

Architecture + Planning 2050 Underwood Road 615.477.3989

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FIRE STATION 3

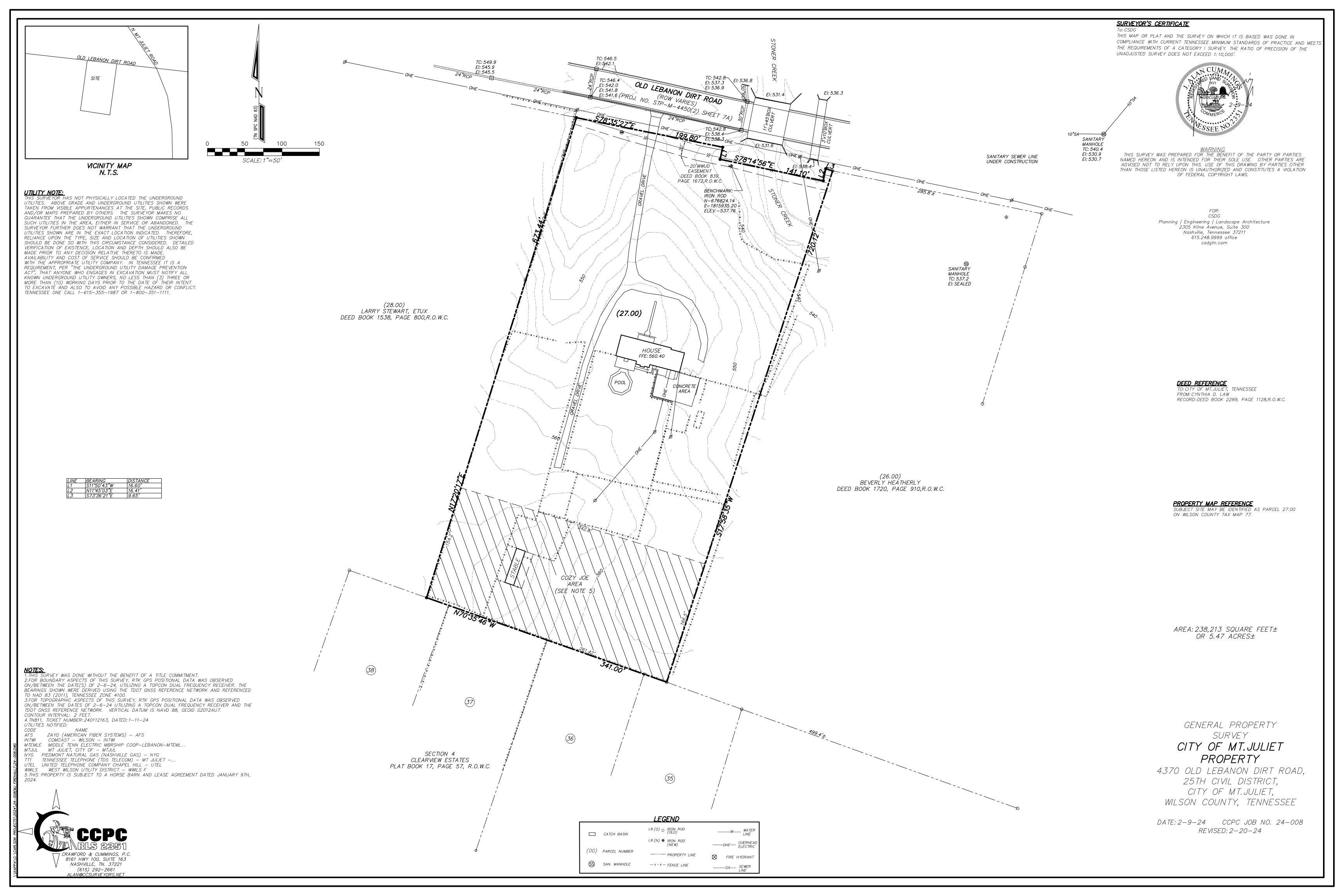
The City of Mt Juliet 4370 Old Lebanon Dirt Road Mt Juliet, TN 37122

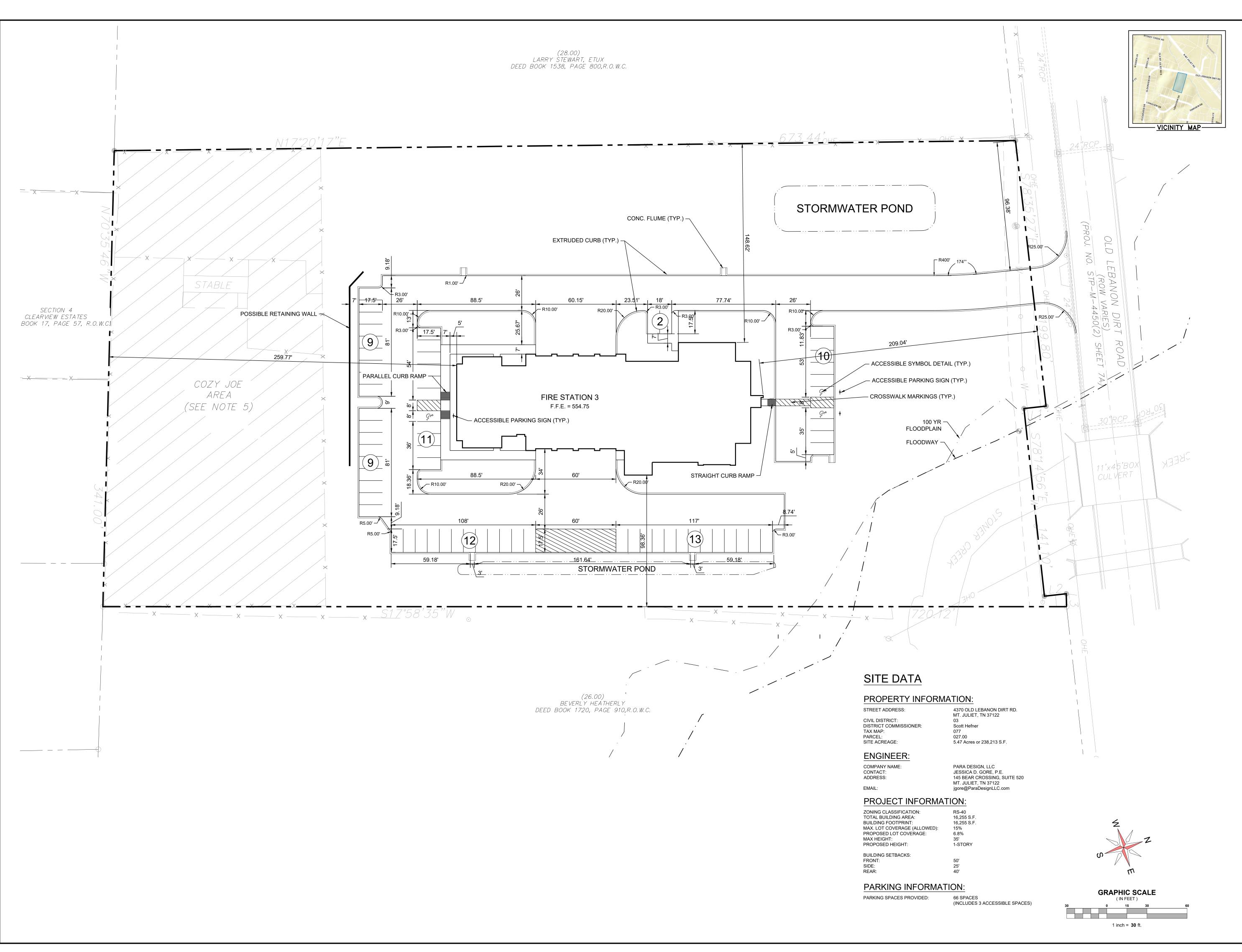


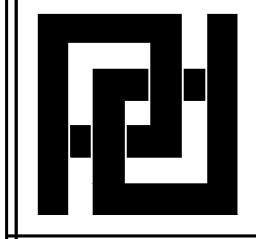
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FIRE STATION 3

Date Iss	ued:
07/24/	24
Revision	Dates







PARA DESIGN, LLC 145 BEAR CROSSING SUITE 520 Mt. Juliet, TN 37122 615.701.2941

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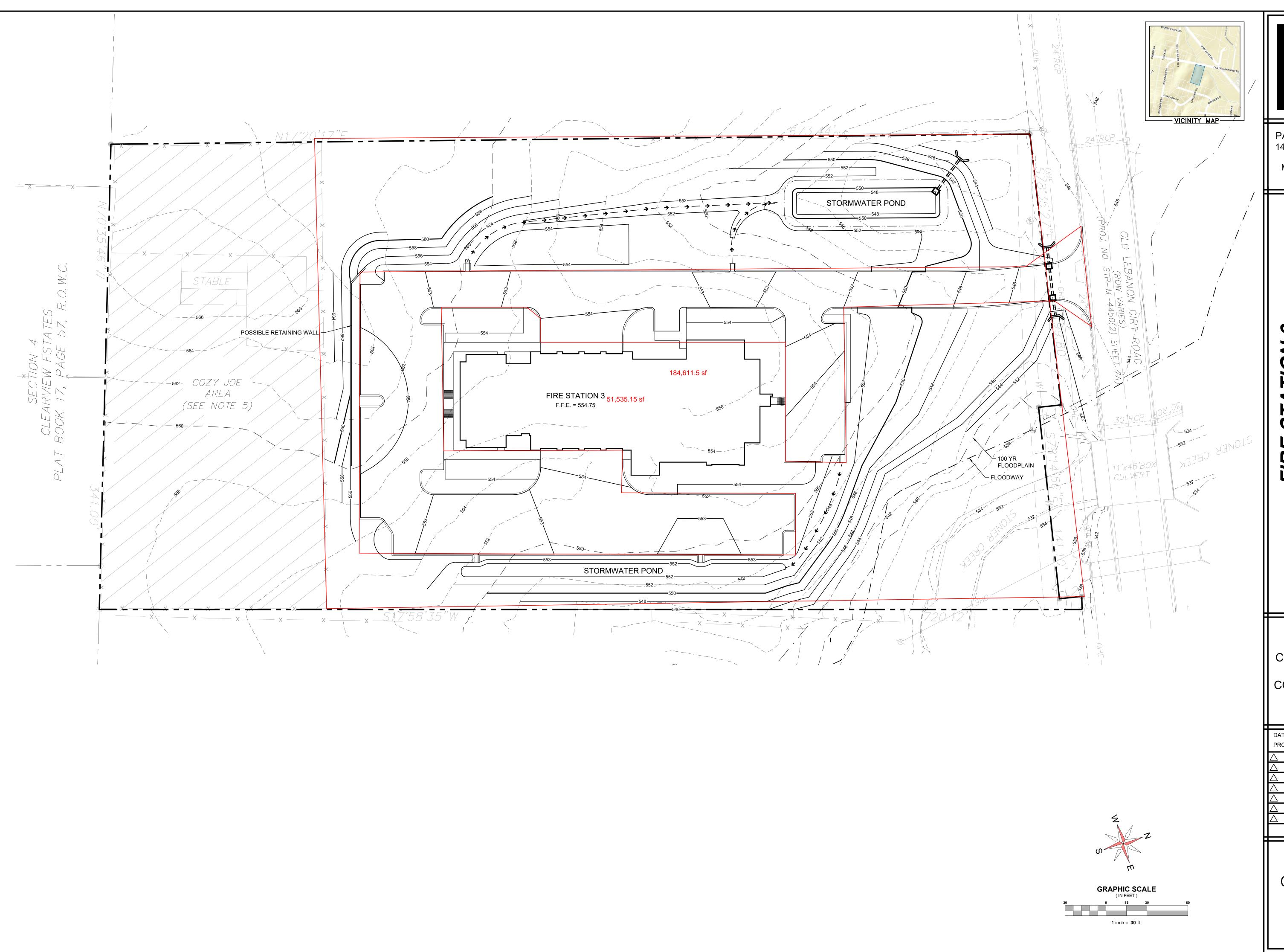
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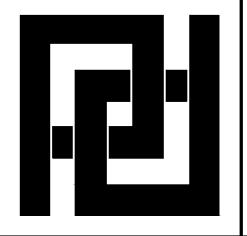
DATE: 07/22/24
PROJECT NO: 2024-14

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CONCEPT SITE PLAN

C-1





PARA DESIGN, LLC 145 BEAR CROSSING SUITE 520 Mt. Juliet, TN 37122 615.701.2941

LEBANON DIRT RD SON COUNTY, TENNESSEE OLD WILS 4370 ULIET,

CONCEPT PLAN NOT FOR CONSTRUCTION

DATE: 07/22/24 PROJECT NO: 2024-14

CONCEPT GRADING PLAN



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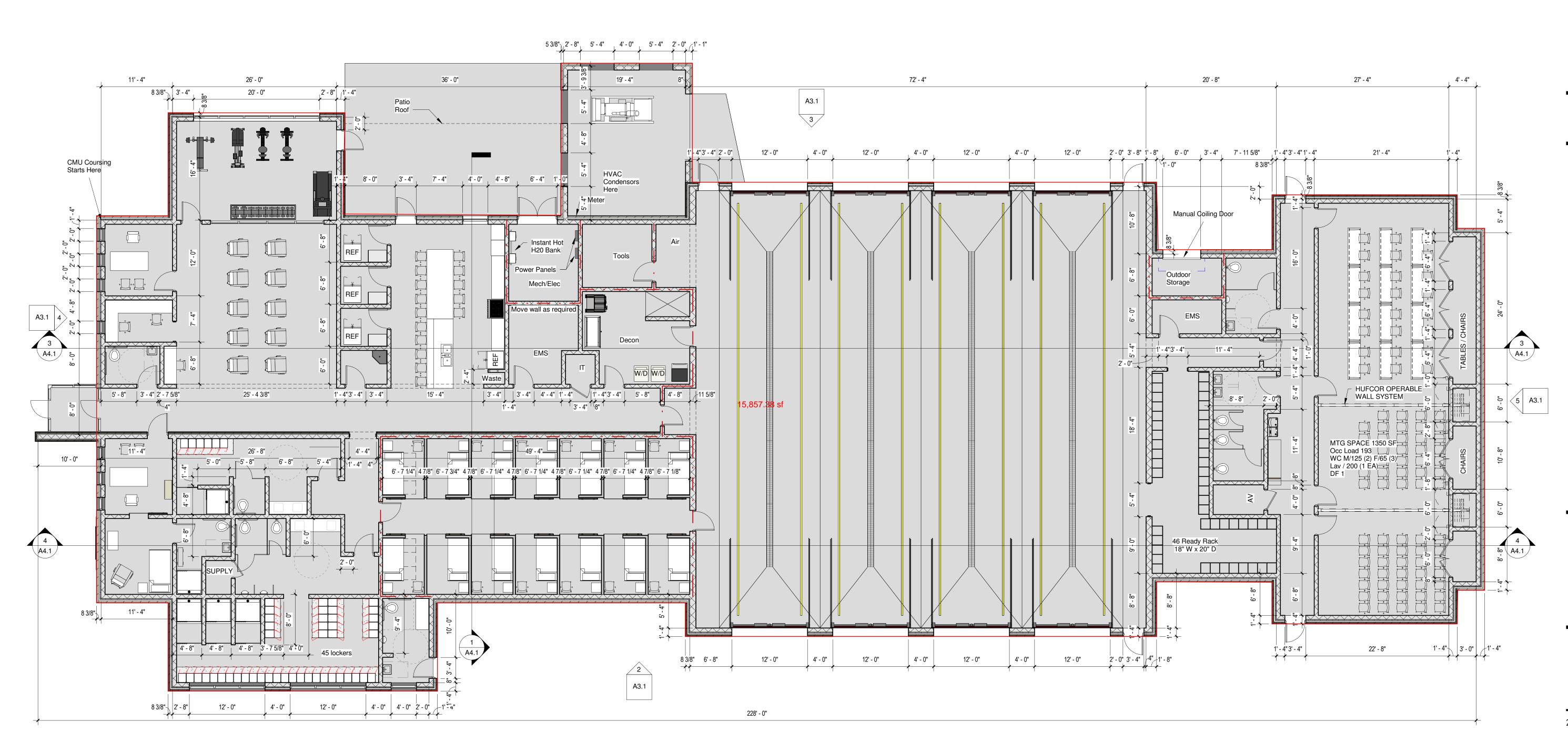
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REVISION DATA

7.22.2024 23014

FLOORPLAN







THE HALL GROUP, LLC

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CONCEPT

DESIGN

Old Lebanon Dirt Ros Mt Juliet, TN 37122 FIRE STATION 3

City of Mt Ju 4370

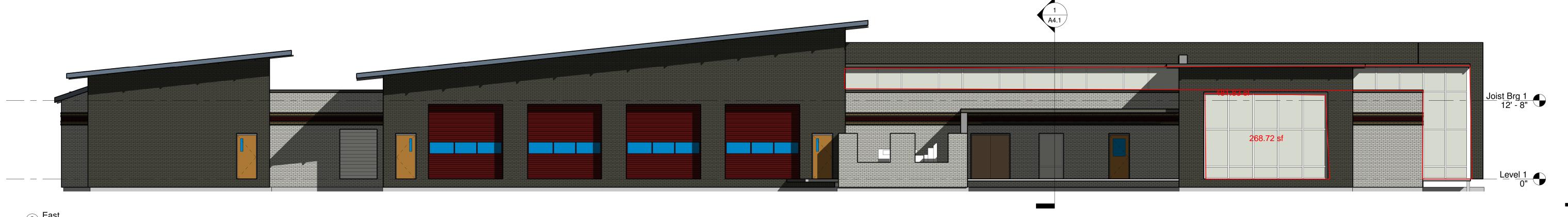
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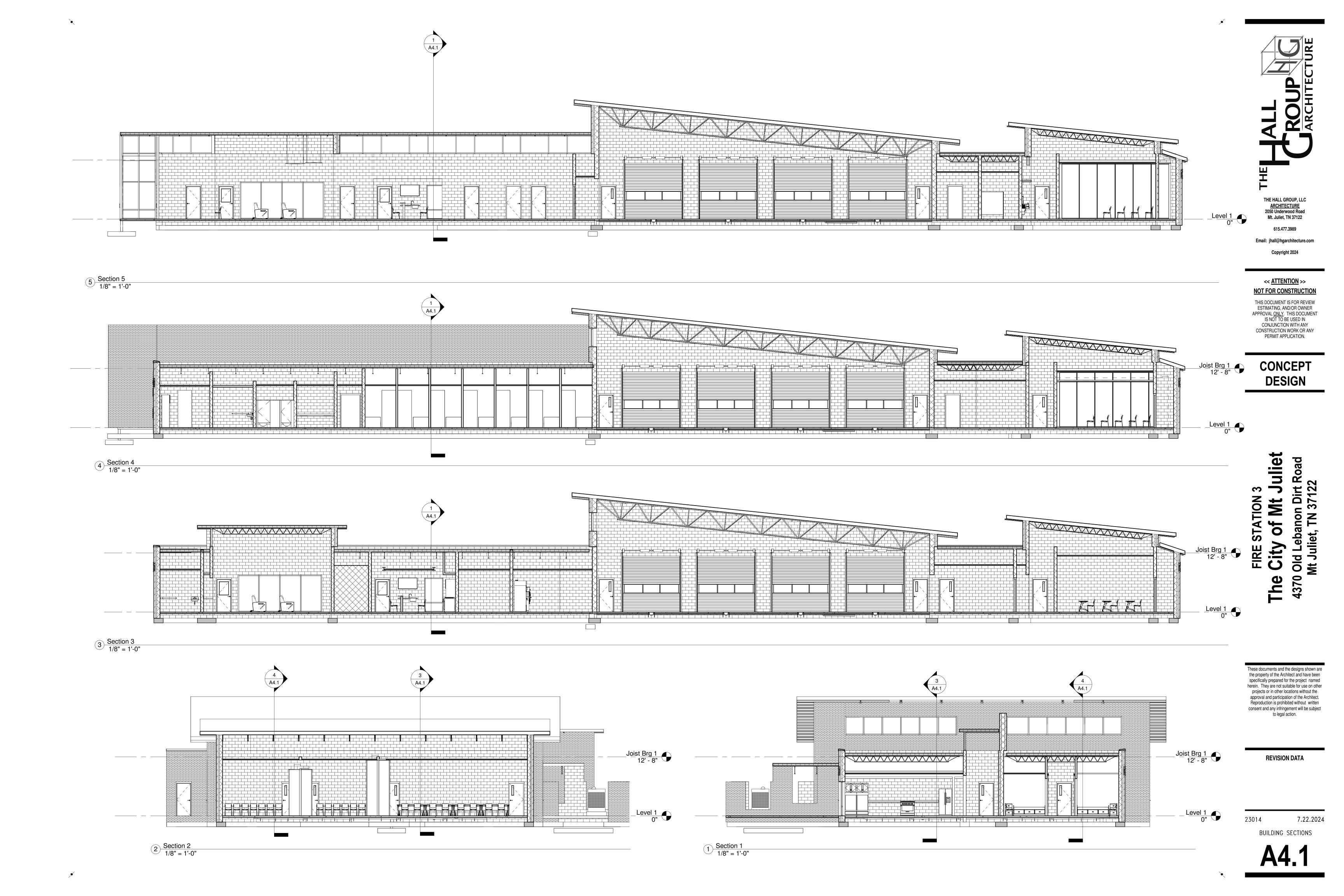
<u>Level 1</u> 23014 7.22.2024

Presentation Elevations

 $\begin{pmatrix} 4 \\ A4.1 \end{pmatrix}$ Joist Brg 1 12' - 8" 5 South 1/8" = 1'-0" 4 North 1/8" = 1'-0"









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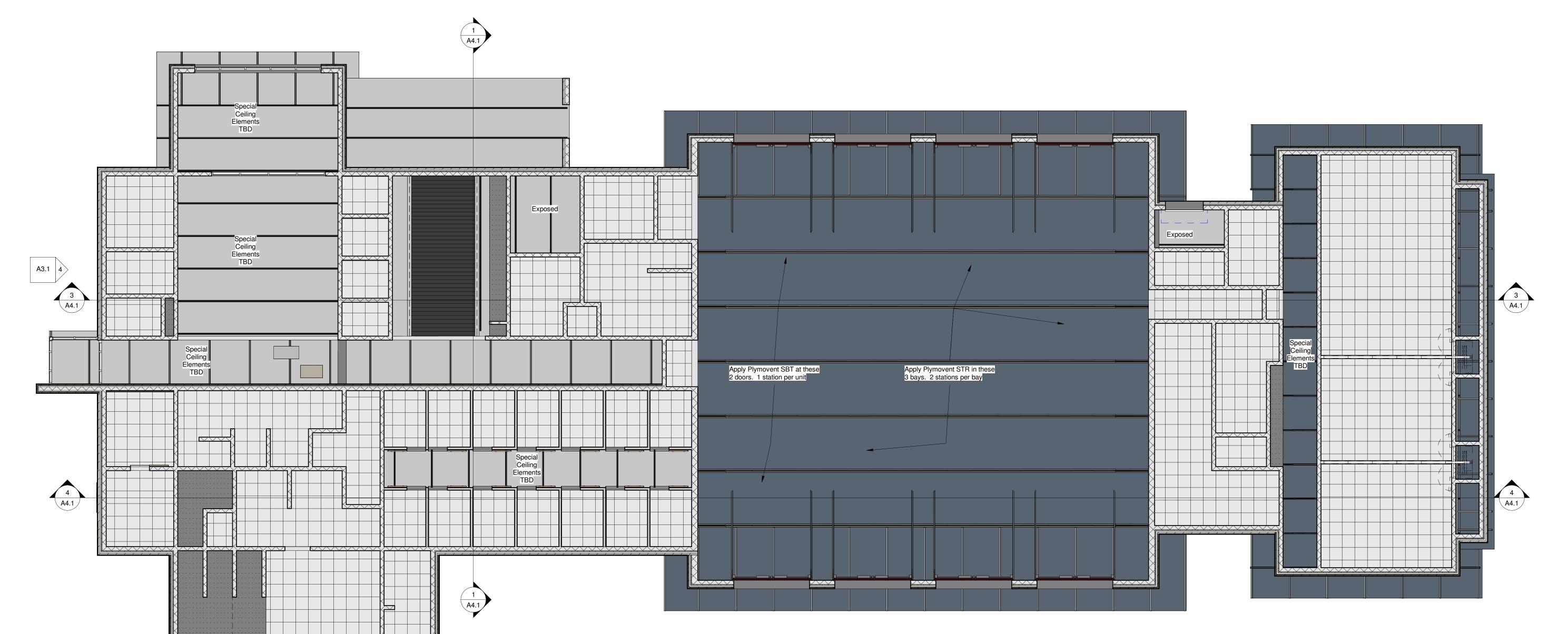
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7.22.2024 23014

REFLECTED CEILING



1.0 DESIGN AND CODE INFORMATION

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
- 2. VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
- 3. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT PDF COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY PDF SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- 4. COMPLETE SHOP DRAWINGS AND CALCULATIONS FOR COMPONENTS NOT DESIGNED BY THE ENGINEER OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A DESIGNATED PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FABRICATION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING COMPONENTS:

(X) STRUCTURAL STEEL CONNECTION DESIGNS (X) STEEL JOISTS (X) GLAZED SYSTEM (INCLUDING BUT NOT LIMITED TO WINDOW UNITS, CURTAIN WALLS. AND STOREFRONT (S) WHICH EXCEEDS TEN (10) FEET IN HEIGHT) (X) ROOFTOP EQUIPMENT AND ANCHORAGES

5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

7. DEAD LOADS:

SELF-WEIGHT OF STRUCTURE

LIVE LOADS: OFFICES: 100 PSF (INCLUDING PARTITIONS) REDUCIBLE PER CODE MECH: ROOFS: 20 PSF (REDUCIBLE PER CODE)

20 PSF

9. ROOF LOADS: GROUND SNOW LOAD: SNOW EXPOSURE Ce: SNOW IMPORTANCE I: THERMAL FACTOR Ct: FLAT ROOF SNOW LOAD: 10 PSF

10. WIND LOADS: BASIC WIND SPEED: CATEGORY IV BASIC WIND SPEED 116 MPH INTERNAL PRESSURE COEFFICIENT: ± 0.18 CLADDING LOAD: SEE DIAGRAMS ON _

11. RAIN LOADS: DESIGN LOAD: RAIN INTENSITY:

IN/HOUR

12. SEISMIC LOADS: RISK CATEGORY: IV SEISMIC IMPORTANCE le: .2 SEC SPECTRAL RESPONSE ACCELERATION Ss 1.0 SEC SPECTRAL RESPONSE ACCELERATION S1 SITE CLASS: ABCDEF **DESIGN SPECTRAL RESPONSE SDS:** DESIGN SPECTRAL RESPONSE SD1: SEISMIC DESIGN CATEGORY: ABCDEF RESISTING SYSTEM:

RESPONSE MODIFICATION FACTOR R: SYSTEM OVERSTRENGTH FACTOR Ω_0 = DEFLECTION AMPLIFICATION FACTOR Cd = SEISMIC RESPONSE COEFFICIENT Cs: SIMPLIFIED, EQUIVALENT LATERAL FORCE, MODAL ANALYSIS PROCEDURE: BASE SHEAR:

13. TORNADO SHELTER:

WIND SPEED: 250 MPH (RISK CATEGORY IV) WIND EXPOSURE: SHELTER ROOF: 100 PSF INTERNAL PRESSURE COEFFICIENT: ± 0.18 CLADDING LOAD: SEE DIAGRAM S

2.0 SPECIAL INSPECTIONS AND TESTING

1. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET S002.

3.0 STRUCTURAL OBSERVATIONS

 THE ENGINEER OF RECORD HAS BEEN EMPLOYED TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

4.0 FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON A REPORT MADE BY DATED (REPORT NO.

INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.

3. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.

4. RETAINING WALLS ARE DESIGNED FOR LATERAL PRESSURES:

 WALL (ACTIVE): 30 PCF BACKFILL WITH CLEAN #57 OR #67 STONE UNO. THE BACKFILL SHALL BE DRAINED WITH NO BUILDUP OF WATER PRESSURE BEHIND THE WALLS

BASEMENT WALLS ARE DESIGNED FOR LATERAL PRESSURES:

MINIMUM BELOW FINISHED GRADE.

BACKFILL WITH CLEAN #57 OR #67 STONE UNO. THE BACKFILL SHALL BE DRAINED WITH NO BUILDUP OF WATER PRESSURE BEHIND THE WALLS

5. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0"

6. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3-INCH-THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.

7. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS

8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE ADJACENT BUILDING FOUNDATIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITION AND TAKE ALL STEPS TO PROTECT THE EXISTING STRUCTURES DURING CONSTRUCTION.

5.0 REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318).

2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).

MATERIAL PROPERTIES – CONCRETE:

		CLASS EXPOSURE	F'c PSI MAX. at 28 DAYS	MAX.* W/C RATIO	TOTAL AIR SLUMP INCHES	NOM. MAX. CONTENT (±1.5%)	AGGREGATE SIZE
3.1	Cast-in-Place Concrete						
	A. Footings	C1	4,000	0.50	4	No Test	2"
	B. Drilled Piers	C1	4,000	0.50	6-8**	No Test	2"
	C. Pier Caps	C1	4,000	0.50	4	No Test	2"
	D. Grade Beams	C1	4,000	0.45	4	No Test	3/4"
	E. Columns						
	Int. Columns		5,000	0.45	3	No Test	3/4"
	Ext. Columns	F1, C1	5,000	0.45	3	5	3/4"
	F. Superstructure						
	Slabs, Beams						
	Int.		5,000	0.40	3	No Test	3/4"
	Ext.	F2, C2	5,000	0.40	3	6	3/4"
	G. Walls						
	Int. Walls		4,000	0.45	3	No Test	3/4"
	Ext. Walls	F1, C2	4,000	0.45	3	5	3/4"
	H. Slab-on-Grade						
	Int. Slab		4,000	0.45	4	No Test	1"
	Ext. Slab	F2, C2	4,500	0.40	4	6	1"
	I. Stairs, Landings, Lobbies						
	Int.		4,000	0.45	4	No Test	3/4"
	Ext.	F2, C2	4,500	0.40	4	6	3/4"
	J. All Other		4,000	0.45	4	5	3/4"
	K. Concrete Fill on Metal Deck (Lightweight and Normal) 116-117 PCF 140-150 PCF		4,000	0.45	4	3	3/4"
3.2	Other Concrete						
	A. Masonry Wall						
	Grout Fill		3,000		8 to 10	No Test	3/8"
	B. NSNS Grout		8,000			No Test	No. 4
	*Before adding water reducer						
	**After adding water reducer						

4. EXPOSURE CLASS SHALL BE FO, SO, PO, AND CO PER ACI 318 UNO.

5. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.

6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.

CLEAR CONCRETE COVER FOR REINFORCING STEEL:

GRADE BEAMS AND PIERS: 2" WALLS: 2" EXTERIOR FACES 3/4" INTERIOR FACES MASONRY WALLS: LOCATE IN CENTER OF WALL (UNO) SLAB ON GRADE: 3/4" TOP STEEL 1½" BOTTOM STEEL BEAMS AND COLUMNS: 1½" FORMED EDGES FOOTINGS: 2" FORMED EDGES 3" CAST AGAINST GROUND

8. CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 2-#5 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.

9. CONSTRUCTION JOINTS IN BEAMS, GIRDERS AND SLABS SHALL OCCUR AT MID-SPAN AND SHALL BE KEYED. IN ALL CASES THE LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. KEYWAYS SHALL BE ONE THIRD THE DEPTH OF THE MEMBER AND PLACED AT MID-DEPTH.

10. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE

11. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.

12. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA. THESE FLOOR FLATNESS CRITERIA ARE NOT APPLICABLE TO COMPOSITE STEEL CONSTRUCTION. SEE ARCHITECTURAL REQUIREMENTS FOR ADDITIONAL FLOOR FINISH INFORMATION:

SPECIFIED OVERALL F NUMBERS FLATNESS FF = 35 LEVEL FL = 25

MINIMUM LOCAL F NUMBERS

FLATNESS FF = 24 LEVEL FL = 17

13. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

6.0 CONCRETE MASONRY

1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/TMS 402 AND ACI 530.1/TMS 602.

2. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF NOT SHOWN IN ARCHITECTURAL DRAWINGS. PROVIDE CONTROL JOINTS AS FOLLOWS:

A. 24 FEET ON CENTER, HORIZONTAL MAXIMUM.

B. 12 FEET FROM CORNERS MAXIMUM. C. 8 INCHES (8" CMU) / 12 INCHES (12" CMU) FROM EDGE OF OPENING MAXIMUM. D. INTERSECTION OF LOAD-BEARING AND NON-LOAD-BEARING WALLS.

3. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM PRISM STRENGTH (F'M) OF 2000 PSI.

4. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "MORTAR AND GROUT FOR REINFORCED MASONRY, "ASTM C-476, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'M) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL)

5. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270.

6. MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.

7. ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOWELED 7 INCHES INTO BOND BEAMS AT TOP OF WALLS.

8. MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.).

9. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL.

7.0 STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION LRFD.

2. STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM

3. STRUCTURAL PIPE COLUMNS SHALL BE ASTM A-53, TYPE E OR S, GRADE B.

STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.

LATEST EDITION. STEEL JOISTS SHALL BE GRADE 50 STEEL

4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.

5. STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.

6. METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.

7. WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAGE.

8. MISCELLANEOUS ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS.

9. ANCHOR RODS AT COLUMN BASE PLATES SHALL BE ASTM F-1554 GRADE 55. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 16 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION. COLUMN ANCHOR RODS SHALL BE HELD IN PLACE BY TEMPLATES AND POSITIONED PRIOR TO CASTING CONCRETE.

10. FRAMED BEAM CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE REACTION SHOWN FOR THE ENDS OF BEAMS ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP ONE-HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL.

11. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.

12. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.

13. THE STEEL JOIST MANUFACTURER SHALL INVESTIGATE THE ROOF JOISTS FOR A NET UPLIFT FORCE OF 15 PSF AND FURNISH THE NECESSARY FRAMING TO ENSURE PROPER JOIST PERFORMANCE UNDER UPLIFT DUE TO WIND AS WELL AS GRAVITY LOADING CONDITIONS.

14. PROVIDE SPECIAL JOIST SEATS WHERE REQUIRED BY NARROW BEARING CONDITIONS.

15. PAINT ALL STRUCTURAL STEEL THAT DOES NOT RECEIVE SPRAY-ON FIREPROOFING WITH ONE COAT OF RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOPCOAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL, WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.

16. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL.

17. THE STRUCTURAL DESIGN OF STEEL STAIRS, LANDINGS AND GUARDRAILS (INCLUDING EMBEDS) SHALL BE PERFORMED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. CALCULATIONS AND SHOP DRAWINGS WITH THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL THE SUBMITTAL IS APPROVED. DESIGN LOADS SHALL BE AS SPECIFIED BY THE CONTRACT DOCUMENTS AND/OR THE APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.

18. STEEL JOIST AND JOIST GIRDER SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED ENGINEER IN THE PROJECT STATE CONFIRMING THE DESIGN OF JOISTS AND JOIST GIRDERS TO SJI SPECIFICATIONS AND FOR ALL LOADINGS SPECIFIED ON THE DRAWINGS SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE STRUCTURAL STEEL SUBCONTRACTOR AND GENERAL CONTRACTOR HAVE THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES.

8.0 POST-INSTALLED ANCHORS

EVALUATION REPORTS.

 UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE AND SEISMIC APPLICATIONS.

2. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS UNLESS APPROVED OTHERWISE BY THE ENGINEER.

3. PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR AND EMBEDS.

4. DRILL AND PREPARE HOLES AND INSTALL ANCHORS IN ACCORDANCE WITH

5. POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR IN ACCORDANCE WITH THE PROJECT STATEMENT OF SPECIAL INSPECTION AND THE ICC-ES REPORT.

UNLESS OTHERWISE NOTED IN THE ICC-ES REPORT, THE SPECIAL INSPECTOR SHALL INSPECT THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR AND

PERIODICALLY INSPECT INSTALLATION THEREAFTER. 6. MECHANICAL ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES193. ACCEPTABLE

MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

HILTI KWIK BOLT TZ2 (ICC-ES ESR 1917) HILTI KWIK HUS-EZ (ICC-ES ESR 3027) SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR 3037) SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-2713) DEWALT POWER – STUD + SP2 (ICC ESR-2713)

DEWALT SCREW-BOLT + (ICC ESR-3889)

ADHESIVE ANCHORS, INCLUDING REBAR, FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ADHESIVE ANCHOR SHALL BE INSTALLED INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT THAT HAS CURED FOR AT LEAST 21 DAYS. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE THE

HILTI HIT RE 500 V3 (ICC-ESR 3814) HILTI HIT-HY 200 ANCHOR RODS AND REINFORCING BAR (ICC-ES ESR 3187) SIMPSON STRONG-TIE SET-XP (ICC-ES ESR 2508) DEWALT PURE 110 + (ICC ESR-3298)

8. MECHANICAL ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC01. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY INCLUDE THE FOLLOWING:

HILTI KWIK BOLT 3 (ICC-ES ESR 1385) SIMPSON STRONG-TIE WEDGE-ALL (ICC-ES ESR 1396) DEWALT POWER- STUDS-SD1 (ICC ESR 2966)

9. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY INCLUDE THE FOLLOWING:

HILTI HIT-HY 270 (ICC-ES ESR 2682) SIMPSON STRONG-TIE SET-XP (IAPMO UES ER 265) DEWALT AC100 + GOLD (ICC ESR-3200)

9.0 MAINTENANCE STATEMENT

FOLLOWING:

1. STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND THE SERVICE LIFE AND TO ENSURE STRUCTURAL INTEGRITY FROM ENVIRONMENTAL EXPOSURE. A MAINTENANCE PROGRAM SHALL BE DEVELOPED BY THE BUILDING OWNER. THE PROGRAM SHALL INCLUDE SUCH ITEMS BUT NOT LIMITED TO THE FOLLOWING:

 PAINTING OF STRUCTURAL STEEL PROTECTIVE COATING FOR CONCRETE

 SEALANTS CAULKED JOINTS

EXPANSION JOINTS

CONTROL JOINTS SPALLS AND CRACKS IN CONCRETE

2. CONCRETE SURFACES SHALL BE CLEANED VIA PRESSURE WASHING, ETC. TO REMOVE SALT OR OTHER CHEMICALS.

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GENERAL NOTES

GENERAL:

THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE STRUCTURAL TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

- 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS.
- 2. ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- 3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
- 4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR WILL BE HIRED BY THE OWNER, BUT CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

- 1. PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
- 2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
- 3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
- 4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
- 5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
- 6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

SPECIAL INSPECTOR'S RESPONSIBILITIES:

THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER LICENSED IN AND PRACTICING IN THE STATE OF TENNESSEE. SPECIAL INSPECTORS SHALL BE A LICENSED ENGINEER IN THE STATE OF TENNESSEE OR IS PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TENNESSEE AND HAS A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE 2012 IBC. THE SPECIAL INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT; TWO TO THE ARCHITECT AND ONE TO THE STRUCTURAL ENGINEER OF RECORD.

THE SPECIAL INSPECTOR FOR THIS PROJECT IS AS FOLLOWS:

SOILS AND FOUNDATIONS:

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS TO VERIFY THE FOLLOWING:

- 1. STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE PROJECT GEOTECHNICAL.
- 2. OBSERVE PROOFROLLING.
- 3. PERFORM FIELD DENSITY TEST TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED.
- 4. FOUNDATION BEARING CAPACITY OF ALL FOOTINGS.

CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT MANUFACTURER'S DATA FOR TENSILE AND COMPRESSIVE SPLICES.
- ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:
- A. TYPE AND QUANTITIES OF MATERIALS
- B. SLUMP C. AIR CONTENT
- D. FRESH UNIT WEIGHT
- E. AGGREGATES SIEVE ANALYSIS
 F. DESIGN COMPRESSIVE STRENGTH
- G. LOCATION OF PLACEMENT IN STRUCTURE H. METHOD OF PLACEMENT
- I. METHOD OF PLACEMENT

 I. METHOD OF CURING
- J. SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS
- SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
- 4. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY-MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. VERIFY GRADE, QUANTITY, LOCATION, AND THE PLACEMENT OF REINFORCING STEEL AND POST TENSION CABLES PRIOR TO CONCRETE PLACEMENT.
- 2. EXAMINE CONCRETE IN TRUCK TO VERIFY THAT CONCRETE APPEARS PROPERLY
- 3. PERFORM A SLUMP TEST AS DEEMED NECESSARY FOR EACH CONCRETE LOAD.
 RECORD IF WATER OR ADMIXTURES ARE ADDED TO THE CONCRETE AT THE JOB
 SITE. PERFORM ADDITIONAL SLUMP TESTS AFTER JOB SITE ADJUSTMENTS.
- 4. INSPECT SIZE, POSITIONING AND EMBEDMENT OF ANCHOR RODS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS.
- INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION, VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
- 6. INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES.
- 7. MOLD FIVE SPECIMENS PER SET FOR COMPRESSIVE STRENGTH TESTING; ONE SET FOR EACH 50 CUBIC YARDS OF EACH MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH SET MOLDED, RECORD:
- A. SLUMP B. AIR CONTENT
- C. UNIT WEIGHT
- D. TEMPERATURE, AMBIENT, AND CONCRETE
- E. LOCATION OF PLACEMENT
 F. ANY PERTINENT INFORMATION, SUCH AS AD
- F. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION OF ADMIXTURES, ETC.
- PERFORM ONE 7-DAY AND TWO 28-DAY COMPRESSIVE STRENGTH TESTS. (USE TWO AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTHS DO NOT APPEAR ADEQUATE.)
- 8. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE DESIGN COMPRESSIVE STRENGTH, LOCATION OF CONCRETE PLACEMENT IN STRUCTURE, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK.

NON-SHRINK GROUT UNDER STEEL BASE PLATES:

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. COMPRESSIVE STRENGTH TESTS PER ASTM C109.
- NUMBER OF TEST: ONE TEST FOR EACH TEN BAGS OF GROUT USED OR MINIMUM OF ONE TEST FOR EACH DAY OF GROUTING.
- 3. CUBE SIZE: 2-INCH X 2-INCH.
- 4. TEST SCHEDULE: ONE CUBE AT 3 DAYS, TWO CUBES AT 7 DAYS, 3 CUBES AT 28 DAYS.

STRUCTURAL STEEL:

- CONTRACTOR SHALL PERFORM THE FOLLOWING:
- 1. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
- 2. IF FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.
- 3. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.
- 4. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- INSPECTION OF STEEL FRAMING TO VERIFY COMPLIANCE WITH DETAILS
 SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS
 INCLUDING MEMBER LOCATIONS, BRACING, CONNECTION DETAILS, ETC.
- 2. PROVIDE CONTINUOUS INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
- A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. ULTRASONICALLY INSPECT 100% OF THE COMPLETE PENETRATION WELDS.
 B. MULTI-PASS FILLET WELDS AND SINGLE-PASS FILLET WELDS GREATER
- THAN 5/16". C. SLIP CRITICAL BOLTED CONNECTIONS.

PRIOR TO PLACEMENT OF CONCRETE.

- 3. PROVIDE PERIODIC INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
- A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.
 B. MATERIAL VERIFICATION OF WELD FILLER MATERIAL.
 C. VERIFICATION OF ANCHOR ROD SIZE, CONFIGURATION, AND EMBEDMENT
- D. VISUALLY INSPECT ALL BOLTED CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRIOR TO VISUAL AND PHYSICAL TESTING, TENSION TESTING USING A CALIBRATION DEVICE (SKIDMORE-WILHELM) MUST INDICATE TENSIONS AT LEAST 5% IN EXCESS OF THE AISC MINIMUM. STRUCTURAL STEEL ERECTOR SHALL SUPPLY THE TENSION CALIBRATION DEVICE. TEST A MINIMUM OF 10% OF THE BOLTED CONNECTIONS.
- E. VISUALLY INSPECT ALL FIELD-WELDED CONNECTIONS. VISUAL INSPECTION OF WELDED JOINTS INCLUDES PERIODIC EXAMINATION OF
- F. VERIFY STUD SHEAR CONNECTORS SPACING AND LOCATION. VISUALLY INSPECT WELDING OF STUD SHEAR CONNECTORS.

4. WELD INSPECTIONS TO INCLUDE THE FOLLOWING:

- A. WELD INSPECTIONS SHALL BE IN ACCORDANCE WITH AWS D1.1.B. REVIEW AND VERIFY COMPLIANCE OF WRITTEN WELDING PROCEDURES WITH
- AWS REQUIREMENTS.
 C. VERIFY THAT WELDING PROCEDURES ARE BEING ADHERED TO DURING FIELD
- WELDING.
 D. VERIFY WELDER QUALIFICATIONS.
 E. USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF WELDS. THE INSPECTOR MAY USE GAMMA RAY, MAGNAFLUX, TREPANNING, SONICS OR

ANY OTHER AID TO VISUAL INSPECTION THAT THE SPECIAL INSPECTOR

MAY DEEM NECESSARY TO BE ASSURED OF THE ADEQUACY OF THE WELDING.

F. KEEP A SYSTEMATIC RECORD OF ALL WELDS THAT INCLUDES, IN ADDITION
TO OTHER REQUIRED RECORDS, THE IDENTIFICATION MARKS OF WELDERS,
A LIST OF DEFECTIVE WELDS, AND THE MANNER OF CORRECTING DEFECTS.

STEEL JOISTS:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
- 2. IF FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

- 1. VISUAL INSPECTION OF BOLTED AND WELDED CONNECTIONS.
- 2. VERIFY INSTALLATION OF BRIDGING AND BRACES.
- 3. VERIFY CONNECTIONS FOR TOP AND BOTTOM CHORDS.4. VERIFY REINFORCEMENT OF MEMBERS FOR CONCENTRATED LOADS.
- 5. VERIFY PROPER BEARING.

STEEL DECK:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.
- SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:
- 1. VERIFY DECK PROFILE, THICKNESS, GENERAL ALIGNMENT AND DECK LAP.
- 2. VERIFY WELDS OR SCREWS FOR SIZE AND PATTERN.
- 3. VERIFY SPACING AND TYPE OF SIDELAP ATTACHMENTS.

4. VERIFY INSTALLATION OF DECK CLOSURES.

STRUCTURAL MASONRY (CLASS C):

CONTRACTOR SHALL PERFORM THE FOLLOWING:

2. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI

1. SUBMIT MANUFACTURER'S DATA FOR TENSILE AND COMPRESSIVE SPLICER'S.

3. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY-MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTION TO VERIFY THE FOLLOWING:

- 1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
- A. PROPORTIONS OF SITE-PREPARED MORTAR AND PRESTRESSING GROUT.
 B. CONSTRUCTION OF MORTAR JOINTS.
 C. LOCATION OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORS.
- 2. THE INSPECTION PROGRAM SHALL VERIFY:
- A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.
- B. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT.
 C. PLACEMENT OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES FAHRENHEIT) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES FAHRENHEIT).
- 3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
- A. CLEANLINESS OF GROUT SPACE.
- B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.C. PROPORTIONS OF SITE-PREPARED GROUT.
- D. CONSTRUCTION OF MORTAR JOINTS.
- 4. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.

SPECIAL INSPECTOR SHALL PERFORM CONTINUOUS INSPECTIONS TO VERIFY THE FOLLOWING:

- 1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
- A. GROUT SPACE PRIOR TO GROUTING.

OTHER CONSTRUCTION.

BE OBSERVED.

- 2. THE INSPECTION PROGRAM SHALL VERIFY:
- A. WELDING OF REBAR.
 B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS
 OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR
- C. APPLICATION AND MEASUREMENT OF PRESTRESS FORCE.
- GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.

4. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, AND/OR PRISMS SHALL

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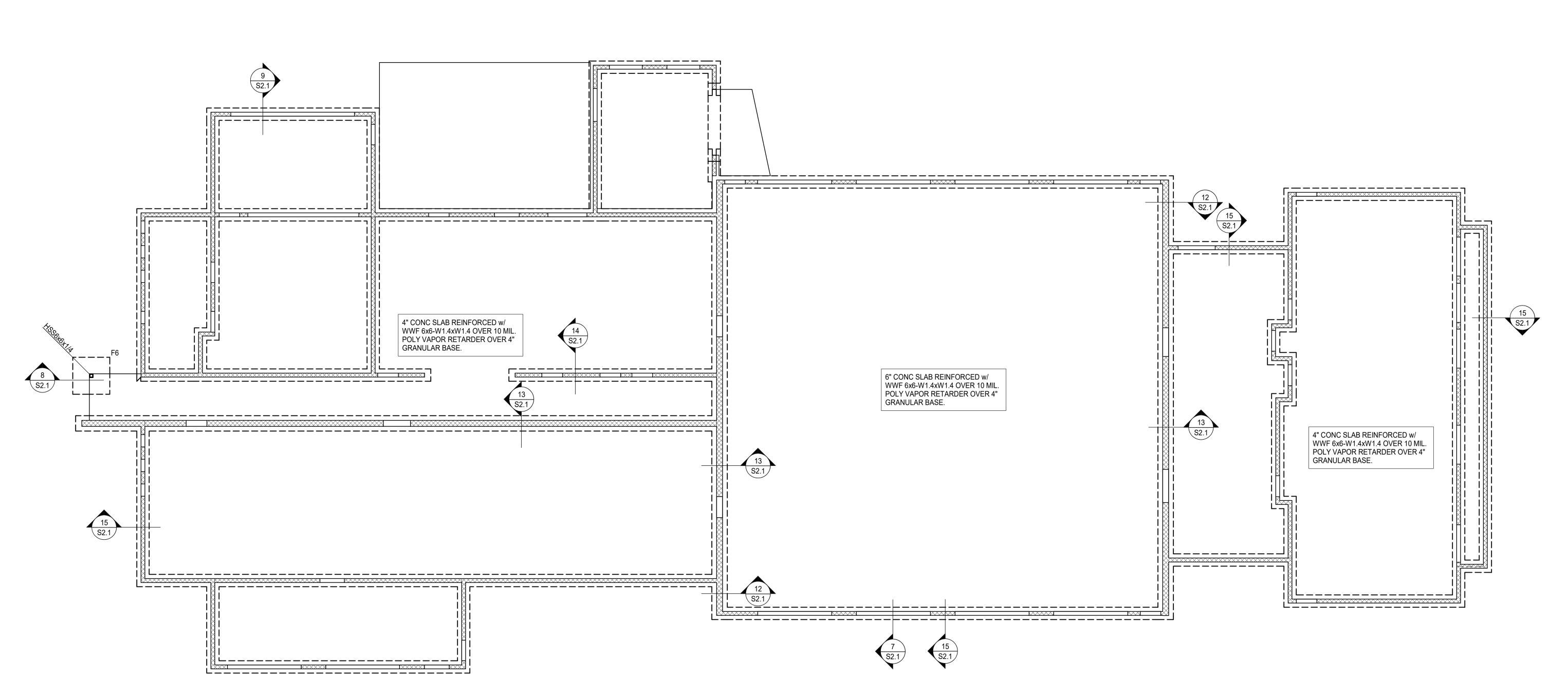
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QUALITY ASSURANCE PLAN

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

NOTES:

1) TOP OF INTERIOR FTG. = F.F.E. -8" U.N.O. 2) TOP OF EXTERIOR FTG. = F.F.E. -16" OR 1'-0" BELOW EXTERIOR GRADE WHICHEVER IS LOWER U.N.O. 3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY. 4) SEE ARCH. DWG FOR ANY LOCATIONS AND OR

DIMENSIONS NOT SHOWN. 5) SEE DETAIL ?/S? FOR SLAB CONTROL JOINTS. 6) DOWELS SHOWN ON PLANS INDICATE GROUT FILLED REINFORCED CORES. (SEE DETAIL ?/S?) or in other locations without the

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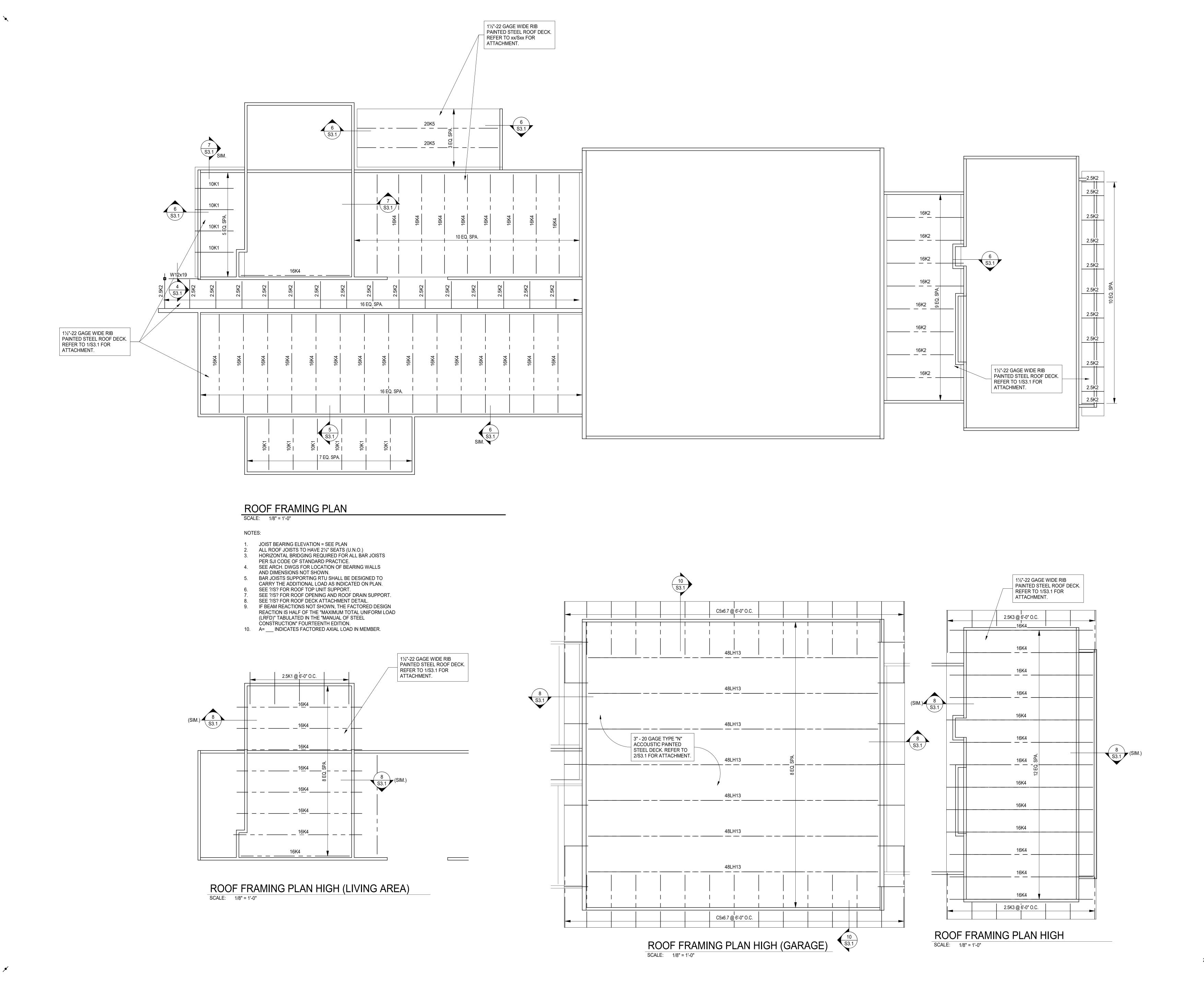
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