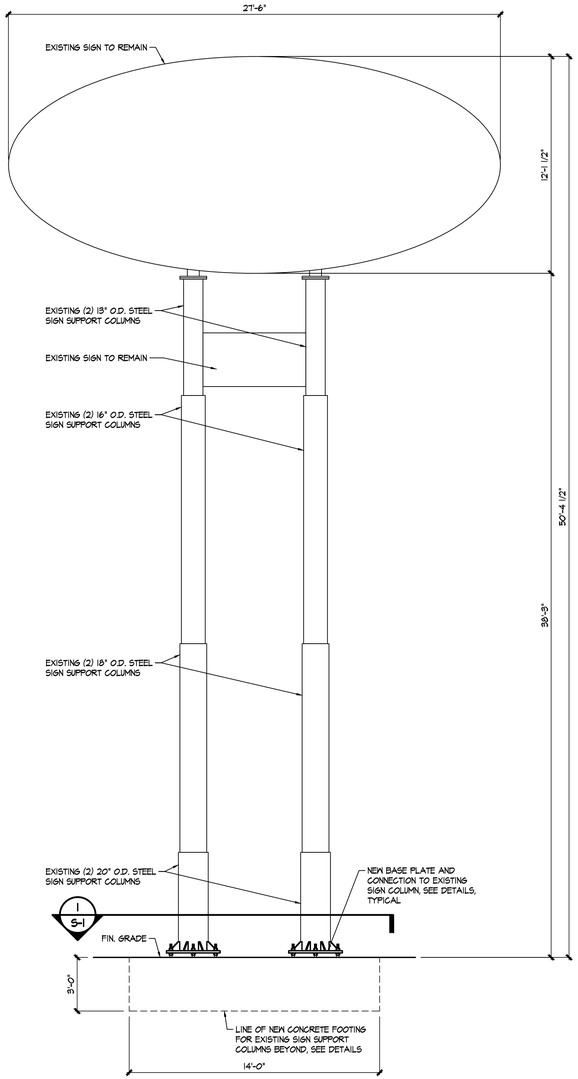
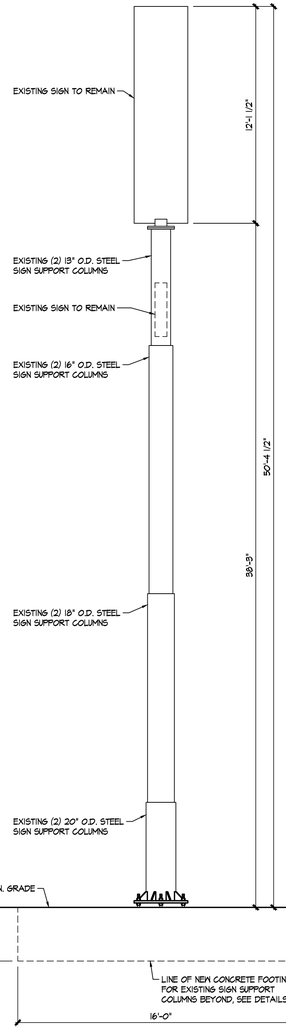


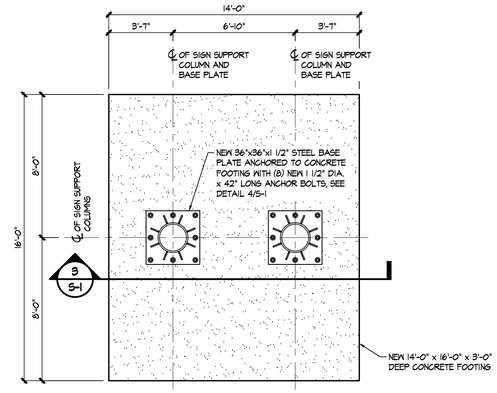
FRONT/REAR ELEVATION

SCALE: 1/4" = 1'-0"



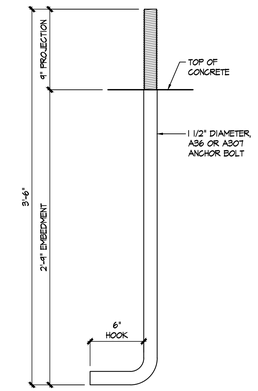
SIDE ELEVATION

SCALE: 1/4" = 1'-0"



1 S-1 FOUNDATION PLAN

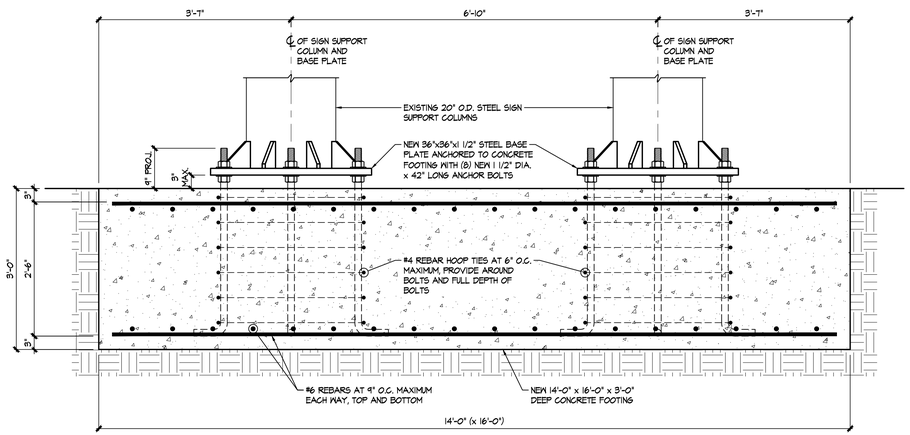
SCALE: 1/4" = 1'-0"



2 S-1 DETAIL

SCALE: 1 1/2" = 1'-0"

NEW ANCHOR BOLT



3 S-1 SECTION

SCALE: 3/4" = 1'-0"

NEW SIGN FOOTING

STRUCTURAL NOTES

GENERAL

1. THESE STRUCTURAL NOTES ARE AN INTEGRAL PART OF THE STRUCTURAL DRAWINGS AND ARE TO BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. WHEN THERE ARE NO SPECIFICATIONS IN ADDITION TO THESE NOTES THE NOTES SHALL GOVERN. WHEN THERE IS A SPECIFICATION IN ADDITION TO THE NOTES THE MORE STRINGENT OF THE TWO SHALL GOVERN.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS AT THE JOB SITE.
3. U.N.O. MEANS "UNLESS NOTED OTHERWISE".
4. ALL WORK SHALL COMPLY WITH THE NC STATE BUILDING CODE 2018 EDITION. ALL SPECIFICATIONS REFER TO THE YEAR EDITION OF THE SPECIFICATION AS REFERENCED WITHIN THE BUILDING CODE.

FOUNDATIONS

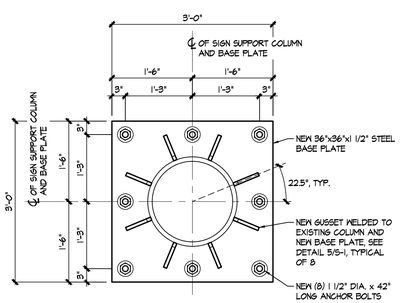
1. ALL NEW FOOTINGS SHALL BE FOUNDED ON SOILS HAVING AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF. THE CONTRACTOR SHALL HAVE THE SOIL BEARING CAPACITY FIELD VERIFIED BY A NC PROFESSIONAL ENGINEER SPECIALIZING IN GEOTECHNICAL ENGINEERING. SHOULD SOIL IMPROVEMENTS BE NECESSARY TO MEET THE SPECIFIED BEARING CAPACITY, THE CONTRACTOR SHALL REPLACE AND/OR REINFORCE THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. IN GENERAL, REMOVE TOPSOIL, ORGANICS, SOFT CLAY, AND ANY OTHER UNSUITABLE SOILS FROM UNDER ALL FOUNDATIONS. PROOFROLL THE EXPOSED SUBGRADE AS RECOMMENDED BY THE PROJECT GEOTECHNICAL ENGINEER IN ORDER TO DENSIFY THE EXPOSED SUBGRADE AND TO FURTHER LOCATE ANY UNSUITABLE SOILS. BACKFILL AS REQUIRED WITH CLEAN SELECTED FILL COMPACTED IN 8 INCH LAYERS TO 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. (ASTM D-698)
3. WHEN THE BOTTOM OF ANY NEW FOOTING IS LOCATED AT OR BELOW THE GROUND WATER LEVEL, PROPERLY DEWATER THE FOUNDATION EXCAVATION PRIOR TO PLACING CONCRETE.
4. AN IMAGINARY 45 DEGREE LINE EXTENDING DOWNWARD AND OUTWARD FROM THE BOTTOM CORNER OF ANY EXISTING FOUNDATION SHALL NOT INTERSECT ANY INTENDED EXCAVATION FOR ADJACENT NEW FOUNDATIONS OR UTILITIES U.N.O.

CONCRETE

1. REINFORCED CONCRETE WORK SHALL COMPLY WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318.
2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R. DURING HOT WEATHER THE CONTROL OF PLACEMENT, PROTECTION, AND CURING SHALL COMPLY WITH ACI 305R. WHEN THE MEAN DAILY TEMPERATURE IS BELOW 40 DEGREES F, THE CONTROL OF PLACEMENT, PROTECTION, AND CURING SHALL COMPLY WITH ACI 306R.
3. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 3000 PSI.
4. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
5. CLEAR CONCRETE COVER ON REINFORCING: BOTTOM AND TOP OF FOOTINGS = 3 INCHES, SIDE OF FOOTINGS = 2 INCHES.
6. DOWELS AND CONTINUOUS REINFORCING SHALL HAVE A MINIMUM LAP SPLICE OF 36 BAR DIAMETERS.
7. PROVIDE AIR ENTRAINMENT OF 4% TO 6% IN CONCRETE EXPOSED TO FREEZE/THAW ACTION. DO NOT PROVIDE ADDITIONAL AIR ENTRAINMENT FOR INTERIOR SLABS ON GRADE.
8. PROVIDE CLASS 3 BAR AND MESH SUPPORTS.

STRUCTURAL DESIGN CRITERIA

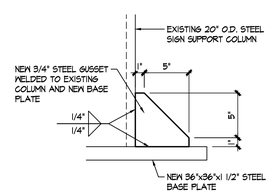
SOIL BEARING CAPACITY:	2,000 PSF (ASSUMED)
LATERAL SOIL CAPACITY:	200 PLF (ASSUMED)
WIND SPEED:	109 MPH (ULTIMATE)
WIND EXPOSURE CATEGORY:	B
OCCUPANCY CATEGORY:	I



4 S-1 DETAIL

SCALE: 3/4" = 1'-0"

NEW BASE PLATE



5 S-1 DETAIL

SCALE: 3/4" = 1'-0"

NEW STEEL GUSSET

SMITH ENGINEERING AND DESIGN, P.A.
1103 Gracie Pl., Suite A
Goldsboro, N.C. 27534
Corporation License No. C-2241
Phone: 919.736.2141 Fax: 919.736.2142

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 024916 6-17-20 JOE T. SMITH, JR.

REVISIONS

NO.	DATE	DESCRIPTION

New Sign Foundation for:

TLG Peterbilt-Dunn

1185 Sadler Road,
Dunn, North Carolina 28334

DATE: 17 June 2020
DRAWN BY: T.B.
SCALE: AS NOTED

S-1