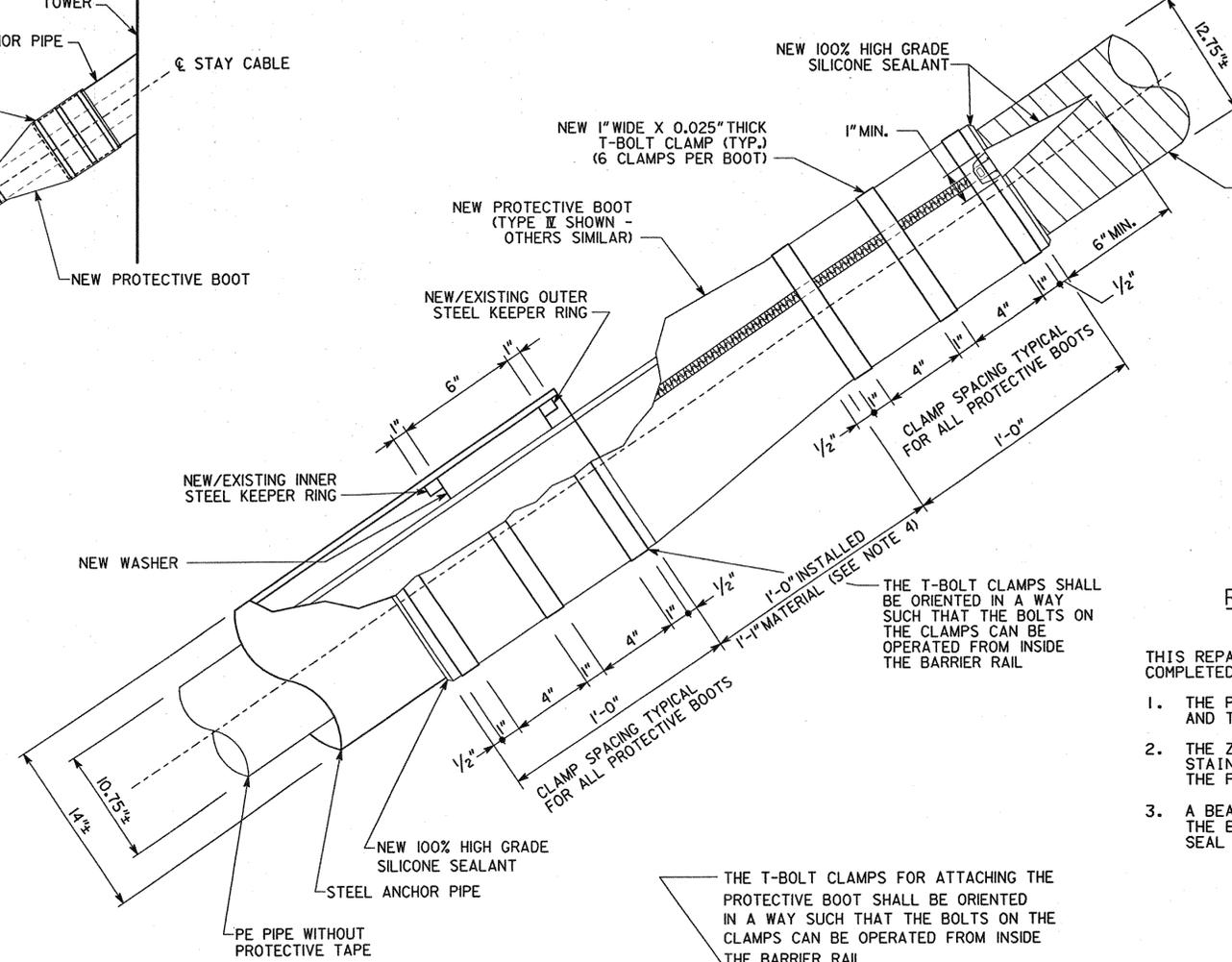
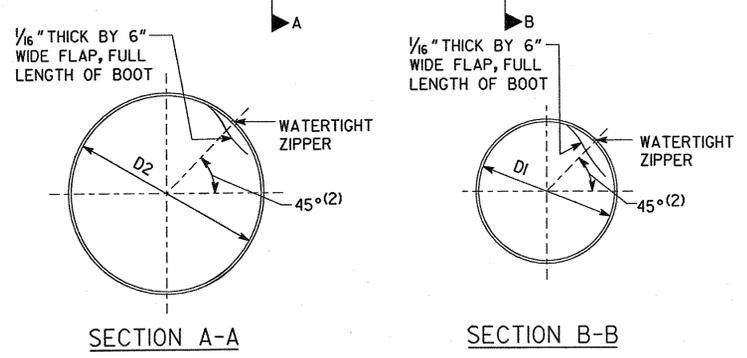
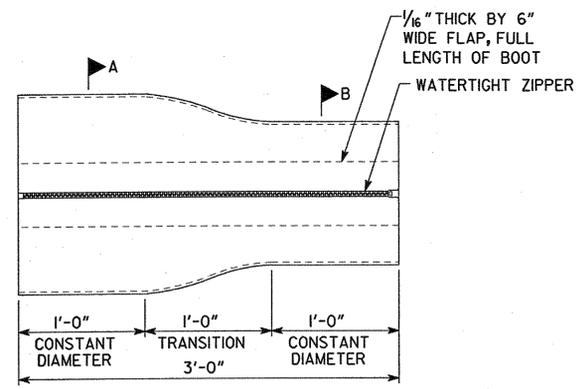


TYPICAL STAY CABLE SHOWING LOCATION OF NEW PROTECTIVE BOOTS



NEW TYPE IV PROTECTIVE BOOT (CABLE I AT DECK SHOWN, OTHERS SIMILAR)

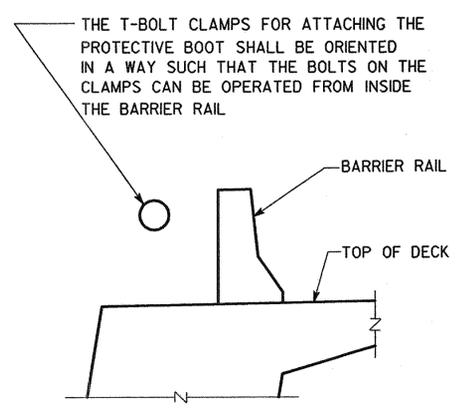


PROTECTIVE BOOT DETAIL

(2) THE DECK ANCHOR BOOTS SHALL BE INSTALLED SUCH THAT THE ZIPPER IS AT 45° FROM THE HORIZONTAL PLANE THROUGH THE AXIS OF THE CABLE AND FACING TOWARDS THE CENTERLINE OF THE BRIDGE

PROTECTIVE BOOT TYPE	CABLES	LOCATION	NUMBER OF BOOTS	INTERNAL DIAMETER (IN)	
				D1 (1)	D2 (1)
TYPE I	7 TO 29 & 44 TO 66	AT DECK	92	6.70±	8.79±
TYPE II	6, 30 TO 33, 40 TO 43 & 67	AT DECK	20	8.71±	9.79±
TYPE III	4, 5, 34 TO 39, 68 & 69	AT DECK	20	10.85±	11.92±
TYPE IV	1 TO 3 & 70 TO 72	AT DECK	12	12.86±	14.17±
TYPE V	7 TO 29 & 44 TO 66	AT TOWER	92	5.64±	12.92±
TYPE VI	6, 30 TO 33, 40 TO 43 & 67	AT TOWER	20	6.71±	14.17±
TYPE VII	4, 5, 34 TO 39, 68 & 69	AT TOWER	20	8.72±	16.17±
TYPE VIII	1 TO 3 & 70 TO 72	AT TOWER	12	10.86±	18.17±

(1) NOMINAL DIMENSIONS, CONTRACTOR TO FIELD VERIFY).



T-BOLT CLAMP DETAIL

REPAIR	DESCRIPTION
(1)	STEEL ANCHOR PIPE CRACK REPAIR
(2)	HEAT STRAIGHTENING OF STEEL ANCHOR PIPE
(3)	REMOVAL OF EXISTING PROTECTIVE BOOTS, STEEL KEEPER RINGS AND WASHERS
(4)	INSTALLATION OF NEW WASHERS AND STEEL KEEPER RINGS
(5)	PROTECTIVE BOOT RETROFIT
(6)	MISCELLANEOUS CONCRETE REPAIRS
(7)	TIE-DOWN BOOT REPAIR
(8)	MISCELLANEOUS ELECTRICAL REPAIRS
(9)	CABLE STAY PROTECTIVE TAPE REPAIR

SUGGESTED SEQUENCE  
REPAIR (5) - PROTECTIVE BOOT RETROFIT

THIS REPAIR SHALL BE PERFORMED ONLY AFTER REPAIR (4) HAS BEEN COMPLETED AND ONLY AFTER DEWATERING OF THE DECK STEEL ANCHOR PIPES.

1. THE PROTECTIVE BOOTS SHALL BE ZIPPED ONTO THE STEEL ANCHOR PIPE AND THE PE PIPE AS SHOWN.
2. THE ZIPPED PROTECTIVE BOOTS SHALL BE CLAMPED SECURELY BY 3 STAINLESS STEEL T-BOLT CLAMPS AROUND THE STEEL ANCHOR PIPE AND THE PE PIPE RESPECTIVELY.
3. A BEAD OF 100% HIGH GRADE SILICONE SEALANT SHALL BE APPLIED THE EDGE OF THE PROTECTIVE BOOT AND AT THE ENDS OF THE ZIPPER TO SEAL IT ALONG THE STEEL ANCHOR PIPE AND THE P.E. PIPE.

NOTES

1. FOR GENERAL NOTES SEE SHEET NO. 7.
2. THE PROTECTIVE BOOTS SHALL BE MANUFACTURED WITH A FULL LENGTH WATERTIGHT ZIPPER SUCH THAT IT CAN BE ZIPPED IN PLACE AROUND THE STAY CABLE. THE ZIPPER SHALL BE SITUATED IN THE UPPER LEFT QUADRANT AND AT 45° TOWARDS THE CENTERLINE OF THE BRIDGE.
3. THE PROTECTIVE BOOTS SHALL HAVE DIMENSIONS D1 AND D2 AS SHOWN IN TABLE 19 AFTER COMPLETELY ZIPPING THE WATERTIGHT ZIPPER.
4. THE MIDDLE 1' PORTION OF THE PROTECTIVE BOOT SHALL BE LENGTHENED BY 1" SUCH THAT THE PROTECTIVE BOOT CAN BE INSTALLED WITH A SLIGHT BULGE WITHIN THE MIDDLE 1' PORTION OF THE PROTECTIVE BOOT.

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**DEPARTMENT OF TRANSPORTATION**  
OPERATIONS DIVISION-OFFICE OF MAINTENANCE

**PROTECTIVE BOOT RETROFIT**  
TALMADGE MEMORIAL BRIDGE RETROFIT  
CHATHAM COUNTY CSNHS-M002-00 (373)

NO SCALE MARCH 2006

DATE					
REVISIONS					
BY					

DESIGNED K.J.B.	CHECKED T.S.	REVIEWED
DRAWN R.B.H.	DESIGN GROUP MAINTENANCE	APPROVED