1     2     3       GENERAL NOTES     3	Ι
GENERAL	GENERAL CONTINUED
<ol> <li>THE DRAWINGS AND SPECIFICATIONS DESCRIBE IN GENERAL THE QUALITY AND CHARACTER OF THE MATERIALS, SHAPE AND CONFIGURATION OF STRUCTURES AND METHOD OF INSTALLATION. MISCELLANEOUS ITEMS OF WORK, MATERIAL, EQUIPMENT, ETC., NECESSARY TO COMPLETE THE INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR WHETHER OR NOT MENTIONED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS.</li> <li>SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.</li> </ol>	<ul> <li>33. "AS REQUIRED" MEANS AS GENERALLY ACCEPTED CONS</li> <li>34. NON-STRUCTURAL BUILDING WHETHER INSIDE OR OUTSII BRACING AT TOP OF WALLS</li> </ul>
<ol> <li>ALL CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS CALLED FOR BY ANY WILL BE AS BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY CONSTRUCTION DOCUMENTS SHALL BE PROVIDED AS THOUGH ON ALL RELATED DOCUMENTS.</li> <li>LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE, DETAILS TAKE PRECEDENCE OVER ALL. CONTRACTOR SHALL NOTIFY COR OF CONFLICTS IN WRITING PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.</li> </ol>	PROTECTION AND ALARM SY ROOF DRAINAGE PIPING; ME LIMITATIONS AS SPECIFIED A 35. CONTRACTOR SHALL PROVID CABINETRY, FURNISHINGS A
5. CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH THE CONSTRUCTION. IF THERE ARE ANY QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE GOVERNMENT BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.	36. THE CONTRACTOR SHALL BI EQUIPMENT. PROVIDE DEMO INCLUDING MECHANICAL, EL
6. CONTRACTOR SHALL NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL ALWAYS GOVERN. CONTRACTOR REQUIRING DIMENSIONS NOT NOTED SHALL CONTACT THE GOVERNMENT FOR SUCH INFORMATION PRIOR TO PROCEEDING WITH WORK RELATED TO THOSE DIMENSIONS EXCEPT FOR DIMENSIONS OR DETAILS OF EXISTING CONDITIONS WHERE CONTRACTOR SHALL FIELD MEASURE.	<ul><li>37. CONTRACTOR SHALL PROTEG</li><li>38. ALL NEW REINFORCING BAR EPOXIED, SEE NOTES FOR</li></ul>
<ol> <li>NO REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS ARE ACCEPTABLE FOR USE AS SHOP DRAWINGS.</li> <li>THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. BARRICADES, SIGNS, LIGHTS, ETC., REQUIRED FOR THE PROTECTION OF PERSONNEL, PROPERTY AND MATERIAL SHALL BE PROVIDED FOR AND MAINTAINED DURING CONSTRUCTION BY THE CONTRACTOR, AND SHALL CONFORM TO ALL GOVERNING CODES, ORDINANCES AND REGULATIONS. THE CONTRACTOR SHALL EMPLOY ALL MEANS NECESSARY TO CONTROL DUST &amp;</li> </ol>	39. PROTECT EXISTING PIPE(S) PIPE(S) THAT PENETRATE N THE SIZE AND LOCATION O WORK SHALL BE VERIFIED ENGINEER. REFER TO MECH DRAWINGS.
DEBRIS AT AND NEAR THE SITE OF WORK AND ALONG APPROACH ROUTES. 9. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL AND/OR ERECT THE CONSTRUCTION AS REQUIRED TO PROPERLY COMPLETE THE WORK. PRIOR TO BEGINNING THE WORK, CONTRACTOR SHALL RETAIN A STATE LICENSED STRUCTURAL ENGINEER WHO WILL REVIEW DETAILS AND DESIGN ALL NECESSARY SHORING WHEN TEMPORARY FORMWORK, SHORING OR	40. EXISTING UNDERGROUND PI DAMAGE AND MAINTAIN OPE CONCRETE WALLS. PIPE SLI
BRACING IS NEEDED FOR CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING FOR ALL MEMBERS AS REQUIRED FOR THE STABILITY OF THE STRUCTURE(S) DURING ALL PHASES OF CONSTRUCTION ADEQUATELY DESIGNED FOR THE IMPOSITION OF ALL LOADS DURING CONSTRUCTION. 10. THE DRAWINGS SHOW THE FORM OF THE COMPLETED STRUCTURE(S) EXCLUSIVE OF ANY PROVISIONS FOR BRACING OR SHORING DURING	41. DURING WELDING OR ANY O ADEQUATE FIRE PROTECTION A. REMOVE COMBUS B. PROVIDE FIRE P
CONSTRUCTION. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO GRAVITY, LATERAL, SEISMIC, WIND, AND OTHER SUCH FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.	C. PROVIDE A FIRE NEAR THE ROOF 42. BEFORE OR CONCURRENT V THE EXISTING SUBBASE OF
11. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR OF ANY CONDITION THAT MIGHT ENDANGER THE STABILITY OF THE STRUCTURE(S) OR CAUSE DISTRESS OF THE STRUCTURE(S). THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR INSPECTION OF THE ELEMENTS DESCRIBED ABOVE, NOR WILL THE DESIGN ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION. THE SPECIFICATIONS AND STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.	43. THE SPECIFICATIONS ARE A DRAWINGS. WHERE REQUIRE
12. THE CONTRACTOR SHALL PROVIDE ALL TOOLS, TRANSPORTATION, UTILITIES, TEMPORARY FACILITIES, AND OTHER SERVICES AS NECESSARY FOR PROPER EXECUTION OF THE WORK, AND SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF THESE ELEMENTS DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE COR FOR DESIGNATION OF THE MATERIAL STORAGE AREA AT THE JOB SITE.	<ol> <li>REFER TO ACI 318 LATEST 301 LATEST EDITION FOR S</li> <li>MINIMUM COMPRESSIVE STR A. FOOTINGS</li> </ol>
<ul> <li>CONTRACTOR SHALL FIELD INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS, ELEVATIONS AND DIMENSIONS OF THE PROJECT, AS SHOWN ON OR REFERENCED ON THE DRAWINGS AND ADDITIONALLY AS NECESSARY TO COMPLETE ALL THE WORK, AND NOTIFY THE GOVERNMENT ABOUT ANY CONDITION REQUIRING MODIFICATION OR CHANGE PRIOR TO BIDDING. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND CLEARLY UNDERSTAND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO BIDDING.</li> <li>14 ENTERING INTO AN AGREEMENT WITH THE GOVERNMENT INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE FAMILIARIZED HIMSELE OR</li> </ul>	B. FOUNDATION WALL C. SLABS-ON-GRADE D. SLABS ON DECK E. STEEL STAIR PANS F. INTERIOR TOPPING
14. ENTERING INTO AN AGREEMENT WITH THE GOVERNMENT INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, FAMILIARIZED HIMSELF OR HERSELF WITH EXISTING CONDITIONS, AND REVIEWED SAME WITH REQUIREMENTS OF CONTRACT DOCUMENTS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR ANY EXTRA COST DUE THE CONTRACTOR'S FAILURE TO INFORM THE GOVERNMENT OF DISCREPANCIES IN TIME TO ISSUE CORRECTIVE ADDENDA PRIOR TO BIDDING. THE CONTRACT DOCUMENTS ILLUSTRATE THE INTENT OF THE WORK TO BE PERFORMED.	G. BUILDING FRAME H. BUILDING WALLS A I. PRECAST WALL PA REFER TO SPECIFICATIONS
15. THE CONTRACTOR SHALL MAINTAIN GOOD HOUSEKEEPING PRACTICES AT THE JOB SITE. EXCESS BUILDING MATERIALS AND DEBRIS SHALL BE REMOVED PROMPTLY FROM THE JOB SITE AND DISPOSED OF AT AN APPROVED DUMPSITE. THE JOB SITE SHALL BE LEFT "BROOM CLEAN" AT THE END OF EACH WORKDAY. BEFORE ACCEPTANCE BY THE GOVERNMENT, THE COMPLETED CONSTRUCTION SHALL BE CLEARED, ANY APPLICABLE LABELS REMOVED, AND ALL OTHER TOUCH UP WORK COMPLETED.	3. EXTERIOR CONCRETE AND CONTENT.
<ol> <li>ALL FINISH MATERIALS SHALL BE PROTECTED AT ALL TIMES AGAINST SUBSEQUENT DAMAGE, UNTIL FINAL ACCEPTANCE BY THE GOVERNMENT.</li> <li>ANY AND ALL REVISIONS SHALL BE IN WRITTEN CHANGE ORDER FORM AND APPROVED AND AUTHORIZED BY THE GOVERNMENT BEFORE BEGINNING WORK.</li> </ol>	<ol> <li>MATERIALS OR ADMIXTURES</li> <li>REINFORCING STEEL SHALL         <ul> <li>DEFORMED BARS</li> <li>WELDARIE DEFORM</li> </ul> </li> </ol>
18. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES, AND SHALL NOTIFY ALL SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS, AS REQUIRED. 10. ALL WORK LISTED, SHOWNL, OR IMPLIED ON ANY CONSTRUCTION DOCUMENTS SHALL RE SUBPLIED AND INSTALLED BY THE CONTRACTOR.	B. WELDABLE DEFORM C. WELDED WIRE FAE D. STEEL FIBERS 6. WHERE DOWELS ARE INDICA
<ol> <li>ALL WORK LISTED, SHOWN, OR IMPLIED ON ANY CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR, EXCEPT WHERE NOTED OTHERWISE, TYPICALLY INDICATED AS "BY OTHERS" OR "NOT IN CONTRACT", SUCH WORK BEING SHOWN FOR COORDINATION PURPOSES.</li> <li>THE CONTRACTOR SHOULD NOTE THAT ONLY THOSE PORTIONS OF THE EXISTING STRUCTURE ARE SHOWN WHERE PERTINENT TO THE LOCATION OF CONTRACTOR SHOULD NOTE THAT ONLY THOSE PORTIONS OF THE EXISTING STRUCTURE ARE SHOWN WHERE PERTINENT TO THE LOCATION OF CONTRACTOR SHOULD NOTE THAT ONLY THOSE PORTIONS OF THE EXISTING STRUCTURE ARE SHOWN WHERE PERTINENT TO THE</li> </ol>	<ul><li>7. PROVIDE CORNER BARS TH/ WALLS AND FOUNDATIONS.</li></ul>
LOCATIONS OF SUPPORT FRAMING MODIFICATION OR ADDITION. DRAWINGS SHALL BE USED FOR LAYOUT RELATIVE TO THE EXISTING STRUCTURE, HOWEVER FIELD VERIFICATION OF FRAMING LOCATIONS IS REQUIRED BEFORE INSTALLATION OF ANY NEW FRAMING. 21. THE CONTRACTOR SHOULD VERIFY EXACT LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS WHERE NOT SPECIFICALLY NOTED ON THIS SHEET, EXISTING BUILDING INFORMATION SHOWN IS FOR REFERENCE ONLY AND ALL INFORMATION SHALL BE FIELD VERIFIED PRIOR TO	<ol> <li>PROVIDE #3 Z-BAR SPACE</li> <li>ALL SLOTS, SLEEVES AND OMECHANICAL, AND VENDOR</li> </ol>
START OF CONSTRUCTION. 22. THE CONTRACTOR SHOULD VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM LIMITED FIELD OBSERVATIONS AND AS-BUILT DRAWINGS, WHICH MAY OR MAY NOT REFLECT ACTUAL CURRENT AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT THE COR TO DETERMINE WHAT SHOULD BE DONE TO MATCH OR ACCOMMODATE EXISTING CONDITIONS AS REQUIRED. BEGINNING OF	<ol> <li>ANCHORS INSTALLED IN HA SHALL OBTAIN APPROVAL FI MISPLACED CAST-IN-PLACE</li> <li>CARE SHALL BE TAKEN IN CLEANED AND ANCHORS INST</li> </ol>
CONSTRUCTION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REFER TO GENERAL NOTES AND SPECIFICATIONS. 23. SUSPENDED PIPING AND CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN THE DRAWINGS, SPECIFICATIONS OR ACCORDING TO THE GOVERNING CODES OVER SUCH WORK.	REPORT. REFER TO DETAILS ON THE CONTRACT DRAWING SEALED BY THE QUALIFIED PROJECT IS LOCATED. THE EQUIVALENT PERFORMANCE
<ul> <li>24. UTILITY CONNECTIONS AND DISCONNECTIONS NECESSARY TO COMPLETE THE WORK WILL BE PERFORMED ON "OFF-HOURS" TIME TO AVOID UTILITY SERVICE INTERRUPTIONS TO FACILITY OPERATIONS IN THE VICINITY OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY INTERRUPTIONS WITH THE COR TO OBTAIN APPROVAL FOR DISRUPTION TIMES AND DURATIONS.</li> <li>25. THE LAYOUT OF ALL ELEMENTS OF CONSTRUCTION AS SHOWN ON THE DRAWINGS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY</li> </ul>	STANDARD(S) AS REQUIRED 12. INCLUDE AN ALLOWANCE IN ARCHITECT OR ENGINEER. A
DIMENSIONED. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT LOCATIONS OF ALL WORK AND COORDINATION BETWEEN TRADES. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. ASSUME EQUAL SPACING IF NOT INDICATED ON DRAWINGS.	OVERHEAD AND PROFIT. <u>SEISMIC REQUIREMENTS</u> 1. THE LATERAL FORCE RESIS <sup>*</sup>
26. WHERE DIMENSIONS AND DETAILS OF SPECIFIC INSTALLATION AND OPERATING INSTRUCTIONS OF EQUIPMENT ARE NOT PROVIDED IN THE DRAWINGS OR SPECIFICATIONS, PERFORM THE WORK ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION ADJUSTMENTS TO PROPERLY INSTALL ALL EQUIPMENT. FULLY COORDINATE AND INSTALL ALL EQUIPMENT COMPONENTS IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS. 27 ORSTRUCTIONS AND UNDERGROUND CONDITIONS EXISTING FOUNDATIONS. UTILITIES FTC. INDICATED ARE FOR INFORMATION ONLY. IT IS THE	BUILDING AND SYSTEMS SH INDIVIDUAL COMPONENTS AN ARCHITECTURAL AND MEP E STRUCTURE WHERE NOT SP PRE-APPROVED ANCHORAGE
<ol> <li>OBSTRUCTIONS AND UNDERGROUND CONDITIONS, EXISTING FOUNDATIONS, UTILITIES, ETC. INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF ALL OBSTRUCTIONS WITH THE APPROPRIATE AGENCY.</li> <li>CONTRACTOR SHALL PROVIDE BARRICADES TO PROTECT THE GENERAL PUBLIC AND TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES.</li> </ol>	2. SUSPENDED PIPING AND CO SPECIFICATIONS OR ACCORE INFORMATION.
29. THE GOVERNMENT MAKES NO REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION, OR EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITIES OR STRUCTURES, WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEANS TO PROTECT UTILITIES AND STRUCTURES NOT OF RECORD WHETHER SHOWN OR NOT ON THESE PLANS.	INFORMATION. 3. FOR BRACING OF SYSTEMS PRE-APPROVED MANUFACTU PRE-APPROVED RESTRAINT
<ul> <li>30. SUPPORT AND BRACE MECHANICAL DUCTWORK AND PIPING, CONDUITS AND CABLE TRAYS, TELECOMMUNICATION WIRES AND CABLE TRAYS TO RESIST DIRECTIONAL FORCES (LATERAL, LONGITUDINAL AND VERTICAL.)</li> <li>31. AT REGULAR INTERVALS, LATERALLY BRACE SUSPENDED CEILINGS AGAINST LATERAL AND VERTICAL MOVEMENTS. INDEPENDENTLY SUPPORT AND LATERALLY PRACE AND LIGHTURES FOR THE PRACE SUSPENDED CEILINGS AGAINST LATERAL AND VERTICAL MOVEMENTS. INDEPENDENTLY SUPPORT</li> </ul>	<ol> <li>REFER TO VA SEISMIC DESI STRUCTURAL BUILDING COM</li> <li>REFER TO ASCE 7–16, CH/</li> </ol>
AND LATERALLY BRACE ALL LIGHTING FIXTURES. 32. "TYPICAL" OR "TYP." MEANS THAT THE CONDITION IS REPRESENTATIVE FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE NOTED. "SIMILAR" OR "SIM." MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS OR DETAILS WITH ONLY SPECIFIC DIFFERENCES NOTED. VERIFY	<ol> <li>REFER TO ASCE 7-16, CH/ AND EQUIPMENT.</li> <li>PROVIDE SUPPORTS AND AI</li> </ol>
DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS. "ALIGN" AS USED IN THESE DOCUMENTS MEANS TO ACCURATELY LOCATE	SYSTEMS, WHICH WILL NOT FLEXIBLE CONNECTIONS TO

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<u>GENE</u>	RAL_CONTINUED	FOU	NDATIONS AND SLABS ON GRADE
33.	"AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE OR BY THE CONTRACT DOCUMENTS.	1.	FOOTING DESIGNS ARE BASED ON A NET SOIL BEARING PRESSURE F NOTED IN THE SOILS REPORT: <b>2,000 NET PSF</b>
34.	NON-STRUCTURAL BUILDING COMPONENTS ARE COMPONENTS OR SYSTEMS THAT ARE NOT PART OF THE BUILDING'S STRUCTURAL SYSTEM WHETHER INSIDE OR OUTSIDE, ABOVE OR BELOW GRADE. NON-STRUCTURAL COMPONENTS OF BUILDINGS INCLUDE; SUSPENDED CEILING; BRACING AT TOP OF WALLS THAT DO NOW FULLY EXTEND FROM FLOW TO STRUCTURE ABOVE; POWER AND LIGHTING SYSTEMS; PANELS; FIRE PROTECTION AND ALARM SYSTEMS; TELEPHONE AND COMMUNICATION SYSTEMS; HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEMS; ROOF DRAINAGE PIPING; MEDICAL GAS PIPING; SPRINKLER SYSTEMS; MEDICAL EQUIPMENT AND OTHER EQUIPMENT EXCEEDING WEIGHT	2.	CONTRACTOR SHALL READ GEOTECHNICAL REPORT <b>#23–0352</b> BY <b>GE</b> CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL REAL SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE
35.	LIMITATIONS AS SPECIFIED AND DETAILED. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING HANGERS OR OTHER SUPPORTS FOR ALL FIXTURES, EQUIPMENT, CABINETRY, FURNISHINGS AND ALL OTHER ITEMS REQUIRING SAME.	3.	A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOU ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATOR OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN
36.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR PROPER INSTALLATION OF MATERIAL AND EQUIPMENT. PROVIDE DEMOLITION AND PATCH/REPAIR IN ALL AREAS (WHETHER SPECIFICALLY SHOWN OR NOT) TO ACCOMMODATE ALL WORK INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION.	4.	INTERIOR AND EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW MINIM FINISHED GRADE. STANDARD PROCEDURES OF FROST PROTECTION FO CONSTRUCTION. BACKFILLING OF EXCAVATIONS SHALL BE DONE AS S
37.	CONTRACTOR SHALL PROTECT, PATCH AND REFINISH TO MATCH EXISTING AREAS TO REMAIN AND AREAS DISTURBED BY NEW CONSTRUCTION.	5.	USE ONLY STRUCTURAL FILL MATERIAL AS NOTED IN THE GEOTECHNI DISTANCE BEYOND THE EDGES OF THE BUILDINGS/STRUCTURES.
38.	ALL NEW REINFORCING BARS OR THREADED ROD DOWELS PLACED INTO EXISTING CONCRETE, CONCRETE MASONRY OR BRICK SHALL BE EPOXIED, SEE NOTES FOR DRILLED IN ANCHORS.	6.	FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INS THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS
39.	PROTECT EXISTING PIPE(S) FROM DAMAGE AND MAINTAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE PIPE SLEEVE(S) FOR EXISTING PIPE(S) THAT PENETRATE NEW CONCRETE WALLS. PIPE SLEEVES SHALL PROVIDE A MINIMUM OF 2" CLEARANCE BETWEEN SLEEVE AND PIPE. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE AUTOMAL FOR STRUCTURAL	7. 8.	
40.	ENGINEER. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. EXISTING UNDERGROUND PIPE(S) TO REMAIN UNLESS SPECIFICALLY SHOWN FOR REMOVAL ON PLANS. PROTECT EXISTING PIPE(S) FROM DAMAGE AND MAINTAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE PIPE SLEEVE(S) FOR EXISTING PIPE(S) THAT PENETRATE NEW	9.	ACCEPTED SAW CUT METHODS. SLAB POURS SHALL BE SEPARATED E JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED CONTROL/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON
/1	CONCRETE WALLS. PIPE SLEEVES SHALL PROVIDE A MINIMUM OF 2" CLEARANCE BETWEEN SLEEVE AND PIPE. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE		SOIL SUPPORTED SLABS SHALL BE CONSTRUCTED OVER PREPARED S
41.	ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS. AS A MINIMUM:	BUIL	DING AND STRUCTURE PAD PREPARATION AND SUBGRADE
	<ul> <li>REMOVE COMBUSTIBLE MATERIALS FROM AREAS OF WELDING AND SPARKS.</li> <li>PROVIDE FIRE PROOF BLANKETS AND SHIELDS TO CONTAIN SPARKS WHERE COMBUSTIBLE MATERIALS CANNOT BE REMOVED.</li> <li>PROVIDE A FIRE SAFETY OBSERVER WITH A FIRE EXTINGUISHER ON BOTH THE ROOF AND BELOW THE ROOF DURING WELDING NEAR THE ROOF STRUCTURE.</li> </ul>	1.	THE GEOTECHNICAL REPORT RECOMMENDATIONS SUPERCEDE DIRECTIC CONFLICTING INFORMATION IS ENCOUNTERED, FOLLOW PRESCRIBED M
42.	BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE EXISTING SUBBASE OF THE EXISTING SLAB AND THE FOUNDATIONS TO PREVENT UNDERMINING.	2.	AFTER PERFORMING ANY REQUIRED CUTS, STRIPPING AND PROOFROL WITH THE DRAWINGS AND SPECIFICATIONS.
43.	THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE COR.	3.	DURING COMPACTION, THE EXPOSED SUBGRADE AND EACH LIFT OF OR REWORKED AS NECESSARY UNTIL THE LIFT IS APPROVED BY THE GE MATERIAL.
<u>CONC</u> 1.	<u>RETE</u> REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING PRACTICES AND FABRICATION AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING REINFORCED CONCRETE.	4.	THE GROUND SURFACE SHOULD BE SLOPED AWAY FROM THE BUILDI BUILDING. WATER SHOULD NOT BE ALLOWED TO POND NEAR THE BU CONTENT OF THE SOIL SHOULD BE MAINTAINED NEAR OPTIMUM UNTI SHOULD ALWAYS CONTAIN ENOUGH MOISTURE SO THAT SURFACE CRA SHALL BE EVALUATED JUST BEFORE CONCRETE FOR THE FLOOR IS F
2.	MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS: A. FOOTINGS 3000 PSI	5.	IMMEDIATELY NOTIFY THE COR IF UNUSUAL SOIL CONDITIONS ARE FO
	B. FOUNDATION WALLS AND PEDESTALS4000 PSIC. SLABS-ON-GRADE3000 PSID. SLABS ON DECK (SUSPENDED SLABS)3000 PSI	6.	PROTECT EXISTING STRUCTURES AND UTILITIES WITHIN THE BUILDING TO VA.
	E. STEEL STAIR PANS (SLABS ON NON-COMPOSITE DECK)3000 PSIF. INTERIOR TOPPING SLABS4000 PSI LIGHTWEIGHTG. BUILDING FRAME MEMBERS (OTHER THAN PRECAST)4000 PSI	7.	DO NOT ALLOW STORED EXCAVATION MATERIAL TO DISRUPT PROPER TO PREVENT LOSS OR SPREADING OF SILT MATERIALS FROM STORAG
	H. BUILDING WALLS AND PILASTERS 4000 PSI I. PRECAST WALL PANELS, SLAB PANELS, BEAMS 5000 PSI	8.	BUILDING PAD AND SLAB SUBBASE SHALL BE PREPARED IN ACCORD
	REFER TO SPECIFICATIONS FOR MAXIMUM WATER/CEMENT RATIOS, MINIMUM CEMENT CONTENTS AND OTHER MIX DESIGN REQUIREMENTS. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.	9.	EXPANSIVE SOILS SHALL BE REMOVED TO A MINIMUM OF SIX (6) FE WITH PROPERLY COMPACTED LOW PLASTICITY STRUCTURAL FILL.
3.	EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL BE AIR-ENTRAINED. REFER TO SPECIFICATIONS FOR AIR CONTENT.	10.	SLAB-ON-GRADES SHALL BE SUPPORTED ON A MINIMUM FOUR (4) CHANGE SUBGRADE.
4.	MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.		ALL IMPORTED FILL SHALL CONFORM TO THE REQUIREMENTS AS STA A VAPOR RETARDER MEMBRANE (15-MIL POLYETHYLENE, REFER TO A
5.	REINFORCING STEEL SHALL MEET THE FOLLOWING:       ASTM A615, GRADE 60         A. DEFORMED BARS       ASTM A706, GRADE 60         B. WELDABLE DEFORMED BARS       ASTM A706, GRADE 60		HELP REDUCE MOISTURE EMISSIONS THROUGH THE SLAB.
	C. WELDED WIRE FABRIC ASTM A185 D. STEEL FIBERS ASTM A820	<u>STRU</u> 1.	<u>JCTURAL STEEL</u> STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STR
6.	WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.		TYPE A. W, WT SHAPES:
7.	PROVIDE CORNER BARS THAT MATCH AND LAP CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.		B. BARS, PLATES, CHANNELS, ANGLES: C. SQUARE, RECTANGULAR HSS: D. ROUND HSS:
8.	PROVIDE #3 Z-BAR SPACERS AT 24 INCHES ON CENTER EACH WAY FOR CONCRETE WALLS HAVING REINFORCING STEEL IN BOTH FACES.		E. STRUCTURAL STEEL PIPE: F. ALL—THREAD RODS: G. ANCHOR RODS:
9.	ALL SLOTS, SLEEVES AND OTHER EMBEDDED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED. SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND VENDOR DRAWINGS FOR SIZE AND LOCATION.		H. HEADED STUD ANCHORS:
10.	ANCHORS INSTALLED IN HARDENED CONCRETE SHALL ONLY BE USED WHERE SPECIFIED ON THE CONTRACT DRAWING. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.	2.	BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4 THREADS EXCLUDED FROM THE SHEAR PLANE, INSTALLED SNUG TIGH THAN BOLT DIAMETER UNLESS OTHERWISE NOTED.
11.	CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED AND ANCHORS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED WRITTEN INSTRUCTIONS AND APPLICABLE ESR	3. 4.	WELDING SHALL MEET ANSI/AWS D1.1 STRUCTURAL WELDING CODE, I THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADE
	REPORT. REFER TO DETAILS FOR ANCHOR SIZE AND EMBEDMENT. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE COR ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT		ON THE CONTRACT DOCUMENTS. ALL CONNECTIONS NOT FULLY DETA BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL A
	EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.	5.	PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN PROVIDE ASTM A194 GRADE 2H NUTS AND F436 WASHERS FOR ANC
	INCLUDE AN ALLOWANCE IN THE BID PRICE FOR 5000 POUNDS OF REINFORCING STEEL TO BE FABRICATED AND PLACED AS DIRECTED BY ARCHITECT OR ENGINEER. ALLOWANCE IS TO INCLUDE, BUT IS NOT LIMITED TO, MATERIAL, DETAILING, FABRICATION, SHIPPING, INSTALLATION, OVERHEAD AND PROFIT.	6.	PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTE COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR GREATER. N NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000
	II <u>C REQUIREMENTS</u> THE LATERAL FORCE RESISTING SYSTEM OF THE OVERALL STRUCTURE HAS BEEN DESIGNED TO ACCOUNT FOR SEISMIC LOADING FROM THE	7.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRA MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, CIVIL, MEC
	BUILDING AND SYSTEMS SHOWN ON THESE DRAWINGS ACCORDING TO IBC, ASCE 7, AND VA SEISMIC REQUIREMENTS. BRACING OF ALL INDIVIDUAL COMPONENTS AND SYSTEMS TO THE MAIN STRUCTURE IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MEP DRAWINGS AND EQUIPMENT MANUFACTURER REQUIREMENTS FOR SPECIFIC COMPONENT BRACING TO THE MAIN	8.	AND SPECIFICATIONS FOR MORE INFORMATION AND MISCELLANEOUS S CONNECTING PLATES, BASE PLATES, STIFFENERS, DOUBLER PLATES,
	STRUCTURE WHERE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. DELEGATED/DEFERRED BRACING DESIGN OR MANUFACTURER PRE-APPROVED ANCHORAGE SHALL RESIST, AT MINIMUM, THE LOADING INDICATED ON THESE DRAWINGS UNDER THE SECTION "DESIGN PARAMETERS".	0.	HIGHEST GRADE MEMBER AT CONNECTION, EXCEPT WHERE NOTED OT
2.	SUSPENDED PIPING AND CONDUIT SHALL BE SEISMICALLY BRACED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN THE DRAWINGS,	9.	ALL STEEL FABRICATION AND DETAILS SHALL COMPLY WITH MOST STE THE REFERENCED CODES AND STANDARDS (2021 IBC), AND CONTRA
3.	SPECIFICATIONS OR ACCORDING TO THE GOVERNING CODES OVER SUCH WORK. REFER TO MEP DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. FOR BRACING OF SYSTEMS NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS, REFER TO UNISTRUT SEISMIC BRACING FOR OSHPD		ALL WELDS SHALL BE E700X UNLESS NOTED OTHERWISE.
	PRE-APPROVED MANUFACTURER CERTIFICATION (OSHPD OPM-0295-13) FOR UNISTRUT BRACING SYSTEMS AND DETAILS. OTHER PRE-APPROVED RESTRAINT SYSTEMS ARE ACCEPTABLE AS APPROVED BY COR AND STRUCTURAL ENGINEER.		CODE, AWS REQUIREMENTS, AND CONTRACT DOCUMENTS. WELD INSPECTOR, REFER TO SGOO2 SPECIAL INSPECTION REQUIREMENTS FO
4.	REFER TO VA SEISMIC DESIGN REQUIREMENTS, H–18–8, NOVEMBER 2019 FOR ADDITIONAL REQUIREMENTS FOR SEISMIC BRACING OF NON STRUCTURAL BUILDING COMPONENTS AND EQUIPMENT.		ALL WELDING SHALL BE BY CERTIFIED WELDERS AND SHALL CONFOR ALL STEEL WITH YIELD STRENGTHS OF 36000 PSI OR GREATER SHAL
5.	REFER TO ASCE 7–16, CHAPTER 13 FOR ADDITIONAL REQUIREMENTS FOR SEISMIC BRACING OF NON STRUCTURAL BUILDING COMPONENTS AND EQUIPMENT.	14.	THE DESIGN CODE. "ALL THREAD" MATERIAL SHALL NOT BE SUBSTITUTED FOR BOLTS IN
6.	PROVIDE SUPPORTS AND ANCHORING SO THAT, UPON APPLICATION OF SEISMIC FORCES, PIPING REMAINS FULLY CONNECTED AS OPERABLE SYSTEMS, WHICH WILL NOT DISPLACE SUFFICIENTLY TO DAMAGE ADJACENT OR CONNECTING EQUIPMENT OF BUILDING MEMBERS. PROVIDE		APPLICATION, UNLESS NOTED OTHERWISE. ER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN STEEL)

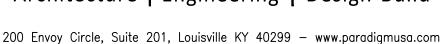
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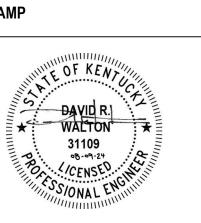
4

- SYSTEMS, WHICH WILL NOT DISPLACE SUFFICIENTLY TO DAMAGE ADJACENT OR CONNECTING EQUIPMENT OF BUILDING MEMBERS. PROVIDE FLEXIBLE CONNECTIONS TO ALLOW MOVEMENT AT CRITICAL ELEMENTS. REFER TO MEP DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
- 7. REFER TO SPECIFICATIONS FOR APPROVED BRACING METHODS OF SUSPENDED CEILING SYSTEMS.

## ARCHITECT/ENGINEER OF RECORD paradigm

Architecture | Engineering | Design-Build







REQUIREMENTS & ATTACHMENT TO STEEL.

F, AS INDICATED BY THE IBC AND ASCE CODES.

READ GEOTECHNICAL REPORT #23-0352 BY GEOTEK ENGINEERING AND TESTING SERVICES, INC., DATED MAY 18, 2023 ESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT IATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE GEOTECHNICAL REPORT.

GISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE , SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA HER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND CONSULTING ENGINEER NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.

IOR FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS **30"** BELOW ADJACENT ANDARD PROCEDURES OF FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER KFILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST. RAL FILL MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT FOR FILL BELOW BUILDINGS/STRUCTURES AND REQUIRED

SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST RACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.

ATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. PENETRATIONS SHALL BE THROUGH FOUNDATION CUT CONTRACTION JOINT OR DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. REFER TO SPECIFICATIONS FOR

METHODS. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION DCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE STRUCTURAL ENGINEER. TION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER.

ABS SHALL BE CONSTRUCTED OVER PREPARED SUBGRADE AS SPECIFIED IN THE GEOTECHNICAL REPORT.

### PAD PREPARATION AND SUBGRADE

REPORT RECOMMENDATIONS SUPERCEDE DIRECTION PROVIDED ON THESE DRAWINGS OR SPECIFICATIONS. WHERE ATION IS ENCOUNTERED, FOLLOW PRESCRIBED METHODS AND MATERIALS AS INDICATED IN THE GEOTECHNICAL REPORT. ANY REQUIRED CUTS, STRIPPING AND PROOFROLLING, THE EXPOSED SUBGRADE SHALL BE PREPARED IN ACCORDANCE

THE EXPOSED SUBGRADE AND EACH LIFT OF COMPACTION FILL SHALL BE TESTED FOR MOISTURE AND DENSITY AND SSARY UNTIL THE LIFT IS APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ADDITIONAL

CE SHOULD BE SLOPED AWAY FROM THE BUILDING ON ALL SIDES TO PREVENT WATER FROM COLLECTING NEAR THE OULD NOT BE ALLOWED TO POND NEAR THE BUILDING DURING OR AFTER CONSTRUCTION. IN ADDITION, THE MOISTURE DIL SHOULD BE MAINTAINED NEAR OPTIMUM UNTIL THE FLOOR SLAB IS CONSTRUCTED. THEREFORE, THE BUILDING PAD NTAIN ENOUGH MOISTURE SO THAT SURFACE CRACKS DO NOT DEVELOP. THE MOISTURE CONTENT OF THE BUILDING PAD JUST BEFORE CONCRETE FOR THE FLOOR IS PLACED. THE COR IF UNUSUAL SOIL CONDITIONS ARE FOUND.

TRUCTURES AND UTILITIES WITHIN THE BUILDING PAD AREA FROM DAMAGE. RESTORE ALL ITEMS DAMAGED AT NO COST

RED EXCAVATION MATERIAL TO DISRUPT PROPER DRAINAGE OF AREA. PROVIDE EROSION CONTROL AND SWPPP MEASURES OR SPREADING OF SILT MATERIALS FROM STORAGE AREAS.

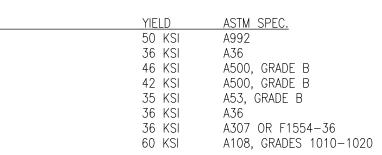
SLAB SUBBASE SHALL BE PREPARED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

ALL BE REMOVED TO A MINIMUM OF SIX (6) FEET AWAY FROM THE BUILDING AREAS. THESE SOILS SHALL BE REPLACED IPACTED LOW PLASTICITY STRUCTURAL FILL. HALL BE SUPPORTED ON A MINIMUM FOUR (4) INCH THICK AGGREGATE BASE ON TOP OF COMPACTED LOW VOLUME

SHALL CONFORM TO THE REQUIREMENTS AS STATED IN THE DRAWINGS AND SPECIFICATIONS.

MEMBRANE (15-MIL POLYETHYLENE, REFER TO ARCH.) SHOULD BE PLACED IMMEDIATELY BELOW THE FLOOR SLAB TO URE EMISSIONS THROUGH THE SLAB.

### SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTHS:



EAM AND COLUMN CONNECTIONS SHALL BE 3/4" DIAMETER ASTM A325 HIGH–STRENGTH BEARING TYPE BOLTS WITH FROM THE SHEAR PLANE, INSTALLED SNUG TIGHT, UNLESS NOTED OTHERWISE. BOLT HOLES SHALL BE  $\frac{1}{16}$  INCH LARGER UNLESS OTHERWISE NOTED.

ANSI/AWS D1.1 STRUCTURAL WELDING CODE, LATEST REVISION. ELECTRODES SHALL BE 70KSI LOW HYDROGEN SERIES. ALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED DOCUMENTS. ALL CONNECTIONS NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL SIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.

JTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. GRADE 2H NUTS AND F436 WASHERS FOR ANCHOR BOLTS.

I NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION EXCEPT USE 2 1/2 INCH NON-SHRINK GROUT WHEN DLTS ARE 1 1/4 INCH DIAMETER OR GREATER. NON-SHRINK GROUT, WHERE INDICATED ON PLANS, SHALL BE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

RACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID, REGARDLESS ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE, BUT NOT LIMITED TO, L ITEMS SHOWN ON ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. REFER TO DRAWINGS FOR MORE INFORMATION AND MISCELLANEOUS STEEL REQUIREMENTS.

, BASE PLATES, STIFFENERS, DOUBLER PLATES, CONTINUITY PLATES, SHEAR TABS, ETC., SHALL BE SAME GRADE AS IBER AT CONNECTION, EXCEPT WHERE NOTED OTHERWISE.

ION AND DETAILS SHALL COMPLY WITH MOST STRINGENT OF AISC CODE (2022 AISC 360), THE AWS CODE (2020 D1.1), DDES AND STANDARDS (2021 IBC), AND CONTRACT DOCUMENTS. E E700X UNLESS NOTED OTHERWISE.

CCEPTANCE OF ALL WELDS, INCLUDING ALL PENETRATION WELDS, IS PER THE MOST STRINGENT OF THE 2020 AWS D1.1 MENTS, AND CONTRACT DOCUMENTS. WELD INSPECTIONS SHALL BE PERFORMED BY A 3RD PARTY CERTIFIED WELDING O SG002 SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.

. BE BY CERTIFIED WELDERS AND SHALL CONFORM TO ALL CODE AND AWS REQUIREMENTS.

D STRENGTHS OF 36000 PSI OR GREATER SHALL BE IDENTIFIED BY THE MILL AND FABRICATION IN ACCORDANCE WITH NAL SHALL NOT BE SUBSTITUTED FOR BOLTS IN STEEL, CONCRETE, TIMBER, MASONRY, OR ANY OTHER STRUCTURAL

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).

2. MINIMUM STEEL TENSILE STRENGTH Fu=58 KSI. 3. MINIMUM SPACING = 1 INCH, MINIMUM EDGE DISTANCE = 1/2 INCH.

4. USE KNURLED SHANK FASTENERS FOR ALL CONNECTIONS.

5. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS INDICATED (OR EQUIVALENT ICC-ESR REPORTS OR OTHER REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO THE VA COR). SEE IBC, ASCE AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR PAF

6. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH APPLICABLE CODES. ALLOWABLE STRENGTHS ARE FOR SINGLE FASTENERS, WHICH MEET THE REQUIREMENTS PER NOTES ABOVE. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ICC-ESR REPORT INDICATED FOR FASTENERS SHOWN ON DRAWINGS. 8. TOTAL ALLOWABLE TENSION, SHEAR OR TENSION SHEAR COMBINATION SHALL NOT EXCEED 250 LBS IN SEISMIC DESIGN CATEGORIES D, E AND

9. STANDARD PAF INSTALLED TO STEEL UNLESS NOTED OTHERWISE: HILTI .177"Ø KNURLED SHANK PAF (ICC-ESR 1663) (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE. REFER TO DETAILS FOR QUANTITY AND SPACING.

Office of Construction and Facilities	Drawing Title GENERAL STRUCTURAL NOTES	Phase 100% CONSTRUCTION DOCUMENTS	Proje
Management	Approved: Project Director		Locat
<b>VA</b> U.S. Department of Veterans Affairs		FULLY SPRINKLERED	Issue
;	7	8	9

### DESIGN PARAMETERS

1. BUILDING CODE 2. DEAD LOADS FLOOR LEVEL (SUPERIMPOSED) ROOF LEVEL (SUPERIMPOSED – TAPERED INSULATION AND ROOFING) ROOF LEVEL (SUPERIMPOSED – FRAMED SLOPED ROOFING SYSTEM)

3. LIVE LOADS OCCUPIED FLOORS (INCLUDES PARTITION ALLOWANCE)

MECHANICAL ROOMS 4. SNOW LOADS

A. GROUND SNOW LOAD, Pg B. ROOF SNOW LOAD, Pf C. SNOW EXPOSURE FACTOR, Ce

D. IMPORTANCE FACTOR, I E. THERMAL FACTOR, Ct

F. MAX SNOW DRIFT LOAD 5. WIND LOADS

> A. BASIC WIND SPEED (3 SECOND GUST) ULTIMATE WIND SPEED, Vult

SERVICE LEVEL WIND SPEED, Vasd B. RISK CATEGORY C. WIND EXPOSURE CATEGORY

D. INTERNAL PRESSURE COEFFICIENT E. DESIGN WIND PRESSURES ON PRIMARY STRUCTURE

1. WALLS WINDWARD & LEEWARD

SIDEWALL 2. PARAPETS WINDWARD

LEEWARD

3. ROOF NORMAL TO RIDGE WINDWARD CASE I

LEEWARD ALL OTHER CONDITIONS (0–36 FT) F. DESIGN WIND PRESSURES ON COMPONENTS AND CLADDING

WINDWARD CASE II

1. WALLS INTERIOR ZONE END ZONE

2. PARAPETS INTERIOR ZONE

END ZONE 3. ROOF (GROSS)

INTERIOR ZONE END ZONE

CORNER ZONE 4. WIDTH OF END / CORNER ZONE

5. EXTERIOR DOORS MAN DOORS ENTRANCE DOORS

6. EARTHQUAKE LOADS A. MAPPED SPECTRAL RESPONSE ACCELERATION (SHORT PERIOD), SS B. MAPPED SPECTRAL RESPONSE ACCELERATION (1-SEC. PERIOD), S1

C. DESIGN SPECTRAL RESPONSE ACCELERATION (SHORT PERIOD), SDS D. DESIGN SPECTRAL RESPONSE ACCELERATION (1-SEC. PERIOD), SD1 E. IMPORTANCE FACTOR, I

F. SEISMIC DESIGN CATEGORY G. SITE CLASS

H. BASIC STRUCTURAL SYSTEM I. BASIC SEISMIC FORCE RESISTING SYSTEM

J. RESPONSE MODIFICATION COEFFICIENT, R K. SYSTEM OVERSTRENGTH FACTOR

L. DEFLECTION AMPLIFICATION FACTOR, Cd M. SEISMIC RESPONSE COEFFICIENT, Cs N. ANALYSIS PROCEDURE

POWER ACTUATED FASTENER (PAF) GENERAL NOTES (INSTALLED IN CONCRETE FILLED METAL DECK OR S 1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDI

AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).

2. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAN REDUCTIONS IN CAPACITY PER ICC-ESR AND ASCE-7 REQUIREMENTS.

3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS PER ICC-ESR APPLICABLE ICC-ESR REPORT SUITABLE FOR USE IN SEISMIC RESISTANCE FOR NON-STRUCTURAL UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED.

4. MINIMUM CONCRETE STRENGTH FOR USE OF PAF CONNECTORS IS F'C=2,000 PSI FOR NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE.

5. PAF INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF MANUFACTURERS INSTRUCTIONS.

6. MINIMUM EDGE DISTANCE IS 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE I

7. STEEL DECK SHALL BE A MINIMUM OF 20 GA.

8. CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK MUST BE A MINIMUM OF 3 1/4" AT LIG 9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD E PERMITTED BY IBC) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY IBC AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOAD SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH L

10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE OR STRUCTURAL SLABS AS EXIST ON TH ARE USED TO LOCATE STRAND AND REINFORCEMENT PRIOR TO FASTENER INSTALLATION.

11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHALL THIS

BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT. THIS 12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS INDICATED (OR EQUIVALEN

TESTING AGENCIES ACCEPTABLE TO CODE). 13. TESTING OF PAF SHALL BE PER IBC REQUIREMENTS. MINIMUM CONCRETE SUBSTRATE THICKNESS

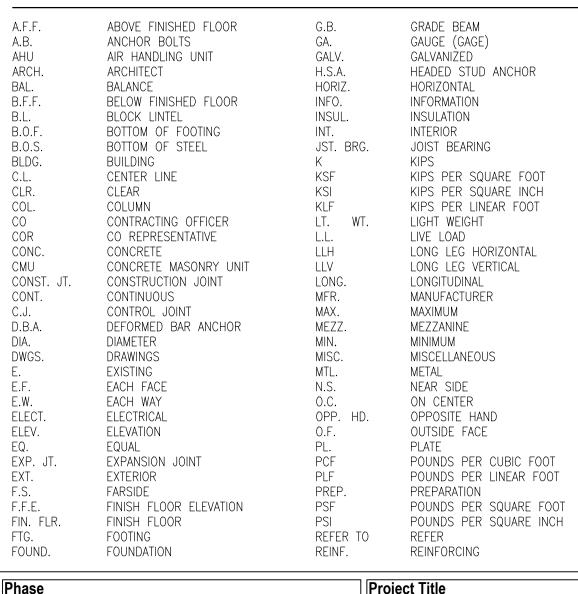
CONCRETE SUBSTRATE.

14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACHED TRACKS OF INTERIOR NON-SHEAR WALL I LEAST THREE FASTENERS.

15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXC F, AS INDICATED BY THE IBC AND ASCE CODES.

16. REFER TO DRAWINGS AND NOTES FOR ADDITIONAL PAF REQUIREMENTS.

### ABBREVIATIONS



DESIGN REPLACE B

<sup>tion</sup> SIOUX FALLS VA SIOUX FALLS, SD 57105 Date 08-09-2024

2021 INTERNATIONAL BUILDING CODE / ASCE 7–16 VA DESIGN GUIDE / VA H–18–8 10 PSF	
10 PSF 20 PSF 20 PSF 100 PSF 125 PSF 50 PSF 42 PSF 1.0 1.2 1.0 91 PSF 120 MPH 92.95 MPH IV	A
C 0.18 (LOADS INCLUDE .6 SERVICE LEVEL FACTOR) 21.6 PSF -14.9 PSF	
29.6 PSF -19.7 PSF 9.6 PSF -13.2 PSF -13.2 PSF -18.1 PSF 20.4/-22.3 PSF 20.4/-25.9 PSF 43.4 PSF 47.4 PSF 19.4/-19.9 PSF	В
19.4/-23.8 PSF 19.4/-23.8 PSF 12 FT 21.0/-27.1 PSF 20.0/-25.0 PSF 0.079 0.022 0.084 0.035	
0.003 1.5 A D BUILDING FRAME SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS 2.0 2.5 2.0 0.063W (0.044W ASD) EQUIVALENT LATERAL FORCE PROCEDURE	С
<u>DECK OR SLAB</u> EN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER LEVEL DEMAND IN ACCORDANCE WITH GOVERNING CODES WITH VER ICC-ESR REPORT INDICATED, OR EQUIVALENT PRODUCT WITH -STRUCTURAL COMPONENTS. THE ALLOWABLE STRENGTHS ARE BASED IR NORMAL WEIGHT CONCRETE AND F'C=3,000 PSI FOR ALL LIGHT REMENTS OF THE INSTALLATION CRITERIA PER IBC AND FROM THE EDGE OF THE DECK OR SLAB. 1/4" AT LIGHT WEIGHT CONCRETE COMPOSITE METAL DECK. NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS YEW BY IBC (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES ENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY FOR SUCH LOADING BY CODE. EXIST ON THIS SITE UNLESS NON-DESTRUCTIVE TESTING METHODS SN. SHALL THIS OCCUR THE COR AND STRUCTURAL ENGINEER SHALL REQUIVALENT ICC-ESR REPORTS OR OTHER REPORTS FROM OTHER THICKNESS IS THREE TIMES THE PAF PENETRATION INTO THE SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT ALL NOT EXCEED 90 LBS IN SEISMIC DESIGN CATEGORIES D, E AND	D
REQD.REQUIRED RTUROF TOP UNITQTY.QUANTITYSCHED.SCHEDULESIM.SIMILARSP.SPACESSPECS.SPECFICATIONSSTD.STANDARDT&BTOP AND BOTTOMOOTT.C.E.TOP OF COLUMNOTT.O.F.TOP OF FOOTINGT.O.P.TOP OF FOOTINGT.O.P.TOP OF PIERALT.O.S.TYP.TYPICALU.N.O.UNLESS NOTED OTHERWISEUNREINF.UNREINFORCEDVERT.VERTICAL	F
FOOT FOOT E FOOT E INCH Project Number 438-22-900	
ACE BOILER PLANT Building Number 12 LLS VAMC Checked Drawn SG001	
TWW         DRW           10	

<u>NON-STRUCTURAL COMPONENTS, EQUIPMENT AND PIPING SUPPORT/BRACING NOTES</u>	POST-INSTALLED ANCHORS
<ol> <li>PERMANENT EQUIPMENT AND NONSTRUCTURAL COMPONENTS SHALL BE SEISMICALLY BRACED IN CONFORMANCE WITH IBC, ASC CHAPTER 13, AND VA H-18-8 REQUIREMENTS AND AS NOTED ON PLANS, SPECIFICATIONS AND DETAILS.</li> </ol>	
<ol> <li>REFER TO ASCE 7, SECTION 13.1.4 FOR SPECIFIC COMPONENT EXEMPTIONS FROM THE REQUIREMENTS OF SEISMIC BRACING.</li> <li>BRACING, CONNECTIONS, HANGERS, SUPPORTS, BRACKETS, ANCHORS, ETC. SHALL BE DESIGNED BY A LICENSED ENGINEER WI</li> </ol>	THE COR PRIOR TO USING F
<ul> <li>ALL NONSTRUCTURAL COMPONENTS IN CRITICAL FACILITIES SHALL HAVE A COMPONENT IMPORTANCE FACTOR, Ip=1.5 FOR NEW STRUCTURES.</li> </ul>	<ol> <li>ALL ANCHOR DESIGNS ARE E WHERE SEVERAL COMPONENT</li> </ol>
5. PERMANENT EQUIPMENT AND NONSTRUCTURAL COMPONENTS SHALL HAVE SPECIAL SEISMIC CERTIFICATION IN ACCORDANCE WIT 13.2.2 OF THE ASCE 7, SECTION 13.2.2.	STARTING PRODUCTION WORK
6. ALL WALL MOUNTED PIPES CONDUITS, DUCTS, LIGHTS, EQUIPMENT AS WELL AS ALL WALL MOUNTED CABINETRY, ETC., SHALL ANCHORED IN CONFORMANCE WITH CODE REQUIREMENTS AND TYPICAL CONDITION DETAILS SHOWN ON THESE DRAWINGS.	BE SUBMITTED FOR APPROVA BE 5. ALL INSTALLATION PROCEDUR
7. ALL FLOOR MOUNTED OR FLOOR SUPPORTED PIPES, CONDUITS, SPRINKLERS, MACHINERY, TANKS, CABINETRY, ETC., SHALL BE IN CONFORMANCE WITH CODE REQUIREMENTS AND TYPICAL CONDITION DETAILS SHOWN ON THESE DRAWINGS.	6. LOCATE EXISTING REINFORCIN
8. GROUPS OF PIPES, CONDUITS, OR DUCTS MAY BE COMBINED AND SEISMICALLY BRACED WITH A COMMON SUPPORTING ASSEM PROVIDED THAT THE ENTIRE ASSEMBLY AND ALL DETAILS CONFORM TO CODE REQUIREMENTS.	IBLY, LOCATE ALL EXISTING REINFC CONFLICTS ARE NOTED, MOVI 7. USE SMALLEST PRACTICAL DI
9. TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO BE CONSIDERED AS LONGITUDINAL BRACING FOR THE PIPE SECTION PERPENDICULAR TO IT, PROVIDED THAT BRACING IS WITHIN 24" OF ELBOW OR TEE OF SIMILAR SIZE.	PRIOR TO DRILLING MAIN AN 8. ALL EPOXY ADHESIVES USED
10. ALL SUSPENDED PIPES SHALL HAVE HANGERS SIZED AND SPACED NO FURTHER THAN TABULATED BELOW. VERIFY EXISTING C AND FURNISH AS REQUIRED.	9. MILL CERTIFICATES AND YIELD
PIPE DIAMETERMAXIMUM SPACINGMINIMUM HANGER DIAMETER1 1/2" OR LESS7'-0"3/8"2"10'-0"1/2"4"10'-0"5/8"	THREADED RODS, EPOXIED R FOR ONE SAMPLE OF EACH 10. OWNER'S TESTING AGENCY S
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	FOR TESTING.
11. THE LOCATIONS OF SEISMIC BRACES FOR EACH PIPE SHALL BE SHOWN ON PLANS AND SHALL NOT EXCEED THE FOLLOWING           DUCTILE PIPES         NONDUCTILE/FUEL         PIPES	SPACING:ENGINEER OF RECORD.12.REACTIONS FROM TEST LOAD
TRANSVERSE DIRECTION40 FEET20 FEETLONGITUDINAL DIRECTION80 FEET40 FEETImage: transmission of the sector of the	AND PROVIDED THAT THE AN 13. WHERE ANY TEST OR INSPEC
PROVIDE TRANSVERSE BRACE AT LAST VERTICAL SUPPORT "d" IS LESS THAN 24"	REFERENCED CODES THEN C 14. POST-INSTALLED ADHESIVE A
	POST-INSTALLED ANCHOR TESTING 1. ALL EPOXIED THREADED ROD
MAXIMUM SPACING FOR TRANSVERSE BRACES MAXIMUM SPACING FOR LONGITUDINAL	TESTING AND INSPECTION AG MINIMUM THE FOLLOWING SH
BRACES 12. VERIFY FROM SMACNA OR OTHER CODE ACCEPTED PUBLICATIONS THE CAPACITIES OF: CLAMPS, "U" BOLTS, "J" BOLTS, PIPES	A. 10 DAYS PRIOR TO THE EPOXIED ANCHORS INCL INSTALLATION, CURING T
UNISTRUT AND OTHER DEVICES USED AT BRACES.	B. AS PART OF PRE-QUAL OF EACH SIZE, TYPE AN
LIGHT GAGE STEEL FRAMING 1. STUD SIZES, GAGES, SPACING, CONNECTIONS AND DETAILS ARE MINIMUM REQUIREMENTS AND ARE BASED ON STEEL STUD	PROPOSED PRODUCTS, " WORK.
<ol> <li>MANUFACTURERS ASSOCIATION (SSMA) SECTION PROPERTIES.</li> <li>MEMBERS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, AISI, "SPEC</li> </ol>	C. EACH OF THE TEST SAM ANCHORS HOLDING TABU FOR ANCHORS IN CMU
FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS." 3. FOR 18 GAGE AND LIGHTER FRAMING, CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS. FOR 16	
HEAVIER FRAMING, CONNECTIONS SHALL BE MADE BY BOLTING, BY SELF—DRILLING SELF—TAPPING SCREWS OR BY WELDING. A GAGE AND LIGHTER FRAMING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. ALL 16 GAGE AND HEAVIER FRAMING SHA MINIMUM YIELD STRENGTH OF 50 KSI.	LL HAVE A E. TESTS ARE TO BE MADE 10% OF ALL ANCHORS
<ul> <li>4. DO NOT WELD 18 GAGE AND LIGHTER FRAMING, UNLESS SPECIFICALLY CALLED FOR IN PLANS AND DETAILS.</li> <li>5. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDING AS INDICATED OR IF NOT INDICATED, AS</li> </ul>	THAN 24 HOURS AND N WHERE CONCRETE TEMP THAN 120 HOURS AFTE
RECOMMENDED BY THE MANUFACTURER FOR THE DESIGN LOADS AND APPLICATIONS INDICATED. SCREWS SHALL BE BY BUILDE APPROVED EQUAL. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF AWS D1.3 METAL.	
6. METAL FRAMING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. JOIST AND S BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. JOIST BRIDGING SHALL BE INSTALLED AT 8'-0" O.	C. MAXIMUM H. RE-TEST 100% OF ALL
AND STUD WALL BRIDGING SHALL BE INSTALLED AT 4'-O" O.C. MAXIMUM, UNO BY LIGHT GAGE DESIGNER. APPLIED FINISH M. SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING, UNLESS NOTED OTHERWISE.	
<ol> <li>ALL AXIALLY LOADED STUDS SHALL HAVE FULL FLANGE BEARING AGAINST UPPER AND LOWER TRACK WEB PRIOR TO ATTACHN TRACK. SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.</li> <li>IF TOP OF INTERIOR WALL IS LATERALLY UNBRACED, THEN BRACING SHALL BE PROVIDED. TOP OF WALL BRACING SHALL MATH</li> </ol>	1. UNLESS NOTED OTHERWISE, CH DEPTH CONFORMING TO ICC REPORT
AND GAGE OF WALL STUDS AND SHALL BE LOCATED FROM TOP OF WALL TO STRUCTURE ABOVE AT 48" O.C. (MAX.) U.N.O. DRAWINGS.	ON THREADED RODS CONFORMIN THREADED RODS, NUTS, WAS
<ol> <li>JOISTS SHALL BE PLACED DIRECTLY OVER BEARING STUDS AND JOIST WEB STIFFENERS SHALL BE PROVIDED AT REACTION PO AS OTHERWISE SHOWN ON THE DRAWINGS.</li> <li>PROVIDE FULL DEPTH BLOCKING BETWEEN JOISTS AT SUPPORTS WHERE JOISTS ARE NOT OTHERWISE RESTRAINED FROM ROTA</li> </ol>	3. THESE TEST LOADS ARE FOR
10. PROVIDE FULL DEPTH BLOCKING BETWEEN JOISTS AT SUPPORTS WHERE JOISTS ARE NOT OTHERWISE RESTRAINED FROM ROTA 11. REFER TO ARCH. FOR INTERIOR STUD OR FURRING WALLS NOT SHOWN ON THE STRUCTURAL PLANS OR STRUCTURAL DETAILS	THREADED ROD EMBED M
12. UNLESS OTHERWISE NOTED, ALL METAL STUDS SHALL MEET OR EXCEED SSMA XXXS162-XX OR DIETRICH CSJ SERIES MINIMU SIZES, THICKNESS, AND GROSS SECTION PROPERTIES WITH 1 5/8" FLANGE WIDTH.	3/8 4
<ul><li>13. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF LIGHT GAGE FRAMING.</li><li>14. CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE DESIGN TEAM FOR REVIEW AND APPROVAL:</li></ul>	1/2     5       5/8     6       3/4     7
A. SUBMIT COMPLETE STRUCTURAL CALCULATIONS FOR THE STEEL FRAMING SYSTEM. CALCULATIONS SHALL COVER ALI JAMB STUDS, TRACKS, BRACING, ATTACHMENT OF LIGHT GAGE FRAMING TO LIGHT GAGE FRAMING, GRAVITY DESIGN, DESIGN, HEADER DESIGN, AND LIGHT GAGE FRAMING TO CONCRETE, STRUCTURAL STEEL OR MASONRY.	_ STUDS, 7/8 8
B. SUBMIT DETAILED SHOP DRAWINGS FOR STEEL FRAMING SHOWING THE TYPE AND SPACING OF ALL MEMBERS. ALL ATTACHMENTS SHALL BE CLEARLY DETAILED ON THE DRAWINGS, INDICATING SUPPLEMENTAL STRAPPING, BRACING, (	1. UNLESS NOTED OTHERWISE, ESR-1917, "SIMPSON STRON STRONG-BOLT 2" CONFORMI
C. SUBMIT CERTIFICATION OF MATERIALS FROM THE MANUFACTURER TO SHOW COMPLIANCE WITH THE CONTRACT DOCU	2 ALL EXPANSION BOLTS SHAL
D. ALL SUBMITTALS SHALL BEAR THE SEAL OF A LICENSED ENGINEER WITHIN THE PROJECT STATE.	<ol> <li>EXPANSION BOLTS IN CONCR</li> <li>THESE TEST LOADS ARE FOR</li> </ol>
E. CONNECTIONS SHOWN IN DETAILS ARE GENERIC AND DO NOT NECESSARILY MATCH THE CONNECTIONS DESIGNED E CONTRACTOR'S LIGHT GAGE STEEL ENGINEER.	IY THE EXPANSION BOLT EMBED N DIAMETER DEPTH
<u>DEFERRED_SUBMITTAL_ITEMS</u> THE ITEMS LISTED BELOW ARE DEFERRED SUBMITTAL ITEMS, WHERE THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL	(IN) (IN) 3/8 2 1/2 3 1/2
OF SHOP DRAWINGS AND STRUCTURAL CALCULATIONS, STAMPED AND SEALED, BY A LICENSED ENGINEER: 1. STEEL STAIR AND PLATFORM FRAMING	5/8     4       3/4     5     1/2
2. BRACING AND ANCHORAGE OF EQUIPMENT ATTACHED TO THE STRUCTURE WEIGHING MORE THAN 200LB NOT SPECIFICALLY SHOWN ON THESE DRAWINGS	EPOXIED THREADED RODS IN FACE 1. UNLESS NOTED OTHERWISE, CONFORMING TO FSR 1067
<ol> <li>MEP SYSTEMS PIPING BRACING</li> <li>BLAST RESISTANT DOORS AND WINDOWS AND THEIR CONNECTIONS TO STRUCTURE</li> </ol>	CONFORMING TO ESR-1967 CONFORMING TO ASTM A307. 2 EPOXIED THREADED RODS IN
I. DEAST RESISTANT DOORS AND WINDOWS AND ITER CONNECTIONS TO STRUCTURE	<ol> <li>EPOXIED THREADED RODS IN</li> <li>THESE TEST LOADS ARE FOR</li> </ol>
	THREADED ROD EMBED MI DIAMETER DEPTH D
	(IN) (IN) 3/8 3 1/2 1/2 4 1/2
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
ADDENDUM 1 08-09-24	CONSULTANT
	MOON
	TREE
	1808 DEEP CREEK RD. OKC, O
	918.527.7166 INFO@MOONTREE

### STALLED ANCHORS

ANCHORS SHALL BE AS NOTED ON THE DRAWINGS AND SPECIFICATIONS AND SHALL BE FURNISHED AND INSTALLED IN FULL INFORMANCE OF THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND AS PER ICC/ER/ESR REPORTS COVERING SPECIFIC PRODUCTS. ST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM COR PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. ANCHOR DESIGNS ARE BASED ON HILTI AND SIMPSON STRONG-TIE PRODUCTS AS BASIS OF DESIGN FOR LOADING AND TYPE. HERE SEVERAL COMPONENTS FORM ONE COMPLETE INSTALLED ANCHOR, SUCH AS AN EPOXIED THREADED ROD AND NUT, EACH AND

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ERY COMPONENT USED IN EVERY SUCH ASSEMBLY SHALL BE FROM THE SAME MANUFACTURER AND SHALL BE THE SAME AS SCRIBED IN THE CURRENT ICC/ER/ESR REPORT FOR THE ASSEMBLY AND SHALL BE THE SAME AS THE TESTED SAMPLES PRIOR TO TARTING PRODUCTION WORK. ODUCTS BY MANUFACTURERS OTHER THAN SPECIFIED THAT MEET ALL REQUIREMENTS AND HAVE CURRENT ICC/ER/ESR REPORTS MAY

SUBMITTED FOR APPROVAL. INSTALLATION PROCEDURES INCLUDING: DRILLS, HOLE DIAMETERS, EMBEDMENT LENGTHS, ALL EPOXY PRODUCTS, MINIMUM EMPERATURE, HOLE PREPARATION, TOOLS, AND METHODS SHALL FOLLOW THE MANUFACTURER'S WRITTEN PROCEDURES.

DCATE EXISTING REINFORCING IN CONCRETE, CMU, OR BRICK BY USES OF NONDESTRUCTIVE INSPECTION DEVICES TO ACCURATELY CATE ALL EXISTING REINFORCING AND GROUTED CELLS AND OTHER EMBEDDED ELEMENTS PRIOR TO DRILLING. WHERE POTENTIAL ONFLICTS ARE NOTED, MOVE ANCHOR LOCATIONS AS DIRECTED BY ENGINEER TO CLEAR CONFLICTING ELEMENTS. SMALLEST PRACTICAL DIAMETER DRILL FOR A PILOT HOLE TO LOCATE EXISTING REINFORCING OR OTHER EMBEDDED ELEMENTS RIOR TO DRILLING MAIN ANCHOR HOLES OR MORE HOLES AT OBSTRUCTIONS. EPOXY ADHESIVES USED MUST HAVE CLEARLY DELINEATED EXPIRATION DATES FOR ALL PRODUCTS OR COMPONENTS. NO EPOXY

RODUCT SHALL BE USED PAST ITS PRINTED EXPIRATION DATE. \_ CERTIFICATES AND YIELD TEST RESULTS SHALL BE PROVIDED BY THE CONTRACTOR FOR EACH LOT OF EACH SIZE OF EPOXIED HREADED RODS, EPOXIED REINFORCING BARS AND EXPANSION BOLTS PRIOR TO THE PRE-QUALIFYING TESTS DESCRIBED BELOW AND R ONE SAMPLE OF EACH SIZE AND TYPE OF PRODUCTION ANCHORS PER 200 APPLICATIONS.

WNER'S TESTING AGENCY SHALL DETERMINE APPROPRIATE TESTING PROCEDURES AND SELECT SEQUENCES AND LOCATIONS OF ANCHORS R TESTING. PRODUCTS, PROCEDURES AND INSTALLATIONS SHALL BE INSPECTED BY THE CONTRACTOR'S 3RD PARTY SPECIAL INSPECTOR OR NGINEER OF RECORD.

EACTIONS FROM TEST LOAD MAY BE APPLIED NO CLOSER THAN 6 ANCHOR DIAMETERS FROM ANY SIDE OF THE ANCHOR BEING TESTED ND PROVIDED THAT THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE TESTING APPARATUS. HERE ANY TEST OR INSPECTION INDICATES WORK NOT IN CONFORMANCE WITH THESE REQUIREMENTS, CONTRACT DOCUMENTS OR EFERENCED CODES THEN CONTRACTOR SHALL CORRECT ALL SUCH WORK AS DIRECTED BY COR AND AT NO COST TO THE OWNER. OST-INSTALLED ADHESIVE ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTION BY A QUALIFIED 3RD PARTY SPECIAL INSPECTOR.

\_ EPOXIED THREADED RODS, EPOXIED REINFORCING BARS, AND EXPANSION BOLTS SHALL BE LOAD TESTED BY A 3RD PARTY ESTING AND INSPECTION AGENCY TO ESTABLISH CONFORMANCE OF INSTALLED ANCHORS TO THE PROJECT REQUIREMENTS. AS A INIMUM THE FOLLOWING SHALL BE PERFORMED:

10 DAYS PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL SUBMIT CURRENT PRODUCT LITERATURE FOR ALL EPOXIED ANCHORS INCLUDING CURRENT ICC/ER/ESR REPORTS AND DESCRIPTIVE ACTUAL PRODUCT LITERATURE COVERING INSTALLATION, CURING TIMES ETC. FOR OWNER'S REVIEW.

AS PART OF PRE-QUALIFYING ANCHORS, AND PRIOR TO STARTING PRODUCTION WORK, CONTRACTOR SHALL INSTALL 10 SAMPLES OF EACH SIZE, TYPE AND ARRANGEMENT OF ANCHORS SHOWN ON DRAWINGS, AT LOCATIONS SELECTED BY THE OWNER, USING PROPOSED PRODUCTS, TOOLS, METHODS, CURING TIME, AND PROCEDURES THAT CONTRACTOR INTENDS TO USE FOR PRODUCTION WORK

EACH OF THE TEST SAMPLES WILL BE TESTED BY THE TESTING AND INSPECTION AGENCY FOR TABULATED TEST LOADS, WITH ANCHORS HOLDING TABULATED TEST LOADS FOR DURATIONS NOTED IN ICC/ER/ESR REPORTS BUT NOT LESS THAN 60 SECONDS FOR ANCHORS IN CMU AND CONCRETE AND 5 MINUTES FOR ANCHORS IN BRICK. IF ALL TESTS ARE SATISFACTORY AND NO PERMANENT DEFORMATIONS, FAILURES, YIELDING OR LOSS OF LOAD CARRYING

CAPACITIES ARE NOTED, THEN PRODUCTION WORK MAY PROCEED USING THE SAME PROCEDURES, PRODUCTS, METHODS AND EQUIPMENT AS TESTED.

TESTS ARE TO BE MADE ON THE FIRST 5 ANCHORS OF EACH SIZE FOR EACH 8-HOUR PRODUCTION SHIFT, PLUS AN ADDITIONAL 10% OF ALL ANCHORS MADE DURING THE SHIFT. ADHESIVE AND EXPANSION ANCHOR LOAD TESTS SHALL BE MADE NO SOONER THAN 24 HOURS AND NO LATER THAN 72 HOURS AFTER ANCHORS ARE INSTALLED. HOWEVER, ADHESIVE ANCHORS INSTALLED WHERE CONCRETE TEMPERATURES ARE LESS THAN 65 DEGREES SHALL BE TESTED NO SOONER THAN 72 HOURS AND NO LATER THAN 120 HOURS AFTER ANCHORS ARE INSTALLED.

IF ALL TEST SAMPLES DO NOT PASS TESTS SATISFACTORILY THEN ALL ELEMENTS OF ANY TYPE AND SIZE INSTALLED AFTER THE LAST COMPLETELY SUCCESSFUL TEST SHALL BE TESTED AGAIN. REPLACE ALL ANCHORS THAT DO NOT PASS TESTS AS DIRECTED BY OWNER.

RE-TEST 100% OF ALL CORRECTED OR ADDITIONAL ANCHORS.

### THREADED RODS IN CONCRETE

INLESS NOTED OTHERWISE, ALL REFERENCES TO EPOXIED THREADED RODS IN CONCRETE SHALL BE "HILTI HIT-RE 500-SD" CONFORMING TO ICC REPORT ESR-2322 OR "SIMPSON STRONG-TIE SET-XP" CONFORMING TO ICC REPORT ESR-2508, WITH HREADED RODS CONFORMING TO ASTM A193, GRADE B7, FY=105 KSI AND NUTS CONFORMING TO ASTM A563 GRADE DH. ALL HREADED RODS, NUTS, WASHERS, ETC. SHALL BE GALVANIZED PER ASTM A153.

POXIED THREADED RODS IN CONCRETE SHALL BE TESTED FOR THE FOLLOWING LOADS:

HESE TEST LOADS ARE FOR 4,000 PSI NORMAL WEIGHT CONCRETE, MIN. EDGE DISTANCE AND MIN. CENTER TO CENTER DISTANCE.

ADED ROD METER (IN)	EMBED DEPTH (IN)	MIN. EDGE DISTANCE (IN)	MIN. CENTER TO CENTER DISTANCE (IN)	TENSION TEST LOAD (LBS)
3/8	4	6	8	3,400
1/2	5	7 1/2	10	4,500
5/8	6	9	12	5,800
3/4	7	10 1/2	14	8,000
7/8	8	12	16	9,800

INLESS NOTED OTHERWISE, EXPANSION BOLTS IN CONCRETE SHALL BE "HILTI KWIK BOLT TZ" CONFORMING TO ICC SR-1917, "SIMPSON STRONG-TIE STRONG-BOLT" CONFORMING TO ICC ESR-1771, OR "SIMPSON STRONG-TIE TRONG-BOLT 2" CONFORMING TO ICC ESR-3037.

\_ EXPANSION BOLTS SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.

(PANSION BOLTS IN CONCRETE SHALL BE TESTED FOR THE FOLLOWING LOADS: HESE TEST LOADS ARE FOR 4,000 PSI NORMAL WEIGHT CONCRETE.

	,		
EMBED DEPTH (IN)	MIN. EDGE DISTANCE (IN)	MIN. CENTER TO CENTER DISTANCE (IN)	TENSION TEST LOAD (LBS)
2	6	3	1,300
3 1/2	4	4	2,300
4	6 1/2	6 1/2	3,300
	DEPTH	DEPTH (IN)DISTANCE (IN)2631/24	DEPTH (IN)DISTANCE (IN)CENTER DISTANCE (IN)26331/24

5/0	<b>т</b>		0 1/2	0,000	
3/4	5 1/2	8	8	4,500	
D THREADED F	RODS IN FAC	E OF CMU WA	LLS		

INLESS NOTED OTHERWISE, ALL REFERENCES TO EPOXIED THREADED RODS IN CMU SHALL BE "HILTI HIT HY-150 MAX" CONFORMING TO ESR-1967 OR "SIMPSON STRONG-TIE SET" CONFORMING TO ICC ESR-1772, WITH THREADED RODS CONFORMING TO ASTM A307.

POXIED THREADED RODS IN CMU SHALL BE TESTED FOR THE FOLLOWING LOADS: HESE TEST LOADS ARE FOR GROUT FILLED CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 BLOCKS.

ADED ROD AMETER (IN)	EMBED DEPTH (IN)		MIN. CENTER TO CENTER DISTANCE (IN)	TENSION TEST LOAD (LBS)
3/8	3 1/2	20	16	2,000
1/2	4 1/2	20	16	2,600
5/8	5	20	16	3,200
3/4	6 3/4	20	16	4,800

SPEC
PROVIDE SPECIAL INSPECTIONS PER SECTION 1705 OF TH
THE CONTRACTOR SHALL EMPLOY OF QUALIFIED PERSONN SHEET (SEE TABLES TO THE RIGHT OF THIS NOTE SECTIC RE-INSPECTIONS AND APPROVALS TO THE ENGINEER AND
THE APPROVED INDEPENDENT TESTING AGENCY'S INDIVIDU, PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQU
THE SPECIAL INSPECTOR SHALL BRING NON-CONFORMING THE REPORTS. ANY UNRESOLVED ISSUE ABOUT ITEMS TO
THE SPECIAL INSPECTOR SHALL FURNISH REPORTS, TESTS
THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH TH
THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE S SCHEDULE AND AS NOTED ON THE BUILDING DEPARTMENT

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PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT. ADDITIONAL SPECIAL INSPECTIONS PER THE IBC 2018 MAY BE REQUIRED AND SHALL BE OUTLINED AND PRESENTED TO THE COR PRIOR TO START OF WORK FOR ACCEPTANCE. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE

CONTRACT DOCUMENTS OR SECTION 1705 OF THE 2018 IBC.

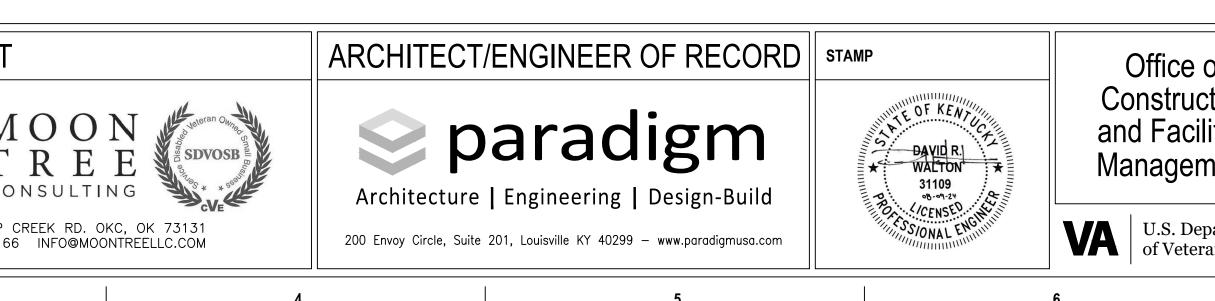
9. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF ALL INSPECTIONS.

## REQUIRED SPECIAL INSPECTIONS AND TESTS OF

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	_	Х	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
<ol> <li>INSPECTION OF REINFORCING BAR WELDING:</li> <li>A. WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706.</li> <li>B. SINGLE-PASS FILLET WELDS, MAX. 5/16".</li> </ol>		X X	AWS D1.4 ACI 318: 26.6.4	_
C. ALL OTHER WELDS.	X		ACI 710, 17.0.0	
5. INSPECTION OF ANCHORS CAST IN CONCRETE.	_	Х	ACI 318: 17.8.2	
<ul> <li>INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED</li> <li>CONCRETE.</li> <li>A. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSION.</li> </ul>	Х	_	ACI 318: 17.8.2.4	_
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	_	Х	ACI 318: 17.8.2	
5. VERIFYING USE OF REQUIRED DESIGN MIX.	_	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND NR CONTENT TESTS, AND DETERMINE THE TEMPERATURE CONCRETE.	Х	_	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT OR PROPER APPLICATION TECHNIQUES.	Х	_	ACI 318: 26.5	1908.6, 1908.7 1908.8
. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE	_	Х	ACI 318: 26.5.3-26.5.5	1908.9
. INSPECTION OF PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS.	X X		ACI 318: 26.10	_
0. INSPECTION OF ERECTION OF PRECAST CONCRETE MEMBERS.	_	Х	ACI 318: Ch. 26.9	_
1. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO TRESSING TENDONS IN POST-TENSIONED CONCRETE ND PRIOR TO REMOVAL OF SHORES AND FORMS ROM BEAMS AND STRUCTURAL SLABS.	_	Х	ACI 318: 26.11.2	_
2. INSPECTION OF FORMWORK FOR SHAPE, LOCATION, ND DIMENSIONS OF THE CONCRETE MEMBER BEING ORMED.	_	Х	ACI 318: 26.11.1.2(b)	_

TABLES 1/05.6					
VERIFICATION AND INSPECTION TASK	Continuous during task listed	PERIODICALLY DURING TASK LISTED			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	_	X			
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	_	X			
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL.	_	X			
4. VERIFY USE OF PROPER MATERIAL, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	_			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	_	Х			

SPECIAL REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION IBC 2018 SECTION 1705.4 AND TMS 602 / ACI 530.1 / ASCE 6.



### ECIAL INSPECTION NOTES

### THE 2018 IBC.

NNEL TO PERFORM, AT A MINIMUM, THE SPECIAL INSPECTIONS INDICATED IN THE TABLES THIS ION), AND PROVIDE WRITTEN RECORD OF THE INSPECTIONS AND RESULTS, INCLUDING ANY

DUAL SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR INSPECTION OF THE QUIRING SPECIAL INSPECTION.

NG ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND NOTE ALL SUCH ITEMS IN ) BE COVERED BY THE WORK SHALL BE BROUGHT TO THE COR'S ATTENTION IMMEDIATELY. STS, AND INSPECTIONS DIRECTLY TO THE COR.

REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE APPROVED PLANS AND SPECIFICATIONS. SPECIAL INSPECTION AGENCY REGARDING INDIVIDUAL INSPECTIONS FOR ITEMS LISTED ON THE DULE AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE

ATION AND INSPECTION OF TABLES 1705.6	F SOILS IBC 2018,
Continuous during task listed	PERIODICALLY DURING TASK

### SPECIAL REQUIRED VERIFICATION AND INSPE STEEL CONSTRUCTION IBC 2018 SECTION 1705.2.1 AND AISC 360-10 CHAI

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VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
A) IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	_	Х	AISC APPLI STANI
<ul> <li>B) MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.</li> </ul>	_	Х	
2. INSPECTION OF HIGH STRENGTH BOLTING:		1	
A) SNUG-TIGHT JOINTS.	_	Х	
B) PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHOD OF INSTALLATION.	_	_	AIS
C) PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCH MARKING,OR CALIBRATED WRENCH METHOD OF INSTALLATION.	_	_	
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK:			·
A) FOR STRUCTURAL STEEL, IDENTIFICATION MARKING TO CONFORM TO AISC 360.	_	Х	AIS QA,
B) FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	_	Х	APF MAT
C) MANUFACTURER'S CERTIFIED TEST REPORTS.	_	Х	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			ł
A) IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	_	Х	AIS ANI DOC
B) MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	_	Х	
5. INSPECTION OF WELDING:			·
A) STRUCTURAL STEEL AND COLD FORMED STEEL DECK:			
1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	Х	_	
2) SINGLE-PASS FILLET WELDS > 5/16"	Х	-	
3) SINGLE-PASS FILLET WELDS $\leq 5/16$ "	_	Х	
4) FLOOR AND ROOF DECK WELDS.	_	X	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:			
A) DETAIL SUCH AS BRACING AND STIFFENING.	_	Х	
B) MEMBER LOCATIONS.	_	Х	
	· · · · · · · · · · · · · · · · · · ·		

### SPECIAL INSPECTIONS AS REQUIRED BY SPECIFICATION

CONTINUOUS SPECIAL INSPECTIONS:

8

ADHESIVE ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH ADHESIVE MANUFA

ADDITIONAL SPECIAL INSPECTIONS AS REQUIRED BY SPECIFICATION/MANUFACTURER. ADDITIONAL INSPECTIONS AS REQUIRED BY EQUIPMENT SUPPLIER FOR ALL INSTALLED EQUIPMENT AND

A REPRESENTATIVE OF THE EQUIPMENT SUPPLIER.

4. CONSTRUCTION OF LIGHT GAGE BLAST WALLS FOR COMPONENT SIZE AND SPACING, PANEL AND FASTENE CONNECTION INSTALLATION.

	Drawing Title	Phase			Project Title	
of ction ilities	GENERAL STRUCTURAL NOTES	100% CC	DNSTRUCTION DOCUME	NTS	DESIGN REPI	_ACE BO
ment	Approved: Project Director				Location SIOUX FA	
epartment erans Affairs		Fl	JLLY SPRINKLERED		Issue Date 08-09-2024	Checked TWW
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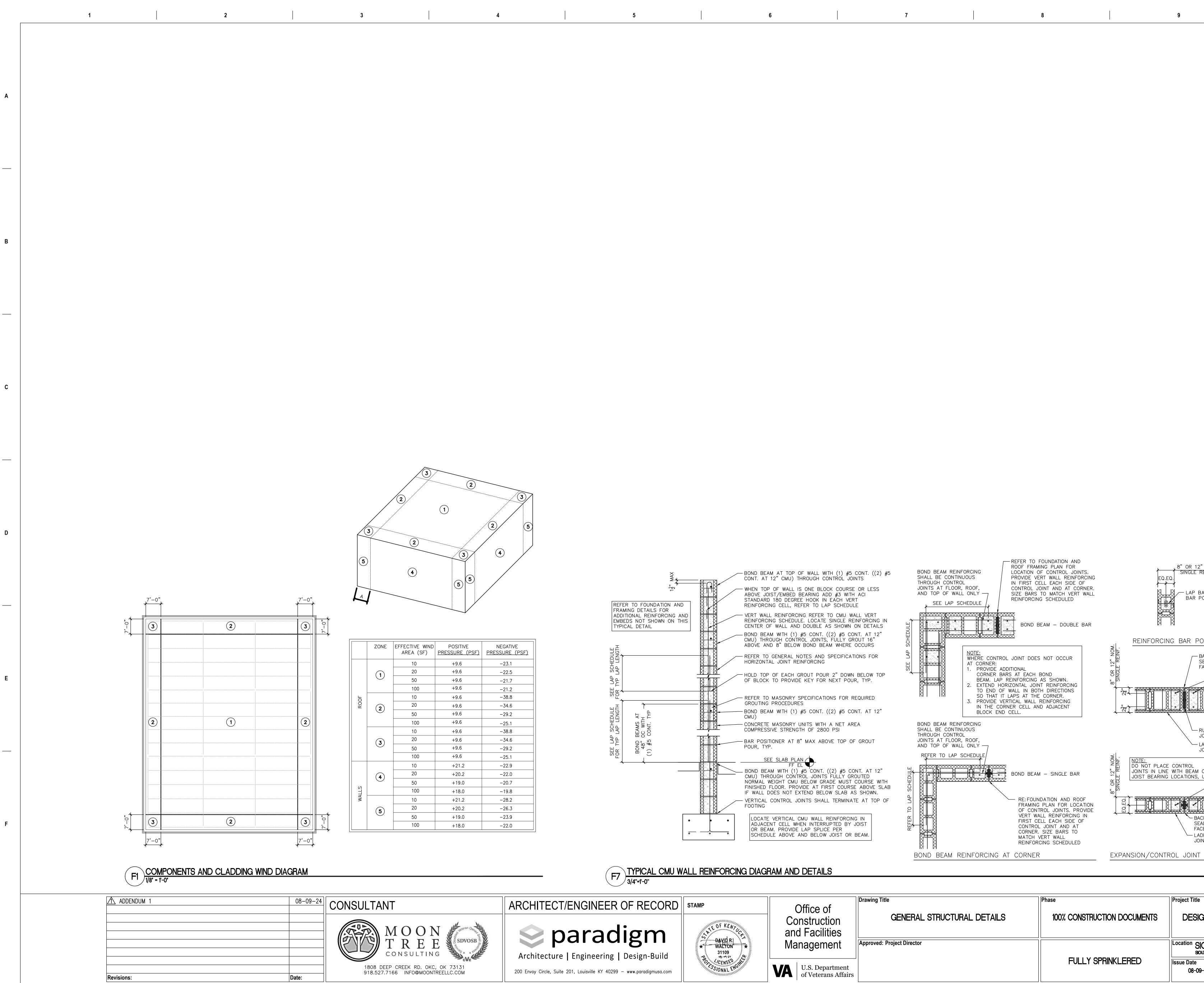
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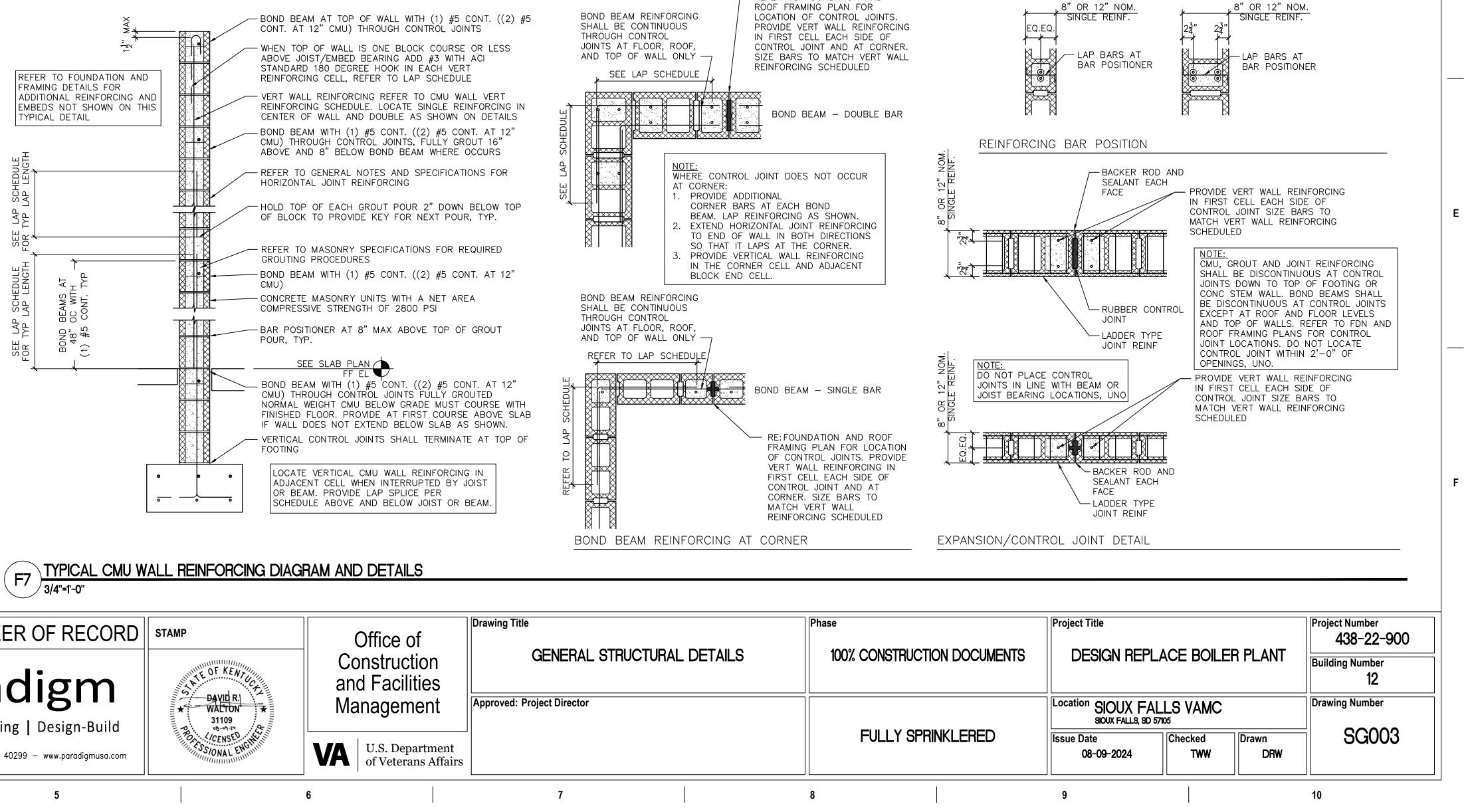
REFERENCE STANDARD	IBC REFERENCE
: 360, SECTION A3.3 AND LICABLE ASTM MATERIAL NDARDS	
_	_
SC 360, SECTION M2.5	1705.2
	1
SC 360, SECTION N8, SDI A/QC	
PPLICABLE ASTM ATERIAL STANDARDS	1703.2.2
_	
SC 360, SECTION A3.5 ND APPLICABLE AWS AS	_
OCUMENTS.	
AWS D1.4	1705.3.1
AWS D1.4	
AWS 01.4	
	1705.2
ON/MANUFACTURE	ER:
"ACTURER'S APPLICABLE ESR RE	EPORT.
ACCESSORIES NOT SPECIFICALLY	INSPECTED BY

OILEF	PLANT	Project Number 438-22-900 Building Number 12
MC		Drawing Number
d VW	Drawn DRW	SG002
		10



VA FORM 08 - 6231

EFFECTIVE WIND AREA (SF)	POSITIVE <u>PRESSURE (PSF)</u>	NEGATIVE <u>PRESSURE (PSF)</u>
10	+9.6	-23.1
20	+9.6	-22.5
50	+9.6	-21.7
100	+9.6	-21.2
10	+9.6	-38.8
20	+9.6	-34.6
50	+9.6	-29.2
100	+9.6	-25.1
10	+9.6	-38.8
20	+9.6	-34.6
50	+9.6	-29.2
100	+9.6	-25.1
10	+21.2	-22.9
20	+20.2	-22.0
50	+19.0	-20.7
100	+18.0	-19.8
10	+21.2	-28.2
20	+20.2	-26.3
50	+19.0	-23.9
100	+18.0	-22.0



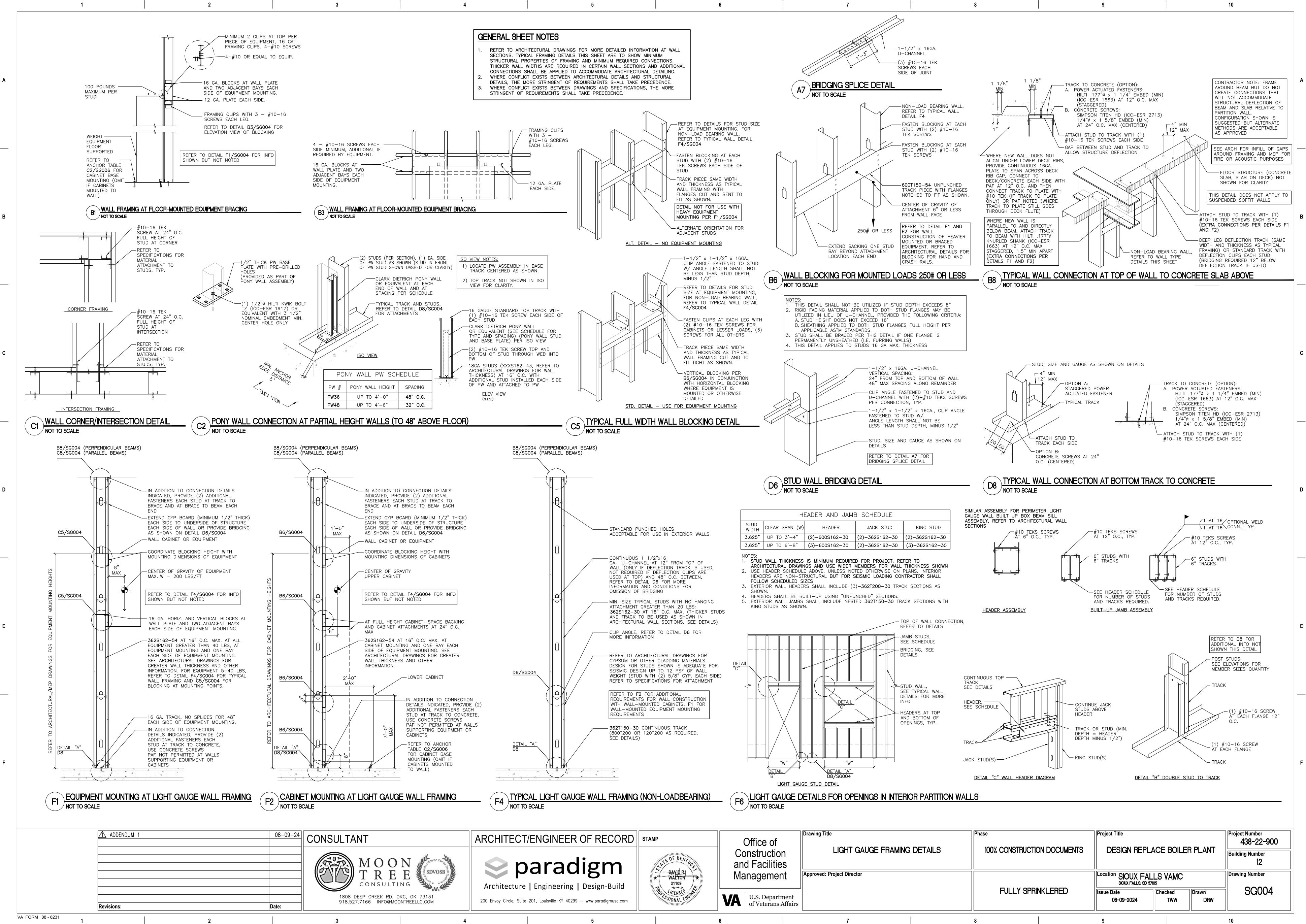


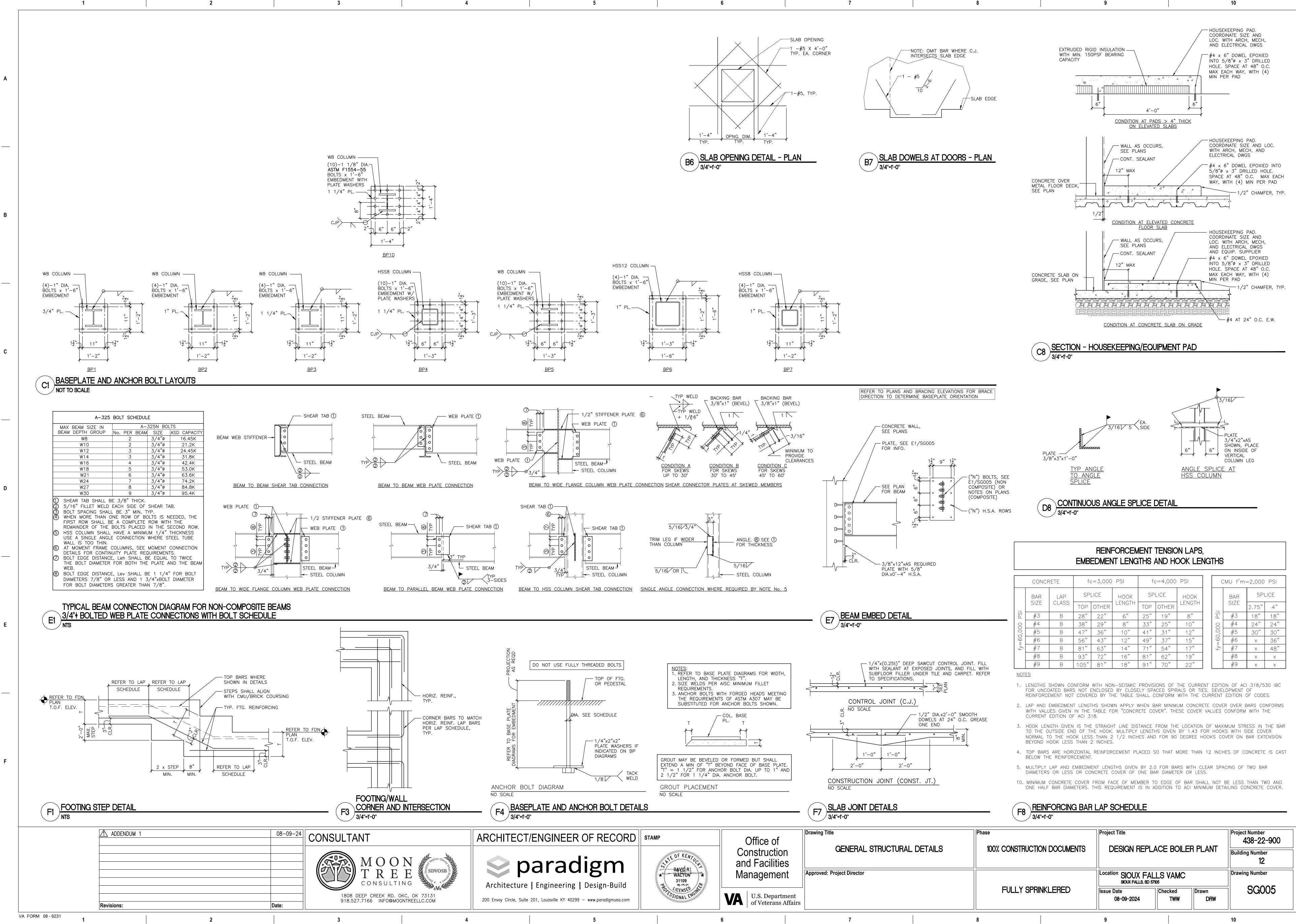
	Drawing Title	Phase	Project Title	
of otion cilities	GENERAL STRUCTURAL DETAILS	100% CONSTRUCTION DOCUMENTS	DESIGN REPLAC	)e bo
ment	Approved: Project Director		Location SIOUX FALLS SIOUX FALLS, SD 57105	
epartment erans Affairs		FULLY SPRINKLERED	Issue Date 08-09-2024	Checked TWW
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REFER TO FOUNDATION AND

ROOF FRAMING PLAN FOR

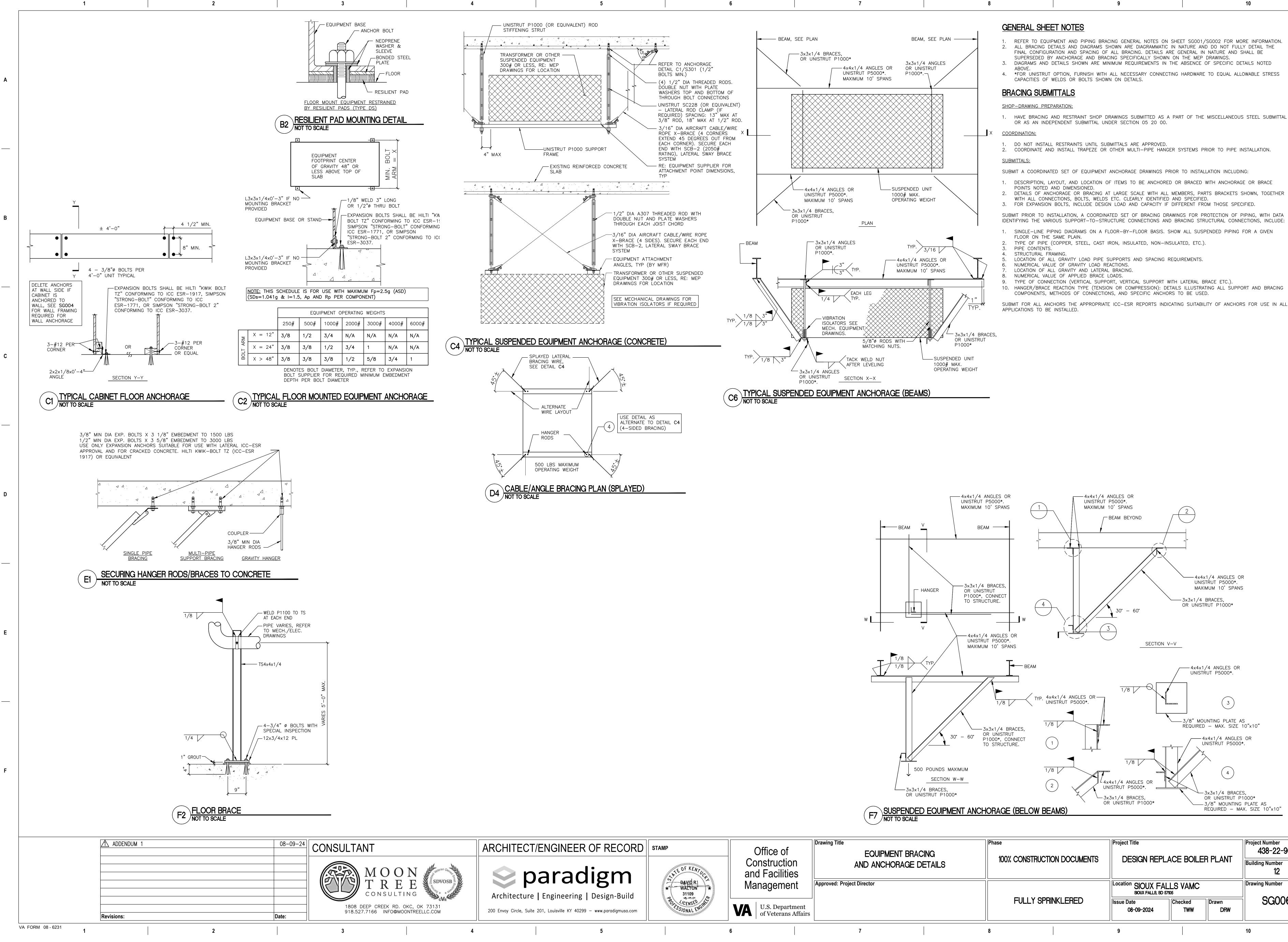
8" OR 12" NOM.





	438-22-900
OILER PLANT	Building Number 12
MC	Drawing Number
d Drawn W DRW	SG005

0	PSI	CMU f'm=2,000 PSI			
	HOOK	BAR		SPI	_ICE
2	LENGTH	_	SIZE	2.75"	4"
	8"	PSI	#3	18"	18"
	10"	00	#4	24"	24"
	12"	fy=60,000	#5	30"	30"
	15"	= 6(	#6	×	36"
	17"	fy=	#7	Х	48"
	19"		#8	Х	Х
	22"		<b>#</b> 9	×	×



1. HAVE BRACING AND RESTRAINT SHOP DRAWINGS SUBMITTED AS A PART OF THE MISCELLANEOUS STEEL SUBMITTAL

of of ction ilities	Drawing Title EQUIPMENT BRACING AND ANCHORAGE DETAILS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title DESIGN REPLAC	E BO
ment	Approved: Project Director		Location SIOUX FALLS SIOUX FALLS, SD 57105	5 VAM
epartment erans Affairs		FULLY SPRINKLERED	Issue Date 08-09-2024	hecked TWW
I				1

- 4x4x1/4 ANGLES OR UNISTRUT P5000*. MAXIMUM 10' SPANS 3x1/4 BRACES, UNISTRUT P1000*	
-4x4x1/4 ANGLES OR UNISTRUT P5000*.	
(3) 8" MOUNTING PLATE AS QUIRED – MAX. SIZE 1	0"x10"
4x4x1/4 ANGLES UNISTRUT P5000*	OR
3x3x1/4 BRACES OR UNISTRUT P1 3/8" MOUNTING REQUIRED – MAX	PLATE AS
	Project Number
OILER PLANT	438-22-900 Building Number 12
MC	Drawing Number
d Drawn W DRW	SG006
	10

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MARK	SIZE (W×L×T)	REINFORCING (EACH WAY)	NOTES
F1	4'-0"x4'-0"x2'-0"	(4)-#7 BOTTOM	1,2
F2	5'-0"x5'-0"x2'-0"	(5)-#7 BOTTOM	1,2
F3	6'-0"x6'-0"x2'-0"	(6)-#7 BOTTOM	1,2
F4	7'-0"x7'-0"x2'-0"	(8)-#7 T&B	1,2,3
F5	8'-0"x8'-0"x2'-0"	(8)-#7 T&B	1,2,3
F6	9'-0"x9'-0"x2'-0"	(9)-#8 T&B	1,2,3
F7	10'-0"x10'-0"x2'-0"	(10)-#8 T&B	1,2,3
F8	8'-0"x41'-0"x3'-0"	#8 T&B E.W.	1,2,3,4
F9	13'-0"x27'-0"x3'-0"	#8 T&B E.W.	1,2,3,4
2. SEE DE 3. T&B IN 4. CENTEF	ANS AND DETAILS FOR TAILS FOR CONFIGURATION IDICATES TOP AND BOTTO FOOTING BETWEEN TWO AS SHOWN ON PLAN. R	ON OF REINFORCIN OM REINFORCING M O COLUMNS IN BR/	IG. /ATS. ACED

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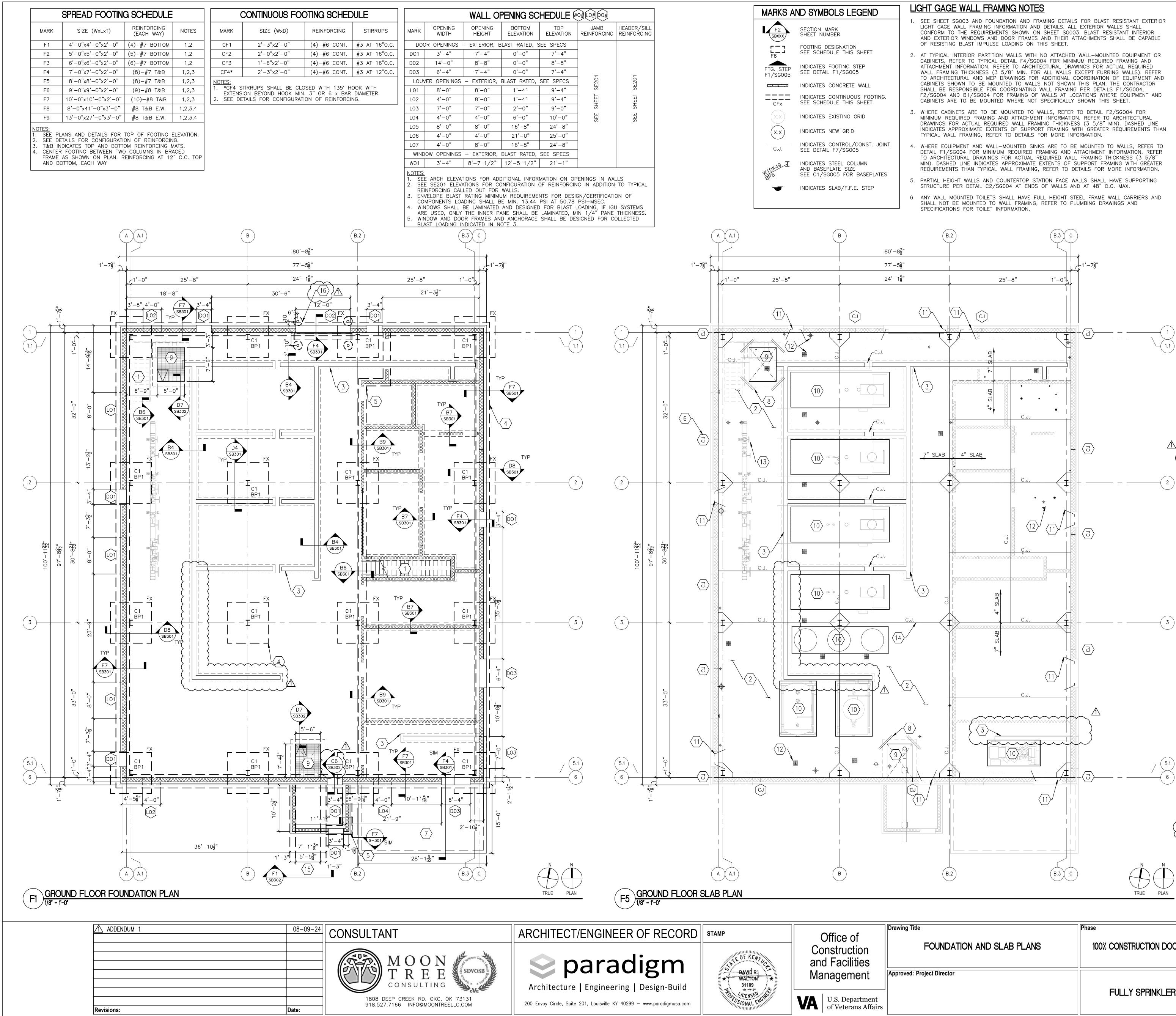
VA FORM 08 - 6231

C	CONTINUOUS FOOTING SCHEDULE					
MARK	SIZE (WxD)	REINFORCING	STIRRUPS			
CF1	2'-3"x2'-0"	(4)-#6 CONT.	#3 AT 16"O.C.			
CF2	2'-0"x2'-0"	(4)-#6 CONT.	#3 AT 16"O.C.			
CF3	1'-6"x2'-0"	(4)-#6 CONT.	#3 AT 16"O.C.			
CF4*	2'-3"x2'-0"	(4)-#6 CONT.	#3 AT 12"O.C.			
EXTENS	TIRRUPS SHALL BE CLC ION BEYOND HOOK MIN TAILS FOR CONFIGURATI	. 3" OR 6 x BAR	DIAMETER.			

3

4

5



2



EGEND       Light CACE Wall FRAMING NOTES       Central radius       Centradius       Central radiu       Cent		7		8		9	
LUCHT GAGE WALL FRAMING INFORMATION AND DETALLS, ALL EXTERIOR WALLS SHALL CONFORM TO THE REQUIREMENTS SHOW ON SHEET SGOSS, BLAST RESISTANT INTERIOR AND EXTERIOR WINDOWS AND DOOR FRAMES AND THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING ELADADING ON THIS SHEET. 2. AT TYPICAL INTERIOR PARTITION WALLS WITH NO ATTACHED WALL-MOUNTED EDUIMETD OR CABINESS REFET TO APPOINTING THE FEET TO ARCHITECTURAL DRAWINGS FOR ACTIVAL PRESISTING ELECTRA TO PUBLICATION OF VENE SHOWN TO OUTSIDE OF BUILDING GREET TO ARCHITECTURAL, AND MEP DRAWINGS FOR ADDITIONAL COORDINATION OF COLIFACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALLS FLAMING PER DETAIN OF FOULIPMENT AND CABINETS SHOWN TO BE MOUNTED TO WALLS NOT SHOWN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALL SHOWN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALLS SHOWN TO DETAIL F1/SGO34, F2/SGO34 AND BY/SGO4 FOR FRAMING OF WALLS AT LOCATIONS WHERE COLIFICATION SHALL BE RESPONSIBLE FOR COORDINATING WALLS SHOWN TO DETAIL F1/SGO34, F2/SGO34 AND BY/SGO4 FOR MONTED TO WALLS, REFER TO ACHITECTURAL DRAWINGS FOR ACTIVAL REQUIRED WALLS AND ATTACHMENT INFORMATION. GRID D MINING MEEDICAPE TRAMING AND ATTACHMENT INFORMATION. CABINETS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F2/SGO34 AND HYSTOR ADDITION AND ATTACHMENT INFORMATION. GRID D MINING MEEDICAPE TRAMING AND ATTACHMENT INFORMATION. CONST. JOINT. GRID D MINING MEEDICAPE TRAMING AND ATTACHMENT INFORMATION. CONST. JOINT. BASEPLATES	EGEND	LIGHT GAGE WALL	FRAMING NOTES	<u>}</u>		GENERAL NOTES	
AND EXTERIOR WINDOWS AND DOOR FRAMES AND THEIR ATTACHMENTS SHALL BE CAPABLE SHEET S SHEET 2. AT TYPICAL INTERIOR PARTITION WALLS CADINO ON THIS SHEET. 2. AT TYPICAL INTERIOR PARTITION WALLS WITH NO ATTACHED WALL-MOUNTED EQUIPMENT OR CABINETS, REFER TO TYPICAL DETAIL F4/SGO4 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. THEFT TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8' MIN. FOR ALL WALLS EXCEPT PURRING WALLS), REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR ACTUAL REQUIRED TRAINING CABINETS SHOWN TO BE WOUNTED TO WALLS NOT SHOWN THIS SHEET. CABINETS ARE TO BE WOUNTED TO WALLS AND SHOWN THIS SHEET. CABINETS ARE TO BE WOUNTED TO WALLS, AT LOCATIONS WHERE EQUIFMENT AND CABINETS ARE TO BE WOUNTED TO WALLS, REFER TO DETAILS F1/SCO04, F2/SGO04 AND B1/SCO04 FOR FRAMING AND ATTACHMENT INFORMATION. GRID CABINETS ARE TO BE MOUNTED TO WALLS, REFER TO DETAILS F1/SCO04, F2/SGO04 AND B1/SCO04 FOR MINIMUM REQUIRED FRAMING, REFER TO DETAILS F1/SCO04, F2/SGO04 AND B1/SCO04 FOR MINIMUM REQUIRED WALL FLANING, REFER TO DETAILS F1/SCO04, F2/SGO04 FOR MINIMUM REQUIRED WALL FRAMING, REFER TO DETAILS F1/SCO04, F2/SGO04 FOR MINIMUM REQUIRED WALL FRAMING, REFER TO DETAILS F1/SCO04, F2/SGO04 FOR MINIMUM REQUIRED WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION. CONST JOINT. CONST. JOINT. D CONST. JOINT. CONST.		LIGHT GAGE WALL FRA	MING INFORMATION AND	DETAILS. ALL EXTERIOR WALLS S	SHALL		
<ul> <li>a TryPicaL intERIOR PARTITION WALLS WITH NO ATTACHED WALL-MOUNTED EQUIPMENT OR STEP 305</li> <li>a TryPicaL intERIOR PARTITION WALLS WITH NO ATTACHED WALLS EXCEPT FURING WALLS). REFER TO ARCHITECTURAL DEVAL FASCOOF FOR MINIMUM REQUIRED FRAMINGS FOR ACTUAL REQUIRED TAMINGS FOR ADDITIONAL COORDINATION OF EQUIPMENT AND GABINETS ARE TO BE MOUNTED TO WALLS NOT SHOW THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALL FRAMING OF WALLS AND AT LOCATION OF PARE EQUIPMENT AND CABINETS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL 57/SGOO4 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THACKNESS (3 5/8° MIN). DASHED LINE IDRIVICATES ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL 52/SGOO4 FOR MINIMUM REQUIRED FRAMING SAND ATTACHMENT INFORMATION. REFER TO DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THACKNESS (3 5/8° MIN). DASHED LINE IDRIVICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GRAFTER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS 50° MORE INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED FRAMING AND ATTACHMENT INFORMATION. 4. WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F1/SGOO4 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. 5. PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SAND AT 48° O.C. MAX.</li> <li>5. PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SAND AT 48° O.C. MAX.</li> <li>6. ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMEING DRAWINGS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMEING DRAWINGS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMEING DRAWINGS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REF</li></ul>	ON	AND EXTERIOR WINDOW	IS AND DOOR FRAMES A	AND THEIR ATTACHMENTS SHALL	BE CAPABLE		
To ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL COORDINATION OF EQUIPMENT AND CABINETS SHOWN TO BE MOUNTED TO WALLS NOT SHOWN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WALL FRAMING PER DETAILS F1/SCO04, F2/SCO04 AND B1/SCO04 FOR FRAMING OF WALLS AT LOCATIONS WHERE EQUIPMENT AND CABINETS ARE TO BE MOUNTED TO WALLS, AT LOCATIONS WHERE EQUIPMENT AND CABINETS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL 52/SCO04 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION. (CONST. JOINT. 2005 COLUMN RE BASEPLATES F.E. STEP 80'-85'' 80'-85'' 80'-85'' 80'-85''	S SHEET STEP	CABINETS, REFER TO T ATTACHMENT INFORMAT	YPICAL DETAIL F4/SG00 ION. REFER TO ARCHITE	4 FOR MINIMUM REQUIRED FRAM CTURAL DRAWINGS FOR ACTUAL	QUIPMENT OR AING AND REQUIRED	D. COORDINATE LIMITS AN	D LOCATION OF VENE
OUS FOOTING. S SHEET       F2/SG004 AND B1/SG004 FOR FRAMING OF WALLS AT LOCATIONS WHERE ÉQUIPMENT AND CABINETS ARE TO BE MOUNTED WHERE NOT SPECIFICALLY SHOWN THIS SHEET.       F. ALL FOOTINGS ARE CENTERED UNDER COLL OTHERWISE ON PLAN. FOOTINGS ON CENT COLL         GRID       3. WHERE CABINETS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F2/SG004 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION, REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GEATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.       6. SEE SG005 FOR BASEPLATE AND ANCHOR I H. VERIFY ALL WALL OPENING AND INTERIOR W ARCHITECTURAL DRAWINGS.         ./CONST. JOINT. D05         WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F1/SG004 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION.       SEE ARCH. FOR CONTROL JOINT SPACING IN SHOWN THIS SHEET.           WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F1/SG004 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION.            WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS AND ATACHMENT INFORMATION.           SEE ARCH. FOR CONTROL OF MINISUM REQUIRED FRAMING, REFER TO DETAILS FOR MORE INFORMATION.            SEE ARCH. FOR TOILET INFORMATION.              SEE ARCH. FOR TOILET INFORMATION.       <		TO ARCHITECTURAL AN CABINETS SHOWN TO E	D MEP DRAWINGS FOR A BE MOUNTED TO WALLS	ADDITIONAL COORDINATION OF EG NOT SHOWN THIS PLAN. THE CO	QUIPMENT AND ONTRACTOR		GS FOR LOCATION OF
<ul> <li>GRID D</li> <li>MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ÅRCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.</li> <li>4. WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS, REFER TO DETAIL F/SGO4 FOR MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.</li> <li>5. PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SHALL HAVE SUPPORTING STRUCTURE PER DETAIL C2/SGO4 AT ENDS OF WALLS AND AT 48" O.C. MAX.</li> <li>6. ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND</li> <li>80'-8g"</li> <li>80'-8g"</li> </ul>		F2/SG004 AND B1/SG CABINETS ARE TO BE	004 FOR FRAMING OF W MOUNTED WHERE NOT S	WALLS AT LOCATIONS WHERE ÉQU SPECIFICALLY SHOWN THIS SHEET	UIPMENT AND	OTHERWISE ON PLAN.	FOOTINGS NOT CENTER
D       INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER RÉQUIREMENTS THAN TYPICAL WALL GREATER CALL WALL FRAMING, REFER TO DETAILS OF MORE INFORMATION.       H. VERIFY ALL WALL OPENING AND INTERIOR WARCHITECTURAL DRAWINGS.         /CONST. JOINT.       4. WHERE EQUIPMENT AND WALL-MOUNTED SINKS ARE TO BE MOUNTED TO WALLS, REFER TO DETAILS OF ACTUAL REQUIRED FRAMING ND ATTACHMENT INFORMATION. REFER TO ACCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL STENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.       I. SEE ARCH. FOR CONTROL JOINT SPACING II SHOW THIS SHEET. BRICK JOINTS THIS SH THOSE SHOWN ON ARCH DRAWINGS.         0LUMN ZE REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.       SEE SE201 FOR BUILDING STRUCTURE LED AND STRUCTURE LED AND STRUCTURE PER DETAIL C2/S0004 AT ENDS OF WALLS AND AT 48" O.C. MAX.         5. PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SHALL HAVE SUPPORTING STRUCTURE PER DETAIL C2/S0004 AT ENDS OF WALLS AND AT 48" O.C. MAX.       SEE SE201 FOR BUILDING STRUCTURE ELED AND SPECIFICATIONS FOR TOILET INFORMATION.         6. ANY WALL MOUNTED TO ILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SPECIFICATIONS FOR TOILET INFORMATION.       SEE C8/S0005 FOR HOUSEKEEPING OR EQ OF INSTALLED WEP SYSTEMS. SEE GENERAL AND ME ASSOCIATION IS FOR TOILET INFORMATION.         80'-82''       B.2       B.3 C       M. REFER TO SHEET SOO4 FOR TYPICAL INTER EQUIPMENT AND CABINETS SHOWN TO BE M THIS PLAN. THE CONTRACTOR SHALL AND ME AND THE SUPPORT FRAMING CABINETS 20 LIPS AND CR <th>GRID</th> <th>MINIMUM REQUIRED FR</th> <th>AMING AND ATTACHMENT</th> <th>INFORMATION. REFER TO ARCHI</th> <th>TECTURAL</th> <th>G. SEE SG005 FOR BASEF</th> <th>PLATE AND ANCHOR B</th>	GRID	MINIMUM REQUIRED FR	AMING AND ATTACHMENT	INFORMATION. REFER TO ARCHI	TECTURAL	G. SEE SG005 FOR BASEF	PLATE AND ANCHOR B
<ul> <li>bit all f1/s004 F0R MINIMUM REQUIRED FRAMING AND ATTACHMENT INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL REQUIRED WALL FRAMING THICKNESS (3 5/8" MIN). DASHED LINE INDICATES APPROXIMATE EXTENTS OF SUPPORT FRAMING WITH GREATER REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.</li> <li>b. PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SHALL HAVE SUPPORTING STRUCTURE PER DETAIL C2/SG004 AT ENDS OF WALLS AND AT 48" O.C. MAX.</li> <li>c. ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR TOILET INFORMATION.</li> <li>B.2</li> <li>B.2</li> <li>B.3</li> <li>C</li> <li>C</li> <li>B.3</li> <li>C</li> <li>C</li> <li>C</li> <li>B.3</li> <li>C</li> <li>C</li> <li>B.3</li> <li>C</li> <li>C</li> <li>B.3</li> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>C</li> <li>B.3</li> <li>C</li> <lic< li=""> <lic< td=""><th>D</th><td>INDICATES APPROXIMAT</td><td>E EXTENTS OF SUPPORT</td><td>FRAMING WITH GREATER RÉQUI</td><td></td><td></td><td></td></lic<></lic<></ul>	D	INDICATES APPROXIMAT	E EXTENTS OF SUPPORT	FRAMING WITH GREATER RÉQUI			
ZE       REQUIREMENTS THAN TYPICAL WALL FRAMING, REFER TO DETAILS FOR MORE INFORMATION.       J. SEE SE201 FOR BUILDING STRUCTURE ELEN         R BASEPLATES       F.E. STEP       5. PARTIAL HEIGHT WALLS AND COUNTERTOP STATION FACE WALLS SHALL HAVE SUPPORTING STRUCTURE PER DETAIL C2/SG004 AT ENDS OF WALLS AND AT 48" O.C. MAX.       J. SEE SE201 FOR BUILDING STRUCTURE ELEN         6. ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR TOILET INFORMATION.       J. SEE SE201 FOR BUILDING STRUCTURE ELEN         80'-8g''       B.2       B.3 C       OF INSTALLED MEP SYSTEMS. SHOWN TO BE NOT THE CONTRACTOR SHALL BE RE         80'-8g''       B.3 C       M. REFER TO SHEET SO04 FOR TYPICAL INTER       M. REFER TO SHEET SO04 FOR TYPICAL INTER	Ú05	DETAIL F1/SG004 FOR TO ARCHITECTURAL DR	MINIMUM REQUIRED FRA AWINGS FOR ACTUAL RE	AMING AND ATTACHMENT INFORM/ QUIRED WALL FRAMING THICKNES	ATION. REFER SS (3 5/8"	SHOWN THIS SHEET. B	RICK JOINTS THIS SHE
F.E. STEP       STRUCTURE PER DETAIL C2/SG004 AT ENDS OF WALLS AND AT 48" O.C. MAX.       FULL COORDINATION OF MISC. SUPPORT AN ITEMS PRIOR TO FABRICATION. LOCATIONS OF CONTROL SHALL MOUNTED TO ILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SPECIFICATIONS FOR TOILET INFORMATION.         6. ANY WALL MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR TOILET INFORMATION.       FULL COORDINATION OF MISC. SUPPORT AN ITEMS PRIOR TO FABRICATION. LOCATIONS OF CONTROL OF INSTALLED MEP SYSTEMS. SEE GENERAL         B.2       B.3       C         B.2       B.3       C         B.2       B.3       C         B.3       C       C         M. REFER TO SHEET SOO4 FOR TYPICAL INTER       DETAILS. REFER TO ARCHITECTURAL AND ME EQUIPMENT AND CABINETS SHOWN TO BE MED STAND CABINETS SHOWN TO BE MED STAND.	ZE					J. SEE SE201 FOR BUILD	ING STRUCTURE ELEVA
<ul> <li>6. ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND SHALL NOT BE MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND OTHER ITEMS WILL VARY ACCORDING TO EQ OF INSTALLED MEP SYSTEMS. SEE GENERAL</li> <li>6. ANY WALL MOUNTED TO WALL FRAMING, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR TOILET INFORMATION.</li> <li>6. ANY WALL MOUNTED TOILETS SHALL HAVE FULL HEIGHT STEEL FRAME WALL CARRIERS AND OTHER ITEMS WILL VARY ACCORDING TO EQ OF INSTALLED MEP SYSTEMS. SEE GENERAL</li> <li>6. SEE C8/SG005 FOR HOUSEKEEPING OR EQ MEP DRAWINGS FOR SIZE AND LOCATION OF METALS. REFER TO SHEET SOUL FOR TYPICAL INTER DETAILS. REFER TO ARCHITECTURAL AND ME EQUIPMENT AND CABINETS SHOWN TO BE A THIS PLAN. THE CONTRACTOR SHALL BE RE OF THIS PLAN. THE CONTRACTOR SHALL BE READ OF THIS PLAN. THE CONTRACTOR</li></ul>	F.E. STEP					FULL COORDINATION OF	F MISC. SUPPORT AND
B.2 B.2 B.2 B.3 B.3 B.3 B.3 B.3 B.3 B.3 B.3		SHALL NOT BE MOUNT	ED TO WALL FRAMING, F			OTHER ITEMS WILL VAR	Y ACCORDING TO EQU
B.2 B.3 C B.3 C B.3 C B.3 C BETAILS. REFER TO ARCHITECTURAL AND ME EQUIPMENT AND CABINETS SHOWN TO BE M THIS PLAN. THE CONTRACTOR SHALL BE RE PER DETAILS ON SHEET SOO4 FOR FRAMING FOUIPMENT AND CABINETS 20 LBS AND GR						L. SEE C8/SG005 FOR H MEP DRAWINGS FOR SI	OUSEKEEPING OR EQU ZE AND LOCATION OF
77'-5 <sup>5</sup> " EQUIPMENT AND CABINETS 20 LBS AND GR CONTRACT.	80'–8	$\bigvee$		B.3 C		DETAILS. REFER TO AR EQUIPMENT AND CABIN THIS PLAN. THE CONTF	CHITECTURAL AND MER ETS SHOWN TO BE MO RACTOR SHALL BE RES
	77'–5	55" 08		$78^{-1}$			ETS 20 LBS AND GRE

-( 5.1 )

# GENERAL ADD1 NOTES: ADDED TYP WHERE APPLICABLE TO I ADDED KEYNOTE CALLOUTS TO TYP.

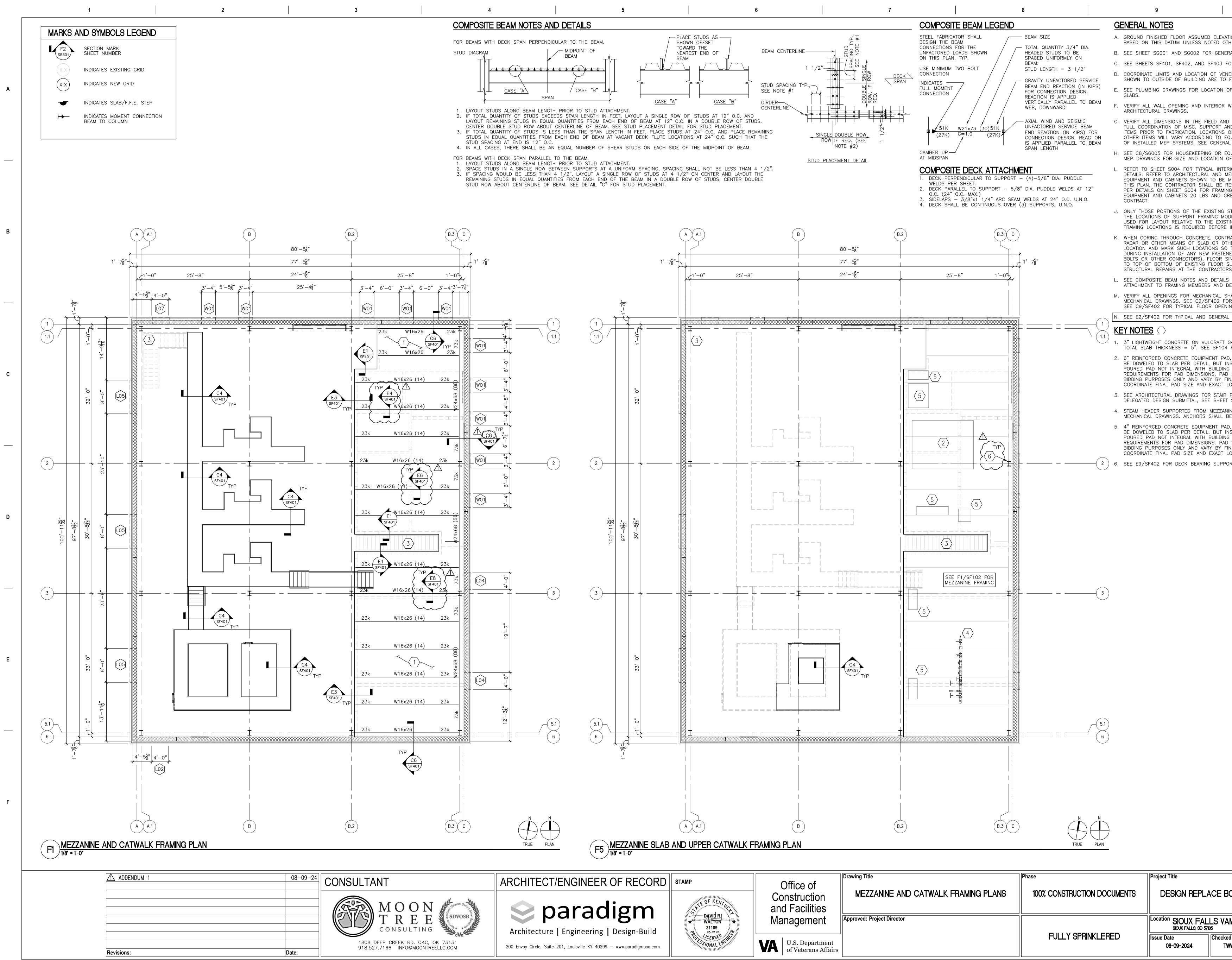
	Drawing Title		Phase		Project Title		
of ction ctiities	FOUNDATION AND SLAB PLANS		100% CC	100% CONSTRUCTION DOCUMENTS		DESIGN REPLACE BO	
ment	Approved: Project Director				Location SIOUX F SIOUX FALLS,		
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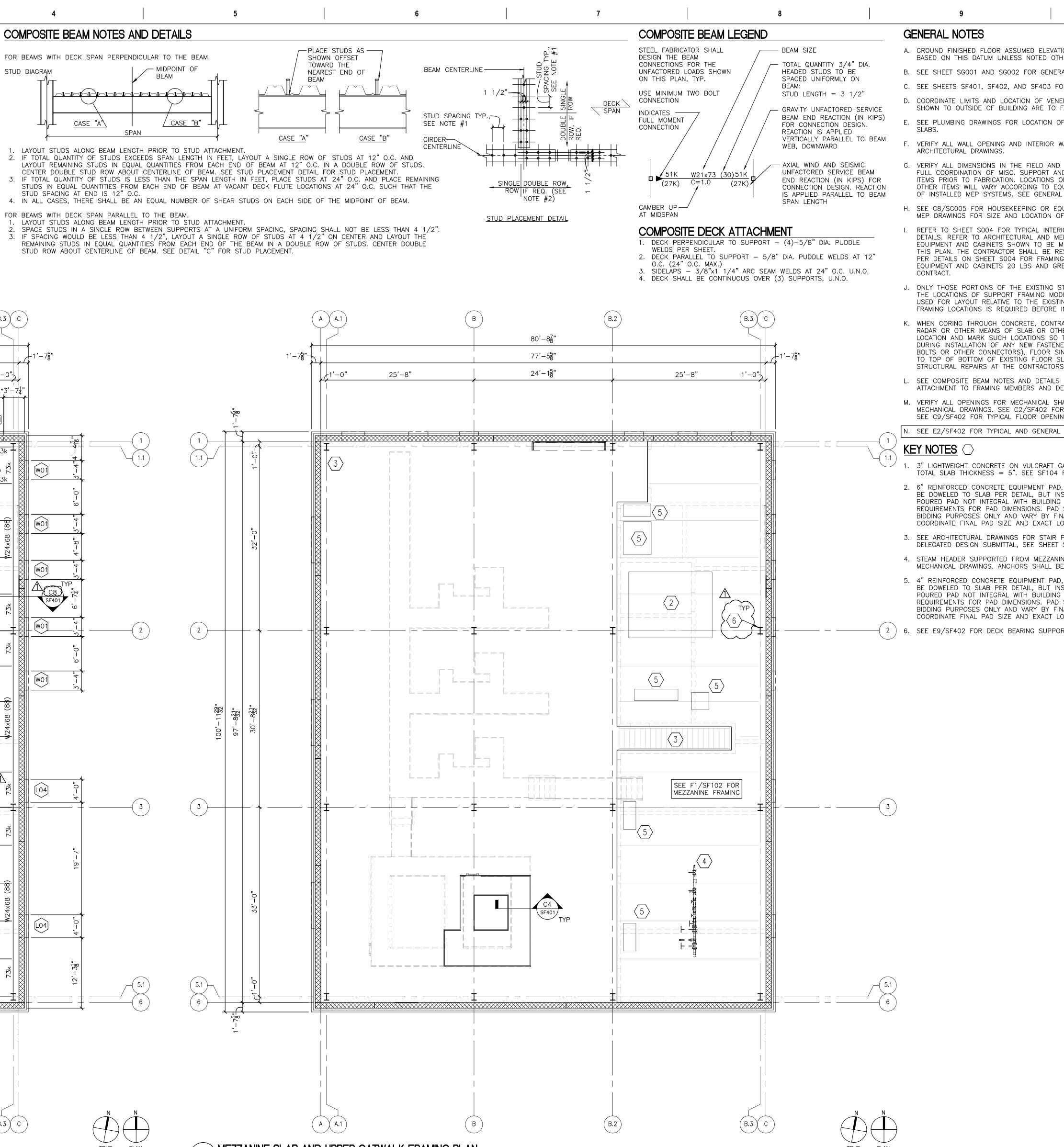
				1			]
						.87') ALL ELEVATIONS ARE	
		BASED ON	THIS DATUM UNLESS NO T SG001 AND SG002 FOI	DTED OTHERWISI	E.		
	C.	SEE SHEE	TS SB301 AND SB302 FO	OR FOUNDATION	DETAILS.		
	D.		TE LIMITS AND LOCATION OUTSIDE OF BUILDING A			AL DRAWINGS. DIMENSIONS	
		SLABS.	BING DRAWINGS FOR LOC				A
	F.	OTHERWISE	NGS ARE CENTERED UND E ON PLAN. FOOTINGS NO ON PLAN WITH DIMENSION	DT CENTERED C	R NOT SUPPOR		
			5 FOR BASEPLATE AND A				
		ARCHITECT	URAL OPENING AND IN				
	Ι.	SHOWN TH	. FOR CONTROL JOINT SI IIS SHEET. BRICK JOINTS OWN ON ARCH DRAWINGS	THIS SHEET AF		S SHOWN IN ADDITION TO	
			1 FOR BUILDING STRUCTU			WALL INFORMATION.	
	1.	FULL COO	RDINATION OF MISC. SUP OR TO FABRICATION. LOC/ MS WILL VARY ACCORDIN	PORT AND FRAM ATIONS OF SUP	MING STEEL AND PORTS, HANGER	D OTHER STRUCTURAL RS, ATTACHMENTS AND	
	I	OF INSTAL	LED MEP SYSTEMS. SEE	GENERAL NOTE	S ON SGOO1 AI		
		MEP DRAW	INGS FOR SIZE AND LOC	ATION OF PADS	5.		В
		EQUIPMENT THIS PLAN PER DETAI	T AND CABINETS SHOWN I. THE CONTRACTOR SHAL LS ON SHEET SO04 FOR T AND CABINETS 20 LBS	TO BE MOUNTE L BE RESPONS FRAMING OF V	D TO WALLS NO SIBLE FOR COOF VALLS AT LOCAT	RDINATING WALL FRAMING TONS WHERE ADDITIONAL	
	N.	THE LOCA USED FOR	SE PORTIONS OF THE EX TIONS OF SUPPORT FRAM LAYOUT RELATIVE TO TH OCATIONS IS REQUIRED I	ING MODIFICATION	ON OR ADDITION RUCTURE, HOWE	N. DRAWINGS SHALL BE VER FIELD VERIFICATION OF	
)		RADAR OR LOCATION DURING IN BOLTS OR TO TOP O STRUCTUR		OR OTHER STI ONS SO THAT N FASTENERS (P LOOR SINKS DI FLOOR SLAB. AI TRACTORS EXPE	RUCTURAL COME NO EXISTING RE OWER ACTUATED RAINS OR OTHE NY DAMAGED RE INSE.	PONENT REINFORCING INFORCING IS DAMAGED D FASTENERS, SCREWS, R MEP SLAB PENETRATIONS EINFORCING WILL REQUIRE	
		SIDEWALKS	5, ETC. SISTANT EXTERIOR WINDOV	WS AND DOOR	FRAMES AND TH	IEIR ATTACHMENTS AND	
		PSI-MSEC	E SHALL BE CAPABLE OF . SEE SE201 FOR MORE	INFORMATION.			с
	R.	LOCATIONS	AND ARCHITECTURAL DRA 5. REFER TO SHEET SB3C RUCTURES.				
	S.		B301 FOR FOOTING STEP WALL LOCATIONS.	AND DETAILING	G AROUND MEP	PENETRATIONS THROUGH	
	Т.	SLABS, AN	ACKFILL TUNNEL, BASEME ID BRACING ARE COMPLE NT ON COMPLETION OF B	TED AT GRADE.	STABILITY OF F		
ک (	U.	AT MEP P	$\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim$	FOUNDATION FO	OTINGS, SEE F2	/SB301 WHERE CONFLICT	
	С КF		S - FOUNDATION				
)		SEE ARCH DELEGATED	ITECTURAL DRAWINGS FOR DESIGN SUBMITTAL, SEE ROM SLAB USING POSTS	R STAIR PLANS 5 SHEET SG002	AND DETAILS, S . SUPPORT LOW	/ER STAIR AND CORNER	
	2.	7" SLAB-( I5 MIL CL/ GRADE AS REQUIRED SPECIFICAT THE GEOT SOIL CONI	ASS "A" VAPOR BARRIER SPECIFIED IN THE GEOTI SPECIAL FLOOR FLATNES FION REQUIREMENTS FOR ECHNICAL REPORT SUBGR DITIONS ENCOUNTERED ON	WITH #4 AT 18 OVER 8" CLEAN ECHNICAL REPO IS AND LEVELNE OTHER FLOOR RADE PREPARATI N SITE. A GEOT	" O.C. E.W. PLA N CRUSHED STO RT. REFER TO ESS REQUIREME AREAS. THE CO ON REQUIREMEN ECHNICAL REPR	ACED AT MID-SLAB OVER A DNE OVER PREPARED SUB EQUIPMENT SUPPLIER FOR NTS BEYOND TYPICAL DNTRACTOR SHALL FOLLOW NTS DUE TO THE EXISTING ESENTATIVE SHALL BE	D
	3.	PREPARATI				OUNDATION AND SUBGRADE	
	4.		ENCH BOTTOM TO DRAIN = 97'-4" TYPICAL AT IN			PLANS. ILESS NOTED OTHERWISE.	
		,	GOO5 FOR FOOTING AND			AT CORNERS, TYP. N SHEET SG003 AND CMU	
)		WALL REIN BRICK VEN CONTROL CONTRACTO	IFORCING ELEVATIONS ON NEER EXPANSION JOINT L JOINTS SHALL BE SPACEI OR.	SHEET SE201 OCATIONS NOT D AT 40' MAX,	FOR MORE INF SHOWN THIS PI LOCATIONS AT	ORMATION. SEE ARCH FOR AN. INTERIOR WALL CMU DISCRETION OF	
		REQUIREM					
		12"X12" C	GOO5 FOR ADDITIONAL RE OR WHERE TYPICAL SLAB 'LUMBING PIT, SEE DETAIL	REINFORCING IS	S DISRUPTED, T		
	J.		ACCESS PIT LADDER. GR				E
	10.	BE DOWEL POURED P REQUIREM BIDDING P	RCED CONCRETE EQUIPM ED TO SLAB PER DETAIL, PAD NOT INTEGRAL WITH I ENTS FOR PAD DIMENSION URPOSES ONLY AND VAR FE FINAL PAD SIZE AND	, BUT INSTALLE BUILDING FLOOF NS. PAD SIZES Y BY FINAL EQ	D ÁS A COLD U R SLAB. SEE EG SHOWN ARE FO UIPMENT MODEL	QUIPMÉNT SUPPLIER DR APPROXIMATE SIZE _ PROVIDED. GC TO	
	11.	AT DOORW	AYS, ADD #5 HAIRPIN BA NN DETAILS REFERENCED,	ARS EACH SIDE	,		
)	12.		IANICAL AND PLUMBING F ND PROTECTED BEFORE F		DRAINS AND S	LAB PENETRATIONS TO BE	
)	13.		ADER SUPPORTED FROM ANCHORS SHALL BE DR			STANDS, SEE MECHANICAL	
		APPROVED	TROL JOINT / CONSTRUC BY GC PROPOSED SLAB	POUR SCHEDU	JLING SUBMITTA	L.	
(	$\sim$	$\sim\sim\sim$	NNEL, SEE MECHANICAL A B302 FOR BOLLARD INST	$\sim\sim\sim\sim$	$\sim$	SB302 FOR DETAILS.	
ζ	$\overline{}$	~~~		~~~~~	$\sim$		F
)			ENERAL ADD1 NOTES:	~~~~~	$\sim$		
•		( A	DDED TYP WHERE APPLIC			FOR CLARITY.	
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_			Project Title			Project Number 438-22-900	
CI	U <b>M</b> E	ENTS	DESIGN REPLA	ACE BOILEF	R PLANT	Building Number	
			Location SIOUX FAL	LS VAMC		Drawing Number	
RE	ED		SIOUX FALLS, SD 571		Drawn	SB101	
			08-09-2024	TWW	DRW		

SECTION MARK SHEET NUMBER

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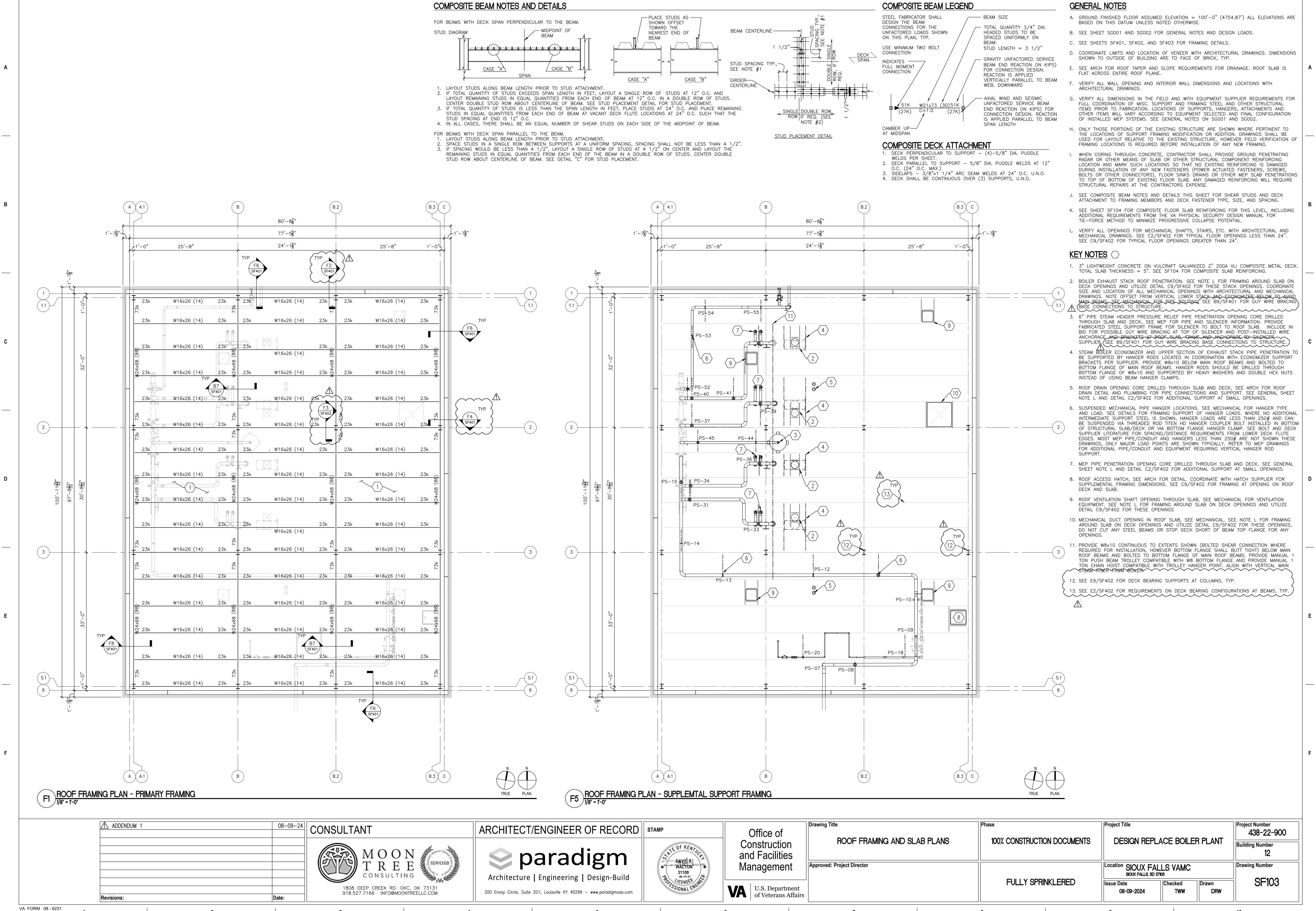
BEAM TO COLUMN

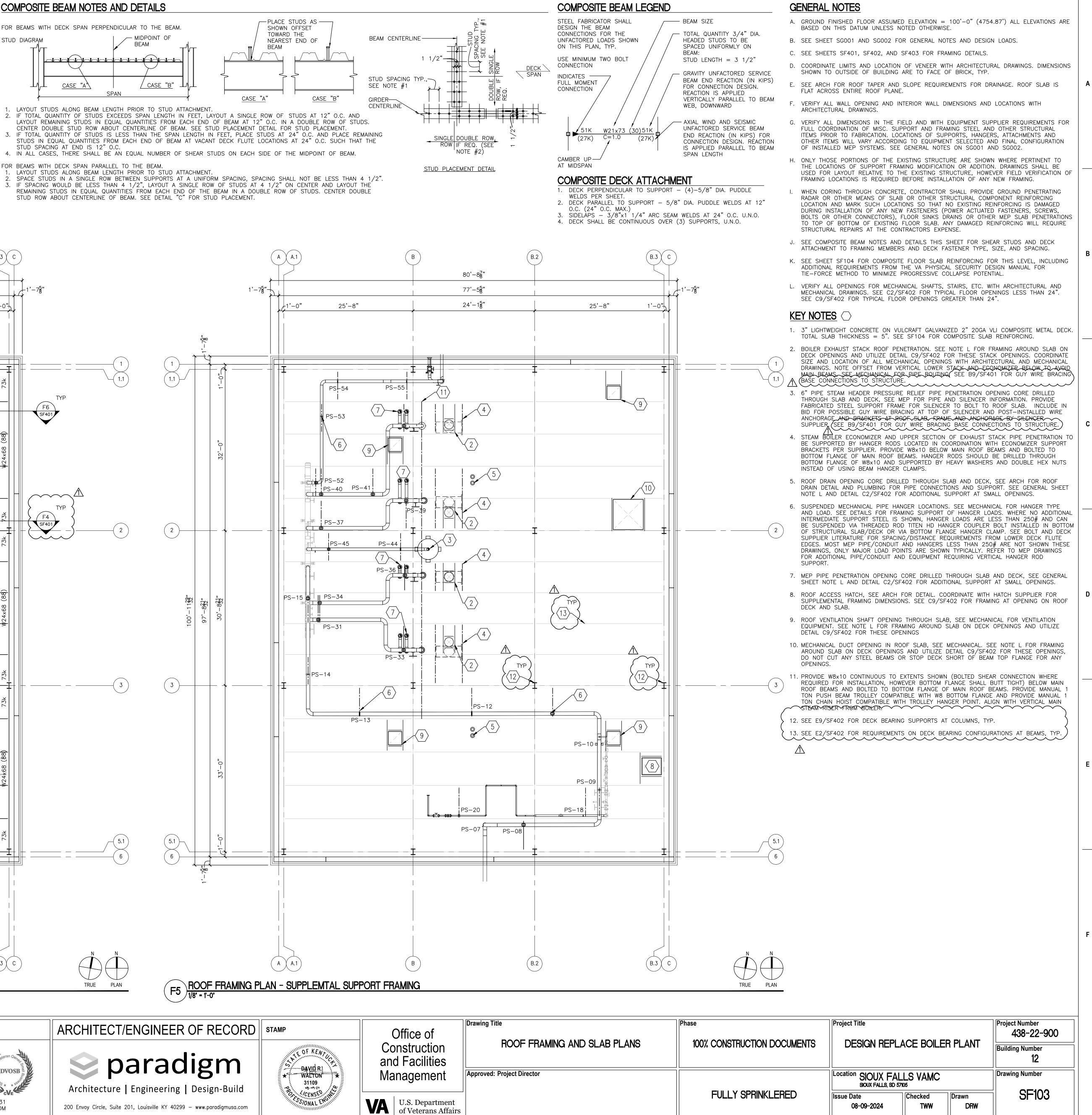




of ction ilities	Drawing Title MEZZANINE AND CATWALK FRAMING PLANS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title DESIGN REPLACE BO	
ment	Approved: Project Director		Location SIOUX FALLS VAM SIOUX FALLS, SD 57105	
epartment erans Affairs		FULLY SPRINKLERED	Issue Date 08-09-2024	Checked TWW
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TION = $100'-0"$ (4754.87') ALL ELEVATIONS ARE THERWISE.	
RAL NOTES AND DESIGN LOADS. OR FRAMING DETAILS.	
IEER WITH ARCHITECTURAL DRAWINGS. DIMENSIONS FACE OF BRICK, TYP.	
DF FLOOR DRAINS AND DEPRESSED/SLOPED	Α
WALL DIMENSIONS AND LOCATIONS WITH	
O WITH EQUIPMENT SUPPLIER REQUIREMENTS FOR ND FRAMING STEEL AND OTHER STRUCTURAL OF SUPPORTS, HANGERS, ATTACHMENTS AND	
QUIPMENT SELECTED AND FINAL CONFIGURATION	
QUIPMENT MOUNTING PADS. REFER TO ARCH AND DF PADS.	
RIOR NON-LOADBEARING LIGHT GAGE FRAMING IEP DRAWINGS FOR ADDITIONAL COORDINATION OF MOUNTED TO WALLS NOT SPECIFICALLY SHOWN	
RESPONSIBLE FOR COORDINATING WALL FRAMING NG OF WALLS AT LOCATIONS WHERE ADDITIONAL REATER ARE TO BE MOUNTED UNDER THIS	
STRUCTURE ARE SHOWN WHERE PERTINENT TO DIFICATION OR ADDITION. DRAWINGS SHALL BE ING STRUCTURE, HOWEVER FIELD VERIFICATION OF INSTALLATION OF ANY NEW FRAMING.	-
RACTOR SHALL PROVIDE GROUND PENETRATING HER STRUCTURAL COMPONENT REINFORCING	В
THAT NO EXISTING REINFORCING IS DAMAGED NERS (POWER ACTUATED FASTENERS, SCREWS, SINKS DRAINS OR OTHER MEP SLAB PENETRATIONS SLAB. ANY DAMAGED REINFORCING WILL REQUIRE	
S EXPENSE.	
DECK FASTENER TYPE, SIZE, AND SPACING.	
DR TYPICAL FLOOR OPENINGS LESS THAN 24". INGS GREATER THAN 24".	
L COMPOSITE BEAM FRAMING DETAILS.	
GALVANIZED 2" 20GA VLI COMPOSITE METAL DECK. FOR COMPOSITE FLOOR SLAB REINFORCING.	
D, SEE C8/SG005 FOR PAD DETAILS. PAD SHALL	
G MEZZANINE SLAB. SEE EQUIPMENT SUPPLIER SIZES SHOWN ARE FOR APPROXIMATE SIZE INAL EQUIPMENT MODEL PROVIDED. GC TO LOCATION. SEE C8/SB302.	С
PLANS AND DETAILS, STAIR FRAMING IS SG002 AND SB101 FOR MORE INFORMATION.	
IINE FLOOR SLAB WITH STEEL PIPE STANDS, SEE BE DRILLED AND EPOXIED.	
D, SEE C8/SG005 FOR PAD DETAILS. PAD SHALL	
G MEZZANINE SLAB. SEE EQÚIPMENT SUPPLIER SIZES SHOWN ARE FOR APPROXIMATE SIZE INAL EQUIPMENT MODEL PROVIDED. GC TO LOCATION. SEE C8/SB302.	
DRTS AT COLUMNS, TYP.	
	D
	E
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Project Number	
BOILER PLANT	
Drawing Number	
ed Drawn 5F102	





of ction	Drawing Title ROOF FRAMING AND SLAB PLANS Approved: Project Director				Project Title DESIGN REPLACE BO	
ilities ment						
epartment erans Affairs			FULLY SPRI	NKLERED	Issue Date 08-09-2024	Checked TWW
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	ADDENDUM 1		08-09-24	CONSULTANT
				MOON TREE CONSULTING
	Revisions:		Date:	1808 DEEP CREEK RD. OKC, OK 918.527.7166 INFO@MOONTREEL

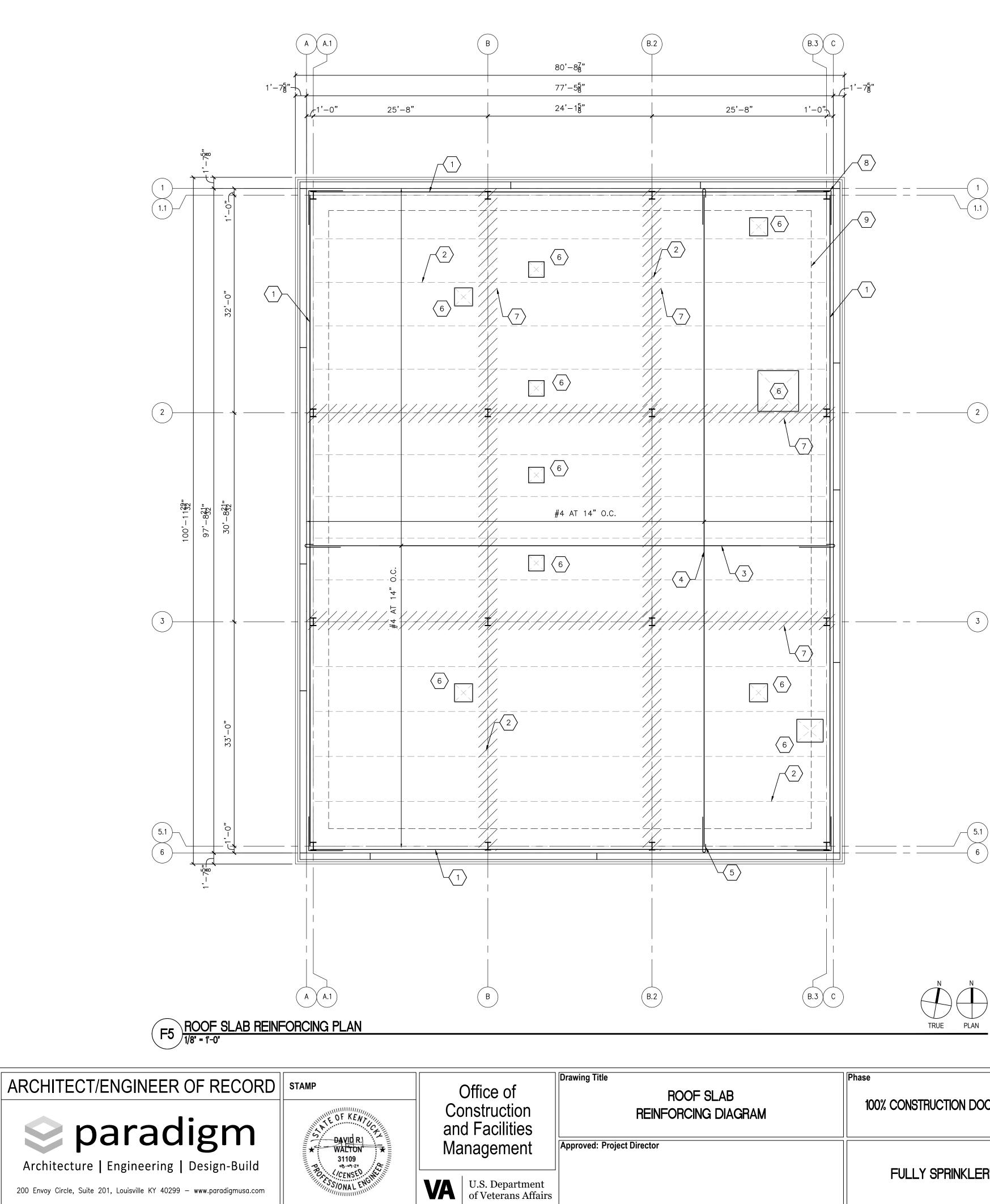
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P CREEK RD. OKC, OK 73131 66 INFO@MOONTREELLC.COM

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SDVOSB

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	TIE SCHEDULE				
TIE TYPE	TIE SIZE	SPACING	NOTES		
PERIMETER "P1"	(3)-#5 CONT.	N/A			
PERIMETER "P2"	(5)-#5 CONT.	N/A	1		
X-DIRECTION	AS SHOWN	AS SHOWN			
Y-DIRECTION	AS SHOWN	AS SHOWN			
NOTES: 1. CONTRACTOR OPTION: (4) #6 CONT. BARS					

8



9

- . TIE-FORCE REQUIREMENTS ARE AS OUTLINED THIS REFERENCE FOR MORE INFORMATION
- B. SEE SHEET SF102 FOR FRAMING AND DIMEN THIS PLAN. FOR CLARITY. THIS PLAN SHOWS COLUMN FRAMING AND TIE-FORCE SLAB REI REQUIREMENTS ARE AS NOTED BELOW.
- SPLICES IN STEEL REINFORCEMENT USED FO TIES ARE NOT SHOWN ON THIS PLAN AND A TO COORDINATE. SPLICES SHALL BE CLASS JOINED WITH TYPE I OR II MECHANICAL SPL MAY BE USED AT ANY LOCATION WITHIN THE SPLICES AND CLASS B LAP SPLICES SHALL E BAY SPACING IN THE DIRECTION OF THE TIE
- D. SPLICES IN STEEL REINFORCEMENT USED FO PLAN AND ARE THE RESPONSIBILITY OF THE TIES, TYPE I MECHANICAL SPLICES, WELDED LOCATED NO CLOSER THAN 20% OF THE BAY
- E. NON-CONTACT SPLICES ARE NOT ALLOWED. F. USE SEISMIC HOOKS, SAME SIZE AS INTERNA INTERNAL TIES, USING ACI CHAPTER 12 LAP
- SG005), TO ANCHOR INTERNAL TIES TO PERI SLAB. ANCHORS SHALL ENCOMPASS OUTER L THAN ONE BAR IS USED FOR PERIPHERAL

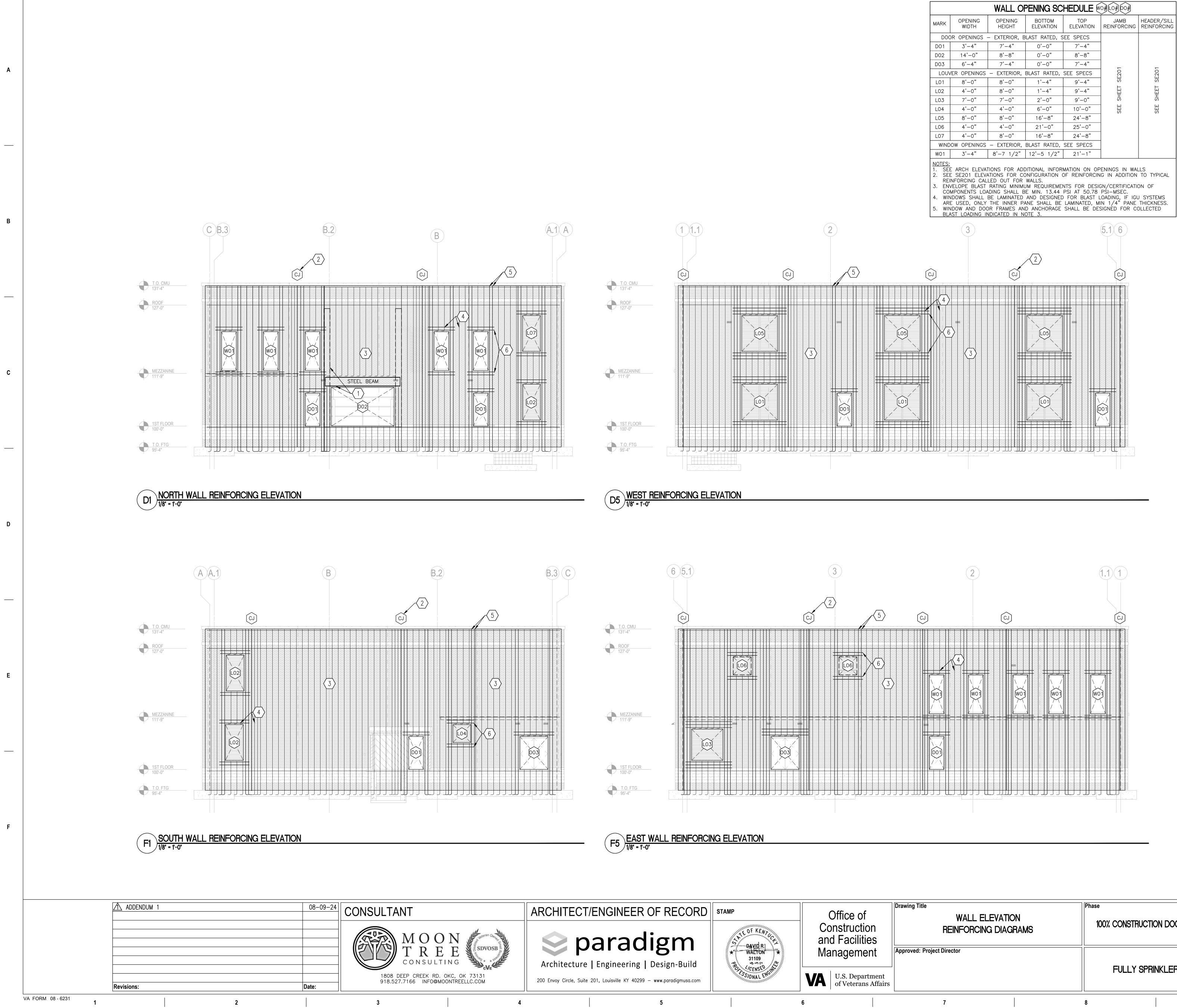
### Key notes

BUILDING.

- 1. CONTINUOUS PERIMETER/PERIPHERAL TIE BAI SHEET NOTE D FOR SPLICE INFORMATION.
- 2. BEAM/GIRDER FRAMING, TYP. REFER TO SHE SPACING SUCH THAT INTERNAL TIES DO NOT
- MEMBERS, TYP. 3. "X-DIRECTION" CONTINUOUS INTERNAL TIE
- 4. "Y-DIRECTION" CONTINUOUS INTERNAL TIE
- 5. SEISMIC HOOK PER ACI 318, SAME SIZE ANI PROVIDE SPLICE WITH TIE REINFORCING, TYP.
- 6. AT CORNERS PENETRATIONS LARGER THAN 1 CONFIGURED PER DETAIL C9/SF402 AND EX ON SHEET SG005.
- 7. AT COLUMN LINES PROVIDE BARS BETWEEN INTERNAL TIE REINFORCING BUT DO NOT SP SPECIFICALLY SHOWN ON PLAN AT ALL LOCA COLUMN/BEAM AND COLUMN/GIRDER LINES. TO BE SHIFTED TO AVOID BEING PLACED D OFFSET IS REQUIRED TO AVOID CONFLICT W
- 8. PROVIDE CORNERS BARS SAME SIZE AND N EACH LEG. 9. PERIPHERAL TIES SHALL BE LOCATED WITHIN

	ROOF SLAB REINFORCING DIAGRAM		60	Project Title DESIGN REPLACE BO Location SIOUX FALLS VAM SIOUX FALLS, SD 57105	
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ment					
epartment erans Affairs			FULLY SPRINKLERED	Issue Date 08-09-2024	Checked TWW
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ED IN UFC 4-023-03 SECTION 3-1. REFER TO ON THE ITEMS SHOWN THIS PLAN. INSIONS AND OTHER INFORMATION NOT SHOWN IS ONLY THE SLAB EDGE PERIMETER, BEAM AND EINFORCING. ADDITIONAL REINFORCING	
OR INTERNAL LONGITUDINAL AND TRANSVERSE ARE THE RESPONSIBILITY OF THE CONTRACTOR B LAP SPLICES, WELDED OR MECHANICALLY LICES PER ACI 318. TYPE II MECHANICAL SPLICES IE SLAB. TYPE I MECHANICAL SPLICES, WELDED BE LOCATED NO CLOSER THAN 20% OF THE E TO ANY COLUMN/BAY GRID LINES. TOR PERIPHERAL TIES ARE NOT SHOWN ON THIS E CONTRACTOR TO COORDINATE. FOR PERIPHERAL	A
O SPLICES AND CLASS B LAP SPLICES SHALL BE BAY SPACING TO THE COLUMN GRID LINES. NAL TIES, PER ACI 318 TO LAP WITH ENDS OF P LENGTHS (SEE LAP SCHEDULE ON SHEET RIPHERAL CONTINUOUS TIE AT PERIMETER OF	
LINE OF PERIPHERAL REINFORCEMENT IF MORE TIE LINE.	
ARS, TYP. REFER TO SCHEDULE. REFER TO IEET SF102. ADJUST CONTINUOUS INTERNAL TIE IT FALL DIRECTLY ABOVE FLOOR FRAMING	В
REINFORCING, TYP. REFER TO SCHEDULE. REINFORCING, TYP. REFER TO SCHEDULE. ND SPACING AS INTERNAL TIE REINFORCING.	
P. REFER TO SHEET NOTE C. 12"x12", PROVIDE SLAB REINFORCING XTEND BARS INTO SLAB FIELD PER LAP LENGTH	
I COLUMNS SAME SIZE AND SPACING AS PLICE OR LAP WITHIN THE COLUMN STRIP, NOT CATIONS FOR CLARITY, BUT TYPICAL ALL DISCONTINUOUS REINFORCING DOES NOT NEED DIRECTLY OVER MEMBERS, HOWEVER MINOR WITH COMPOSITE BEAM SHEAR STUDS.	
N 3'-3" OF EDGE OF SLAB, ALL EDGES OF	_
	C
	D
	E
	F
OILER PLANT	
MC Building Number	
d Drawn DRW SF104	



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**GENERAL NOTES** 

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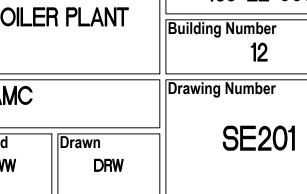
- A. GROUND FINISHED FLOOR ASSUMED ELEVATI BASED ON THIS DATUM UNLESS NOTED OTH
- B. SEE PLANS FOR DETAIL REFERENCES RELATI
- C. COORDINATE LIMITS AND LOCATION OF VENEL SHOWN TO OUTSIDE OF BUILDING ARE TO
- D. VERIFY ALL WALL OPENING AND INTERIOR ARCHITECTURAL DRAWINGS.
- E. SEE ARCH. FOR CONTROL JOINT SPACING AS SHOWN ON ARCH DRAWINGS.

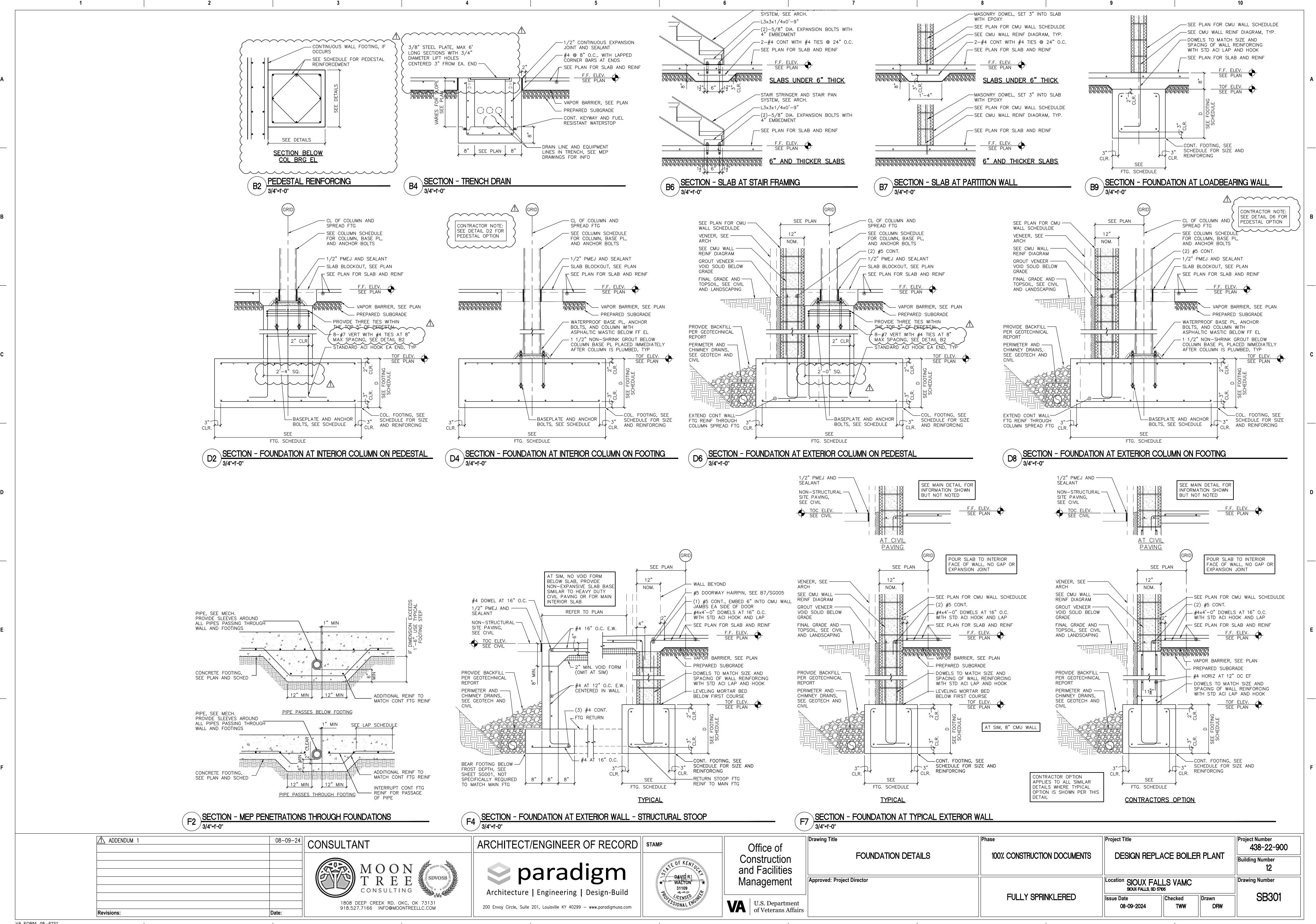
### KEY NOTES

- BRACING AND BACKUP FRAME ABOVE AND WIDTH, SEE DETAIL REFERENCES AT THESE I
- 2. FULL HEIGHT CMU WALL EXPANSION JOINT, SIDE OF JOINT, 2 CELLS GROUTED AND REI 2.5" CLEAR FROM FACE, SEE CMU REINFOR
- 3. TYPICAL WALL REINFORCING IN CMU WALLS 4. ALL VERTICAL CMU CELL REINFORCING AND BARS EA. FACE OF WALL, 2.5" CLEAR FROM
- 5. ADDITIONAL REINFORCED CELLS AT JAMBS
- 6. BOND BEAMS WITH REINFORCING TOP AND REINFORCING MIN 24" BEYOND OPENING EA

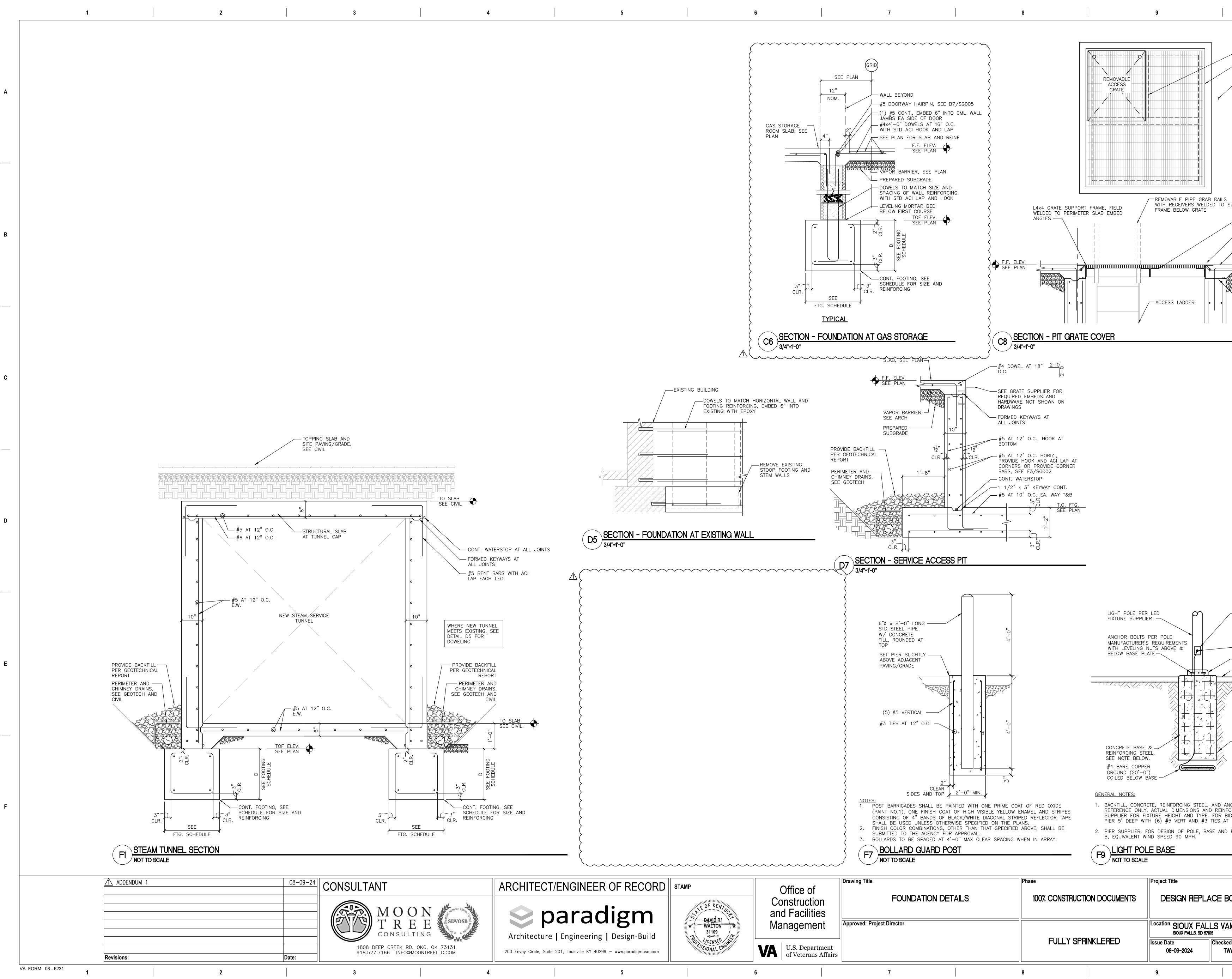
	Drawing Title	Phase	Project Title	
of ction ilities	WALL ELEVATION REINFORCING DIAGRAMS	100% CONSTRUCTION DOCUMENTS	DESIGN REPLACE BOILE	
ment	Approved: Project Director		Location SIOUX FALLS VAMC SIOUX FALLS, SD 57105	
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HERWISE. TIVE TO ITEMS SHOWN	AL DRAWINGS. DIMENSIONS	
WALL DIMENSIONS AND		Α
LOCATIONS, TYP. SEE ARCH FOR BRICK EINFORCED WITH (1) #5 RCING DETAILS, TYP. (2) #5 AT 16" O.C. (	GS GREATER THAN 8'-0" EXPANSION JOINTS. EA. 5 BARS EA. FACE OF WALL, (1 BAR EA. FACE). EAM BARS SHOWN ARE #5	
AS SHOWN. BOTTOM OF OPENING A A. SIDE., TYP.	AS SHOWN, EXTEND	
		В
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		D
		E
		F
	Project Number 438-22-900	
OILER PLANT	Puilding Number	

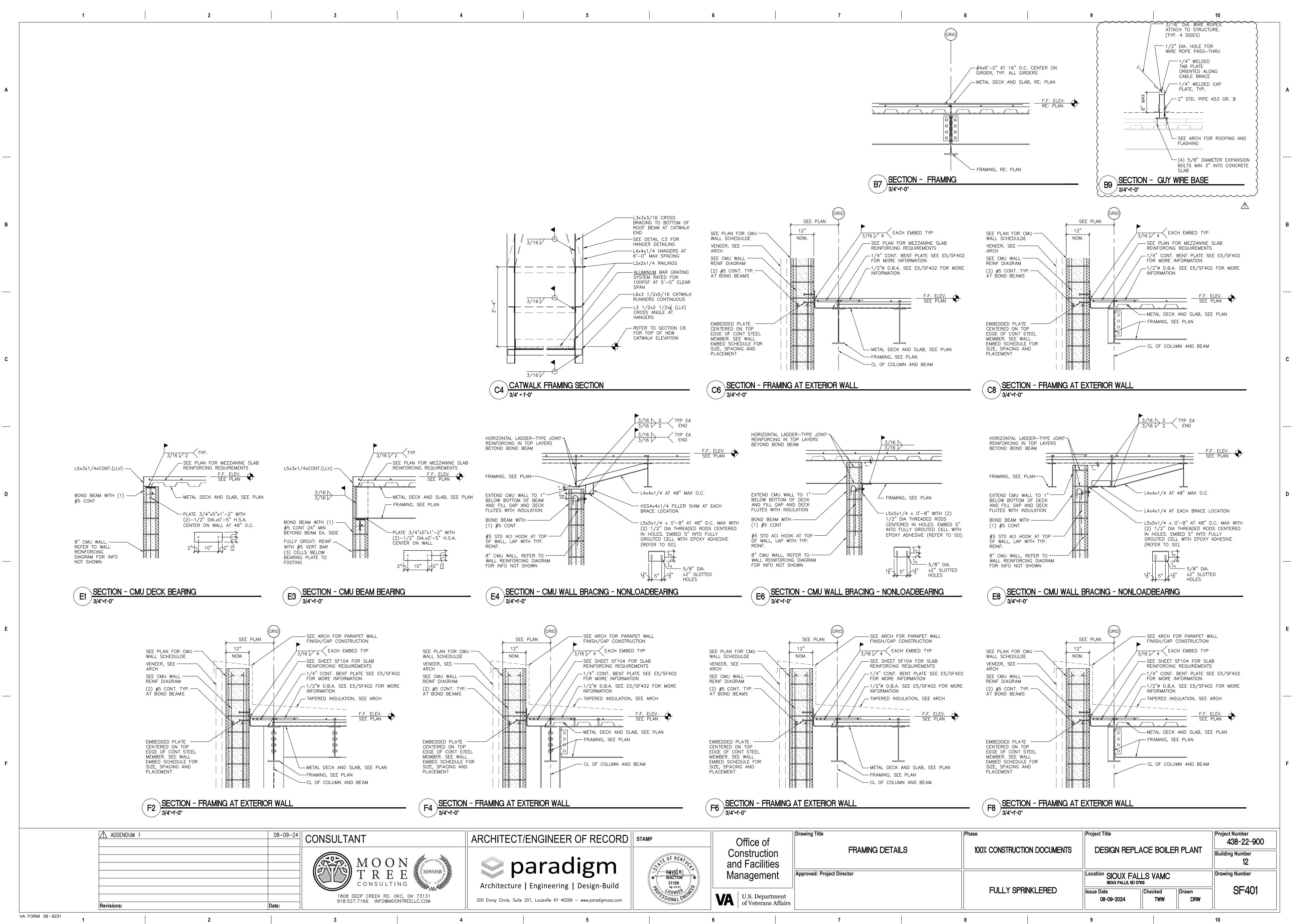








INTERMEDIATE GRATE SUPPORT FRAME EMBED PERIMETER FRAME SET INTO CONCRETE SLAB EDGE WALL AND SLAB, SEE DETAILS	A
SUPPORT INTERMEDIATE GRATE SUPPORT FRAME EMBED PERIMETER FRAME SET INTO CONCRETE SLAB EDGE WALL AND SLAB, SEE DETAILS	В
FORMED KEYWAYS AT ALL JOINTS	C
	D
<ul> <li>(3"x5") REINFORCED HAND HOLE WITH TAMPER RESISTANT SCREWS. PROVIDE IN-LINE SCREW-TYPE FUSE HOLDER(S) WITH FUSE(S).</li> <li>POLE GROUNDING STUD</li> <li>2-PIECE BOLT COVER PLATE.</li> <li>FINISHED PAVING/GRADE</li> </ul>	E
<ul> <li>UNDISTURBED SOIL OR SELECT BACKFILL COMPACTED, SEE NOTE BELOW.</li> <li>NOTE BELOW.</li> <li>NOTE BOLTS ARE SHOWN FOR ORCING ARE AS REQUIRED BY POLE IDDING PURPOSES ASSUME 24" DIA. 12" O.C.</li> <li>PIER, SEISMIC DESIGN CATEGORY</li> </ul>	
BOILER PLANT       Project Number 438-22-900         Building Number 12         MC       Drawing Number         MW       Drawn DRW       SB302	



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of tion lities	FRAMING DETAILS	100% CONSTRUCTION DOCUMENTS	DESIGN REPLA	ACE B
nent	Approved: Project Director		Location SIOUX FALL SIOUX FALLS, SD 5710	
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