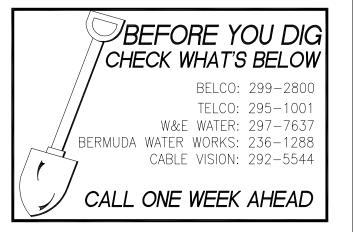


MINISTRY OF PUBLIC WORKS AND ENGINEERING **DEPARTMENT OF WORKS AND ENGINEERING**

WATFORD BRIDGE WATERPROOFING AND EXPANSION JOINT REPLACEMENT

DRAWINGS:

S-0 COVER S-1 AREA OF WORKS S-2 BRIDGE JOINT DETAILS



THE MINISTRY OF PUBLIC WORKS

P.O. Box HM525 Hamilton HMCX Bermud Phone: (441)295-5151

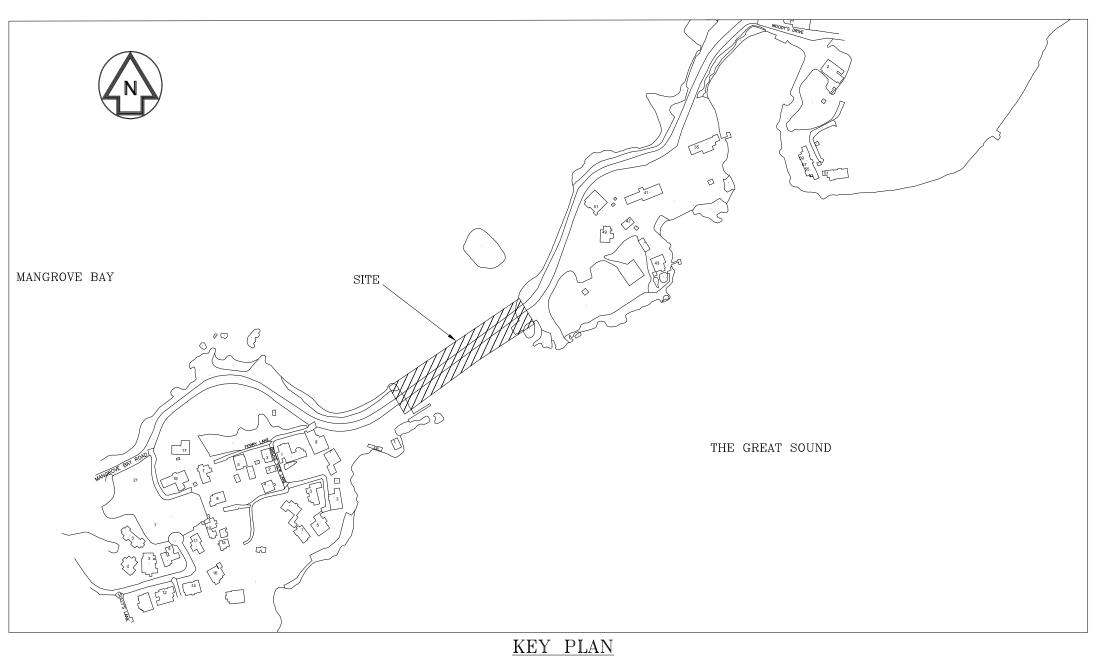
DEPARTMENT OF WORKS AND ENGINEERING Fax: (441)294-9087

Structures Section

ISSUED FOR: TENDER

ORIGINAL PAPER SIZE OF DRAWING IS 34"X22". ALL SCALES SHOWN ARE TO BE HALVED WHEN DRAWING IS PRINTED ON 17"X11" PAPER.

09/2016



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PROJECT NAME: WATFORD BRIDGE

WATERPROOFING & EXPANSION JOINT REPLACEMENT SANDYS PARISH

SHEET TITLE:

COVER

SHEET NUMBER: S-0

1

BRIDGE DECK/SIDEWALK SHOWN IN HATCHED AREA TO BE REPLACED TYP BOTH SIDES WEST SIDE 1. THE SITE SHALL BE MAINTAINED IN A SAFE MANNER WITH ADEQUATE LIGHTING AND ADVANCED WARNING SIGNS. ONE VEHICULAR AND PEDESTRIAN LANE SHALL BE 2. THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE DECK SURFACING AND WATERPROOFING MEMBRANE. HAND RAIL 3. THE CONTRACTOR SHALL ALSO REMOVE A PORTION OF THE CONCRETE SIDEWALK AS PER THE GRAY SHADED AREA IN THE DRAWING. THE STEEL REINFORCEMENT IN THE AREA SHALL REMAIN IN PLACE. STAINLESS STEEL CHECKER PLATES INSTALLED OVER NEW 4. THE CONTRACTOR SHALL REMOVE THE EXISTING BRIDGE DECK JOINTS; ANY METAL FIXINGS FOR THE MECHANISM REMAINING SHALL BE CUT BACK TO GIVE 50mm BRIDGE DECK JOINTS IN SIDEWALK, TYP BOTH SIDES. COVER TO THE REINSTATED CONCRETE BRIDGE DECK SURFACE. PLEASE REFER TO SECTION 5. THE BRIDGE DECK SHALL BE ADEQUATELY PREPARED IN STRICT ACCORDANCE WITH F-F AND SECTION G-G OF THE MANUFACTURE'S INSTRUCTION TO RECEIVE THE LIQUID APPLIED WATERPROOFING MEMBRANE FOR THE FULL LENGTH AND WIDTH OF THE BRIDGE DECK AND UP EACH "DECK SLAB GENERAL ARRANGEMENT" OF THE NEW WATFORD BRIDGE DRAWING. 6. THE CONTRACTOR SHALL REPAIR THE CONCRETE BRIDGE DECK USING PROPRIETARY HIGH STRENGTH CONCRETE REPAIR MORTAR THAT HAS BEEN APPROVED BY THE ENGINEER AND ACCEPTABLE TO THE JOINT AND WATERPROOFING MANUFACTURERS. SCALE: 1:100 7. THE EXPOSED BRIDGE DECK AND ABUTMENT SURFACES SHALL BE TREATED WITH A TWO PART LIQUID APPLIED WATERPROOFING MEMBRANE. 8. THE DECK SHALL BE RESURFACED BY THE MINISTRY OF PUBLIC WORKS. THE CONTRACTOR SHALL LIAISE WITH THE MINISTRY OF PUBLIC WORKS TO COORDINATE THIS ELEMENT OF THE WORKS. THE SURFACING SHALL BE REINSTATED TO THE CORRECT DEPTH FOR THE DESIGN OF THE JOINT. ISSUED FOR: TENDER 10. THE CONTRACTOR SHALL INSURE THAT THE NEW ASPHALT IS CLEANLY CUT AND REMOVED IN THE AREA OF THE DECK JOINT SO THAT A SOUND ASPHALT EDGE IS PRESENTED FOR THE INSTALLATION OF THE JOINT. SUPPLY AND INSTALL WATERPROOFING MEMBRANE OVER THE FULL LENGTH AND 11. THE CONTRACTOR SHALL SUPPLY AND INSTALL NEW EXPANSION JOINTS. WIDTH OF THE BRIDGE DECK AND UP THE KERBS 12. THE CONTRACTOR SHALL REINSTATE THE CONCRETE IN THE SIDEWALK AREA AFTER APPLYING A BONDING AGENT SUCH AS WELDCRETE TO THE EXISTING STEEL REINFORCEMENT AND TO THE CONTACT FACES BETWEEN NEW AND OLD CONCRETE. THE BONDING AGENT SHALL BE APPLIED IN AGREEMENT WITH MANUFACTURER'S 13. THE CONTRACTOR SHALL SUPPLY AND INSTALL STAINLESS STEEL COVER PLATES WHERE THE EXPANSION JOINT PASSES THROUGH THE SIDEWALKS AND KERBS. 14. THE CONTRACTOR SHALL SUPPLY AND INSTALL TWO PART POLYSULPHIDE JOINT EXPANSION JOINT DRAWING PREPARED BY: R GRAHAM-WARD KERB CHECKED BY: M.MURPHY APPROVED BY: WEST SIDE HAND RAIL 44/11/50 SIDEWALK STAINLESS STEEL CHECKER PLATES INSTALLED OVER NEW BRIDGE DECK JOINTS IN LEGEND SIDEWALK, TYP BOTH SIDES Denotes spot levels - ∕v — Overhead Wires BRIDGE DECK/SIDEWALK SHOWN light plole IN HATCHED AREA TO BE Grate REPLACED TYP BOTH SIDES ROAD Inspection Covers BAY SCALE: 1:250 SCALE: 1:100

THE MINISTRY OF PUBLIC WORKS

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Structures Section

1. ORIGINAL PAPER SIZE OF DRAWING IS 34"X22". ALL SCALES SHOWN ARE TO BE HALVED WHEN DRAWING IS PRINTED ON 17"X11" PAPER.

09/2016

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DATE:

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AMENDMENTS: NO | REVISION 1 ISSUED FOR TENDER SCALE: AS SHOWN PREPARED BY: DESIGN PREPARED BY: R. CROSSLEY CHECKED BY M. MURPHY

PROJECT NUMBER:

PROJECT NAME:

WATFORD BRIDGE MAINTENANCE 2016

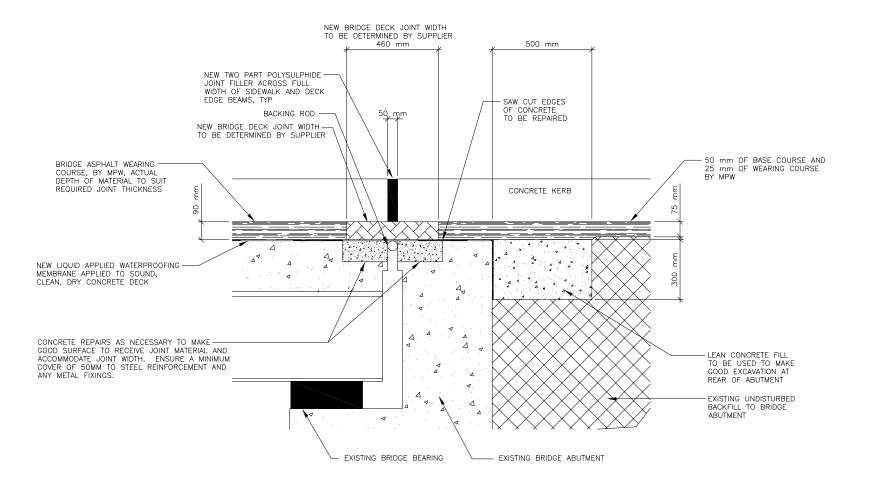
BRIDGE DECK REPLACEMENT SANDYS PARISH

AREA OF WORKS

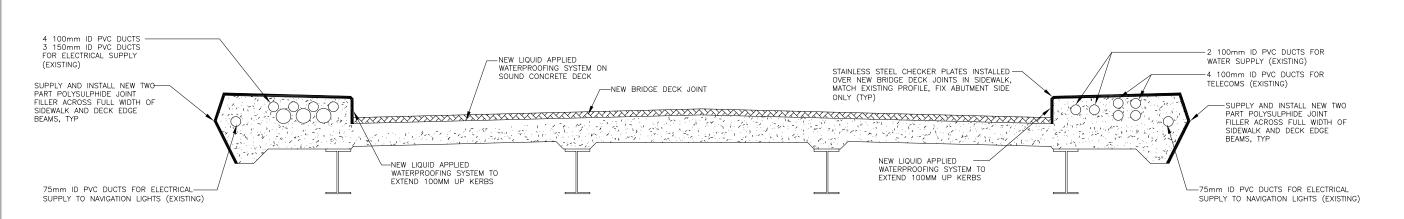
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REVISION



SECTION AT ABUTMENT



DECK CROSS SECTION

SCALE: 1:20

THE MINISTRY OF PUBLIC WORKS

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Structures Section

- THE JOINT SHALL BE DESIGNED TO ACCOMMODATE A
 MOVEMENT OF +/- 19mm ON THE WEST END AND
 +/- 25mm ON THE LEAST END. THE JOINT SHALL
 NOT REQUIRE MECHANICAL FIXINGS INTO THE CONCRETE
 BRIDGE DECK.
- ASPHALTIC PLUG JOINT AS SUPPLIED BY UNIVERSAL SEALANTS LIMITED IS CONSIDERED ACCEPTABLE FOR THIS JOINT.
 ALTERNATIVELY A BRITFLEX NJ EXPANSION JOINT AS SUPPLIED BY UNIVERSAL SEALANTS LIMITED IS CONSIDERED ACCEPTABLE.
 - THE MINISTRY OF PUBLIC WORKS WILL CONSIDER ANY ALTERNATIVE PROPOSALS THAT DO NOT REQUIRE MECHANICAL FIXING TO THE CONCRETE DECK.
- ORIGINAL PAPER SIZE OF DRAWING IS 34"X22". ALL SCALES SHOWN ARE TO BE HALVED WHEN DRAWING IS PRINTED ON 17"X11" PAPER.

ISSUED FOR: TENDER

AMENDMENTS

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SCALE: AS SHOWN

SURVEY

PREPARED BY

<u>DESIGN</u> PREPARED BY: DATE: R. CROSSLEY 01/2011 CHECKED BY: M. MURPHY 01/2011

DATE:

DATE:

08/2016

03/2017

03/2017

DATE:

DRAWING

PREPARED BY: R.GRAHAM-WARD CHECKED BY: M.MURPHY APPROVED BY:

PROJECT NUMBER:

44/11/50

Y. LORTIE

WATFORD BRIDGE

WATERPROOFING & EXPANSIO JOINT REPLACEMENT SANDYS PARISH

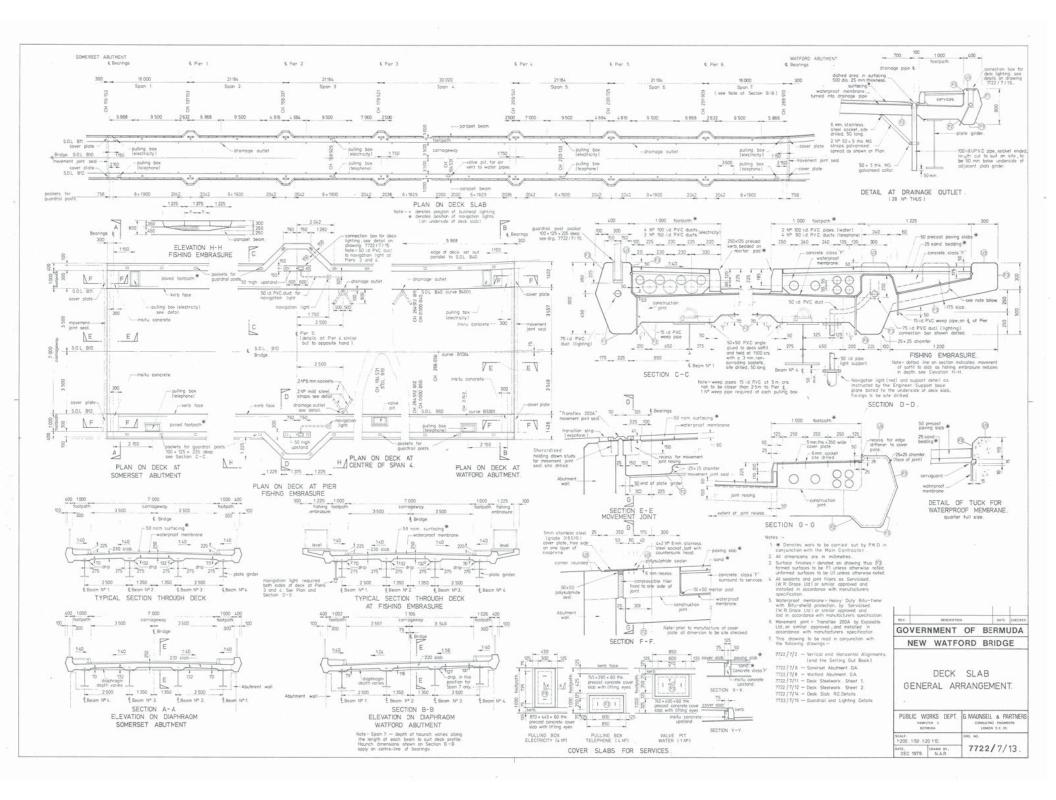
SHEET TITLE:

BRIDGE JOINT DETAILS

SHEET NUMBER:

REVISION 1

S-2



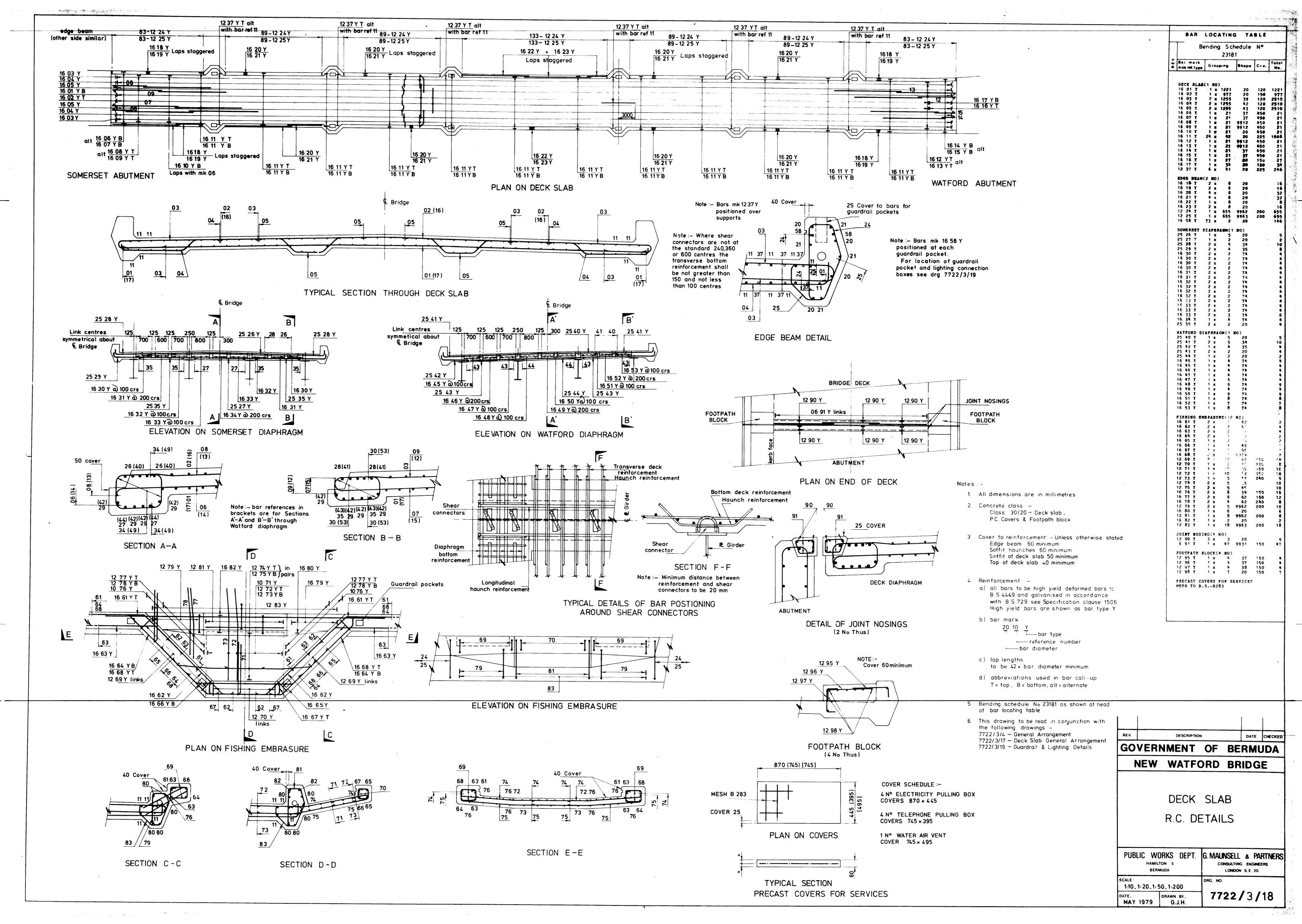




Figure 1 : Watford Bridge Looking North



Figure 2: Watford Bridge Looking South



Figure 3: Watford Bridge Approaches Looking North



Figure 4: North Expansion Joint

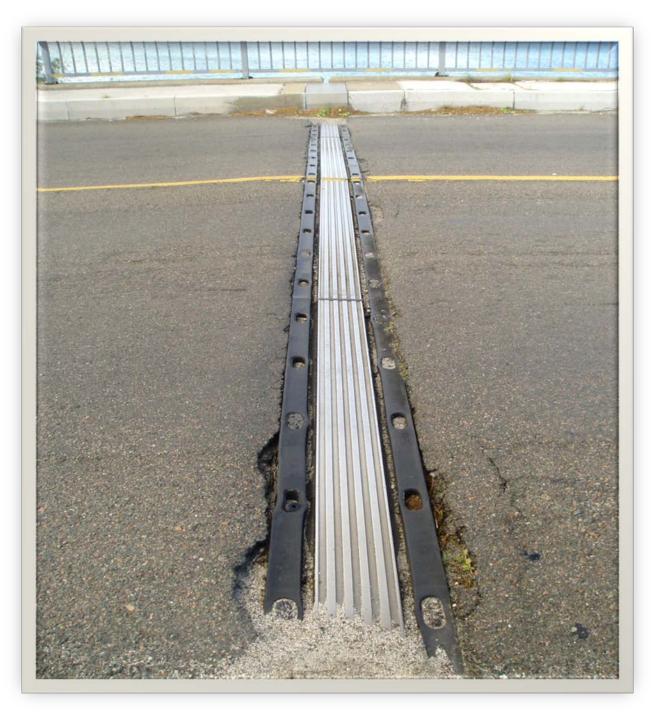


Figure 5: South Expansion Joint