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SECTION 105 - CONTROL OF THE WORK

- 1. 105.03 PLANS AND WORKING DRAWINGS, part (b) Working Drawings, subpart (4) List of Working Drawings, is hereby modified by deleting the phrase "Roadway, Traffic, and Safety Engineer" and replacing it with the phrase "Construction Engineer" in the twenty-third row (beginning "641").
- 2. 105.14 SUNDAY AND HOLIDAY WORK, part (b) Holidays, is hereby corrected by deleting punctuation "," at the end of the paragraph and replacing it with punctuation ".".
- 3. 105.26 OPENING WASTE, BORROW, AND STAGING AREAS, part (f), is hereby corrected by deleting punctuation "." at the end of the paragraph.

SECTION 109 - MEASUREMENT AND PAYMENT

4. SECTION 109 - MEASURMENT AND PAYMENT, is hereby corrected by deleting pages 1-141 and 1-142 in their entirety.

SECTION 203 - EXCAVATION AND EMBANKMENTS

- 5. 203.01 DESCRIPTION, is hereby modified by adding the phrase "performing test borings for the purpose of determining areas of roadway and embankment subsurface voids;" after the phrase "trimming and shaping of slopes;" in the first sentence of the first paragraph.
- 6. $\underline{203.01}$ DESCRIPTION, is hereby further modified by adding the following new part (1):
 - (1) $\underline{\text{Test Borings}}$. Test Borings shall consist of an investigative and planned approach to determining areas of roadway and embankment subsurface voids and repairing bored areas.
- 7. <u>203.02 MATERIALS</u>, is hereby modified by adding the following to the Subsection listing:

PVC Plastic Pipe......710.06

8. $\underline{203.02}$ MATERIALS, is hereby further modified by adding the following paragraphs:

Concrete for backfilling subsurface voids shall meet the requirements of Controlled Density (Flowable) Fill of Section 541.

Bituminous concrete pavement shall conform to the requirements of Section 406 or 490, as applicable for the Contract, with the exception that the mix design submittal and plant inspection requirements set forth in Section 406 or 490 will not apply.

9. <u>203.03 GENERAL CONSTRUCTION REQUIREMENTS</u>, is hereby modified by adding the following as the eighth paragraph:

Prior to the construction of Test Borings and the placement of Controlled Density (Flowable) Fill, the Contractor shall submit to the Engineer site-specific plans, detailing the schedule of work (for these two items), type and location of drilling, sleeve installation, pumping system, confirmatory boring operation, method of filling bore hole (with or without voids being encountered), and repair of the roadway section (sand, gravel, and pavement).

- 10. <u>203.11 EMBANKMENTS</u>, is hereby modified by adding the following new part (e):
 - (e) $\underline{\text{Test Borings}}$. Test borings shall be performed at the approximate locations indicated in the Plans and/or as directed by the Engineer.

When used adjacent to culverts, test borings shall extend to a depth equal to the bottom of the culvert using casing advanced drilling methods. Alternate drilling equipment that provides a suitably clean, open hole may be submitted to the Engineer for approval.

If void(s) are encountered, Controlled Density (Flowable) Fill shall be placed to completely fill the void(s). Confirmatory borings shall be performed in these locations as directed by the Engineer.

The roadway surface at boring hole locations shall be backfilled and then patched using Bituminous Concrete Pavement.

- 11. <u>203.13 METHOD OF MEASUREMENT</u>, is hereby modified by adding the following new part (e):
 - (e) <u>Test Borings</u>. The quantity of Test Borings to be measured for payment will be the number of meters (linear feet) of test boring performed in the complete and accepted work.
- 12. <u>203.14 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase "and Test Borings" after the phrase "Shoulder Berm Removal" in the first sentence of the first paragraph.
- 13. 203.14 BASIS OF PAYMENT, is hereby further modified by adding the phrase "submitting site-specific plans as required, performing test borings, installing sleeves, backfilling, patching with bituminous concrete pavement," after the phrase "work specified," in the second sentence of the first paragraph.
- 14. $\underline{\text{203.14 BASIS OF PAYMENT}}$, is hereby corrected by adding a period at the end of the sixth paragraph.

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15. <u>203.14 BASIS OF PAYMENT</u>, is hereby still further modified by adding the following paragraph and pay item:

Filling of subsurface voids encountered in performing Test Borings will be paid for under Contract item 541.45.

Payment will be made under:

Pay Item

Pay Unit

203.45 Test Borings

Meter (Linear Foot)

SECTION 406 - MARSHALL BITUMINOUS CONCRETE PAVEMENT

16. 406.03 COMPOSITION OF MIXTURE, part (f) Boxed Samples, is hereby corrected by adding the word "Engineer" to the end of the second (last) sentence.

SECTION 507 - REINFORCING STEEL

- 17. $\underline{507.01}$ DESCRIPTION, is hereby modified by adding the phrase "of the level specified" after the phrase "bar reinforcement".
- 18. <u>507.01 DESCRIPTION</u>, is hereby further modified by adding the following paragraphs:

Levels and associated types of reinforcing steel are specified as follows:

- (a) Level I (Limited Corrosion Resistance). Level I reinforcing includes plain, low alloy, and epoxy coated reinforcing steel.
- (b) <u>Level II (Improved Corrosion Resistance)</u>. Level II reinforcing includes stainless clad and dual-coated reinforcing steel.
- (c) <u>Level III (Exceptional Corrosion Resistance)</u>. Level III reinforcing includes solid stainless reinforcing steel.

The location, level, and when specified, type of reinforcing shall be as indicated in the Plans. Reinforcing supplied shall meet the requirements of the level specified or any higher level. Only one type of reinforcing steel shall be used for each level for the Contract work, unless permitted in writing by the Engineer.

- 19. <u>507.02 MATERIALS</u>, is hereby modified by deleting the sixth (final) entry in the Subsection listing.
- 20. <u>507.03 FABRICATION AND SHIPMENT</u>, part (a) <u>General</u>, is hereby modified by adding the phrase "deformed bar" after the phrase "shall be" in the first paragraph.
- 21. <u>507.03 FABRICATION AND SHIPMENT</u>, part (a) <u>General</u>, is hereby corrected by deleting punctuation ".." and replacing it with punctuation "." at the end of the first paragraph.

22. <u>507.04 PROTECTION OF MATERIAL</u>, is hereby modified by adding the following as the second sentence in the first paragraph:

When multiple levels of reinforcing steel are used on a project, they shall be stored separately, including during transport in order that there is no direct contact between the bars.

- 23. 507.04 PROTECTION OF MATERIAL, is hereby further modified by deleting the phrase "The epoxy coating" and replacing it with the word "Coatings" in the third sentence of the third paragraph.
- 24. 507.04 PROTECTION OF MATERIAL, is hereby still further modified by deleting the phrase "as required for damaged areas" and replacing it with the phrase "per the coating manufacturer's recommendations and to the satisfaction of the Engineer" in the third sentence of the fifth (last) paragraph.
- 25. <u>507.04 PROTECTION OF MATERIAL</u>, is hereby still further modified by adding the following paragraph:

All ends of Level II reinforcement where the mild steel core is exposed shall be capped in accordance with one of the following:

- (a) Heat-shrink cap applied in accordance with the cap manufacturer's instructions.
- (b) Neoprene cap adhered with silicone or epoxy sealant.
- (c) Stainless steel cap epoxied in place.
- (d) Stainless steel seal weld.
- 26. 507.05 PLACING AND FASTENING REINFORCING STEEL, is hereby modified by deleting the sixth paragraph in its entirety and replacing it with the following:

Tie wires and supports used for installation of reinforcement shall be composed of the same material as any steel being contacted or shall be nonmetallic or coated with a dielectric (electrically insulated) material to prevent reactions between dissimilar metals. When forms are to be removed in their entirety, uncoated steel chairs equipped with snug-fitting, high-density, polyethylene tips which provide 3 mm (1/4 inch) clearance between the metal and any exposed surface may be used.

- 27. 507.10 METHOD OF MEASUREMENT, is hereby modified by deleting the phrase ", Epoxy Coated Reinforcing Steel, and Galvanized Reinforcing Steel" and replacing it with the phrase "of the type and size specified" in the first paragraph.
- 28. 507.10 METHOD OF MEASUREMENT, is hereby further modified by adding the phrase "of the type specified" at the end of the second paragraph (beginning "The quantity of Drilling and Grouting Dowels...").

29. <u>507.11 BASIS OF PAYMENT</u>, is hereby modified by deleting the following pay items:

Pay Item	Pay Unit
507.15 Reinforcing Steel	Kilogram (Pound)
507.17 Epoxy Coated Reinforcing Steel	Kilogram (Pound)
507.18 Galvanized Reinforcing Steel	Kilogram (Pound)

30. <u>507.11 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay items:

Pay Item		Pay Unit
507.11 Reinforcing Sto	eel, Level I	Kilogram (Pound)
507.12 Reinforcing St	eel, Level II	Kilogram (Pound)
507.13 Reinforcing St	eel, Level III	Kilogram (Pound)

SECTION 516 - EXPANSION DEVICES

- 31. <u>516.01 DESCRIPTION</u>, is hereby modified by adding the phrase ", or partially removing and modifying," after the word "installing".
- 32. <u>516.05A PARTIAL REMOVAL AND MODIFICATION</u>, is hereby made a new Subsection of the Standard Specifications as follows:

516.05A PARTIAL REMOVAL AND MODIFICATION. The Contractor shall partially remove and modify the existing bridge joint at the locations indicated in the Plans and as directed by the Engineer.

Steel for new joint plates shall meet the requirements of Subsection 714.02.

The Contractor shall remove and dispose of existing joint plates, drain troughs, and associated hardware.

The Contractor shall grind existing steel plates and/or shoulder concrete to the configuration shown on the Plans. The final surface shall be to the satisfaction of the Engineer.

33. $\underline{\text{516.06}}$ METHOD OF MEASUREMENT, is hereby modified by adding the following paragraph:

The quantity of Partial Removal and Modification of Bridge Joint to be measured for payment will be the number of meters (linear feet) of bridge joint removed and modified in the complete and accepted work, measured along its centerline.

34. <u>516.07 BASIS OF PAYMENT</u>, is hereby modified by adding the following paragraph and pay item:

The accepted quantity of Partial Removal and Modification of Bridge Joint will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for partially removing and modifying the existing joint as specified and as detailed in the Plans, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

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Payment will be made under:

Pay Item

Pay Unit

516.20 Partial Removal and Modification of Meter (Linear Foot) Bridge Joint

SECTION 525 - BRIDGE RAILINGS

525.02 MATERIALS, is hereby modified by adding the following as the 35. third entry in the Subsection listing:

525.06 INSTALLATION, part (a) General, is hereby modified by adding the 36. following as the sixth (last) paragraph:

Concrete railing shall receive an aesthetic finish in accordance with Subsection 501.16. Cracks in concrete railing shall be repaired by a method approved by the Engineer. Cracks in concrete greater than 0.25 mm (0.01 inch) may be cause for rejection.

- $\underline{\text{525.08 BASIS OF PAYMENT}}$, is hereby modified by adding the phrase "for 37. furnishing all forms, joint filler, admixtures, trial batches, and connection plates for approach railing terminal connectors; for satisfactory completion of any necessary repairs, surface finishing, and curing;" after the phrase "for all work necessary for verifying and adjusting post height and/or bolt spacing of existing posts;" in the second (last) sentence of the third paragraph.
- 38. 525.08 BASIS OF PAYMENT, is hereby further modified by adding the following pay item:

Pay Item

Pay Unit

525.45 Bridge Railing, Galvanized Steel Tubing/ Concrete Combination

Meter (Linear Foot)

SECTION 531 - BRIDGE BEARING DEVICES

531.04 FABRICATION, part (b) Surface Protection, is hereby corrected by 39. deleting punctuation ",." at the end of the paragraph and replacing it with punctuation ".".

SECTION 540 - PRECAST CONCRETE

- 540.02 MATERIALS, is hereby modified by deleting the fourteenth entry 40. (beginning "Coated Bar Reinforcement...") in the Subsection listing.
- 540.02 MATERIALS, is hereby further modified by adding the following as 41. the twenty-eighth entry in the Subsection listing:

Sheet Membrane Waterproofing, Preformed Sheet.......726.11

 $\underline{540.07}$ FABRICATION, part (e) <u>Placing Concrete</u>, is hereby modified by deleting the phrase "done with care" and replacing it with the phrase 42. "performed in accordance with Subsection 501.10(f)" in the third (last) sentence.

- 43. $\underline{540.10 \text{ INSTALLATION}}$, is hereby modified by adding the following new part (c):
 - (c) Sheet Membrane Waterproofing. A reinforced asphalt, synthetic resin, or coal-tar based preformed sheet membrane shall be placed over the joints of precast concrete units in accordance with the Contract Documents. All work performed shall be in accordance with the manufacturer's recommendations.

Material for membrane shall meet the requirements of Subsection 726.11.

Waterproofing shall not be performed in wet weather or when the temperature is below 5°C (40°F), without the authorization of the Engineer.

The concrete surfaces that are to be waterproofed shall be reasonably smooth and free from projections or holes and shall be cleaned of dust and loose material. The surfaces shall be visibly dry prior to and during application of the membrane system.

44. <u>540.14 BASIS OF PAYMENT</u>, is hereby modified by adding the following paragraph:

Furnishing and placing preformed sheet membrane waterproofing, including primer, mastic, polyurethane membrane sealant, and surface preparation, is considered incidental to the work for Precast Concrete Structure.

SECTION 541 - STRUCTURAL CONCRETE

45. <u>541.03 CLASSIFICATION AND PROPORTIONING</u>, <u>TABLE 541.03A (Metric)</u> is hereby modified by adding the following as the eighth (bottom) row with the included footnote:

Controlled					-		
Density					704.01		
(Flowable)	To be		125		(Fine	90	
Fill	designed***	0.85	min.	15 ± 5	Aġgregate)	max.	·

- *** A mineral admixture is required to replace a portion of the cement.
- 46. <u>541.03 CLASSIFICATION AND PROPORTIONING</u>, <u>TABLE 541.03A (English)</u> is hereby modified by adding the following as the eighth (bottom) row:

Controlled							
Density	To be				704.01		
(Flowable)	designed**		6		(Fine	125	
Fill	*	0.85	min.	15 ± 5	Aggregate)	max.	

- *** A mineral admixture is required to replace a portion of the cement.
- 47. <u>541.10 PLACING CONCRETE</u>, part (c) <u>Placement Limitations</u>, is hereby modified by adding the following as the twelfth (last) paragraph:

Flowable fill shall be applied to voids and other locations as specified in the Contract Documents and as directed by the Engineer. Flowable fill shall be able to completely fill the existing voids.

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- 48. <u>541.19 METHOD OF MEASUREMENT</u>, is hereby modified by deleting the phrase "or LW" and replacing it with the phrase "LW, or Flowable Fill" in the first sentence of the first paragraph.
- 49. <u>541.20 BASIS OF PAYMENT</u>, is hereby modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

541.45 Controlled Density (Flowable) Fill

Cubic Meter (Cubic Yard)

SECTION 580 - STRUCTURAL CONCRETE REPAIR

50. $\underline{580.02}$ MATERIALS, is hereby modified by adding the following to the Subsection listing:

Polymer Concrete Repair Material.....780.05

51. <u>580.03 PROPORTIONING AND MIXING</u>, is hereby modified by deleting the last sentence of the first paragraph in its entirety and replacing it with the following:

The product shall not be extended with sand or gravel, except for Rapid Setting Concrete Repair Material with Coarse Aggregate and Polymer Concrete Repair Material when mixed with approved aggregates in conformance with the manufacturer's recommendations.

- 52. 580.04 SURFACE PREPARATION FOR REPAIRS, OVERLAYS AND MEMBRANES, is hereby modified by adding the word "abrasive" after the phrase "shall be" and before the phrase "blast cleaned" in the first sentence of the third paragraph.
- 53. 580.04 SURFACE PREPARATION FOR REPAIRS, OVERLAYS AND MEMBRANES, is hereby further modified by adding the phrase ", or Polymer Concrete Repair Material," after the word "Aggregate" in the sixth paragraph.
- 54. 580.08 METHOD OF MEASUREMENT, is hereby modified by deleting the phrase "and not for new patches, which will be the responsibility of the Contractor" and replacing it with the phrase ", with no deductions made for areas of new patches" in the second sentence of the ninth paragraph.
- 55. <u>580.08 METHOD OF MEASUREMENT</u>, is hereby further modified by adding the phrase ", and Polymer Concrete Repair Material" after the word "Aggregate" in the first sentence of the tenth paragraph.
- 56. <u>580.09 BASIS OF PAYMENT</u>, is hereby modified by adding the phrase ", and Polymer Concrete Repair Material" after the word "Aggregate" in the seventh paragraph.
- 57. <u>580.09 BASIS OF PAYMENT</u>, is hereby further modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

580.21 Polymer Concrete Repair Material

Cubic Meter (Cubic Yard)

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SECTION 608 - EQUIPMENT RENTAL

- 58. <u>608.02 GENERAL REQUIREMENTS</u>, is hereby modified by adding the following new part (i):
 - (i) Truck-Mounted Attenuator, Advanced Warning Vehicle/Protection Vehicle (AWV/PV). Truck-Mounted Attenuator, AWV/PV shall consist of a Truck-Mounted Attenuator meeting the requirements of Subsection 608.02(h) and be equipped with a Changeable Message Sign in accordance with the MUTCD. The Changeable Message Sign shall be mounted so as to be clearly visible to the traveling public and shall be capable of being controlled from inside the cab of the vehicle, with capable controls including but not limited to turning the sign on and off, changing between preset messages, and inserting new messages when approved by the Engineer. Phases of signing shall have the ability to change automatically when required.
- 59. 608.04 BASIS OF PAYMENT, is hereby modified by changing the word "item" to "items" and by adding the phrase "and Truck-Mounted Attenuator, AWV/PV" after the phrase "Truck-Mounted Attenuator" in the second (last) paragraph.
- 60. $\underline{608.04}$ BASIS OF PAYMENT, is hereby further modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

608.50 Truck-Mounted Attenuator, AWV/PV

Hour

SECTION 613 - STONE FILL, RIPRAP, AND SLOPE PAVING

61. <u>613.02 MATERIALS</u>, is hereby modified by adding the following to the Subsection listing:

Rock Fill for Gabions 706.06 Gabion Baskets 712.04

- 62. $\underline{613.04 \text{ PLACING}}$, is hereby modified by adding the following new part (d):
 - (d) Rock Fill for Gabions. The furnishing and installing of gabion baskets shall be performed in accordance with the manufacturer's recommendations.

The Contractor should expect to perform some manual stone placement to minimize voids and to create a neat, flat vertical surface of gabions.

 $\underline{613.05}$ METHOD OF MEASUREMENT, is hereby modified by adding the following paragraph:

The quantity of Gabion Wall to be measured for payment will be the number of cubic meters (cubic yards) of Rock Fill for Gabions placed in the complete and accepted work.

- 64. 613.06 BASIS OF PAYMENT, is hereby modified by adding the phrase "and Gabion Wall" after the word "specified" in the first sentence of the first paragraph.
- 65. 613.06 BASIS OF PAYMENT, is hereby modified by adding the phrase ", including gabion baskets," after the word "material" in the third (last) sentence of the first paragraph.
- 66. 613.06 BASIS OF PAYMENT, is hereby still further modified by adding the phrase "or rock" after the word "stone" in the first sentence of the second paragraph.
- 67. 613.06 BASIS OF PAYMENT, is hereby still further modified by adding the following paragraph:

Geotextile fabric and bedding material for Gabion Wall will be paid for under the appropriate Contract items.

68. 613.06 BASIS OF PAYMENT, is hereby still further modified by adding the following pay item:

Payment will be made under:

Pay Item

Pay Unit

613.25 Gabion Wall

Cubic Meter (Cubic Yard)

SECTION 616 - CURBS AND GUTTERS

69. 616.05 REPOINTING GRANITE BRIDGE CURB, is hereby made a new Subsection of the Standard Specifications as follows:

616.05 REPOINTING GRANITE BRIDGE CURB. The existing mortar bed and vertical curb joints shall be repointed as shown on the Plans. Mortar shall meet the requirements of Subsection 707.01.

70. 616.14 METHOD OF MEASUREMENT, is hereby modified by adding the following as the second paragraph:

The quantity of Repointing Granite Bridge Curb to be measured for payment will be the number of liters (gallons) of mortar applied in the completed and accepted work, measured to the nearest liter (gallon).

- 71. 616.14 METHOD OF MEASUREMENT, is hereby corrected by changing the word "portland" to "Portland" in the fifth (last) paragraph.
- 72. 616.15 BASIS OF PAYMENT, is hereby modified by adding the following as the second paragraph:

The accepted quantity of Repointing Granite Bridge Curb will be paid for at the Contract unit price per liter (gallon). Payment will be full compensation for furnishing, transporting, handling, and placing the material specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

73. 616.15 BASIS OF PAYMENT, is hereby corrected by changing the word "portland" to "Portland" in the fourth paragraph.

616.15 BASIS OF PAYMENT, is hereby further modified by adding the 74. following pay item:

Payment will be made under:

Pay Item

Pay Unit

616.225 Repointing Granite Bridge Curb

Liter (Gallon)

SECTION 621 - TRAFFIC BARRIERS

- 621.01 DESCRIPTION, is hereby modified by adding the phrase 75. "repairing," after the phrase "removing,".
- 621.02 MATERIALS, is hereby modified by adding the following as the 76. fifth entry in the Subsection listing:

Wire Rope or Cable.....713.03

- 621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GURADRAIL OR 77. GUIDE POSTS, is hereby modified by deleting the phrase "post assemblies and panel units" and replacing it with the phrase "guardrail components" in the second sentence of the first paragraph.
- 621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GUARDRAIL OR 78. GUIDE POSTS, is hereby further modified by deleting the phrase "post assembly replacement or guardrail beam replacement occur" and replacing it with the phrase "guardrail component replacement occurs" in the fourth paragraph.
- 621.13 REPLACEMENT, ADJUSTMENT, REMOVAL, AND DISPOSAL OF GURADRAIL OR 79. GUIDE POSTS, is hereby still further modified by adding the following as the sixth and seventh paragraphs:

Offset blocks designated for replacement shall be replaced in-kind. Materials shall be in conformance with the applicable requirements of Subsection 728.01 for either wood, steel, or alternative blockouts.

Cable quardrail repair shall be performed in accordance with VTrans Standard Drawing G-6 and as directed by the Engineer.

621.14 METHOD OF MEASUREMENT, is hereby modified by adding the 80. following as the fourth and fifth paragraphs of the Subsection text:

The quantities of Cable Guardrail J-Bolt, Galvanized and Cable Guardrail Splice Unit to be measured for payment will be the number of units installed in the complete and accepted work.

The quantity of Replacement of Guardrail Cable to be measured for payment will be the number of meters (linear feet) installed in the complete and accepted work.

621.14 METHOD OF MEASUREMENT, is hereby further modified by adding the 81. following as the eighth paragraph of the Subsection text:

The quantities of Steel Beam Guardrail Delineator and Steel Beam Guardrail Offset Block to be measured for payment will be the number of each component replaced in the complete and accepted work.

82. <u>621.15 BASIS OF PAYMENT</u>, is hereby modified by adding the following as the second, third, and fourth paragraphs of the Subsection text:

The accepted quantities of Cable Guardrail J-Bolt, Galvanized and Cable Guardrail Splice Unit will be paid for at the Contract unit price for each.

The accepted quantity of Replacement of Cable Guardrail will be paid for at the Contract unit price per meter (linear foot).

The accepted quantities of Steel Beam Guardrail Delineator and Steel Beam Guardrail Offset Block will be paid for at the Contract unit price for each.

- 83. 621.15 BASIS OF PAYMENT, is hereby further modified by adding the phrase "removing and disposing of damaged guardrail component(s)," after the phrase "specified," in the first sentence of the tenth paragraph.
- 84. <u>621.15 BASIS OF PAYMENT</u>, is hereby still further modified by adding the following pay items:

Payment will be made under:

Pay Item	Pay Unit
621.173 Cable Guardrail J-Bolt, Galvanized 621.174 Cable Guardrail Splice Unit	Each Each
621.175 Replacement of Guardrail Cable	Meter (Linear Foot)
621.218 Steel Beam Guardrail Delineator	Each
621.219 Steel Beam Guardrail Offset Block	Each
621.70 Guardrail Approach Section, Galvanized	Each
Type I	
621.71 Guardrail Approach Section, Galvanized	Each
Type II	
621.726 Guardrail Approach Section, Galvanized	Each
3 Rail Box Beam w/Curb	
621.735 Guardrail Approach Section, Steel Beam	
621.736 Guardrail Approach Section, Steel Beam	Each
w/2.4 m (8 feet) Posts	
621.737 Guardrail Approach Section, Galvanized	Each
HD Steel Beam	
621.738 Guardrail Approach Section, Galvanized	Each
HD Steel Beam $w/2.4$ m (8 feet) Posts	
621.748 Guardrail Approach Section to Concrete	Each
Combination Bridge Railing, TL-3	

SECTION 677 - OVERHEAD TRAFFIC SIGN SUPPORTS

- 85. 677.01 DESCRIPTION, is hereby modified by adding the phrase "and removing and disposing of existing overhead traffic sign supports," after the phrase "supports,".
- 86. 677.03 GENERAL, is hereby modified by adding the following paragraph:

Where existing overhead traffic sign supports are to be removed, the Contractor shall remove and dispose of the entire sign assembly, including concrete footings, to a depth of 450 mm (18 inches) below existing grade. Areas of ground disturbance shall be restored to the satisfaction of the Engineer.

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87. 677.05 METHOD OF MEASUREMENT, is hereby modified by adding the following paragraph:

The quantity of Remove Existing Overhead Sign Assembly of the type specified to be measured for payment will be the number of each assembly removed in the complete and accepted work.

677.06 BASIS OF PAYMENT, is hereby modified by adding the following 88. paragraphs and pay items:

The accepted quantity of Remove Existing Overhead Sign Assembly of the type specified will be paid for at the Contract unit price per each. Payment will be full compensation for removing and disposing of assembly components, including concrete footings; for performing any excavation necessary; for restoring areas of ground disturbance; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Costs associated with providing traffic control and/or flaggers for performing the work will be paid under the appropriate Contract item(s).

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
677.30 Remove Existing Overhea	d Sign Assembly,	Each
Cantilever		
677.35 Remove Existing Overhea	ıd Sign Assembly,	Each
Multi-Support		

SECTION 678 - TRAFFIC CONTROL SIGNALS

- 89. 678.01 DESCRIPTION, is hereby modified by adding the phrase ", and removing existing traffic control systems" after the word "system" in the first paragraph.
- 90. 678.02 MATERIALS, is hereby corrected by deleting "convers" and replacing it with the word "covers" in the second sentence of the last paragraph of the Subsection text.
- 91. 678.11 INSTALLATION, sixteenth paragraph, part (a), is hereby modified by adding the following as the third sentence:

The Contractor shall remove any equipment to be salvaged or reused in such a manner that the equipment is not damaged.

678.13 METHOD OF MEASUREMENT, is hereby modified by adding the 92. following paragraph:

The quantity of Removal of Existing Traffic Control Signal System to be measured for payment will be for each traffic control signal system removed in the complete and accepted work.

678.14 BASIS OF PAYMENT, is hereby modified by adding the phrase "all 93. removal, disposal, and salvage and/or reuse of existing system equipment and components," after the phrase "Electrical Wiring," in the second sentence of the first paragraph.

Each

94. 678.14 BASIS OF PAYMENT, is hereby further modified by adding the following paragraph and pay item:

The accepted quantity of Removal of Existing Traffic Control Signal System will be paid for at the Contract unit price per each. Payment will be full compensation for removing and handling the existing traffic control signal system components as specified in the Contract Documents and for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item Pay Unit

678.45 Removal of Existing Traffic Control Signal
System

SECTION 700 GENERAL

95. 700.01 GENERAL STATEMENT, is hereby corrected by deleting punctuation ".,." at the end of the first sentence of the fourth paragraph and replacing it with punctuation ".".

SECTION 713 - REINFORCING STEEL, WELDED WIRE REINFORCEMENT, AND REINFORCING STRAND

- 96. 713.01 BAR REINFORCEMENT, is hereby modified by deleting the phrase "conforming to AASHTO M 31M/M 31, including supplementary requirements" and replacing it with the phrase ", unless otherwise specified in the Contract Documents" in the first paragraph.
- 97. $\overline{713.01}$ BAR REINFORCEMENT, is hereby further modified by adding the following new parts (a)-(f) and associated paragraphs:
 - (a) <u>Plain Reinforcing Steel</u>. Plain reinforcing steel shall conform to AASHTO M 31M/M 31, including supplementary requirements.
 - (b) <u>Low Alloy Reinforcing Steel</u>. Low alloy reinforcing steel shall conform to ASTM A 706/A 706M.
 - (c) Epoxy Coated Reinforcing Steel. Epoxy coated reinforcing steel shall have an electrostatically applied organic epoxy protective coating, which has been prequalified, fabricated, tested, and installed in accordance with AASHTO M 284M/M 284 or ASTM A 884.
 - (d) <u>Stainless Clad Reinforcing Steel</u>. Stainless clad reinforcing steel shall meet the requirements of AASHTO M 329M/M 329.
 - (e) <u>Dual-Coated Reinforcing Steel</u>. Dual-coated reinforcing steel shall meet the requirements of ASTM A 1055/A 1055M.
 - (f) Solid Stainless Reinforcing Steel. Solid stainless reinforcing steel shall meet the requirements of ASTM A 955/A 955M with one of the following UNS designations: S24100, S30400, S31603, S31653, S32101, S32201, S32205, or S32304. Different designations shall not be mixed within the same project.

Where no core steel requirements are specified in the above specifications, the steel core of the bar reinforcement shall meet the requirements of plain reinforcing steel.

<u>Certification</u>. A Type D Certification shall be furnished in accordance with Subsection 700.02. Certification for Epoxy Coated Reinforcing Steel shall include the coating and coating process.

98. <u>713.07 COATED BAR REINFORCEMENT</u>, is hereby modified by being deleted in its entirety.

SECTION 714 - STRUCTURAL STEEL

- 99. 714.08 ANCHOR BOLTS, BEARING DEVICES, is hereby corrected by deleting ".F" and replacing it with "F" in the first sentence of the first paragraph.
- 100. <u>714.08 ANCHOR BOLTS</u>, BEARING DEVICES, is hereby further corrected by deleting punctuation ".," and replacing it with punctuation "." at the end of the second sentence of the first paragraph.

SECTION 726 - PROTECTIVE COATINGS AND WATERPROOFING MATERIALS

- 101. <u>726.10 CONCRETE STAINING AND SEALING SYSTEMS</u>, is hereby made a new Subsection of the Standard Specifications as follows:
 - 726.10 CONCRETE STAINING AND SEALING SYSTEMS. Approved Concrete Staining and Sealing Systems shall be one of the Concrete Staining and Sealing Systems on the Approved Products List on file with the Agency's Materials and Research Section.
- 102. <u>726.11 SHEET MEMBRANE WATERPROOFING</u>, <u>PREFORMED SHEET</u>, is hereby made a new Subsection of the Standard Specifications as follows:
 - 726.11 SHEET MEMBRANE WATERPROOFING, PREFORMED SHEET. Approved Preformed Sheet Membrane Waterproofing Systems shall be one of the Preformed Sheet Membrane Waterproofing Systems on the Approved Products List on file with the Agency's Materials and Research Section.

SECTION 731 - BEARING PADS FOR STRUCTURES

103. 731.03 ELASTOMERIC MATERIAL, is hereby modified by deleting the second and third paragraphs in their entirety and replacing them with the following:

Unless noted otherwise, elastomer shall have a design hardness of 50 points and a design shear modulus of $0.8 \ \text{MPa}$ (110 psi).

Testing of elastomeric material shall be waived for bearings that will be encased in concrete in the final work. All other bearings shall be tested in accordance with the following table:

TABLE 731.03A - REQUIRED TESTS

Material Property	Test Method	Required Result
Hardness	ASTM D 2240	design hardness +/- 5 points
	or	
	ASTM D 412 with AASTHO M	design shear
Shear Modulus	251 Section 8.8.4	modulus +/- 15%
Low Temperature		
Brittleness	ASTM D 746 Procedure B	Pass Grade 4 test
	AASHTO M 251 Annex A2 or	
Shear Bond Strength	Appendix X2	Pass
		15.6 MPa (2250
Min Tensile Strength	ASTM D 412	psi)
Min Ultimate		(650 - 5 X design
Elongation	ASTM D 412	hardness) %

SECTION 780 - CONCRETE REPAIR MATERIALS

104. 780.05 POLYMER CONCRETE REPAIR MATERIAL, is hereby made a new Subsection of the Standard Specifications as follows:

780.05 POLYMER CONCRETE REPAIR MATERIAL. Approved Polymer Concrete Repair Materials shall be one of the Polymer Concrete Repair Materials on the Approved Products List on file with the Agency's Materials and Research Section.