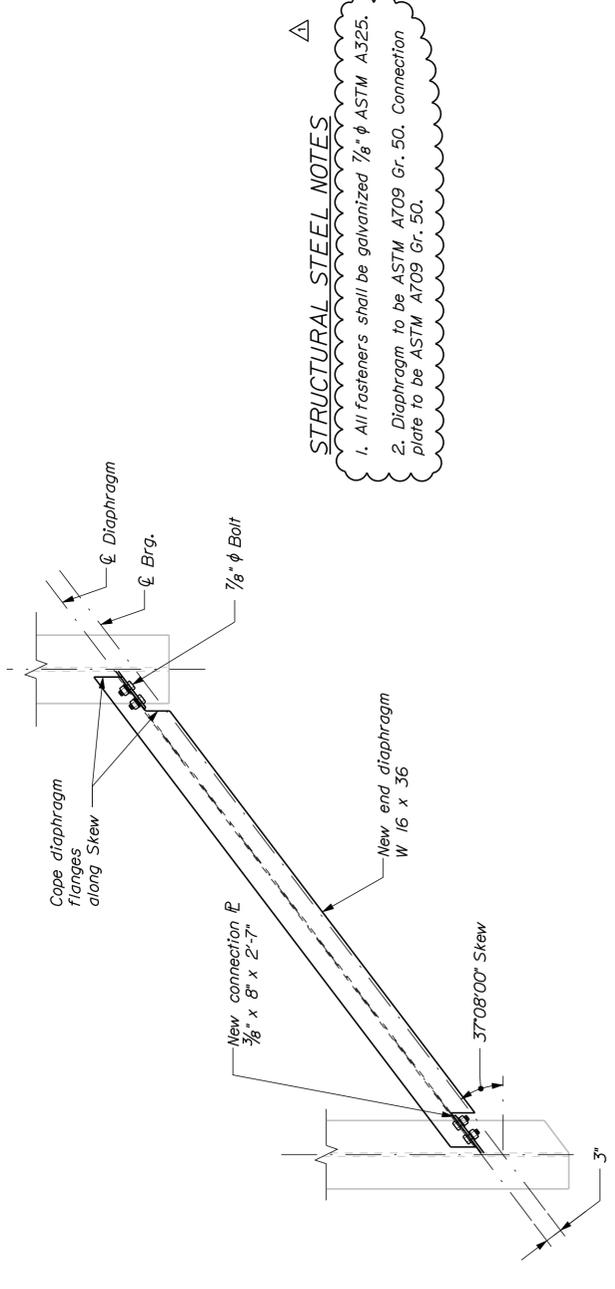
1. For shear connector detail, see Sheet 7.
2. Spacing may be adjusted at bolted field splices to avoid splice bolts.



EXISTING END DIAPHRAGM ELEVATION



REPLACEMENT END DIAPHRAGM ELEVATION



REPLACEMENT END DIAPHRAGM PLAN

STRUCTURAL STEEL NOTES

1. All fasteners shall be galvanized 7/8" φ ASTM A325.
2. Diaphragm to be ASTM A709 Gr. 50. Connection plate to be ASTM A709 Gr. 50.

DATE	10/2012
P.E. NUMBER	01/2013
SIGNATURE	JMA
DATE	10/2012
BY	MVF
DATE	10/2012
PROJ. MANAGER	BEN CONDON
CHECKED-REVIEWED	JMA
DESIGN-DETAILED	AJC
REVISIONS 2	Updated Gland Seal
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

SUPERSTRUCTURE NOTES

- The theoretical blocking used for design of the structure is 2 inches at the centerline of bearing of the abutments and piers. Refer to Standard Detail 502(02) for blocking details.
- Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
- Adjust reinforcing steel to fit around the bridge drains in a manner approved by the Resident. Do not cut transverse reinforcing bars.
- Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
- Unless the superstructure slab concrete is placed in one continuous operation, the initial placement shall begin at a simply supported end of the deck slab and shall terminate at the completion of a positive moment section. Successive placements shall proceed from the end of the previous placement, terminate at the completion of a positive moment section, and include two or more spans. Concrete in a placement shall be kept plastic one complete span behind the span being placed. A minimum of 5 days shall elapse between successive partial placements. The superstructure slab concrete placement sequence shall be approved by the Resident.
- The formwork and its supports, over the full width of the structural slab, shall remain in place until a minimum of 48 hours has elapsed after placement of the final section of the slab. After this period, removal of formwork for sections meeting the requirements for form removal of Standard Specifications Section 502, Structural Concrete, may proceed.
- Precast Deck Panels may be used in place of the full depth cast-in-place deck slab, in accordance with Special Provisions Section 502, Structural Concrete - Precast Deck Panels, and in accordance with the Standard Details.
- Payment for reinforcing steel fabricated, delivered, and placed in the cast-in-place portion of the structural concrete slab, including hooks for curbs, will be considered incidental to the appropriate Standard Specifications Section 502 pay item. Payment for longitudinal curb rebar will be covered under items 503.12 and 503.13.
- Bridge joints are to be installed as per shop drawings and adjusted for temperature.
- The gland seals to be furnished shall have minimum Movement Rating(s) as follows:
Abutment No. 1 = 4.0 inch
Abutment No. 2 = 4.0 inch

11. The Resident shall approve the gland seals prior to fabrication of the Expansion Device.
12. See Sheet 13 for Detail 'A'.

