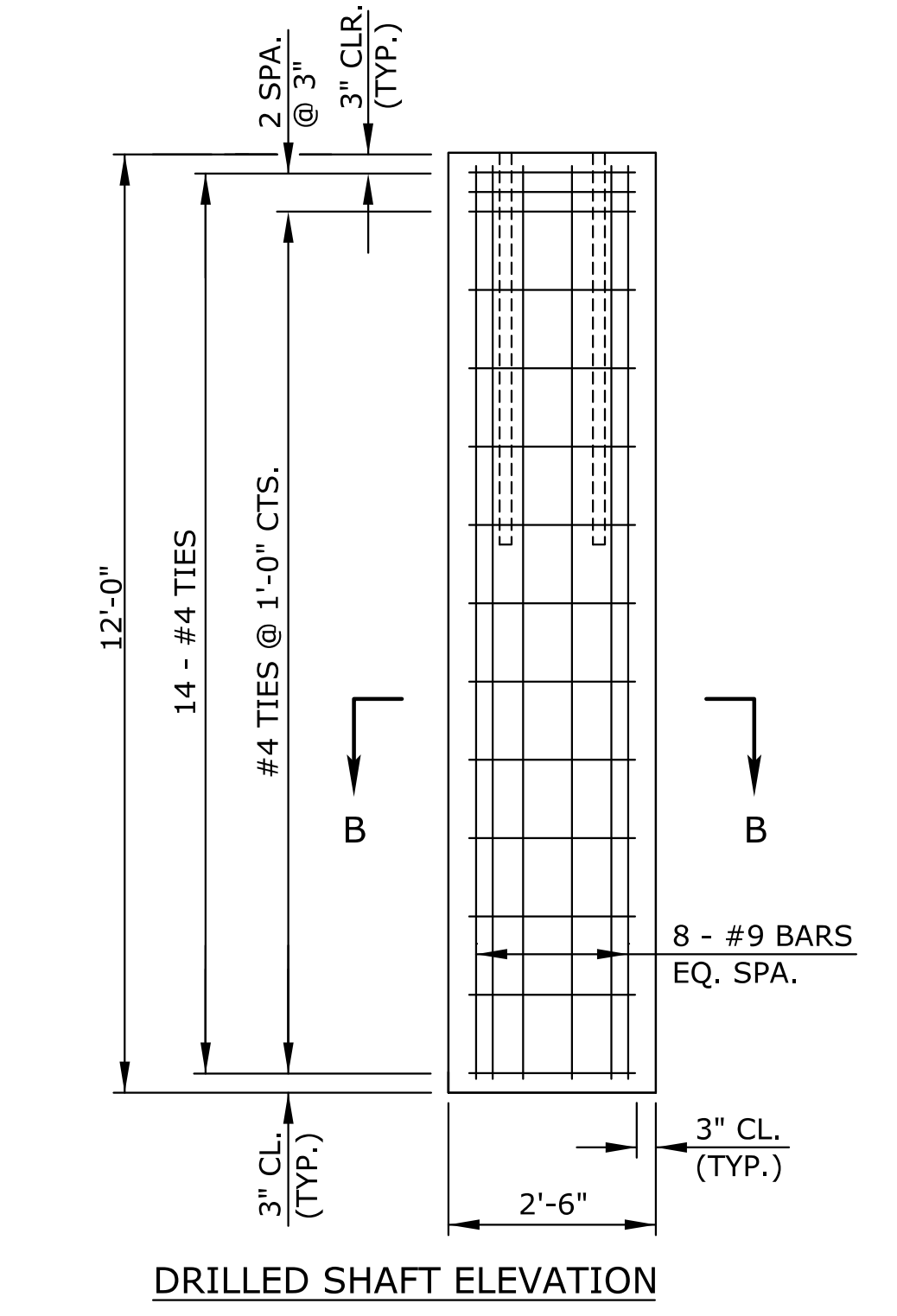
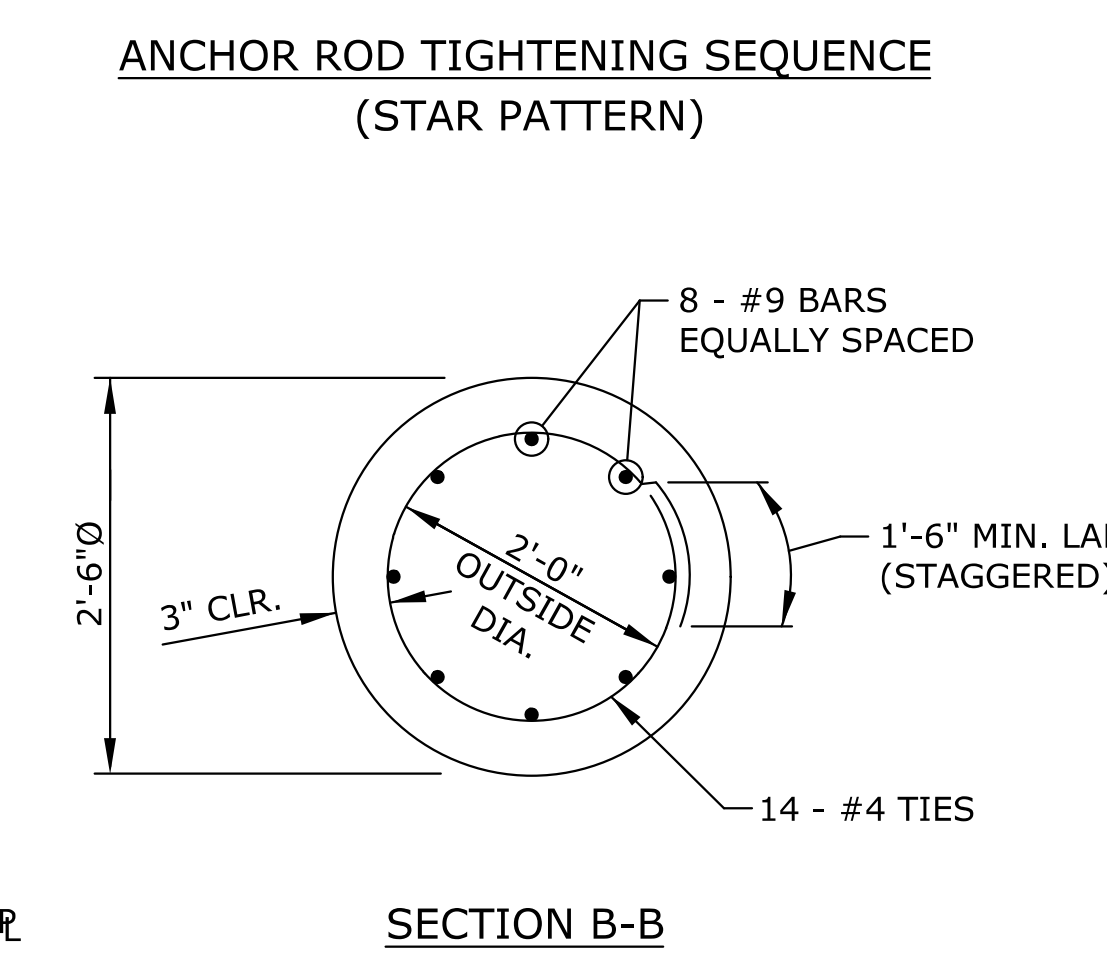
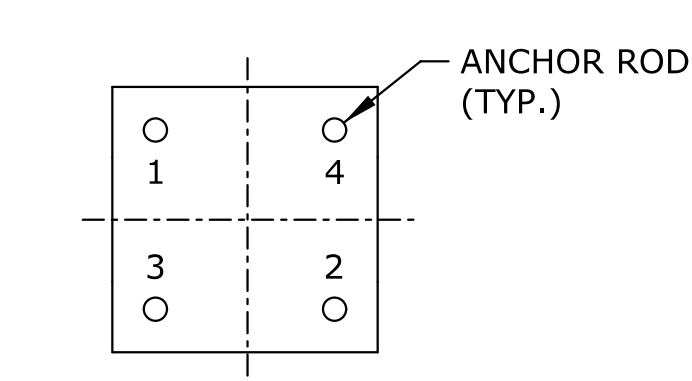
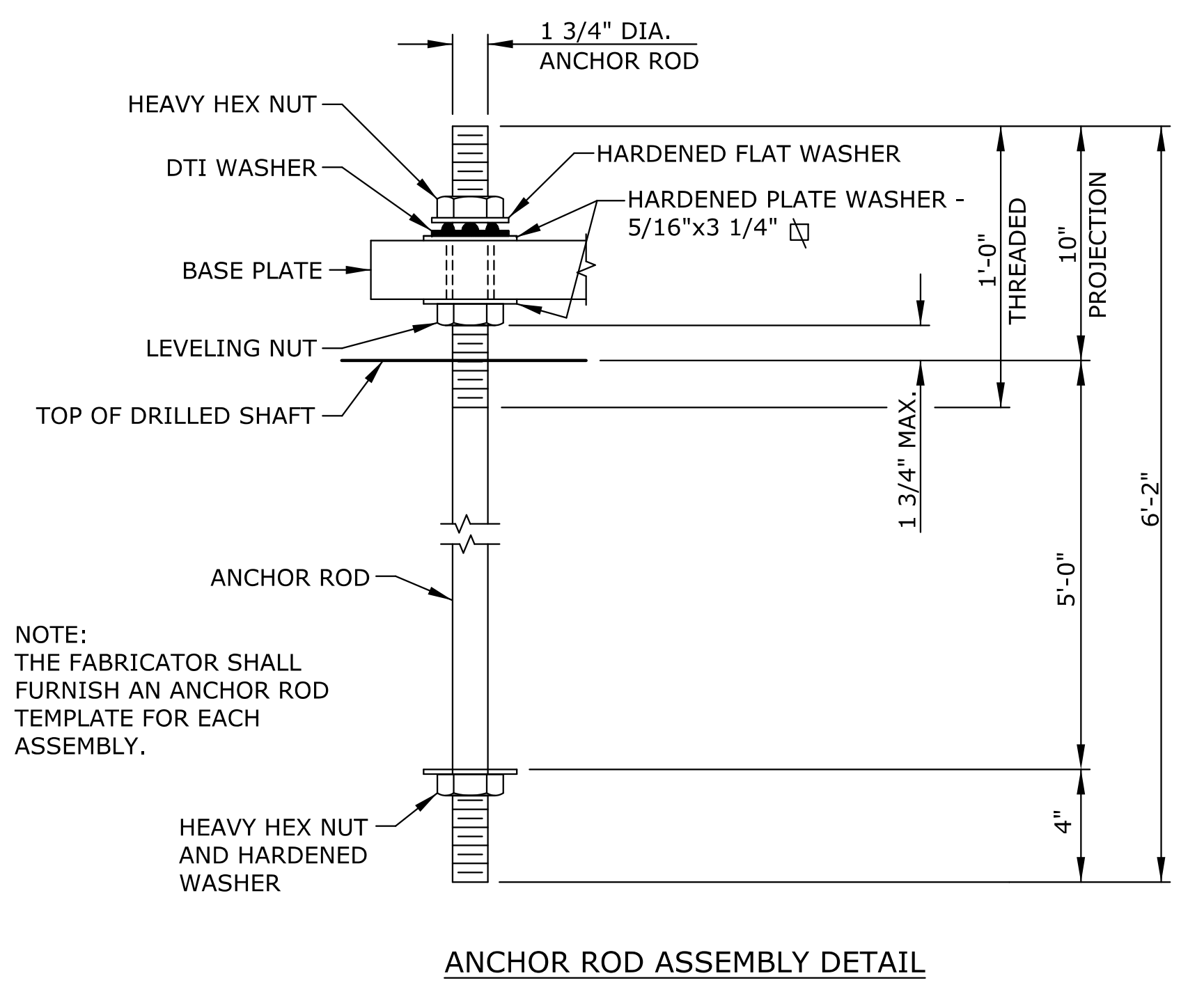
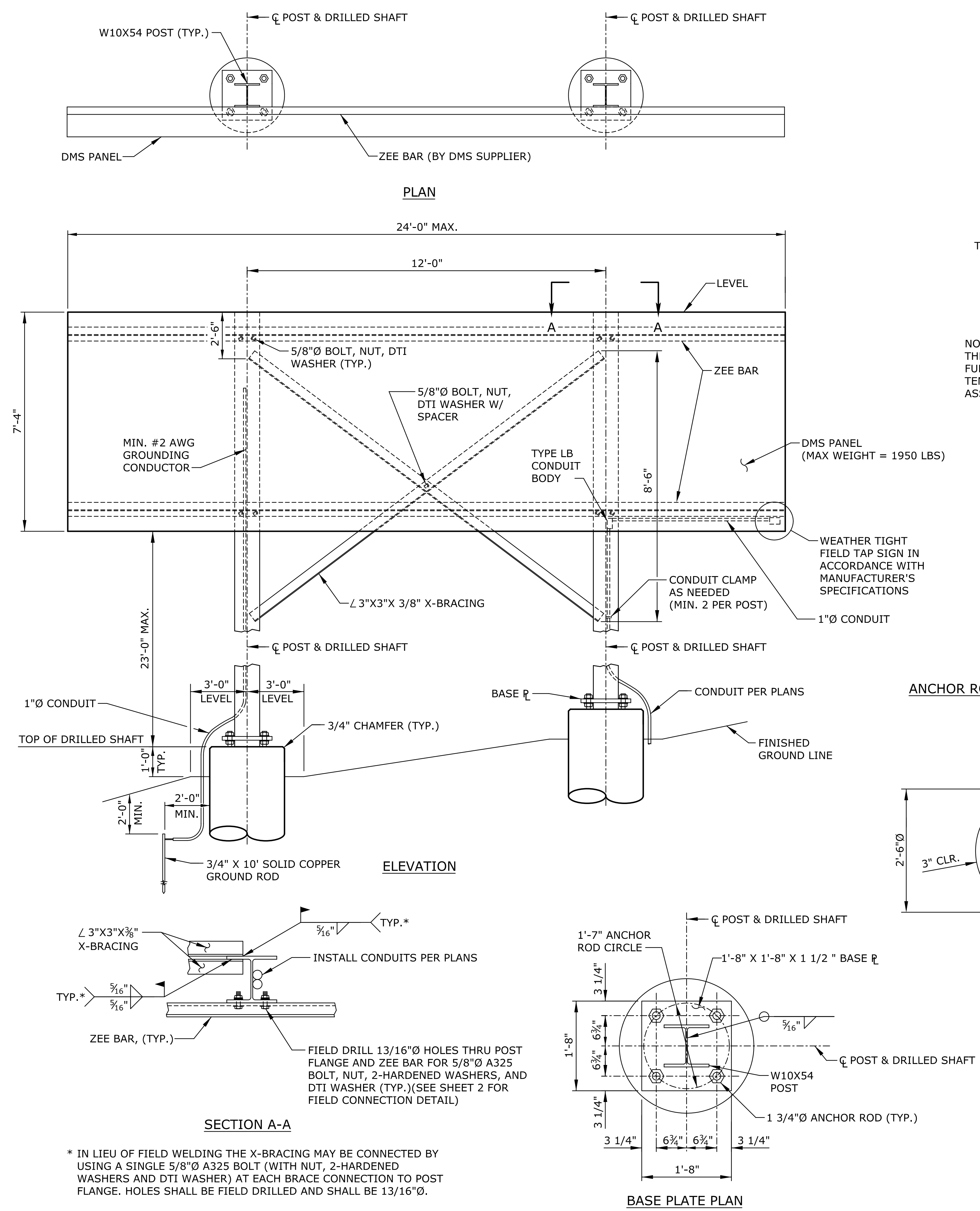


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0673-01	2017	70	99

NOTES FOR DMS STRUCTURE

- THESE FOUNDATION DETAILS SHALL ONLY BE USED TO SUPPORT THE DMS STRUCTURE FOR THE HEIGHTS SPECIFIED.
- ANCHOR ROD NUTS SHALL BE TIGHTENED IN A STAR PATTERN. SEE DETAIL THIS SHEET.
- DESIGN SPECIFICATIONS:
2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS (6th EDITION)
2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17th EDITION)
- DESIGN LOADS:
DESIGN LIFE = 50 YR.
BASIC WIND SPEED = 90 MPH
GUST EFFECT FACTOR G = 1.14
- MATERIALS:
CONCRETE (GRADE 4.0)(AE)(f_c = 4 KSI)
REINFORCING STEEL (GRADE 60)(f_y = 60 KSI)
ALL REINFORCING SHALL CONFORM TO ASTM A615
STRUCTURAL STEEL (GRADE 50)
ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 OR ASTM A572
SOILS GEOTECHNICAL DATA AVAILABLE TO CONTRACTOR UPON REQUEST
BOLTS:
ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325 AND BE HOT-DIP GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153, CLASS C.
ANCHOR ROD ASSEMBLY:
ANCHOR RODS, HEAVY HEX NUTS, AND HARDENED WASHERS WILL ADHERE TO KDOT STANDARD SPECIFICATION SECTION 1600. ANCHOR RODS SHALL BE AASHTO M314 GRADE 55 AND THE THREADS SHALL BE ROLLED. ANCHOR ROD TEMPLATE SHALL CONFORM TO ASTM A709, GRADE 36 STEEL.
ALL PORTIONS OF THE ANCHOR ROD ASSEMBLIES SHALL BE HOT DIP GALVANIZED AS PER ASTM A153.
DIRECT TENSION INDICATOR (DTI) WASHERS WILL ADHERE TO KDOT STANDARD SPECIFICATION SECTION 1600.
- ANCHOR ROD ASSEMBLY INSTALLATION:
CAST ANCHOR ROD ASSEMBLY IN DRILLED SHAFT AS INDICATED ON THE PLANS.
CLEAN ALL EXPOSED ANCHOR ROD THREADS OF DEBRIS.
LUBRICATE ALL EXPOSED ANCHOR ROD THREADS AND TOP SURFACE OF HARDENED FLAT WASHER (THAT CONTACTS TOP NUT) WITH AN APPROVED WAX.
INSTALL ALL HARDWARE TO SUPPORT POLE BASEPLATE AS SHOWN ON THE PLANS AND TIGHTEN ASSEMBLIES IN ACCORDANCE WITH KDOT STANDARD SPECIFICATION SECTION 738.3E.
- FOUNDATION:
CONSTRUCT DRILLED SHAFTS ACCORDING TO DRILLED SHAFT (SPECIAL) SPECIAL PROVISION. CONTRACTOR SHALL VERIFY DRILLED SHAFT LOCATIONS AND TOP ELEVATIONS PRIOR TO FABRICATING STRUCTURAL STEEL SUPPORT MEMBERS.
- FIELD DRILLING OF HOLES IN STRUCTURAL STEEL SUPPORT MEMBERS IS ALLOWED AS SHOWN OR BY APPROVAL OF THE ENGINEER. ANY DAMAGE TO THE GALVANIZED COATING SHALL BE REPAIRED WITH ZINC PRIMER COATING ACCORDING TO KDOT STANDARD SPECIFICATIONS.
- GALVANIZING:
ALL MATERIAL SHALL BE HOT-DIP GALVANIZED ACCORDING TO ASTM A123, AFTER FABRICATION, UNLESS OTHERWISE NOTED. ANY DAMAGE TO THE COATING SHALL BE REPAIRED AFTER ERECTION.
- DTI'S ARE TO COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF ASTM F2437. INSTALLATION WILL ADHERE TO THE KDOT STANDARD SPECIFICATIONS. ONE FLAT WASHER TO BE PLACED BETWEEN DTI AND NUT OR BOLT HEAD.
- DMS SIGN:
DMS SIGN MANUFACTURER SHALL SUBMIT SHOP DRAWINGS OF DMS SIGN FOR APPROVAL. SEE PLAN DETAILS FOR INSTALLATION ANGLE WITH RESPECT TO ROADWAY CENTERLINE.



* IN LIEU OF FIELD WELDING THE X-BRACING MAY BE CONNECTED BY USING A SINGLE 5/8"Ø A325 BOLT (WITH NUT, 2-HARDENED WASHERS AND DTI WASHER) AT EACH BRACE CONNECTION TO POST FLANGE. HOLES SHALL BE FIELD DRILLED AND SHALL BE 13/16"Ø.

Drawn By : examples
File : C-DMS-ITS-501.dgn
Plotted : 14-NOV-2017 10:55

KANSAS DEPARTMENT OF TRANSPORTATION				
NO.	DATE	REVISIONS	BY	APP'D
GROUND-MOUNTED DMS STRUCTURE DETAILS SHEET 1 OF 2				
APP'D	DESIGNED	TMG DETAILED	TLW	QUANTITIES
DESIGN CK.	BLA	DETAIL CK.	QUAN. CK.	TRACED
				TRACE CK.