

NOTES

AT ALL FIXED POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS ARE TO BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.

THE 2" Ø PIPE SLEEVE SHALL BE CUT FROM SCHEDULE 40 PVC PLASTIC PIPE. THE PVC PLASTIC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785.

STEEL SOLE PLATES, ANCHOR BOLTS, AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

PRIOR TO WELDING, GRIND THE GALVANIZED SURFACE OF THE PORTION OF THE EMBEDDED PLATE AND SOLE PLATE THAT ARE TO BE WELDED. AFTER WELDING, DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

WHEN WELDING THE SOLE PLATE TO THE EMBEDDED PLATE IN THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 300°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.

SOLE PLATE "P", BOLTS, NUTS, WASHERS AND PIPE SLEEVE SHALL BE INCLUDED IN THE PAY ITEM FOR PRESTRESSED CONCRETE GIRDERS.

ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. NO SHOP DRAWINGS ARE REQUIRED FOR ANCHOR BOLTS AND NUTS. SHOP INSPECTION IS REQUIRED.

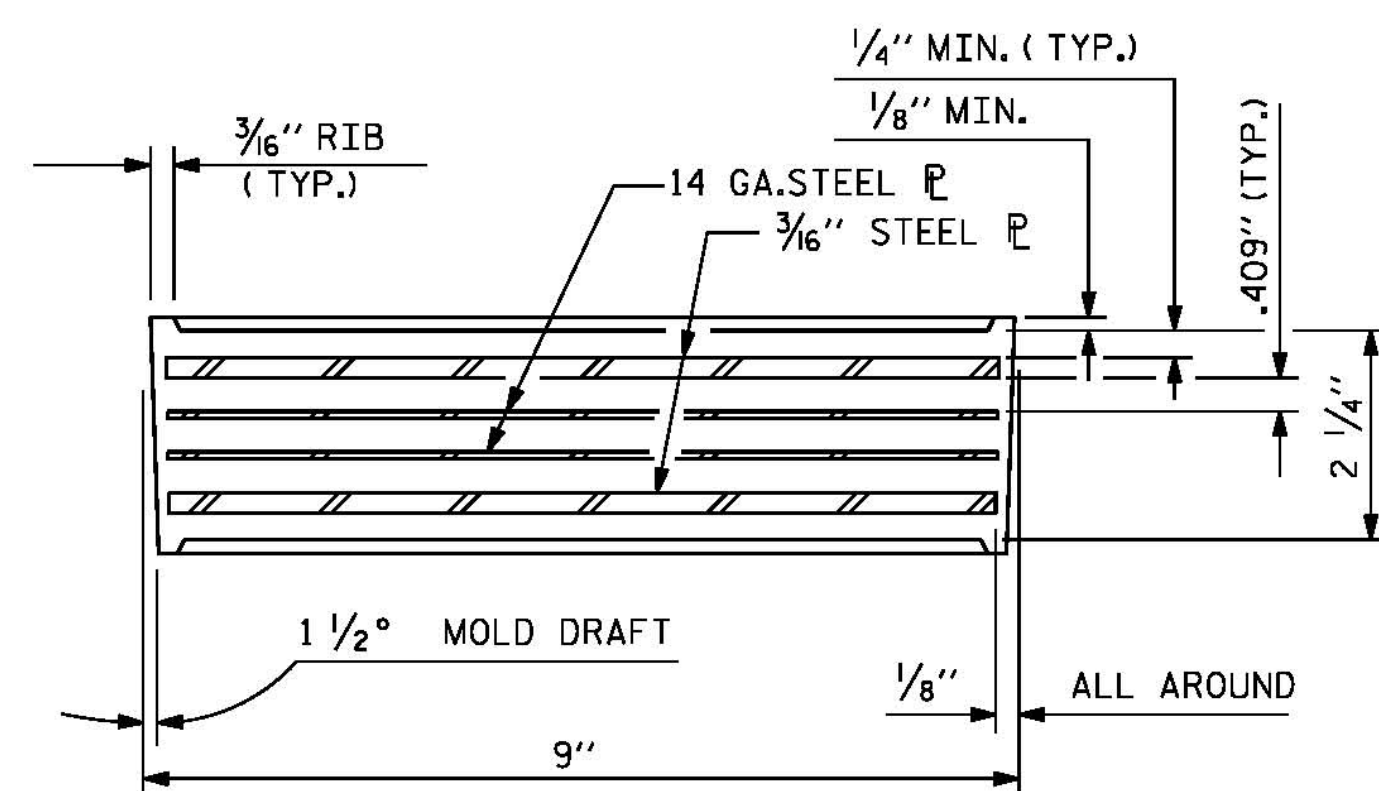
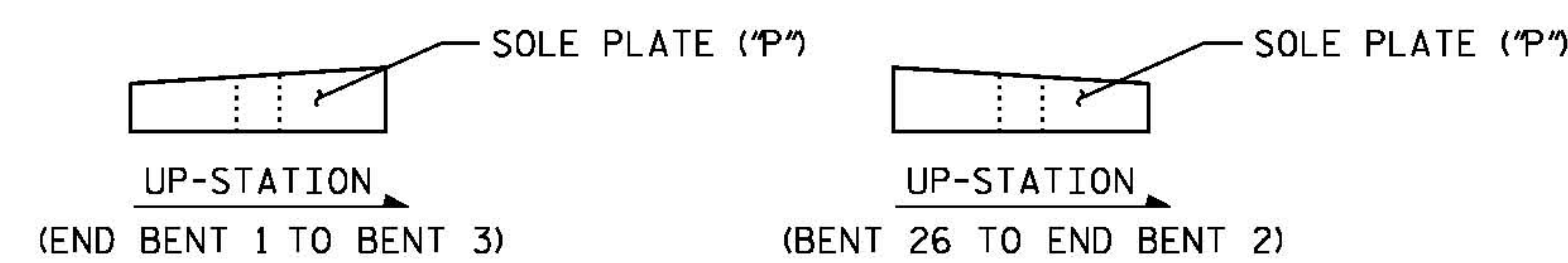
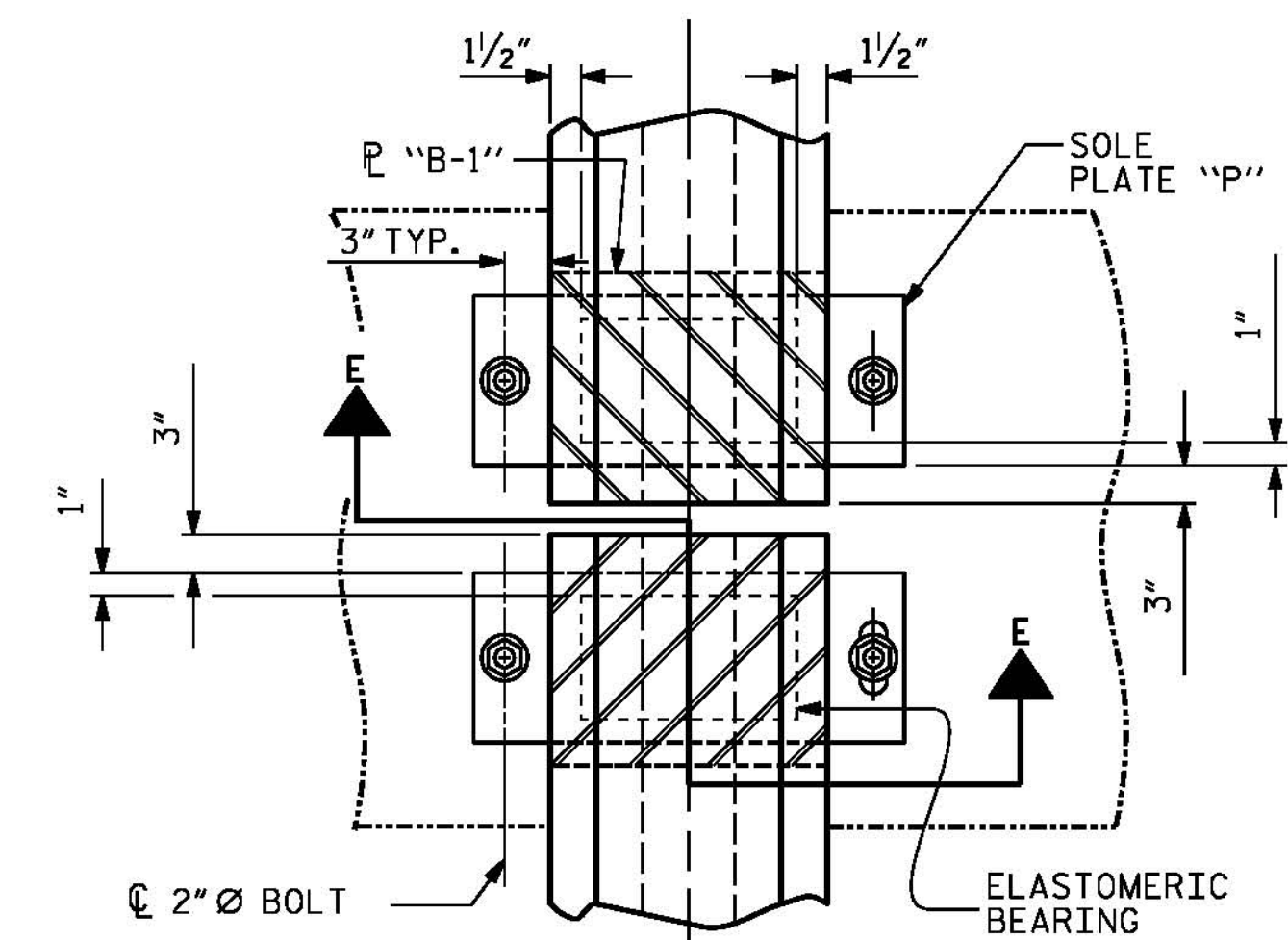
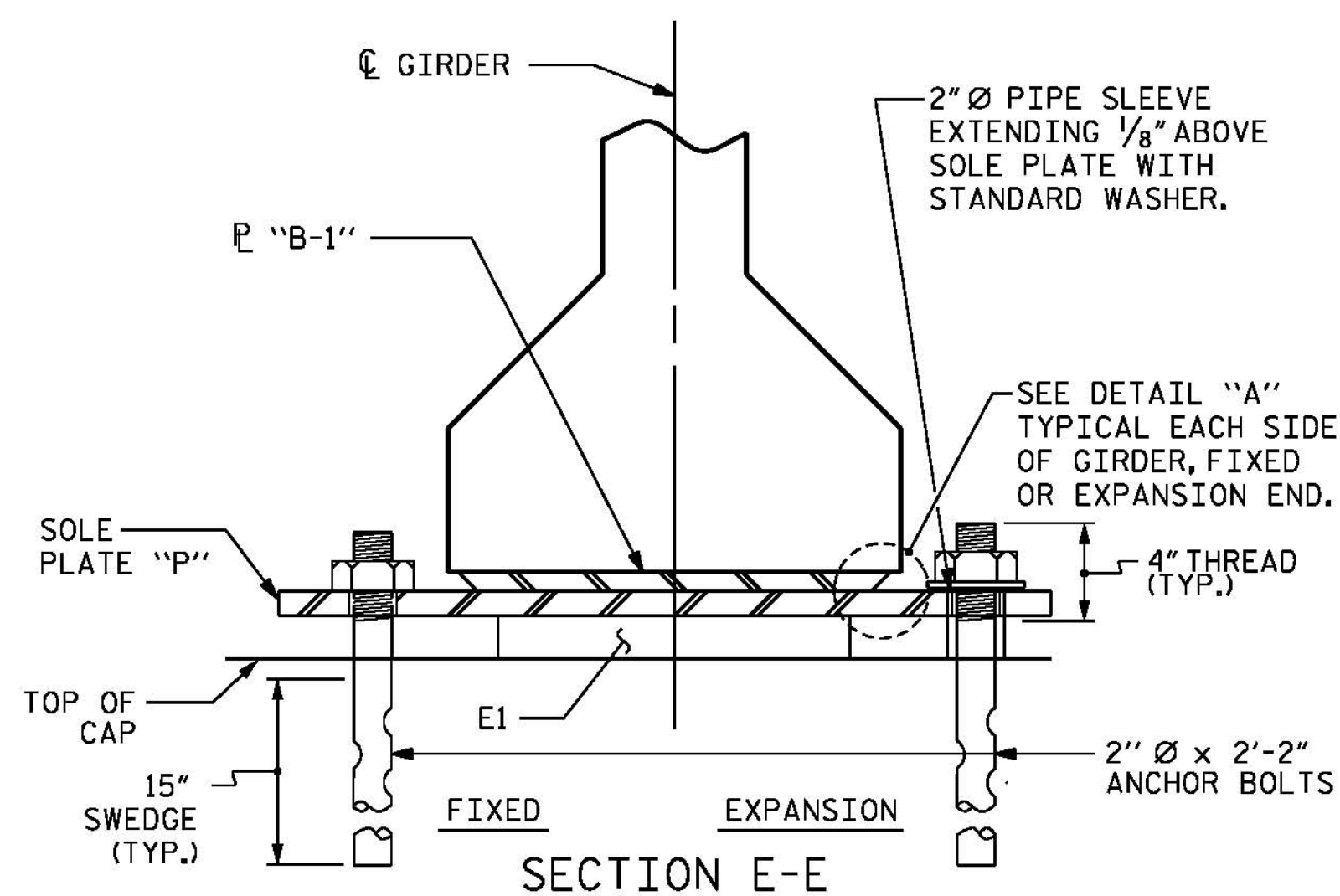
ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.

THE ELASTOMER IN THE STEEL REINFORCED BEARINGS SHALL HAVE A SHEAR MODULUS OF 0.160 KSI, IN ACCORDANCE WITH AASHTO M251.

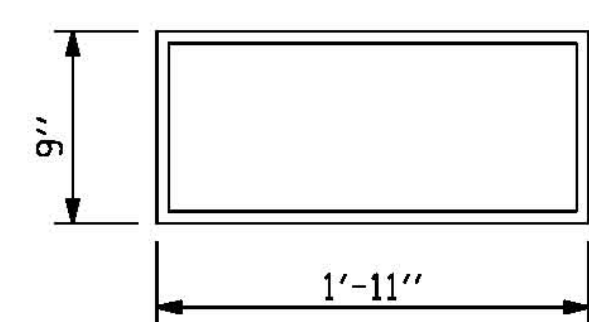
FOR STEEL REINFORCED ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

ALL BEARING PLATES SHALL BE AASHTO M270 GRADE 36 OR GRADE 50.

WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 6" OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN 1/2" OF THE THEORETICAL LOCATION SHOWN.

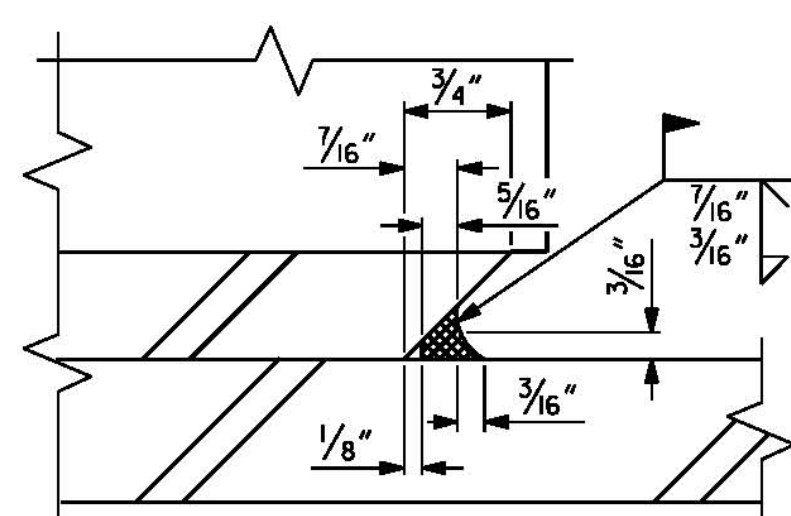


TYPICAL SECTION OF ELASTOMERIC BEARINGS



E1 (72 REQ'D)
PLAN VIEW OF ELASTOMERIC BEARING

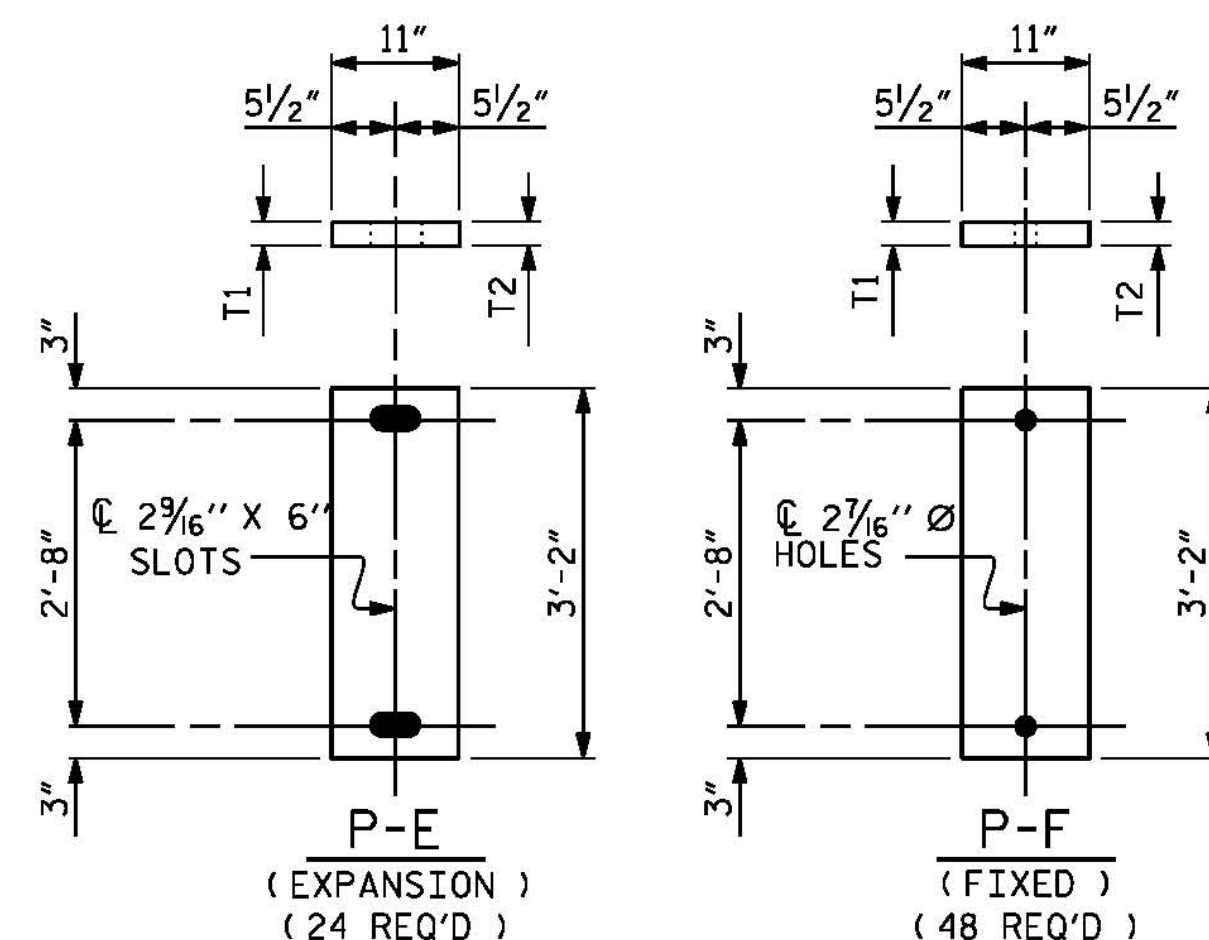
TYPE V



DETAIL "A"

SOLE PLATE SCHEDULE (EXPANSION)			
MARK	T1	T2	# REQ'D.
PA1-E	1/4"	1 1/16"	5
PC2-E	1/4"	1 5/8"	5
PAA1-E	1 5/8"	1/4"	7
PAC2-E	1 3/16"	1/4"	7

SOLE PLATE SCHEDULE (FIXED)			
MARK	T1	T2	# REQ'D.
PA2-F	1/4"	1 5/8"	5
PB1-F	2/4"	2 1/16"	5
PB2-F	1/4"	1 5/8"	5
PC1-F	2/4"	2 1/16"	5
PAA2-F	2 3/16"	2 1/8"	7
PAB1-F	1 3/16"	1/4"	7
PAB2-F	2 3/16"	1 5/16"	7
PAC1-F	1/2"	1/4"	7

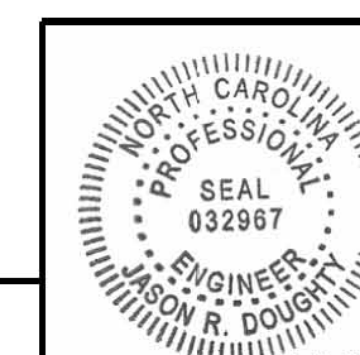


SOLE PLATE DETAILS ("P")

SERVICE I
DESIGN REACTION
MAX.D.L.+ L.L. (NO IMPACT)
TYPE V | 365 K

PROJECT NO. B-4929
PENDER COUNTY
STATION: 38+13.81 -L2-

SHEET 1 OF 3



PARSONS BRINCKERHOFF
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
LICENSE NO. F-0165

DocuSigned by:
Jason R. Doughty
00F1C8648274F7...
5/12/16

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
ELASTOMERIC BEARING
DETAILS

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.
S-106
TOTAL SHEETS
278

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

STD. NO. EB4

5/10/2016 400_209_B4929_SMU_BG1.dgn

DESIGNED BY: J. BORUTA DATE: OCT 2015
DRAWN BY: M. HOBBS DATE: OCT 2015
CHECKED BY: M. WAGNER DATE: JAN 2016
DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016
DRAWN BY: EEM 2/97 REV. 10/1/11 MAA/GM
CHECKED BY: VAP 2/97 REV. 6/13 AAC/MAA
REV. 1/15 MAA/TMG