

GENERAL

1. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ANY OTHER WRITTEN INSTRUCTIONS ISSUED.
2. WHERE APPROVAL IS REQUIRED, THIS SHALL BE OF THE SUPERINTENDENT OR HIS REPRESENTATIVE.
3. ANY AMBIGUITY OR DISCREPANCY SHALL BE REFERRED FOR CLARIFICATION BEFORE WORK PROCEEDS.
2. DIMENSIONS ARE PRESENTED IN MILLIMETERS WITH EQUIVALENT FOOT/INCH VALUE SHOWN IN BRACKETS.
EXAMPLE: 1000mm [3'-3 3/8"]
3. REFER TO THE DRAWING DIMENSIONS FOR SETTING OUT THE WORKS. HOWEVER, ALL EXISTING DIMENSIONS AND LEVELS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR ON SITE.
4. UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES (m).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE UNTIL ITS COMPLETION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED DURING THE WORKS.
6. WHERE STANDARDS ARE REFERRED TO, THEY SHALL BE THE LATEST EDITION.
7. PROPRIETARY ITEMS, PROPOSED BY THE CONTRACTOR, ARE TO BE REVIEWED AND APPROVED BY THE DESIGNING ENGINEER PRIOR TO USE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING WORK AREAS.
9. ALL DEMOLITION SHALL BE IN AN ACCEPTABLE MANNER UNDER THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2009. ALL SURPLUS MATERIAL SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER.

REINFORCEMENT

1. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. IF SHOWN/PERMITTED, WELDS SHALL DEVELOP THE FULL STRENGTH OF THE REINFORCING ELEMENT.
2. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD STRENGTH OF 410 MPa AND SHALL BE TYPE 2 DEFORMED BARS
3. ALL REINFORCING STEEL SHALL BE CLASS II GALVANISED IN ACCORDANCE WITH ASTM A767. TIE WIRE SHALL ALSO BE GALVANISED.
4. REINFORCEMENT SPACING NOT SHOWN SHALL BE TAKEN AS EQUAL.
5. REINFORCING CHAIRS ARE TO BE CONCRETE AND AS SMALL AS PRACTICABLE. PROPRIETARY PLASTIC COVER SUPPORTS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
6. REINFORCING BARS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC ONLY.
7. BARS SHOWN MAY REPRESENT MORE THAN ONE LENGTH AND/OR PROFILE.
8. BARS MAY NOT BE SHOWN IN TRUE POSITION FOR CLARITY. ALL HOOKS, BENDS AND COGS ARE STANDARD AND SHALL BE IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
9. LAP SPLICES TO ALTERNATE AND NO MORE THAN 50% OF SPLICES SHALL BE IN ANY ONE SECTION.
10. BARS SHALL NOT BE CUT NOR BENT ON SITE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
11. BARS SHALL BE BENT COLD BY MACHINE OR OTHER APPROVED MEANS PRODUCING A GRADUAL AND EVEN MOTION. BARS INCORRECTLY BENT SHALL NOT BE RE-BENT AND INCORPORATED IN THE WORKS AND NO REINFORCEMENT SHALL BE BENT WHEN IN POSITION IN THE WORKS, WHETHER OR NOT IT IS PARTIALLY EMBEDDED IN HARDENED CONCRETE.
12. CONTRACTOR TO PROVIDE 24 HOURS NOTICE FOR THE INSPECTION OF ALL REINFORCING PRIOR TO POURING CONCRETE.
13. LAP LENGTHS SHALL BE AS TABULATED (SHOWN BELOW) UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

MINIMUM ALLOWABLE LAP LENGTHS		ALTERNATIVE BAR SIZES		
BAR DIAMETER	MIN LAP LENGTH	METRIC BAR SIZE (mm)	IMPERIAL EQUIVALENT (")	FORMER IMPERIAL DESIGNATION
T10	460mm [18"]	T10	3/8"	#3
T12	600mm [24"]	T12	1/2"	#4
T16	760mm [30"]	T16	5/8"	#5
T20	900mm [36"]	T20	3/4"	#6
T25	1500mm [60"]	T25	1"	#8

CONCRETE

1. CONCRETE SHALL COMPLY WITH THE FOLLOWING SPECIFICATION:
 - MINIMUM CONCRETE STRENGTH AT SERVICE $F'c = 25 \text{ MPa}$
 - MINIMUM CEMENT CONTENT = 440 Kg/m^3 (28 lb/ft^3)
 - MAXIMUM WATER/CEMENT RATIO = 0.5
2. CONCRETE MIX DESIGNS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. NO ADDITIVES TO BE USED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
4. CAST IN ITEMS WITH LESS THAN 25mm (1") COVER TO ATMOSPHERE SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ASTM A153.
5. ALL FORMWORK, SHORING AND RESHORING SHALL BE THE RESPONSIBILITY OF AND DESIGNED BY THE CONTRACTOR
6. CONCRETE SHALL BE TESTED FOR SLUMP ON SITE. THE TEST CYLINDERS SHALL BE TAKEN FOR 3, 7 AND 28 DAY STRENGTHS.
7. CONCRETE STRENGTH AND SLUMP TO BE AS FOLLOWS

MIN. SPECIFIED 28 DAY STRENGTH	SLUMP
25 MPa	75mm ± 25mm

EXCAVATION AND EARTHWORKS

1. CONTRACTOR TO TAKE CARE IN EXCAVATION OF EXISTING STRUCTURE AND IN GENERAL TO NOT CAUSE UNCONTROLLED STRUCTURAL COLLAPSE
2. ALL SHORING, SHEETING AND DE-WATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING AND SURROUNDING INFRASTRUCTURE
4. IF UNEXPECTED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT DETAILS OF SUCH TO THE ENGINEER.
5. BACKFILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, CONSTRUCTION DEBRIS AND LARGE ROCKS.
6. BACKFILL MATERIAL SHALL BE WELL GRADED AND PLACED IN LAYERS NOT EXCEEDING 150mm (6")
7. BACKFILL MATERIAL TO BE COMPACTED EVERY 600mm (2')
8. THE CONTRACTOR SHALL LOCATE AND IDENTIFY EXISTING UNDERGROUND UTILITIES WITHIN THE SITE EXTENTS. IF UTILITIES ARE TO REMAIN, THE CONTRACTOR SHALL ENSURE THAT THE UTILITIES ARE SUPPORTED AND PROTECTED THROUGHOUT THE WORKS.

ATLANTIC OCEAN

CONEY ISLAND ROAD

MILL OFF TOP LAYER OF EXISTING ASPHALT AT LANDING AREA AND LAY NEW ASPHALT TO SUIT NEW BRIDGE

CONCRETE RAMP TO BE CUT AND MODIFIED TO SUIT NEW BRIDGE REFER TO SHEET S002 FOR DETAILS

ADAPTOR PLATES TO ALLOW NEW BRIDGE TO RE-USE EXISTING HOLD DOWN BOLTS

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THE MINISTRY OF PUBLIC WORKS

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Fax: (441) 295-5658

ISSUED FOR: TENDER

AMENDMENTS:

NO	REVISION	BY	APP	DATE
A	FOR TENDER	CF	-	14/04/26

SCALE: AS SHOWN AT ANSI D

SURVEY
PREPARED BY: _____ DATE: _____
-

DESIGN
PREPARED BY: C.FRASER DATE: 14/04/26
CHECKED BY: _____ DATE: _____
-

DRAWING
PREPARED BY: C.FRASER DATE: 14/04/26
CHECKED BY: _____ DATE: _____
-

APPROVED BY: _____ DATE: _____
-

PROJECT NUMBER: _____

PROJECT NAME:

CONEY ISLAND BRIDGE REPLACEMENT

HAMILTON PARISH

SHEET TITLE:

GENERAL ARRANGEMENT AND NOTES

SHEET NUMBER: S001 REVISION: A

ISSUED FOR: TENDER

AMENDMENTS:

NO	REVISION	BY	APP	DATE
A	FOR TENDER	CF	-	14/04/26

SCALE: AS SHOWN AT ANSI D

SURVEY
PREPARED BY: - DATE: -

DESIGN
PREPARED BY: C.FRASER DATE: 14/04/26
CHECKED BY: - DATE: -

DRAWING
PREPARED BY: C.FRASER DATE: 14/04/26
CHECKED BY: - DATE: -

APPROVED BY: - DATE: -

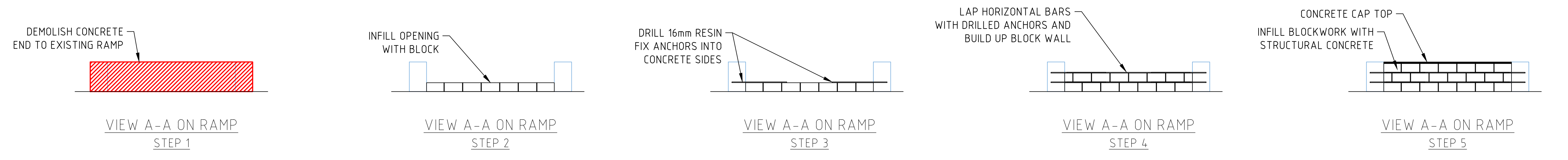
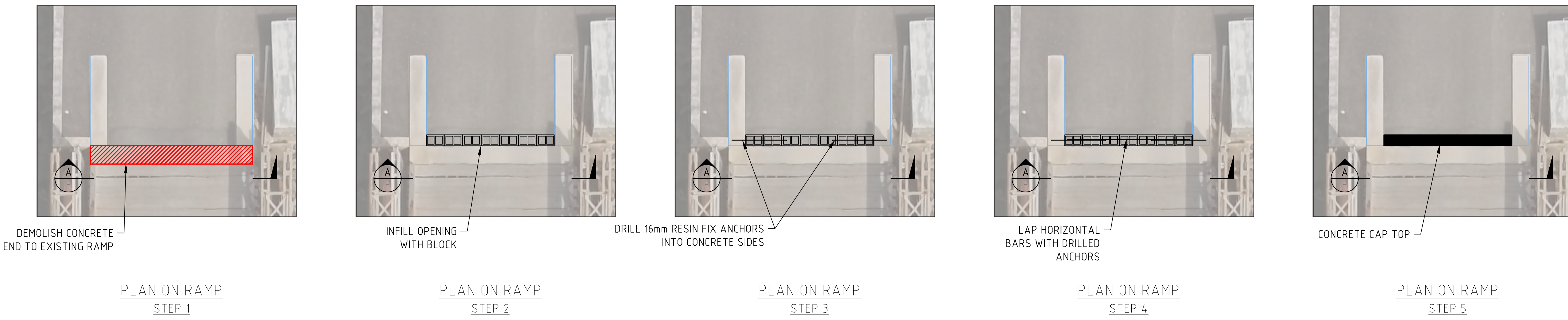
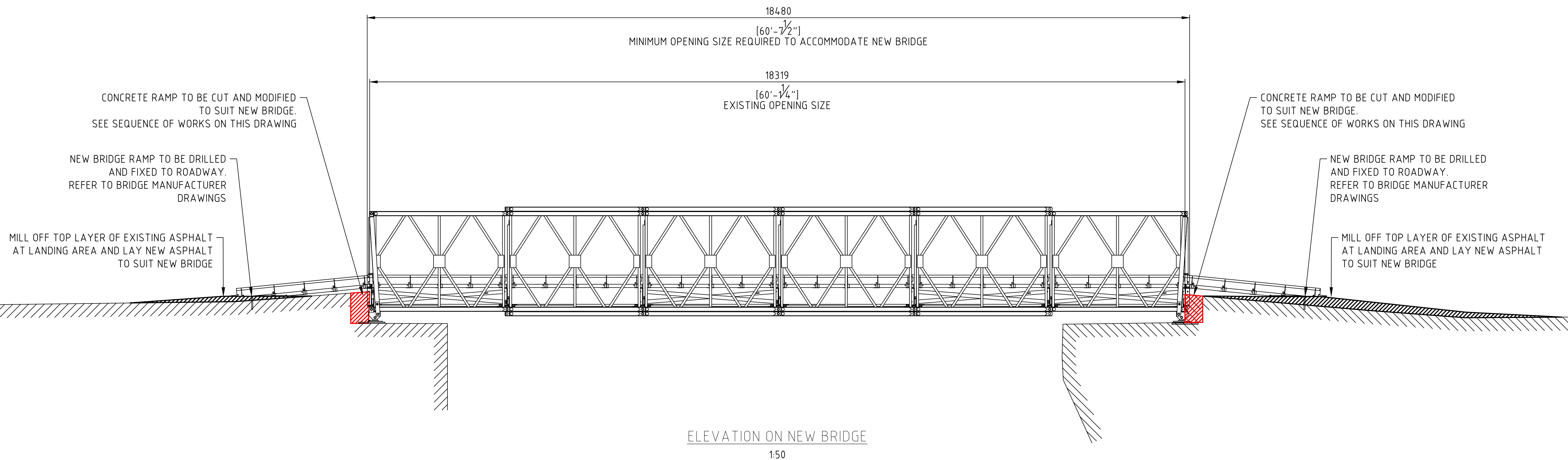
PROJECT NUMBER: -

PROJECT NAME:
**CONEY ISLAND
BRIDGE REPLACEMENT**

HAMILTON PARISH

SHEET TITLE:
**MODIFICATION
DETAILS**

SHEET NUMBER: **S002** REVISION: **A**



SEQUENCE OF WORKS ON ENTRANCE RAMPS
SAME FOR OPPOSITE BRIDGE END
1:50