4. WIND LOADS:

A. LOADS BASED ON ASCE 7-05 WIND LOAD CRITERIA.

120 MPH

1.15

SEE LOADING NOTES, TABLES AND DIAGRAMS FOR DESIGN FORCES FOR COMPONENTS

FOUNDATION DESIGN IS BASED ON THE INFORMATION PROVIDED ON THE STRUCTURAL

DRAWINGS FOR THE ORIGINAL STRUCTURE BY TK&A ARCHITECTS AND DATED 2/28/03

FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 5 FEET BEYOND THE

REQUIRED TO REMOVE SIGNIFICANT ROOT ZONES, SMALL TREE STUMPS AND OTHER

EXCAVATIONS FOR LARGE STUMPS, ABANDONED UTILITIES, UNDERGROUND TANKS, ETC.

SHALL BE BACKETLLED IN LAYERS WITH COMPACTION AND TESTING OF FACH LAYER AS

AFTER THE SITE HAS BEEN CLEARED AND PROOF-ROLLED. THE EXPOSED SOILS AT THE

DESCRIBED FOR PLACEMENT AND COMPACTION OF FILL MATERIAL. USE LOOSE BACKFILL

STRIPPED SURFACE WITHIN AND TO A POINT 5 FEFT OUTSIDE THE BUILDING CONSTRUCTION

AREA SHALL BE COMPACTED WITH OVERLAPPING PASSES WITH A LIGHT WEIGHT VIBRATORY

DRUM ROLLER. DENSITIES OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM

DRY DENSITY (ASTM D-1557) SHALL BE UNIFORMLY OBTAINED TO A DEPTH OF AT LEAST 24

INCHES BELOW THE COMPACTED SURFACE. REGARDLESS OF THE DEGREE OF COMPACTION

PERPENDICULAR DIRECTIONS THE CONTRACTOR IS ADVISED NOT TO USE THE VIRRATORY

MODE OF COMPACTORS IN CLOSE PROXIMITY TO EXISTING STRUCTURES. THE CONTRACTOR

AFTER THE EXISTING CONCRETE SLAB HAS BEEN REMOVED. THE EXPOSED SOILS AT THE

WITH OVERLAPPING PASSES WITH A WALK-BEHIND VIBRATORY COMPACTOR. DENSITIES OF

SHALL BE UNIFORMLY OBTAINED TO A DEPTH OF AT LEAST 12 INCHES BELOW THE

SHALL COORDINATE COMPACTION EFFORTS AND FOUNDATION INSTALLATIONS TO INSURE THAT

STRIPPED SURFACE WITHIN THE NEW GANTRY PIT CONSTRUCTION AREA SHALL BE COMPACTED

AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D - 1557)

COMPACTED SURFACE. REGARDLESS OF THE DEGREE OF COMPACTION ACHIEVED, A MINIMUM

OF EIGHT COMPLETE COVERAGES SHALL BE MADE WITHIN THE PIT AREA. THE COMPACTOR

AFTER COMPLETION OF DENSIFICATION OF EXISTING SOILS, STRUCTURAL FILL SHALL THEN

ROLLER PREVIOUSLY DESCRIBED. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE

MODIFIED PROCTOR MAXIMUM DRY DENSITY ARE UNIFORMLY OBTAINED. STRUCTURAL FILL

SHALL CONSIST OF AN INORGANIC. NON-PLASTIC. GRANULAR SOIL CONTAINING LESS THAN

10 PERCENT MATERIAL PASSING THE NO. 200 MESH SIEVE, A RELATIVELY CLEAN SAND

FOOTINGS AND MAT HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 4000

SHALL BE ACHIEVED BY MAKING SEVERAL PASSES WITH A RELATIVELY LIGHTWEIGHT, WALK-

PSF. THE UPPER 12 INCHES OF SANDY BEARING SOILS IN THE FOOTING EXCAVATION

MODIFIED PROCTOR MAXIMUM DRY DENSITY. COMPACTION. OR RECOMPACTION OF THE FOOTING EXCAVATION BEARING LEVEL SOILS LOOSENED BY THE EXCAVATION PROCESS,

UNLESS NOTED. ALL FOOTINGS SHALL BE CENTERED UNDER COLUMNS. PIERS AND WALLS.

DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM

D-1557) TO A DEPTH OF AT LEAST 12 INCHES. INTERIOR SLABS-ON-GRADE SHALL BE

RETAINING WALLS HAVE BEEN DESIGNED FOR AN ASSUMED LATERAL EARTH PRESSURE OF

110 PSF PER FOOT OF DEPTH AND AN ASSUMED SURCHARGE OF 200 PSF. DESIGN ASSUMES

ACT 304 (PLACING)

ACI 315 (DETAILING)

ACI 301 (SPECIFICATIONS)

STRENGTH MAX. SIZE W/C

3/4"

4/4"

3/4"

3/4"

. 1-1/2" TO TIES

.. 1-1/2" FROM TOP

AGGREGATE RATIO

MAX.

0.45

0.45

0.50

0.45

SLUMF

RANGE

(IN)

3-5

3-5

3-5

SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON SUBGRADE COMPACTED TO A

BOTTOMS SHALL BE COMPACTED TO DENSITIES EQUIVALENT TO 95 PERCENT OF THE

BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES IN LOOSE THICKNESS WHEN USING THE

VIBRATORY ROLLER UNTIL DENSITIES EQUIVALENT TO AT LEAST 95 PERCENT OF THE

COVERAGES SHALL BE DIVIDED EVENLY INTO TWO PERPENDICULAR DIRECTIONS. THE CONTRACTOR SHALL COORDINATE COMPACTION EFFORTS AND FOUNDATION INSTALLATIONS TO

ACHIEVED, A MINIMUM OF EIGHT COMPLETE COVERAGES SHALL BE MADE WITHIN THE

BUILDING AREA. THE ROLLER COVERAGES SHALL BE DIVIDED EVENLY INTO TWO

UNACCEPTABLE MATERIALS, BUT IN NO CASE LESS THAN 6 INCHES.

LAYER THICKNESS APPROPRIATE FOR THE SIZE OF COMPACTOR BEING USED.

ALL VEGETATION, TOPSOILS, ROOTS AND ORGANIC ZONES SHALL BE STRIPPED AND REMOVED

EXTERIOR OF BUILDING FOUNDATION LIMITS. THE DEPTH OF STRIPPING SHALL BE THAT

+/- 0.18

BASIC WIND SPEED, 3 SECOND GUST.

BUILDING CLASSIFICATION CATEGORY.

INTERNAL PRESSURE COEFFICIENT.

WIND TOPOGRAPHIC FACTOR, Kzt..

DESIGNED BY DELEGATED ENGINEERS.

NO DAMAGE OCCURS TO ADJACENT STRUCTURES.

INSURE THAT NO DAMAGE OCCURS TO ADJACENT STRUCTURES.

WITH A UNIFIED SOIL CLASSIFICATION OF SP OR SP-SM.

BEHIND VIBRATORY SLED OR ROLLER COMPACTOR.

CAST OVER A VAPOR RETARDER. SEE SPECIFICATIONS.

THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:

ACI 305 (HOT WEATHER CONCRETING) ACI 347 (FORMWORK)

3. CONCRETE SLUMP IS TAKEN AT POINT OF PLACEMENT INTO STRUCTURE.

SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTOR'S OPTION.

2. ALL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN), WITH MIXES

DESIGNED TO MEET THE FOLLOWING CRITERIA FOR USE IN VARIOUS ELEMENTS OF THE

COMPRESSIVE

4000

4000

3000

4000

A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE

AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PRIOR TO CASTING

GRADATION AND WATER CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OR

WELL GRADED AND DRAINED BACKFILL.

ACI 306 (WINTER CONCRETING)

STRUCTURE AS FOLLOWS:

STRUCTURAL ELEMENT

A. FOOTINGS (WALL & MAT)

D. ELEVATED FLOORS & BEAMS

B. FOUNDATION WALLS

C. SLAB-ON-GRADE

ACI 211.1 (MIX PROPORTIONING)

<u>CAST-IN-PLACE CONCRETE:</u>

ACI 318 (CODE)

HURRICANE PRONE REGION..

WINDBORNE DEBRIS REGION..

WIND EXPOSURE CATEGORY...

IMPORTANCE FACTOR.

SEISMIC: NOT CONTROLLING

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO ADJACENT BUILDINGS. UTILITIES. OR OTHER PROPERTY. THIS REQUIREMENT IS PARTICULARLY IMPORTANT DURING FOUNDATION INSTALLATION.

THE GENERAL CONTRACTOR IS ADVISED TO CONSIDER PERFORMING PHOTOGRAPHIC SURVEYS AND OTHER DOCUMENTATION OF THE CONDITION OF ADJACENT BUILDINGS AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST CONTRACT DOCUMENTS, INCLUDING ALL ADDENDA. AND PROVIDE THE RELEVANT PORTIONS TO ALL SUB-CONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION AND ERECTION OF STRUCTURAL MEMBERS

THE GENERAL CONTRACTOR SHALL COMPARE AND COORDINATE THE DRAWINGS OF ALL DISCIPLINES AND REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS TO THE ARCHITECT AND ENGINEER.

DETAILS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SEE DETAIL TITLES FOR APPLICABILITY OF A PARTICULAR DETAIL. TYPICAL DETAILS SHALL APPLY WHETHER OR NOT THEY ARE SPECIFICALLY KEYED AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.

WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER SHALL GOVERN.

DELEGATED ENGINEER REQUIREMENTS: THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS, PURSUANT TO CHAPTERS 61G15-30 AND 61G15-31 OF THE FLORIDA ADMINISTRATIVE CODE. CERTAIN COMPONENTS OF THE STRUCTURE REQUIRE THE WORK OF DELEGATED ENGINEERS FOR THE DESIGN OF THOSE COMPONENTS. ALL RELEVANT PROCEDURES PRESENTED IN THE FLORIDA ADMINISTRATIVE CODE SHALL APPLY TO THIS PROJECT.

THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

12. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ANCHORED, EMBEDDED OR SUPPORTED ITEMS. NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES.

THIS BUILDING IS CLASSIFIED AS A "THRESHOLD BUILDING". SPECIAL INSPECTION OF THE CONSTRUCTION IS REQUIRED BY THE STATE OF FLORIDA IN ACCORDANCE WITH CHAPTERS 471 AND 553 OF THE FLORIDA STATUTES. THE COST OF THESE SPECIAL INSPECTION SERVICES SHALL BE PAID BY THE OWNER.

SUBMIT DOCUMENTATION TO THE STRUCTURAL ENGINEER CERTIFYING THAT THE SPECIAL INSPECTOR AND HIS AUTHORIZED REPRESENTATIVE(S) COMPLY WITH THE MINIMUM QUALIFICATIONS UNDER THE FLORIDA STATUTES AND THOSE LISTED IN THE STRUCTURAL INSPECTION PLAN. DOCUMENTATION SHALL INCLUDE A LIST OF THE NAMES OF PERSONS PERFORMING THRESHOLD INSPECTION SERVICES AND PROOF THAT THE SPECIAL INSPECTOR IS REGISTERED IN THE STATE OF FLORIDA WHEN AUTHORIZED REPRESENTATIVES ARE USED. SUBMIT DOCUMENTATION THAT THEY ARE QUALIFIED BY LICENSURE AS A PROFESSIONAL ENGINEER OR ENGINEER INTERN, OR REGISTRATION AS A BUILDING INSPECTOR OR GENERAL

CONSTRUCTION RESPONSIBILITY: THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.

THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR. CONSTRUCTION MEANS. METHODS. TECHNIQUES. SEQUENCES. OR PROCEDURES. FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PERIODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE STRUCTURAL ENGINEER. THE SOLE PURPOSE OF THESE OBSERVATIONS IS TO REVIEW THE GENERAL CONFORMANCE OF THE CONSTRUCTION WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHOULD NOT BE CONSTRUED AS CONTINUOUS OR EXHAUSTIVE TO VERIFY THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

PRIMARY CODES AND SPECIFICATIONS: GENERAL BUILDING CODE

A. FLORIDA BUILDING CODE. 2007 EDITION WITH 2009 SUPPLEMENT.

CONCRETE CODES. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301). LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE WITH ALL SUPPLEMENTS.

3. STRUCTURAL STEEL CODES:

A. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, MARCH 9,2005 (AISC 360-05). B. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, ADOPTED

EFFECTIVE MARCH 18, 2005 (AISC 303-05). OPEN WEB STEEL JOISTS

STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIES (K-1.1-05). CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS, EFFECTIVE

C. STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS

AND JOIST GIRDERS (SJI-02) ANY CONCRETE. MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING D. STANDARD SPECIFICATIONS FOR LONGSPAN STEEL JOISTS, LH SERIES AND DEEP SHALL BE SPECIFICALLY DESIGNED FOR PUMPING. LONGSPAN JOISTS, DLH SERIES (LH/DLH-1.1-05). E. STANDARD SPECIFICATION FOR JOIST GIRDERS (JG-1.1-05). 6. SLABS ON GRADE: UNLESS NOTED OTHERWISE. CONCRETE SLABS ON GRADE SHALL BE A

MINIMUM OF 4" THICK. REINFORCED WITH 6x6 W1.4Xw1.4 WWF PLACED 1-1/2" CLEAR MASONRY CONSTRUCTION: FROM THE TOP OF THE SLAB. SLABS SHALL BE PLACED OVER PROPERLY COMPACTED EARTH. A. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

CONCRETE TIE BEAMS: UNLESS NOTED OTHERWISE, CONCRETE TIE BEAMS SHALL BE A MINIMUM OF 16" DEEP BY THE SUPPORTING WALL WIDTH, REINFORCED WITH 2 #5

4. WATER REDUCING AND AIR ENTRAINING AGENTS SHALL BE INCLUDED IN DESIGN MIXES.

MINIMUM REINFORCING STEEL CLEAR COVER (U.N.O.):

CONTINUOUS TOP AND BOTTOM AND #3 TIES AT 24" O.C.

CONCRETE CAST DIRECTLY AGAINST EARTH .. 3

STANDARD HOOK UNLESS NOTED OTHERWISE.

WALLS OR CENTERED OVER COLUMNS

1. REINFORCING STEEL: ASTM A 615, GRADE 60.

INTERIOR SLABS .

INTERIOR BEAMS

SLABS ON GRADE

STRUCTURAL MEMBERS, INCLUDING 2004 SUPPLEMENT (NAS-01). B. SDI DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS. 2. WELDED WIRE FABRIC: ASTM A 185 (FLAT SHEETS), MINIMUM YIELD STRENGTH OF 70,000

. 25 PSF

COLD FORMED METAL FRAMING. A. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, INCLUDING 2004 SUPPLEMENT (NAS-01).

A. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL

DESIGN LOADS: ROOF LIVE LOADS: UNIFORMLY DISTRIBUTED LIVE LOAD ON HORIZONTAL

(ACI 530-05/ASCE 5-05/TMS 402-05).

SPECIFICATIONS FOR MASONRY STRUCTURES

7. STEEL DECK:

(ACI 530.1-05/ASCE 6-05/TMS 602-05).

PROJECTION. SEE ROOF FRAMING PLAN FOR OTHER CONCENTRATED EQUIPMENT LOADS.

FLOOR LIVE LOADS: UNIFORMLY DISTRIBUTED LIVE LOADS: TREATMENT ROOM FLOOR. 150 PSF CONCENTRATED FLOOR LIVE LOADS: 24,500 LBS. GANTRY VERTICAL LOAD... GANTRY HORIZONTAL LOAD AT 7'-1012" ABOVE TOP OF FOUNDATION. 7,300 LBS.

SUPERIMPOSED DEAD LOADS:

A. TYPICAL FLOORS..

40 BAR DIAMETERS IN CAST CONCRETE.

CMU WALLS OR AT THE CENTER OF THE OPENING SPAN.

6. REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED

5. WHERE SPLICE LENGTHS ARE NOT SPECIFIED, USE 48 BAR DIAMETERS IN MASONRY AND

4. WHERE REINFORCING BARS ARE NOTED AS CONTINUOUS, THE FOLLOWING SHALL BE COMPLIED

THE TERMINATION OF ALL CONTINUOUS REINFORCING BAR RUNS SHALL BE A

SPLICES IN CONTINUOUS TOP BARS, IF REQUIRED, SHALL OCCUR OVER PARALLEL

SPLICES IN CONTINUOUS BOTTOM BARS, IF REQUIRED, SHALL OCCUR OVER CMU

7. LAP ALL WELDED WIRE FABRIC A MINIMUM DISTANCE OF ONE CROSS WIRE SPACING PLUS 2

8. ALL REINFORCING STEEL SHALL BE SUPPORTED ON STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE. SUPPORTING ACCESSORY LEGS THAT REST ON CONCRETE SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF STAINLESS STEEL

9. DOWELS AND OTHER MISCELLANEOUS STEEL EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN SPECIFIED POSITION PRIOR TO PLACEMENT OF CONCRETE AND SHALL NOT BE PUSHED INTO CONCRETE FOLLOWING CONCRETE POUR.

10. FOUNDATION AND GRADE BEAM REINFORCING SHALL BE SUPPORTED ON SPECIALLY CAST 3-1/2 INCH HIGH CONCRETE BLOCKS CAST IN ACCORDANCE WITH DETAILS FURNISHED ON DRAWINGS. SLAB-ON-GRADE REINFORCING, INCLUDING WIRE FABRIC, SHALL BE SUPPORTED ON PRECAST BLOCKS OR 3000 PSI CONCRETE BRICK OF THE PROPER THICKNESS.

11. SOFT METRIC BAR SIZES VS. INCH POUND BAR SIZES:

INCH-POUND #10

CONCRETE FORMWORK: 1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.

ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI 347, RECOMMENDED STANDARD PRACTICE FOR CONCRETE FORMWORK.

RESPONSIBILITY: THE DESIGN CONSTRUCTION AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE. CONSTRUCTION EQUIPMENT. LIVE LOADS. LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

TOLERANCES: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117. STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS. THE CONTRACTOR SHALL ENGAGE A LICENSED SURVEYOR TO VERIFY THAT WORK IS WITHIN SPECIFIED TOLERANCES UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ARCHITECT TO PROVIDE TOLERANCE CONTROL USING THE CONTRACTOR'S

5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED WHERE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

PLUMBING SLEEVE SPACING SHALL BE THE LARGER OF THREE (3) DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE, OR 6" CLEAR BETWEEN SLEEVES. SUBMIT SLEEVE LOCATIONS AND SIZES TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

PENETRATIONS SHALL NOT BE PERMITTED IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE WRITTEN REVIEW OF THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW INDICATING ANY CONCENTRATION OF PIPES, OPENINGS OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO CONCRETE POURS.

CONCRETE MASONRY: 1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.

OWN FORCES PRIOR TO BEGINNING WORK.

2. CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA).

3. MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.

PLAIN END TWO CELLED UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILLED. WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDDED IN MORTAR.

6. IN SPLICING VERTICAL BARS, LAP ENDS, PLACE IN CONTACT AND WIRE-TIE TOGETHER OR

FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT, OR GROUT CONFORMING TO ASTM C-476.SPECIFICALLY DESIGNED FOR FILLING OF CELLS.

USE BAR POSITIONERS. LAP BARS SIDE BY SIDE IN THE PLANE OF THE WALL TO MAINTAIN PROPER COVER. 7. SEE PRIMARY CODES, SPECIFICATIONS AND DRAWINGS FOR GROUTING PROCEDURES.

8. INSTALLATION OF CONCRETE MASONRY SHALL BE COMPATIBLE WITH ALL APPLIED FINISHES SUCH AS STUCCO OR PAINT. DO NOT SPONGE WALLS WITHOUT PROPER CLEANING COMPATIBLE WITH FINISHES.

PROVIDE GALVANIZED WIRE TYPE HORIZONTAL JOINT REINFORCING AT 16" O.C. (MAX) AND AS INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE HOT DIP GALVANIZED HJR ON ALL EXTERIOR WALLS. IN ADDITION TO SCHEDULED OR DETAILED LINTEL AND SILL REINFORCING, PROVIDE TWO LAYERS OF HJR AT 8 INCHES ON CENTER ABOVE AND BELOW ALL LINTELS AND SILLS WHICH SPAN MORE THAN 12 INCHES. EXTEND ADDED HJR 24 INCHES BEYOND THE OPENING JAMBS EXCEPT AT WCJ.

MASONRY BOND BEAMS AND CONCRETE TIE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED SO AS TO KEY AND BOND INTO BLOCK CELLS. THE USE OF BUILDING PAPER

OR SHEET PLASTIC TO CLOSE VOIDS BELOW BEAMS IS NOT ALLOWED DUE TO BREAKAGE OF

11. SEE ARCHITECT'S DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.

WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS BUT UNLESS NOTED OTHERWISE AT A SPACING NOT GREATER THAN 24'

B. HORIZONTAL JOINT REINFORCING SHALL BE INTERRUPTED EACH SIDE OF WALL WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN

OPENING JAMB WIDTH. SEE PLANS AND/OR JAMB REINFORCING SCHEDULE FOR MINIMUM JAMB WIDTHS

SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT WALL CONTROL

E. SEE THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

12. WALL CONTROL JOINTS (WCJ):

13. MASONRY WALLS SHALL BE BRACED EITHER BY OTHER INTERSECTING WALLS OR BY ANCHORAGE OR BRACING TO THE STRUCTURE ABOVE, OR TO ADJACENT WALLS, AS DETAILED ON THE STRUCTURAL DRAWINGS.

14. BLOCK LINTELS SHALL BE SPECIALLY FORMED U-SHAPED LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCING BARS, OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND OTHER APPLIED LOADS.

15. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED. PRIOR TO COMPLETION OF LATERAL SUPPORT BY CONNECTIONS AT FLOORS OR ROOF FRAMING

16. QUALITY ASSURANCE: ALL REINFORCED MASONRY SHALL BE TESTED/INSPECTED IN CONFORMANCE WITH THE REFERENCED ACI 530/ASCE 5/TMS 402 CODES AND THE PROJECT SPECIFICATIONS. QUALITY ASSURANCES SHALL MEET THE REQUIREMENTS OF SECTION 1.6, TABLE 4 LEVEL B, UNLESS MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED ELSEWHERE IN THESE DOCUMENTS

17. TYPICAL SCHEDULED VERTICAL WALL REINFORCING SIZE AND SPACING SHALL ALSO BE CONTINUED ABOVE AND BELOW ALL OPENINGS.

STRUCTURAL STEEL: SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.

W-SHAPES & WT-SHAPES.. ASTM A992 S-SHAPES, M-SHAPES, HP-SHAPES, ASTM A36 ST-SHAPES & MT-SHAPES. ASTM A36 C-SHAPES & MC-SHAPES. ASTM A36 ANGLES & PLATES. ASTM A36 . ASTM A500. GRADE F HSS SHAPES... ASTM A53 (TYPE E OR S), GRADE B STEEL PIPE.. HIGH STRENGTH BOLTS. . ASTM A325 MACHINE BOLTS... . ASTM A307 ..ASTM F1554, GRADE 55 TYPE S1(UNO) ANCHOR RODS... WELDED HEADED STUDS. . ASTM A108 DEFORMED BAR ANCHORS. ASTM A496 WELDING ELECTRODES.. AWS D1.1, E70 SERIES

3. NON-SHRINK. NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 5000 PSI SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO CORPS OF ENGINEERS CRD-C621, FACTORY PREMIX GROUT. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.

4. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS OR RODS AND COLUMN BASE PLATES (PER OSHA).

TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE FRECTION PROCESS.

CONTRACTOR MUST PROVIDE NOTIFICATION TO THE ERECTOR THAT. BY TESTING. THE FOUNDATION AND SUPPORTING WALLS HAVE ATTAINED SUFFICIENT STRENGTH TO SUPPORT THE STEEL TO BE ERECTED BEFORE ERECTING STRUCTURAL STEEL.

6. PROVIDE ONE SHOP COAT OF PRIMER (TT-P-636) ON ALL STEEL EXCEPT FOR ITEMS TO BE HOT DIPPED GALVANIZED OR SPRAY FIREPROOFED. DO NOT PAINT PORTIONS EMBEDDED IN

FRAMING CONNECTIONS NOT DETAILED, OR CONNECTIONS THAT ARE MODIFIED FROM THOSE DETAILED. SHALL BE DESIGNED BY SUPPLIER FOR THE END REACTION SHOWN ON THE PLAN IF NO REACTION IS PROVIDED, DESIGN FOR 1/2 THE BEAM MAXIMUM UNIFORM LOAD PER AISC MANUAL FOR STEEL CONSTRUCTION. SUBMIT SIGNED AND SEALED CALCULATIONS.

8. ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED.

9. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 3/16" FILLET WELD

10. FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED MEMBERS WILL BE ALLOWED. USE 3/16" FILLET WELD MINIMUM.

11. DURING THE ERECTION OF STEEL BEAMS AND DIAGONAL BRACING, ALL BOLTING AND FIELD WELDING SHALL BE COMPLETE BEFORE RELEASING HOISTING CABLES.

12. SUBMIT FOR REVIEW SHOP DRAWINGS OF STEEL DETAILS PRIOR TO FABRICATING STRUCTURAL STEEL.

13. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC-SP10. USE ASTM A325 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS.

14. STEEL COLUMNS, BASE PLATES AND ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER PROTECTION.

15. MEMBERS NOTED AS "CONTINUOUS" SHALL BE FULLY WELDED AT ALL BUTT SPLICES OR CONNECTIONS SHALL BE DETAILED TO PROVIDE CONTINUITY.

SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.

2. THE MANUFACTURER OF THE JOISTS SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.

3. PROVIDE ONE SHOP COAT OF PRIMER (TT-P-636) EXCEPT ITEMS TO RECEIVE SPRAY

4. SEE GENERAL NOTES FOR SPRINKLER PIPE SUPPORT.

5. REFER TO DETAILS FOR SPECIAL TREATMENT OF: SUPPORTING CONCENTRATED LOADS

6. JOISTS SHALL BE DESIGNED TO RESIST A NET UPLIFT AS SHOWN ON LOADING DIAGRAMS 7. CONNECT JOIST BEARING PLATES TO JOIST TOP CHORD FOR 4K.

8. SUBMIT FOR REVIEW SHOP DRAWINGS OF JOIST DETAILS FOR FABRICATION AND ERECTION PRIOR TO FABRICATING JOISTS.

PROVIDE HORIZONTAL OR DIAGONAL TYPE BRIDGING FOR ALL JOISTS AS REQUIRED BY SJI SPECIFICATION AND AS INDICATED ON THE DRAWINGS. THE ENDS OF ALL BRIDGING LINES TERMINATING AT BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. PROVIDE ALL REQUIRED BRIDGING ANCHORS.

10. ALL JOISTS SHALL BE DESIGNED FOR A SINGLE CONCENTRATED TRAVELING PROVISIONAL LOAD OF 300 POUNDS ALONG THE TOP CHORD AND 100 POUNDS ALONG THE BOTTOM CHORD APPLIED BETWEEN PANEL POINTS.

11. JOIST DIAGONAL MEMBERS LOCATED IN THE MIDDLE QUARTER OF THE SPAN SHALL BE DESIGNED FOR A MINIMUM SHEAR. IN COMPRESSION. OF 15 PERCENT OF THE END REACTION. THIS MINIMUM DESIGN LOAD SHALL BE TO ACCOUNT FOR THE POSSIBILITY OF SHEAR REVERSAL DUE TO UNBALANCED LOADING.

12. JOIST SEATS SHALL HAVE THE CAPACITY TO RESIST A LATERAL LOAD APPLIED TO THE TOP CHORD, PERPENDICULAR TO THE SPAN (ROLLOVER). PROVIDE A MINIMUM ROLLOVER FORCE OF 2,000 POUNDS FOR SEATS UP TO 3 1/2 INCHES DEEP AND 1,200 POUNDS FOR SEAT OVER 3 1/2 INCHES DEEP.

1. ROOF DECK SHALL BE 1-1/2" DEEP. SEE ROOF PLAN FOR GAGE AND PROFILE DESIGNATION.

2. ROOF DECK SHALL BE PLACED SO AS TO COVER AT LEAST TWO SPANS. NO SINGLE SPAN

3. DECK SHALL BE FABRICATED SO THAT DECK RUNS CONTINUOUSLY OVER OPENINGS. THE OPENINGS IN THE DECK SHALL NOT BE CUT UNTIL THE OPENING IS NEEDED (PER OSHA).

4. STEEL DECK SHALL CONFORM TO ASTM A653 SQ GRADE 33 (Fy = 33,000 PSI). 5. STEEL DECK SHALL BE GALVANIZED WITH A PROTECTIVE ZINC COATING CONFORMING TO

ASTM A924, WITH COATING DESIGNATION G90. 6. SEE ROOF PLAN AND DETAILS FOR ROOF DECK ATTACHMENT AND FORCES IMPOSED DUE TO

UPLIFT AND DIAPHRAGM SHEAR UNDER WIND LOADING. SEE SPECIFICATIONS FOR INSPECTION AND REPORTING REQUIRED ON ROOF DECK ATTACHMENT.

PROVIDE A MINIMUM END BEARING OF 2" OVER SUPPORTS. END LAPS OF SHEETS SHALL BE A MINIMUM OF TWO INCHES AND SHALL OCCUR OVER SUPPORTS.

THE CONTRACTOR SHALL COORDINATE ALL TRADE REQUIREMENTS AND CONFIRM THE SIZE AND LOCATION OF ALL OPENINGS. OPENINGS LARGER THAN 12", AND AS DETAILED, SHALL HAVE STEEL FRAMING SUPPORTING ALL EDGES. SEE TYPICAL ANGLE FRAMING DETAILS.

9. STEEL MEMBERS SUPPORTING STEEL DECK AT THE PERIMETER OF THE BUILDING SHALL BE CONTINUOUS, BUTT WELD PIECES WHERE SPLICES OCCUR.

COLD FORMED METAL FRAMING: 1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.

2. ALL EXTERIOR WALLS, LINTELS, BEAMS, TRUSSES, ETC. AS WELL AS ALL INTERIOR BEARING WALLS, LINTELS, BEAMS, ETC. SHALL BE DESIGNED, SIGNED AND SEALED BY THE SUPPLIER'S DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

3. ALL MEMBERS SHALL BE FORMED FROM HOT-DIPPED GALVANIZED STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653 SQ GRADE 33 (FV = 33.000 PSI). GALVANIZED COATING SHALL CONFORM TO ASTM A924 WITH COATING DESIGNATION G60.

4. EXTERIOR METAL WALL STUDS: A. THE COLD FORMED METAL STUD FRAMING CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF EXTERIOR METAL STUDS. SHOP DRAWINGS SHOWING PLANS. ELEVATIONS. AND SECTIONS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY A

LICENSED ENGINEER IN THE STATE OF FLORIDA. B. THE MINIMUM SIZE AND SPACING SHALL BE AS DESCRIBED IN THE CONSTRUCTION

C. DO NOT CUT OR OTHERWISE DAMAGE LOAD BEARING STUDS DURING INSTALLATION OF

ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL. SUBMITTAL WITHOUT CONTRACTOR REVIEW WILL RESULT IN DELAYS. THE CONTRACTOR SHALL CONFIRM THAT SHOP DRAWINGS HAVE BEEN COMPLETED AND CHECKED BY THE SUPPLIER PRIOR TO SUBMISSION.

CONTRACTOR IS TO PROVIDE 1 REPRODUCIBLE AND 2 COPIES OF SHOP DRAWINGS. THE 2 COPIES WILL BE RETAINED BY THE ARCHITECT AND ENGINEER AND THE REPRODUCIBLE WILL BE RETURNED TO THE CONTRACTOR. ADDITIONAL COPIES WILL BE RETURNED UNMARKED. CONTRACTOR SHALL MAKE ANY OTHER ADDITIONAL REQUIRED COPIES FROM THE MARKED-UP REPRODUCIBLES. PREFERRED ALTERNATE: PROVIDE ELECTRONIC COPIES (PDF) OF CONTRACTOR REVIEWED AND STAMPED SHOP DRAWINGS FOR A/E REVIEW AND PROCESSING.

SHOP DRAWING SUBMITTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL SPECIFICATIONS, CHANGES OR ADDITIONS MADE ON RESUBMITTED SHOP DRAWINGS SHALL BE CLEARLY INDICATED. AND THE PURPOSE OF THE RESUBMITTAL SHALL BE NOTED ON THE TRANSMITTAL. REVIEW OF RESUBMITTED SHOP DRAWINGS SHALL BE LIMITED SPECIFICALLY TO THE ITEMS NOTED FOR CORRECTION ON THE PREVIOUS SUBMITTAL.

THE GENERAL CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

> CONCRETE MIX DESIGNS LIGHT GAGE METAL FRAMING(a) REINFORCING STEEL STEEL JOISTS (b) STEEL ROOF DECK STRUCTURAL STEEL

THE NOTATIONS FOLLOWING SUBMITTAL ITEMS INDICATE THE FOLLOWING:

(a) CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

(b) INCLUDE A CERTIFICATE OF COMPLIANCE WITH CONTRACT DOCUMENTS SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA RESPONSIBLE FOR THE DESIGN.

(c) SUBMIT ONE COPY FOR INFORMATION AND RECORD ONLY.

MANUFACTURER'S LITERATURE: SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT

THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS FOR GENERAL CONFORMANCE OF THE DESIGN CONCEPT. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTALS THAT IS ACCEPTABLE TO BOTH CONTRACTOR AND ENGINEER. AFTER THE CONTRACTOR HAS REVIEWED THE SHOP DRAWINGS, PROMPT REVIEW BY THE ENGINEER WILL BE MADE OF ALL SUBMITTALS. FOR LARGE SUBMITTALS, REASONABLE REVIEW TIME SHALL BE ALLOWED AND MAY EXCEED TWO WEEKS. THE CONCURRENT SUBMITTAL OF MULTIPLE SHOP DRAWINGS ("DUMPING") WILL FURTHER EXTEND THE REVIEW PROCESS AND TIME FRAME NECESSARY TO PROPERLY REVIEW EACH SUBMITTAL.

REPRODUCTION OF THESE CONTRACT DOCUMENTS BY ANYONE FOR USE IN SHOP DRAWINGS SHALL SIGNIFY THEIR ACCEPTANCE OF ALL INFORMATION SHOWN AS BEING CORRECT. STRUCTURAL ENGINEERS GROUP. INC. SHALL BE INDEMNIFIED AND HELD HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES, EXPENSES OR LIABILITIES OF ANY KIND, INCLUDING ATTORNEYS FEES. THE CONTRACTOR IS RESPONSIBLE FOR PROPER CHECKING AND COORDINATING OF DETAILS, DIMENSIONS, SIZES AND QUANTITIES AS REQUIRED TO FACILITATE COMPLETE AND ACCURATE FABRICATION AND ERECTION

POST-INSTALLED ANCHORS: POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING

MANUFACTURER'S LITERATURE.

POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS. 2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE

SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE

4. UNLESS NOTED OTHERWISE ON DOCUMENTS, ACCEPTABLE PRODUCTS SHALL BE AS LISTED

A. MECHANICAL ANCHORS INTO CONCRETE: USE THE FOLLOWING (UNO): HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS

(ICC-ES ESR1917) RED HEAD TRUBOLT + WEDGE ANCHORS (ICC-ES ESR2427) SIMPSON STRONG-TIE STRONG-BOLT (STB) (ICC-ES ESR1771)(FL8668) 2. USE THE FOLLOWING ONLY WHERE SPECIFICALLY CALLED OUT ON THE DOCUMENTS:

A HILTI HDA (ICC-ES ESR1546) HILTI HSL-3 ANCHOR (ICC-ES ESR1545) SIMPSON STRONG-TIE TITEN HD (THD) (ICC-ES ESR2713)(FL2304) MECHANICAL ANCHORS INTO MASONRY LINTELS OR GROUT FILLED CELLS:

USE THE FOLLOWING (UNO): HILTI KWIK BOLT 3 MASONRY ANCHORS (ICC-ES ESR1385) SIMPSON STRONG-TIE WEDGE-ALL ANCHOR(WA) (ICBO-ES ER-3631) (FL5415)

USE THE FOLLOWING ONLY WHERE SPECIFICALLY CALLED OUT ON THE DOCUMENTS: A. HILTI HUS-H SCREW ANCHOR (ICC-ES ESR2369) SIMPSON STRONG-TIE TITEN HD (THD) (ICC-ES ESR1056)(FL2304)

ADHESIVE ANCHORS INTO CONCRETE: USE THE FOLLOWING (UNO) HILTI HIT-RE 500-SD ADHESIVE (ICC-ES ESR2322) RED HEAD EPCON G5 ADHESIVE (ICC-ES ESR1137)(FL6582)

SIMPSON STRONG-TIE SET-XP EPOXY-TIE ADHESIVE (SETXP)

(ICC-ES ESR2508) USE THE FOLLOWING ONLY WHERE SPECIFICALLY CALLED OUT ON THE A. HILTI HIT HY 150 MAX ADHESIVE (ICC-ES ESR2262)

D. ADHESIVE ANCHORS INTO MASONRY LINTELS OR GROUT FILLED CELLS: USE THE FOLLOWING (UNO): A. HILTI HIT HY-150 MAX ADHESIVE (ICC-ES ESR1967) SIMPSON STRONG-TIE SET EPOXY-TIE ADHESIVE (SET)

(ICC-ES ESR1772)(FL5550)

STRUCTURAL DRAWING INDEX

Sheet Title/Drawing Description

GENERAL NOTES AND DRAWING INDEX ABBREVIATIONS, SYMBOLS & WIND LOADS S002 S101 MACHINE PIT PLAN S102 LEVEL 1 SLAB PLAN PARTIAL STRUCTURAL CEILING PLAN S103 S104 PARTIAL ROOF FRAMING PLAN S201 PARTIAL BUILDING SECTIONS S301 MASONRY SECTIONS AND DETAILS S302 FOUNDATION SECTIONS AND DETAILS CONCRETE SECTIONS AND DETAILS S303 S401 FRAMING SECTIONS AND DETAILS

Sheet No.

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Revisions

ENGINEER OF RECORD ROBERT W. GIVENS, P.E. FL. P.E. NO. 31961

UNIVERSITY OF

Proton Therapy LINAC Addition Shands Jacksonville Campus

Project Phase **100% Construction Documents**

UF LM-4985

GENERAL NOTES AND DRAWING INDEX

Drawn By CSH Checked By 09 DEC 2011 RWG

AEI Project No. 11662-00

AFF ABOVE FINISHED FLOOR AHU - AIR HANDLING UNIT - AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC AMERICAN IRON AND STEEL INSTITUTE AISI AITCCONT AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION ALTALUM

AMTANCH ANCHOR. ANCHORAGE AMERICAN NATIONAL STANDARDS INSTITUTE APPROX - APPROXIMATE - ANCHOR ROD

ARCHITECT, ARCHITECTURAL

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS *ASD* - ALLOWABLE STRESS DESIGN ASTM - AMERICAN SOCIETY OF TESTING & MATERIALS AVG - AVERAGE

AWS AMERICAN WELDING SOCIETY BB - BOND BEAM BLDG - BUILDING BLKBLKG BMBOS BOTT

ARCH

BRDG BRIDGE, BRIDGING BRG BS - BOTH SIDES BTWN BUR BUILT-UP ROOF - STEEL CHANNEL SHAPE CADCADMIUN CANT CANTILEVER CAPCAPACITY CB CORNER BAR CC - CENTER TO CENTER - CUBIC FEET, COLUMN FOOTING CF CFMF - COLD FORMED METAL FRAMING CHKD

CI- CAST IRON CIP- CAST-IN-PLACE CJ CONSTRUCTION JOINT CL CENTERLINE CLG - CEILING CLR - CLEARANCE, CLEAR

CM - CONSTRUCTION MANAGER CONCRETE MASONRY UNIT CO - CUT OFF COL - COLUMN COMP COMPOSITE, COMPRESSOR, COMPRESSIVE - CONCRETE CONN CONNECTION, CONNECT CONSTR - CONSTRUCTION

DBA

DBL

DEG

DEMO

DEPT

DET

DIA

EL

DIAG

CONTINUOUS CONTR CONTRACTOR CRSI CONCRETE REINFORCING STEEL INSTITUTE CSK COUNTERSTN CTR CENTER CTRD CENTERED CURTAIN WALL, CURTAINWALL CW CY

CUBIC YARD DEFORMED BAR ANCHOR - DOUBLE **DEGREES DEMOLITION** DEPARTMENT - DETAIL - DIAMETER - DIAGONAL DIAPHRAGM DIMENSION

DIAPH DIMDEAD LOAD DN DOWN DO - DITTO DT DOUBLE TEES DWG DRAWING DWL DOWEL EAST EACH EΑ EACH END EACH FACE - EXPANSION JOINT - ELEVATION - ELECTRICAL ELEV - ELEVATOR - ENCLOSURE **ENGINEER**

ENCL ENGR EOD EDGE OF DECK EOS EDGE OF SLAB EQ - EQUAL EQPT **EQUIPMENT** ES EACH SIDE EST **ESTIMATED** ETC - AND OTHERS

EW - EACH WAY ICF - EXISTING ID- EXPANSION JOINT INFO FAHRENHEI

EXIST

EXP JT

f`c

FΒ

FLR

FOS

FRT

FΤ

FTG

GALV

GCL

GEN

GRND

GYP

HCA

HDR

HEX

HGR

HGT

HJR

HK

HORIZ

FRPF

FL00R

FIREPROOF

FAR SIDE

FOOTING

GAUGE

GRADE

GROUND

GYPSUM

HFADER

HEXAGONAL

HANGER

HEIGHT

- FOOT, FEET

GAL VANIZED

GLULAM BEAM

HOLLOW CORE

FIRE RETARDANT

YIELD STRENGTH OF STEEL

GRANULAR CAPILLARY LAYER

GENERAL CONTRACTOR

GYPSUM WALLBOARD

HEAVY DUTY, HEAD

STEEL BEARING PILE

STRUCTURAL SECTION

HEX WASHER HEAD

HIGH STRENGTH

HEADED CONCRETE ANCHOR

HOT DIPPED GALVANIZED

HORIZONTAL JOINT REINFORCING

INTERNATIONAL BUILDING CODE

SQUARE, RECTANGULAR OR ROUND HOLLOW

INT MINIMUM 28-DAY CONCRETE STRENGTH JST SPECIFIED MASONRY STRENGTH JT FLORIDA BUILDING CODE FLOOR DRAIN KB FOUNDATION KD FINISHED FLOOR KO KSF FINISH, FINISHED KSI FACE OF STUD

KNEE BRACE · KILN DRIED KNOCK OUT KIPS PER SQUARE FOOT · KIPS PER SQUARE INCH STEEL ANGLE, LENGTH LAMLAMINATED LBS - LINEAL FEET LF - LIVE LOAD LLBB - LONG LEG BACK TO BACK LLH LLO LLVLRFD LSH LSL LSV

- LONG LEG HORIZONTAL - LONG LEG OUTSTANDING - LONG LEG VERTICAL LOAD AND RESISTANCE FACTOR DESIGN LONG SIDE HORIZONTAL LT- LIGHTWEIGHT, LONG WAY LW- STEEL SHAPE MACH MAS MASONRY **MATERIAL** MACHINE BOLT, MASONRY BEAM METAL BUILDING MANUFACTURER MBMMBR MEMBER MISCELLANEOUS STEEL CHANNEL, MOMENT CONNECTION MECH *MECHANICAL* MED

- INSULATED CONCRETE FORM

INSIDE DIAMETER

KIPS (1000 LBS.)

INSIDE FACE

INFORMATION

INSULATION

INTERIOR

JOIST

JOINT

INCHES

MEMB **MEMBRANE** MEZZ MEZZANINE MFR **MANUFACTURER** MIDMIN MINIMUM MISC · MISCELLANEOUS MASONRY OPENING

- METAL, MATERIAL MULLION NORTH NATIONAL GEODETIC VERTICAL DATUM NOT IN CONTRACT NUMBER NOMINAL NEAR SIDE NTS NOT TO SCALE

OVERALL ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPENING OPPOSITE ОРРН OPPH OCCUPATIONAL SAFETY AND HEALTH *ADMINISTRATION*

· OVERSIZED OUNCE · STEEL PIPE POWDER ACTUATED FASTENER PRECAST, PILE CAP, PIECE POUNDS PER CUBIC FOOT PRESTRESSED CONCRETE INSTITUTE PROFESSIONAL ENGINEER

PED PEDESTAL PEMB PRE-ENGINEERED METAL BUILDING PERP PERPENDICULAR PLATE POUNDS PER LINEAL FOOT PANEL PANEL POINT PREFABRICATED

PRELIM PRELIMINARY PREP PREPARATION PRESTRESSED CONCRETE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED - POST TENSIONED CONCRETE PAINTED PAVEMENT

PTDPVMTQUALITY ASSURANCE QUALITY CONTROL

QUANTITY - RISER, REACTION, RADIUS R/W- RIGHT OF WAY

REM REMAINDER REQD REQURIED REV REVISION RFGROOFING ROOM RO ROUGH OPENING RTN RTU ROOF TOP UNIT SOUTH, STANDARD BEAM STANDARD BUILDING CODE SLIP CRITICAL SCHEDULE SCHED STEEL DECK INSTITUTE STRUCTURAL ENGINEER SECT SECTION SQUARE FEET

SGL SHT SIMSJI

JOIST NET UPLIFT SCHEDULE

ROOF DRAIN REFERENCE

REINFORCED, REINFORCING, REINFORCEMENT

SINGLE SHEET - SIMILAR SAWED CONTROL JOINT

REF

- STEEL JOIST INSTITUTE SHORT LEG BACK TO BACK SL0 SHORT LEG OUTSTANDING SLOT SLP **SLOPE**

SLVSHORT LEG VERTICAL SOG SLAB ON GRADE SPA SPACED, SPACING, SPACES SPEC **SPECIFICATION** SQ SQUARE

STAINLESS STEEL SSL SHORT SLOTTED SSPC STEEL STRUCTURES PAINTING COUNCIL ST STANDARD FLANGE, STRUCTURAL TEE

STD STANDARD STIFF STIR STIRRUP STL STEEL STRUCT STRUCTURAL SUSPENDED

SHORT WAY, SHEAR WALL SQUARE YARD SYM SYMMETRICAL SOUTHERN YELLOW PINE

SYP SYS - SYSTEM

TREAD

- TOP & BOTTOM T&B

TONGUE & GROOVE - TIE BEAM TEMP TEMPORARY, TEMPERATURE

THK THICK THRD THREADED TOP OF CONCRETE TOF - TOP OF FOOTING TOP OF GRADE BEAM TOGB TOJ TOP OF JOIST TOM TOP OF MASONRY TOPC - TOP OF PILE CAP

TOPG - TOPPING TOPL - TO OF PLATE - TOP OF STEEL - TOP OF SLAB TOSL TOW TOP OF WALL TPLTRIPLE TYP- TYPICAL

UNO UNLESS NOTED OTHERWISE **VERT** - VERTICAL VOL - VOLUME

- STEEL WIDE FLANGE SHAPE, WEST W/OWITHOUT WALL CONTROL JOINT

- WALL EXPANSION JOINT

WALL FOOTING - WEIGHT - WIND LOAD - WORKING POINT, WATERPROOF

- YARD

ΥD

WPFGWATERPROOFING **WATERSTOP** WIDE FLANGE STRUCTURAL TEE, WATER TABLE,

WALL TYPE WELDED WIRE FABRIC - EXTRA STRONG XXS - DOUBLE EXTRA STRONG

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Revisions

WIND LOAD INFORMATION

| COMPONENT | ZONE | EFFECTIVE WIND | DESIGN PRESSURE (PS | |
|---|------|----------------|---------------------|---------|
| | | AREA (SF) | POSITIVE | NEGATIV |
| ROOF ELEMENTS | 1 | 10 | 12 | -30 |
| | | 20 | 11 | -29 |
| | | 50 | 10 | -28 |
| | | >100 | 10 | -27 |
| | 2 | 10 | 12 | -50 |
| | | 20 | 11 | -45 |
| | | 50 | 10 | -38 |
| | | >100 | 10 | -32 |
| | 3 | 10 | 12 | -75 |
| | | 20 | 11 | -62 |
| | | 50 | 10 | -45 |
| | | >100 | 10 | -32 |
| | 4 | 10 | 27 | -30 |
| | | 20 | 26 | -28 |
| | | 50 | 24 | -27 |
| | | 100 | 23 | -26 |
| | | >500 | 22 | -23 |
| | (4P) | 10 | 72 | |
| | | 20 | 65 | |
| EXTERIOR WALL | | 50 | 56 | |
| ELEMENTS, WINDOWS, DOORS AND CURTAIN WALLS | | 100 | 46 | |
| | | >500 | 46 | |
| | 5 | 10 | 27 | -36 |
| | | 20 | 26 | -34 |
| | | 50 | 24 | -31 |
| | | 100 | 23 | -28 |
| | | >500 | 22 | -23 |
| | (5P) | 10 | 98 | |
| | | 20 | 83 | |
| | | 50 | 64 | |
| | | 100 | 48 | |

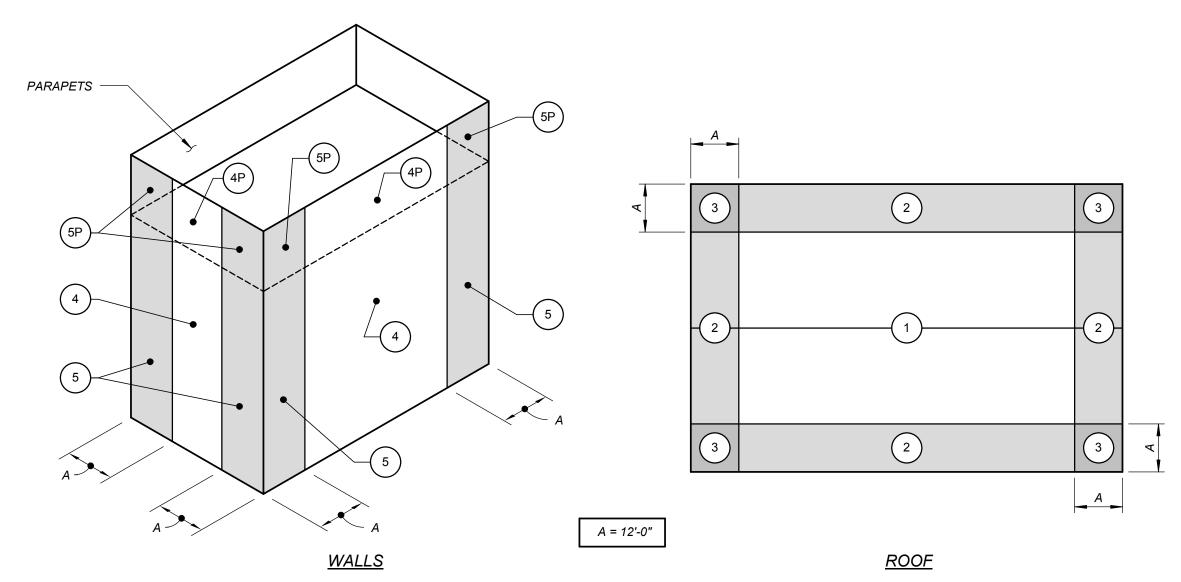
COMPONENTS & CLADDING

DESIGN WIND PRESSURES SHALL BE USED IN THE DESIGN OF ALL

COMPONENTS AND CLADDING ELEMENTS COMPRISING THE BUILDING ENVELOPE. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES AND

NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT AND CLADDING DESIGN WIND PRESSURE. VALUES FOR OVERHANGS INCLUDE PRESSURE CONTRIBUTIONS

FROM BOTH UPPER AND LOWER SURFACES. DIMENSION A = 12' - 0''



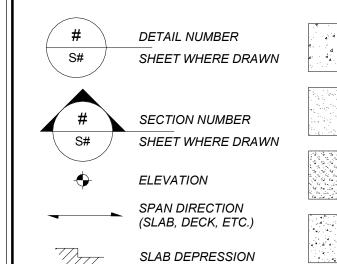
WIND PRESSURE DIAGRAMS

REFER TO 'COMPONENTS & CLADDING WIND

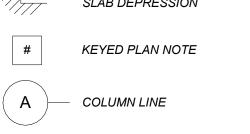
LOAD DESIGN PRESSURE SCHEDULE' ON THIS SHEET

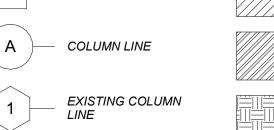
EFFECTIVE WIND AREA (SF) PRESSURE (PSF) -20 -19 -18 >100 -41 -29 >100 -23 -66 -53 -36 >100 -23 . JOISTS SHALL BE CLASSIFIED AS COMPONENTS AND SHALL BE DESIGNED USING THE NET PRESSURES LISTED IN THE TABLE. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS AND EXTENTS. NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE. LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT DESIGN NET UPLIFT PRESSURE.

SYMBOL LEGEND

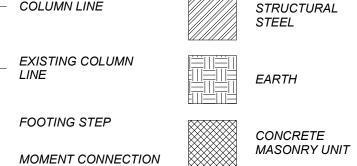


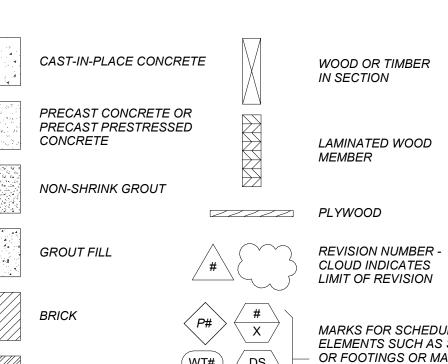
SLAB DEPRESSION KEYED PLAN NOTE

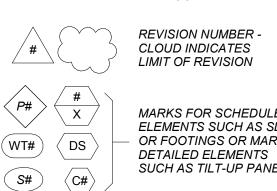


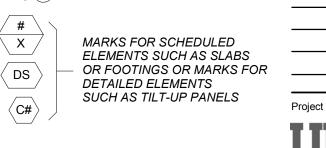


SHEAR CONNECTION









COMBINED SCHEDULE OF

DETAILED INFORMATION



Project Phase **100% Construction Documents**

UF LM-4985

Shands Jacksonville Campus

ABBREVIATIONS, **SYMBOLS & WIND LOADS**

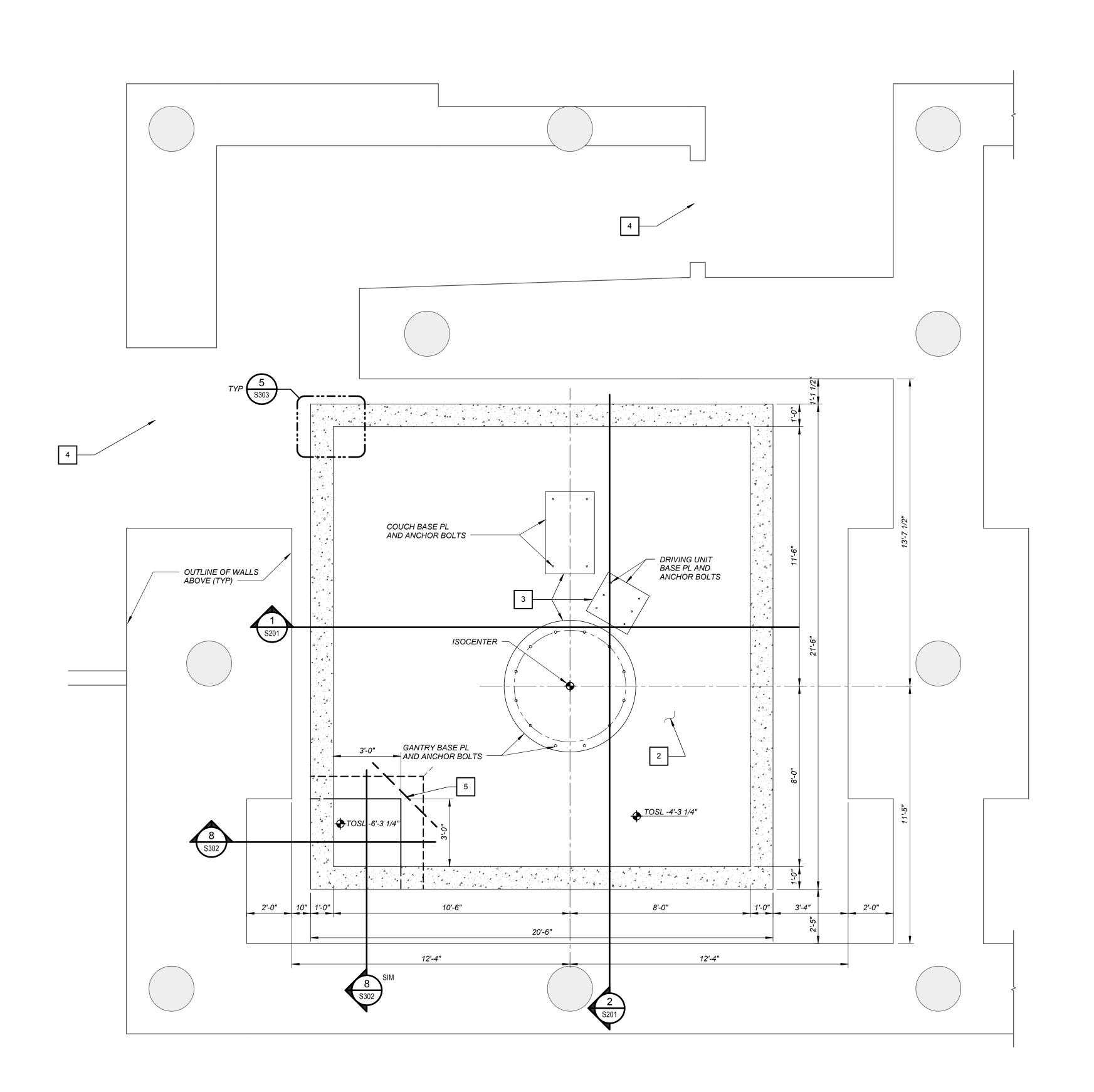
Drawn By 12" = 1'-0" CSH Checked By

RWG

AEI Project No.

09 DEC 2011

11662-00



MACHINE PIT PLAN

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



PLAN NOTES

PLAN NOTES ARE TYPICAL FOR THIS DRAWING UNLESS SPECIFICALLY DESIGNATED OTHERWISE.

REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION (TYP).

REFER TO DRAWING S001 FOR STRUCTURAL DRAWING INDEX.

18" FOUNDATION MAT / SLAB OVER VAPOR RETARDER AND COMPACTED EARTH; REINFORCE W/ #7 @ 12" OC EACH WAY TOP AND BOTTOM. ELEVATION TOP OF SLAB=

VERO TO SUPPLY AND INSTALL ALL BASE PLATES AND ANCHOR BOLTS.

ADD 2-#6x4'-0" T&B AT ALL RE-ENTRANT CORNERS. PLACE IN INNER SLAB REINFORCING LAYER, 2" CLEAR FROM CORNER.



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ENGINEER OF RECORD

ROBERT W. GIVENS, P.E. FL. P.E. NO. 31961

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Proton Therapy LINAC Addition Shands Jacksonville Campus

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MACHINE PIT PLAN

UF LM-4985

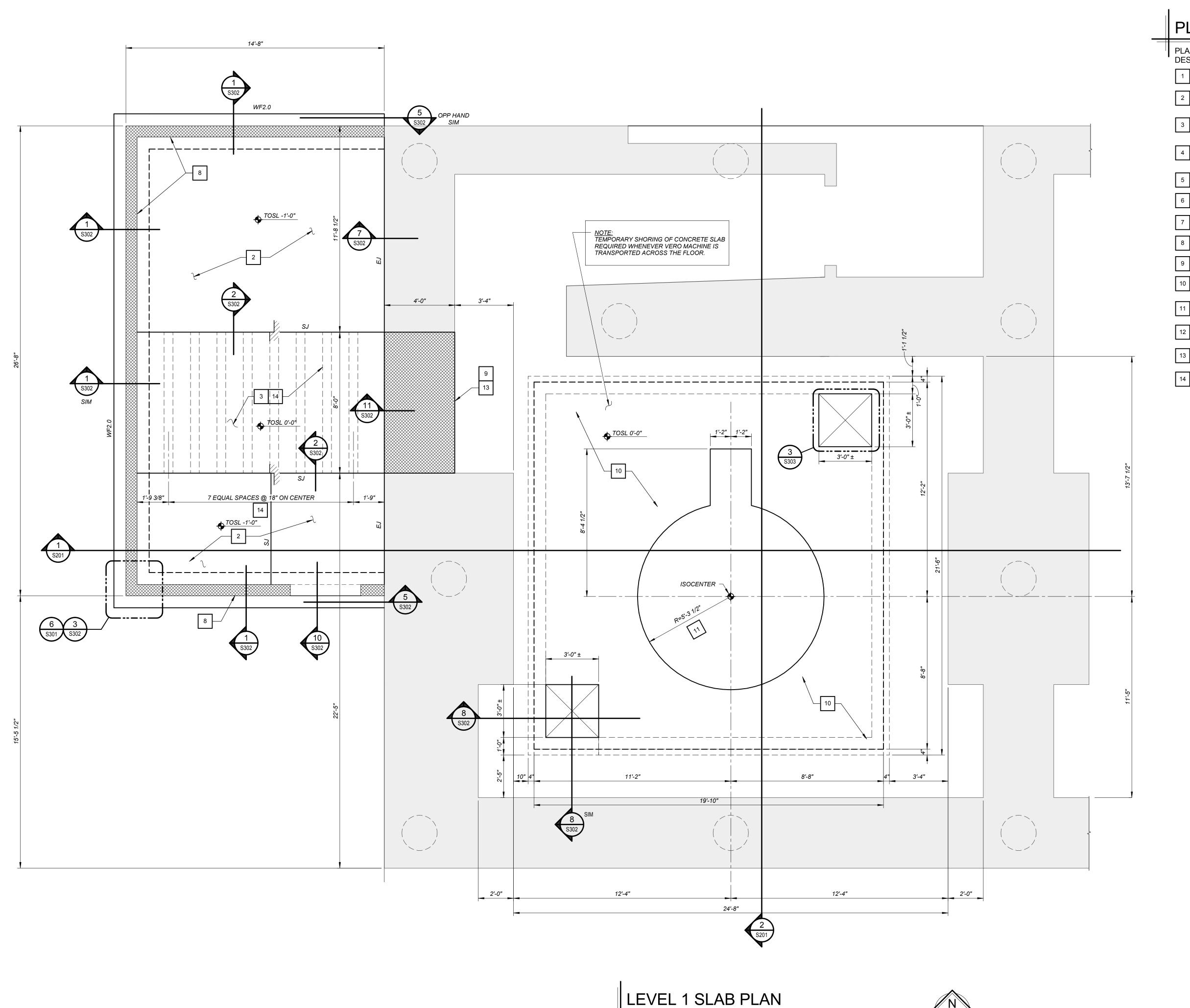
Drawn By CSH As indicated Checked By

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09 DEC 2011

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11662-00



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

PLAN NOTES

PLAN NOTES ARE TYPICAL FOR THIS DRAWING UNLESS SPECIFICALLY DESIGNATED OTHERWISE.

1 REFER TO DRAWING S001 FOR STRUCTURAL DRAWING INDEX.

6" CONCRETE SLAB OVER VAPOR RETARDER AND COMPACTED EARTH; REINFORCE W/ 6x6-W2.9xW2.9 WWF, 1 1/2" CLEAR FROM TOP OF SLAB.

18" CONCRETE SLAB OVER VAPOR RETARDER AND COMPACTED EARTH;
REINFORCE W/#6 @ 12" EW, T&B. ELEVATION TO TOP OF SLAB = + 0'-0" (DATUM)
MATCH EXISTING CONCRETE.

4 REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, DETAILS AND LOCATIONS OF INTERIOR PARTITIONS, DOORS AND WINDOWS, AND TO VERIFY DEPTH AND EXTENT OF SLAB DEPRESSIONS.

ADD 2 #4x4'-0" @ 3" OC AT AT ALL RE-ENTRANT CORNERS (TYP), PLACE ON INNER LAYER 1 1/2" CLR FROM CORNER.

WALL FOOTINGS ARE DESIGNATED BY "WF" .

REFERENCE ELEVATION TOP OF FOOTINGS (TOF) + -2-0" UNO.

ALL EXTERIOR 8" CMU WALLS SHALL BE WT1, UNO.

INFILL OPENING CUT IN EXISTING WALL W/ SOLID HEAVY WEIGHT CMU BLOCK.

8" CONCRETE SLAB; REINFORCE W/ #6 @ 6" OC EACH WAY TOP AND BOTTOM. ELEVATION TOP OF SLAB= 0'-0" (DATUM) MATCH EXISTING

11 CONTRACTOR SHALL COORDINATE EDGE OF STRUCTURE WITH ARCHITECTURAL DRAWINGS TO SUIT EACH TYPE OF ARCHITECTURAL FINISH.

REFER TO DRAWING S101 FOR DIMENSIONS NOT SHOWN ON THIS PLAN.

13 REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION (TYP).

6" DIAMETER PVC CONDUIT PIPE CAST IN MID SLAB DEPTH SPACED AT 18" OC.

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Revisions

Project

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Proton Therapy LINAC Addition Shands Jacksonville Campus UF LM-4985

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Sheet Title

LEVEL 1 SLAB PLAN

Scale Drawn By

As indicated CSH

Date Checked By

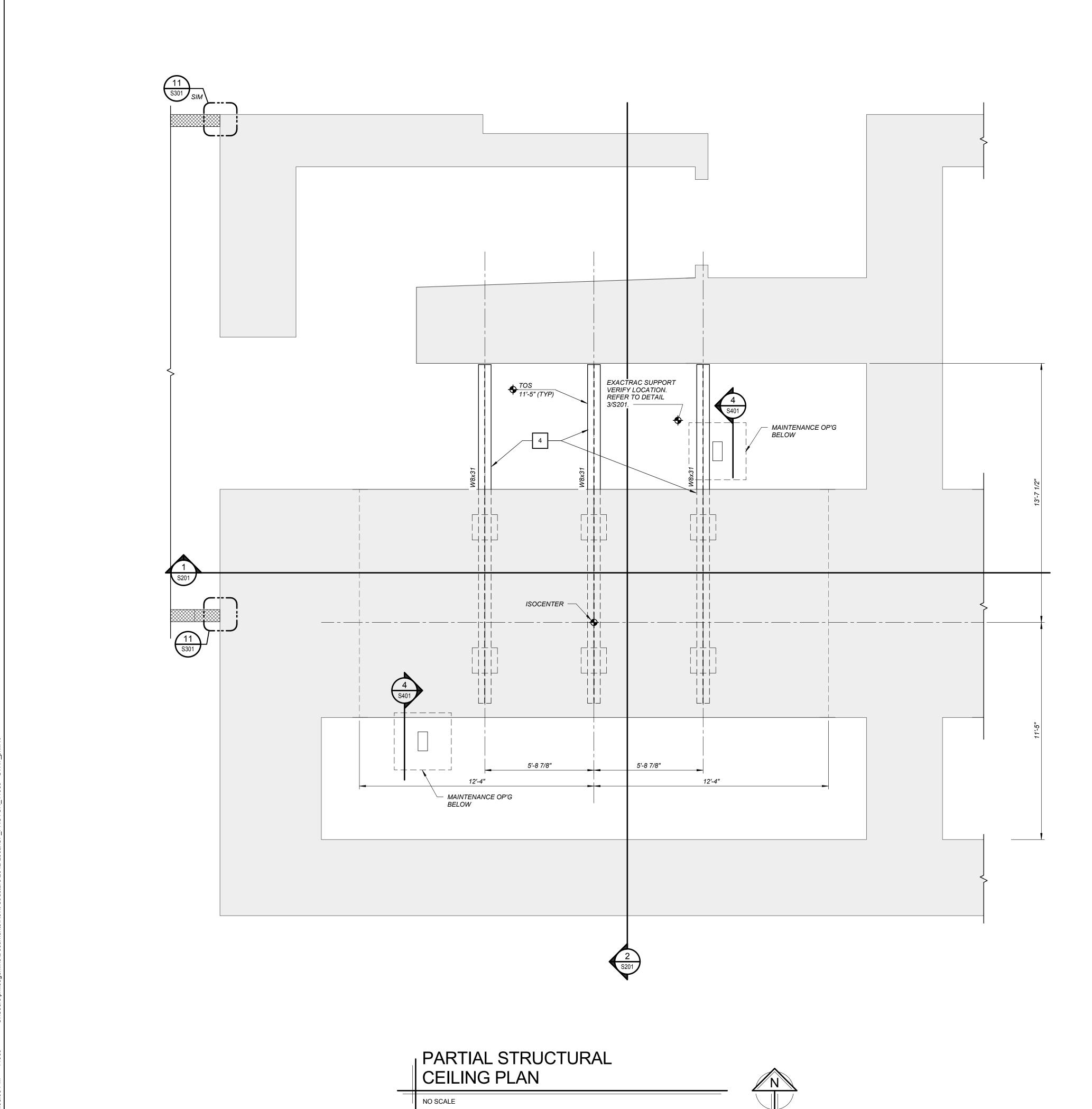
Date Checken

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AEI Project No.

11662-00

Sheet No.





PLAN NOTES

PLAN NOTES ARE TYPICAL FOR THIS DRAWING UNLESS SPECIFICALLY DESIGNATED OTHERWISE.

REFER TO DRAWING S001 FOR STRUCTURAL DRAWING INDEX.

REFERENCE ELEVATION TO TOP OF STEEL BEAMS (TOS) IS 💠 11'-5"

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, DETAILS AND LOCATIONS OF INTERIOR PARTITIONS, DOORS AND WINDOWS, AND TO VERIFY DEPTH AND EXTENT OF

4 LIFT CAPACITY = 11,000# (MINIMUM).



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PARTIAL STRUCTURAL CEILING PLAN

Scale Drawn By
As indicated CSH

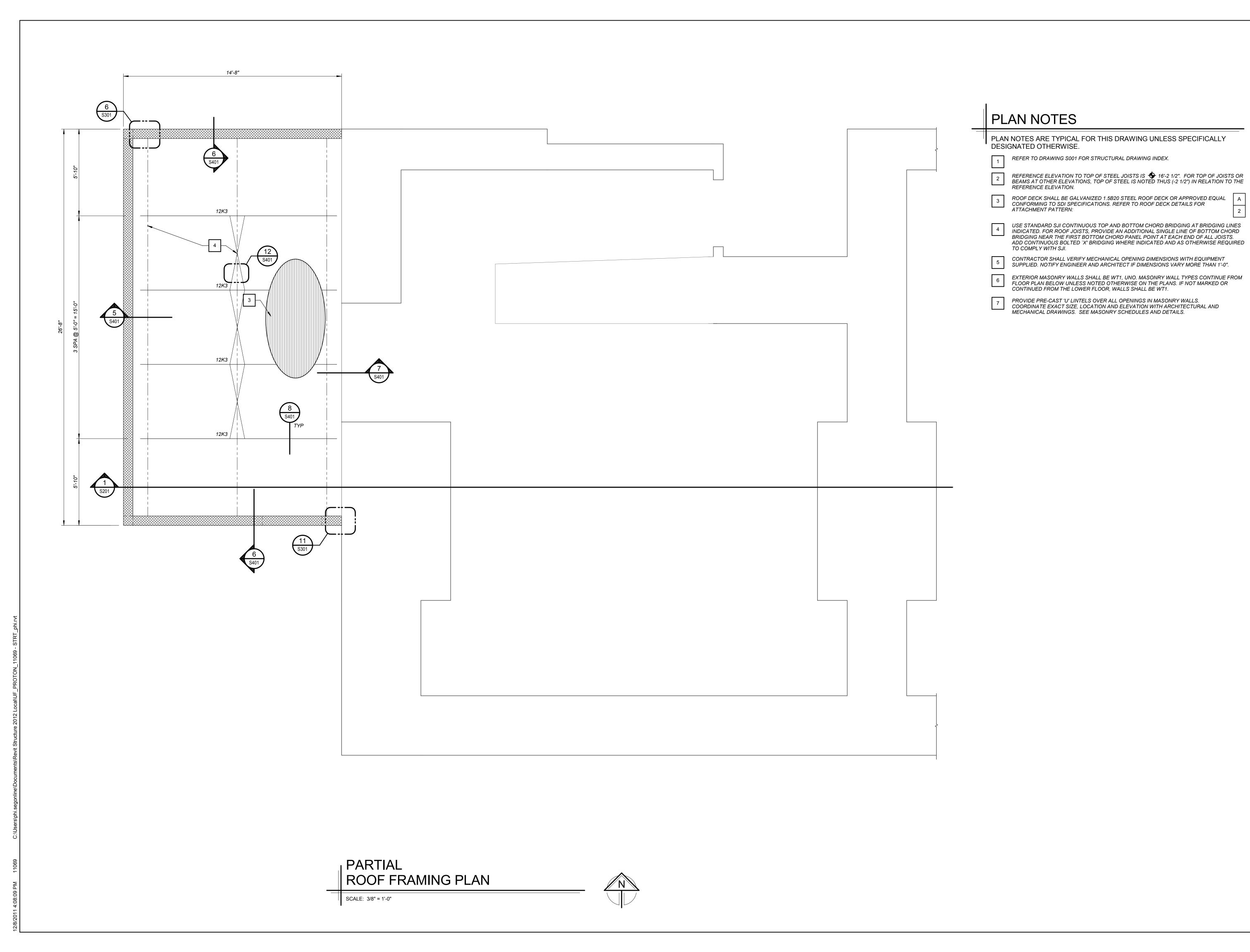
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Sheet No. **S103**







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PARTIAL ROOF FRAMING PLAN

As indicated CSH

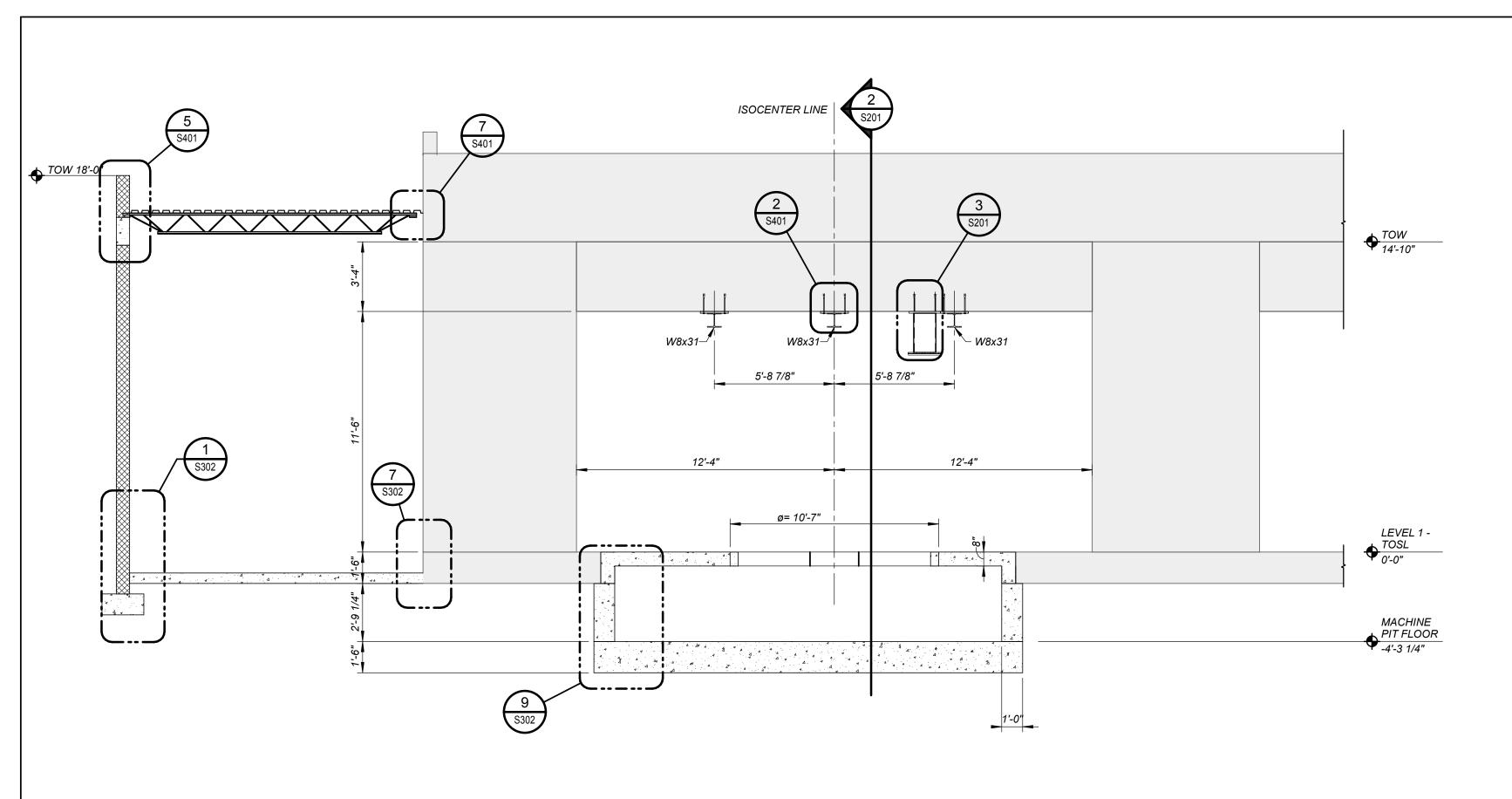
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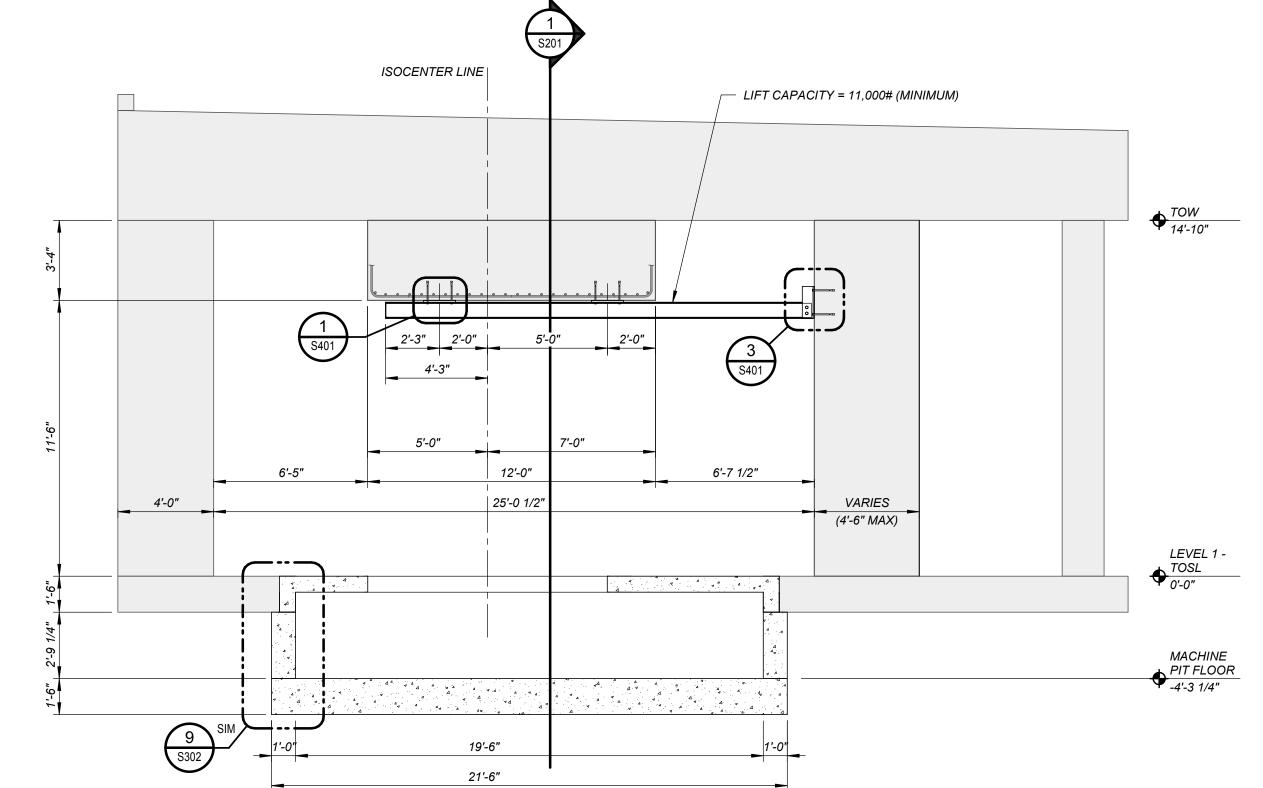
AEI Project No.

11662-00

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Chart No.







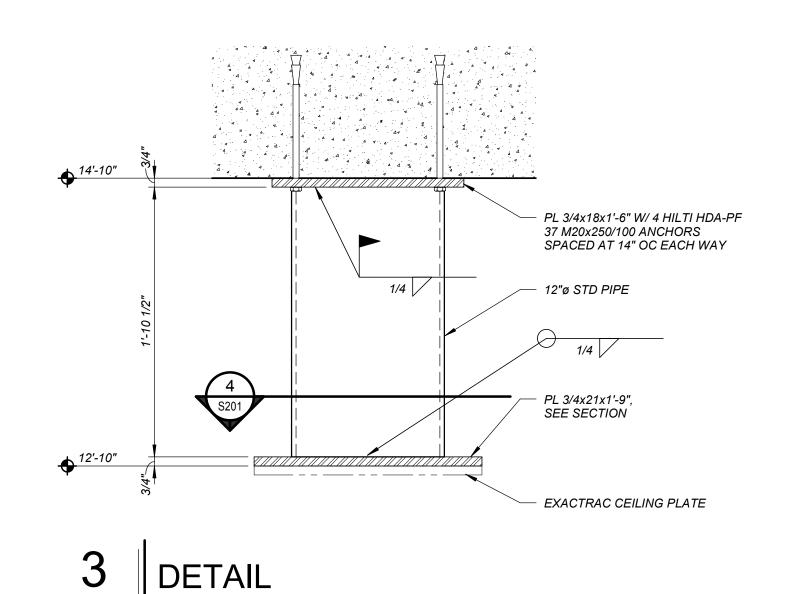


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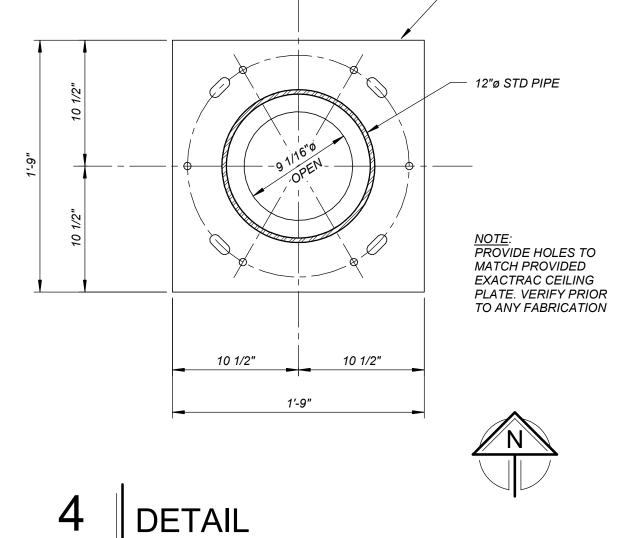
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NO SCALE



NO SCALE

PL 3/4x21x1'-9"

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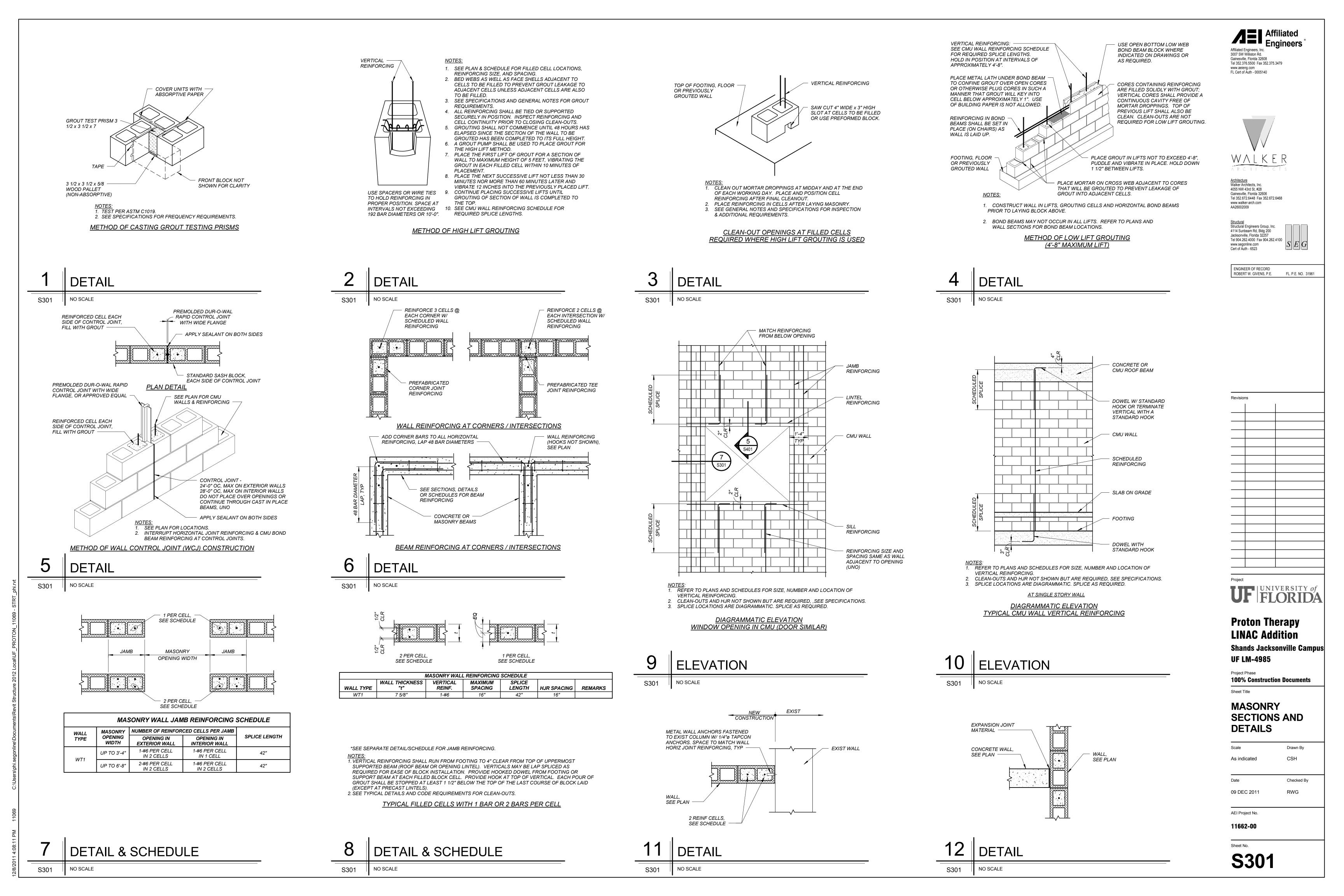
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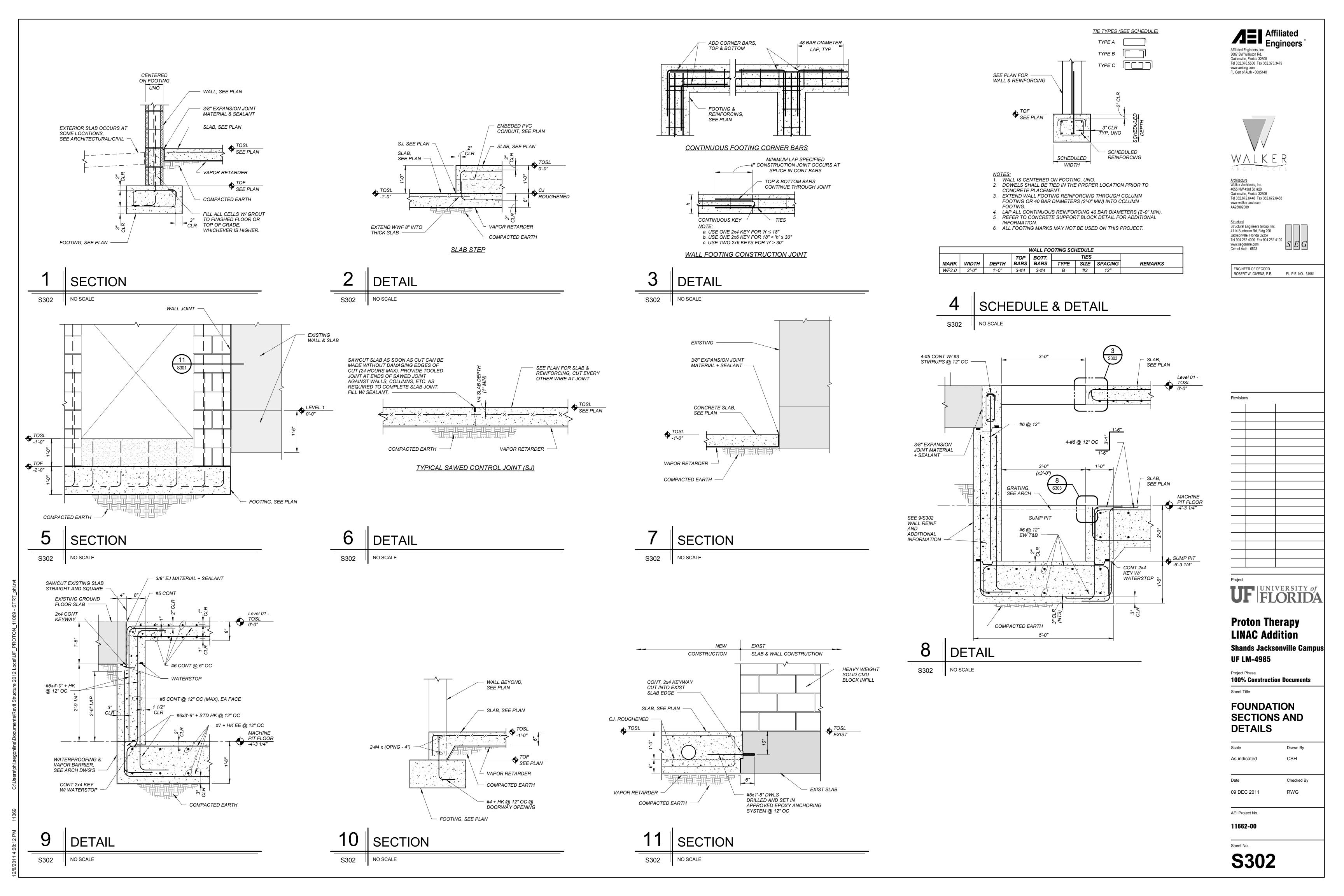
PARTIAL BUILDING **SECTIONS**

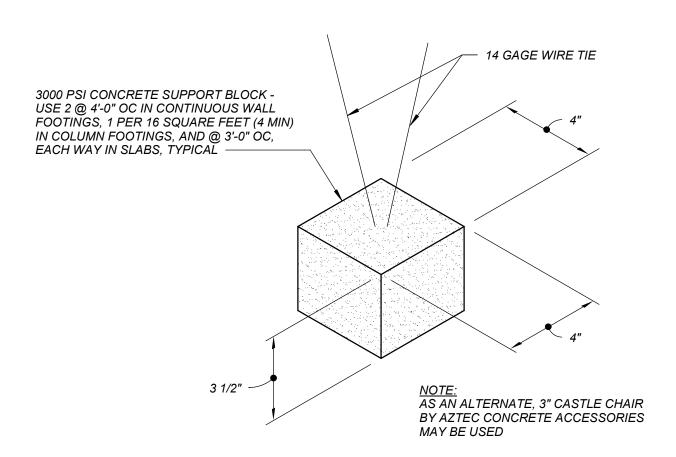
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> AEI Project No. 11662-00





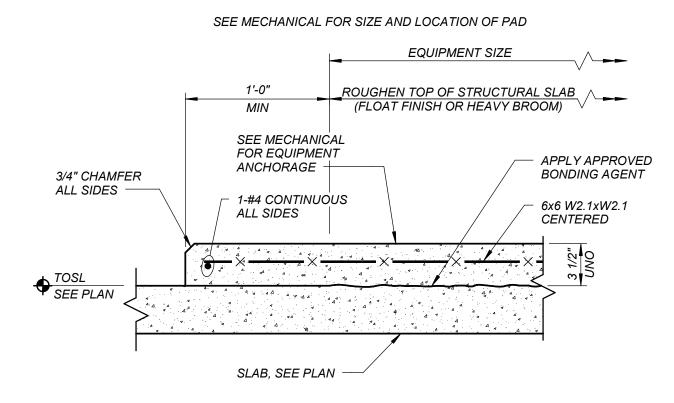


CONTRACTOR FABRICATED CONCRETE SUPPORT BLOCK

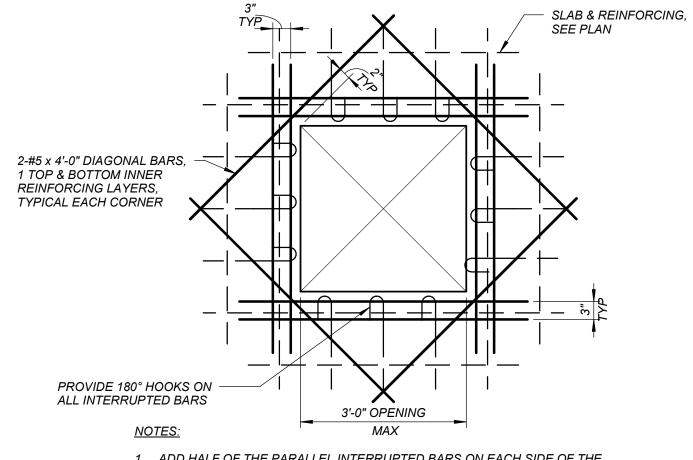
ADDITIONAL BARS AS REQUIRED

SEE PLAN FOR WALL

& REINFORCING



TYPICAL EQUIPMENT PAD



1. ADD HALF OF THE PARALLEL INTERRUPTED BARS ON EACH SIDE OF THE OPENING & ENSURE THAT MINIMUM REINFORCING REQUIREMENTS ARE MET. ADDED REINFORCING SHALL BE NOT LESS THAN THE FOLLOWING: a. 2-#5 MIN @ SLABS ≤ 10" THICK, (1 TOP & BOTTOM, EACH WAY)
 b. 2-#7 MIN @ SLABS > 10" THICK, (1 TOP & BOTTOM, EACH WAY)

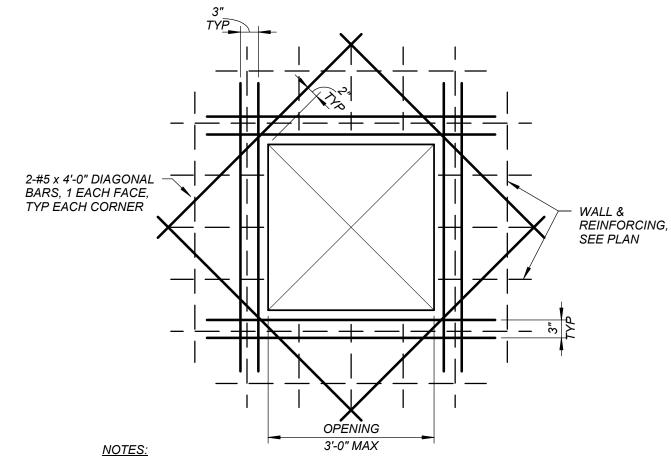
EXTEND REINFORCING 48 BAR DIAMETERS BEYOND THE OPENING OR PROVIDE A STANDARD HOOK AT THE SLAB EDGES AROUND THE OPENING.

SEE PLAN FOR NUMBER

OF REQUIRED STEPS

TYPICAL SMALL SLAB OPENING





NOTES: 3'-0" MAX

1. ADD HALF OF THE PARALLEL INTERRUPTED BARS ON EACH SIDE OF THE OPENING & ENSURE THAT MINIMUM REINFORCING REQUIREMENTS ARE MET.

ADDED REINFORCING SHALL BE NOT LESS THAN THE FOLLOWING.

a. 2-#5 MIN @ WALLS ≤ 12" THICK, (1 EACH FACE, EACH WAY)

b. 2-#7 MIN @ WALLS > 12" THICK, (1 EACH FACE, EACH WAY)

2. EXTEND REINFORCING 48 BAR DIAMETERS BEYOND THE OPENING OR PROVIDE A STANDARD HOOK AT THE WALL EDGES AROUND THE OPENING.

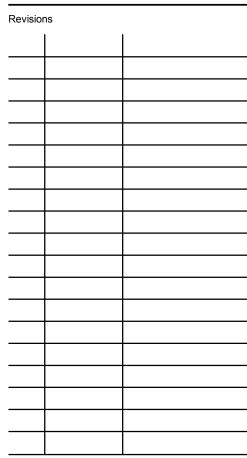
TYPICAL SMALL WALL OPENING ELEVATION

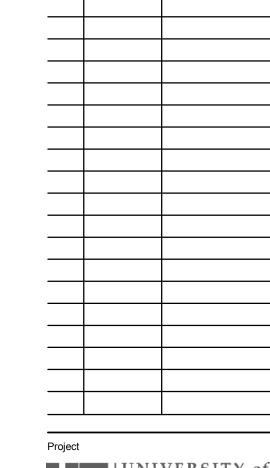
| 4 | DETAIL |
|------|----------|
| S303 | NO SCALE |



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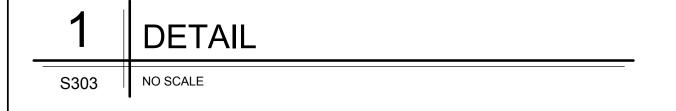
CONCRETE **SECTIONS AND DETAILS**

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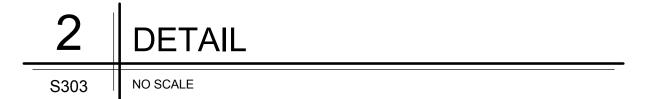
S303

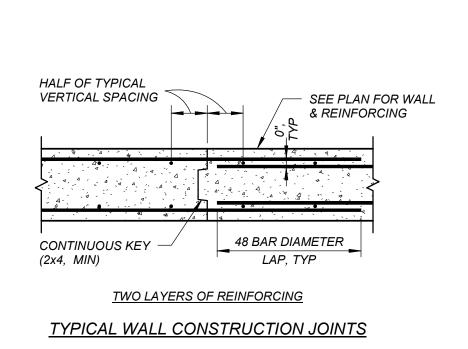


TWO LAYERS OF REINFORCING

TYPICAL WALL CORNER

<u>NOTE</u>: SEE SECTIONS, DETAILS, ETC FOR REINFORCING LAYERING REQUIREMENTS, TYPICAL

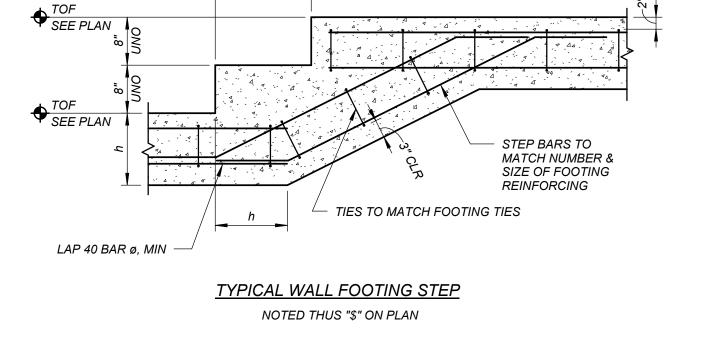




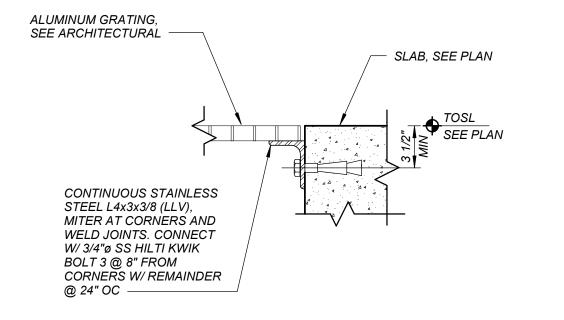
PLAN DETAIL

NO SCALE





| 7 | DETAIL |
|------|----------|
| S303 | NO SCALE |



| 8 | DETAIL |
|------|----------|
| S303 | NO SCALE |

PLAN DETAIL NO SCALE

"U" BARS & DIAGONALS, SAME SIZE & SPACING AS HORIZONTAL REINFORCING

