



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

Janet T. Mills  
GOVERNOR

Bruce A. Van Note  
COMMISSIONER

March 28, 2023  
Subject: Pavement Milling, HMA Overlay,  
Ultra-Thin Bonded Wearing Course with  
Drainage & Safety Improvements  
State WINs: 025525.00 & 026998.00  
Location: **Houlton, Ludlow, New  
Limerick, Oakfield & Smyrna  
Amendment No. 1**

Dear Sir/Ms.:

Make the following changes to the bid documents:

In the bid book:

**Remove** Pages seventeen to twenty-three titled Proposal Schedule of Items dated 3/7/2023 totaling seven pages and **Replace** with the attached Proposal Schedule of Items dated 3/24/2023

**Remove** Pages Forty-seven to Fifty-Two titled Construction Notes dated March 6, 2023, totaling six pages, and **Replace** with the attached Construction Notes totaling seven pages with Revised date March 24, 2023

**Remove** page one hundred and five titled SPECIAL PROVISION SECTION 107 ( Contract time) dated September 3, 2022, and **Replace** with the attached SPECIAL PROVISION SECTION 107 (Contract Time) Revised date March 24, 2023, totaling one page

**Insert** SPECIAL PROVISION SECTION 603 PIPE CULVERTS AND STORM DRAINS (Stainless Steel Retaining Band) totaling one page

The following questions have been received:

**Question:** Could the department provide more information for item 520.244 Bridge Joint Modification Type 4. There doesn't appear to be any locations, details, special provisions, etc in the bid book.

**Response:** Please see the revised schedule of items and Construction Notes.

**Question:** What is the intent for coordination and scheduling of work around the existing southbound bridge joints contract? Will additional time be allowed in the contract due to having the work around the existing contract?

**Response:** No additional time will be allowed, please see Special Provision 105, Cooperation Between Contractors. The Contractors should be communicating schedules regularly to accommodate efficient flow of work.

Consider these changes and information prior to submitting your bid on **April 5, 2023**.

Sincerely,



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

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 025525.00

Project(s): 025525.00, 026998.00

SECTION: 1 HIGHWAY ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	202.2023 REMOVING PAVEMENT SURFACE - MEDIUM CUT DRUM	394,950.000 SY	_____	 _____	_____	 _____
0020	205.512 WIDENING OF EXISTING SHOULDER	2,150.000 SY	_____	 _____	_____	 _____
0030	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	5,780.000 T	_____	 _____	_____	 _____
0040	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	70.000 T	_____	 _____	_____	 _____
0050	403.2111 9.5 MM POLYMER MODIFIED HMA (SHIM)	7,750.000 T	_____	 _____	_____	 _____
0060	409.15 BITUMINOUS TACK COAT - APPLIED	10,260.000 G	_____	 _____	_____	 _____
0070	410.151 EMULSIFIED ASPHALT SEALCOAT, APPLIED	165,830.000 SY	_____	 _____	_____	 _____
0080	411.10 UNTREATED AGGREGATE SURFACE COURSE (TRUCK MEASURE)	60.000 CY	_____	 _____	_____	 _____
0090	424.22 ASPHALT RUBBER CRACK SEALER TYPE 2, APPLIED	108,650.000 LB	_____	 _____	_____	 _____
0100	424.3333 LOW MODULUS JOINT SEALER, APPLIED	102,690.000 LF	_____	 _____	_____	 _____
0110	424.38 CRACK REPAIR - HOT POUR MASTIC	100,000.000 LB	_____	 _____	_____	 _____

Maine Department of Transportation

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SECTION: 1 HIGHWAY ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	462.301 POLYMER MODIFIED ULTRATHIN BONDED WEARING COURSE	334,000.000 SY	_____	_____	_____	_____
0130	603.2541 INTERNAL STAINLESS STEEL RETAINING BAND 60"	1.000 EA	_____	_____	_____	_____
0140	603.55 CONCRETE PIPE TIES	7.000 GP	_____	_____	_____	_____
0150	603.7424 REMOVE & RELAY 24 INCH CONCRETE PIPE	8.000 LF	_____	_____	_____	_____
0160	603.7436 REMOVE & RELAY 36 INCH CONCRETE PIPE	8.000 LF	_____	_____	_____	_____
0170	603.746 REMOVE & RELAY 60 INCH CONCRETE PIPE	24.000 LF	_____	_____	_____	_____
0180	604.161 ALTERING CATCH BASIN	3.000 EA	_____	_____	_____	_____
0190	604.164 REBUILDING CATCH BASIN	7.000 EA	_____	_____	_____	_____
0200	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	47.000 EA	_____	_____	_____	_____
0210	606.1301 31" W-BM GR, MID-WAY SPLICE-SGL FACED	425.000 LF	_____	_____	_____	_____
0220	606.1303 31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	30.000 LF	_____	_____	_____	_____

Maine Department of Transportation

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			Dollars	Cents	Dollars	Cents
0230	606.1304 31" W-BM GR, MID-WAY SPLICE-OVER 15' RAD	75.000 LF	_____	_____	_____	_____
0240	606.1305 31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	41.000 EA	_____	_____	_____	_____
0250	606.1306 31" W-BM GR, MID-WAY SPLICE TANGENT TERMINAL	2.000 EA	_____	_____	_____	_____
0260	606.178 GUARDRAIL BEAM	600.000 LF	_____	_____	_____	_____
0270	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	5.000 EA	_____	_____	_____	_____
0280	606.3511 SNOW POLE	154.000 EA	_____	_____	_____	_____
0290	606.3521 LINEAR DELINEATION SYSTEM PANEL	240.000 EA	_____	_____	_____	_____
0300	606.356 UNDERDRAIN DELINEATOR POST	78.000 EA	_____	_____	_____	_____
0310	606.362 GUARDRAIL ADJUSTED	1,225.000 LF	_____	_____	_____	_____
0320	606.367 REPLACE UNUSABLE EXISTING GUARDRAIL POSTS	50.000 EA	_____	_____	_____	_____
0330	606.95 LOW MAINTENANCE/ SELF RESTORING CRASH CUSHION	2.000 EA	_____	_____	_____	_____

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			Dollars	Cents	Dollars	Cents
0340	608.26 CURB RAMP DETECTABLE WARNING FIELD	272.000 SF	_____	 _____	_____	 _____
0350	608.46 REGRAIDING SIDEWALK	215.000 SY	_____	 _____	_____	 _____
0360	609.31 CURB TYPE 3	220.000 LF	_____	 _____	_____	 _____
0370	609.38 RESET CURB TYPE 1	700.000 LF	_____	 _____	_____	 _____
0380	610.08 PLAIN RIPRAP	31.000 CY	_____	 _____	_____	 _____
0390	613.319 EROSION CONTROL BLANKET	7,090.000 SY	_____	 _____	_____	 _____
0400	618.13 SEEDING METHOD NUMBER 1	3.000 UN	_____	 _____	_____	 _____
0410	618.14 SEEDING METHOD NUMBER 2	143.000 UN	_____	 _____	_____	 _____
0420	619.12 MULCH	146.000 UN	_____	 _____	_____	 _____
0430	620.58 EROSION CONTROL GEOTEXTILE	110.000 SY	_____	 _____	_____	 _____
0440	627.18 12 " SOLID WHITE PAVEMENT MARKING	6,920.000 LF	_____	 _____	_____	 _____
0450	627.30 GROOVING FOR PAVEMENT MARKING	138,650.000 SF	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0460	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	56,430.000 LF	_____	 _____	_____	 _____
0470	627.745 6" WHITE OR YELLOW POLYUREA PAVEMENT MARKING LINE (RECESSED)	237,690.000 LF	_____	 _____	_____	 _____
0480	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	5,490.000 SF	_____	 _____	_____	 _____
0490	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	392,290.000 LF	_____	 _____	_____	 _____
0500	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	524,550.000 LF	_____	 _____	_____	 _____
0510	629.05 HAND LABOR, STRAIGHT TIME	160.000 HR	_____	 _____	_____	 _____
0520	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	25.000 HR	_____	 _____	_____	 _____
0530	631.11 AIR TOOL (INCLUDING OPERATOR)	25.000 HR	_____	 _____	_____	 _____
0540	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	160.000 HR	_____	 _____	_____	 _____
0550	631.133 SKID STEER (INCLUDING OPERATOR)	75.000 HR	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0560	631.14 GRADER (INCLUDING OPERATOR)	40.000 HR	_____	 _____	_____	 _____
0570	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	620.000 HR	_____	 _____	_____	 _____
0580	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	25.000 HR	_____	 _____	_____	 _____
0590	631.212 SMALL PAVEMENT GRINDER (INCLUDING OPERATOR)	65.000 HR	_____	 _____	_____	 _____
0600	631.22 FRONT END LOADER (INCLUDING OPERATOR)	40.000 HR	_____	 _____	_____	 _____
0610	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
0620	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	 _____	_____	 _____
0630	645.306 FLEXIBLE REFLECTORIZED DELINEATOR	30.000 EA	_____	 _____	_____	 _____
0640	652.30 FLASHING ARROW BOARD	7.000 EA	_____	 _____	_____	 _____
0650	652.33 DRUM	760.000 EA	_____	 _____	_____	 _____
0660	652.34 CONE	840.000 EA	_____	 _____	_____	 _____
0670	652.35 CONSTRUCTION SIGNS	4,790.000 SF	_____	 _____	_____	 _____

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0680	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	189.000 CD	_____	 _____	_____	 _____
0690	652.38 FLAGGER	2,800.000 HR	_____	 _____	_____	 _____
0700	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	9.000 EA	_____	 _____	_____	 _____
0710	652.45 AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	3.000 EA	_____	 _____	_____	 _____
0720	652.46 SEQUENTIAL FLASHING WARNING LIGHTS	60.000 EA	_____	 _____	_____	 _____
0730	652.47 TEMPORARY PORTABLE RUMBLE STRIP	3.000 GP	_____	 _____	_____	 _____
0740	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM		 LUMP SUM	_____	 _____
0750	659.10 MOBILIZATION	LUMP SUM		 LUMP SUM	_____	 _____
<b>Section: 1</b>			<b>Total:</b>		_____	 _____
			<b>Total Bid:</b>		_____	 _____

## Construction Notes

### 202.2023 Removing Pavement Surface – Medium Cut Drum

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Depth</u>	<u>Remarks</u>
1105+95	-	1109+75	1 ½"	45' +/- total width travel lane / passing lane & shoulders
1102+70	-	1105+95	1 ½"	42' +/- Total Width travel Lane / passing lane & shoulders
1025+27	-	1102+70	1 ½" ¾"	25' +/- total width travel lane passing lane
1021+94	-	1025+27	1 ½"	32' +/- total width      Bridge travel lane & 4.0'+/- shoulder / passing lane & 4.0'+/- shoulder
998+19	-	1021+94	1 ½" ¾"	25' +/- total width travel lane passing lane
993+39	-	998+19	1 ½"	32' +/- total width      Bridge travel lane & 4.0'+/- shoulder / passing lane & 4.0'+/- shoulder
955+93*	-	993+39	1 ½" ¾"	25' +/- total width travel lane passing lane
946+71	-	950+37*	1 ½" ¾"	25' +/- total width travel lane passing lane
943+14	-	946+71	1 ½"	32' +/- total Width      Bridge travel lane & 4.0'+/- shoulder / passing lane & 4.0'+/- shoulder

\* Denotes Equation

**202.2023 Removing Pavement Surface – Medium Cut Drum (Continued)**

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Depth</u>	<u>Remarks</u>
928+50	-	943+14	1 ½” ¾”	25’ +/- total width travel lane passing lane
925+27	-	928+50	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
919+04	-	925+27	1 ½” ¾”	25’ +/- total width travel lane passing lane
915+06	-	919+04	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
785+51*	-	915+06	1 ½” ¾”	25’ +/- total width travel lane passing lane
720+04*	-	785+29*	1 ½” ¾”	25’ +/- total width travel lane passing lane
433+39	-	719+74*	1 ½” ¾”	25’ +/- total width travel lane passing lane
430+11	-	433+39	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
381+02	-	430+11	1 ½” ¾”	25’ +/- total width travel lane passing lane
379+02	-	381+02	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder

\* Denotes Equation

**202.2023 Removing Pavement Surface – Medium Cut Drum (Continued)**

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Depth</u>	<u>Remarks</u>
318+90	-	379+02	1 ½” ¾”	25’ +/- total width travel lane passing lane
316+02	-	318+90	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
127+36	-	316+02	1 ½” ¾”	25’ +/- total width travel lane passing lane
122+57	-	127+36	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
108+07	-	122+57	1 ½” ¾”	25’ +/- total width travel lane passing lane
104+98	-	108+07	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
98+23*	-	104+98	1 ½” ¾”	25’ +/- total width travel lane passing lane
998+97	-	999+29*	1 ½” ¾”	25’ +/- total width travel lane passing lane
995+43	-	998+97	1 ½”	32’ +/- total width      Bridge travel lane & 4.0’ +/- shoulder / passing lane & 4.0’ +/- shoulder
977+85	-	995+43	1 ½” ¾”	25’ +/- total width travel lane passing lane

\* Denotes Equation

**Removing Pavement Surface – Medium Cut Drum (Continued)**

**Ramps**

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Depth</u>	<u>Remarks</u>
<b>Exit 302 Off Ramp</b>				
10+00		25+17+/-	1 ½”	16.0’ +/- mainline only
25+17+/-		26+17+/-	1 ½”	mill full width includes spurs
<b>Exit 302 On Ramp</b>				
10+25		12+25+/-	1 ½”	mill full width Curb to curb incl. shld
12+25		29+50+/-	1 ½”	16.0’ +/- mainline only
<b>Exit 286 Off Ramp Gore Area</b>				
102+50		105+25+/-	1 ½”	mill gore area
<b>Exit 305 On Ramp Gore Area</b>				
1082+75		1088+75+/-	1 ½”	mill gore area

**Above locations are estimates only and may be changed by the Resident.  
Shoulder areas shall be milled as directed.**

Contractor will remove pavement to the required depth including, through the exiting Asphaltic Plug Joints (APJ) maintaining existing cross slopes or as directed by the Resident. Bridges will be profiled for milling and paving operations. Mark downs shall be in place on Mainline prior to commencing milling operations. Contractor will establish centerline control points prior to removal of existing centerline. **Contractor is advised that the crack near centerline may not represent true centerline.** The centerline may require adjustment to maintain the twelve-foot travel lanes, and a four-foot passing lane shoulder widths. See Typical for ramps.

\*\*\*The Department shall assess the bridge headers and may require additional milling and shim to improve the bridge approach profile. Some header elevation adjustments may be required to include partial removal of the uppermost portion of the header, not to exceed 1”, and replaced with an approved mastic material. The removal of header material shall be paid under hand labor and appropriate equipment rental items, and mastic will be paid under the mastic contract item.

**205.512 Widening of Existing Shoulder**

This Item to be used to widen the existing shoulder at existing BCT locations. The existing Guardrail End Treatment shoulder location will be widened to allow for installation of Item 606.1305 31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL or Item 606.1306 31" W-BEAM GUARDRAIL - MID-WAY SPLICE TANGENT TERMINAL. See Standard Detail 606(11) & 606(12). Estimated quantity of 23 locations to widen the shoulder for new end treatment. See Guardrail Sheet for Widening of Existing Shoulder Locations.

**403.2081 Hot Mix Asphalt - 12.5mm Nominal Maximum Size (Polymer Modified)**

Item to be used at Houlton 302 Off ramp, Houlton 302 On ramp and Houlton 305 On ramp Gore area and Oakfield 286 Off ramp Gore Area, guardrail widening locations and as directed by the Resident.

Item to be used in areas listed under Item 205.512 and as directed by the Resident.

**403.2111 Hot Mix Asphalt, 9.5mm Nominal Maximum Size (Shimming, Polymer Modified)**

This item to be used for a leveling course, for ramps, gore areas, crossovers, possible de-lamination areas in the pavement removal areas, rutting areas, and overlay areas, and as directed by the Resident.

**410.151 Emulsified Asphalt Sealcoat Applied**

To be applied to the 4' & 10' shoulders the entire length of project and as directed. Item will be applied after Item 202.205 Rumble Strips - Shoulder have been completed. It is the intent to seal the rumble strip areas. Shoulders that are not resurfaced on ramps and mainline will be seal coated.

**424.22 Asphalt Rubber Crack Sealer Type 2, Applied**

Item will be used to treat centerline, longitudinal cracks on mainline & shoulders, including ramps, as determined, and directed by the Resident.

**424.3333 Low Modulus Joint Sealer, Applied**

Item used as depicted in Typical 4. Areas where mill depth is 1 ½", applied to centerline longitudinal joint.

**424.38 Crack Repair- Hot Pour Mastic**

Item will be used to treat centerline, longitudinal and transverse cracks on mainline & shoulders, including ramps, as determined and directed by the Resident. This Item will also be used to replace

the Asphaltic Plug Joint (APJ) material after surface paving is complete. This will be placed in conjunction with Item 631.212 Small Pavement Grinder (Including Operator).

**603.2541 Intercanal Stainless Steel Retaining Band 60”**

The internal retaining band will be used at STA 274+50 LT.

**I606.3511 Snow Pole**

The Snow-Poles will be installed at all Guardrail End treatments, terminal ends, and one post is to be installed at each approach to bridges left and right, or as directed by the Resident. Top of post will be 8’ above ground level.

**606.356 Underdrain Delineator Post**

Item will be installed at all culverts 36” and smaller or as directed by the Resident.

**627.30 Grooving for Pavement Marking**

Item shall include yellow edge line, white edge line, and white skips. Skip lines shall be ground 15 feet in length.

**627.745 6” White or Yellow Polyurea Pavement Marking Line**

Item shall include yellow edge line, white edge line, and white skips for final painting. Skip lines shall be ground 15 feet in length.

**627.78 Temporary 4” Painted Pavement Marking Line, White or Yellow**

All areas that have received the surface course shall be painted prior to being opened to traffic or immediately after the lane closure is removed. Any striping procedure besides paint, including white and yellow temporary approved raised pavement markers, shall be considered incidental.

**627.781 Temporary 6” Painted Pavement Marking Line, White or Yellow**

Item is to be used once lanes have been milled, prior to being opened to traffic or immediately after the lane closure is removed. Any striping procedure besides paint, including white and yellow temporary approved raised pavement markers, shall be considered incidental.

**629 & 631 Items**

These Items to be used for plumbing existing delineator posts, cleaning culverts, cleaning winter sand from guardrail areas and paved areas under overpasses, and removing excess material from in-slopes, in-slopes behind guardrail areas, ditching, and other work as directed. All equipment used for certain tasks and operations will be as directed by the Resident.

**631.212 Small Pavement Grinder (Including Operator)**

This Item will be used for removal of surface pavement that was placed over the existing Asphaltic Plug Joints (APJ). The location and width will be determined by the Resident.

**652.46 Sequential Flashing Warning Lights**

This Item to be used at all Lane Closure Tapers that will be in place during nighttime closures.

**652.35 Construction Signs**

Two “Road Work Next 20 Miles” signs are required as part of this project.

**SPECIAL PROVISION**  
**SECTION 107**  
**(Contract Time)**

1. The Contractor shall be allowed to work 6 days per week unless otherwise authorized by the Department or stated elsewhere in contract documents.

Except no work will be allowed on:

May 26, 2023, beginning at 6 p.m. to May 30, 2023, at 6 a.m.

June 30, 2023, beginning at 6 p.m. to July 5, 2023, at 6 a.m.

September 1, 2023, beginning at 6 p.m. to September 5, 2023, at 6 a.m.

2. Ramps may be closed Monday night through Friday morning between the hours of 7 pm to 6 am with 72 hours' notice. Work on ramps may continue after these hours with shoulder closures only. The contractor shall notify local emergency personnel resources of closure dates and times. Under no circumstances will two adjacent on or off ramps be closed simultaneously. Message Boards will be in-place 72 hours prior to ramp closure with a message approved by the Department.
3. The Northbound travel lane milling, and Ultra-Thin Bonded Wearing Course shall be completed no later than June 30, 2023.
4. Any circumstance outside of these time frames, the Contractor shall be charged Supplemental Liquidated Damages as outlined in Special Provision 107 (Supplemental Liquidated Damages).

SPECIAL PROVISION  
SECTION 603  
PIPE CULVERTS AND STORM DRAINS  
(Stainless Steel Retaining Band)

Description This work shall consist of the fabrication, supplying and installation of a internal retaining band for reinforced concrete pipe culvert.

Materials Internal stainless steel retaining bands shall conform to ASTM A240 and one of the following types: Type 304, Type 316/316L, and AL-6XN.

Internal stainless steel retaining band types shall be as listed below or an approved equal:

- HydraTite, manufactured by Hydra Tech Engineered Products
- Weko-Seal manufactured by Miller Pipeline

The Contractor shall submit their product they intend to use for Department review and approval.

CONSTRUCTION REQUIREMENTS

The Contractor shall be responsible for dewatering, cleaning and inspecting the existing host structure, determining the location of and removing obstructions that may prevent proper installation of the seal.

The joint area of where the actual "lip seals" make contact with the pipe must be prepared to a finish which will allow the "lip seals" to interface consistently with the pipe and provide a permanent seal. All high/low surface imperfections running axially through or part way through the sealing surface must be removed before installation of seals. Any joint gaps, deep imperfections, or low areas must be properly filled with approved concrete repair material and rendered smooth to suite the prepared surface of the joint area as per manufacture recommendations.

The Contractor shall install and test seal for proper installation according to manufacture procedures and guidelines.

Method of Measurement The internal steel retaining bands will be measured for payment by each unit installed, complete in place and accepted.

Basis of Payment The accepted quantity of internal steel retaining bands will be paid for at the contract unit price each for the type and size specified, complete in place, including studs, bolts, pads, gaskets, and all incidentals necessary to complete the work.

Payment will be under:

<u>Pay Item</u>	<u>Pay Unit</u>
603.2541 Internal Stainless Steel Retaining Band 60"	Each