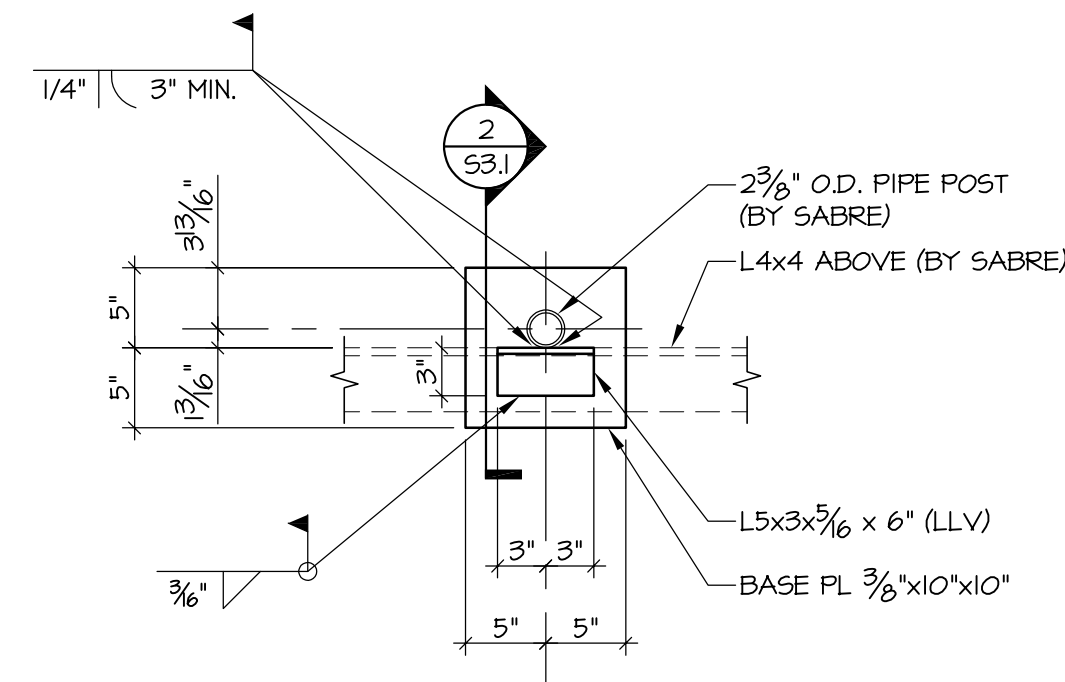
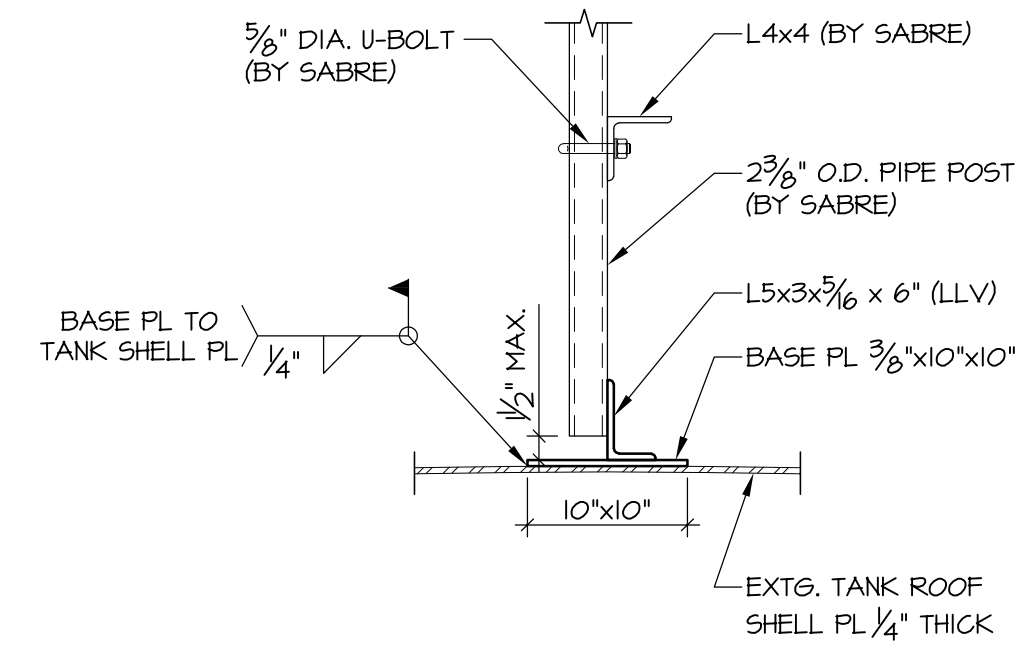


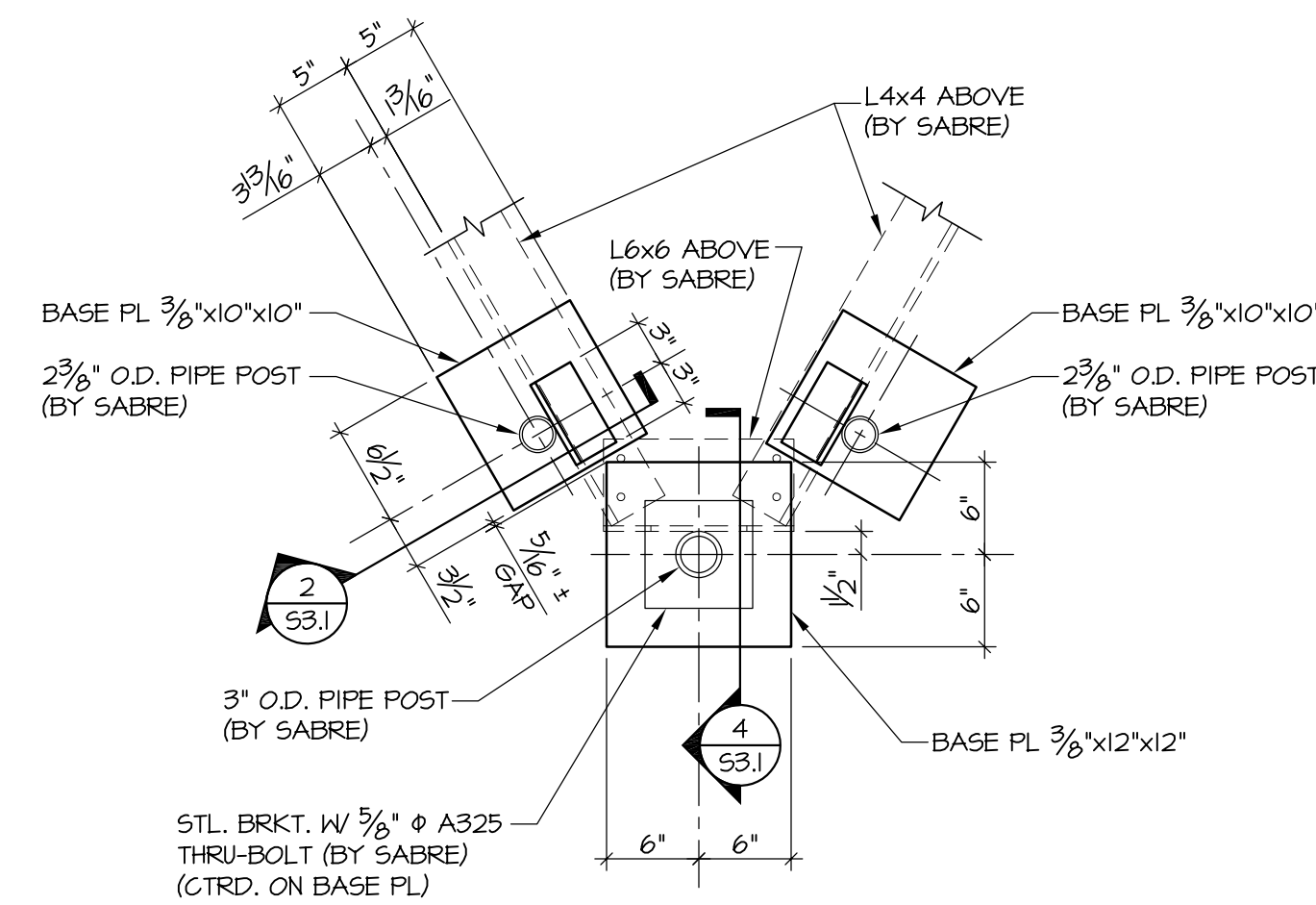
**Minor Water Tower Upgrades for New Telecom Platform & Equip. Installation - Site #1 (RED)**  
Boone County Joint Communications - 911  
Ashland, Boone County, MO



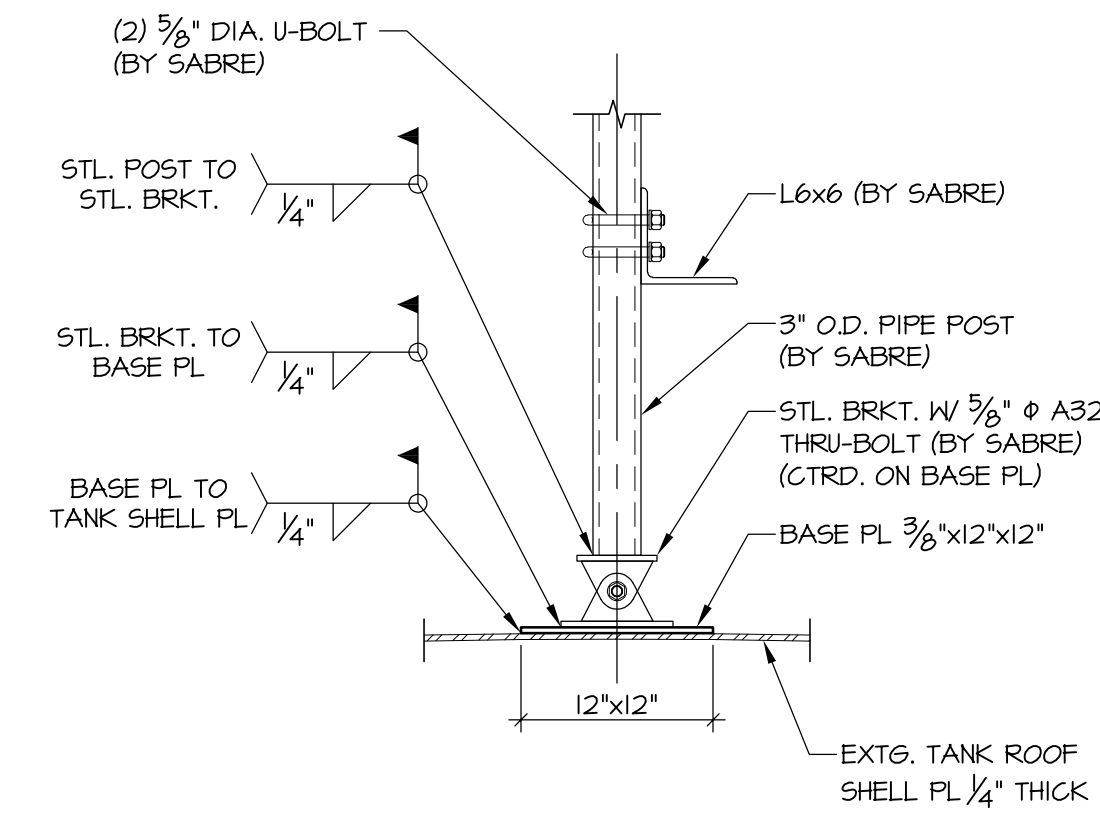
**1**  
S3.1 TYP. POST BASE DETAIL  
(AT 2 3/8" O.D. POST EXCEPT AT CORNERS SEE 3/S3.1)  
SCALE: 1" = 1'-0"



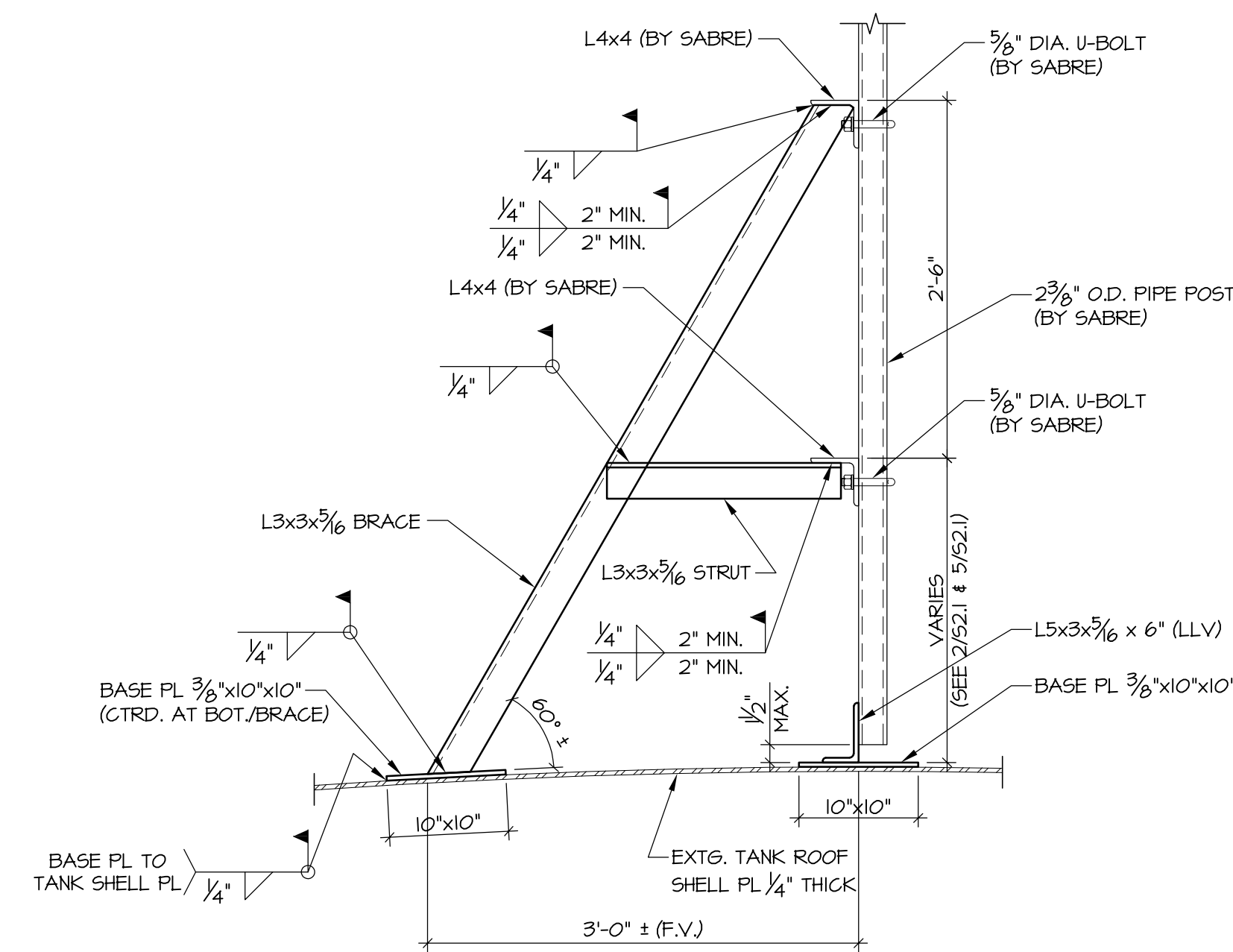
**2**  
S3.1 FRAMING SECTION  
SCALE: 1" = 1'-0"



**3**  
S3.1 TYP. POST BASE DETAIL AT CORNER  
SCALE: 1" = 1'-0"



**4**  
S3.1 FRAMING SECTION  
SCALE: 1" = 1'-0"



**5**  
S3.1 TYP. SECTION AT L3x3 BRACE / STRUT  
SCALE: 1" = 1'-0"

**DESIGN / CONSTRUCTION STANDARDS:**

1. WATER STORAGE TANK	AWWA D100-2011 & ASCE/SEI 7-2010
2. TELECOM EQUIP. PLATFORM (ANTENNA CORRAL)	ANSI/TIA-222-G 2005 & ADDENDUMS (THRU 2012) & ASCE/SEI 7-2010
3. STRUCTURAL STEEL:	AISC 14th EDITION AISC 360-10

**STRUCTURAL STEEL NOTES:**

- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STEEL CONSTRUCTION," 14TH EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS," 2010 EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE STRUCTURAL WELDING CODE (AWS D11), LATEST EDITION, BY THE AMERICAN WELDING SOCIETY.
- STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:  
ROUND HSS SHAPES                      ASTM A500, GR. B (F<sub>y</sub>=42 KSI)  
FLATES, ANGLES                         ASTM A36 (F<sub>y</sub>=36 KSI)
- ALL STRUCTURAL SHOP AND FIELD WELDING SHALL BE MADE WITH ELECTRODES DESIGNATED BY ETOXX LOW HYDROGEN, IN ACCORDANCE WITH AWS D11, PERFORMED BY AWS CERTIFIED WELDERS.  
3.1. THE MINIMUM FILLET WELD SIZE SHALL BE 1/4" UNLESS OTHERWISE APPROVED BY THE S.E.O.R., OR AS NOTED IN THESE CONTRACT DRAWINGS.
- SURFACE PREPARATION FOR ALL STEEL SHALL BE SSFC-SPC (COMMERCIAL BLAST CLEANING).
- ALL STEEL SHALL BE PRIMED. PRIMER SHALL BE COORDINATED WITH WATER TOWER COATING CONTRACTOR TO ENSURE COMPATIBILITY BETWEEN PRIMER AND FINISH COATINGS.
- STRUCTURAL STEEL FABRICATION SHALL NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY THE STRUCTURAL-ENGINEER-OF-RECORD.

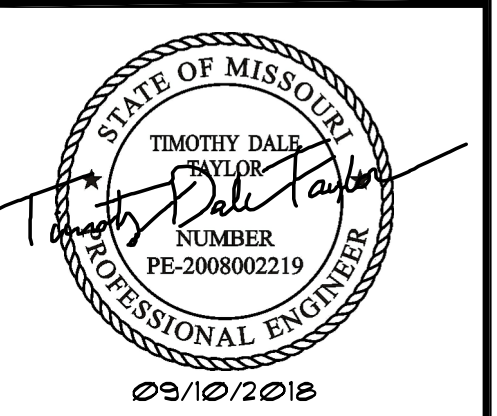
**EXTG. WATER TANK WELDING NOTES:**

- ALL WELDING TO THE TANK STRUCTURE SHALL COMPLY WITH THE CURRENT ANSI/AWWA D100 STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE AND FEDERAL, STATE AND LOCAL CODES IN ADDITION TO AWS D11 STRUCTURAL WELDING CODE - STEEL.
- WELD SMOOTH AND AVOID UNDERCUTS AND BURRS. GRIND ALL WELDS SMOOTH SO THAT NO SHARP PROTRUSIONS REMAIN. SMOOTH IS DEFINED AS: "NO CUTS OR ABRASIONS OCCUR WHEN RUBBING YOUR HAND OVER WELD." UNACCEPTABLE WELDS SHALL BE REPAIRED AS REQUIRED TO MEET AWWA D100 REQUIREMENTS. ALL WELDS SHALL COMPLY WITH AWWA D100 SECTION 8.17 AND SECTIONS 10.1, 10.2, 10.3 AND 10.4.
- PROTECT TANK SURFACES WITH WELDING BLANKETS ADJACENT TO WORK AREAS WHERE CUTTING, GRINDING AND WELDING ARE REQ'D.
- WELDING TO THE TANK OR ACCESS TUBE OPPOSITE THE WATER LEVEL IS NOT PERMITTED. THE WATER LEVEL SHALL BE DRAWN DOWN TO A LEVEL TWO FEET BELOW THE POINT OF WELDING.
- NO WELDING SHALL BE DONE WHEN THE AMBIENT TEMPERATURE IS BELOW 32 DEGREES FAHRENHEIT UNLESS THE REQUIREMENTS OF AWWA D100, SECTION 10.3 ARE MET.
- WELDING MAY CAUSE BLISTERING OF THE INTERIOR PAINT OPPOSITE THE WELD. ALL DAMAGED PAINT SURFACES INSIDE AND OUT SHALL BE REPAIRED. EXTERIOR PAINT DAMAGE SHALL BE REPAIRED AFTER COMPLETION OF THE ANTENNA INSTALLATION. CONTRACTOR IS TO COORDINATE WITH TOWER OWNER ON EXISTING PAINT SYSTEM.

**OSHA NOTES:**

- ALL SAFETY AND OSHA REGULATIONS SHALL BE FOLLOWED STRICTLY. METHODS OF CONSTRUCTION AND ERECTION OF ALL STRUCTURAL MATERIALS ARE THE CONTRACTOR'S RESPONSIBILITY.
- DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS AS STATED IN 29 CFR PART 1926, SUBPART R.

REVISIONS:

Timothy Dale Taylor, PE  
MO# PE-2008002219

TSE PROJECT NO.: 1712.04  
DATE: 09/10/18  
ISSUE: CONSTRUCTION  
SHEET TITLE: FRAMING DETAILS

SHEET NO.: **S3.1**