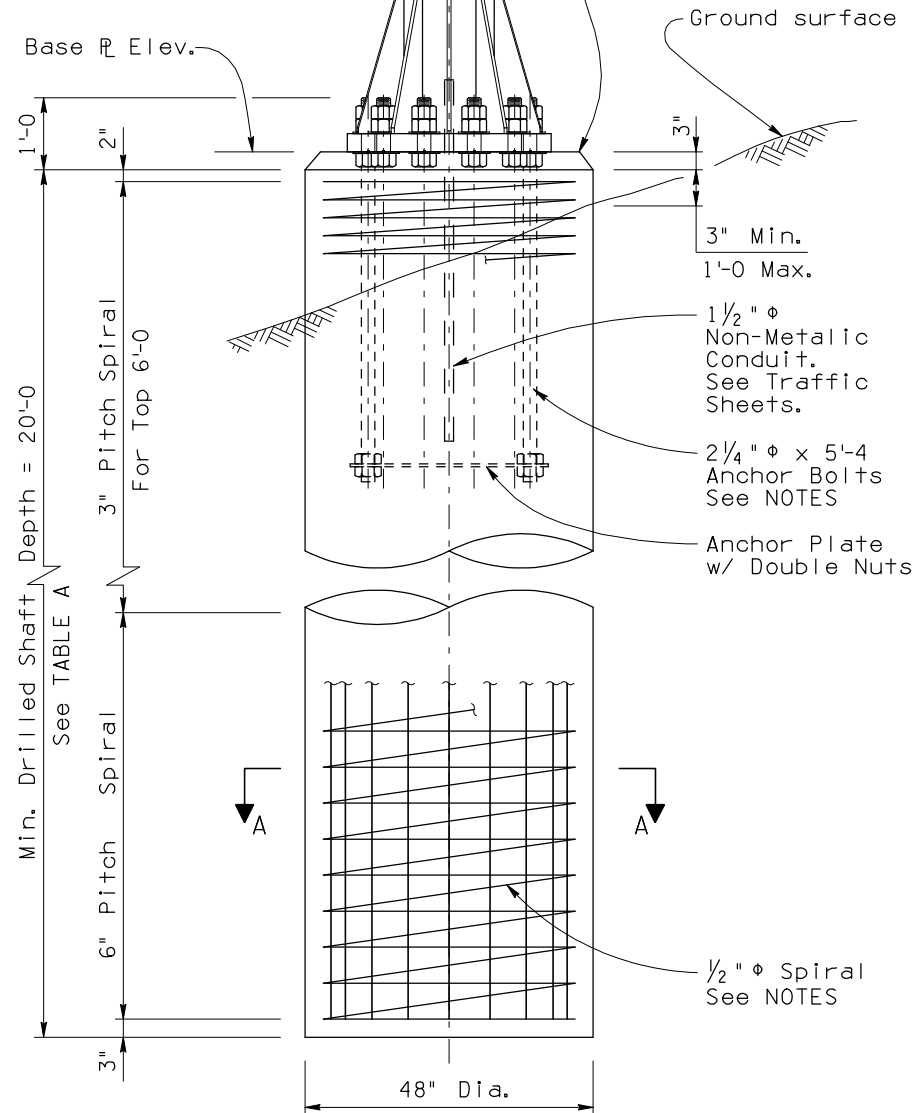


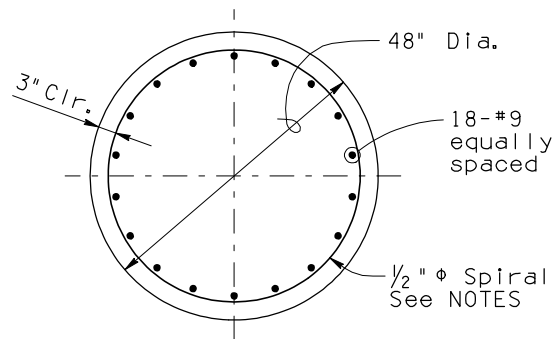
NOTE:

Provide 2 Hardened Steel washers, 2 Hex nuts and one Leveling nut for each bolt. At final position of post, all top and bottom nuts of anchor bolts shall be snug tightened against base plate.

Space to be filled with non shrink grout after tubular structure is permanently erected.



ELEVATION



DRILLED SHAFT DETAILS

TABLE A	
Max. Slope	'X'
8:1	0'
6:1	1'
4:1	2'
2:1	4'
1 1/2:1	5'
1:1	8'

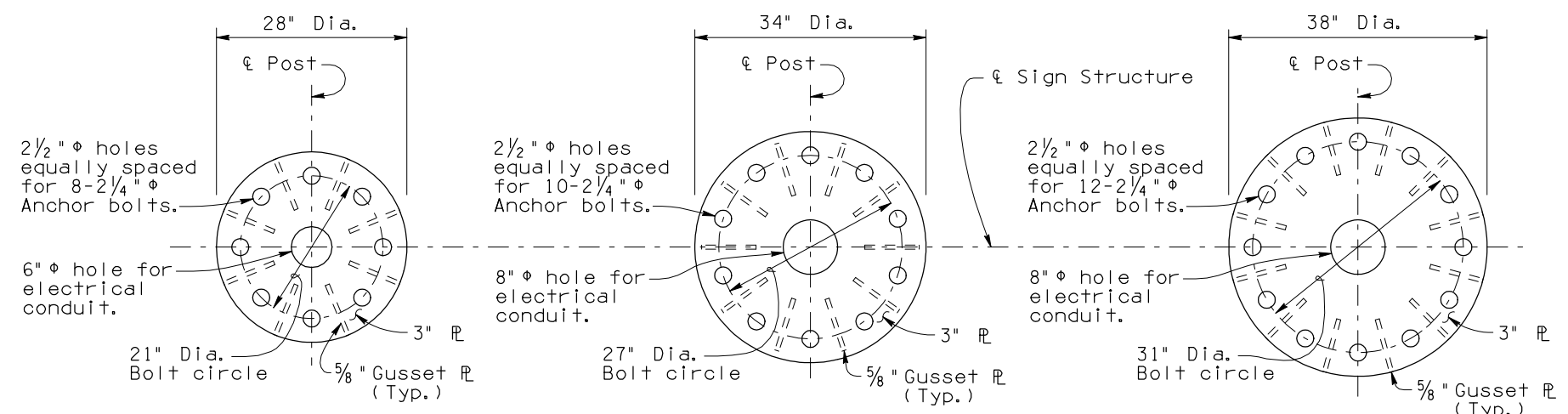
Drilled Shaft Depth shall be adjusted for ground slope. Add value of 'X' in TABLE A to the Min. Drilled Shaft Depth to obtain the total length of shaft.

Note to Designer: The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

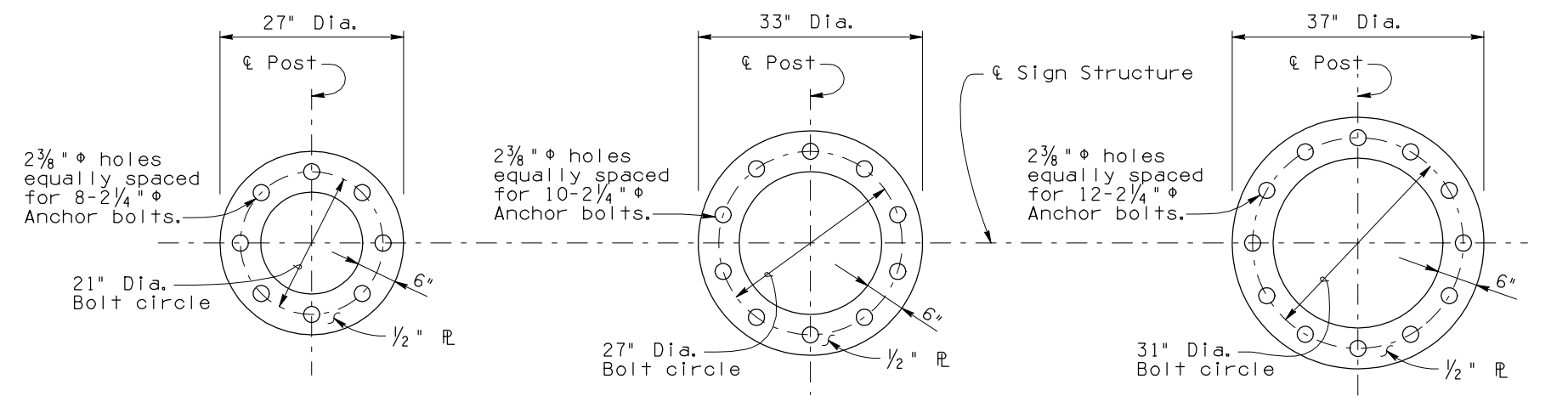
NO.	DESCRIPTION OF REVISIONS	DATE
1	Original Issue	6-01
2	General Update	3-11
3		
4		

NOTE:

Gusset plates shall be placed perpendicular to base plate and post face and centered between anchor bolt holes.



BASE PLATE DETAILS



ANCHOR PLATE DETAILS

NOTES:

All anchor bolts shall conform to ASTM F1554 Grade 55 Specifications. The upper 1'-2" and lower 6" shall be threaded. The upper 1'-8" shall be galvanized in accordance with the requirements of ASTM A153.

Provide bolt template during installation of anchor bolts. The bolt template shall be fabricated of 1/4" thick (Min.) steel plate, similar to anchor plate details, and shall be match drilled to each base plate.

Drilled shaft concrete shall be class 'S' and shall be placed within undisturbed material or compacted embankment. Top of drilled shaft shall be formed to 1'-0" below ground surface. Compacted backfill shall be in place prior to erecting post.

1/2" diameter spiral shall be cold drawn steel wire conforming to AASHTO M32 except Min. Tensile Strength = 60,000 psi. Lap 1/2 turns at top and bottom of spiral.

DESIGN APPROVED <i>Shafiq U. Hasan</i>		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL	
APPROVED FOR DISTRIBUTION <i>Teon A. Nehme</i>		TUBULAR SIGN STRUCTURES TUBULAR FRAME FOUNDATION DETAILS	
ROUTE	PROJECT NO.	FA NO.	DRAWING NO. SD 9.20 (2 of 5)
LOCATION			SHEET NO. OF