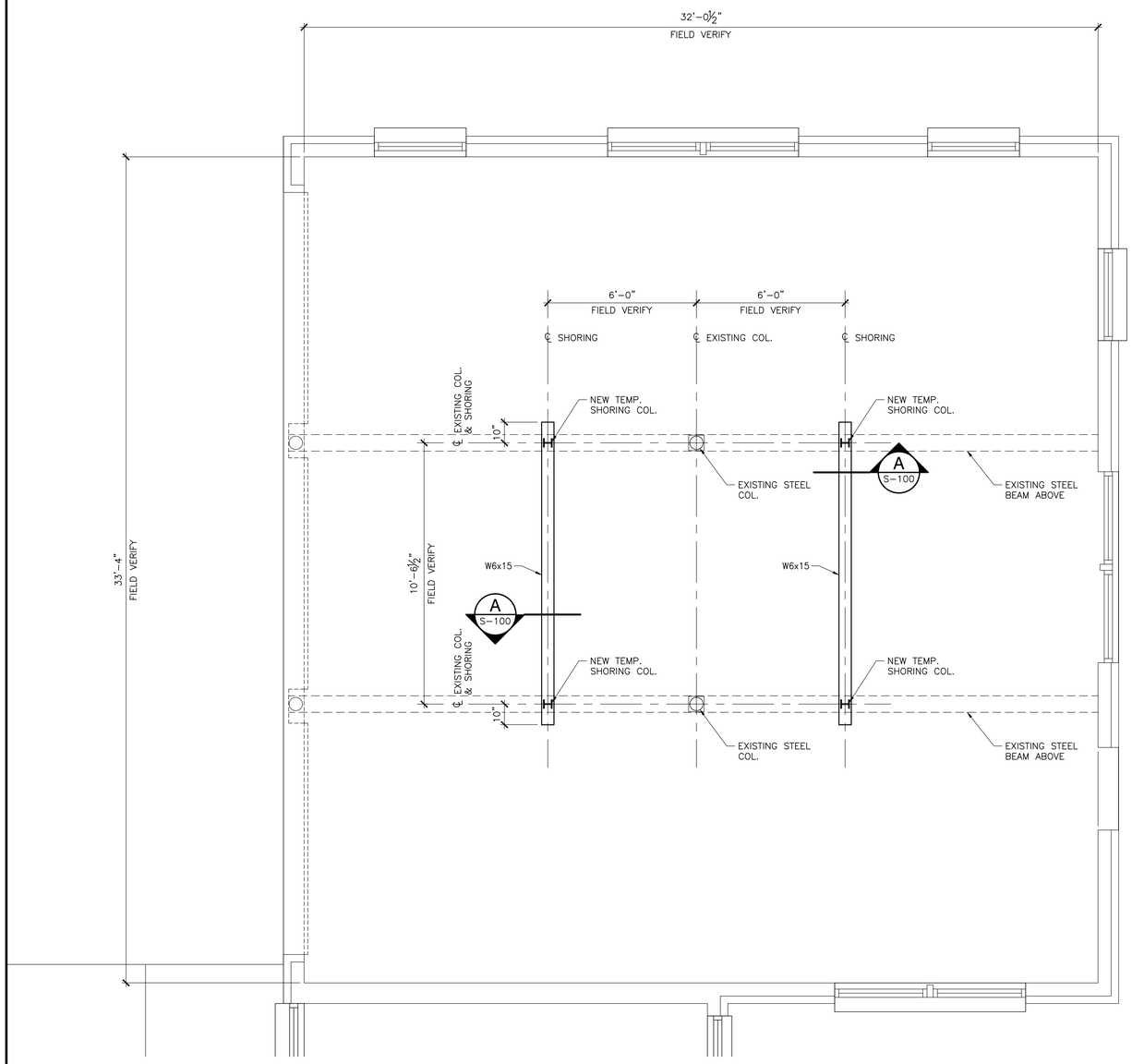

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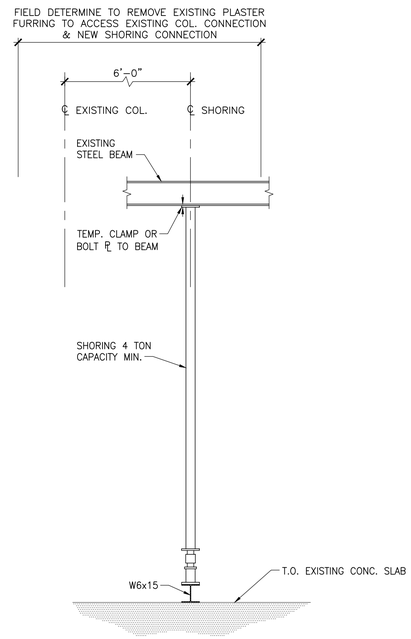
PLAN NORTH

1 S-100 SHORING PLAN
SCALE: 3/8"=1'-0"

GENERAL NOTES:

1. ALL DETAILS ARE TYPICAL, INCORPORATED INTO PROJECT AT APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT.
2. ALL CONSTRUCTION, INCLUDING MATERIAL AND WORKMANSHIP, SHALL CONFORM TO THE PROVISIONS OF THE 2015 IBC AND STANDARDS REFERENCED THEREIN.
3. ALL ASTM STANDARDS LISTED HEREIN, SHALL BE AS REFERENCED IN THE LATEST ISSUE OF THE ANNUAL BOOK OF STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE STRUCTURAL ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING, OF ANY DISCREPANCIES.
5. ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. WORK SHOULD NOT PROCEED UNTIL A SOLUTION IS GIVEN BY THE STRUCTURAL ENGINEER.
6. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES". TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OF DRAWING.
7. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
8. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THESE STRUCTURAL DRAWINGS.
9. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION SHORING AND BRACING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION.
10. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLACKOUTS, ETC. SHALL NOT BE PLACED IN SLABS, BEAMS, GIRDERS, COLUMNS, WALLS, FOUNDATION, ETC. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS. (IF ANY PIPES, DUCTS, ETC. DO OCCUR, THAT ARE NOT SHOWN ON THESE STRUCTURAL DRAWINGS, THE AND STRUCTURAL ENGINEER SHALL BE NOTIFIED)
11. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE STRUCTURAL ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE STRUCTURAL ENGINEER.
12. IF ANY SUBSTITUTION IS PROPOSED BY THE CONTRACTOR, NEW CALCULATIONS MAY HAVE TO BE PREPARED, THE DETAILS MAY HAVE TO BE ALTERED, ANY NEW DRAWINGS MAY HAVE TO BE SUBMITTED TO THE ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL PAY THE STRUCTURAL ENGINEERS FEES TO ALTER THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO PROCESS THE REVISED PLANS REFLECTING ALL SUBSTITUTIONS THROUGH THE ENGINEERING DEPARTMENT.



A S-100 SECTION AT SHORING
SCALE: 1/2"=1'-0"

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.
3. REINFORCING STEEL TO HAVE 3" MINIMUM COVER WHERE CONCRETE IS CAST AGAINST EARTH. UNLESS NOTED OTHERWISE ALL OTHER REINFORCING SHALL HAVE 2" MINIMUM CONCRETE COVER, TYPICAL.
4. REINFORCING STEEL MATERIAL TO BE ASTM A-615, GRADE 60 UNLESS NOTED OTHERWISE.
5. UNLESS NOTED OTHERWISE ALL REINFORCING STEEL SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 LATEST REVISION. (MINIMUM 40 BAR DIAMETERS)
6. ALL ADDITIVES FOR AIR ENTRAINMENT, WATER REDUCTION, AND SET CONTROL SHALL BE USED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE MANUFACTURER'S DIRECTIONS. THE USE OF CALCIUM CHLORIDE AND FLY ASH ARE PROHIBITED UNLESS APPROVED IN WRITING BY THE ENGINEER.
7. ALL BACKFILL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO 95% STD. PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE GRANULAR HAVING A P.I. OF BETWEEN 7 AND 18 AND LIQUID LIMIT OF 40%.
8. PORTLAND CEMENT SHALL BE A SINGLE BRAND CONFORMING TO ASTM C-150:
   a. TYPE I/II FOR 4000 PSI.....CONCRETE INLAY
   b. TYPE III FOR 4000 PSI.....CONCRETE FOOTING; UNLESS OTHERWISE APPROVED BY THE ENGINEER.
9. THE MAXIMUM NOMINAL SIZES OF COARSE AGGREGATE SHALL BE AS FOLLOWS:
   FOUNDATIONS .....1"
10. CONCRETE SLUMP SHALL BE 4" (±1").
11. STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS."
12. EACH AREA OF CONCRETE WORK SHALL BE FINISHED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS.
13. CONDUIT, GROUND WIRES, DRAIN, ETC., ARE TO BE IN PLACE BEFORE CONCRETE IS PLACED.
14. ALL REINFORCING BARS SHALL BE WIRE-TIED AT EVERY OTHER INTERSECTION. ALL REINFORCING BAR SHALL BE SUPPORTED WITH CHAIRS AT EVERY 4'-0" ON CENTER OR EVERY 4TH BAR INTERSECTION. ALL REINFORCING BARS THAT ARE SUPPORTED AT INTERSECTIONS SHALL BE TIED TOGETHER.
15. PLATES, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM A36, A194, RESPECTIVELY, LATEST EDITION.
16. ANCHOR RODS SHALL BE HOT-DIP GALVANIZED AND CONFORM TO F1554-36 AS NOTED ON DRAWINGS.
17. ALL ANCHOR RODS SHALL BE PROVIDED WITH TWO NUTS AND WASHERS EACH. NUTS TO BE AMERICAN STANDARD HEAVY HEX C.P.S.F.
18. THREADS SHALL BE UNC-2.
19. ON SHOP-FABRICATED ANCHOR BOLTS, BOTTOM NUT SHALL BE TACK-WELDED IN SHOP BEFORE GALVANIZING.
20. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED AS FOLLOWS:
    1" MAX. AGGREGATE ..... 3% TO 6%
    3/4" MAX. AGGREGATE ..... 3-1/2% TO 6-1/2%
21. MINIMUM COVER UNLESS NOTED:
    a. CONCRETE CAST AGAINST & EXPOSED TO EARTH .....3"
    b. CONCRETE EXPOSED TO EARTH OR WEATHER:
       #6 THRU #18 BARS .....2"
       #5 BAR AND SMALLER .....1 1/2"
    c. CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS AND JOISTS:
       #11 BAR AND SMALLER .....3/4"
       BEAMS & COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS .....1 1/2"

SUGGESTED SEQUENCE FOR SHORING SYSTEM:

1. ONLY ONE COLUMN SHALL BE SHORED AND REPLACED AT A TIME.
2. ERECT THE SHORING ON EACH SIDE OF THE COLUMN WITH THE W-SHAPE BEAM SPANNING PERPENDICULAR TO THE EXISTING BEAMS.
3. THE 12-TON HYDRAULIC JACK WILL BE PLACED AND SECURE ON THE BEAM APPROXIMATELY 6' FROM THE EXISTING COLUMN ON BOTH SIDES.
4. THE LIFTING OF THE BEAM WILL BE LIMITED TO NO MORE THAN ¼" TO ½" TO ALLEVIATE ALL LOADING FROM EXISTING COLUMNS.
5. ONCE LOADING HAS BEEN REMOVED FROM EXISTING COLUMN, COLUMN SHALL BE REMOVED & STORED FOR RE-USE.
6. CONTRACTOR SHALL DEMO EXISTING CONCRETE IN AREA TO RECEIVE NEW CONCRETE FOOTING AS INDICATED ON SHEET S-101.
7. CONTRACTOR SHALL INSTALL NEW CONCRETE FOOTING USING HIGH EARLY STRENGTH CONCRETE.
8. EXISTING COLUMNS SHALL BE REINSTALLED ONCE NEW CONCRETE HAS ACHIEVED 4000 PSI COMPRESSIVE STRENGTH.
9. AFTER THE COLUMNS ARE RE-INSTALLED, THE HYDRAULIC PRESSURE IN THE PISTON OF THE JACK WILL BE RELEASED TO TRANSFER LOAD TO THE REINSTALLED COLUMNS.

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

2' 1' 0' 2' 4'
SCALE: 3/8"=1'-0"

ISSUES / REVISIONS

NO	DATE	DESCRIPTION	BY

RENOVATION TO EXISTING FIRE STATION
NUECES COUNTY BUILDING
BISHOP, TEXAS

SHORING PLAN, DETAIL & GENERAL NOTES

TBPE FIRM NO. F-366
TBPLS FIRM NO. 10126500

LNV engineers | architects | surveyors
801 NAVIGATION, SUITE 200
CORPUS CHRISTI, TX 78408
PH. (361) 883-1984
FAX (361) 883-1988
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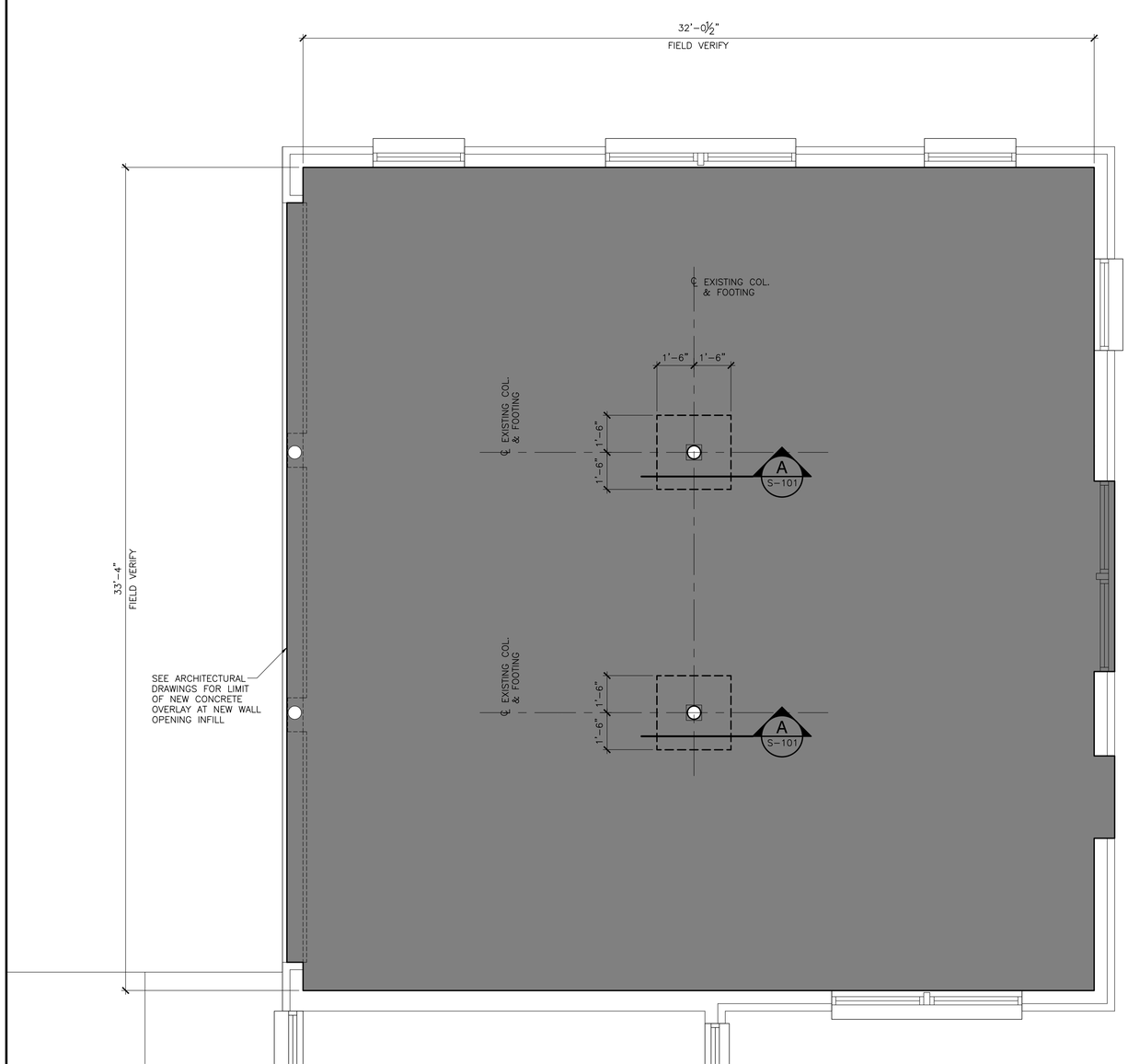
DRAWING NO. S-100 of 02

SHEET NO:	02 of 14
DRAWN BY:	CK
CHECKED BY:	JS
APPROVED BY:	JS
JOB NO:	160155.000



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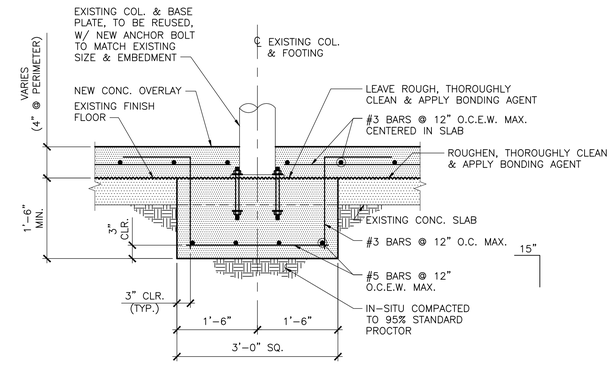
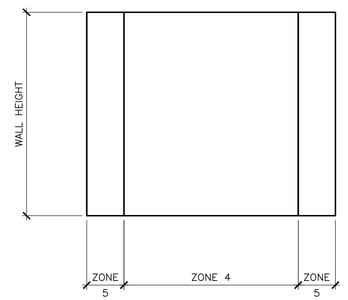
PLAN NORTH

1 / S-101 FOUNDATION PLAN
SCALE: 3/8"=1'-0"



A / S-101 FOOTING SECTION
SCALE: 3/4"=1'-0"



CORNER WALL ZONE 5 DIMENSION = 3'-0"

CORNER WALL ZONE 5 DIMENSION IS TAKEN FROM A WALL CORNER & EXCLUDES ROOF OVERHANGS

WALL PRESSURE	
ZONE	PRESSURE (psf)
4	30 psf
5	35 psf

2 / S-101 WALL ELEVATION COMPONENT & CLADDING WIND PRESSURES
N.T.S.

LEVELNESS TOLERANCE NOTE:

CONTRACTOR SHALL CONSTRUCT THE CONCRETE OVERLAY SO THAT THE FLOOR SHALL BE TRUE AND LEVEL TO A MAXIMUM TOLERANCE OF 1/8" IN 10 FEET.

LEGEND:

NEW CONCRETE OVERLAY

1' 6" 0' 1' 2'
SCALE: 3/4"=1'-0"

2' 1' 0' 2' 4'
SCALE: 3/8"=1'-0"

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STATE OF TEXAS
JENNIFER D. SCHEFFLER
111687
LICENSED PROFESSIONAL ENGINEER
06/24/16

JENNIFER D. SCHEFFLER, P.E. NO. 111687

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION	BY

RENOVATION TO EXISTING FIRE STATION
NUECES COUNTY BUILDING
BISHOP, TEXAS

FOUNDATION PLAN, SECTIONS & DETAILS

LNV engineers | architects | surveyors
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TBPLS FIRM NO. 10126500
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SHEET NO:	03 of 14
DRAWN BY:	CK
CHECKED BY:	JS
APPROVED BY:	JS
JOB NO:	160155.000