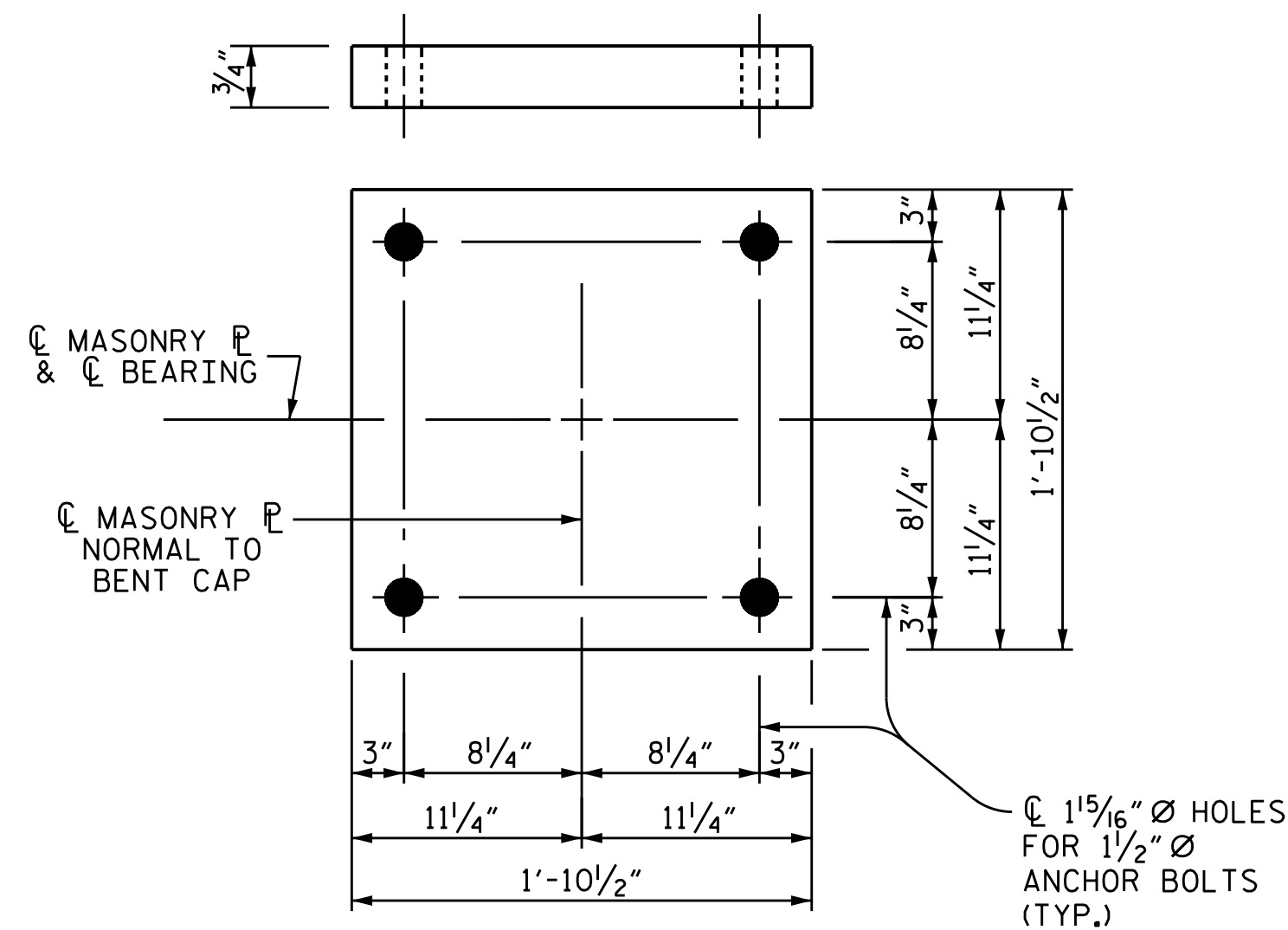
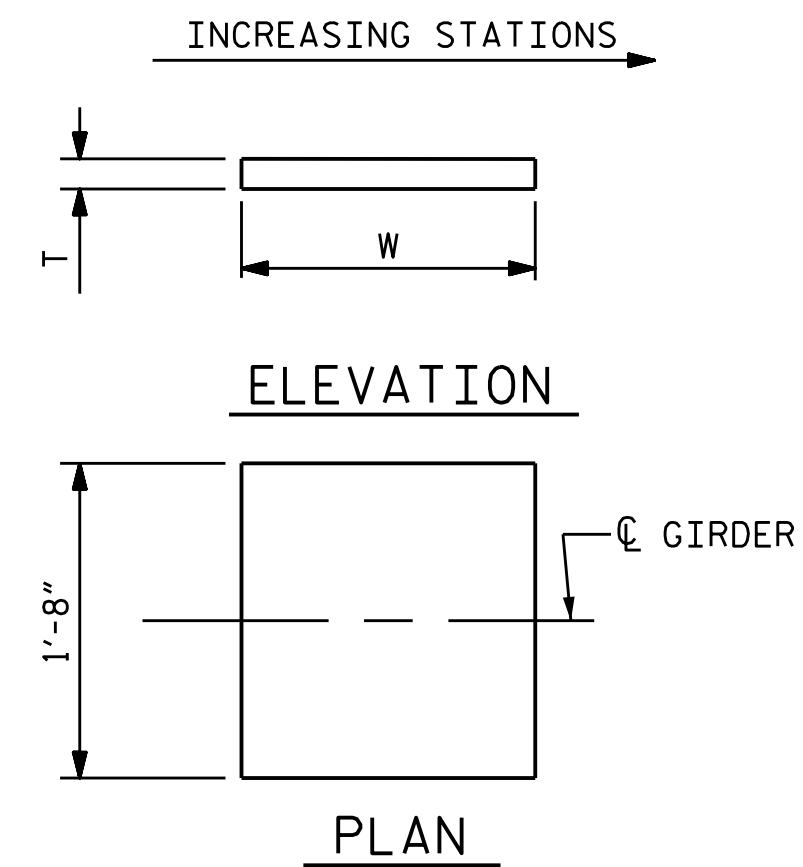


SECTION A-A  
DB1, FIXED  
(10 REQ'D.)



PLAN  
MASONRY PLATE  
DETAILS  
M1  
(10 REQ'D.)



NOTE:  
DIMENSIONS "W" AND "T" SHALL BE DETERMINED  
BY THE BEARING MANUFACTURER.

SOLE PLATE DETAILS  
S1 (10 REQ'D)

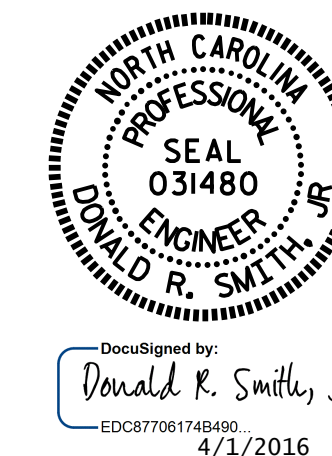
NOTES

- FOR DISC BEARINGS, SEE SPECIAL PROVISIONS.
- ALL BEARING PLATES SHALL BE AASHTO M270 GRADE 50W.
- AT ALL POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS SHALL BE FINGER-TIGHTENED PLUS AN ADDITIONAL 1/4 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.
- WHEN WELDING THE SOLE PLATE TO THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE BEARING DOES NOT EXCEED 250°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE TFE OR URETHANE DISC.
- SOLE PLATES SHOULD BE WELDED TO GIRDER FLANGES BEFORE FALSEWORK IS PLACED.
- ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.
- FOR THERMAL SPRAYED COATINGS (METALLIZATION), SEE SPECIAL PROVISIONS.
- THE MINIMUM ROTATIONAL CAPACITY FOR ALL BEARINGS SHALL BE 0.02 RADIAN.

LOADS AND MOVEMENT

DESIGNATIONS		LOCATION	NUMBER OF BEARINGS	UNFACTORED VERTICAL LOAD (KIPS)			FACTORED HORIZONTAL LOAD (KIPS)	ONE-WAY MOVEMENT (IN.)
BEARINGS	MASONRY P			DEAD	LIVE	LL+IM		
DB1 (FIXED)	M1	BENT 1	10	223K	26K	200K	88K	0

PROJECT NO. U-3308  
DURHAM COUNTY  
STATION: 16+42.70-LALT-



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

STANDARD  
DISC BEARING  
DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S1-20
2			4			TOTAL SHEETS 47

ASSEMBLED BY : P.S. ADKINS DATE : 8-6-14  
CHECKED BY : J.D. HAWK DATE : 9-5-14

DRAWN BY : TMG 08/13 REV.  
CHECKED BY : EKP 10/13 REV.

DESIGN ENGINEER OF RECORD:  
D.R. SMITH DATE : 11-22-14

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED