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E601 ELECTRICAL ONE-LINE DIAGRAM E701 ELECTRICAL SPECIFICATIONS E702 ELECTRICAL SPECIFICATIONS FA000 FIRE ALARM LEGENDS AND GENERAL NOTES 2100 Central St, Suite 01C FA101.1 FIRE ALARM FIRST FLOOR PLAN - WEST PH. 312.492.6501 FA101.2 FIRE ALARM FIRST FLOOR PLAN - EAST FA102.1 FIRE ALARM SECOND FLOOR PLAN - WEST **FOUNDATIONS** FA102.2 FIRE ALARM SECOND FLOOR PLAN - EAST BSE STRUCTURAL ENGINEERS FA701 FIRE ALARM SPECIFICATIONS

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### PROJECT TEAM

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BSE STRUCTURAL ENGINEERS

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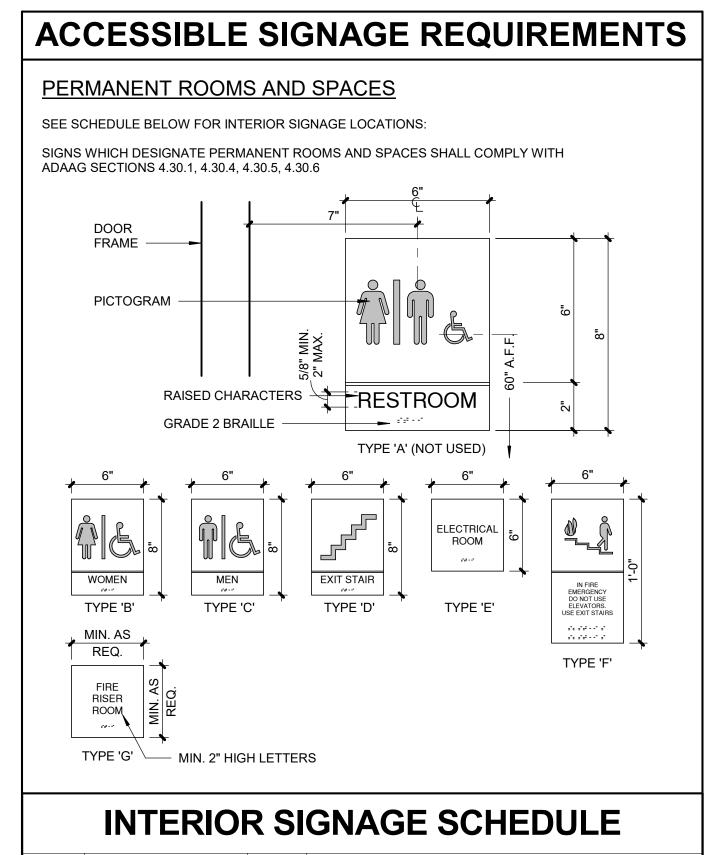
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FIRE PROTECTION HENDERSON ENGINEERS 8345 Lenexa Dr, Suite 300 Lenexa, Kansas 66214 PH. 913.742.5000





#### NO. **ROOM NAME** TYPE SIGN TEXT FIRE RISER ROOM FIRE RISER ROOM 106.A E ELETRICAL ROOM ELECTRICAL 107.A ELECTRICAL E ELETRICAL ROOM F IN FIRE EMERGENCY DO NOT USE ELEVATOR USE EXIT STAIR ELEVATOR WEST STAIR 2ND FLOOR D EXIT STAIR EAST STAIR 2ND FLOOR D EXIT STAIR 205.A WOMEN'S RESTROOM 206.A MEN'S RR MEN'S RESTROOM E ELETRICAL ROOM ELECTRICAL a. CHARACTERS SHALL BE RAISED MINIMUM 1/32" CHARATERS SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE CHARACTERS SHALL BE UPPER CASE & SANS SERIF OR SERIF TYPESTYLE CHARACTERS SHALL BE A MINIMUM OF 5/8" HIGH AND MAXIMUM 2" HIGH SIGN TYPE 'G' CHARACTERS TO BE 2" HIGH AS REQUIERD BY LOCAL FIRE DEPT. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTORGRAM AS INDICATED. THE BORDER DIMENSION OF THE PICTORGRAM SHALL BE 6" MIN. IN HEIGHT

CHARACTERS AND BACKGROUND SHALL BE EGGSHELL, MATTE OR OTHER NON-

IF NO WALL SPACE EXISTS ON THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE

GLARE FINISH AS RECOMMENDED BY THE SIGN MANUFACTURER. BACKGROUND SHALL CONSIST OF 1/4" ACRYLIC, COLOR TO MATCH SW 7068 "GRIZZLE GREY" CHARACTERS AND SYMBOLS SHALL BE WHITE MOUNT AT 60" ABOVE FINISH FLOOR TO THE CENTER OF SIGN

MOUNT ON WALL ADJACENT TO THE LATCH SIDE OF THE DOOR

LEAF DOORS, MOUNT ON THE NEAREST ADJACENT WALL

**DIRECTIONAL INFORMATION** 

MATERIAL AND FINISH

OTHER SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL COMPLY WITH ADAAG SECTIONS: 4.30.1, 4.30.2, 3.30.3, 4.30.5

#### TWO-WAY COMMUNICATION DEVICE SIGNAGE

DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM. INSTRUCTIONS FOR SUMMONING ASSISTANCE CIA THE TWO-WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO EACH TWO-WAY COMMUNICATION SYSTEM. EACH SIGN SHALL COMPLY WITH ICC A117.1 FOR VISUAL CHARACTERS. MOUNTING LOCATION OF SIGNAGE AND DEVICE SHALL BE PER 4/A6.02.

# DRAWING SYMBOLS LEGEND

EXISTING CONSTRUCTION TO REMAIN 

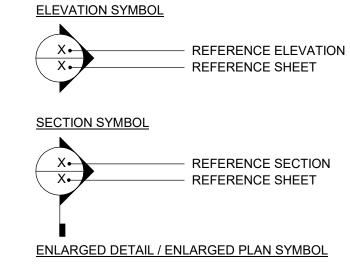
NEW CONSTRUCTION

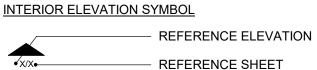
WALL TYPE DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DRAWING A0.02 FOR CONSTRUCTION REQUIREMENTS.

REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR FINISHES.

**ROOM NAME AND NUMBER -**

DOOR AND FRAME DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DOOR AND FRAME SCHEDULE FOR REQUIREMENTS.





REFERENCE DETAIL

REFERENCE SHEET

### FINISH DESIGNATION SYMBOL

XX-1 WALL FINISH DESIGNATION XX-1- BASE FINISH DESIGNATION LIMITS OF WALL AND BASE FINISHES

REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR DESCRIPTIONS.

FLOOR FINISH DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR DESCRIPTIONS. **REVISION NOTE** 

**EXTERIOR FINISH DESIGNATION -**REFERENCE ELEVATIONS FOR LOCATIONS REFERENCE EXTERIOR MATERIAL LEGEND FOR DESCRIPTIONS.

**RESTROOM ACCESSORY DESIGNATION -**

HANDLE IS 46" A.F.F.

GYPSUM BOARD CONTROL JOINT -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DETAIL 13/A7.10 FOR CONSTRUCTION REQUIREMENTS.

CONCRETE MASONRY CONTROL JOINT -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DETAIL 17/A7.10 FOR CONSTRUCTION REQUIREMENTS.

WALL MOUNTED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENMFG.COM, MODEL MP10 W/B2 MOUNTING BRACKET, REFERENCE FLOOR PLAN(S) FOR LOCATIONS. MOUNT SO CENTERLINE OF EXTINGUISHER IS 46" A.F.F.

FULLY-RECESSED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENMFG.COM OR APPROVED EQUAL: ARCHITECTURAL SERIES, MODEL # AL-2409-R2. ALUMINUM, FULLY-RECESSED, SOLID DOOR WITH RECESSED HANDLE, ENGRAVED VERTICAL LETTERS WITH NO BACKFILL "FIRE EXTINGUISHER" ON DOOR. CABINET TO BE PROVIDED WITH MP10 FIRE EXTINGUISHER AND MANUFACTURER'S STANDARD MOUNTING BRACKET. MOUNT SO CENTERLINE OF CABINET

# **GENERAL NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS OF THE APPLICABLE CODE INDICATED IN THE BUILDING SUMMARY COLUMN AND ALL LOCAL CODES PRESENTLY IN EFFECT UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
- ALL NEW CONSTRUCTION SHALL COMPLY W/THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE (INCLUDES ICC A117.1 PER IBC)
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND ARRANGE FOR ALL REQUIRED INSPECTIONS.
- UTILITIES BETWEEN CIVIL & MEP DRAWINGS. THE CONTRACTOR SHALL ALSO CONTACT ALL APPLICABLE UTILITY COMPANIES & PROVIDE CONDUIT & OTHER FACILITIES AS REQUIRED. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING BUILDING & SITE

- & CONDITIONS ON THE JOB SITE PRIOR TO THE BIDDING OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. IN CASES OF DISCREPANCY CONCERNING DIMENSIONS, QUANTITIES AND LOCATION, THE CONTRACTOR SHALL, IN WRITING, CALL TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES BETWEEN SPECIFICATIONS, PLANS, DETAILS OR SCHEDULES. THE ARCHITECT WILL THEN INFORM THE CONTRACTOR, IN WRITING, WHICH DOCUMENT TAKES PRECEDENCE. THERE SHALL BE NO ADJUSTMENT TO THE COST OR TIME OF THE WORK RESULTING FROM CLARIFICATION OF SUCH DISCREPANCIES.
- DIMENSIONS ON DRAWINGS ARE SHOWN TO FINISHED FACE OF WALLS AND PARTITIONS OF EXISTING OR NEW CONSTRUCTION UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS AND ALL OTHER VERTICAL DIMENSIONS ARE TO THE FINISHED FLOOR SURFACE UNLESS OTHERWISE NOTED.
- ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS. PRODUCT DATA, OR SAMPLES FOR CASEWORK, FINISHES, DOORS, FRAMES, HARDWARE, MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, AND OTHER ITEMS REQUIRING ARCHITECT'S REVIEW FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND FOR ALL ITEMS WHICH ALLOWED CONTRACTOR OPTIONS. PRIOR TO FORWARDING TO THE ARCHITECT FOR REVIEW. THESE SUBMITTALS MUST BE REVIEWED BY THE CONTRACTOR FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL AFFIX A STAMP TO SUBMITTAL INDICATING HIS REVIEW. SUBMITTALS FORWARDED WITHOUT A STAMP WILL BE RETURNED. ALL SUBMITTALS MUST BE REVIEWED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST FAULT OF ANY MATERIAL OR WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION OR ACCEPTANCE. FAULTY WORK SHALL BE REPLACED OR REPAIRED AS REQUIRED AT NO COST TO THE OWNER.
- ALL CHANGES PROPOSED DURING CONSTRUCTION WHICH RESULT IN A CHANGE TO THE CONTRACT TIME AND/OR SUM SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING AND APPROVED BY THE ARCHITECT AND OWNER BEFORE SUCH WORK SHALL COMMENCE.
- CONTRACTOR SHALL COORDINATE CLEAR OPENINGS FOR ALL APPLIANCES PRIOR TO CONSTRUCTION OF CASEWORK.
- CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-RETARDANT TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
- CONTRACTOR SHALL COORDINATE ALL LOCK AND LATCH SETS AND FINAL KEYING WITH OWNER, DOUBLE KEYED LOCKS ARE NOT PERMITTED ON ANY REQUIRED OR MARKED EXIT. MATCH EXISTING KEYING SYSTEM IF ONE IS EXISTING.
- 14. ALL DOOR HARDWARE ON EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT.
- 15. CONTRACTOR SHALL PREPARE ALL NEW AND EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURER'S
- RECOMMENDATIONS FOR THE SUBSTRATE & FINISH BEING APPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONSTRUCTION INDICATED TO REMAIN AND SHALL REPAIR AND/OR REPLACE ALL AREAS AND/OR MATERIALS DAMAGED DURING CONSTRUCTION AT A MINIMUM TO THE CONDITION WHICH
- EXISTED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE FINAL QUANTITY AND LOCATIONS OF FIRE EXTINGUISHERS WITH THE FIRE DEPARTMENT AND/OR BUILDING DEPARTMENT. SEE
- SYMBOLS LEGEND FOR TYPE OF EXTINGUISHER. 18. ALL CONSTRUCTION MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE
- DEVELOPED RATING OF 50. 19. ALL PIPING, LOW VOLTAGE WIRE AND CABLE, OPTICAL FIBER, PNEUMATIC TUBING, AND ALL DUCT AND DUCT COVERINGS, LININGS AND CONNECTORS INSTALLED WITHIN PLENUMS

MUST BE RATED FOR PLENUM USE.

- 20. TENANT SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF VOICE AND DATA CABLING AND EQUIPMENT.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE AUTOMATIC SPRINKLER SYSTEM. THE DESIGN SHALL BE PER NFPA REQUIREMENTS.
- 22. ALL NEW GLASS AND GLAZING LOCATED IN HAZARDOUS LOCATIONS AS DEFINED IN IBC SECTION 2406.3 SHALL MEET THE REQUIREMENTS FOR SAFETY GLAZING AS DEFINED IN IBC
- 23. IF THE CONTRACTOR FAILS TO SUBMIT A MATERIAL FOR APPROVAL, THE MATERIAL MAY BE REQUIRED TO BE REMOVED BY THE CONTRACTOR EITHER BY DIRECTION OF THE OWNER OR ARCHITECT.
- 24. ALL HIGH-PILED STORAGE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE APPLICABLE EDITION OF THE INTERNATIONAL FIRE CODE.
- 25. THE CONTRACTOR IS TO PROVIDE AS BUILT DRAWINGS IN HARD COPY & AN ELECTRONIC AUTOCAD FILE TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
- 26. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES, DUCTWORK, & STRUCTURE PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES, DUCTWORK, AND STRUCTURE. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S

# PROFESSIONAL SERVICES DISCLAIMER

DATE

10/25/2019

THIS DISCLAMER SERVES NOTICE OF ACCEPTANCE OF RESPONSIBILITY AND DISCLAIMER OF RESPONSIBILITY AS TO THE CONTRACT DOCUMENTS PREPARED FOR

19050.01, PARAGON STAR - LOT 9 - BUILDING 2 BY FINKLE + WILLIAMS, INC. THE UNDERSIGNED ARCHITECT, AND FINKLE + WILLIAMS, INC., ARE RESPONSIBLE FOR PREPARATION OF ONLY THE NOTED CONSTRUCTION DRAWINGS BELOW:

<u>TITLE</u>

COVER SHEET

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THE UNDERSIGNED ARCHITECT AND FINKLE + WILLIAMS DISCLAIM RESPONSIBILITY FOR ALL OTHER CONSTRUCTION DOCUMENTS, AND ANY OTHER SPECIFICATIONS, REPORTS, ESTIMATES, SHOP DRAWINGS, ETC. RELATING TO OR INTENDED TO BE USED FOR ANY PART OF THE ARCHITECTURAL OR ENGINEERING PROJECT, INCLUDING ANY GEOTECHNICAL ENGINEERING SERVICES, OR ENVIRONMENTAL REPORTS.

THIS NOTICE IS EXECUTED BY THE UNDERSIGNED AND AUTHENTICATED BY THE ARCHITECTURAL SEAL OF THE PERSON PREPARING THS NOTICE.

ARCHITECT: DAVID A. WILLIAMS

# **BUILDING SUMMARY**

<u> 2018 EDITIC</u>

2000 EDITIO

**GENERAL BUILDING INFORMATION** PROJECT NAME: \_\_\_\_PARAGON STAR -\_LOT 9 -\_BUILDING 2\_ ADDRESS: FIRST PLAT, LOT 9 LEE'S SUMMIT, MO PROPOSED USE: A-2, M, B APPLICABLE CODES INTERNATIONAL BUILDING CODE (IBC <u>NTERNATIONAL MECHANICAL CODE (IMC)</u>

INTERNATIONAL FUEL GAS CODE (IFGC
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE 101 DEPT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN

NTERNATIONAL PLUMBING CODE (IPC)

NTERNATIONAL FIRE CODE (IFC)

TOTAL PROPOSED HEIGHT:

OCCUPANCY CLASSIFICATION		CONSTRUCTION	BASIC ALLOWABLE				
USE	GROUP	TYPE	FLOOR AREA (At)	HEIGHT			
BUSINESS	Group (B)	Type 2B	69,000 SF	4 STORIES, 75 FT.			
RESTAURANT	Group (A-2)	Type 2B	28,500 SF	3 STORIES, 75 FT.			
RETAIL	Group (M)	Type 2B	37,500 SF	3 STORIES, 75 FT.			
HEIGHT MODIFICATIONS (Sec. 504)							
SPRINKLER INCREASE: Sprinkler increase = 20' and (1) Story							
TOTAL ALLOWABLE HEIGHT: 75', (3) Stories							

**AREA MODIFICATIONS (Sec. 506)**  $I_f = 100 (F/P - 0.25) \times W/30 = *\%$ YARD INCREASE: (If)  $I_f = 100 (\overline{1168'/1168' - 0.25}) \times 30/30 = 75\%$ MAXIMUM ALLOWABLE BUILDING AREA (per floor): 49,875 S.F. (UNSEPARATED MIXED USE) GROUND FLOOR AREA: 33,954 S.F SECOND FLOOR AREA: 40,789 S.F. TOTAL BUILDING AREA: 74,743 S.F.

MIXED USE NON-SEPARATED BUILDING

40', (2) Stories

GENERAL EXITING LIMITATIONS (CHAPTER 10)

OCCUPANCY SEPERATION - TABLE 508.3.3

REQUIRED SEPARATION:

OCCUPANT LOAD (1004):

FIRST FLOOR: MERCANTILE: 5,800 S.F. / 60 S.F. PER OCCUPANT = 97 OCCUPANTS 28,154 S.F. TOTAL 21,116 S.F. / 15 S.F. PER OCCUPANT = 1,408 OCCUPANTS 7,038 S.F. / 200 S.F. PER OCCUPANT = 36 OCCUPANTS RESTAURANT

SECOND FLOOR: 40,789 S.F. / 150 S.F. PER OCCUPANT = 272 OCCUPANTS BUSINESS: TOTAL BUILDING OCCUPANCY: 1,813 OCCUPANTS

APPLY MOST RESTRICTIVE TYPE OF CONSTRUCTION TO DETERMINE ENTIRE ALLOWABLE BUILDING MODIFICATIONS

MAXIMUM TRAVEL DISTANCE (1017): TABLE 1017.2: B = 300 FT (FULLY SPRINKLERED) 

MINIMUM PLUMBING FIXTURE COUNT (CHAPTER 29)							
		WATER CLOSETS		LAVATORIES		DRINKING	OTHER
осс	OCCUPANT LOAD	MALE*	FEMALE	MALE*	FEMALE	FOUNTAINS~	
		REQ'D/PROV.	REQ'D/PROV.	REQ'D/PROV.	REQ'D/PROV.	REQ'D/PROV.	1 Serv.
(B)	40,789 SF / 150 = 272	4 / 5*	4/5	3/4	3/4	3 / 3~	Sink

\* Urinals shall be permitted to be substituted for not more than 50 percent of the required water

closets as permitted by section 419.2 of the IPC. ~ Water coolers or bottled water dispensers shall be permitted to be substituted for not more than 50

percent of the required drinking fountains as permitted by section 410.1 of the IPC.

**FIRE PROTECTION** FIRE SPINKLER SYSTEM:

FIRE ALARM & DETECTION SYSTEM:

PROVIDED THROUGHOUT PER IBC 903 AND

PROVIDED THROUGHOUT PER IBV 907 AND INSTALLED PER NFPA 72

NOTE: REFERENCE FIRE PROTECTION DRAWINGS

**MECHANICAL** HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

PARAGON STAR

PARAGON STAR

- LOT 9 -

**BUILDING 2** 

PARAGON STAR

FIRST PLAT, LOT 9

10.25.19

Issued For: SHELL - CD SET

Project No.: 19050.01

LEE'S SUMMIT, MO

REVISIONS

REGISTRATION

PROJECT TEAM

FINKLE+WILLIAMS

ARCHITECTURE

HOERR SCHAUDT /

BSE STRUCTURAL

BSE STRUCTURAL

**ENGINEERS** 

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

ARCHITECT

LANDSCAPE

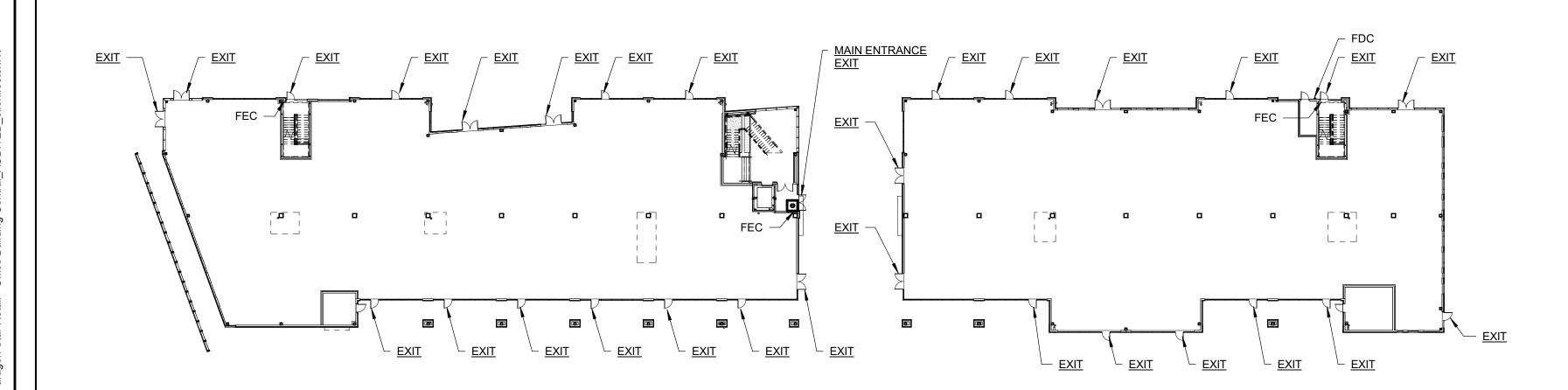
FOUNDATIONS

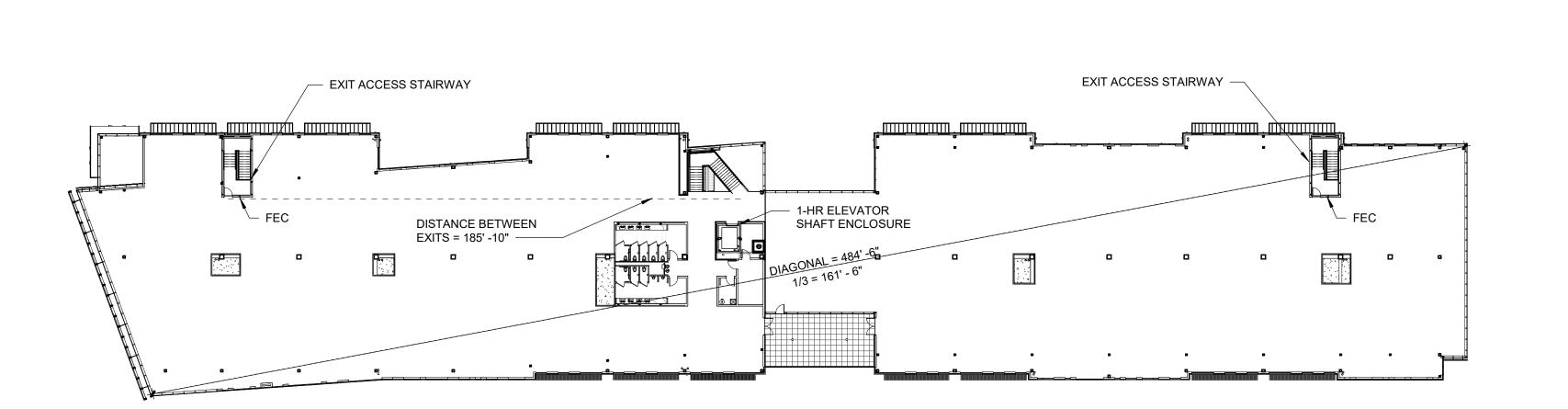
STRUCTURAL

PLUMBING

CIVIL

# **CODE REVIEW PLANS**





1ST FLOOR PLAN - CODE PLAN | 1/32" = 1'-0"SECOND FLOOR PLAN | 1/32" = 1'-0" SHEET NUMBER

FINKLE + WILLIAMS

7007 College Blvd, Suite 415

Overland Park, Kansas 66211

SHEET TITLE

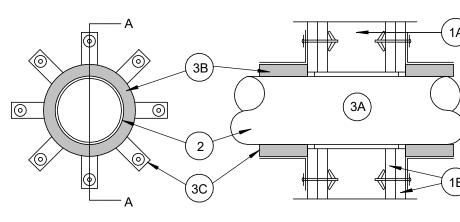
LEGENDS &

GEN. NOTES

913+498-1550

ARCHITECTURE

# Design No. W-L-2074 F Rating - 1 and 2 HR (See Item 1) T Rating -1 and 2 HR (See Item 1) L Rating At Ambient - Less than 1 CFM/sq ft L Rating at 400 F - Less than 1 CFM/sq ft



1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 by 4 in.lumber spaced 16 in. OC. Steel studs to be min 2-1/2in. wide and max 24in. OC.

B. Wallboard Gypsum\* - 5/8 in thick 4ft wide with square or tapered edges. They gypsum wallboard type, thickness, number of layers, Directory. Max. diam of opening is 7 in. The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the

SECTION A-A

- Through Penetrants One metallic pipe, conduit to be centered within the firestop system. A nom annular space of 3/16 in is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of A. Polyvinyl Chloride (PVC) Pipe - Nom 6 in. diam (or smaller Schedule 40 solid core or cellular PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

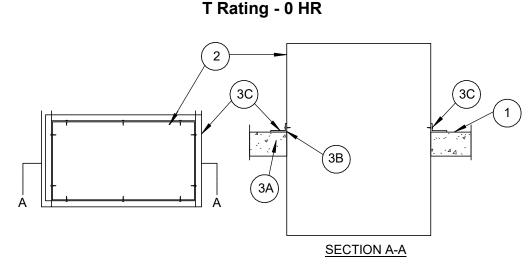
  B. Flame Retardant Polypropylene Pipe (FRPP) Pipe - Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for us in closed (process C. Rigid Nonmetallic Conduit - Nom 6 in diam (or smaller Schedule 40 PVC conduit installed in accordance with Article 347 of the D. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 6 in. diam (or smaller SDR17 CPVC pipe for use in closed (process or supply) r vented (drain, waste, or vent) piping systems
- Firestop System The firestop system shall consist of the following: A. Fill, Void or Cavity Materials\* - Sealant - Min 1/4in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Specified Technologies Inc. - Specseal 100, 101, 102, or 105 sealant B. Fill, Void or Cavity Materials\* - Wrap Strip - Nom 1/4in, thick intumescent material faced on both sides with a plastic film, supplied in 1 1/2 or 2 in. wide strips. Two stacks of wrap strips, each consisting of three wrap strips are individually wrapped around the through-penetrant with the ends butted and held in place with masking tape. Butted ends in successive layers shall be aligned. Wrap strips are installed on each side of wall. Specified Technologies Inc. - Specseal Wrap strip or SpecSeal Red Wrap Strip

  C. Steel Collar - Collar fabricated from coils of precut 0.022 in. thick (No. 26 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be min 3/8in. deep with min 6 in, wide by 2 in. long anchor tabs. Retainer tabs, 3/4in. wide tapering down to 3/8 in., wide and located opposite the anchor tabs, are folded 90 degrees toward through-penetrant surface to maintain the annular space around the through-penetrant and to retain the wrap strips. Steel collar wrapped around wrap strips and through- penetrant with a 1 in. wide overlap along its perimeter joint and secured together by means of three NO. 8 by 1/2in. long steel screws. Wrap trip/steel collar assembly is slid along the through penetrant until it abuts the surface of the wall. Steel collar tightened around wrap strips and through-penetrant using 1/2in. wide by 0.028 in. thick stainless steel hose clamp spaced 2 in DC. Collar secured to wall by 1/8 in. diam by min 1-3/4 in. long molly bolts in conjunction with min 1/4 in. by 1 -1/2in. diam steel fender washers. Steel collars installed on each side of wall. D. Firestop Device\* - (Not Shown) as an option to the wrap strip and the steel collar (Item Nos. 3B and 3C), a firestop device consisting of steel collar lined with an intumescent material sized to fit the specific diam of the nonmetallic through penetrant may installed on each side of the concrete wall and secured to concrete surface with 1/8 in. diam by min. 1 -3/4in. long molly bolts
- Specified Technologies Inc. Specseal Firestop Collar \*Bearing the UL Classification Marking + Bearing the UL Listing Mark

**A0.02** | SCALE : 1" = 1'-0"

# FIRESTOP DETAIL

# System No. C-AJ-7016



F Rating - 2 & 3 Hr (See Item 1)

- 1. Floor or Wall Assembly Min 2-12 in. thick or min 4- 1/2 in. thick lightweight or normal weight (100-150 pcf\_ concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. The F Rating is 2 hr and 3 hr for min 2 -1/2 in. or min 4- 1/2 in. thick assemblies. Max area of opening is 576 sq in. with max dimension of 36 in. for 2 hr assemblies and 544 sq in. with max dimension of 34 in. for 3 hr assemblies. See concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants One steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of nin 0 in. (point contact) to max 4 in. is required within the firestop systém for 2 hr assémblies and min 0 in. (point contact) to max 2 in. i required within the firestop system for 3 hr assemblies. Steel duct to be rigidly supported on both sides of the floor or wall assembly. The
- Steel Pipe Nom 32in. by 14 (or smaller) No. 22 gauge (or heavier) galv. steel duct B. Steel Pipe - Nom 30in. by 12 (or smaller) No. 24 gauge (or heavier) galv. steel duct
- 3. Firestop System The firestop system shall consist of the following:
- A. Packing Material Nom 1 in. thickness of tightly packed mineral wool batt insulation firmly packed into opening as a permanen required thickness of caulk fill material. B. Fill, Void, or Cavity Material\* - Caulk - Min. 1 in. thickness of fill material applied within annulus flush with top surface of floor or both
- surfaces of wall assembly. At the point contact location between duct and concrete, a min 1/4 in. diam bead of sealant shall be applied to the concrete/duct interface on the top surface of floor and on both surfaces of wall assembly Minnesota Mining and Mfg. Co. - CP 25WWB+ C. Retaining Angles - Min 16 gauge galv steel angles sized to lap duct a min of 2 in. and lap top surface of floor or both surfaces of wall a min of 1 in. Angles attached to duct with min 1/2 in. long, No. 10 (or larger) sheet metal screws spaced a max of 1 in. from each
- \*Bearing the UL Classification Marking

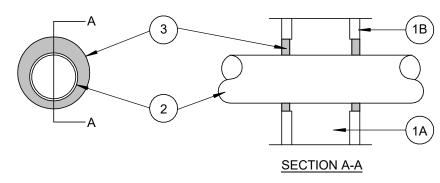
# FIRESTOP DETAIL

SCALE: 1" = 1'-0"

A0.02

#### Design No. W-L-1062

F Rating - 1 HR T Rating - 0 HR L Rating At Ambient - Less than 1 CFM/sq ft L Rating at 400 F - Less than 1 CFM/sq ft



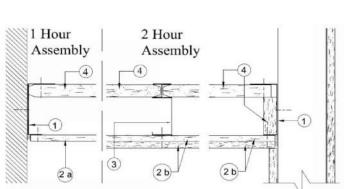
- Wall Assembly The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and partition Designs in the UL Fire Resistance Directory and shall include the following A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 by 4 in.lumber spaced 16 in. OC. Steel studs to be min 3-5/8in. wide and spaced max 24in. OC. B. Wallboard Gypsum\* - One layer of nom 5/8in. thick gypsum wall board as specified in the individual Wall and Partition Design. Max
- Through Penetrants One metallic pipe, conduit or tubing to be installed within the firestop system. The space between pipe, conduit, or tubing and periphery of opening shall be a min. 1/4 in. to a max 3/8 in. Pipe conduit or tubing to be rigidly supported on both sides of wall Steel Pipe - Nom 4in. diam (or smaller) schedule 5 (or heavier steel pipe.) Iron Pipe - Nom 4 in. diam (or smaller) cast or ductile iron pipe. Conduit - Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
- Copper Pipe Nom 4 in. diam (or smaller) regular (or heavier) copper pipe 3 Fill Void or Cavity Materials\* - Caulk - Min 1/2in thickness of fill material applied within the annulus, flush with both surfaces of wall General Electric Co. - Pensil 100 caulk. Specified Technologies Inc. - Pensil 100 Sealant and Pensil 300 sealant

Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing

#### 1 & 2 HR Horizontal Cavity Shaft Wall (Corridor Ceiling/Stair Application)

**ASSEMBLY EVALUATION REPORT, AER-09038** 

PUBLISHED BY PROGRESSIVE ENGINEERING.



- 1. A minimum 2-1/2" deep 24 gauge J-runner attached horizontally to perimeter or boundary walls with a power actuated fasteners For a one (1) hour assembly: Attach one (1) layer of 5/8" thick SHEETROCK® Brand FIRECODE®
- CCore Gypsum (Type C), to the underside of the "Corridor Ceiling" of the C-H stud and the perimeter J-runners. Use 1" long Type S screws that are spaced 12" o.c. in the field and at the edges.

  For a two (2) hour assembly: Attached two (2) layers of minimum 1/2" thick SHEETROCK® Brand FIRECODE® C Core Gypsum Panels (Type C), to the underside of the "Corridor Ceiling" of the C-H stud and the perimeter J-For the BASE layer, use a 1" long Type S screw that is spaced 24" o.c. along the perimeter and the edges. The FACE layer should be applied with a 1-5/8" long Type S screw that is spaced 12" o.c. in the field and perimeter. All joints must be staggered a minimum of
- 24" o.c. from the adjacent layer.

  3. Install the C-H studs perpendicular to the J-runner spaced 24" o.c. with the C-section of the C-H stud facing downward towards the corridor side of the assembly with two (2) screws a minimum 1/2" long Typ S-12 screws, one on each side.1" thick SHEETROCK® Brand Gypsum Liner Panel Friction fitted in "H" portion of C-H studs.

  1-in thick SHEETROCK® Brand Gypsum Liner Panel - Friction-fitted in "H" portion of C-H studs.
- a. Where the liner panel (item 4) is cut short to be installed, gaps must be filled by using a strip of 1-in thick SHEETROCK Brand Gypsum Liner Panel.

  b. As an alternative you can use mineral fiber insulation to prevent exposure to the top leg of the J-
- Where the wall section extends above the corridor ceiling, above corridor height a rip of board must be used to cap the opening between studs and a strip of mineral fiber insulation as described in item 6 must be used. 6. In order to prevent the passage of heat and gases, a 12-in long strip of mineral fiber insulation must be

# **BOTTOM OF SHAFT DETAIL**

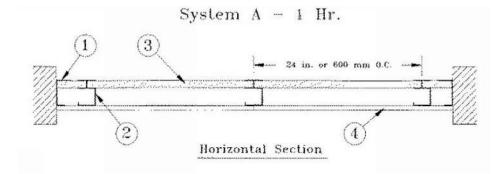
used to fill in the stud cavity of the walls

SCALE: 1" = 1'-0"

A0.02

#### Design No. U415

#### Nonbearing Wall Rating - 1 HR.



- Floor, Side and Ceiling Runners "J" shaped runner, min 2-1/2 in, deep (min 4 in, deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in, from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.
- . Steel Studs "C-H" shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor
- Furring Channels (Optional, not shown) For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in, OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard — to be installed vertically only. Not to be used with Type K-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7). Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

  Steel Framing Members\* — (Optional, not shown) — For use with single or double layer systems. Furring channels and Steel
- raming Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (İtem 4B) or cementitious backer units (Item 7):
  a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3. Steel Framing Members\* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in, wide furring channels.
- E. Steel Framing Members (Optional, Not Shown)\* Furring channels and resilient sound isolation clip as described below: Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self rilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to study with RESILMOUNT Sound Isolation Clips- Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in, from joint edge. Steel Framing Members\* — Resilient sound isolation clip used to attach furring channels(Item 2Ea) to studs. Clips spaced 24

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

- in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS RESILMOUNT Sound Isolation Clips Type A237R Steel Framing Members\* — (Optional, not shown) — For use with single or double layer systems. Furring channels and Steel raming Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7): Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep,spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to
- urring channels as described in Item 3. b. Steel Framing Members\* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in.OC. NIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
- . Gypsum Board\* Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips. UNITED STATES GYPSUM CO — Type SLX
  USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SLX JSG MEXICO S A DE C V — Type SLX
- Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally. attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing. CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX,
- USGX. When ULIX is used insulation, Item 6, Batts and Blankets\* is required and minimum stud depth is 4 in USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX .. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beyeled, square or tapered edges, applied
- vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1 2, 2A, 2B and 2D, Wallboard secured to study with 1-1/4 in, long Type S-12 steel screws spaced 8 in, OC at perimeter and 12 in. C in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item
- RAY-BAR ENGINEERING CORP Type RB-LBG B. Gypsum Board\* — (As an alternate to Item 4 Systems A. B. C. D. E. G. H. and I when used as the base layer. For direct attachment only) - Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with -1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in
- Gypsum Board\* (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base laver. For direct ittachment only) - Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied verticall Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2/ B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A), Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batter strips, min 2 in, wide, max 10 ft long with a max thickness of 0.140 in, placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

- D. Gypsum Board\* (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in, OC at perimeter and 12 in, OC in the field. Lead batten strips quired behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 8 ft long with a max thickness of 0.14 in, placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall
- 5. Joint Tape and Compound -- (Not Shown) -- Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads
- . Batts and Blankets\* -- (Optional) -- Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.
- Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
- 7 Cementitious Backer Units\* -- (System D) -- Not Used
- 8. Laminating Adhesive\* -- (Optional, Not Shown) 9. Lead Batten Strips — (Not Shown, For Use With Item 4A) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness o 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Feder specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and
- optional at remaining stud locations. Required behind vertical joints. A. Lead Batten Strips — (Not Shown, for use with Item 4C) Lead batten strips, 2 in, wide, max 10 ft long with a max thickness of 0.140 n. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten
- strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations. 10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) - Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the
- A. Lead Discs (Not Shown, for use with Item 4C) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or . Lead Batten Strips — (Not Shown, For Use With Item 4B) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead
- batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations. 12. Lead Tabs — (Not Shown, For Use With Item 4B) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

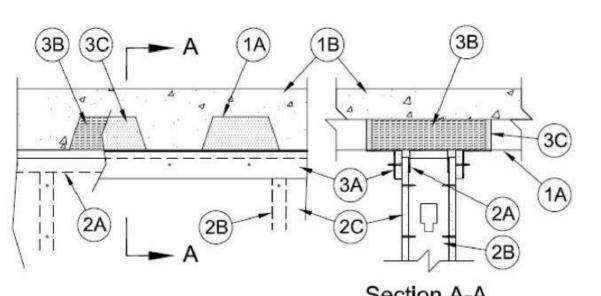
\*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

# PER PLAN **MECHANICAL** (1) LAYERS OF 5/8" TYPE 'X" ĠÝP. BD. ON 4" 20 GA. MTL. SHAFTWALL "I", "C" OR "H" SHAPED STUDS @ 24" O.C. 1" GYPSUM WALLBOARD LINER PANEL - STEEL "J" - RUNNER TRACK FIREPROOFING **BOTTOM OF SHAFT 1-HR** SEALANT ASSEMBLY PER AER-09038, SEE 4/A0.02 REINF. CONC. FLR. SLAB PER STRUCT. DWGS. STEEL BENT PLATE PER STRUCT. DWGS. STEEL BEAM PER STRUCT. DWGS.

### MECH. SHAFT EDGE DETAIL **A0.02** | SCALE: 3" = 1'-0"

#### System No. HW-D-0001

#### Assembly Rating - 1 HR. Nominal Joint Width - 5/8 in. Class I Movement Capabilities - 80% Compression, 60% Extension



- . Floor Assembly The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features Steel Floor and Form Units\* — Max 3 in. (76 mm) deep galv steel fluted floor units. Concrete — Min 2 1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
- Roof Assembly As an alternate to Item 1 Floor Assembly, the fire-rated roof assembly shall be constructed of the materials and in the manner described in the individual P700, P800 or P900 series Roof-Ceiling Designs in the UL Fire Resistance Directory and shall contain max 1-1/2 in. (38 mm) deep fluted galv steel deck. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. In the case of spray-applied protection materials on the steel deck, the joint system shall be installed prior to the spray-applied protection material.
- b. Floor Assembly As an alternate to Item 1 Floor Assembly, min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Wall Assembly — The 1 hr fire-rated nonbearing gypsum board/steel stud wall assembly shall be constructed of the materials and in the nanner described in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
- A. Steel Floor And Ceiling Runners Floor and ceiling runners of wall assembly shall consist of min 25 ga galv steel channels for nom 5/8 in. (16 mm) joints. Ceiling runner to be min 20 ga steel channels for joints greater than 5/8 in. Ceiling runner to be sized to accommodate steel studs (Item 2B) and properly sized according to structural requirements. (See table under Item 3A for minimum flange lengths). Celling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 12 in. (305 mm) OC. Ceiling runner secured to concrete floor slab (Item 1B) with steel masonry anchors spaced max 24 in. (610 mm) OC. consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner
- Light Gauge Framing\* Notched Ceiling Runner As an alternate to the ceiling runners in Items 2A and 2A1, notched ceiling runners to installed perpendicular to direction of fluted steel deck and secured with steel masonry anchors spaced max 12 in. (305 mm) OC. Notched ceiling runner secured to concrete floor slab (Item 1B) with steel masonry anchors spaced max 24 in. (610 mm) OC. Notched ceiling runner suitable for 5/8 in. (16 mm) or 1 in. (25 mm) wide joints only. OLMAR SUPPLY INC — Type SCR
- A. Studs Steel studs to be min 2 1/2 in. (64 mm) wide. Studs cut 5/8 to 1 in. (16 to 25 mm) less in length than assembly height for nom 5/8 in. (16 mm) joints, 1 to 1-1/4 in. (25 to 32 mm) for nom 1 in. (25 mm) joints, 2 to 2-1/4 in. (51 to 57 mm) for nom 2 in. (51 mm) joints and 3 to 3-1/4 in. (76 to 83 mm) for nom 3 in. (76 mm) joints. Studs to have bottom nesting ir and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. (610
- B. Gypsum Board\* Gypsum board sheets installed to a min total thickness of 1/2 in. (13 mm) on each side of wall. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory except that a nom 5/8 n. (16 mm), 1 in. (25 mm), 2 in. (51 mm) or 3 in. (76 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck. The screws attaching gypsum board to studs (Item 2B) at the top of the wall shall be located 1 . (25 mm), 1-1/4 in. (32 mm), 2-1/4 in. (57 mm) or 3-1/4 (83 mm) below the bottom of the ceiling runner (Item 2A) for nom 5/8 in. (16 mm), 1 in. (25 mm), 2 in. (51 mm) and 3 in. (76 mm) joints, respectively.
- 4. Joint System The joint system is designed to accommodate a max 80 percent compression or extension from its installed width. The joint system consists of a forming material and fill material in the flutes of the steel deck and a "slip track" detail consisting of restraining angles in combination with gypsum board on the vertical flanges. When the floor assembly consists of a flat concrete slab (Item 1B), the rming material (Item 3B) and fill material (3C) are not used. The components of the system are as follows: Restraining Angles — Angles formed from min 25 ga galv. Piece of gypsum board cut from the same gypsum board used for the wall (Item 2C). See table below for min angle and gypsum board strip length. Gypsum board liner secured to steel angle

vith min`1 in. (25 <sup>°</sup> r ongitudinal centerl hrough leg of stee gainst wall surfac	nm) long self-drilling, self-tapping T ine of steel angle. Screws installed I angle. Restraining angles installed e and with horizontal leg of steel an	ype S bugle head steel through face of gypsum I along top of wall on ead gle against valleys of ste	corews spaced max 8 in. (203 mm) OC. along board such that excess screw length protrude the side of wall assembly with gypsum board lined deck or bottom of floor slab. Restraining conry anchors spaced max 12 in. (305 mm) OC.
Nominal Joint Width, in. (mm)	Minimum Angle and Gypsum Board Strip Length, in. (mm)	Minimum Runner Leg Length, in. (mm)	
5/8 (16)	2 (51)	2-1/2 (64)	
1 (25)	3 (76)	3-1/2 (89)	

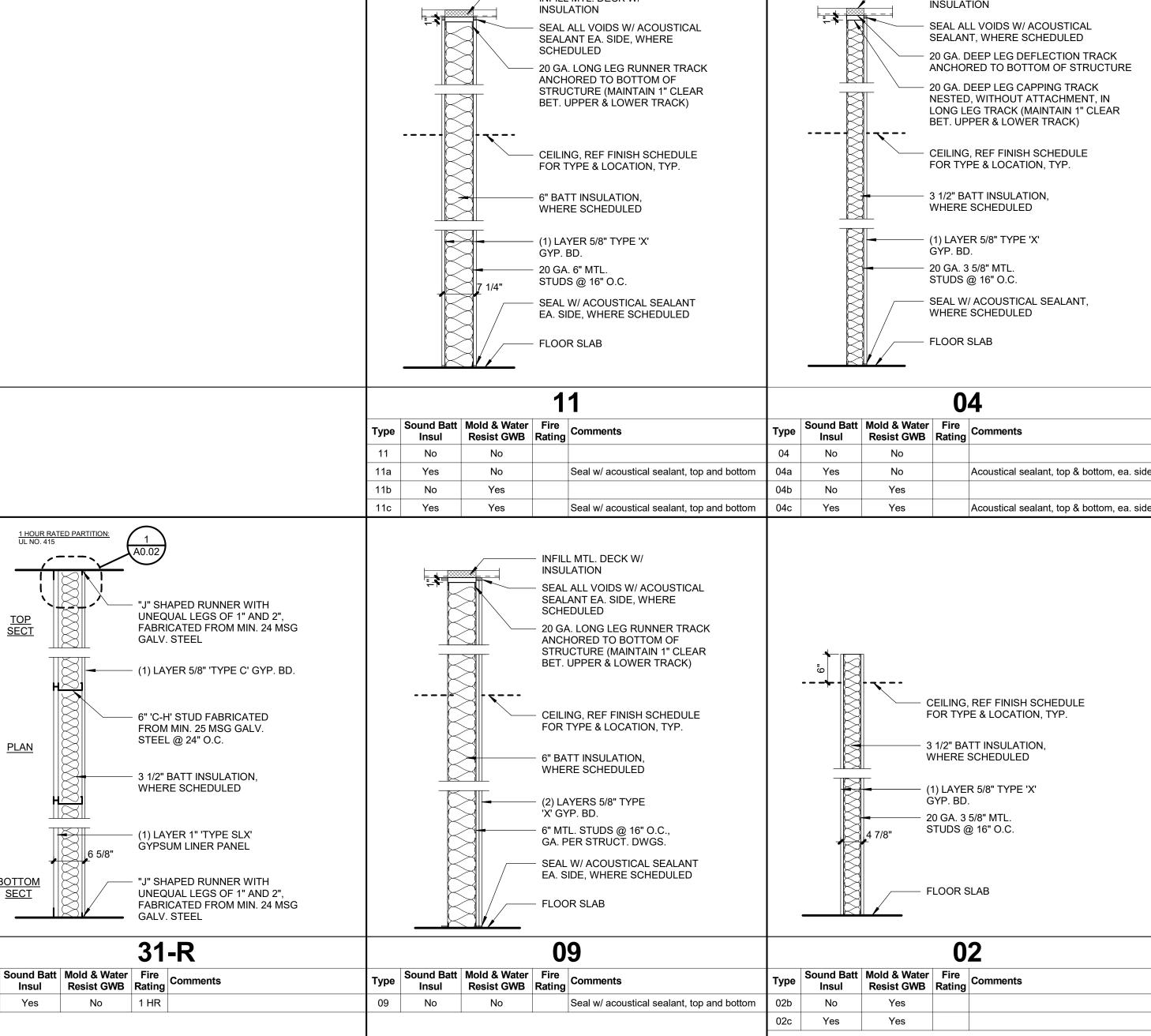
B. Forming Material\* — Min 4 pcf (64 kg/m3) density mineral wool batt insulation firmly packed into flutes of steel deck across top of wall as a permanent form. Forming material to be recessed from edges of restraining angles on each side of wall to accommodate the required thickness of fill material. THERMAFIBER INC — Type SAI

6-1/2 (165)

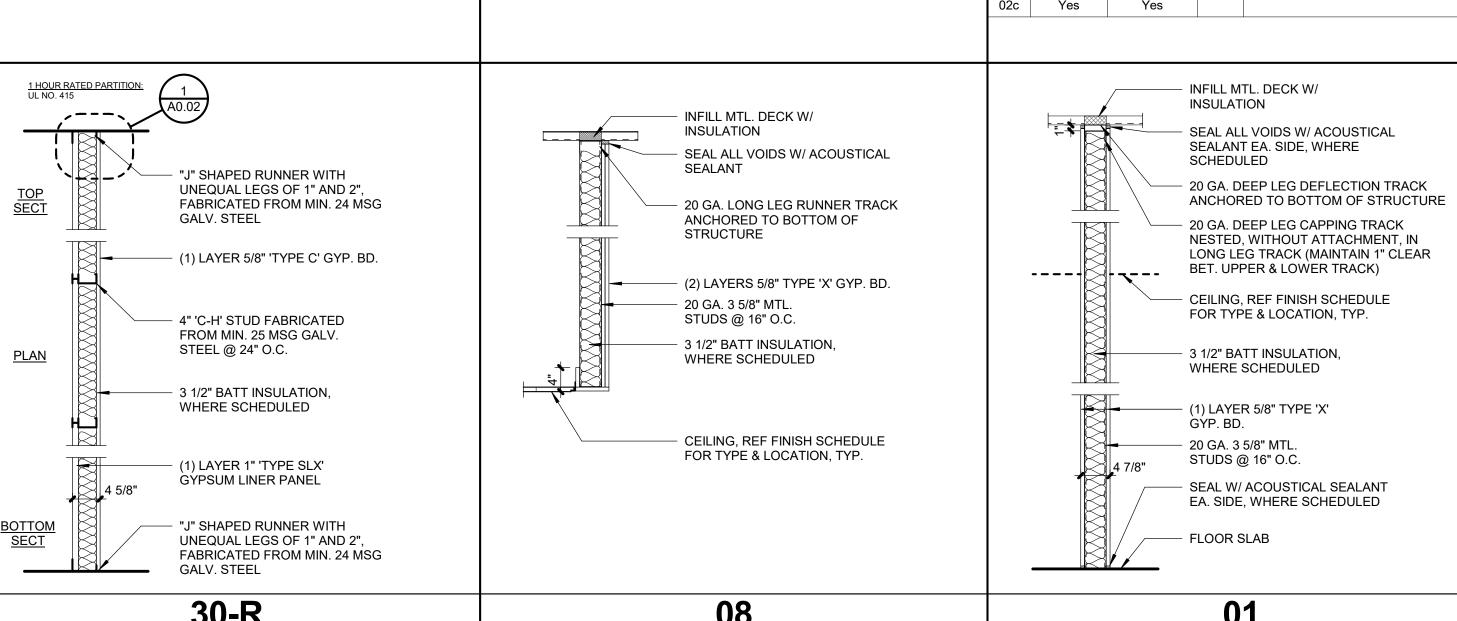
- 1. Forming Material\* (Optional, Not Shown) Preformed mineral wool plugs, formed to the shape of the fluted floor units friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed from both wall surfaces to accommodate the required thickness of fill material Item 3C). Additional forming material, described in Item 3B, to be used in conjunction with the plugs to fill the ga between the top of gypsum board and bottom of steel deck. THERMAFIBER INC — TopStop mineral wool deck plugs Type SAF batts
- C. Fill, Void or Cavity Material\* Min 1/2 in. (13 mm) thickness of fill material applied within the recess of each steel deck flute, flush with the outside edge of the restraining angle on each side of the wall. Dry mix material mixed with water at a rate of 2.1 parts dry mix to 1 part water, by weight, in accordance with accompanying instructions.
- 1. Fill, Void or Cavity Material\* As an alternate to Item 3C, min 1/2 in. (13 mm) thickness of two component fill material applied within the recess of each steel deck flute. flush with the outside edge of the restraining angle on each side of he wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation instructions. UNITED STATES GYPSUM CO — Type RFC
- 2. Fill, Void or Cavity Material\* As an alternate to Item 3C, min 1/8 in. (3 mm) wet thickness of fill material sprayed or brushed on each side of the wall to completely cover mineral wool forming material (Item 3B) and to overlap a min of 1/2 in. (13 mm) onto restraining angle and steel deck.
- 3. Fill. Void or Cavity Material\* As an alternate to Item 3C. min 1/4 in. (6 mm) wet thickness of fill material sprayed on each side of the wall to completely cover the mineral wool forming material and to lap min 1/2 in. (13 mm) onto restraining angle and steel deck. UNITED STATES GYPSUM CO — Type AS

Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

**TERMINATION DETAIL** 



INFILL MTL. DECK W/



Seal w/ acoustical sealant, top and bottom

Sound Batt | Mold & Water | Fire

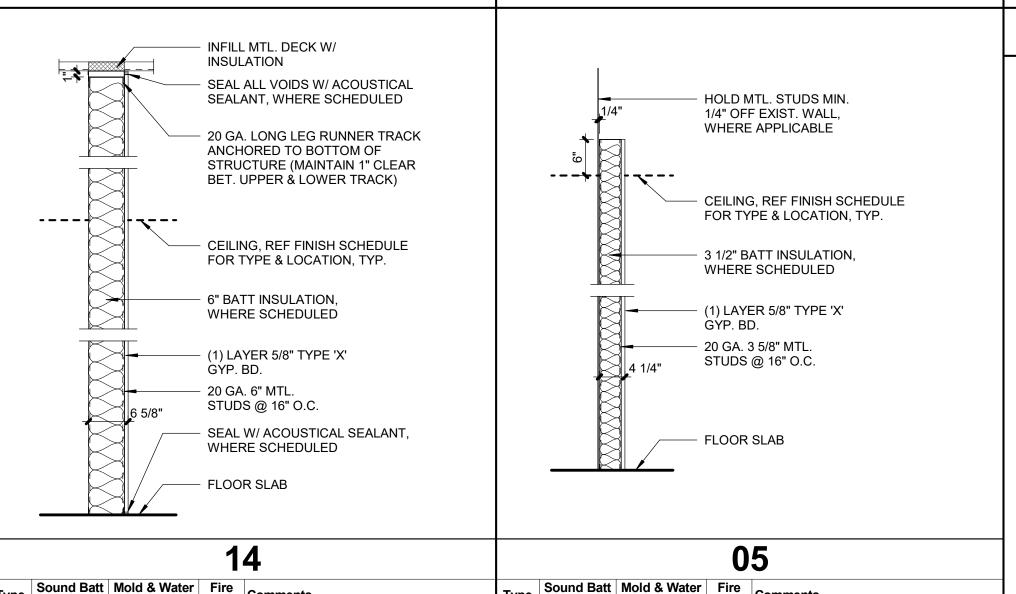
No

Insul Resist GWB Rating

No

No

Yes



Sound Batt | Mold & Water | Fire

No

Yes

Resist GWB Rating

Resist GWB Rating

No

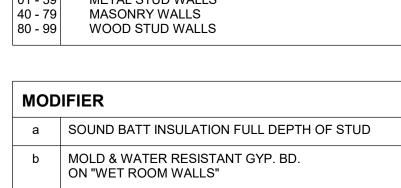
14a Yes

**PARTITION LEGEND** PARTITION SERIES • ##x R > RATED PARTITION MODIFIER **PARTITION SERIES** 01 - 39 METAL STUD WALLS 40 - 79 MASONRY WALLS 80 - 99 WOOD STUD WALLS

Sound Batt | Mold & Water | Fire

Yes

Yes



INSULATION AND MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS" d-z VARIES, SEE PARTITION SCHEDULE COMMENTS

R FIRE RATED, SEE SCHEDULE FOR ADDITIONAL INFO.

Acoustical sealant, top & bottom, ea. side

Seal w/ acoustical sealant, top and bottom

PARAGON STAR

INFILL MTL. DECK W/

**PARAGON STAR** - LOT 9 -**BUILDING 2** 

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS

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REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE CIVIL GBA HOERR SCHAUDT /

FOUNDATIONS

STRUCTURAL

ELECTRICAL

**BSE STRUCTURAL** 

BSE STRUCTURAL

**ENGINEERS** 

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

**PLUMBING** HENDERSON **ENGINEERS MECHANICAL** HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON **ENGINEERS** CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

ARCHITECTURE 7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

SHEET TITLE

WALL TYPES

SHEET NUMBER

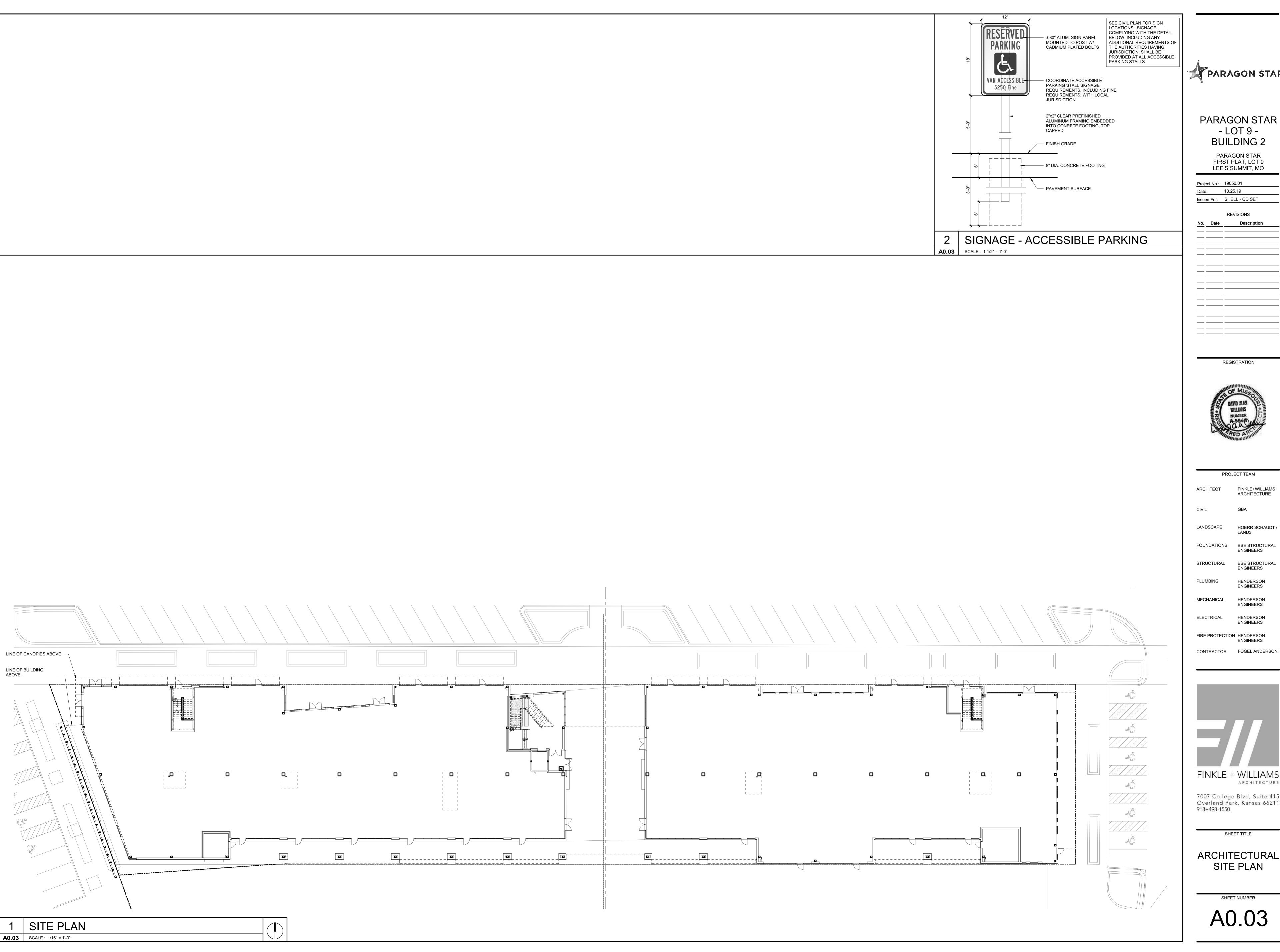
SCALE: 1" = 1'-0"

FIRESTOP DETAIL

**UL ASSEMBLY DETAIL** A0.02 SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"

A0.02





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET

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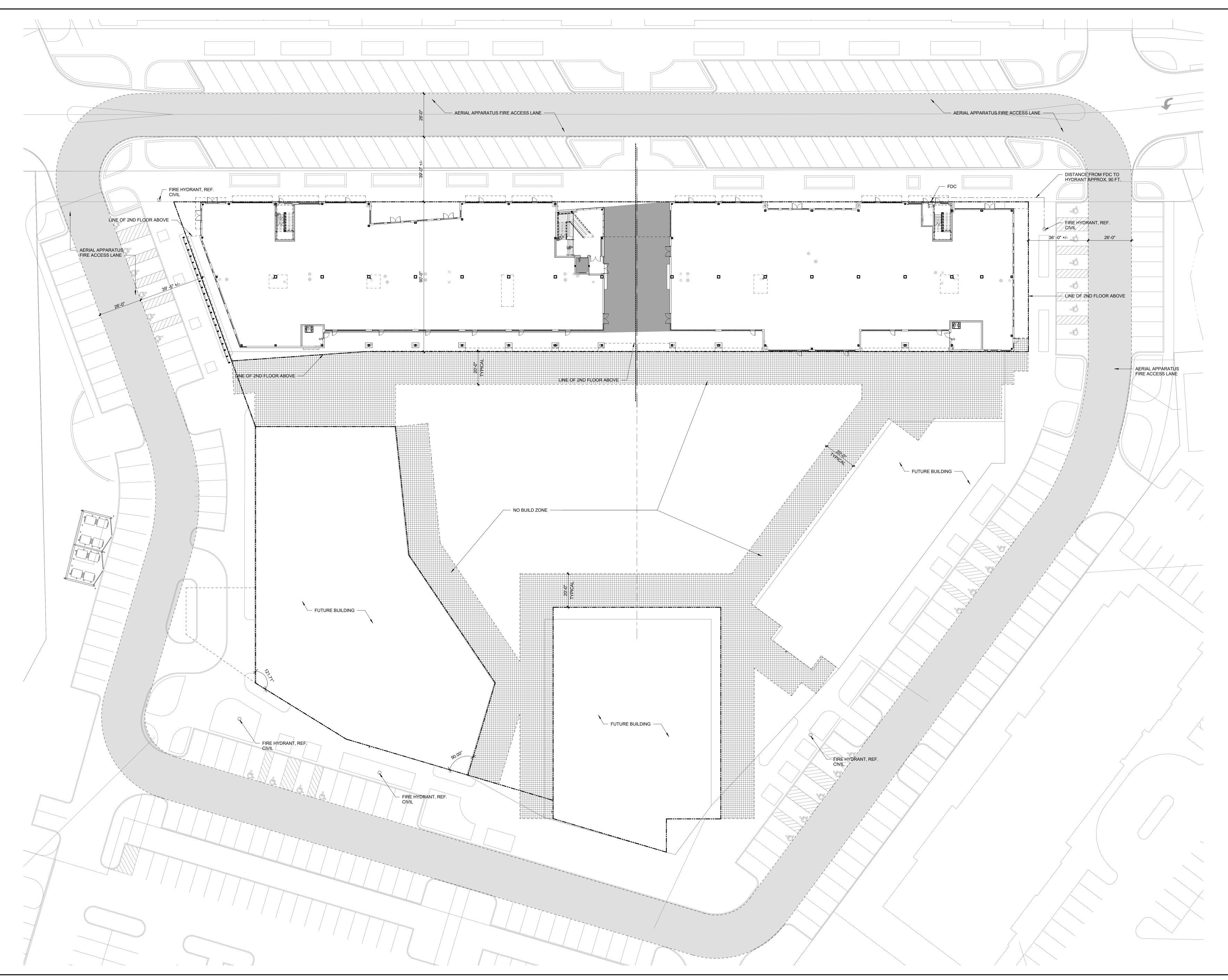
FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** HENDERSON HENDERSON ELECTRICAL **ENGINEERS** 

FINKLE + WILLIAMS

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SHEET TITLE

ARCHITECTURAL SITE PLAN





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01

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STRUCTURAL BSE STRUCTURAL ENGINEERS

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MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON

ENGINEERS
FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

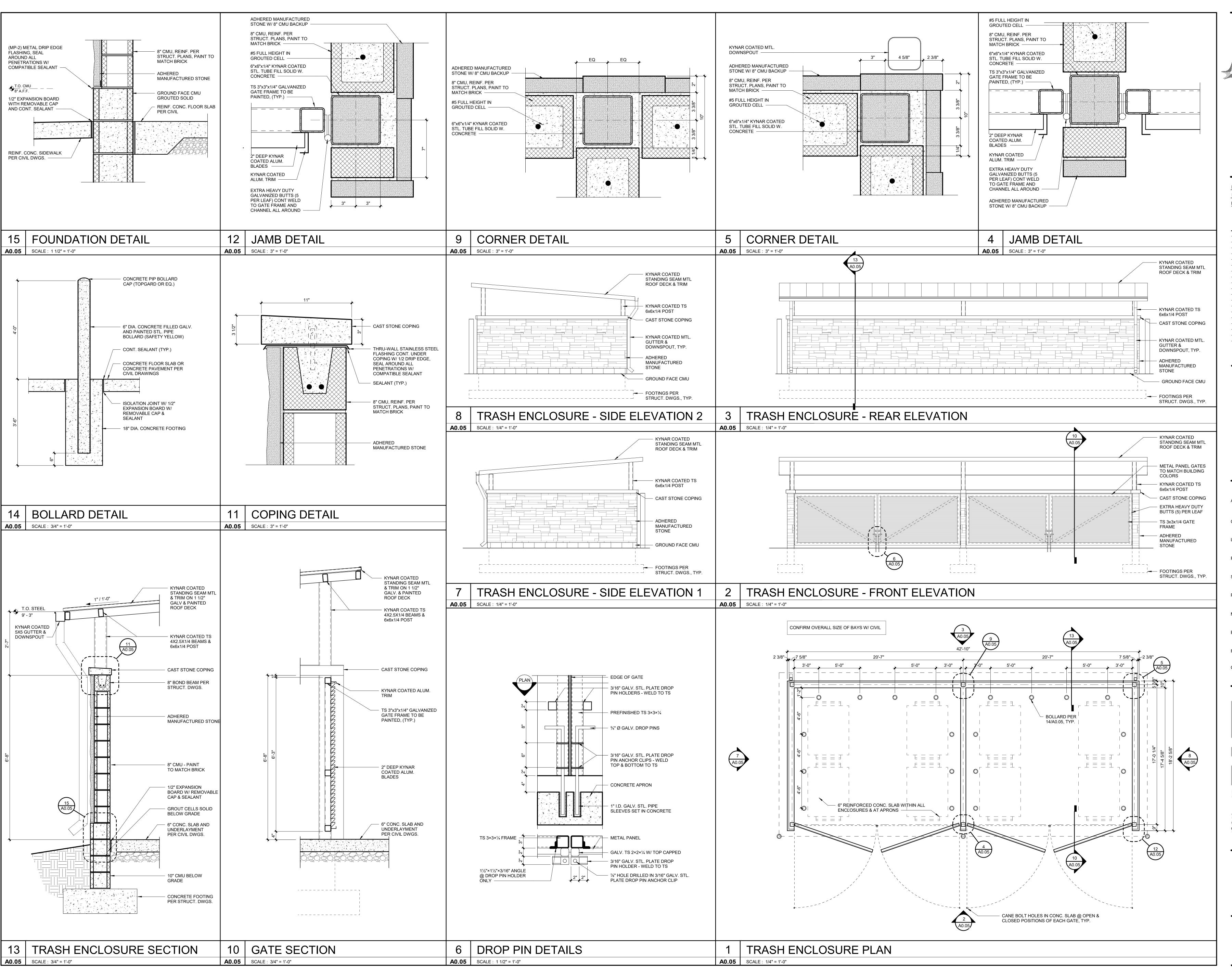
FINKLE + WILLIAMS
ARCHITECTURE

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SHEET TITLE

CODE SITE PLAN





PARAGON STAR FIRST PLAT, LOT 9

Project No.: 19050.01

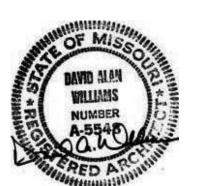
Date: 10.25.19

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No. Date Description

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CIVIL GBA

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ANICAL HENDERSON

HENDERSON

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

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TRASH ENCLOSURE

DETAILS

A0.05



PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

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CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS
ARCHITECTURE

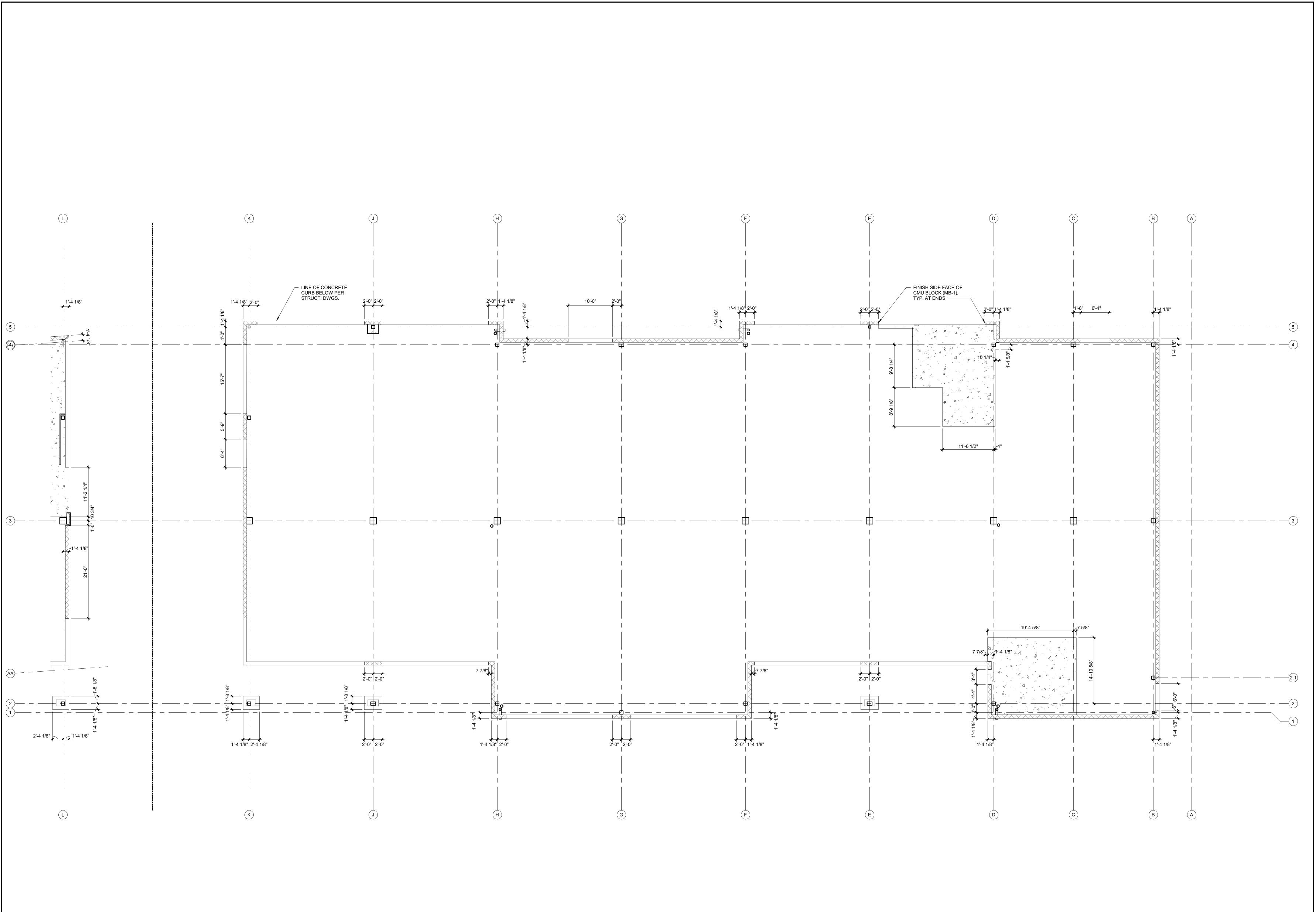
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SLAB EDGE

PLAN - 1ST FLOOR WEST

AO.11





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

Project No.: 19050.01

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CIVIL GBA

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STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

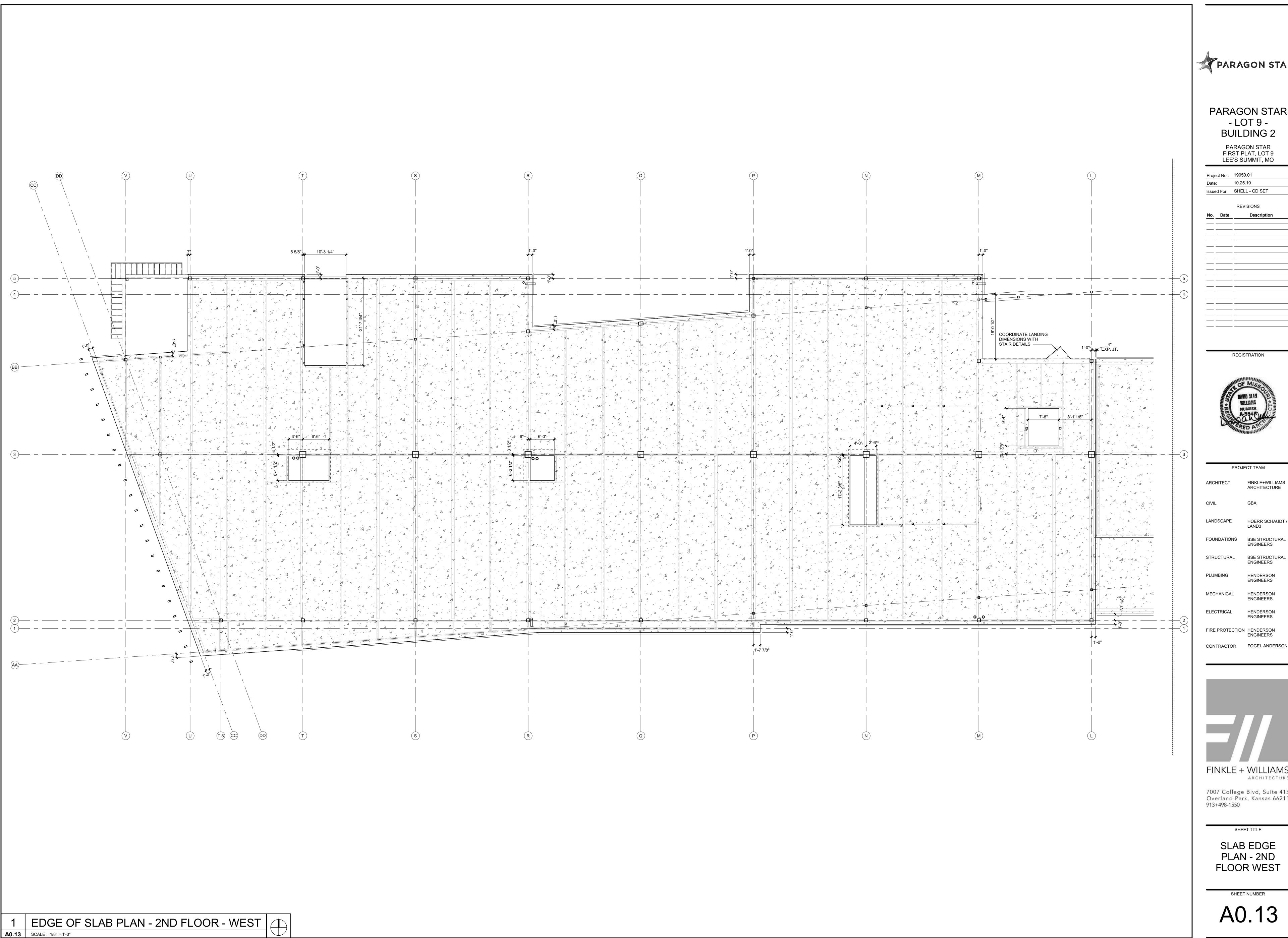
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SLAB EDGE PLAN - 1ST

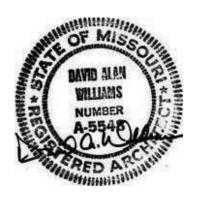
**FLOOR EAST** 

AO.12





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO



FINKLE+WILLIAMS FOUNDATIONS BSE STRUCTURAL

> HENDERSON **ENGINEERS**

MECHANICAL HENDERSON HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

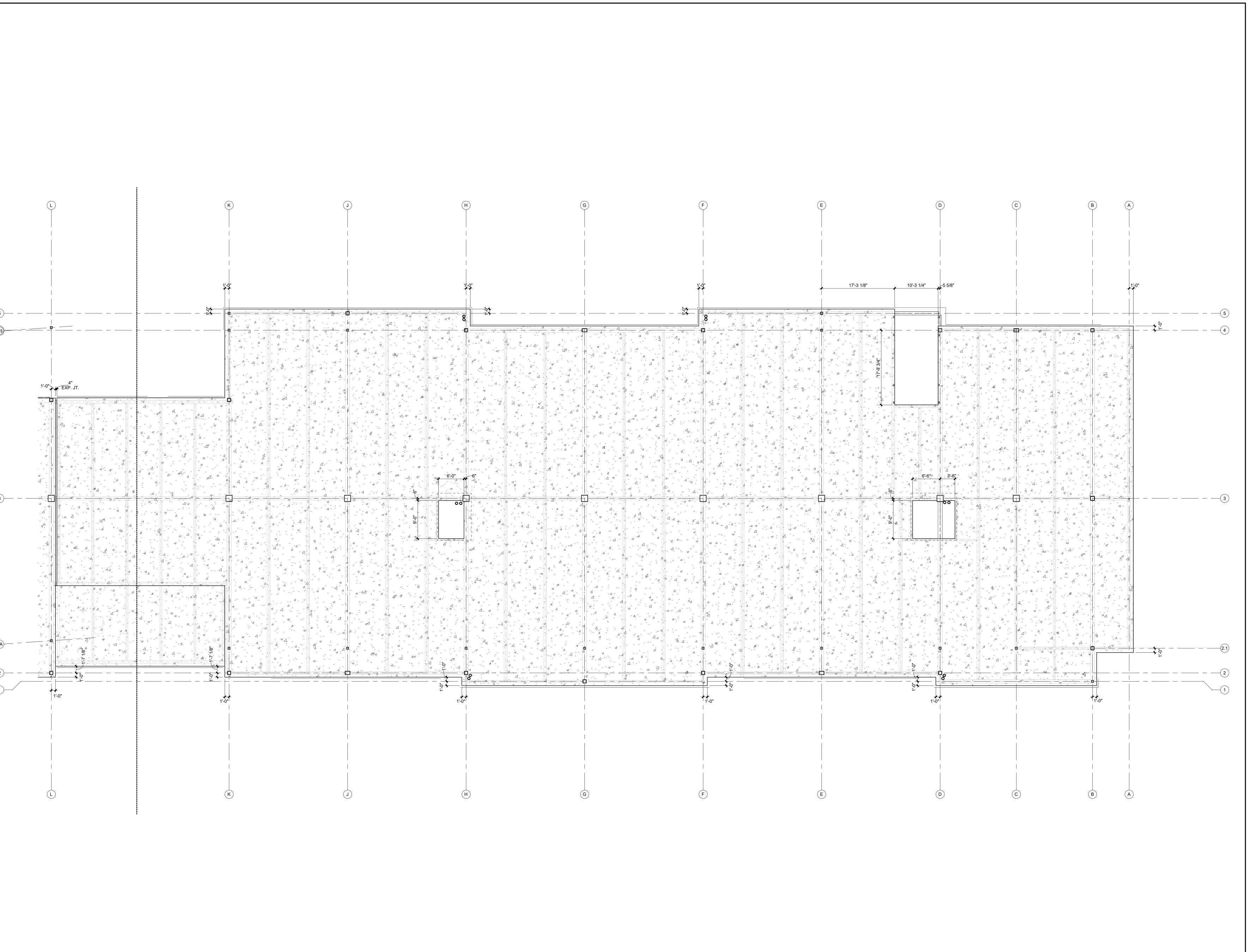
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ARCHITECTURE

SHEET TITLE

SLAB EDGE PLAN - 2ND FLOOR WEST

SHEET NUMBER A0.13



EDGE OF SLAB PLAN - 2ND FLOOR - EAST

**A0.14** SCALE: 1/8" = 1'-0"



# PARAGON STAR - LOT 9 -BUILDING 2

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01

Date: 10.25.19

Issued For: SHELL - CD SET

o. Date Description

REGISTRATION



PROJECT TEAM

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ARCHITECTURE

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STRUCTURAL BSE STRUCTURAL ENGINEERS
PLUMBING HENDERSON

**ENGINEERS** 

HENDERSON

MECHANICAL HENDERSON ENGINEERS

ENGINEERS

FIRE PROTECTION HENDERSON
ENGINEERS

CONTRACTOR FOGEL ANDERSON

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ARCHITECTURE

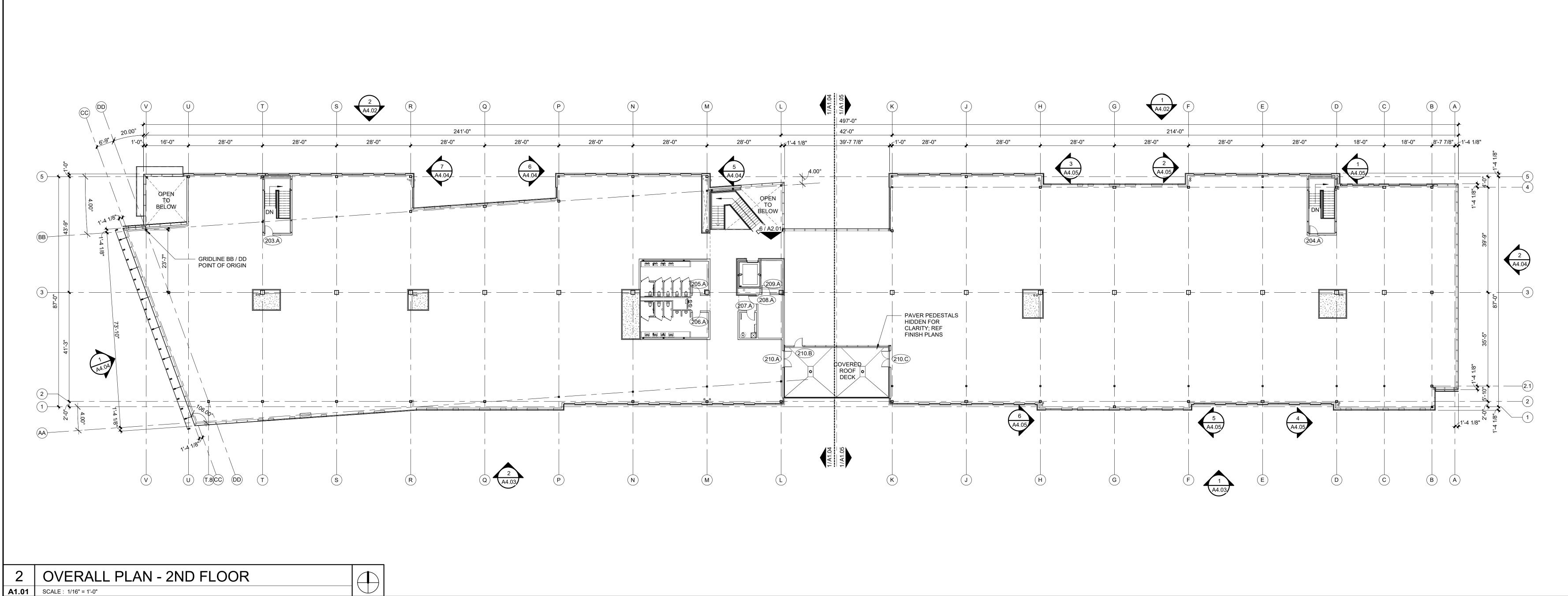
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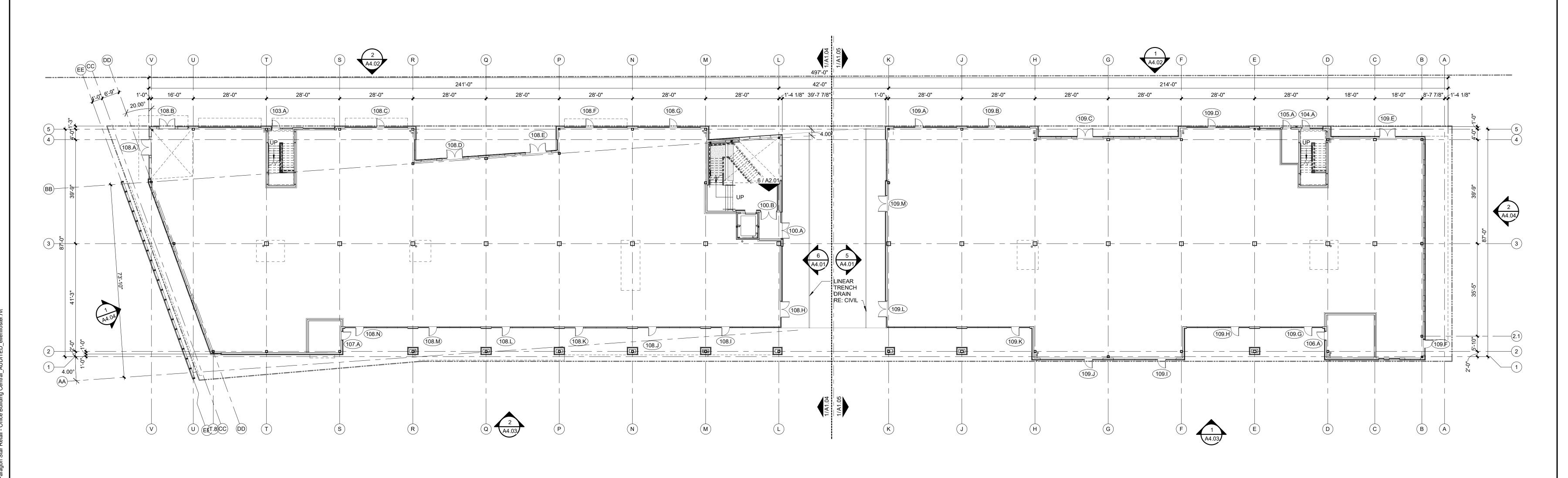
SLAB EDGE PLAN - 2ND

FLOOR EAST

SHEET NUMBER

A0.14





OVERALL PLAN - 1ST FLOOR

SCALE: 1/16" = 1'-0"

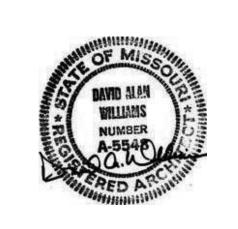


PARAGON STAR - LOT 9 -**BUILDING 2** PARAGON STAR

LEE'S SUMMIT, MO 10.25.19 Issued For: SHELL - CD SET

FIRST PLAT, LOT 9

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS

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FOUNDATIONS BSE STRUCTURAL **ENGINEERS** 

> BSE STRUCTURAL **ENGINEERS** HENDERSON **ENGINEERS**

MECHANICAL HENDERSON

> HENDERSON **ENGINEERS**

ELECTRICAL

FIRE PROTECTION HENDERSON ENGINEERS CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

ARCHITECTURE

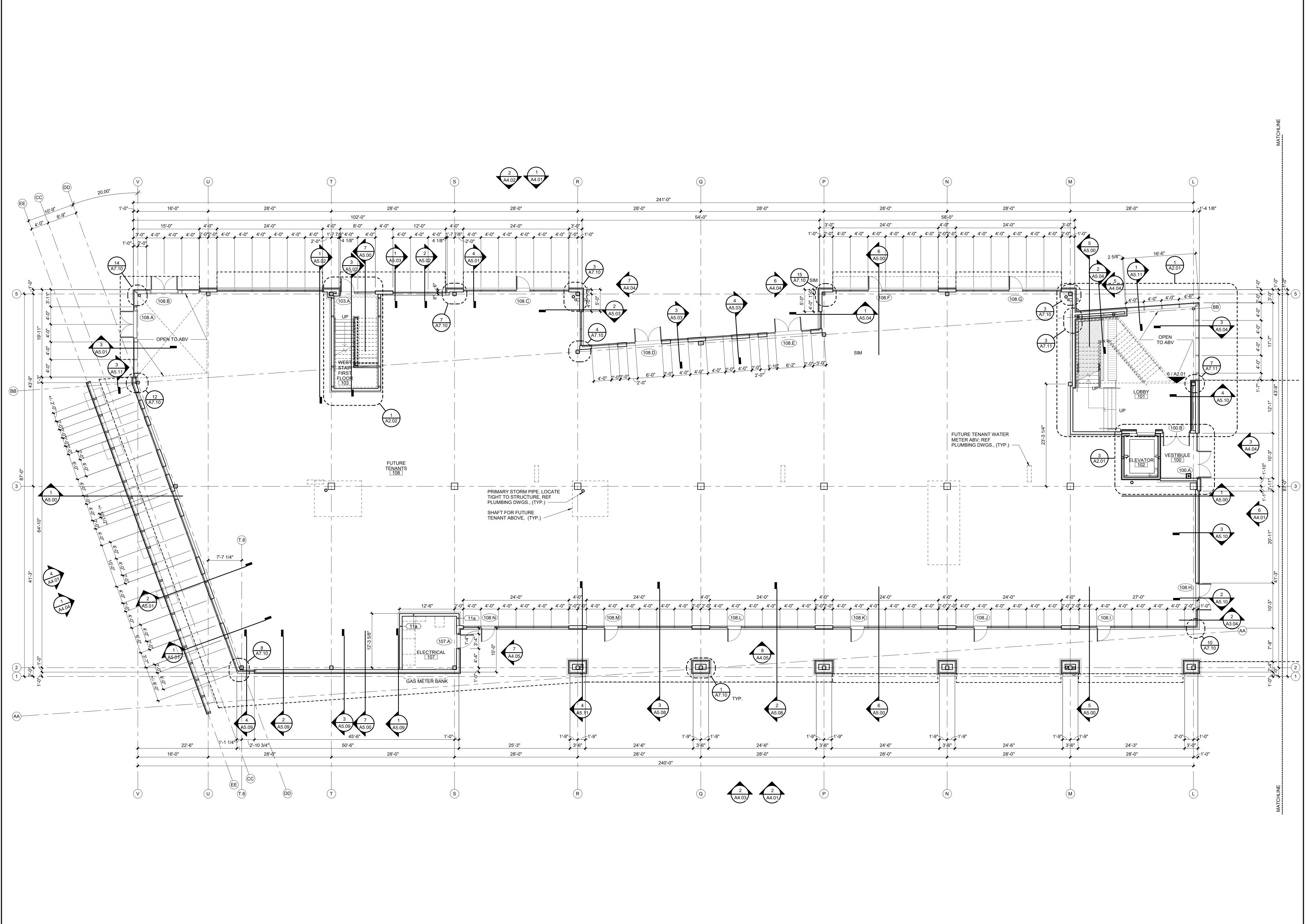
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SHEET TITLE

OVERALL FLOOR **PLANS** 

SHEET NUMBER

A1.01



1ST FLOOR PLAN - WEST

**A1.02** SCALE: 1/8" = 1'-0"



# PARAGON STAR - LOT 9 -BUILDING 2

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

 Project No.:
 19050.01

 Date:
 10.25.19

 Issued For:
 SHELL - CD SET

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 No.
 Date
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REGISTRATION



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FINKLE + WILLIAMS

CONTRACTOR FOGEL ANDERSON

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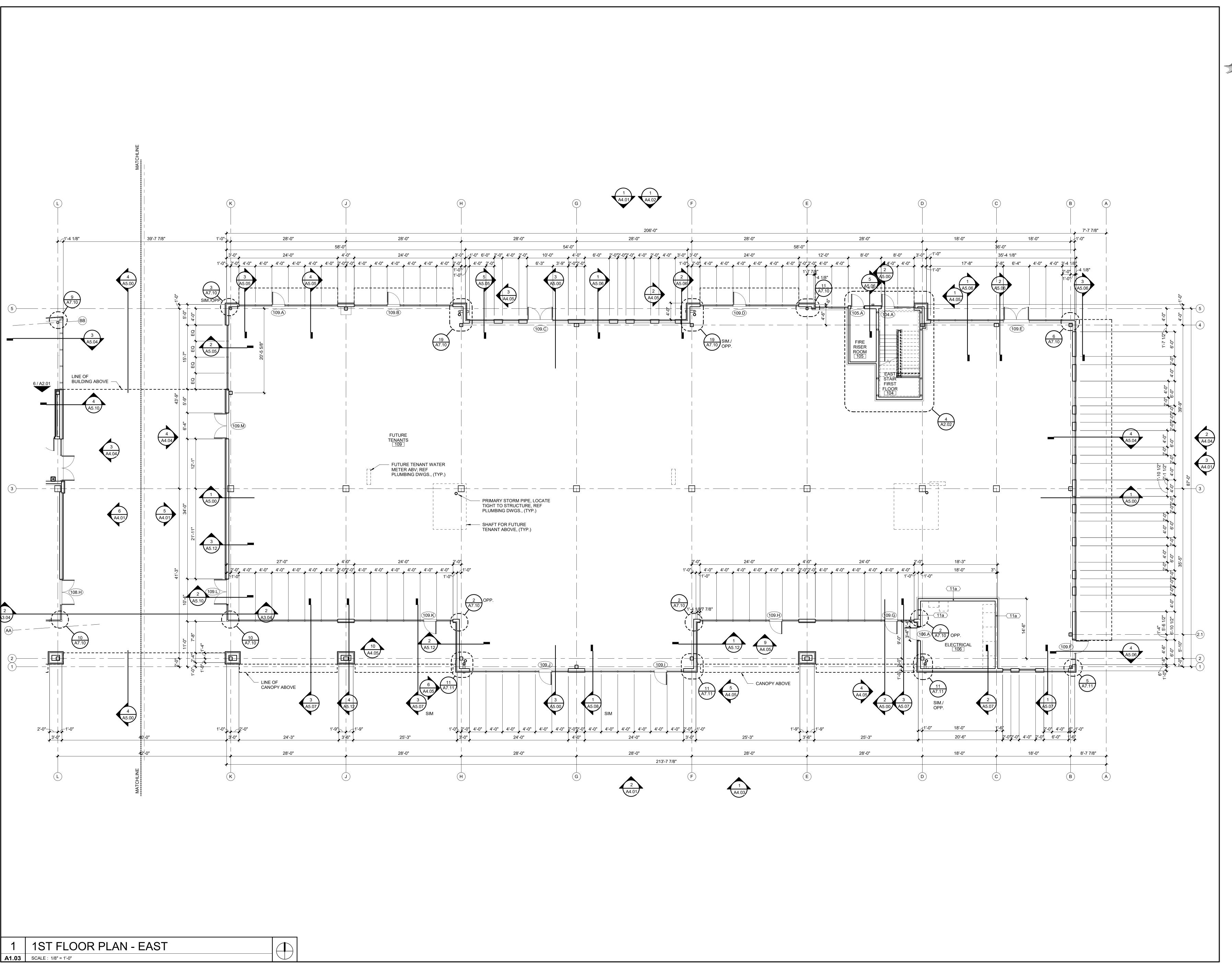
ARCHITECTURE

713+490-1330

SHEET TITLE

FIRST FLOOR PLAN - WEST

A1.02





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL **ENGINEERS** HENDERSON **ENGINEERS** HENDERSON HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

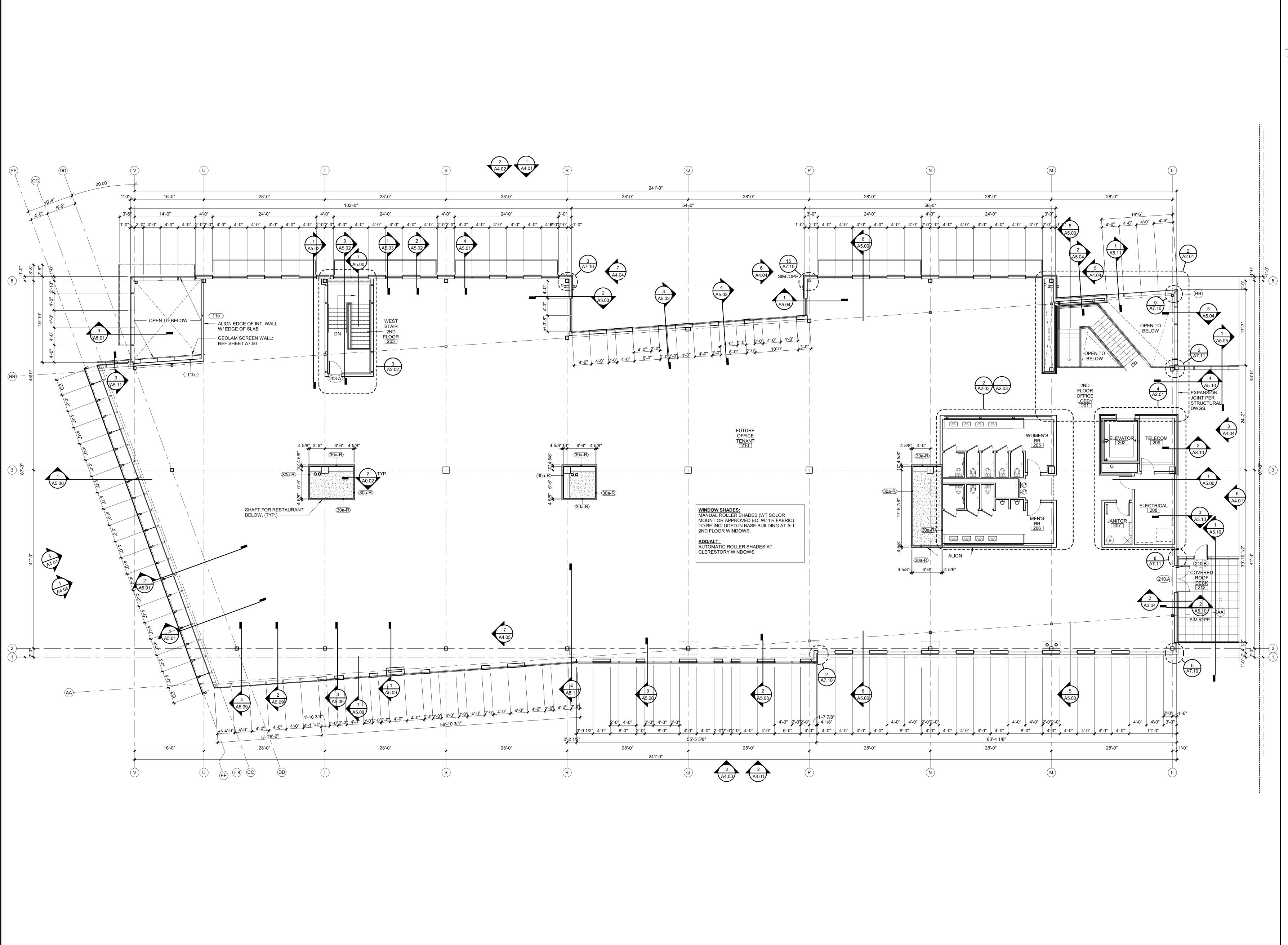
ARCHITECTURE 7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

SHEET TITLE

FIRST FLOOR

PLAN - EAST

SHEET NUMBER A1.03





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

 Project No.:
 19050.01

 Date:
 10.25.19

 Issued For:
 SHELL - CD SET

 REVISIONS

 No.
 Date
 Description

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL HENDERSON

CONTRACTOR FOGEL ANDERSON

FIRE PROTECTION HENDERSON

HENDERSON ENGINEERS

ELECTRICAL

FINKLE + WILLIAMS

7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

ARCHITECTURE

SHEET TITLE

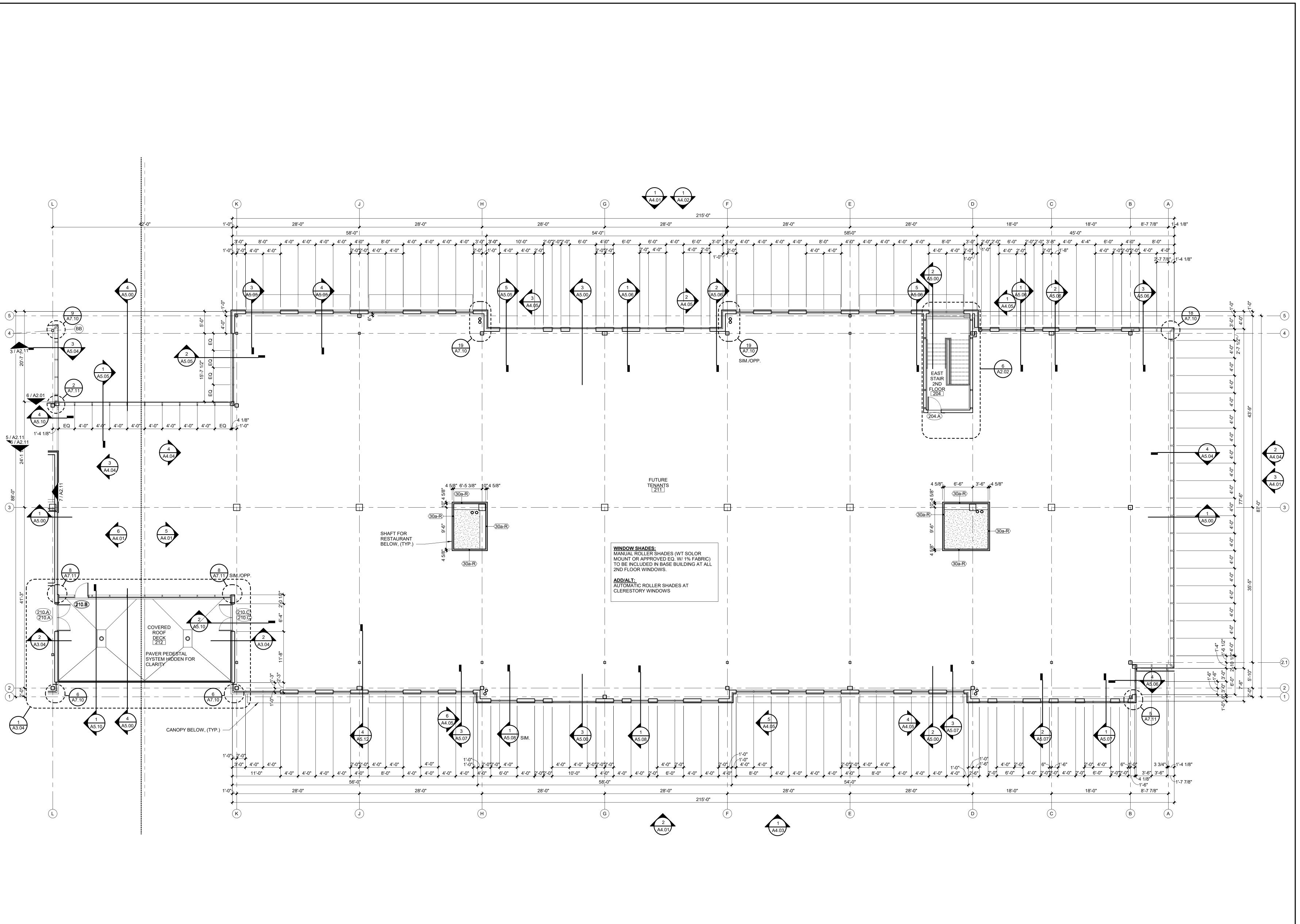
SECOND FLOOR PLAN - WEST

SHEET NUMBER

A1.04

1 2ND FLOOR PLAN - WEST

A1.04 SCALE: 1/8" = 1'-0"



2ND FLOOR PLAN - EAST

**A1.05** SCALE: 1/8" = 1'-0"



# PARAGON STAR - LOT 9 -BUILDING 2

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01

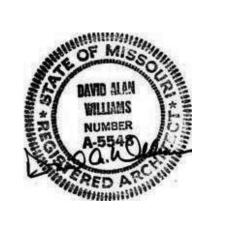
Date: 10.25.19

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REVISIONS

No. Date Description

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL STRUCTURAL **ENGINEERS** HENDERSON **ENGINEERS** HENDERSON HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

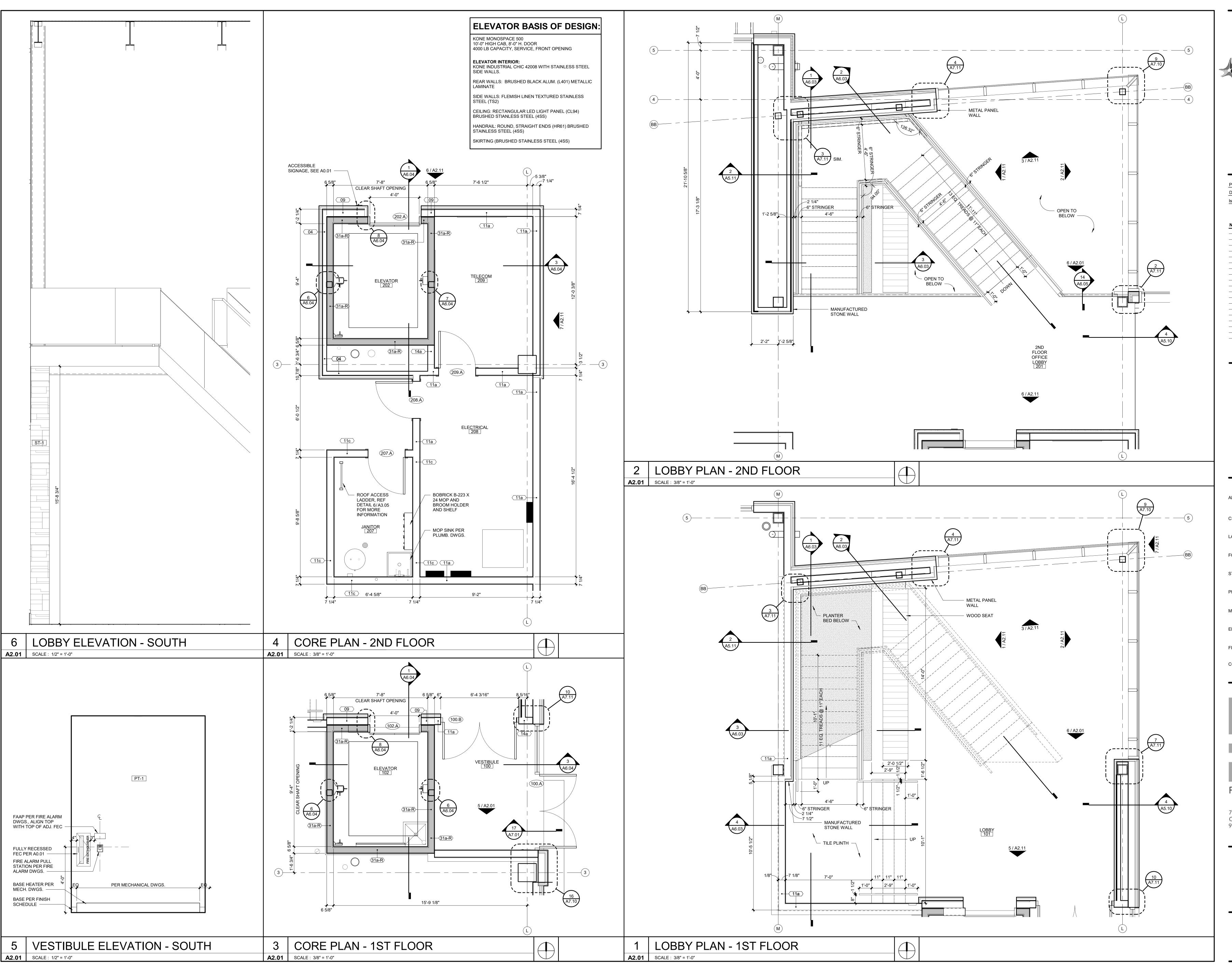
ARCHITECTURE

913+498-1550

SECOND FLOOR

PLAN - EAST

A1.05





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

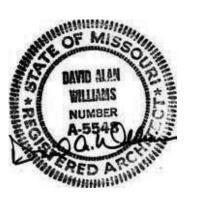
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REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS
ARCHITECTURE

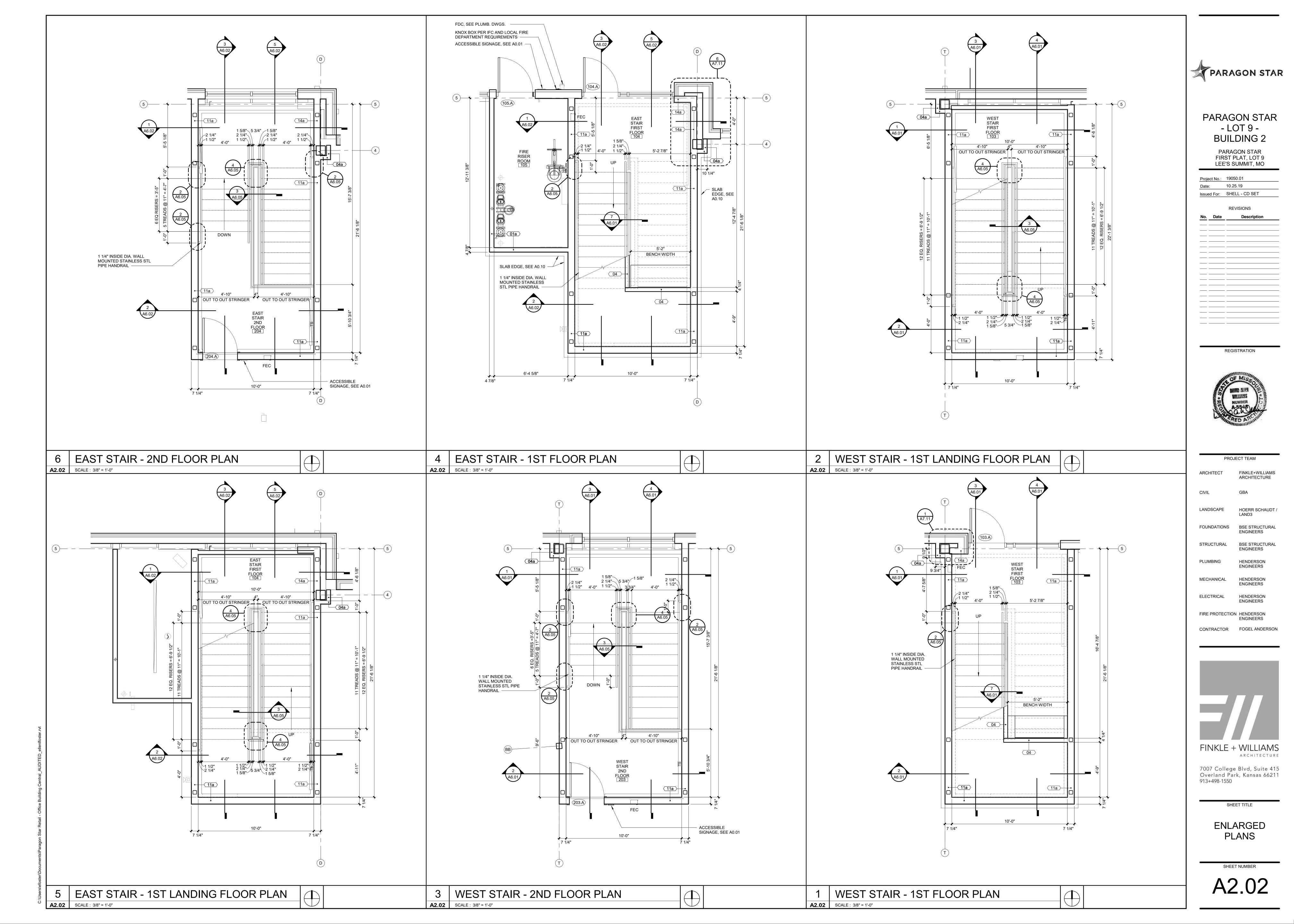
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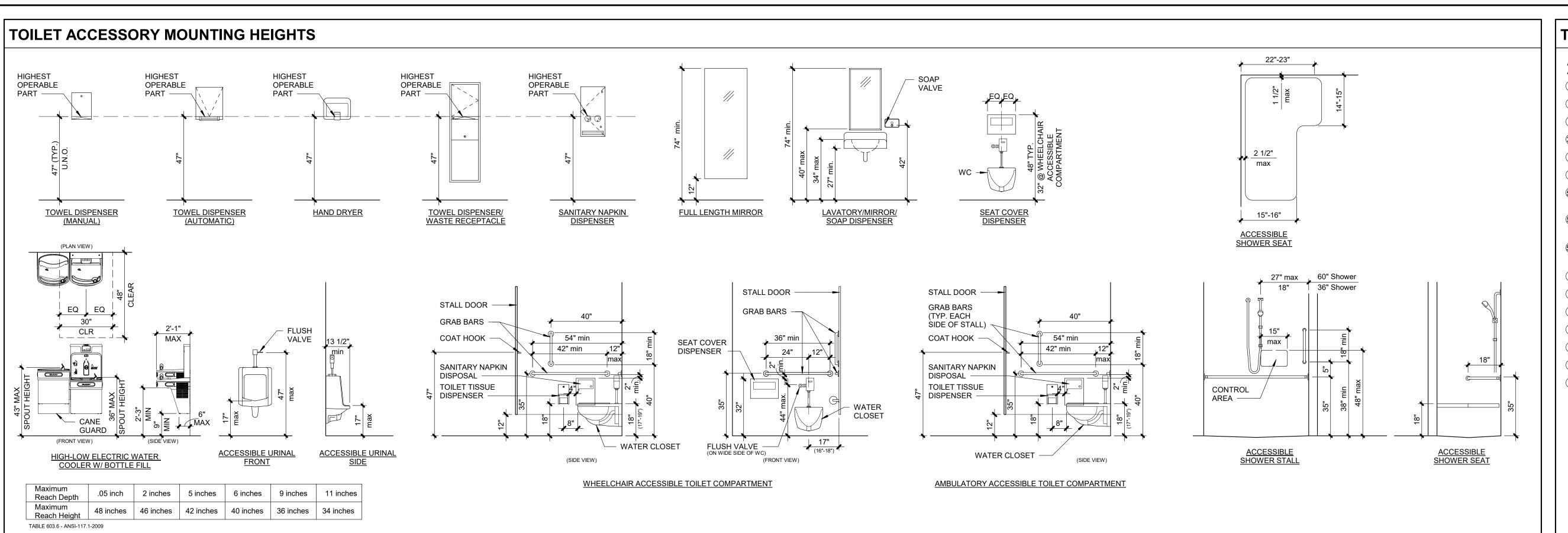
SHEET TITLE

ENLARGED

PLANS

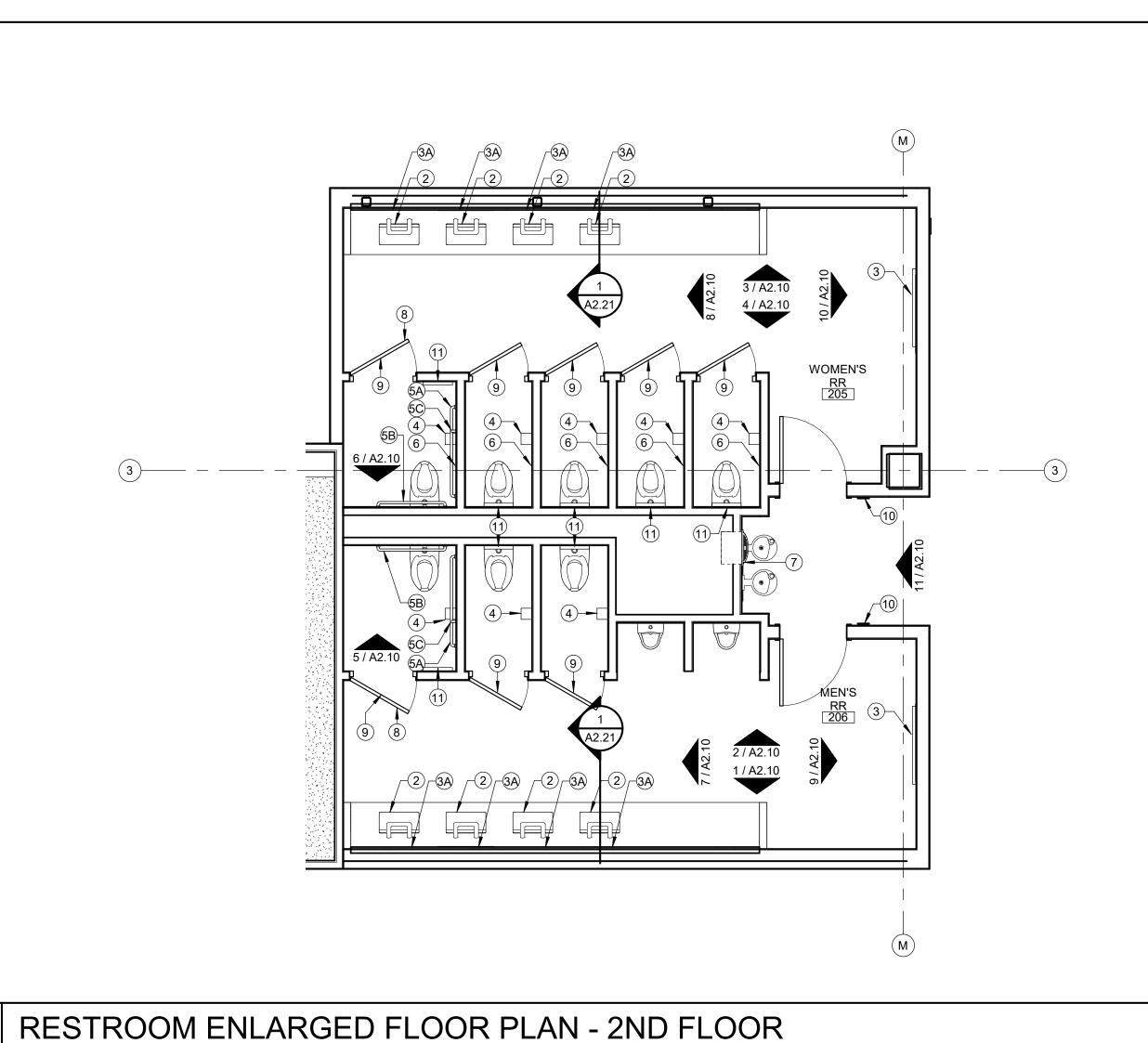
A2.01





#### TOILET ACCESSORY / EQUIPMENT LEGEND

- ALL ACCESSORIES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE. ALL ACCESSORIES SHALL BE DESIGNED TO MEET ADA STANDARDS.
- (1) COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED (BOBRICK B-3944)
- (2) UNDERMOUNT SINK KIT WITH WASHBAR (BRADLEY WB1-1B-ER1)
- (3) FRAMED MIRROR (42"W X 82"H) PER DIVISION 08
- (3A) UNFRAMED MIRROR (30"W X 58"H) PER DIVISION 08
- (4) MULTI-ROLL TOILET TISSUE DISPENSER W/NO KEYED LOCK (BOBRICK B-2888)
- (5) GRAB BARS AS SHOWN ON PLANS AND ELEVATIONS (BOBRICK B-6806 SERIES)
- (5A) GRAB BAR (BOBRICK B6806 X 42) LOCATE AS SHOWN IN ACCESSORY MOUNTING HEIGHTS
- (5B) GRAB BAR (BOBRICK B6806 X 36) LOCATE AS SHOWN IN ACCESSORY MOUNTING HEIGHTS
- (5C) GRAB BAR (BOBRICK B6806 X 18)
- LOCATE AS SHOWN IN ACCESSORY MOUNTING HEIGHTS
- (6) SANITARY NAPKIN DISPOSAL, RECESSED WALL MOUNT (BOBRICK B-353) (7) HI / LO ADA ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILL AND FILTER (ELKAY LZWS-LRPBM28K)
- (8) RUBBER TIPPED DOOR BUMBER (BOBRICK B-687)
- (9) COAT AND HAT HOOK (BOBRICK B-6827)
- (10) A.D.A. RESTROOM SIGNAGE, SEE SHEET A0.01
- (11) TOILET SEAT COVER DISPENSER (BOBRICK B-221)
- (12) 8" DIA. X 3" S.S. TRASH GROMMET (MOCKET TM2C OR EQ.)



PARAGON STAR

PARAGON STAR - LOT 9 -**BUILDING 2** 

> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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PROJECT TEAM

FINKLE+WILLIAMS LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON

> HENDERSON **ENGINEERS**

ELECTRICAL

FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

ARCHITECTURE

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SHEET TITLE

**ENLARGED** TOILET PLANS AND DETAILS

SHEET NUMBER A2.03

A2.03

CORE ENLARGED FLOOR PLAN - 2ND FLOOR

3'-7 3/4" 3'-3 7/8" 3'-4 7/8" 1'-10 7/8" 1'-6" 1'-6" 1'-6" 1'-6" 1'-6" 5

04c \ 14a \

**A2.03** SCALE: 1/4" = 1'-0"

COMMUNICATION DEVICE. SEE 4/A6.02



PARAGON STAR

PARAGON STAR - LOT 9 -**BUILDING 2** 

PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

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PROJECT TEAM FINKLE+WILLIAMS

HOERR SCHAUDT /

**BSE STRUCTURAL ENGINEERS** 

**ENGINEERS** HENDERSON

**ENGINEERS** 

HENDERSON

HENDERSON

**ENGINEERS** FIRE PROTECTION HENDERSON ENGINEERS

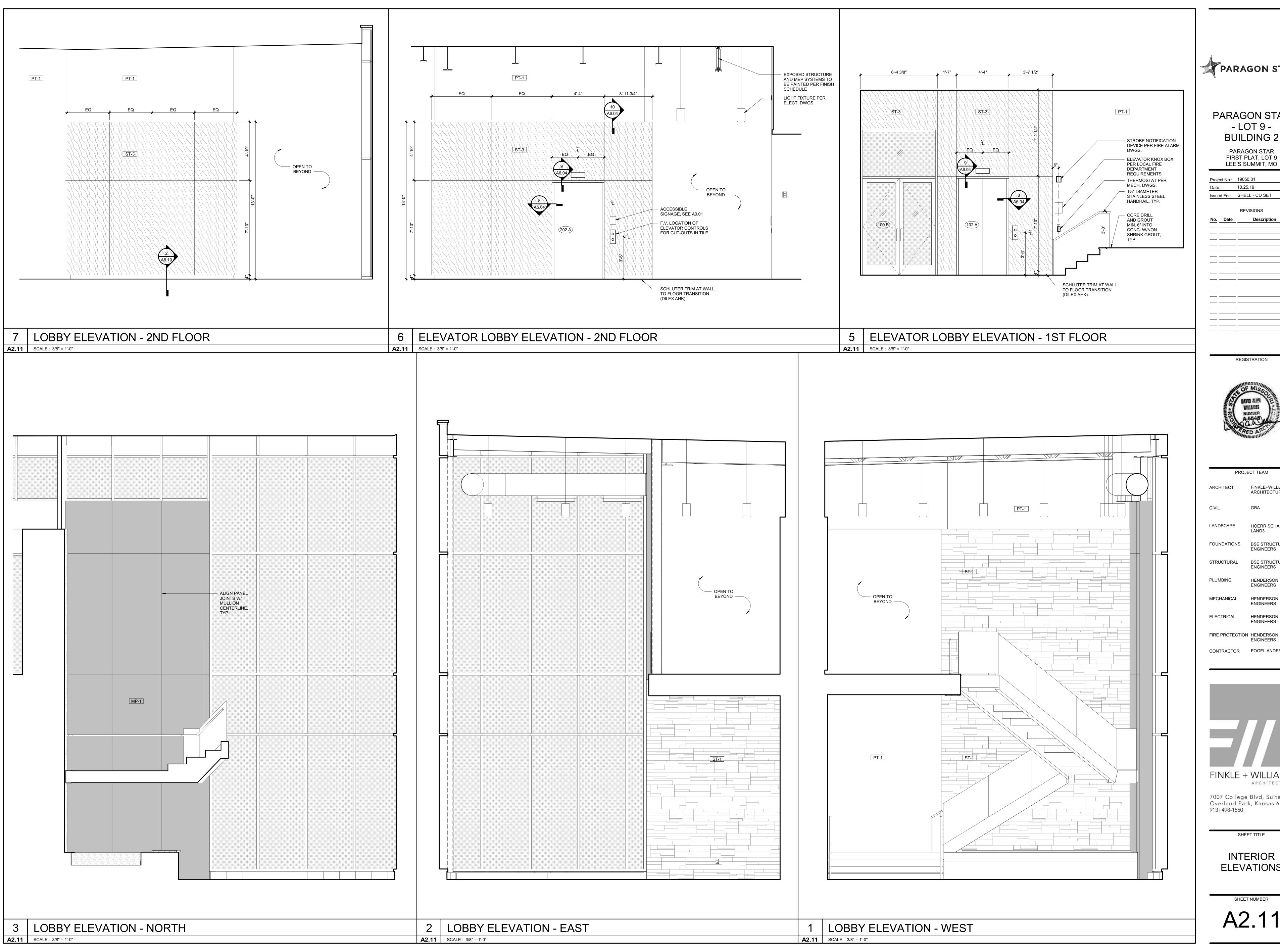
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SHEET TITLE

INTERIOR **ELEVATIONS** 

SHEET NUMBER A2.10



PARAGON STAR

PARAGON STAR - LOT 9 -**BUILDING 2** 

PARAGON STAR FIRST PLAT, LOT 9

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PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE

LANDSCAPE HOERR SCHAUDT /

FOUNDATIONS BSE STRUCTURAL BSE STRUCTURAL

**ENGINEERS** HENDERSON **ENGINEERS** 

HENDERSON

**ENGINEERS** FIRE PROTECTION HENDERSON

HENDERSON

CONTRACTOR FOGEL ANDERSON

ARCHITECTURE

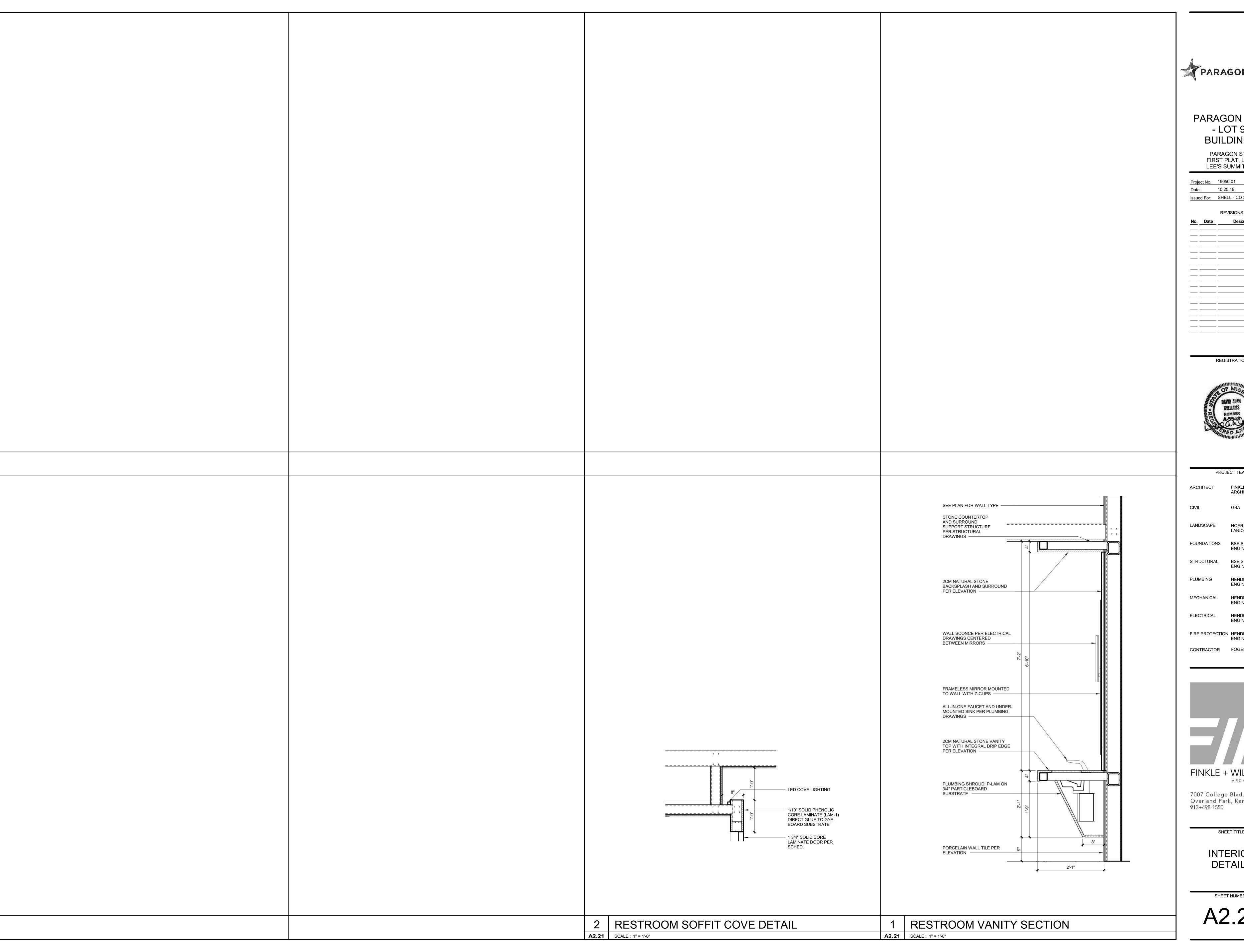
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INTERIOR **ELEVATIONS** 

SHEET TITLE

SHEET NUMBER

A2.11





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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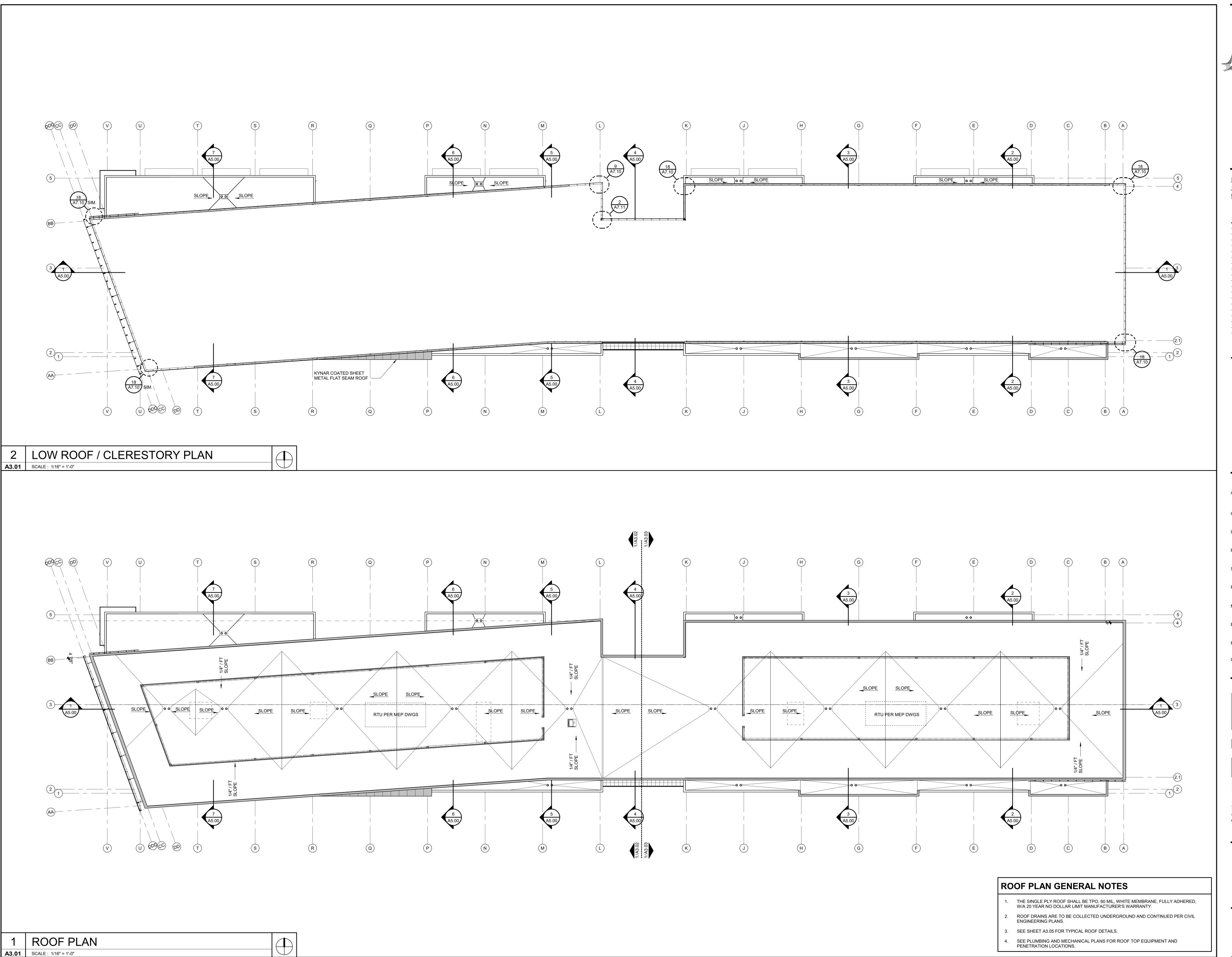


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SHEET TITLE

INTERIOR **DETAILS** 

SHEET NUMBER A2.21





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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FINKLE + WILLIAMS

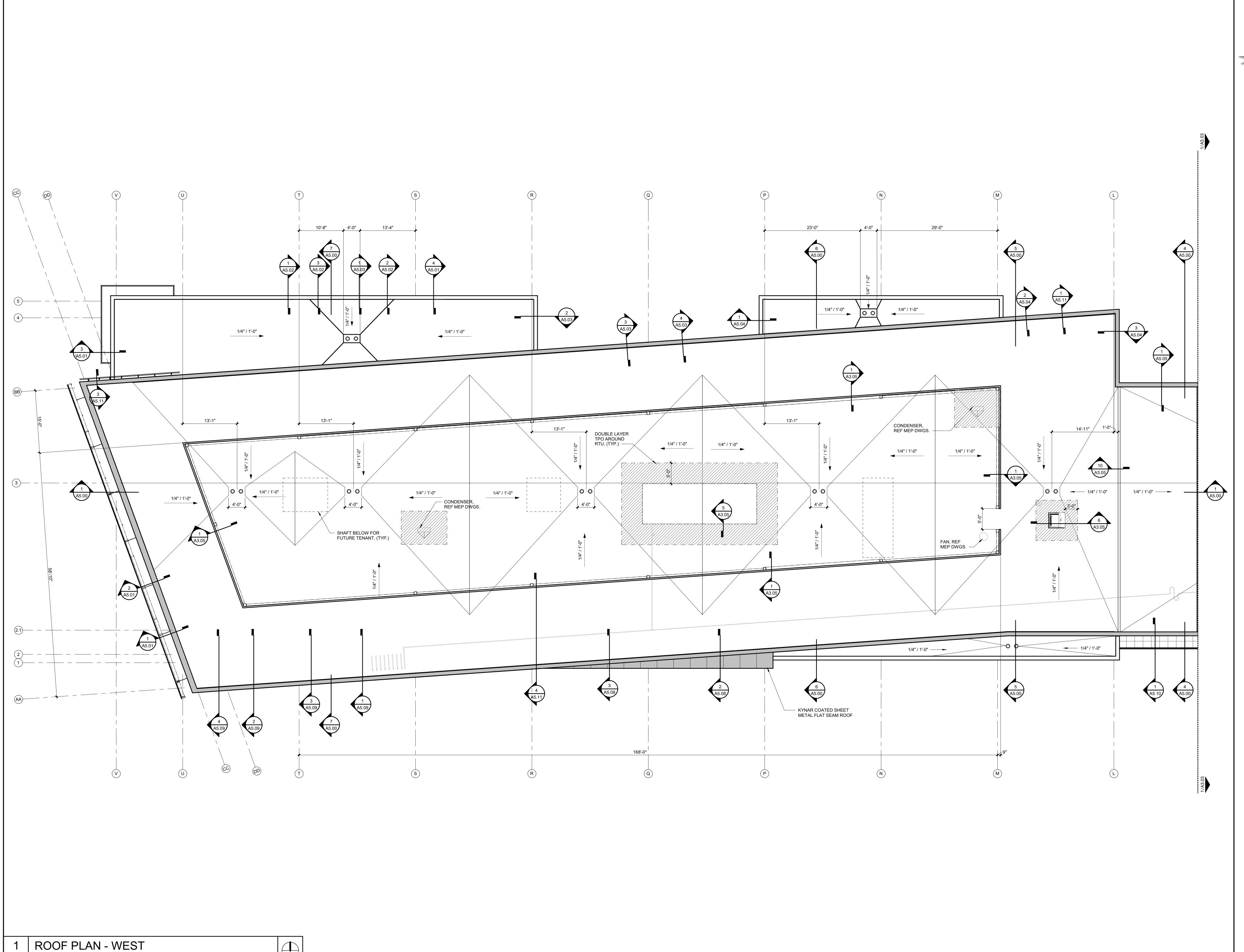
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SHEET TITLE

OVERALL ROOF PLAN

SHEET NUMBER



**A3.02** SCALE: 1/8" = 1'-0"



# PARAGON STAR - LOT 9 -BUILDING 2

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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PROJECT TEAM

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CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

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FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS
ARCHITECTURE

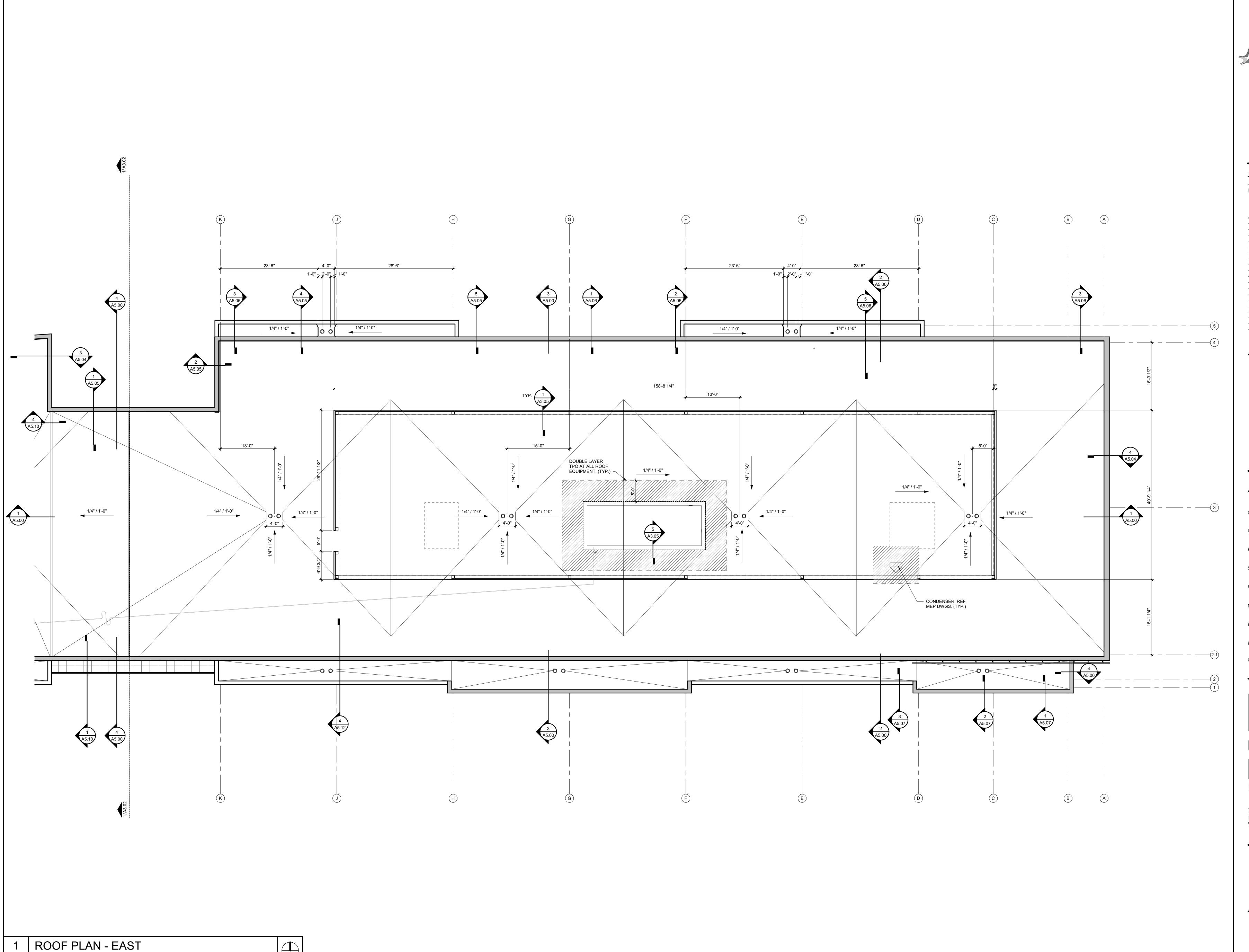
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SHEET TITLE

ROOF PLAN

WEST



**A3.03** SCALE: 1/8" = 1'-0"



### PARAGON STAR - LOT 9 -**BUILDING 2**

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 Date: 10.25.19 Issued For: SHELL - CD SET REVISIONS

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL ENGINEERS STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON ENGINEERS CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS ARCHITECTURE

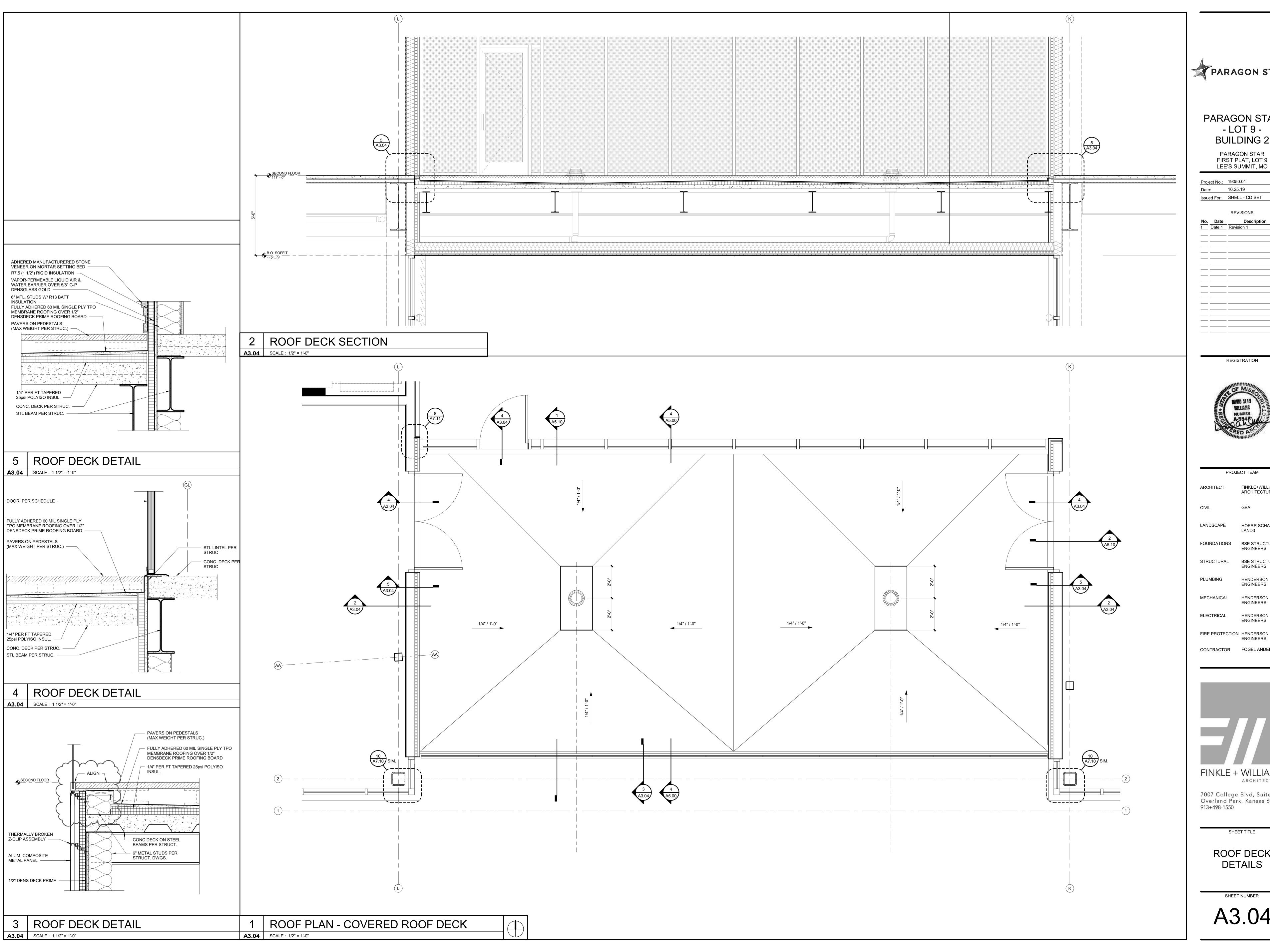
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SHEET TITLE

EAST

**ROOF PLAN** 

SHEET NUMBER





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO 10.25.19

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HOERR SCHAUDT /

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STRUCTURAL **BSE STRUCTURAL ENGINEERS** HENDERSON

**ENGINEERS** MECHANICAL HENDERSON

ELECTRICAL HENDERSON **ENGINEERS** 

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

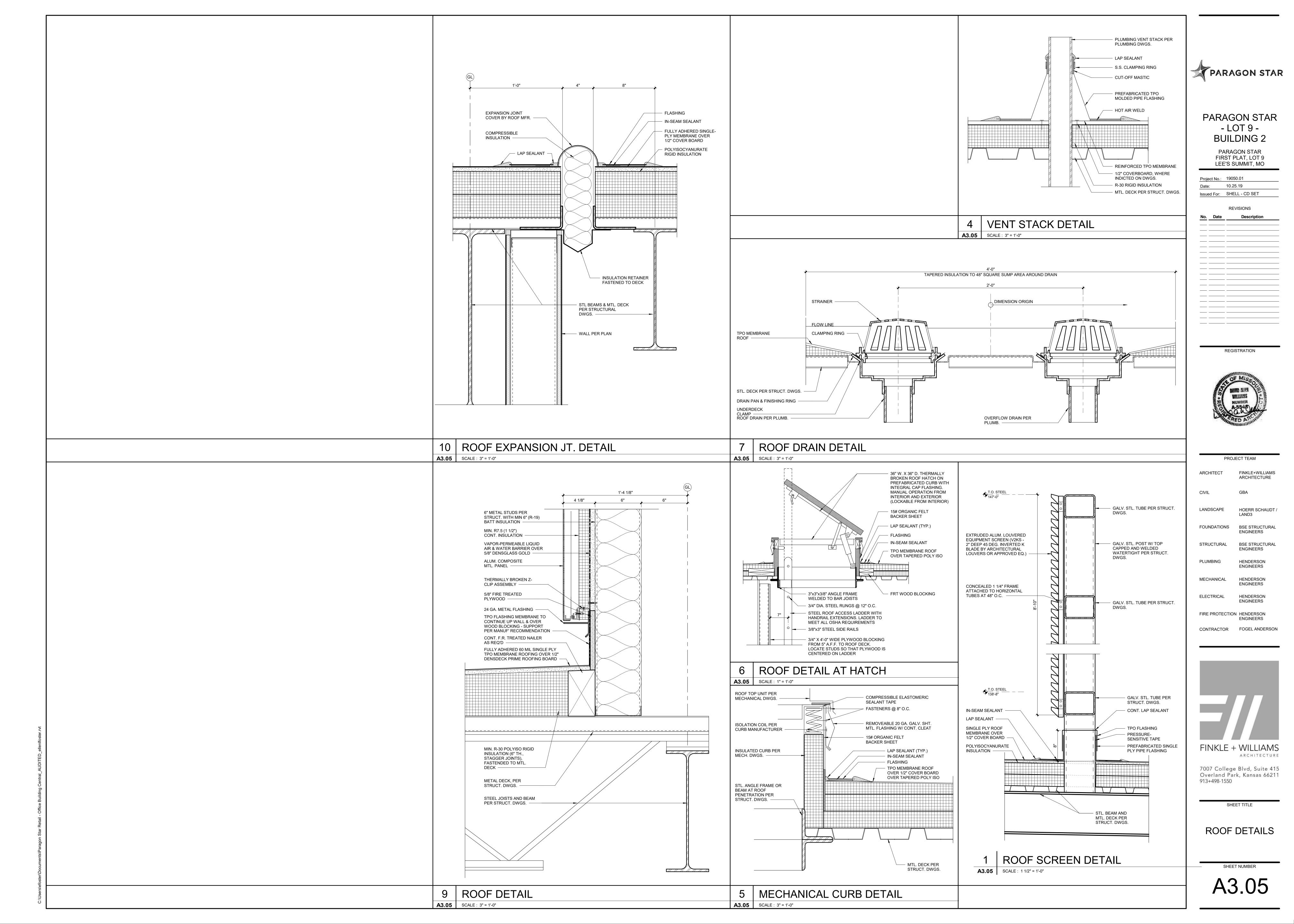
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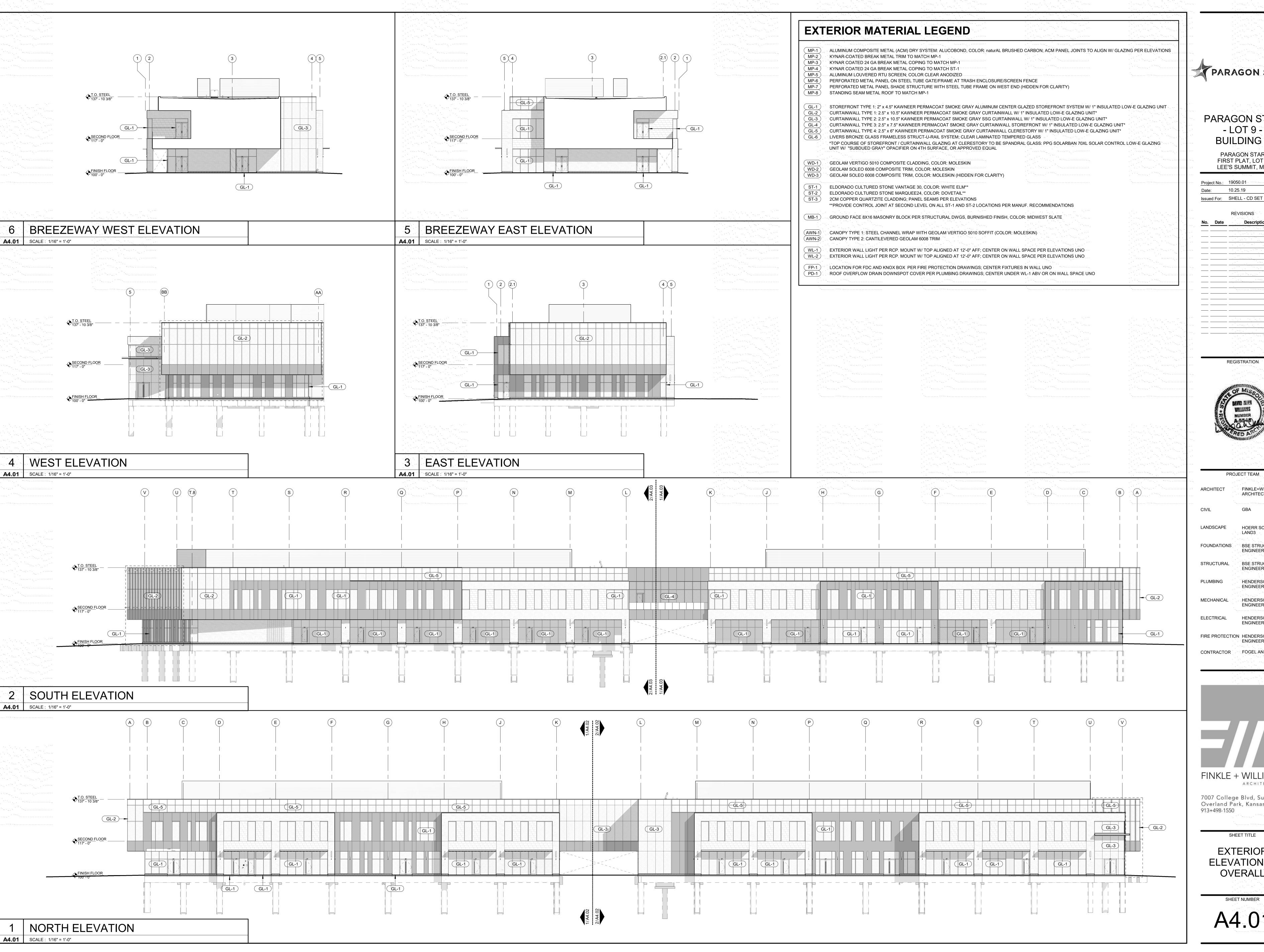
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ROOF DECK

SHEET TITLE

**DETAILS** 





PARAGON STAR

PARAGON STAR - LOT 9 -**BUILDING 2** 

PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

10.25.19

REGISTRATION

PROJECT TEAM

FINKLE+WILLIAMS

HOERR SCHAUDT /

FOUNDATIONS BSE STRUCTURAL

**ENGINEERS** 

HENDERSON

ENGINEERS

HENDERSON

HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON

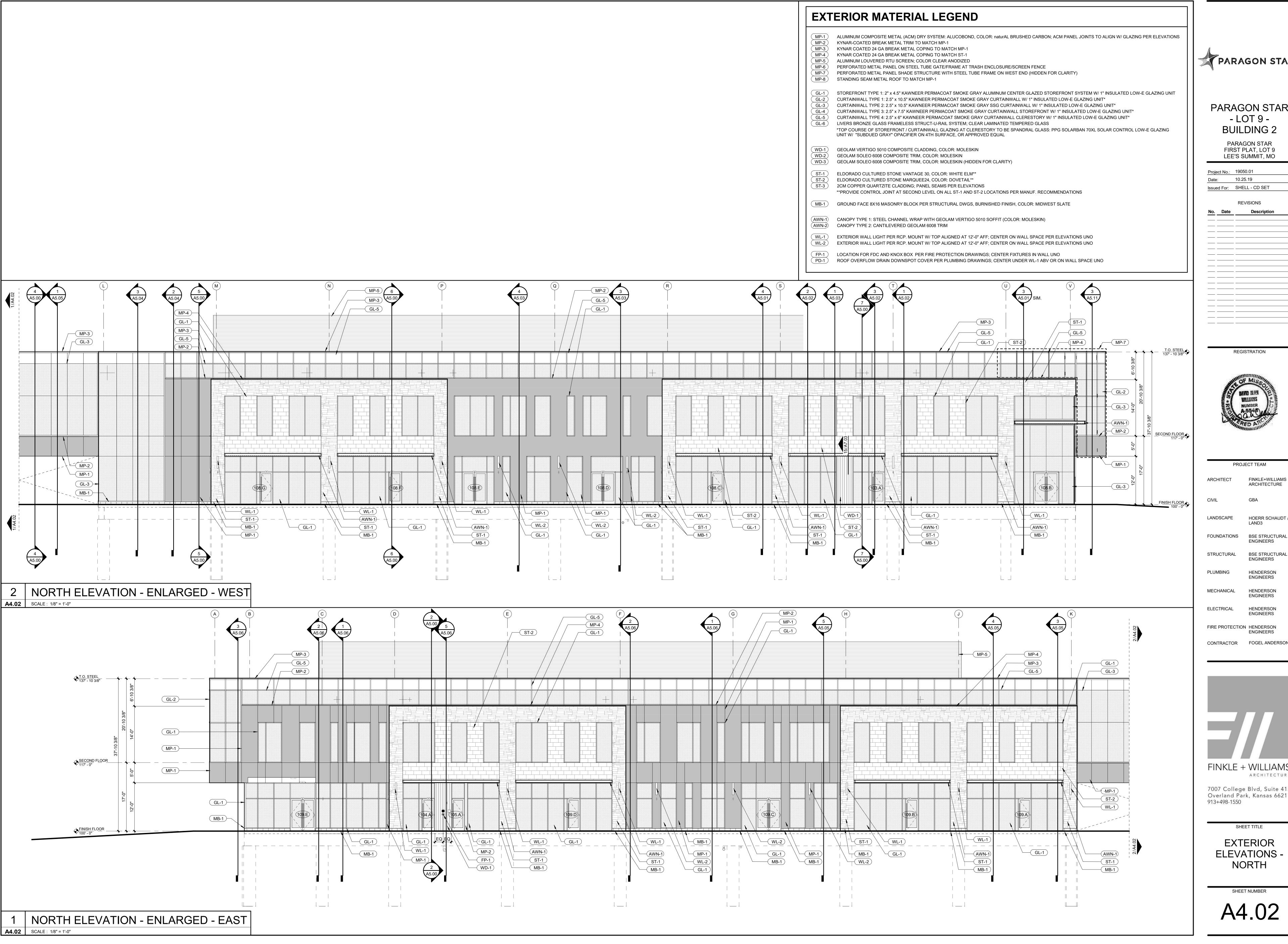
CONTRACTOR FOGEL ANDERSON

ARCHITECTURE 7007 College Blvd, Suite 415 Overland Park, Kansas 66211

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SHEET TITLE

EXTERIOR **ELEVATIONS** -OVERALL





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS



PROJECT TEAM FINKLE+WILLIAMS

HOERR SCHAUDT /

BSE STRUCTURAL **ENGINEERS** HENDERSON

**ENGINEERS** HENDERSON

HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

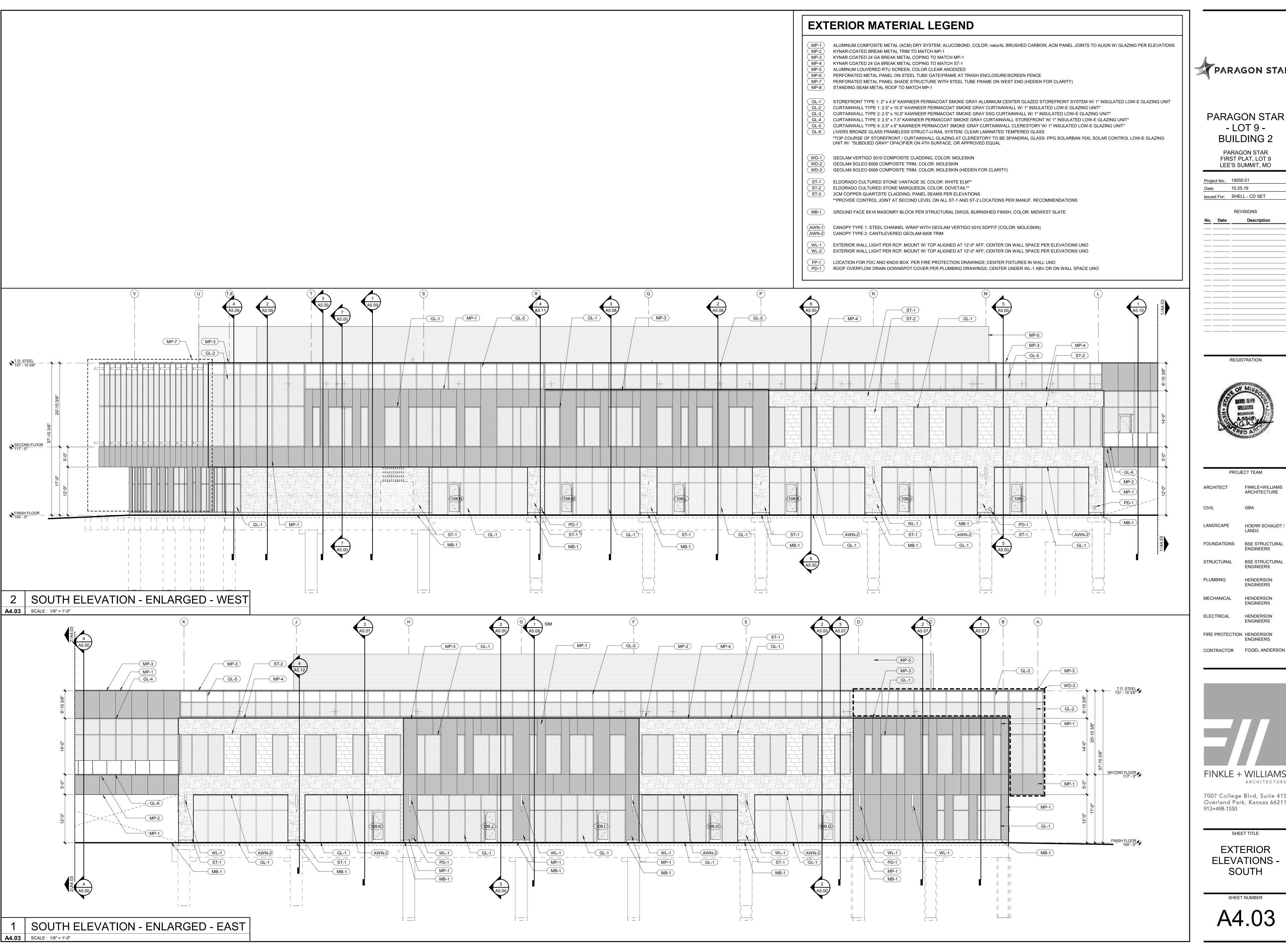
ARCHITECTURE

7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

SHEET TITLE **EXTERIOR** 

**ELEVATIONS -**NORTH

A4.02

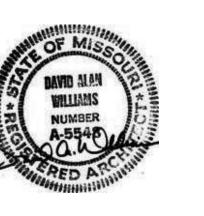




PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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PROJECT TEAM

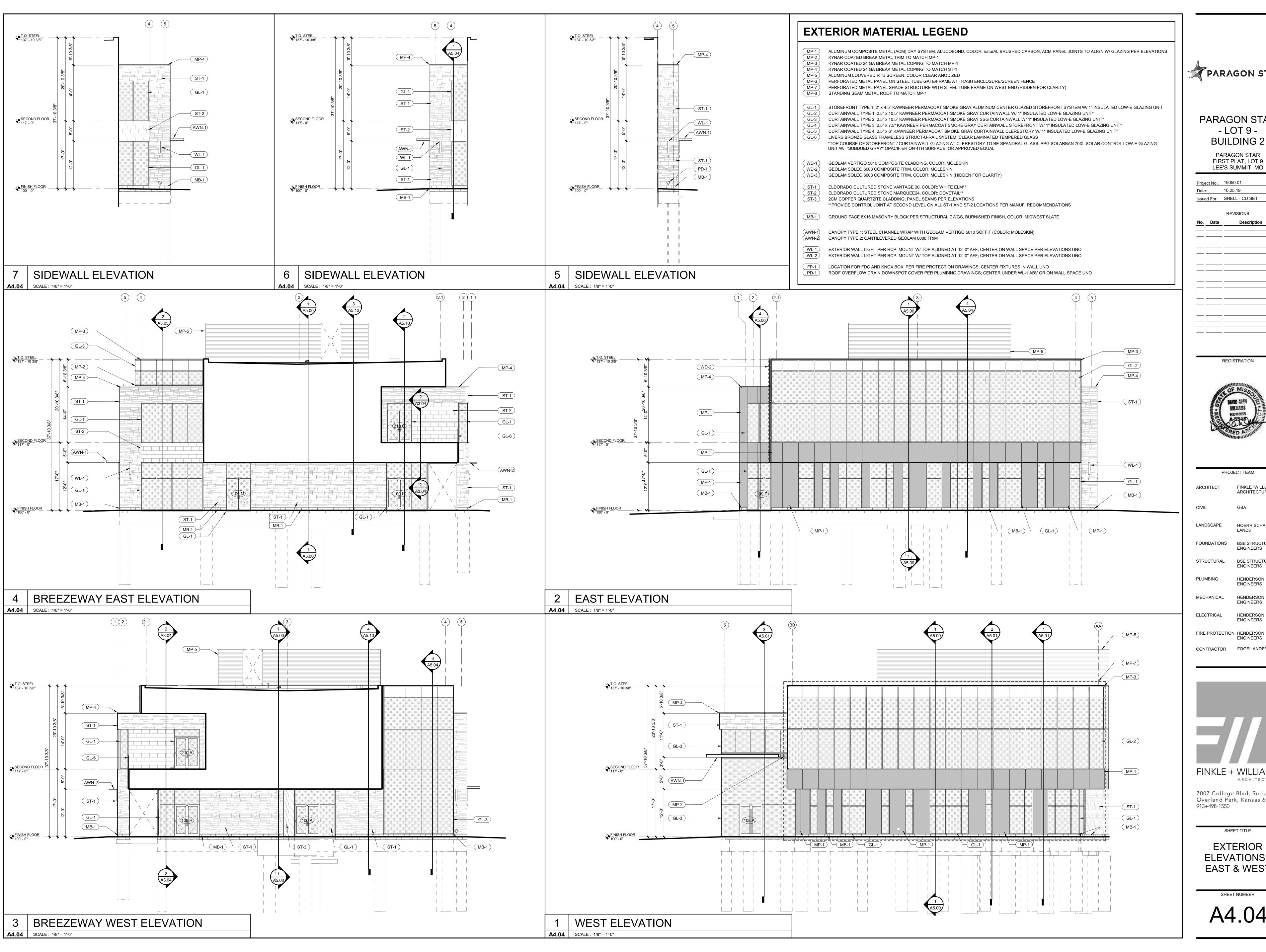
FINKLE+WILLIAMS

HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL BSE STRUCTURAL **ENGINEERS** HENDERSON HENDERSON

ARCHITECTURE 7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

SHEET TITLE **EXTERIOR** 

**ELEVATIONS -**SOUTH





PARAGON STAR FIRST PLAT, LOT 9

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FINKLE+WILLIAMS HOERR SCHAUDT / BSE STRUCTURAL

PROJECT TEAM

**ENGINEERS** 

HENDERSON

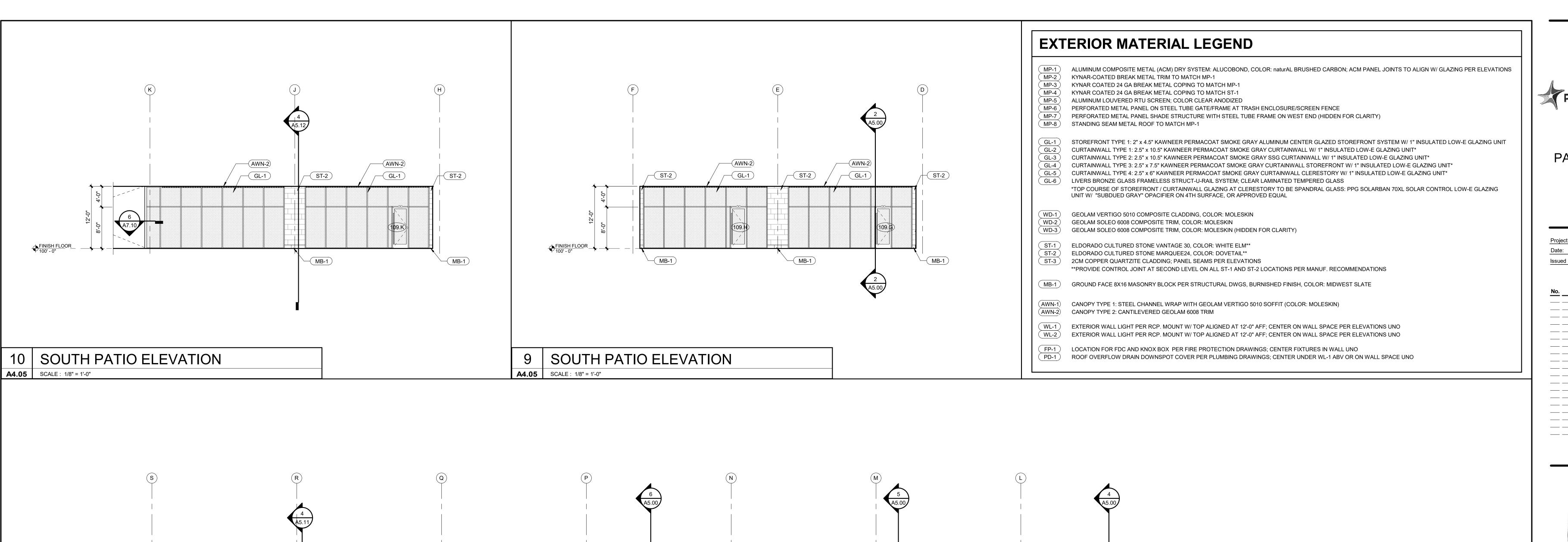
FIRE PROTECTION HENDERSON

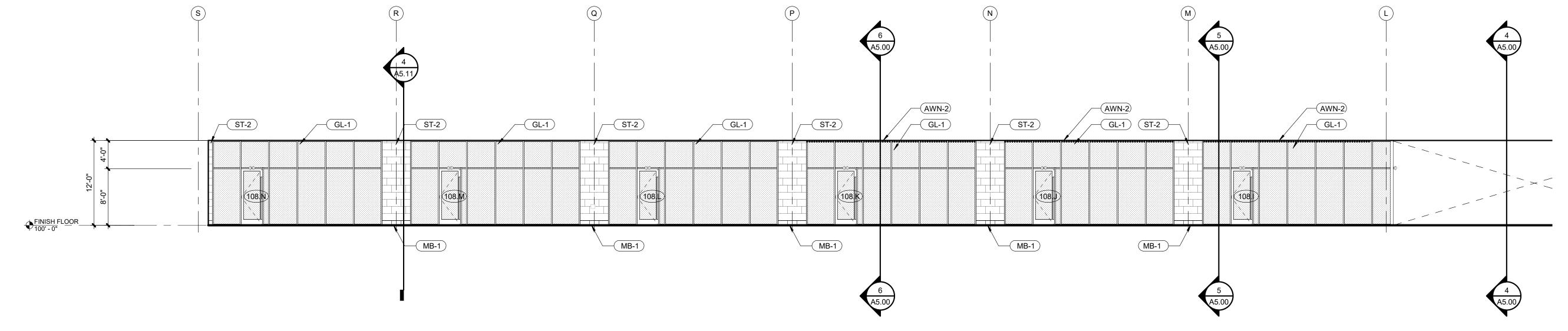
CONTRACTOR FOGEL ANDERSON

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**EXTERIOR ELEVATIONS -**EAST & WEST

SHEET TITLE

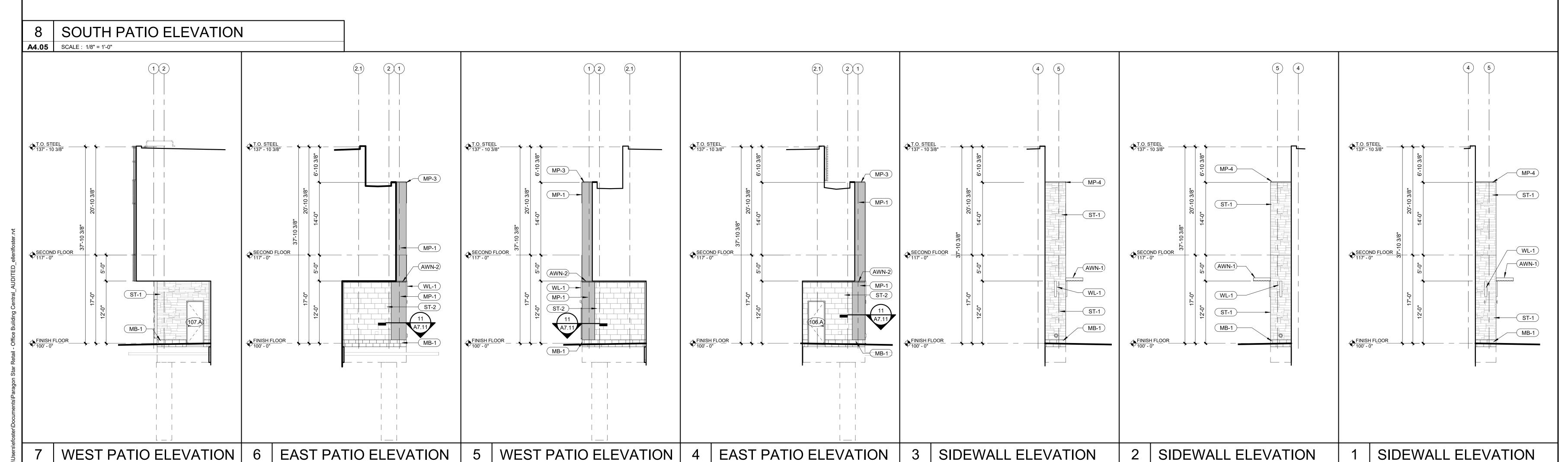




**A4.05** SCALE: 1/8" = 1'-0"

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

**A4.05** SCALE: 1/8" = 1'-0"



**A4.05** SCALE: 1/8" = 1'-0"

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A4.05

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



#### PARAGON STAR - LOT 9 -BUILDING 2

PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

 Project No.:
 19050.01

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PROJECT TEAM

FINKLE+WILLIAMS

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

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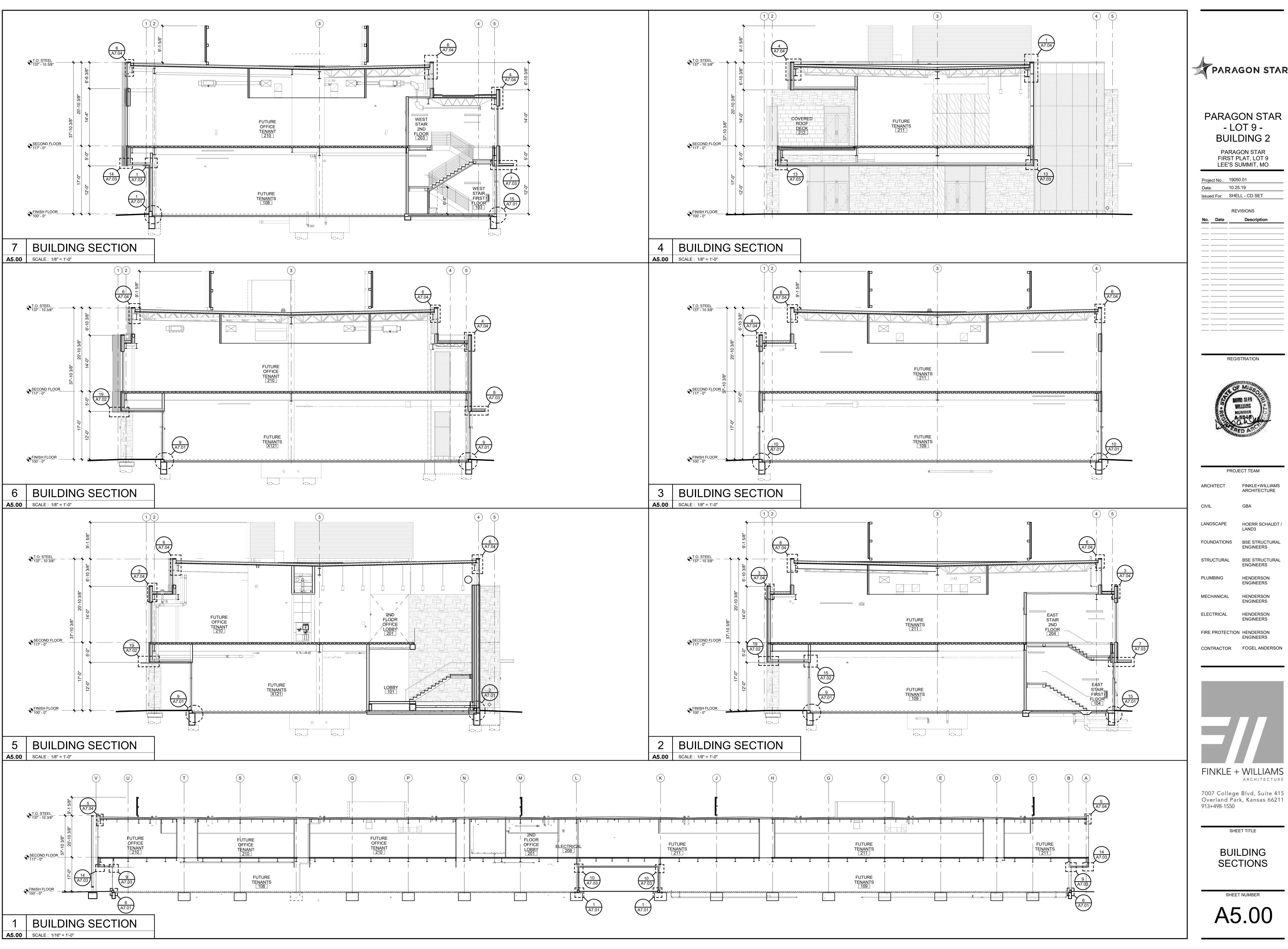
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EXTERIOR ELEVATIONS -

SHEET NUMBER

A4.05

**A4.05** SCALE: 1/8" = 1'-0"



PARAGON STAR

PARAGON STAR - LOT 9 -

**BUILDING 2** PARAGON STAR

Issued For: SHELL - CD SET

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PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE

HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL ENGINEERS

> BSE STRUCTURAL **ENGINEERS**

HENDERSON **ENGINEERS** HENDERSON

ELECTRICAL HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON ENGINEERS

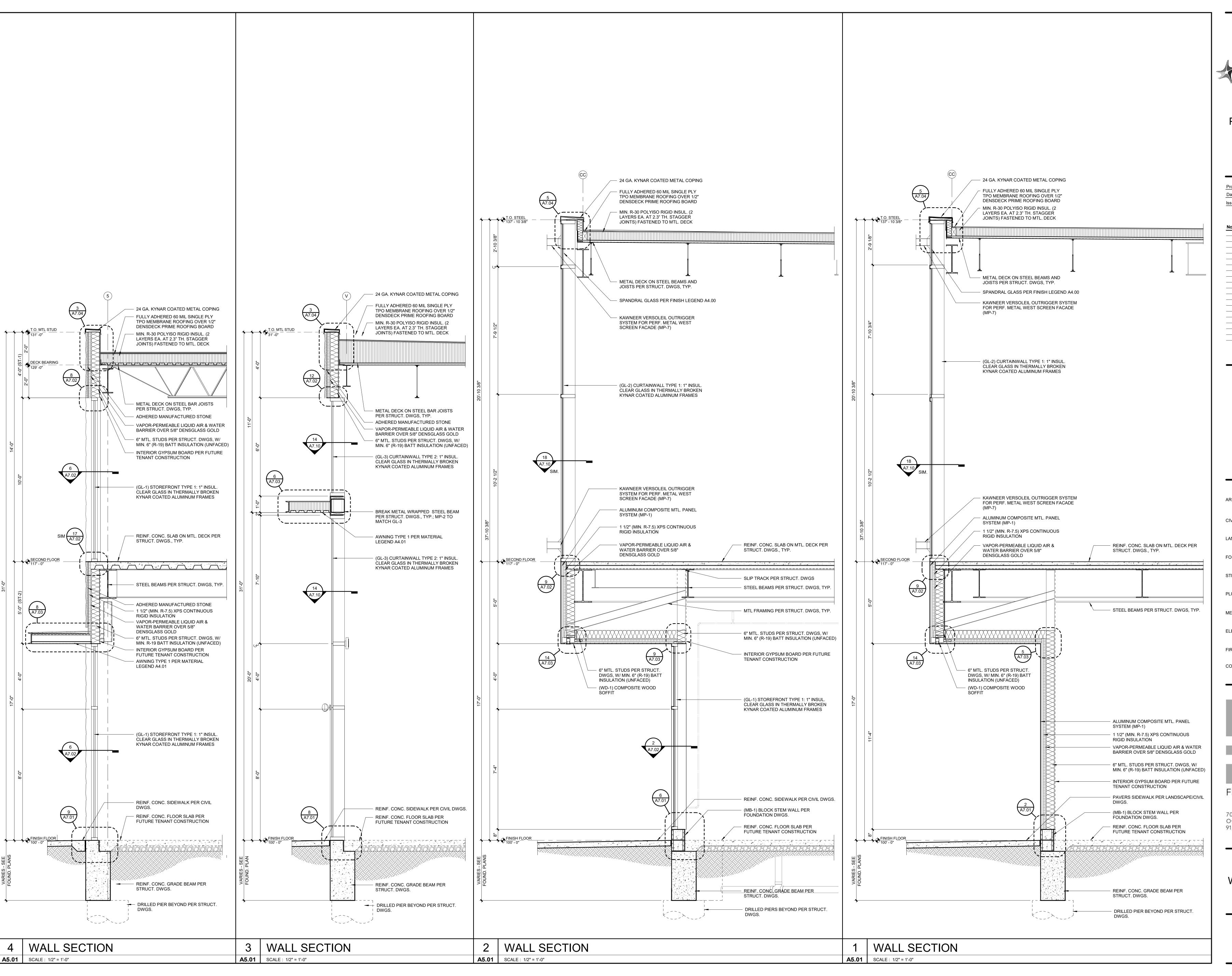
CONTRACTOR FOGEL ANDERSON

ARCHITECTURE

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BUILDING SECTIONS

SHEET TITLE





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

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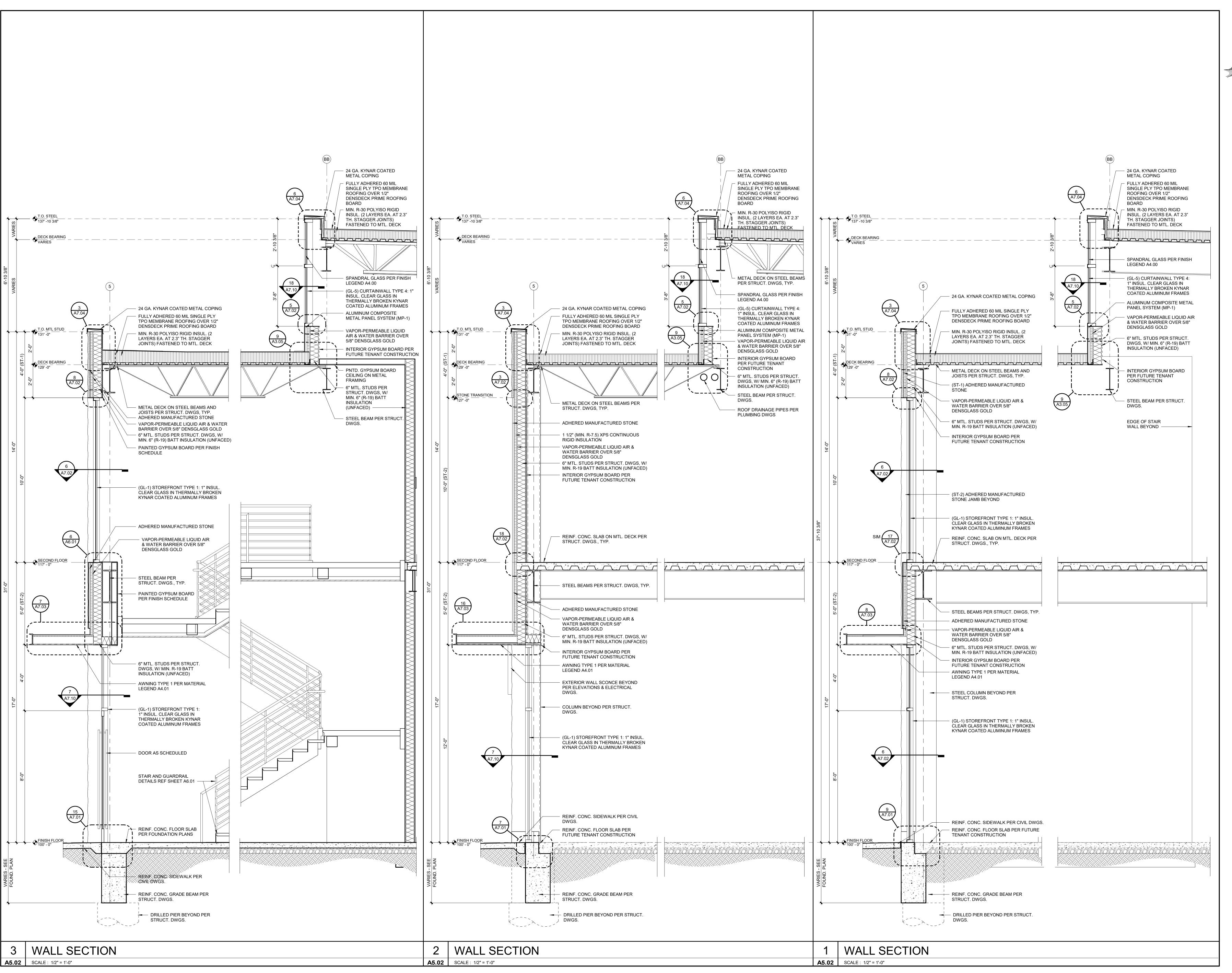
PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

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SHEET TITLE

WALL SECTIONS





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

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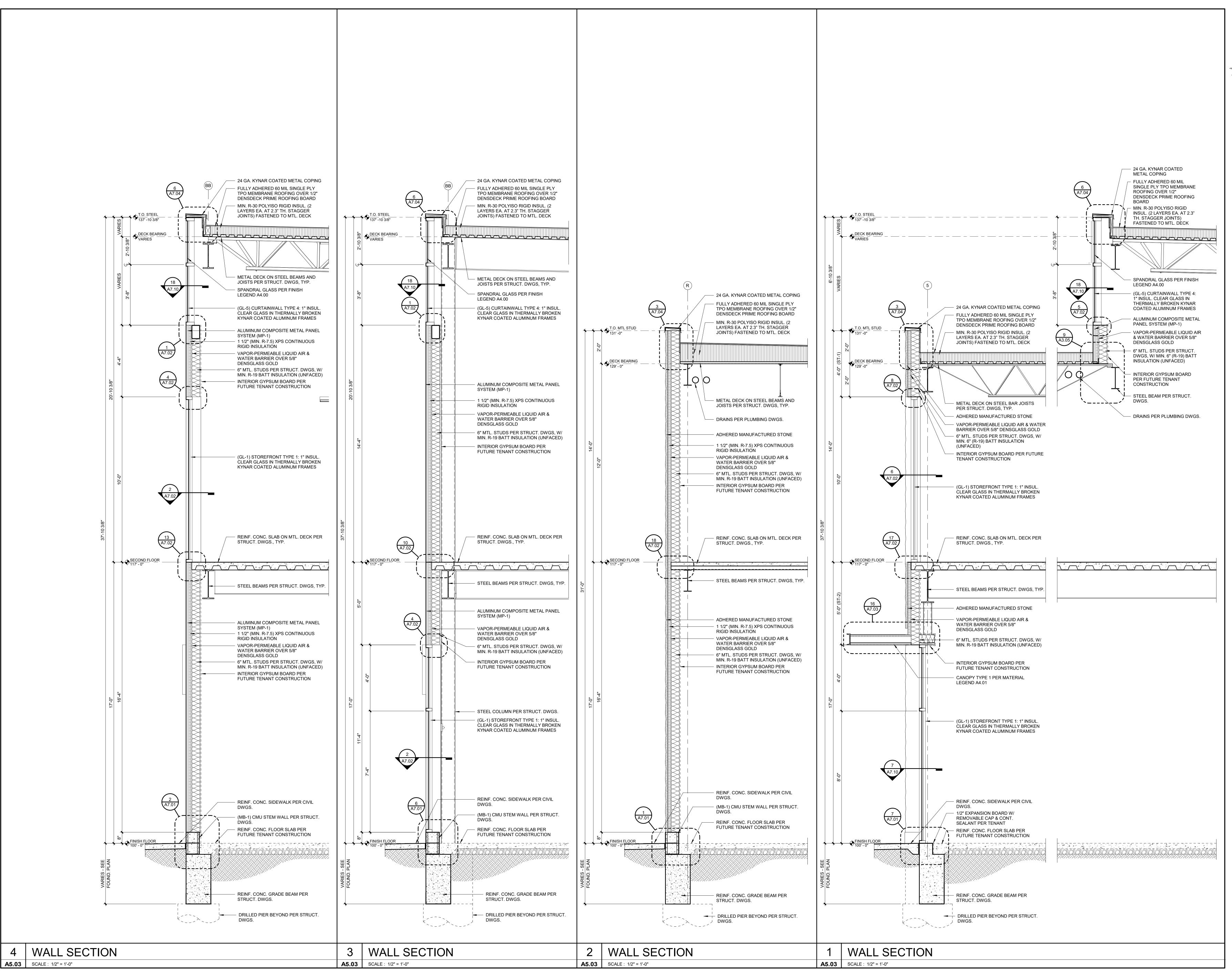
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SHEET TITLE

WALL SECTIONS





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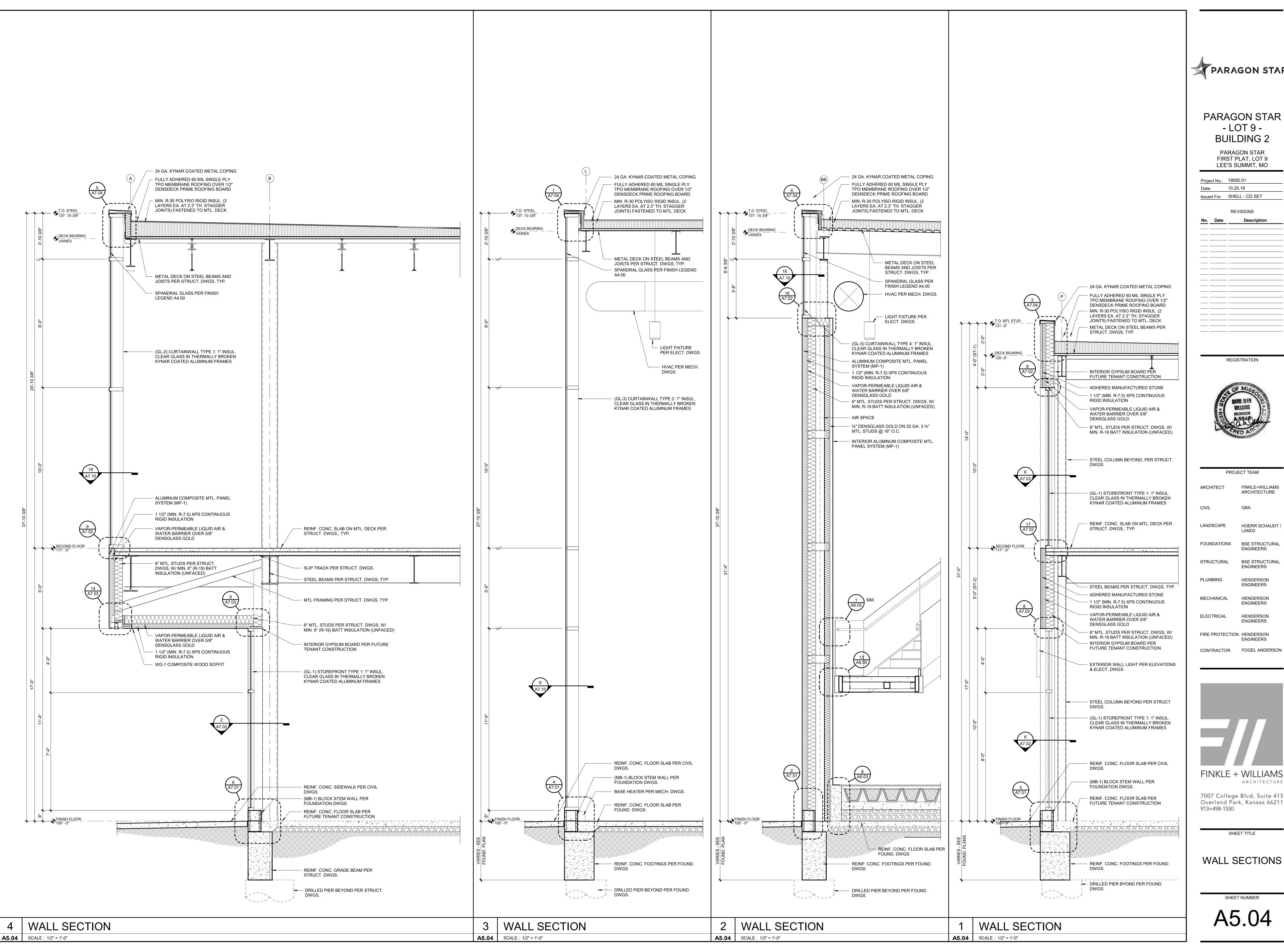
PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL ENGINEERS PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

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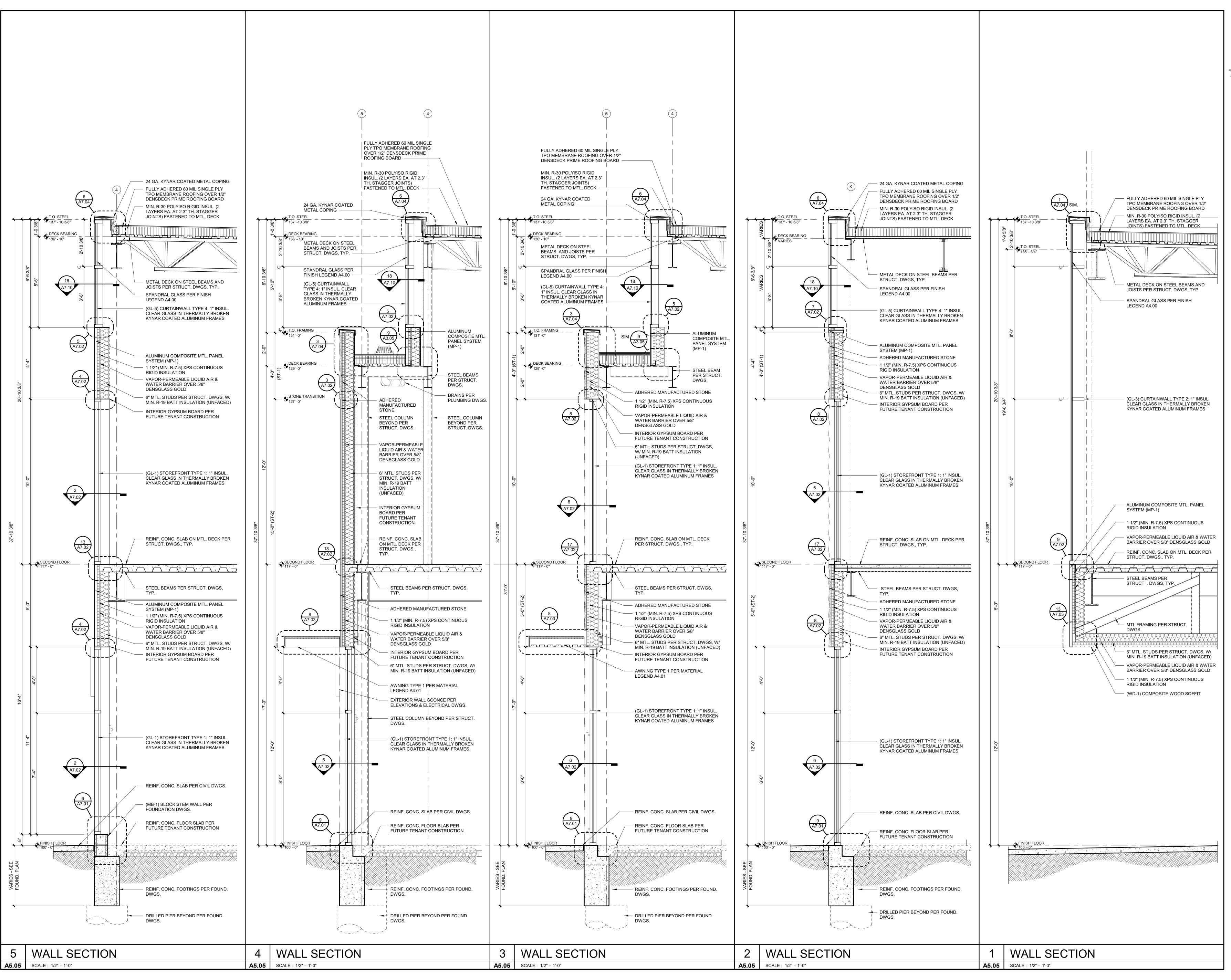
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WALL SECTIONS

SHEET TITLE

SHEET NUMBER





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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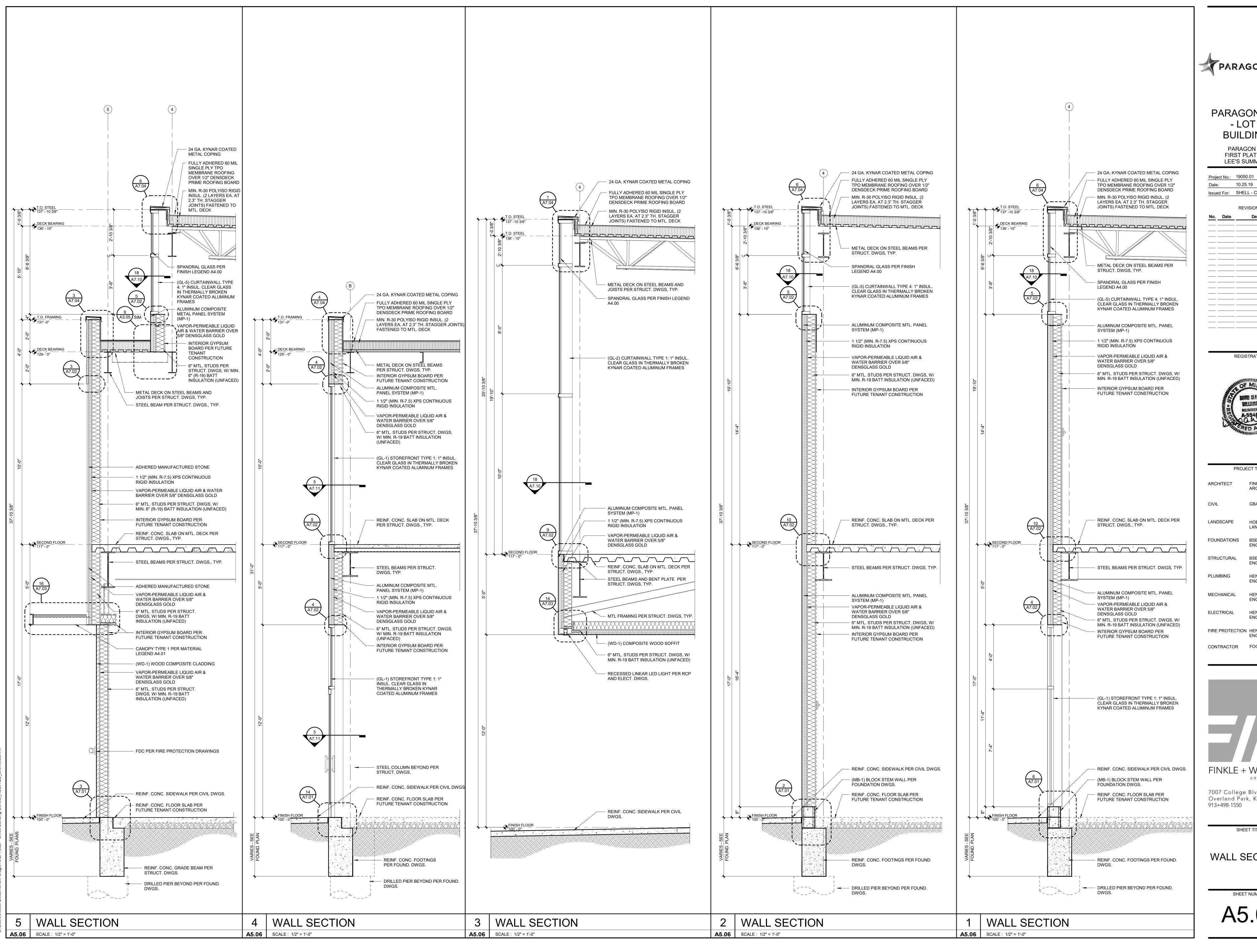
PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL ENGINEERS PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

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WALL SECTIONS



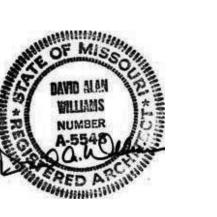


PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

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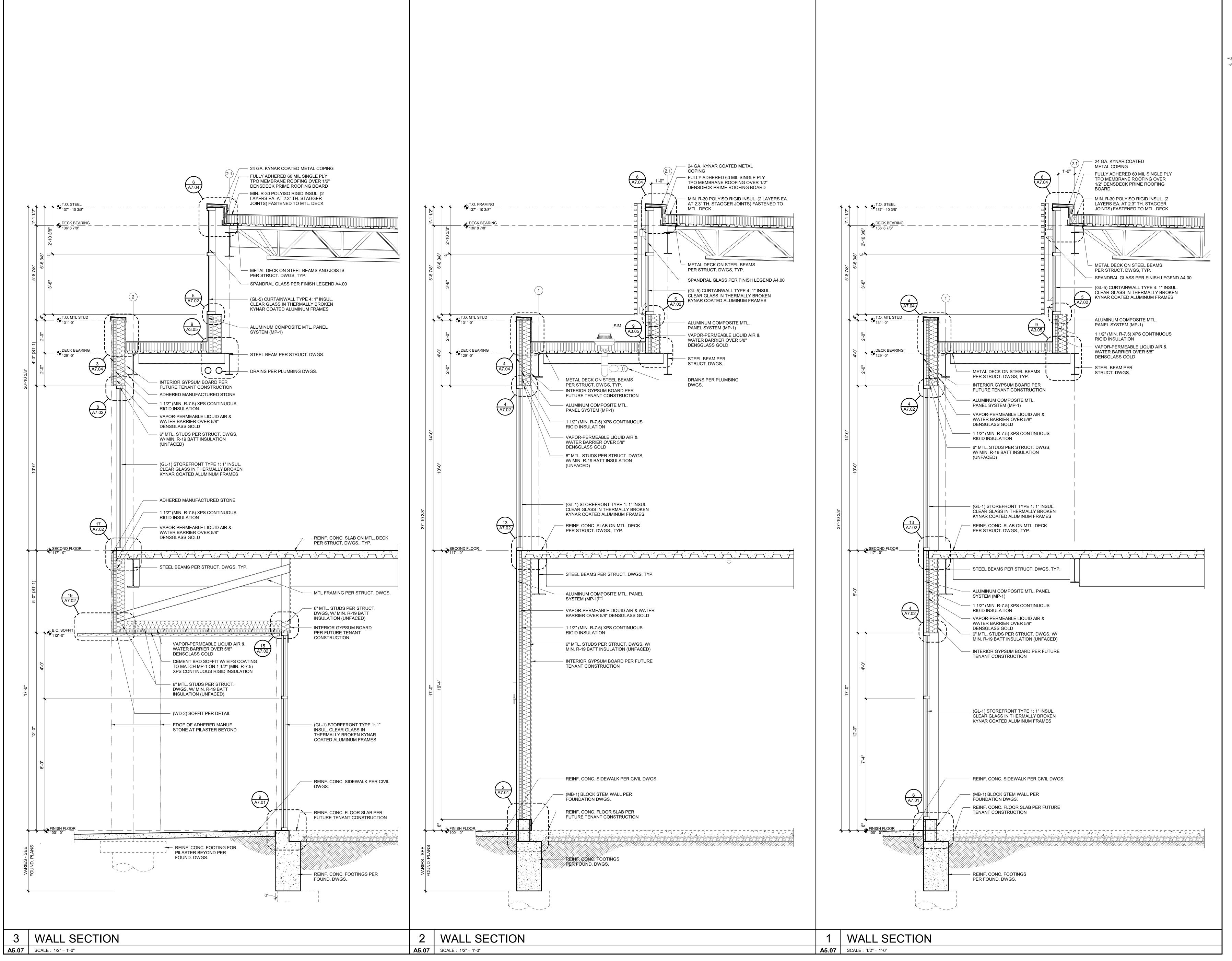
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SHEET TITLE

WALL SECTIONS

A5.06





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

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PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL GBA LANDSCAPE HOERR SCHAUDT / **BSE STRUCTURAL** FOUNDATIONS **ENGINEERS** STRUCTURAL BSE STRUCTURAL ENGINEERS PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON **ENGINEERS** CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS ARCHITECTURE

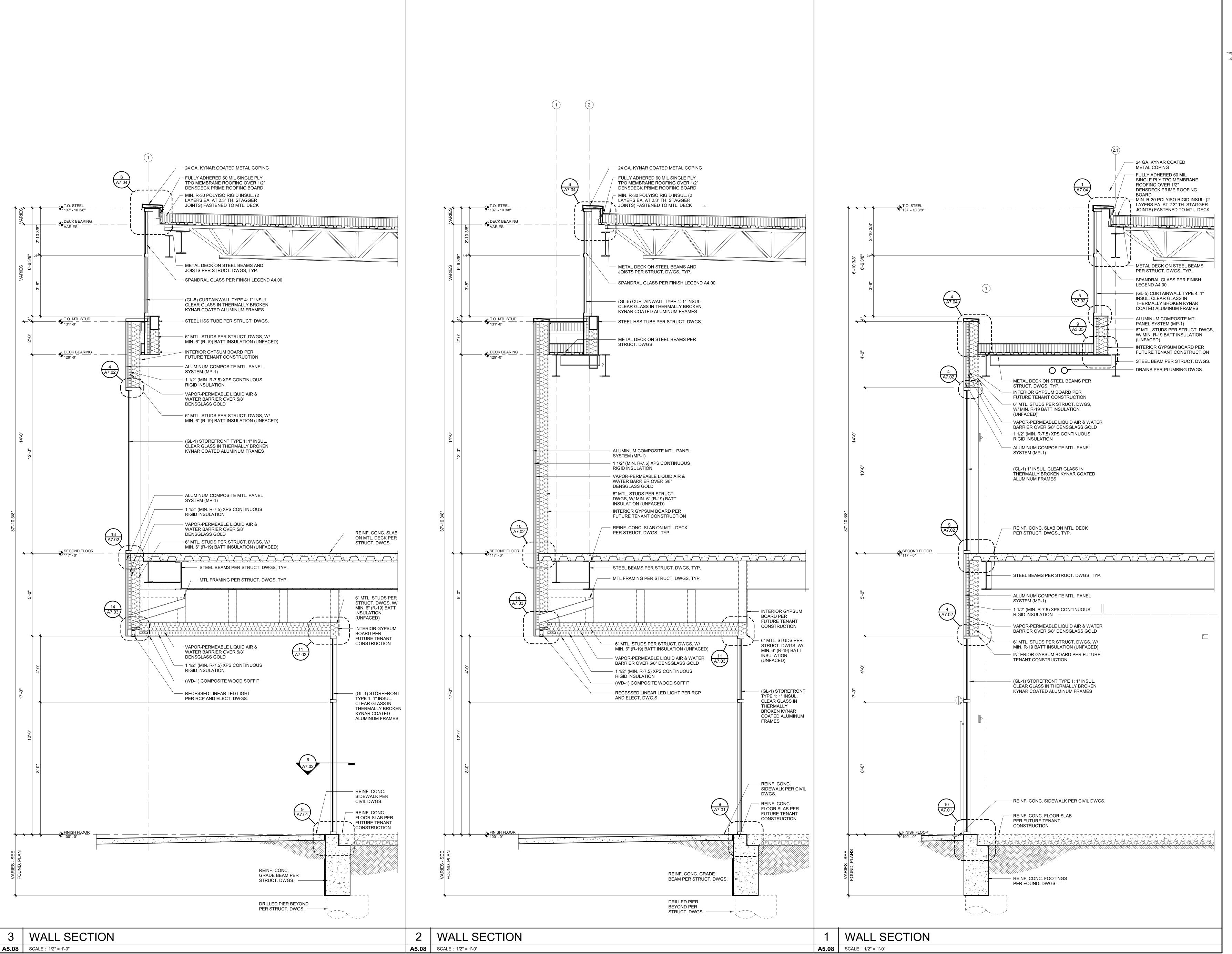
7007 College Blvd, Suite 415 Overland Park, Kansas 66211

SHEET TITLE

913+498-1550

WALL SECTIONS

SHEET NUMBER





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

Project No.: 19050.01

Date: 10.25.19

Issued For: SHELL - CD SET

REVISIONS

No. Date Description

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL ENGINEERS PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION HENDERSON **ENGINEERS** CONTRACTOR FOGEL ANDERSON

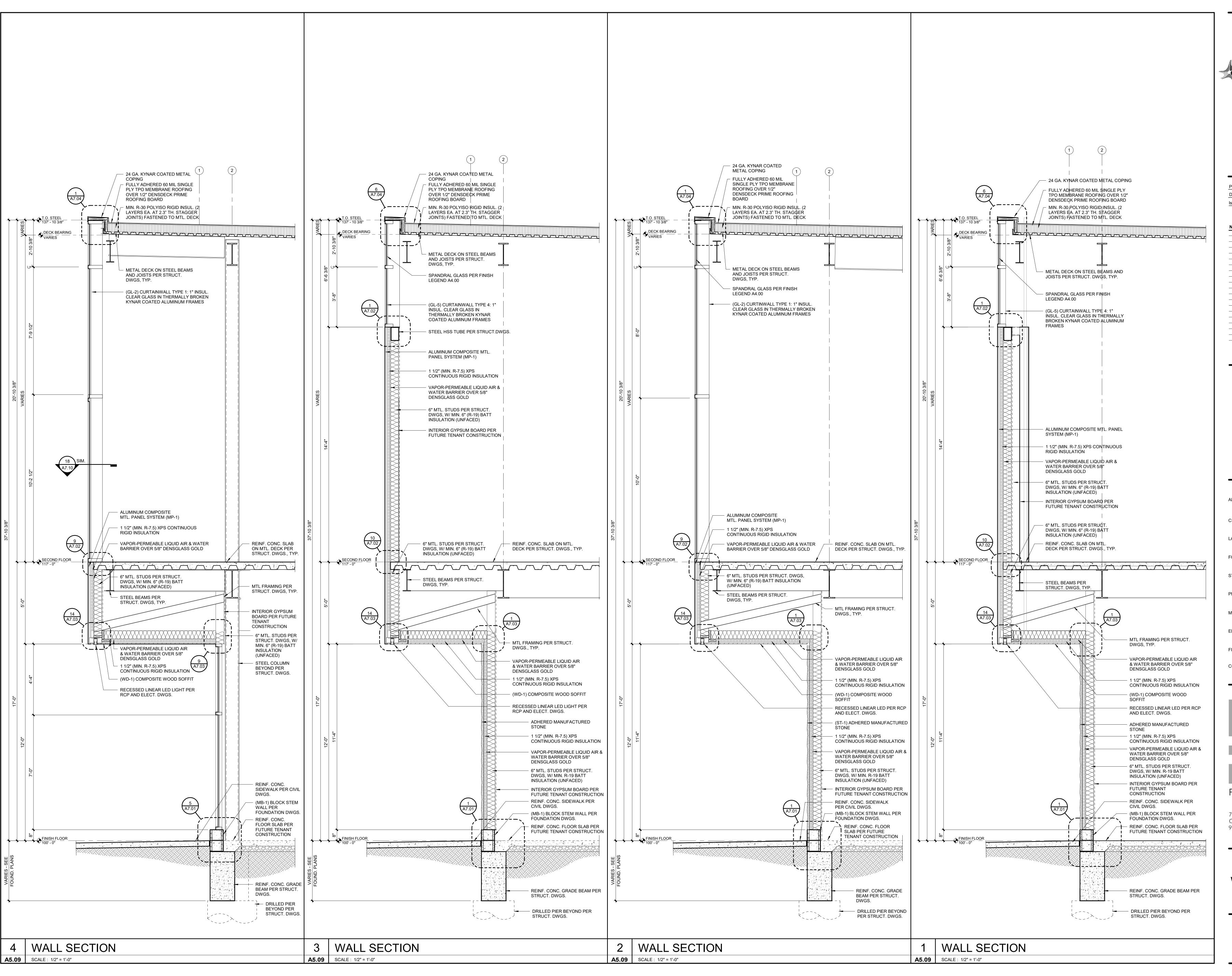
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SHEET TITLE

WALL SECTIONS





PARAGON STAR - LOT 9 -

BUILDING 2
PARAGON STAR

FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

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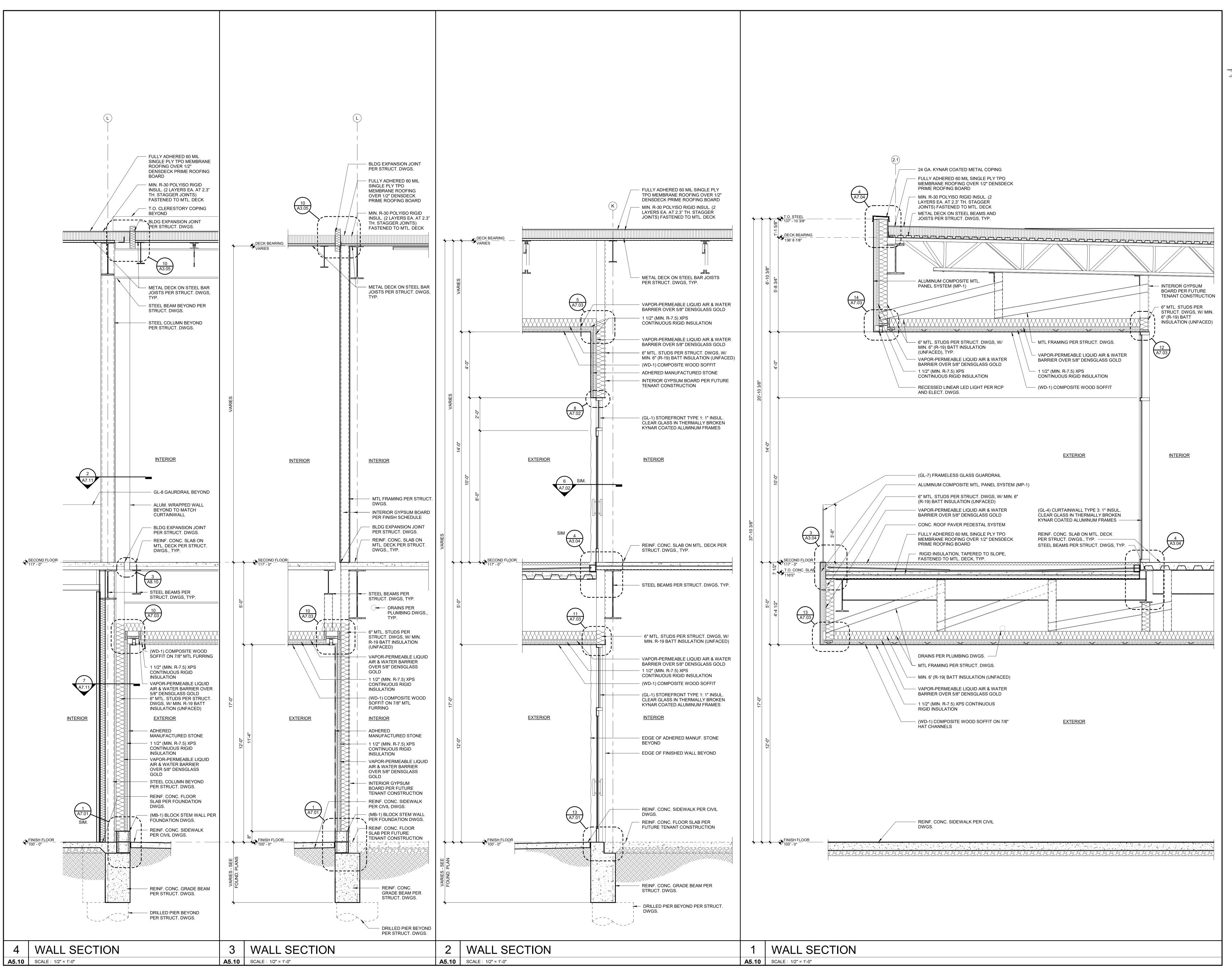
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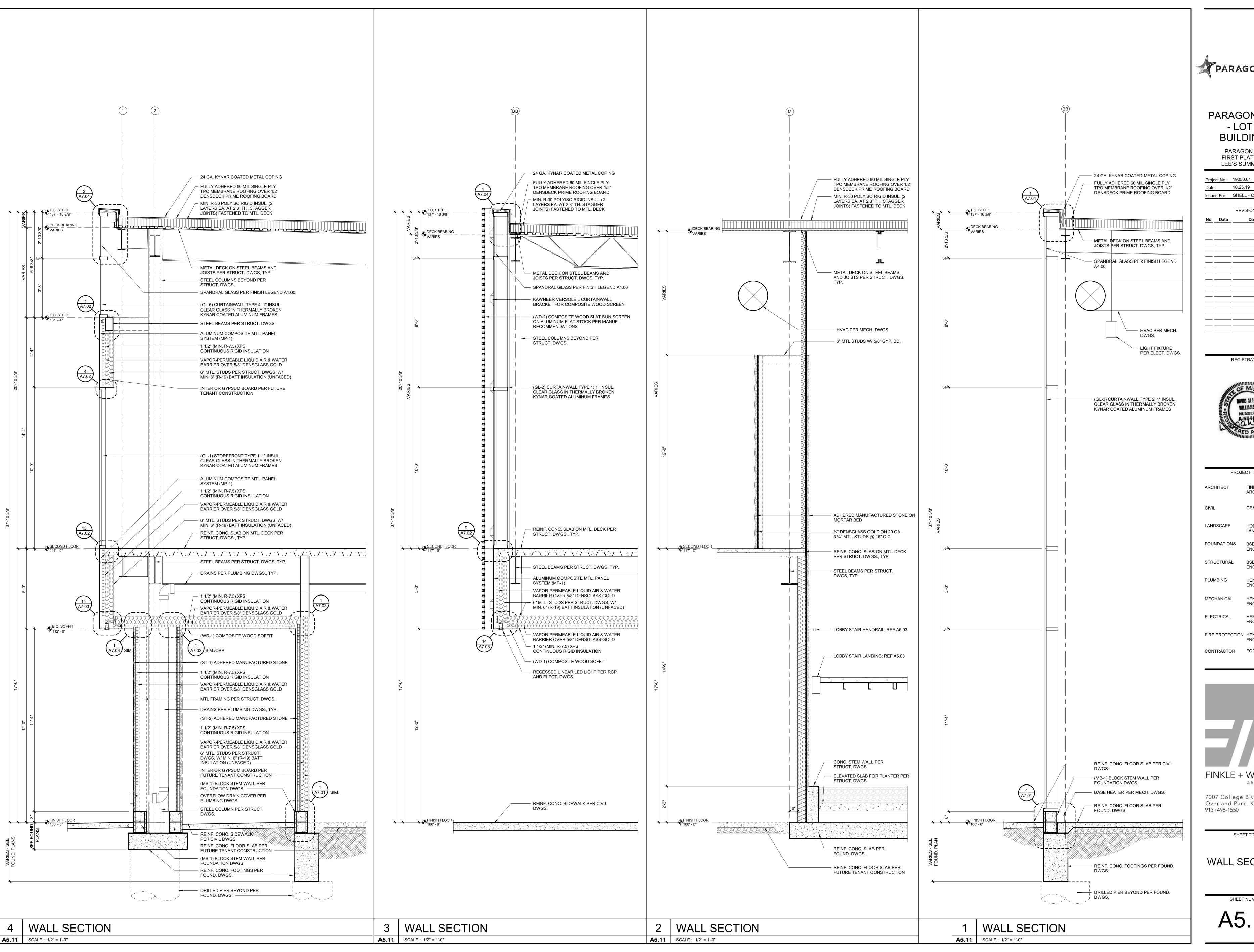
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WALL SECTIONS





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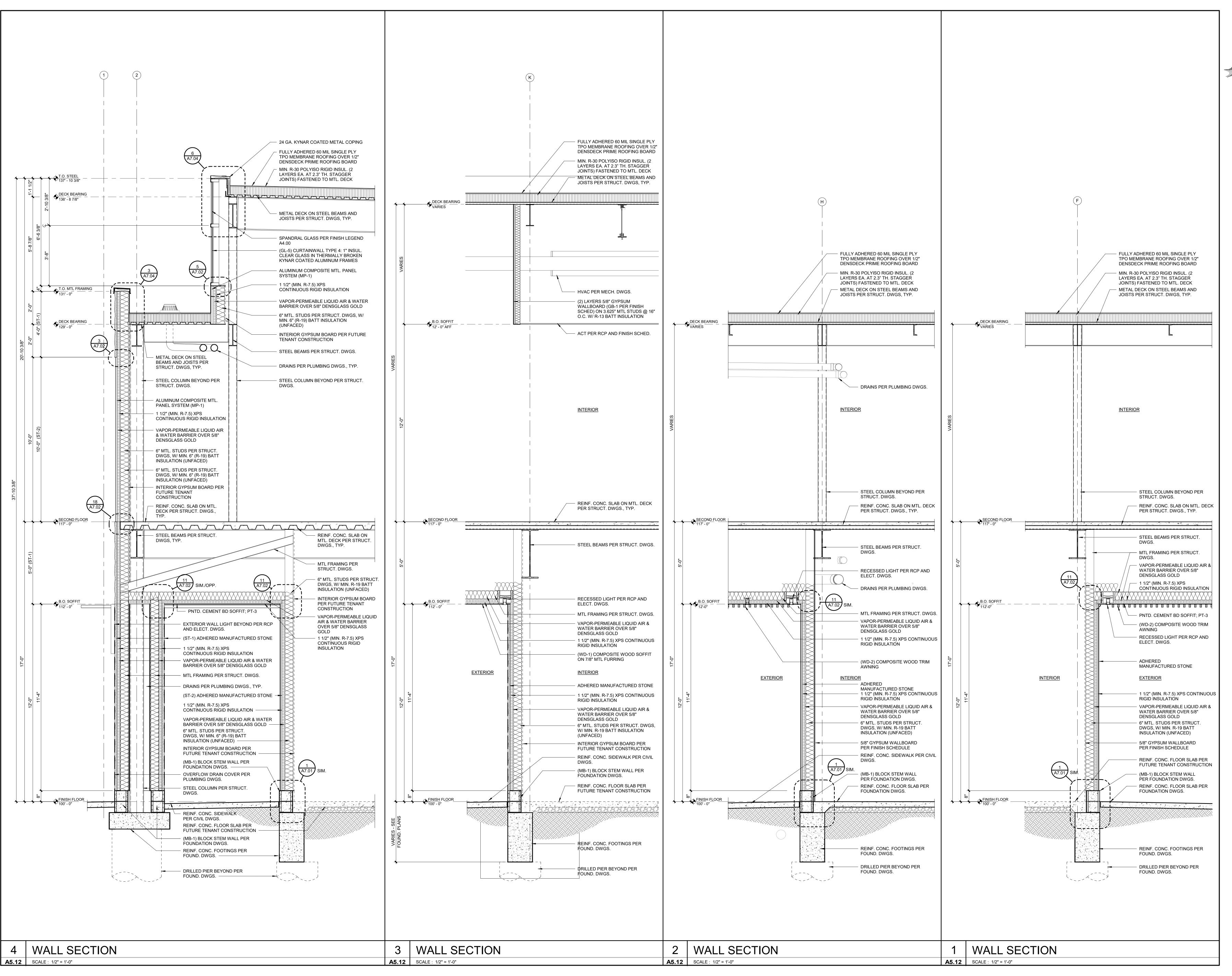
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SHEET TITLE

WALL SECTIONS

SHEET NUMBER A5.11





PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

REGISTRATION



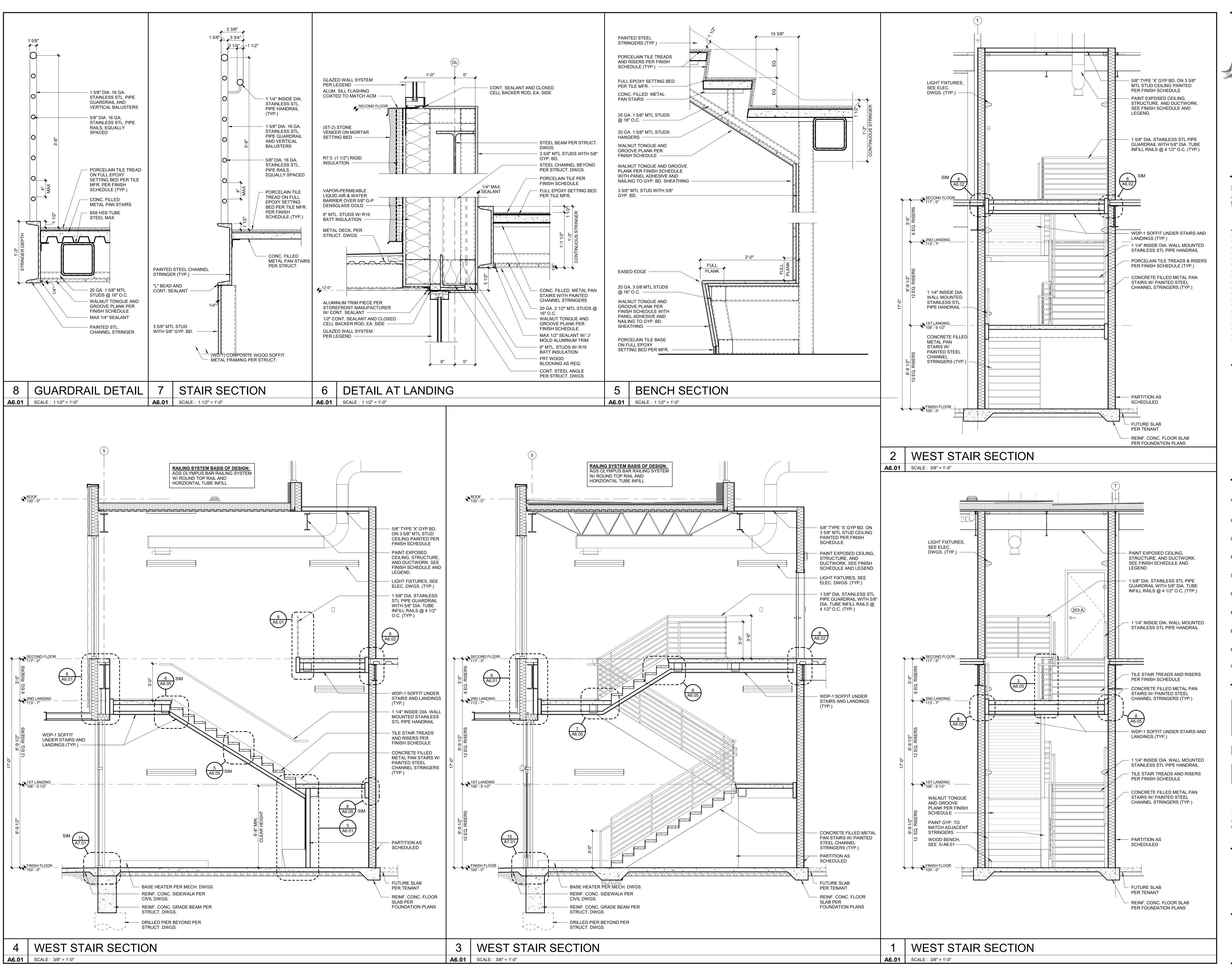
PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** HENDERSON MECHANICAL ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON **ENGINEERS** CONTRACTOR FOGEL ANDERSON

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SHEET TITLE

WALL SECTIONS





PARAGON STAR

FIRST PLAT, LOT 9

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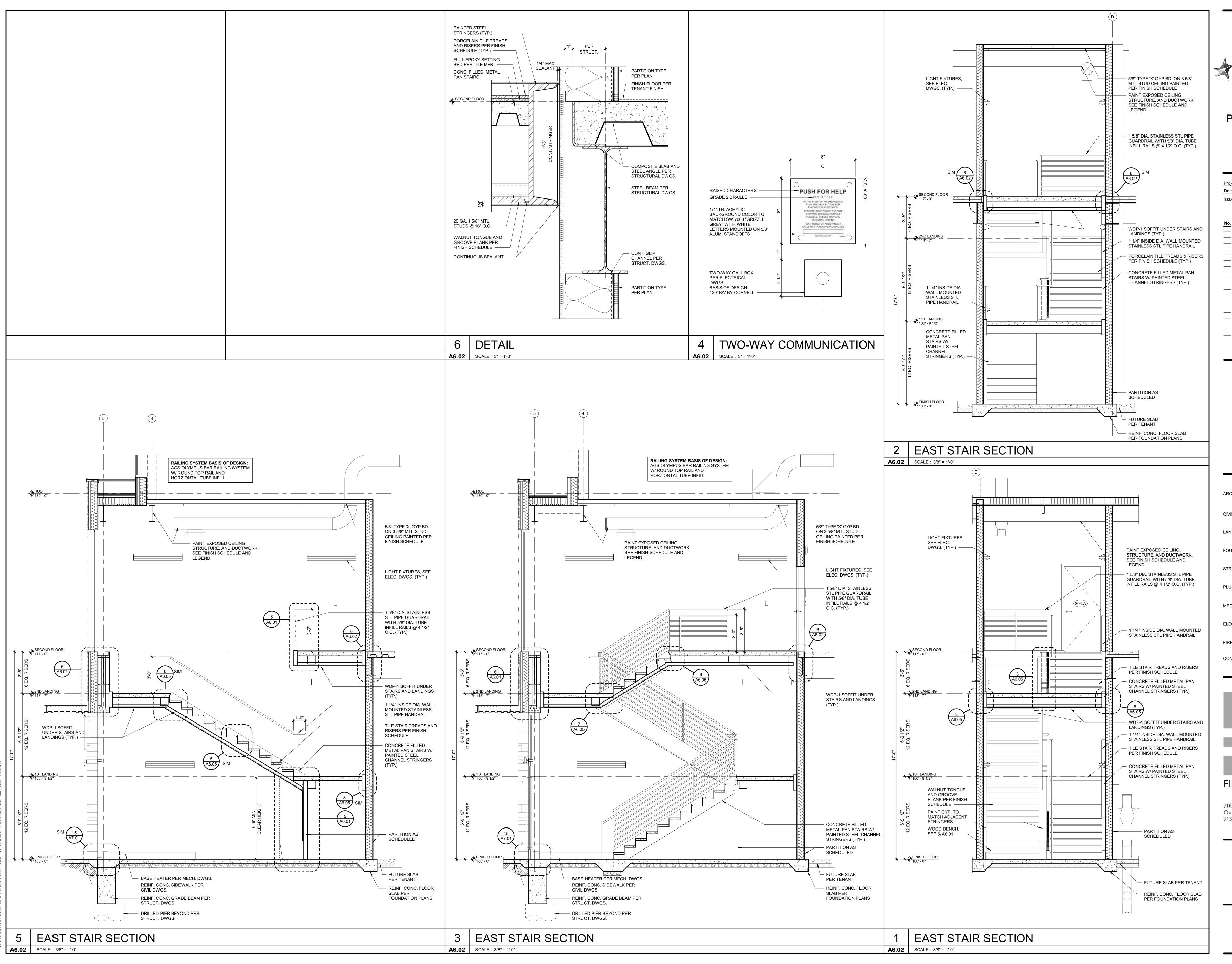
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ARCHITECTURE

SHEET TITLE

VERTICAL CIRCULATION

A6.01





PARAGON STAR - LOT 9 -

BUILDING 2
PARAGON STAR

Project No.: 19050.01

Date: 10.25.19

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FIRST PLAT, LOT 9

No. Date Descript

REGISTRATION



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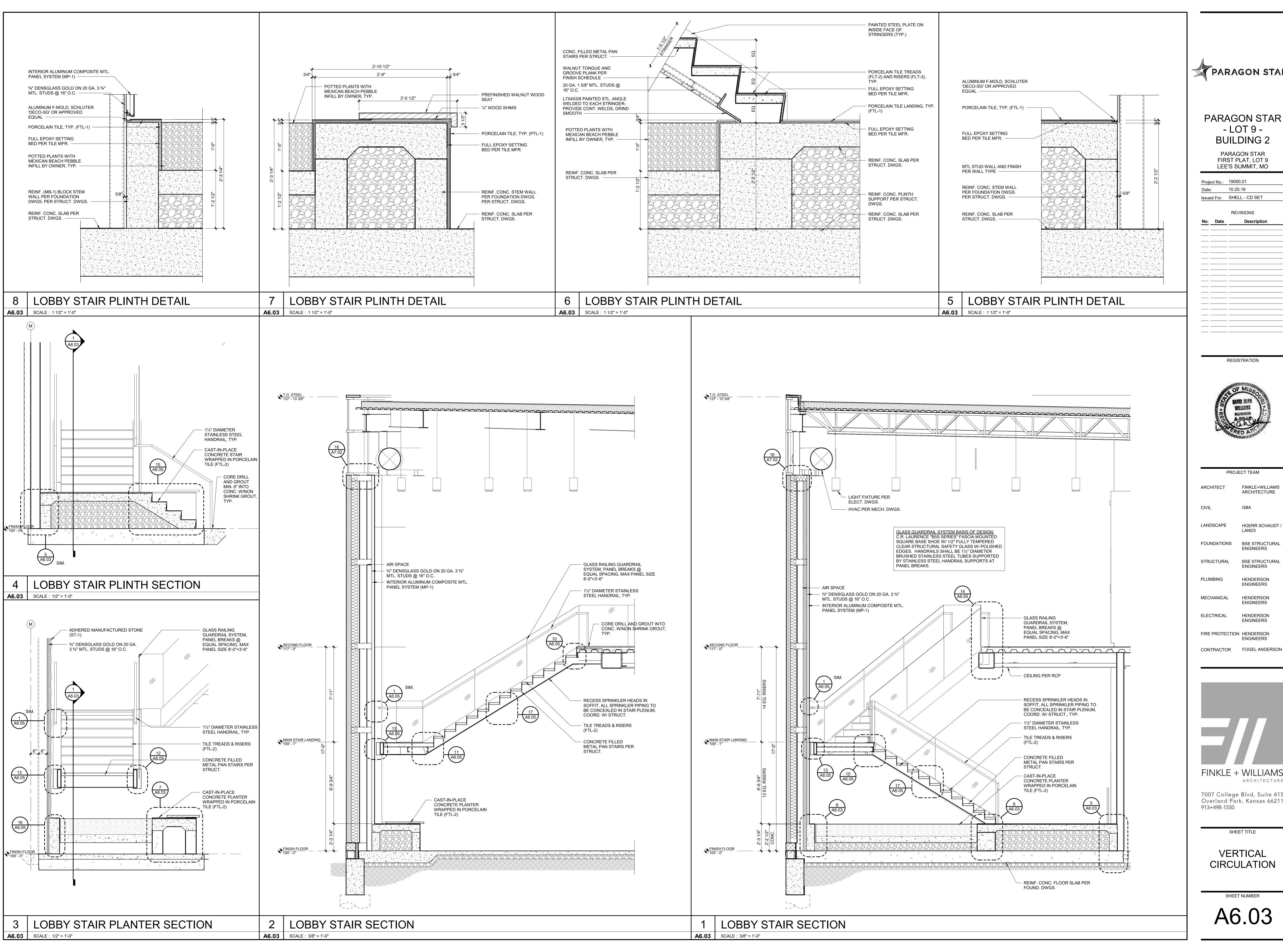
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VERTICAL CIRCULATION

SHEET TITLE

SHEET NUMBER

A6.02



PARAGON STAR

- LOT 9 -**BUILDING 2** 

PARAGON STAR

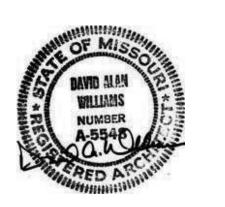
FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET

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REGISTRATION



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HENDERSON

HENDERSON

**ENGINEERS** 

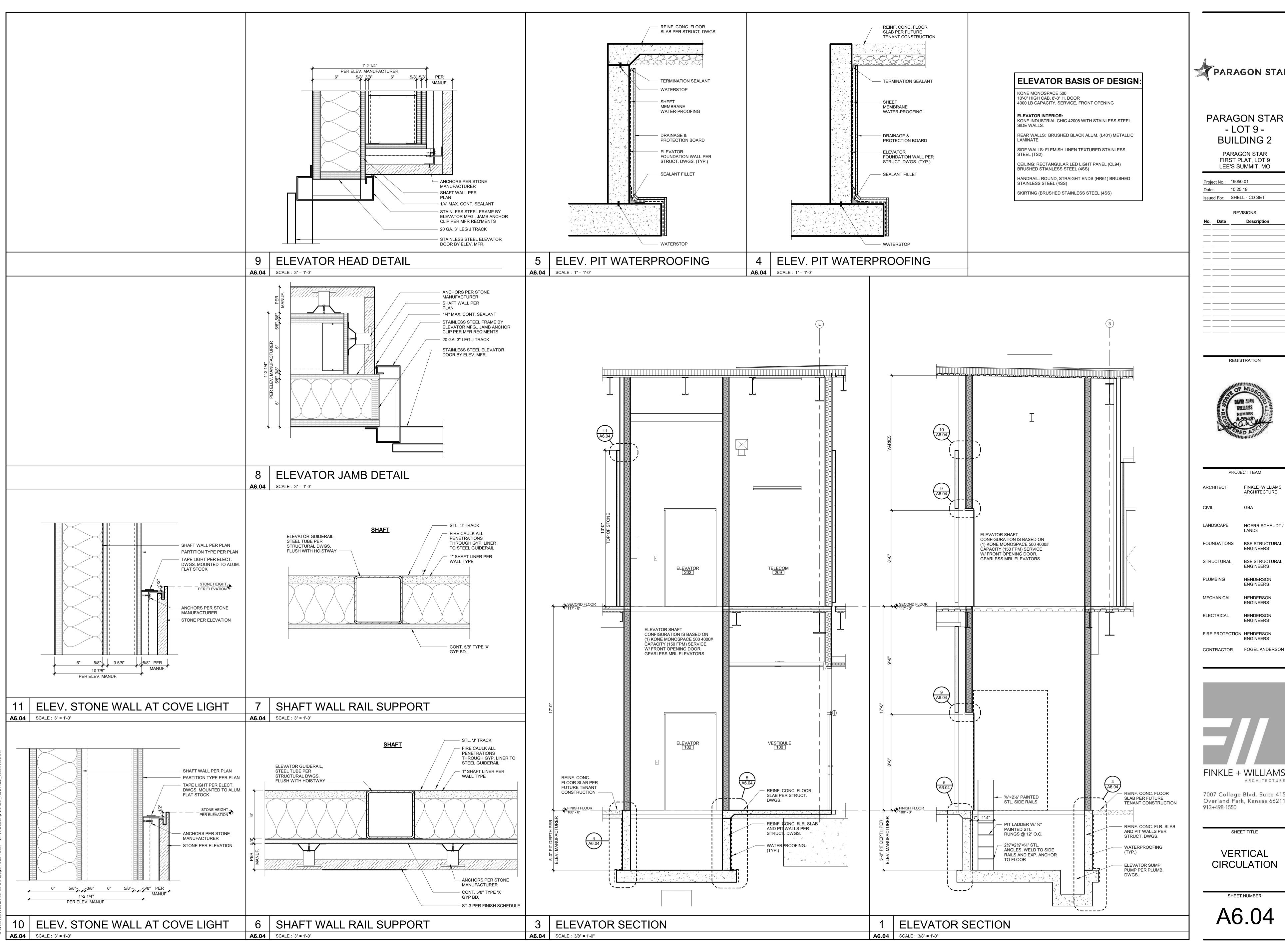
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SHEET TITLE

**VERTICAL CIRCULATION** 

SHEET NUMBER A6.03





> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET

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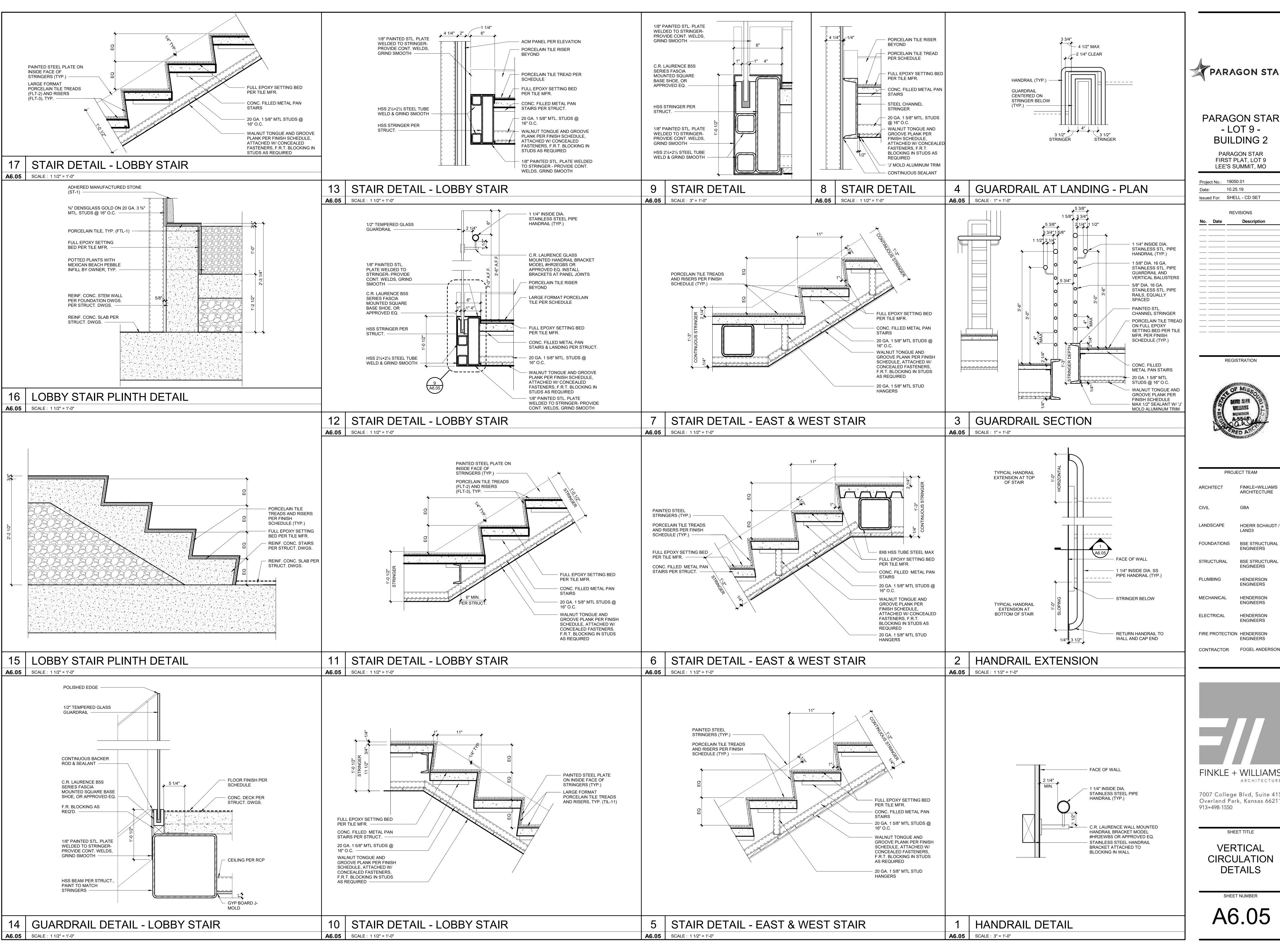
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SHEET TITLE

VERTICAL CIRCULATION

A6.04



PARAGON STAR - LOT 9 -**BUILDING 2** 

> PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE CIVIL HOERR SCHAUDT / BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS MECHANICAL** HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON

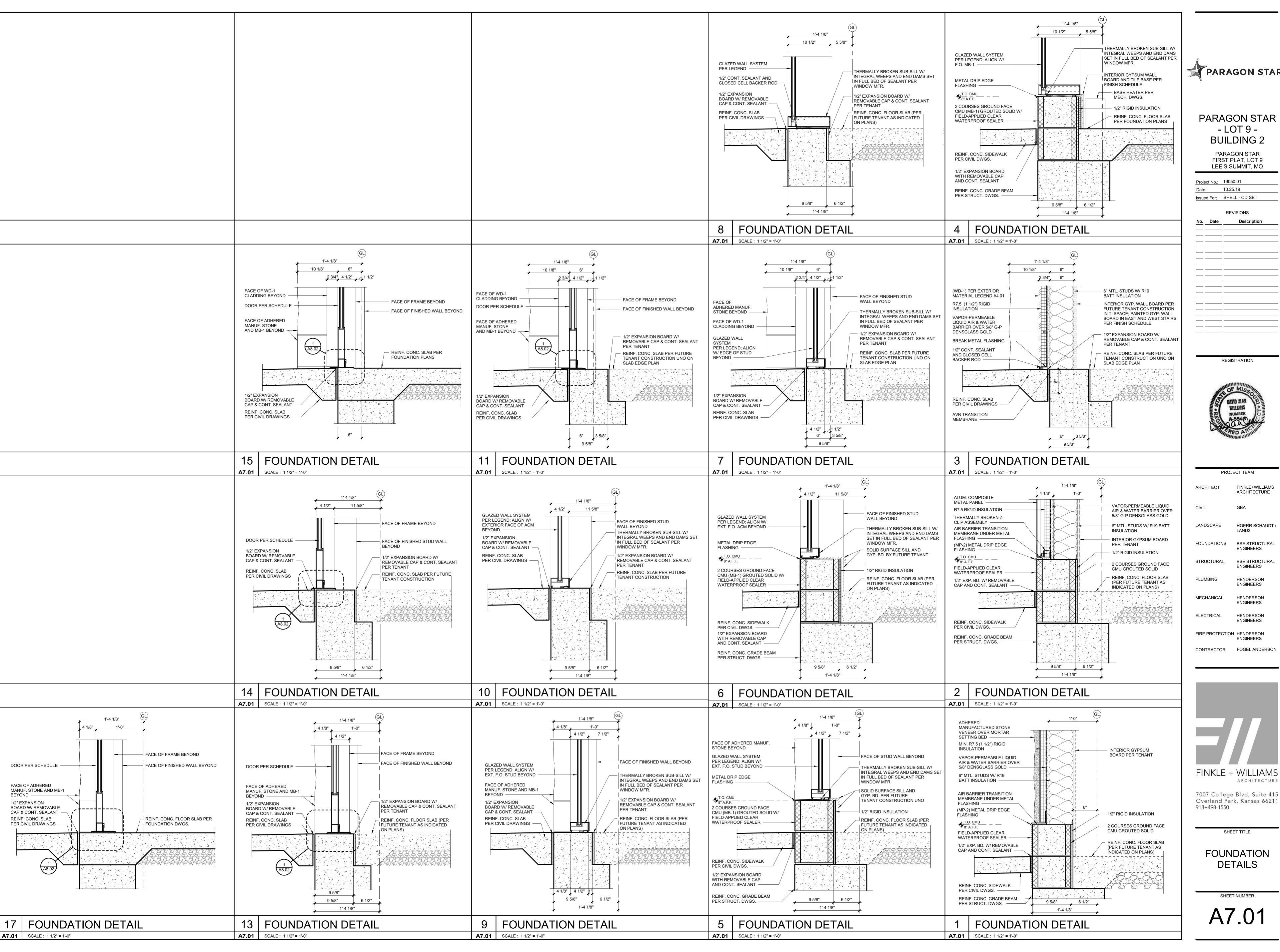
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SHEET TITLE VERTICAL CIRCULATION

**DETAILS** 

A6.05





- LOT 9 -**BUILDING 2** 

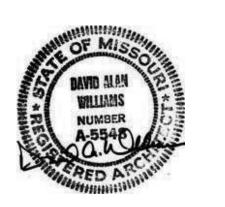
PARAGON STAR

FIRST PLAT, LOT 9

LEE'S SUMMIT, MO Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET

REVISIONS

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL GBA LANDSCAPE HOERR SCHAUDT / BSE STRUCTURAL FOUNDATIONS **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS MECHANICAL** HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** 

**ENGINEERS** 

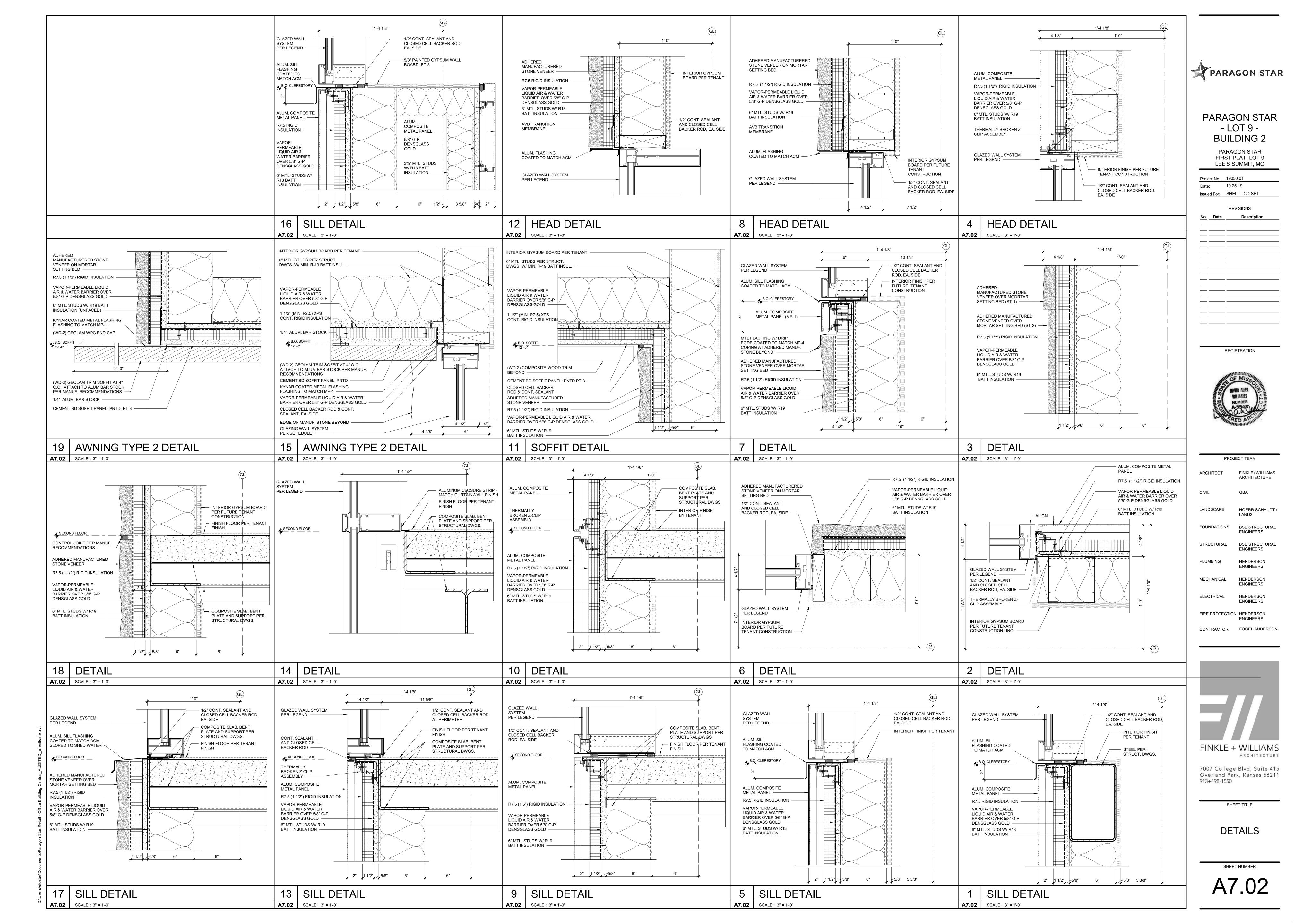
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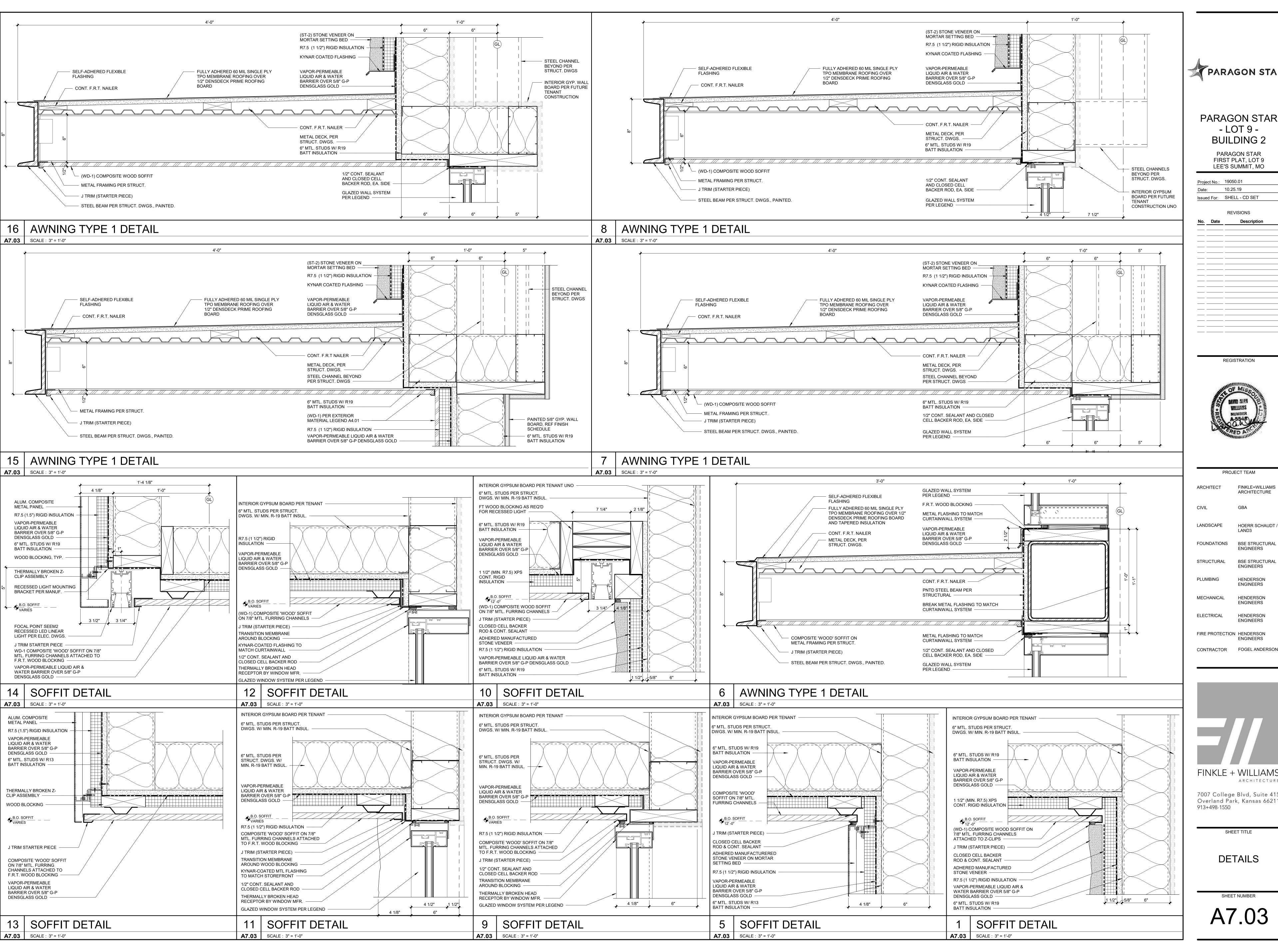
913+498-1550

SHEET TITLE

**FOUNDATION DETAILS** 

SHEET NUMBER A7.01





PARAGON STAR - LOT 9 -**BUILDING 2** 

PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL LANDSCAPE HOERR SCHAUDT FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS MECHANICAL** HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON **ENGINEERS** 

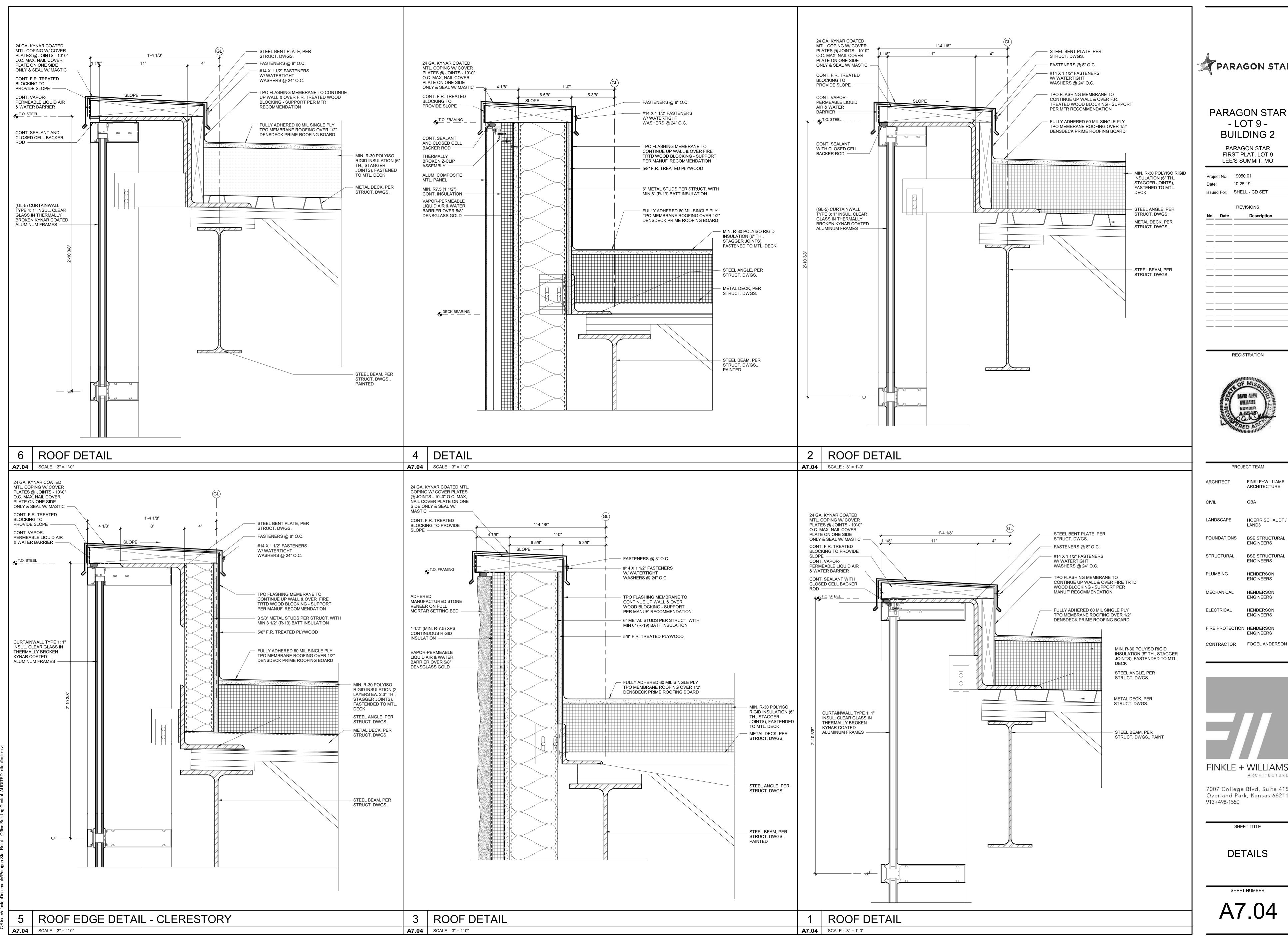


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SHEET TITLE

**DETAILS** 

SHEET NUMBER A7.03



PARAGON STAR - LOT 9 -**BUILDING 2** 

PARAGON STAR FIRST PLAT, LOT 9

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS

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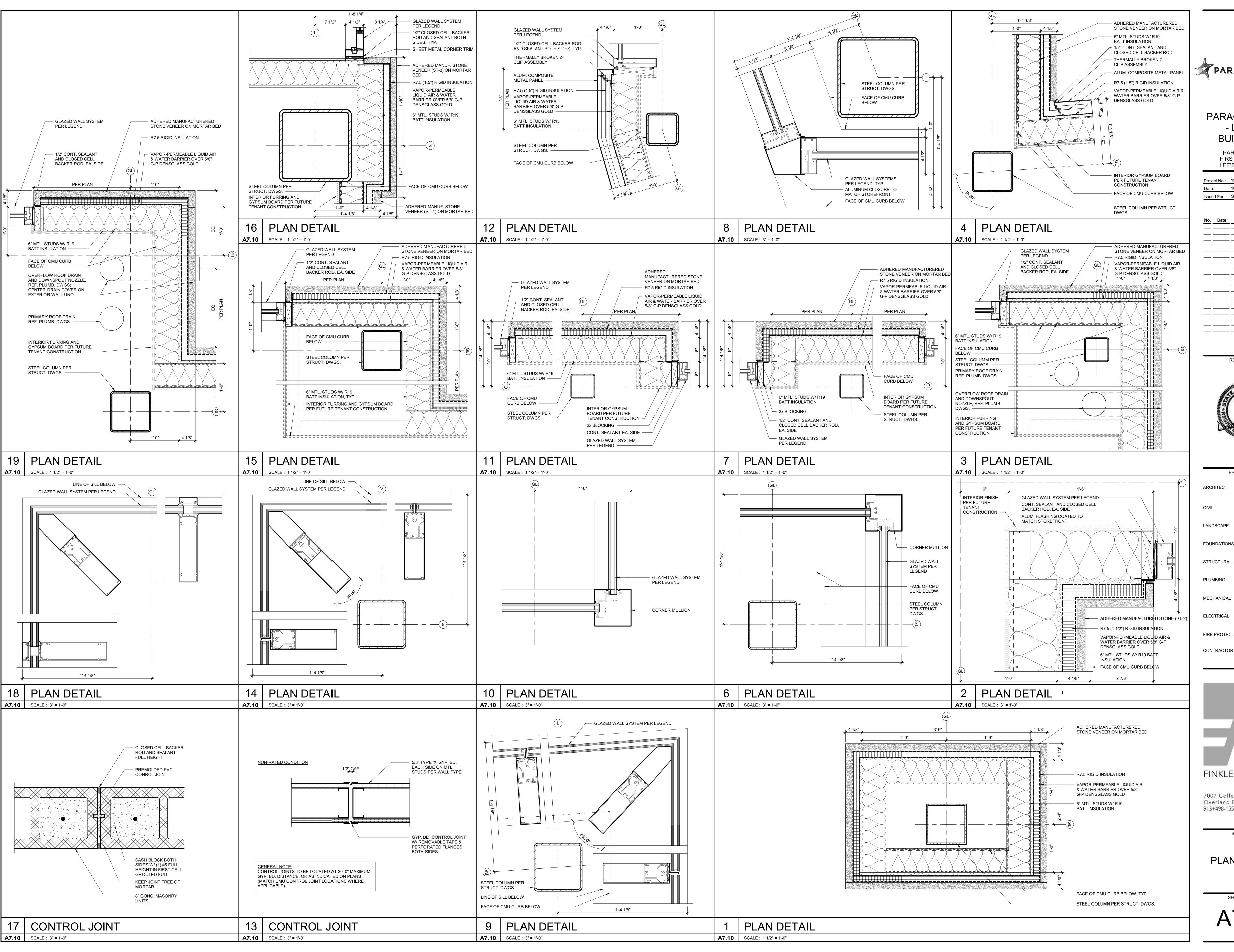
ARCHITECTURE

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SHEET TITLE

**DETAILS** 

A7.04





PARAGON STAR - LOT 9 -

**BUILDING 2** PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS

REGISTRATION

PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE

HOERR SCHAUDT / **FOUNDATIONS** BSE STRUCTURAL **ENGINEERS** 

BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** 

**MECHANICAL** HENDERSON ELECTRICAL HENDERSON

FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

**ENGINEERS** 

FINKLE + WILLIAMS

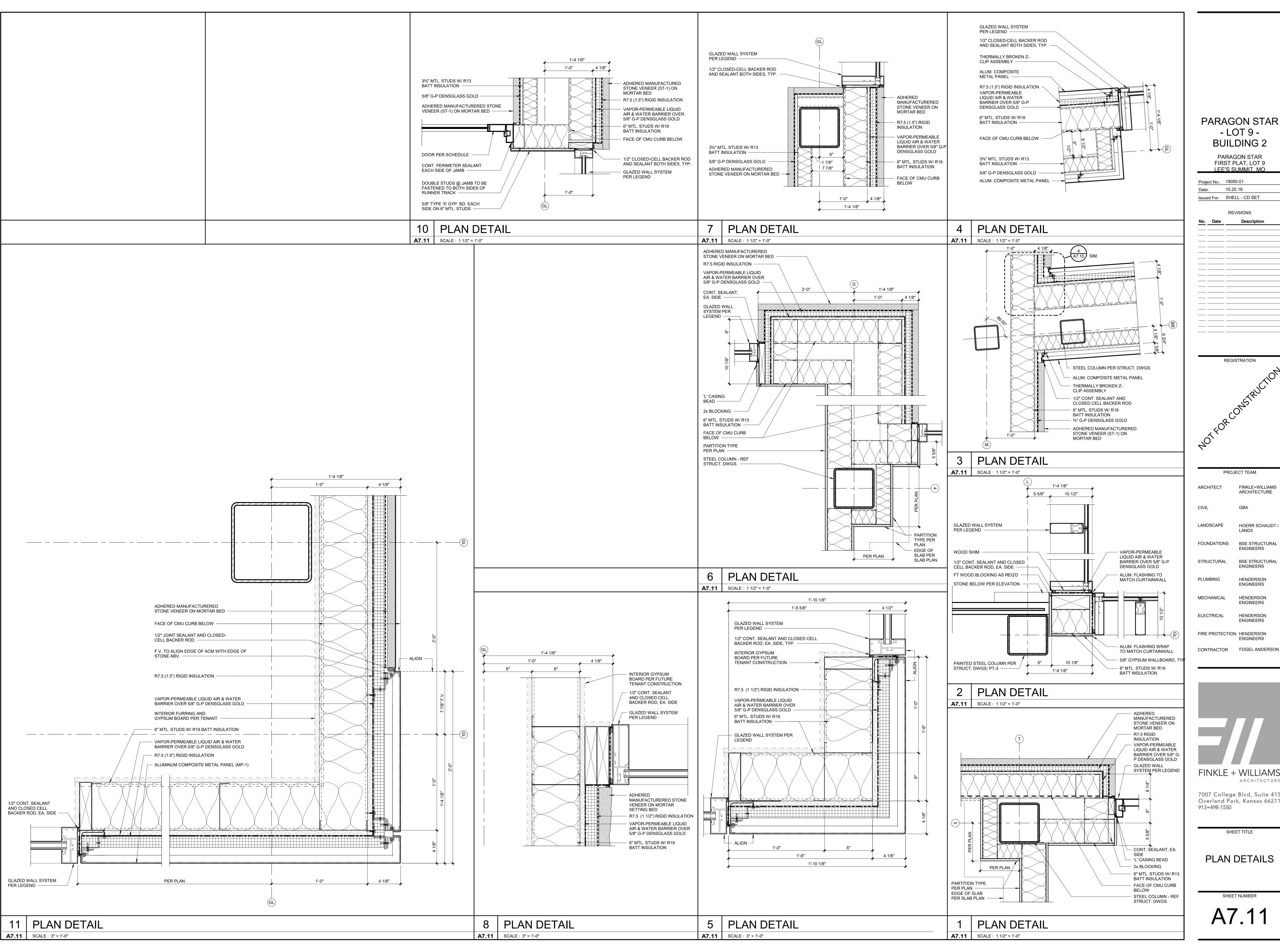
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SHEET TITLE

PLAN DETAILS

SHEET NUMBER A7.10



> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT. MO

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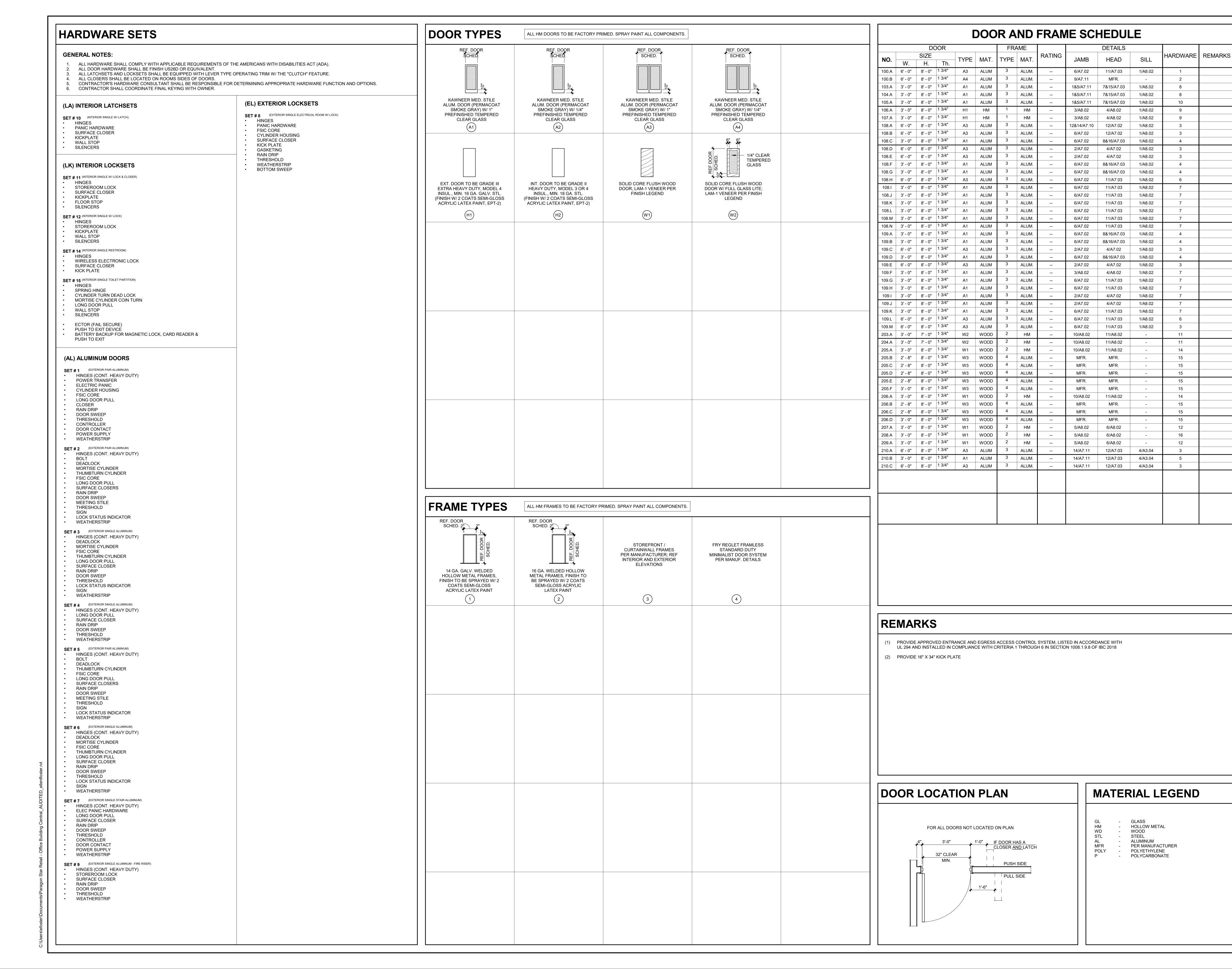
FINKLE + WILLIAMS

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SHEET TITLE

PLAN DETAILS





PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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 Date
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ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL

ELECTRICAL

HENDERSON

HENDERSON

**ENGINEERS** 

FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

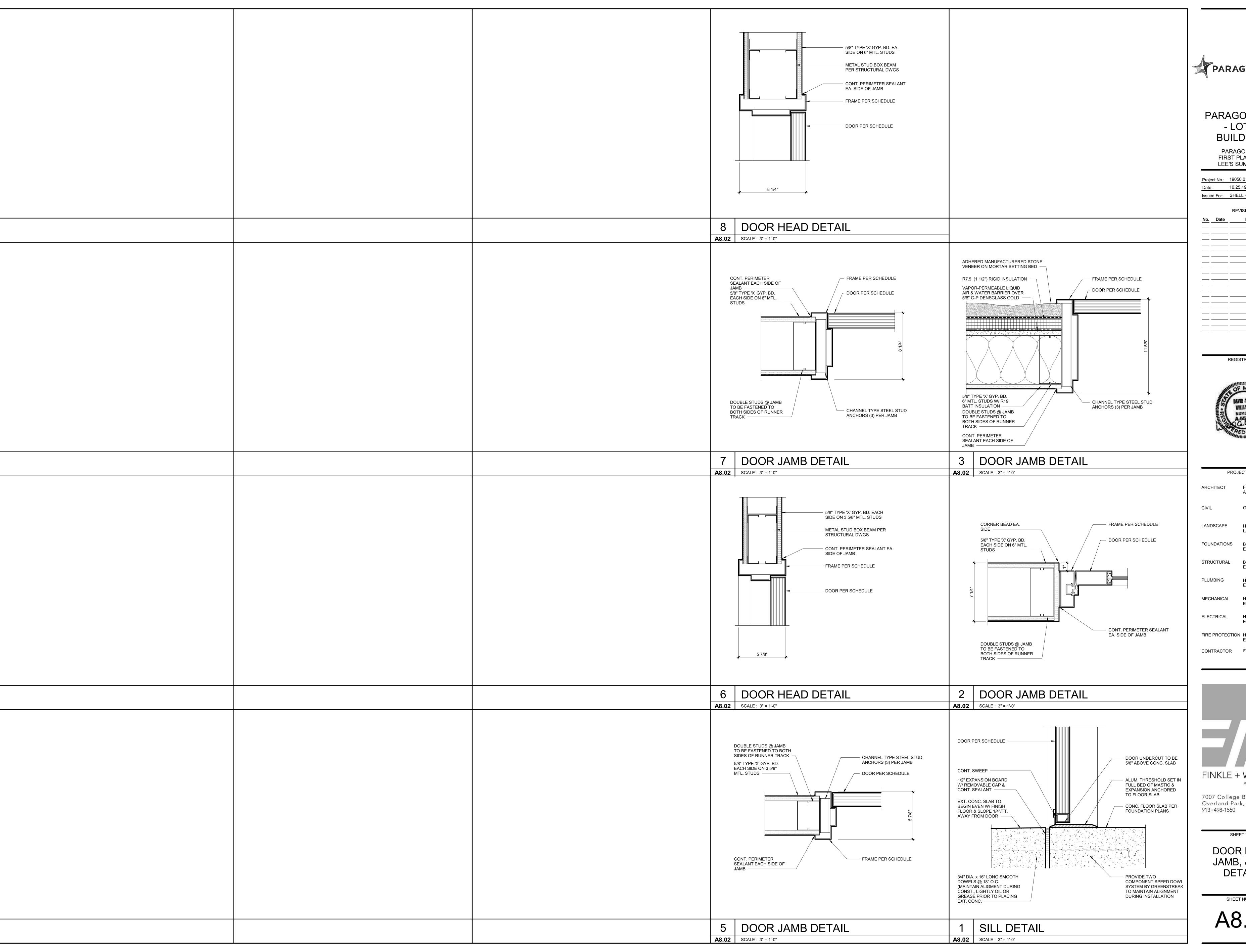
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SHEET TITLE

DOOR SCHEDULE AND DETAILS

A8.01





PARAGON STAR - LOT 9 -

**BUILDING 2** PARAGON STAR

FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

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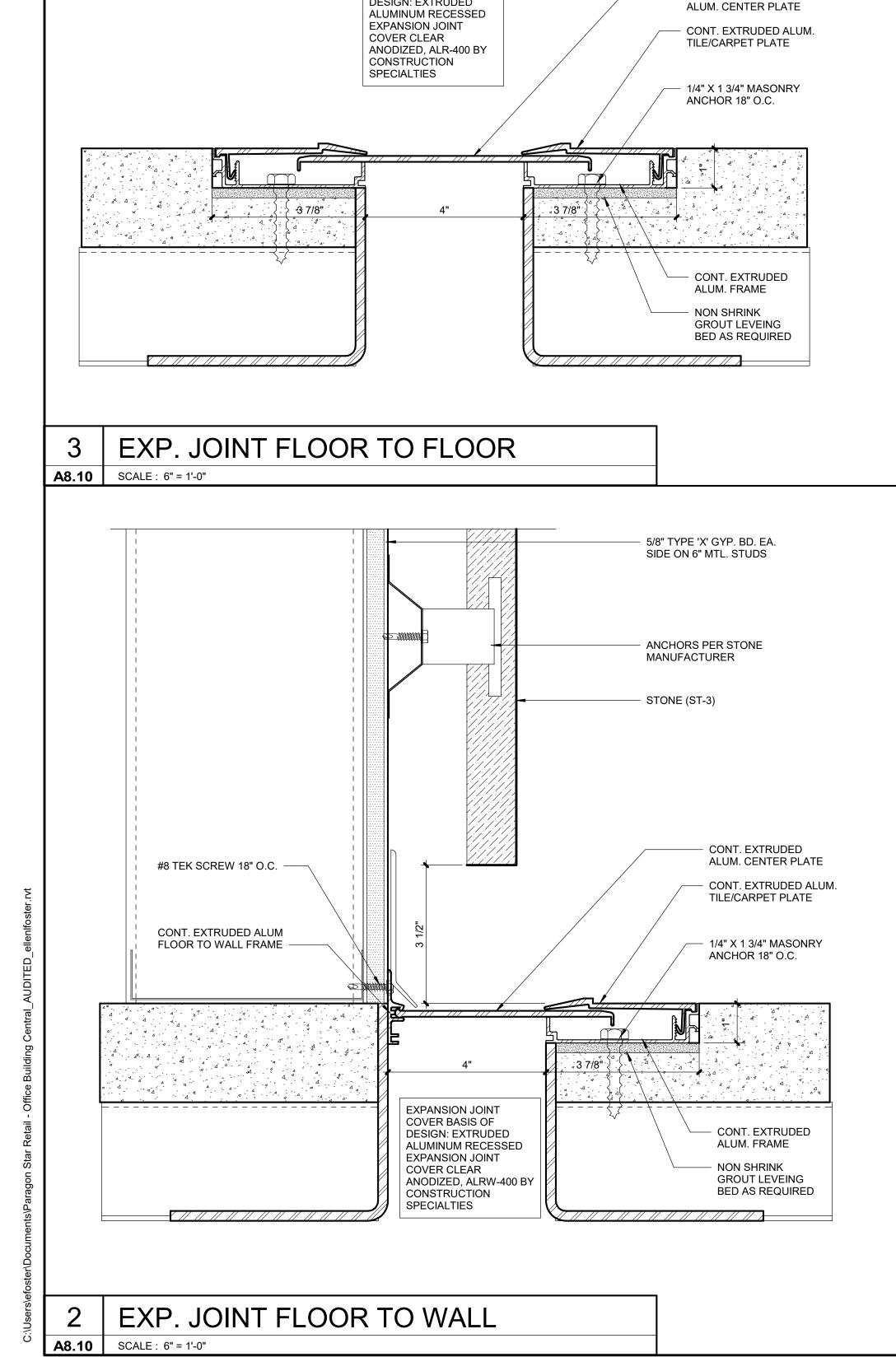
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SHEET TITLE

DOOR HEAD, JAMB, & SILL DETAILS

SHEET NUMBER A8.02



**EXPANSION JOINT** 

DESIGN: EXTRUDED

COVER BASIS OF

# **ROOM FINISH LEGEND**

# FLOOR FINISHES REFERENCE FLOOR PLAN FOR LOCATION OF FLOOR FINISH TRANSITIONS & PATTERN.

FTL: PORCELAIN / CERAMIC TILE W/ 1/8" MAX. GROUT JOINTS W/ SILICONE SEALER. PROVIDE CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS & COLD JOINTS IN SLAB

- FTL-1: MFR: ERGON ENGINEERED STONE, COLLECTION: STONE PROJECT, COLOR: BLACK CONTROFALDA NATURAL, SIZE: 24"x48" 92669R, STRAIGHT LAY PATTERN, INSTALL PER TCNA AND MANUFACTURER'S GUIDELINES
- FTL-2: MFR: ERGON ENGINEERED STONE, COLLECTION: STONE PROJECT, COLOR: BLACK CONTROFALDA NATURAL. SIZE: 12"x24" BULLNOSE GRADINO STAIR TREAD 70669R
- FTL-3: MFR: ERGON ENGINEERED STONE, COLLECTION: STONE PROJECT, COLOR: BLACK CONTROFALDA NATURAL, SIZE: 8"x47" STAIR RISER 82669R
- FTL-4: MFR: ERGON ENGINEERED STONE, COLLECTION: STONE PROJECT, COLOR: BLACK CONTROFALDA NATRUAL, SIZE: 12"x24" 82669R **CON:** CONCRETE
- CON-1: EXPOSED CONCRETE STEM WALL SEALED W/ ASHFORD FORMULA SEALER WITH METZGER/MCGUIRE RE 88 SEMI-RIGID POLYUREA OR EQUAL FLOOR JOINT FILLER.
- CON-2: CONCRETE FLOOR W/ ASHFORD FORMULA SEALER WITH METZGER/MCGUIRE RE 88 SEMI-RIGID POLYUREA OR EQUAL FLOOR JOINT FILLER.
- **CP**: CONCRETE ROOF PAVER SYSTEM
- CP-1: 24"x24"x2" THICK CONCRETE ROOF PAVER; MANUFACTURER: TBD
- **WOOD:** TONGUE AND GROOVE PLANK

WDP-1: 1X6 CLASS A FINISH WALNUT (FLAT CUT) TONGUE AND GROOVE PLANK WITH CLEAR TOP COAT

**BASE FINISHES** REFERENCE ROOM FINISH DESIGNATIONS ON FLOOR PLAN & INTERIOR ELEVATIONS FOR BASE FINISH LOCATIONS & TRANSITIONS.

- RB: .125" THERMOPLASTIC RUBBER RESILIENT WALL BASE
- RB-1: MFR: ROPPE, SIZE: 4", COLOR: 123 CHARCOAL
- TB: 4" TILE BASE TO COORD. WITH FLOOR TILE
- TB-1: MFR: ERGON ENGINEERED STONE, COLLECTION: STONE PROJECT, COLOR: BLACK CONTROFALDA NAT. RETT., SIZE: 4"x24"

**WALL FINISHES** ALL GYPSUM BOARD WALLS PERPENDICULAR TO EXTERIOR WALL WITH WINDOWS TO RECEIVE PAINT ARE TO HAVE A LEVEL 5 DRYWALL FINISH.

- PT: ACRYLIC LATEX COATING 2 FINISH COATS OVER PRIMER
- PT-1: SHERWIN WILLIAMS, ORIGAMI WHITE, SW7636, EGGSHELL LATEX COATING PT-2: SHERWIN WILLIAMS, MODERN GRAY, SW7632, EGGSHELL LATEX COATING
- PT-3: SHERWIN WILLIAMS, IRON ORE, SW7069, EGGSHELL LATEX COATING
- **EPT:** POLYAMIDE EPOXY COATING 2 FINISH COATS OVER PRIMER
- EPT-1: SHERWIN WILLIAMS, ORIGAMI WHITE, SW7636, SEMI-GLOSS EPOXY COATING EPT-2: SHERWIN WILLIAMS, MODERN GRAY, SW7632, SEMI-GLOSS EPOXY COATING

WTL: PORCELAIN/CERAMIC TILE W 1/8" MAX GROUT JOINTS

WTL-1: MFR: STONE PEAK, COLOR: WHITE PLANE HONED USH3030087, SIZE: 30"x30", STRAIGHT STACK PATTERN, INSTALL PER TCNA AND MANUFACTURER'S GUIDELINES, GROUT: MATCH TILE

ST: NATURAL STONE. RE EXTERIOR FINISH LEGEND

**ST-1**: MATCH EXTERIOR ST-1 ST-2: MATCH EXTERIOR ST-2

- CONT. EXTRUDED

- **ST-3**: MATCH EXTERIOR ST-3
- **ST-6:** 2CM BLUE PEARL QUARTZ, SEAMS PER ELEVATIONS
- **MP:** METAL PANEL. RE EXTERIOR FINISH LEGEND
- **MP-1**: MATCH EXTERIOR MP-1
- **GL**: INTERIOR GLASS SYTEMS
- **GL-8:** CLEAR GLASS RAILING SYSTEM PER STAIR DETAILS

# **CASEWORK FINISHES**

**LAM:** PLASTIC LAMINATE

LAM-1: MFR: WILSONART, COLOR: WALNUT HEIGHTS 7965K-12 (SOFT GRAIN FINISH) 1/10" COMPACT LAMINATE LAM-3: MFR: WILSONART, COLOR: CRYSTAL D388-60 (MATTE FINISH)

CEILING FINISHES REFERENCE REFLECTED CEILING PLAN(S) FOR CEILING FINISH LOCATIONS & TRANSITIONS.

**SAT:** ACOUSTICAL CEILING TILE IN SUSPENDED GRID

- SAT-1: SIZE: 24" X 24", MFR: ARMSTRONG, STYLE: ULTIMA (WHITE) SQUARE TEGULAR, GRID: 9/16" SUPRAFINE XL WHITE.
- SAT-2: SIZE: 24" X 96", MFR: ARMSTRONG, STYLE: OPTIMA (WHITE) SQUARE TEGULAR, GRID: 9/16" SUPRAFINE XL WHITE.
- GB: GYPSUM WALLBOARD W/ FLAT FINISH ACRYLIC LATEX PAINT 2 FINISH COATS OVER PRIMER
- GB-1: SHERWIN WILLIAMS SW 7007 "CEILING BRIGHT WHITE" GB-2: SHERWIN WILLIAMS SW7632 "MODERN GRAY"
- **EXP**: EXPOSED CEILING WITH PAINTED DECK AND STRUCTURE TO MATCH GB-2 UNO
- **WOOD:** TONGUE AND GROOVE PLANK
- WD-4: 1X6 CLASS A FINISH WALNUT (FLAT CUT) TONGUE AND GROOVE PLANK WITH CLEAR TOP COAT

# **GENERAL FINISH NOTES**

- PAINT ALL HOLLOW METAL DOORS AND FRAMES W/ 2 COATS OF SEMI-GLASS, ACRYLIC LATEXT PAINT TO MATCH ADJACENT WALL,
- PROVIDE THE FOLLOWING TRANSISTION STRIPS AT LOCTIONS WHERE DISSIMLAR FLOOR MATERIALS MEET. ENSURE ALL TRANSITIONS ARE ADA COMPLIANT, 1/2" OR LESS CHANGE IN ELEVATION. CARPET TO PORCELAIN TILE: SCHLUTER-RENO-TK CLEAR ANODIZED ALUM CARPET TO FINISHED CONCRETE: SCHLUTER-RENO-U CLEAR ANODIZED ALUM
- ROOM FINISH SCHEDULE IS FOR GENERAL COORDINATION OF FINSHES. REFERENCE ROOM FINISH PLANS, INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR COODINTATION OF ALL FINAL FINISHES.

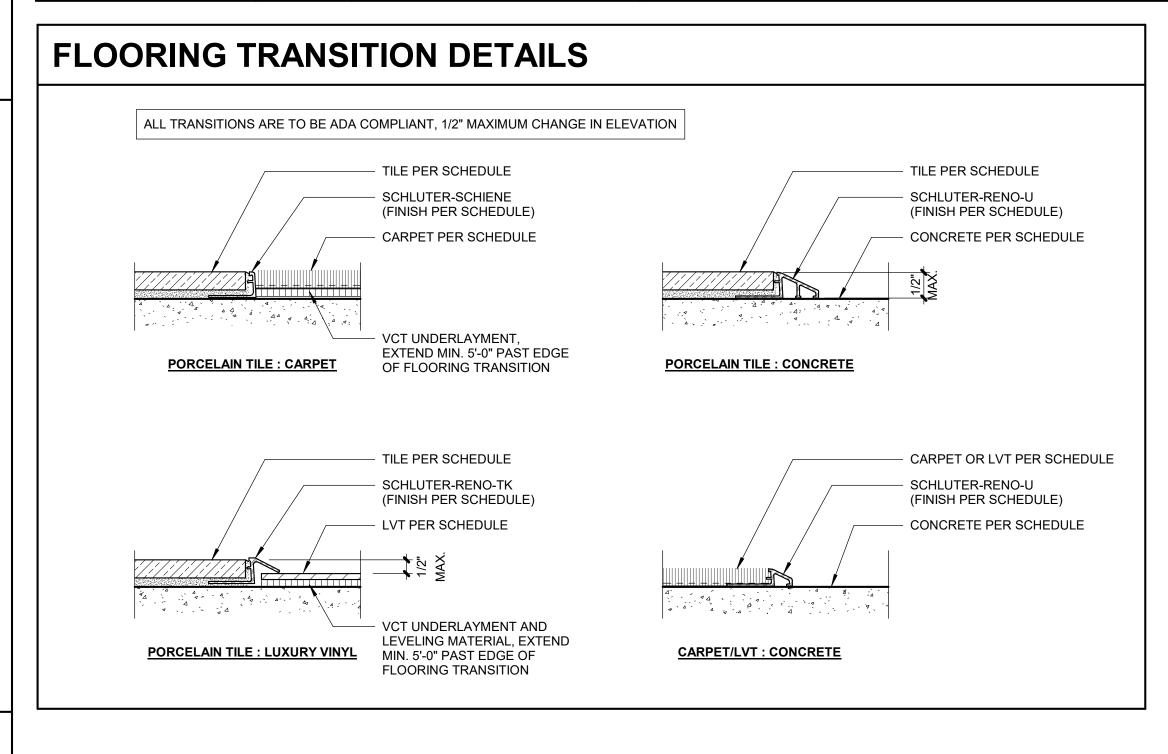
PORCELAIN TILE TO FINISHED CONCRETE: SCHLUTER-RENO-U CLEAR ANODIZED ALUM

ALL SOFFITS TO BE PAINTED TO MATCH PT-1 UNLESS NOTED OTHERWISE. PAINT METAL WALL-MOUNTED ACCESS DOORS, GRILLES AND UNFINISHED COVER PLATES TO MATCH ADJACENT WALL SURFACE. PAINT ALL EXPOSED DUCTS, PIPING, AND INTEIROR MECHANICAL EQUIPEMENT TO MATCH ADJACENT SURFACE.

# SCHEDULE REMARKS

- (1) REF. INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON FINISH LOCATIONS.
- (2) INTERIOR FINISHES BY FUTURE TENANT.
- (3) REF. ELEVATOR TRIM PACKAGE BASIS OF DESIGN ON SHEET A6.04 FOR ADDITIONAL INFORMATION.
- (4) REF. EXTERIOR ELEVATIONS FOR ADDITIONAL FINISH LOCATIONS.
- (5) RESTROOM PARTITIONS TO BE (LAM-1) PER ELEVATIONS. (6) PROVIDE FRP TO 8'-0" ON ALL WALLS.
- (7) FLOOR FINISH AND STAIR LANDINGS TO BE FTL-1. STAIR TREADS TO BE FTL-2. STAIR RISERS TO BE FTL-3.
- (8) ACT SOFFIT IN SECOND LEVEL 'FUTURE TENANT' SPACES PER RCP.
- (9) REFERENCE EXTERIOR ELEVATIONS

	ROOM FINISH SCHEDULE												
ROOM ELD B					SE		WALLS			CEILIN	CEILING		
NO.	NAME	FLR.	N	Е	S	W	N	Е	S	W	MAT.	MAT. HEIGHT REMARKS	
100	VESTIBULE	FTL-4	TB-1	-	TB-1	TB-1	GL-1	GL-1	PT-1	PT-1	GB-1	12'-0"	(3)
101	LOBBY	FTL-1, FTL-2	TB-1	TB-1	TB-1, ST-2	TB-1	MP-1, ST-1, CON-1	PT-1, CON-1	PT-1, ST-2	PT-1, ST-1	GB-1	VAR	(1)
102	ELEVATOR	FTL-4	-	-	-	-	-	-	-	-	-	-	(3)
103	WEST STAIR FIRST FLOOR	SEE REMARKS	-	TB-1	TB-1	TB-1	PT-1	PT-1	PT-1	PT-1	EXP, GB-2, WD-4	16'-6 1/2"	(7)
104	EAST STAIR FIRST FLOOR	SEE REMARKS	TB-1	TB-1	TB-1	TB-1	PT-1	PT-1	PT-1	PT-1	EXP, GB-2, WD-4	16'-6 1/2"	(7)
105	FIRE RISER ROOM	CON-2	RB-1	RB-1	RB-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	EXP	-	
106	ELECTRICAL	CON-2	RB-1	RB-1	RB-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	EXP	-	(4)
107	ELECTRICAL	CON-2	RB-1	RB-1	RB-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	EXP	-	
108	FUTURE TENANTS	-	-	-	-	-	-	-	-	-	EXP	-	(2)
109	FUTURE TENANTS	-	-	-	-	-	-	-	-	-	EXP	-	
201	2ND FLOOR OFFICE LOBBY	FTL-1	RB-1, ST-1	RB-1, ST-2	RB-1, ST-2	RB-1, ST-1	MP-1, ST-1	ST-2, PT-1	PT-1, ST-2	PT-1, ST-1	EXP	-	(1)
202	ELEVATOR	FTL-4	-	-	-	-	-	-	-	-	-	-	(3)
203	WEST STAIR 2ND FLOOR	SEE REMARKS	TB-1	TB-1	TB-1	TB-1	PT-1	PT-1	PT-1	PT-1	EXP/GB-2	12'-0"	(7)
204	EAST STAIR 2ND FLOOR	SEE REMARKS	TB-1	TB-1	TB-1	TB-1	PT-1	PT-1	PT-1	PT-1	EXP/GB-2	12'-0"	(7)
205	WOMEN'S RR	FTL-1	-	-	-	-	PER ELEV	PER ELEV	PER ELEV	PER ELEV	GB-1	VAR	(1) (5)
206	MEN'S RR	FTL-1	-	-	-	-	PER ELEV	PER ELEV	PER ELEV	PER ELEV	GB-1	VAR	(1) (5)
207	JANITOR	CON-2	RB-1	RB-1	RB-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	EXP	-	(6)
208	ELECTRICAL	CON-2	RB-1	RB-1	RB-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	EXP	-	
209	TELECOM	CON-2	RB-1	RB-1	RB-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	EXP	-	
210	FUTURE OFFICE TENANT	-	-	-	-	-	-	-	-	-	EXP, GB-1, ACT-1	VAR	(8)
211	FUTURE TENANTS	-	-	-	-	-	-	-	-	-	EXP, GB-1, ACT-1	VAR	(8)
212	COVERED ROOF DECK	CP-1	-	-	-	-	-	-	-	-	WD-1	14'-0"	(9)





# PARAGON STAR - LOT 9 -**BUILDING 2**

PARAGON STAR FIRST PLAT, LOT 9

LEE'S SUMMIT, MO Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET

REVISIONS

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL

LANDSCAPE HOERR SCHAUDT / **FOUNDATIONS** BSE STRUCTURAL **ENGINEERS** 

BSE STRUCTURAL

HENDERSON

**ENGINEERS** 

**ENGINEERS** PLUMBING HENDERSON **ENGINEERS** 

STRUCTURAL

MECHANICAL HENDERSON **ENGINEERS** 

ELECTRICAL

FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS ARCHITECTURE

7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

SHEET TITLE

FINISH SCHEDULE AND **DETAILS** 



PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

REVISIONS



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

> FINKLE + WILLIAMS ARCHITECTURE

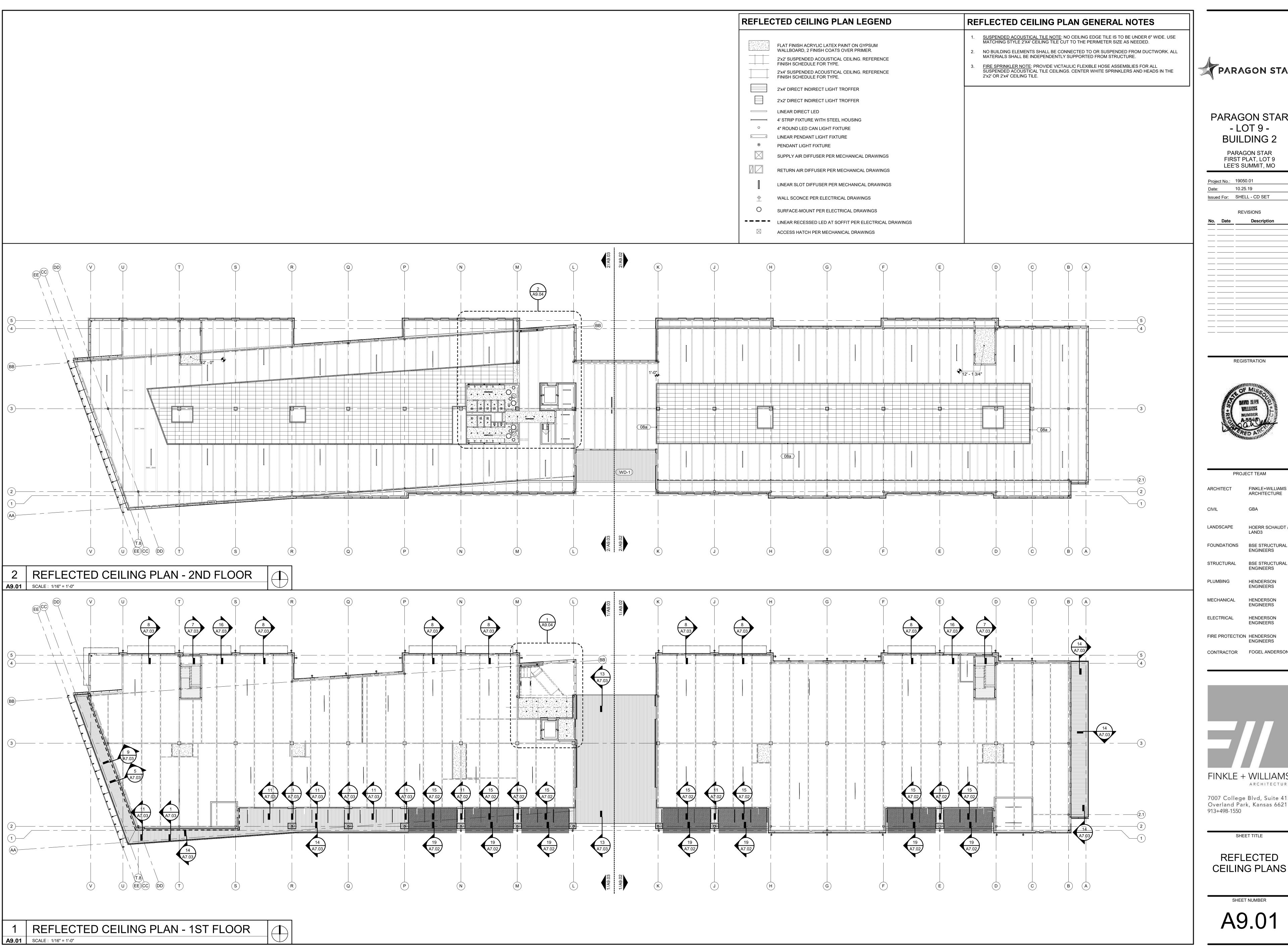
FTL-1

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SHEET TITLE

**ENLARGED** FLOOR FINISH **PLANS** 

SHEET NUMBER A8.11



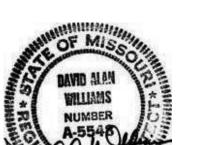
PARAGON STAR - LOT 9 -**BUILDING 2** 

> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET

REVISIONS

REGISTRATION



PROJECT TEAM

HENDERSON

FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

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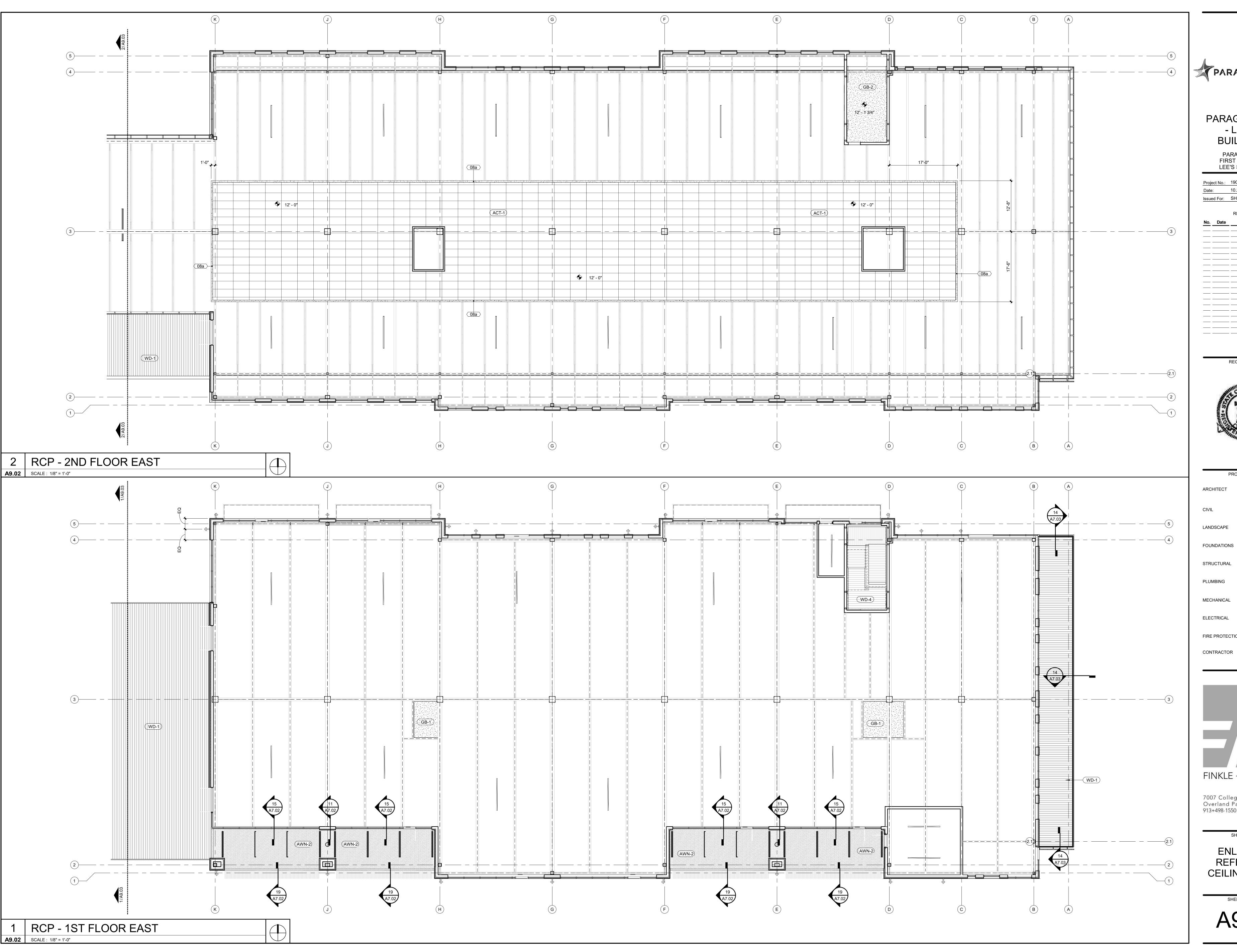
ARCHITECTURE

REFLECTED

**CEILING PLANS** 

SHEET TITLE

A9.01



PARAGON STAR - LOT 9 -**BUILDING 2** 

> FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

PARAGON STAR

Issued For: SHELL - CD SET

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS

LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL ENGINEERS

> BSE STRUCTURAL **ENGINEERS**

HENDERSON **ENGINEERS** 

> HENDERSON **ENGINEERS**

MECHANICAL HENDERSON

FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

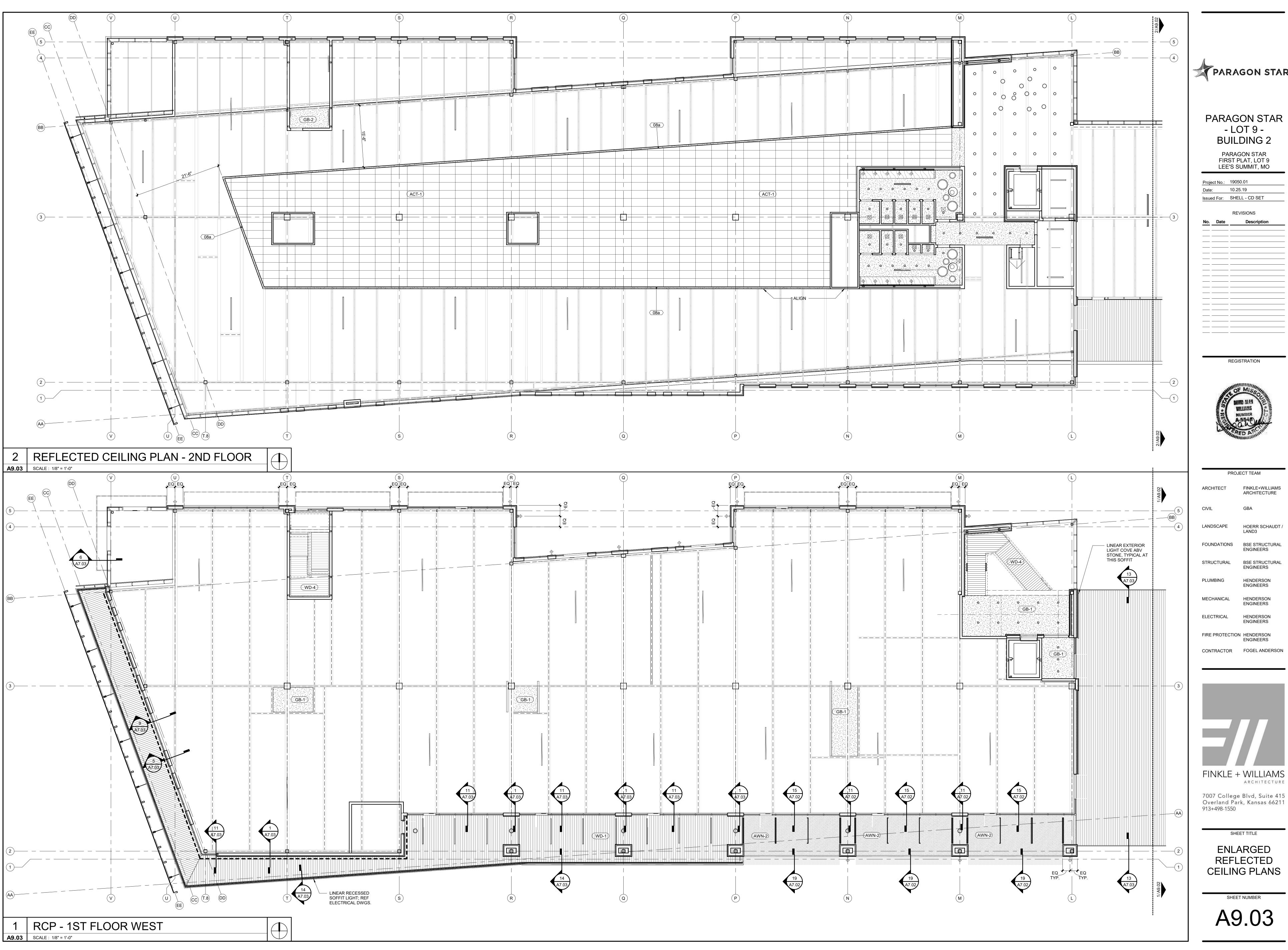
ARCHITECTURE

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SHEET TITLE

**ENLARGED** REFELCTED **CEILING PLANS** 

A9.02



PARAGON STAR - LOT 9 -**BUILDING 2** 

> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO



PROJECT TEAM FINKLE+WILLIAMS

HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL

> BSE STRUCTURAL HENDERSON

MECHANICAL HENDERSON ELECTRICAL

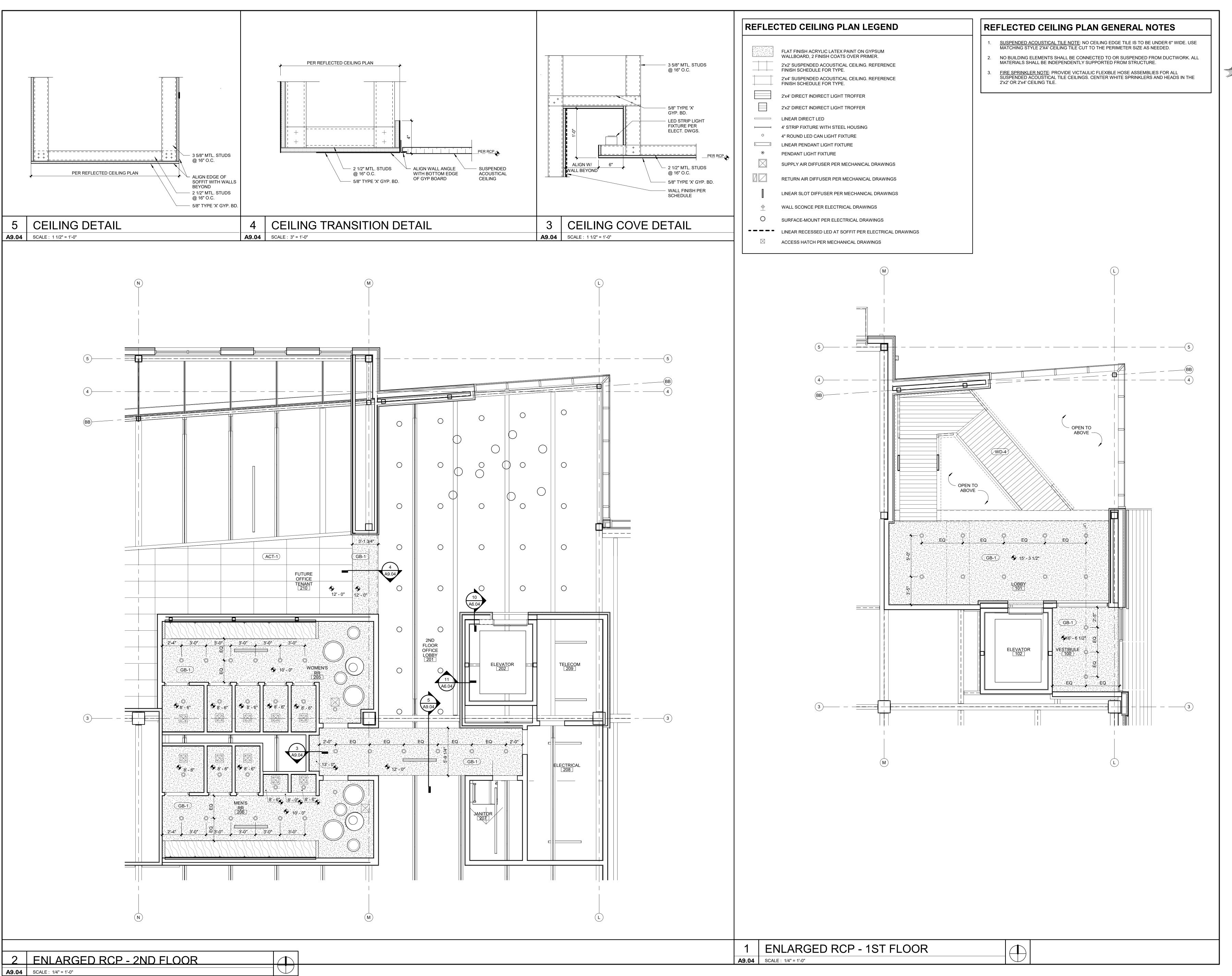
FIRE PROTECTION HENDERSON ENGINEERS CONTRACTOR FOGEL ANDERSON

7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

ARCHITECTURE

SHEET TITLE

**ENLARGED** REFLECTED **CEILING PLANS** 





> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

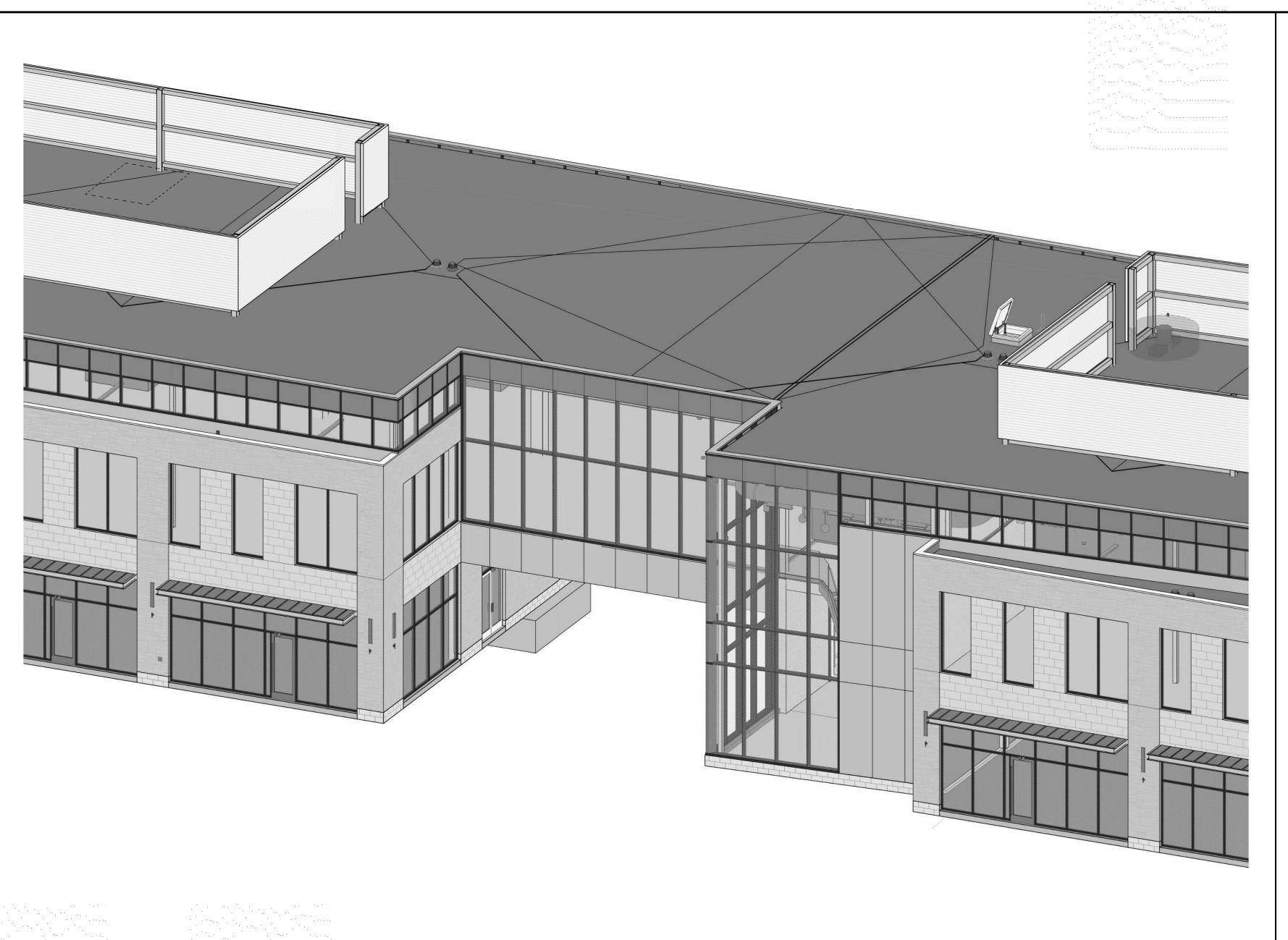
FINKLE + WILLIAMS

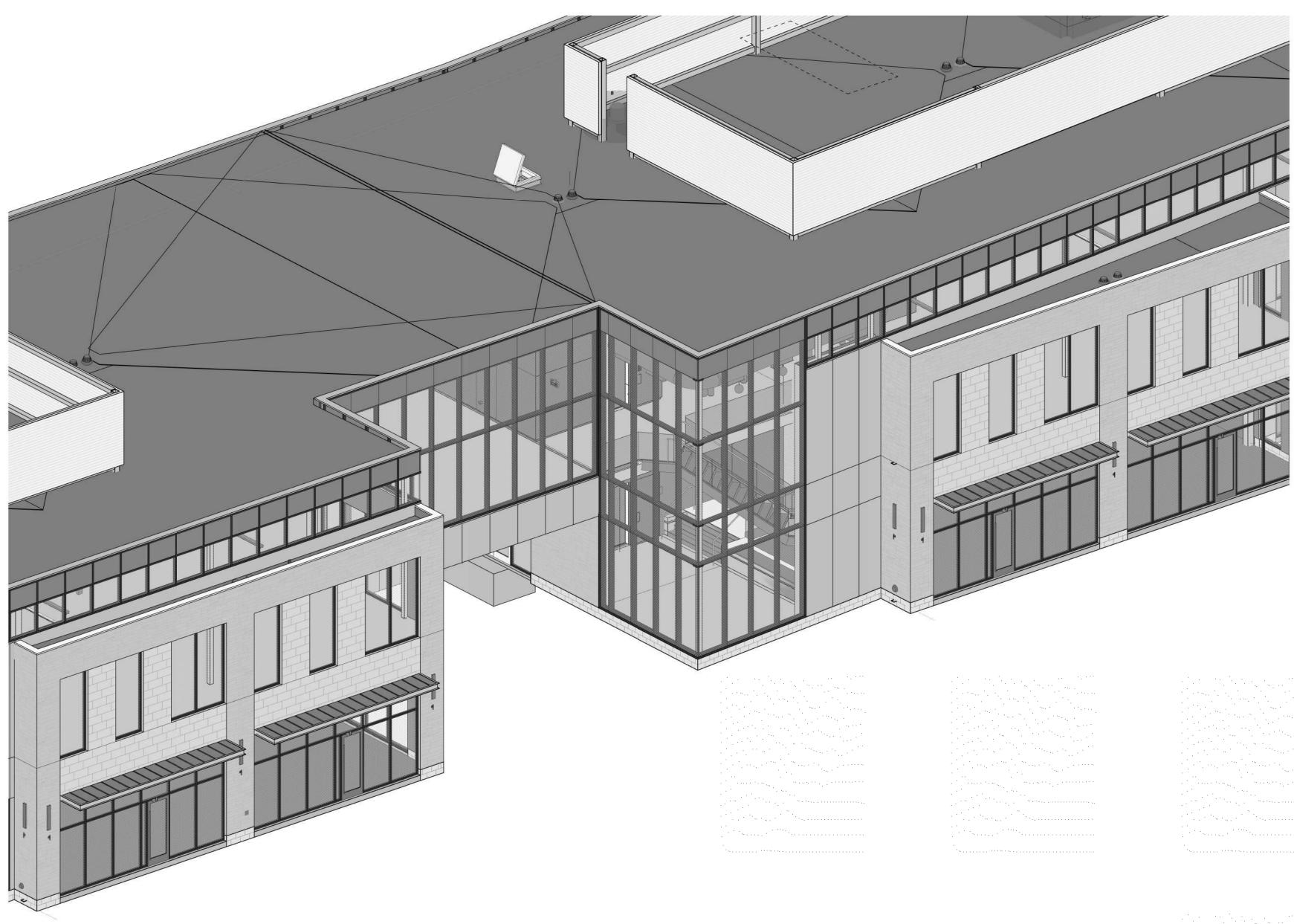
ARCHITECTURE 7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

SHEET TITLE **ENLARGED** 

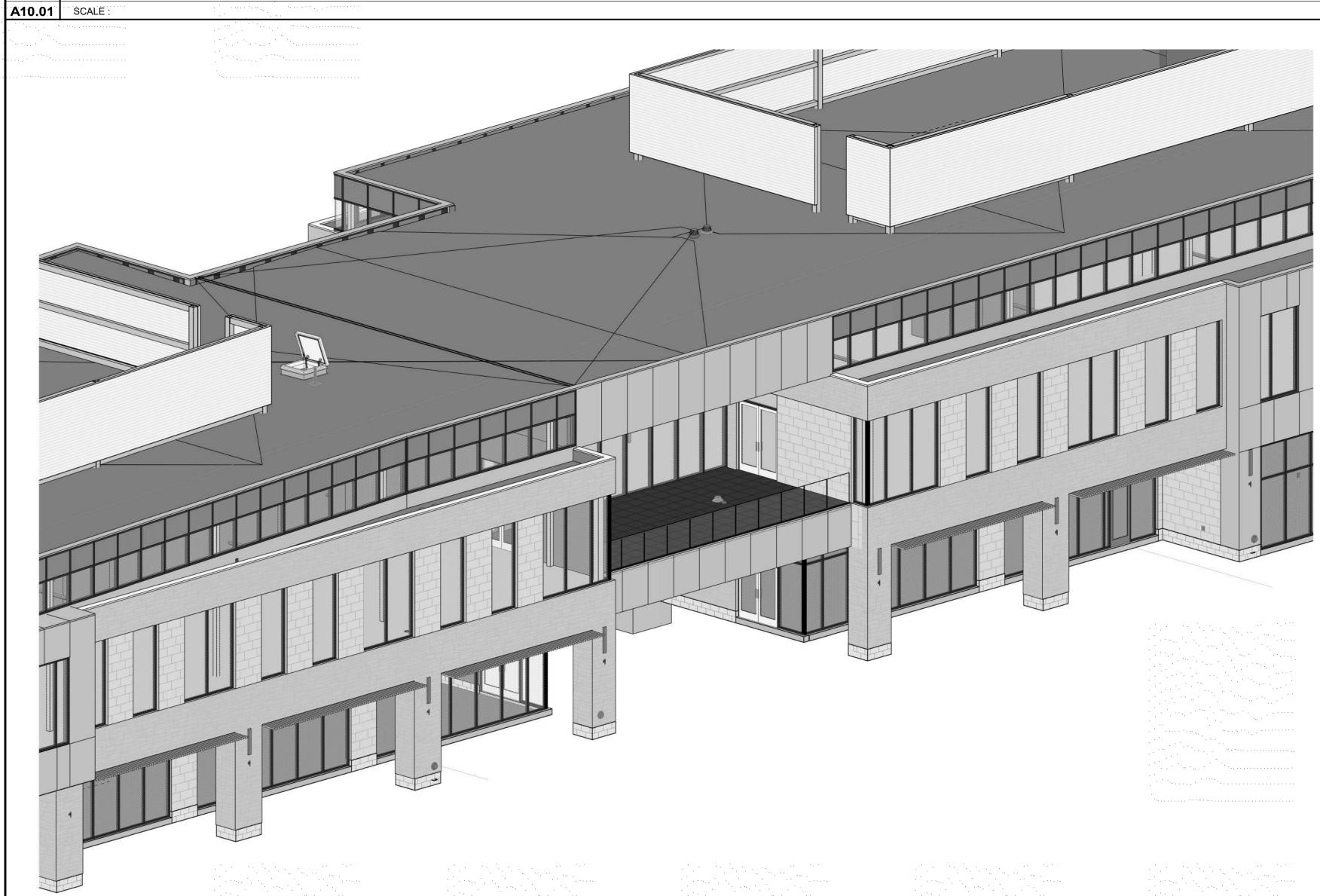
REFLECTED **CEILING PLANS** 

A9.04

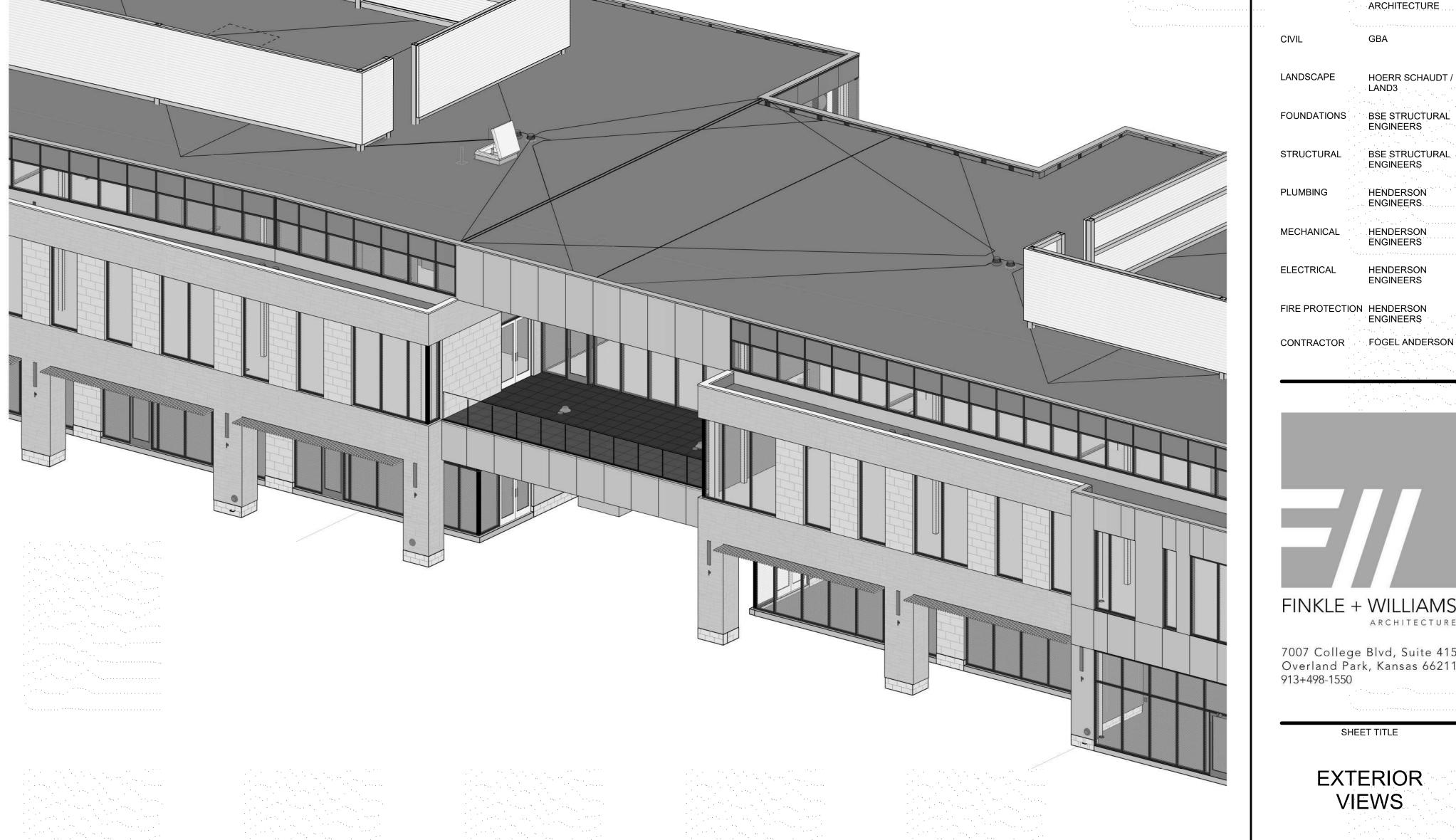




3D AXON 3A



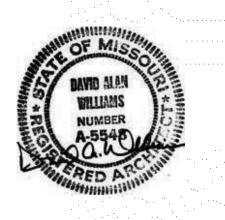
3D AXON 3B A10.01 SCALE:



PARAGON STAR

PARAGON STAR - LOT 9 -BUILDING 2

> FIRST PLAT, LOT 9 LEE'S SUMMIT, MO



PROJECT TEAM

FINKLE+WILLIAMS

HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL ENGINEERS

BSE STRUCTURAL ENGINEERS

HENDERSON ENGINEERS HENDERSON **ENGINEERS** 

ELECTRICAL HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON ENGINEERS

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SHEET TITLE

ARCHITECTURE

EXTERIOR

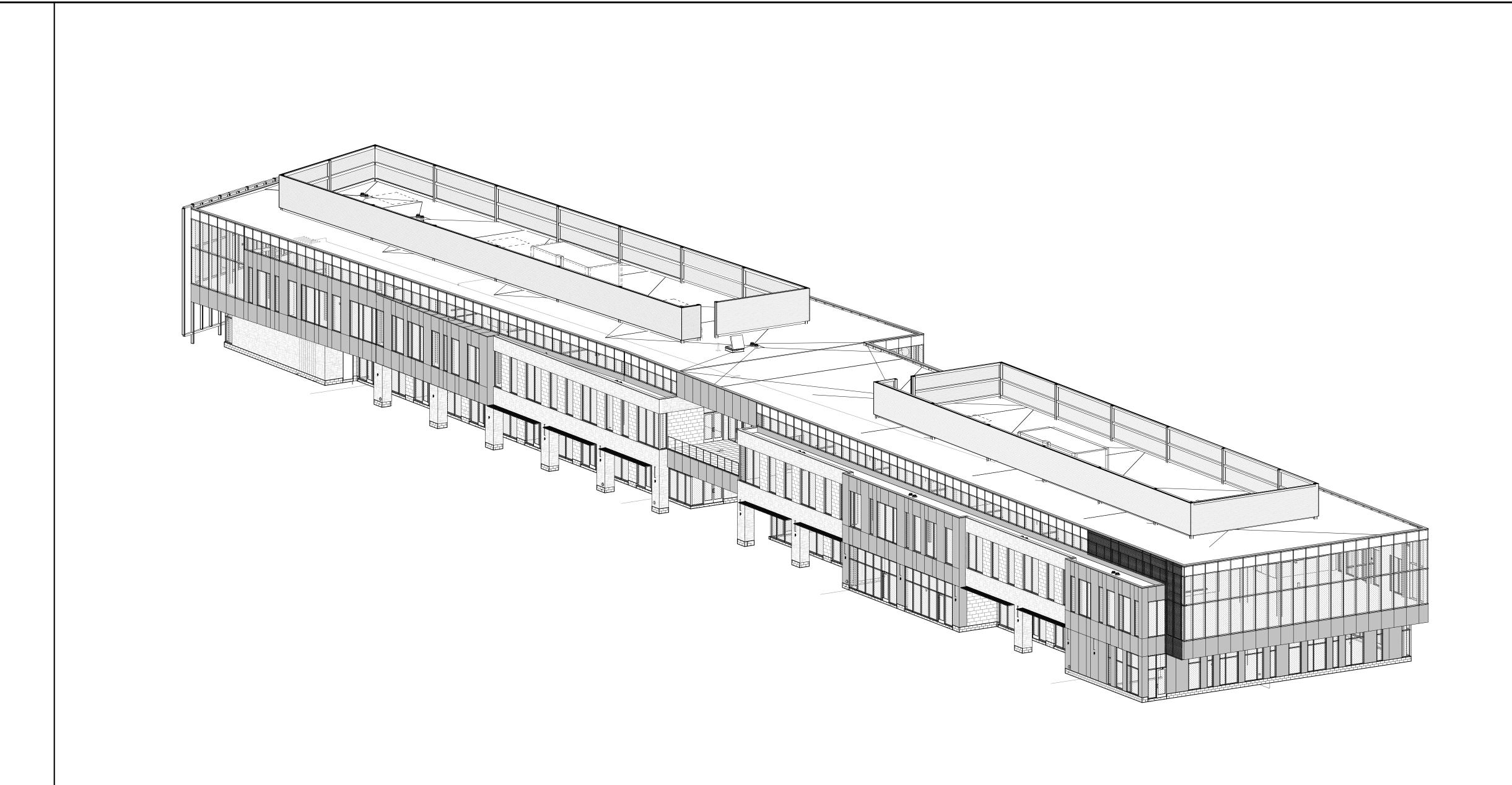
VIEWS

SHEET NUMBER

A10.01

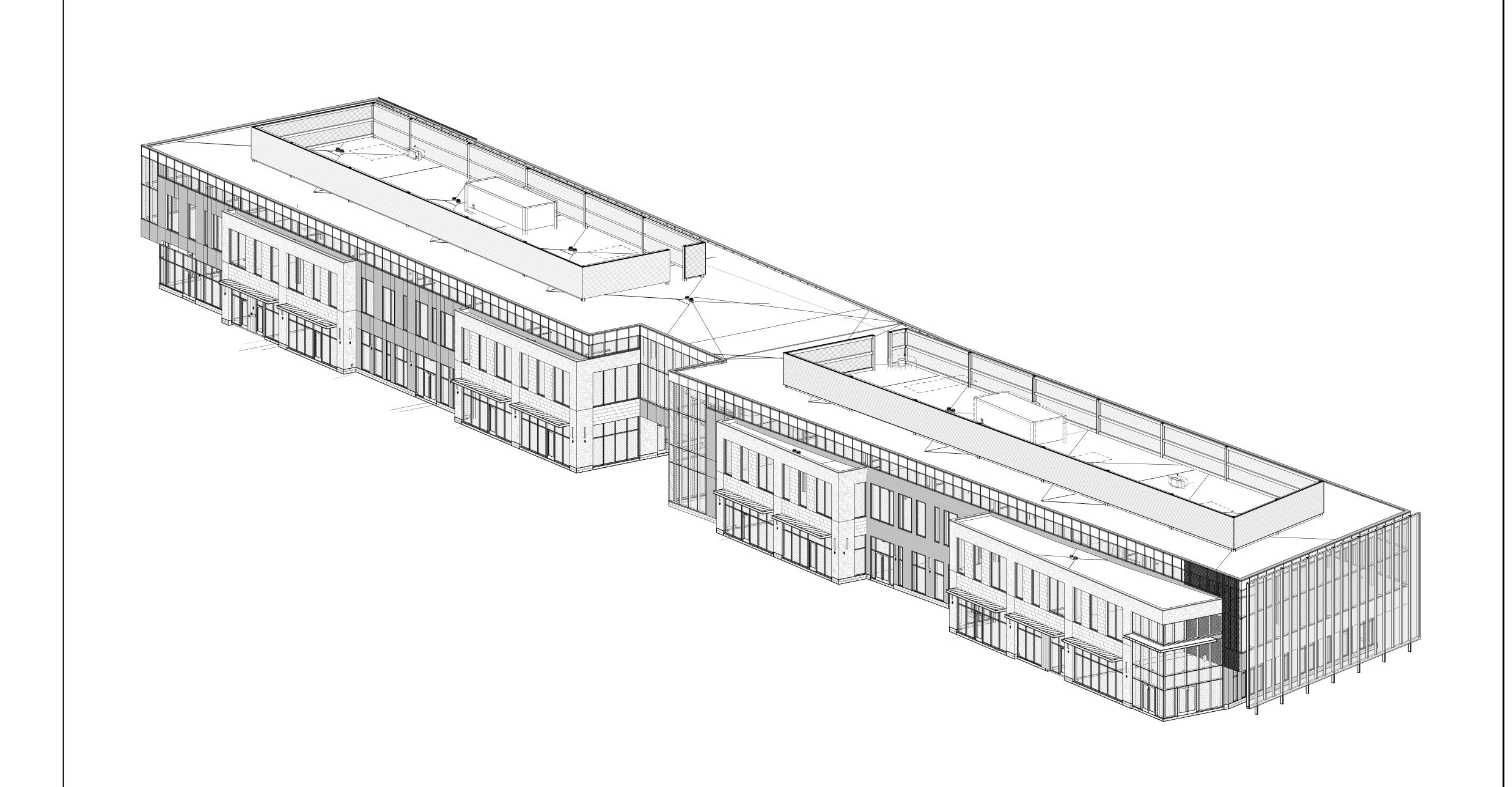
3 3D AXON 4A **A10.01** SCALE:

4 3D AXON 4B A10.01 SCALE:



# 3D AXON - FROM SOUTHEAST

**A10.02** SCALE:



PARAGON STAR

PARAGON STAR - LOT 9 -**BUILDING 2** 

> PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO



PROJECT TEAM FINKLE+WILLIAMS

HOERR SCHAUDT /

FOUNDATIONS BSE STRUCTURAL ENGINEERS **ENGINEERS** 

> HENDERSON **ENGINEERS**

HENDERSON

HENDERSON MECHANICAL

ELECTRICAL

FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS ARCHITECTURE

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SHEET TITLE

EXTERIOR VIEWS

SHEET NUMBER A10.02

3D AXON - FROM NORTHWEST

A10.02 SCALE:

#### **DIVISION 1 - GENERAL REQUIREMENTS**

- A. IF ANY ALTERNATES ARE INDICATED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL FURNISH A SEPARATE PRICE FOR ALL MATERIAL. TAXES, FREIGHT. MARKUP, DELIVERY, LABOR, OVERHEAD AND PROFIT FOR THAT PORTION OF THE WORK. THE PROPOSED ALTERNATE MAY THEN BE ADDED OR DEDUCTED FROM THE CONTRACT SUM IF THE OWNER ACCEPTS THE ALTERNATE.
- UNIT PRICES A. IF ANY UNIT PRICES ARE REQUESTED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL FURNISH A PRICE INCLUDING ALL NECESSARY MATERIAL, TAXES, FREIGHT, MARKUP, DELIVERY, LABOR, OVERHEAD, AND PROFIT PER UNIT OF MEASUREMENT FOR WORK THAT MAY BE ADDED OR DEDUCTED FROM THE CONTRACT SUM IF ESTIMATED QUANTITIES OF WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS ARE INCREASED OR DECREASED.
- CHANGE ORDERS

A. WHEN CHANGES TO THE CONTRACT SUM OR SCHEDULE ARE NECESSARY, CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF THE PROPOSED CHANGE ORDER AND SUPPORTING DOCUMENTATION TO THE ARCHITECT FOR REVIEW. BEFORE PROCEEDING WITH WORK RELATED TO CHANGE ORDERS, CONTRACTOR SHALL OBTAIN OWNER'S WRITTEN APPROVAL.

- 4. PAYMENT APPLICATIONS
- A. PRIOR TO SUBMITTAL OF EACH FORMAL MONTHLY PAYMENT APPLICATION, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT AN ELECTRONIC DRAFT OF THE PROPOSED PAYMENT APPLICATION WITH A SCHEDULE OF VALUES INDICATING THE ESTIMATED PERCENT COMPLETE IN EACH CATEGORY. FOLLOWING REVIEW AND ADJUSTMENT (IF ANY) OF THE DRAFT, CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF THE PROPERLY EXECUTED PAYMENT APPLICATION.
- CONTRACTOR SHALL PREPARE AND SUBMIT SUBMITTALS REQUIRED BY INDIVIDUAL SPEC SECTIONS ELECTRONICALLY, EMAILED OR ONLINE PROJECT MANAGEMENT SOFTWARE, FOR ARCHITECT'S REVIEW. PHYSICAL SAMPLES SHOULD BE DELIVERED TO THE ARCHITECT'S OFFICE

SCHEDULE OF VALUES, AND LIEN WAIVERS FOR ARCHITECT'S REVIEW.

- PROCESSING TIME: INITIAL REVIEW: MIN. 10 DAYS RESUBMITTAL REVIEW (AS REQUIRED): MIN. 5 DAYS
- <u>CERTIFICATES AND CERTIFICATIONS SUBMITTALS</u>: INCLUDES SIGNATURE OF ENTITY RESPONSIBLE FOR PREPARING CERTIFICATION [PROVIDE DIGITAL SIGNATURE ON ELECTRONICALLY SUBMITTED CERTIFICATES AND CERTIFICATIONS WHERE INDICATED] DELEGATED-DESIGN SERVICES CERTIFICATION: IN ADDITION TO OTHER REQUIRED
- SUBMITTALS, SUBMIT DIGITALLY SIGNED PDF ELECTRONIC FILE, SIGNED AND SEALED BY THE RESPONSIBLE DESIGN PROFESSIONAL BIM INCORPORATION [BY CONTRACTOR] IF REQUIRED BY OWNER. CONTRACTOR'S SUBMITTAL REVIEW: CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. MARK WITH APPROVAL STAMP BEFORE
- SUBMITTING TO ARCHITECT. 1. ARCHITECT WILL NOT REVIEW SUBMITTALS THAT DO NOT HAVE CONTRACTOR'S REVIEW AND APPROVAL
- A. THE OWNER SHALL ENGAGE AN INDEPENDENT TESTING AGENCY TO PERFORM CODE-REQUIRED "SPECIAL INSPECTIONS" AND QUALITY CONTROL TESTING. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING TIMES FOR TESTS, INSPECTIONS, AND OBTAINING SAMPLES AND NOTIFYING TESTING AGENCY.
- 1.9 REFERENCE STANDARDS A. CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE MOST RECENT STANDARDS IN EFFECT AS OF THE DATE OF THE CONSTRUCTION DOCUMENTS, UNLESS INDICATED
- A. PUNCHLIST PRIOR TO SCHEDULING A SUBSTANTIAL COMPLETION WALK-THROUGH TO DEVELOP A PUNCHLIST OF ITEMS REQUIRING COMPLETION. PROJECT SHALL BE FINAL CLEANED, TOUCH-UP PAINTED, AND DAMAGED CEILING TILE REPLACED. UPON ARRIVAL, IF THE ARCHITECT DETERMINES THE PROJECT IS NOT READY FOR WALK-THROUGH, THE PUNCHLIST SHALL BE RESCHEDULED. 1. WHEN THE CONTRACTOR CONSIDERS THE PUNCHLIST ITEMS FULLY COMPLETED, A FINAL WALK-THROUGH SHALL BE SCHEDULED TO REVIEW THE COMPLETED
- PRIOR TO PROJECT COMPLETION, CONTRACTOR SHALL SUBMIT/COMPLETE THE ONE (1) SET OF CONSTRUCTION DRAWINGS NEATLY MARKED UP TO SHOW ACTUAL INSTALLATION WHERE INSTALLATION VARIES FROM THAT SHOWN ON ORIGINALLY ON THE CONSTRUCTION DOCUMENTS.
- 2. TWO (2) COPIES OF OPERATION AND MAINTENANCE MANUALS INCLUDING SUBCONTRACTOR AND SUPPLIER CONTACT INFORMATION, MAINTENANCE AND SERVICE INSTRUCTIONS. SCHEDULES, EMERGENCY INSTRUCTIONS, SPARE PARTS LISTS, WIRING DIAGRAMS, AND WARRANTY INFORMATION.
- 3. TRAINING OF OWNER PERSONNEL ON USE AND MAINTENANCE OF MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ALARM, SECURITY, IRRIGATION, AND OTHER BUILDING SYSTEMS.

# **DIVISION 2 - SITE WORK**

SEE CIVIL AND LANDSCAPE PLANS AND SPECIFICATIONS

# **DIVISION 3 - CONCRETE**

SEE STRUCTURAL PLANS AND SPECIFICATIONS

# **DIVISION 4 - MASONRY**

# 047200 CAST STONE

- SUBMITTALS: PRODUCT DATA, SAMPLES, AND SHOP DRAWINGS INDICATING DIMENSIONS JOINT LOCATIONS, RUSTICATION, EDGE CONDITIONS, EMBED LOCATIONS, AND
- B. <u>FABRICATOR</u>: A PRODUCING MEMBER OF THE CAST STONE INSTITUTE.
- CAST STONE UNITS: UNITS SHALL COMPLY WITH ASTM C1364, SHALL RESIST FREEZE-HAW, SLOPE HORIZONTAL SURFACES 1:12 MINIMUM AND SHALL HAVE DRIPS ON PROJECTING ELEMENTS UNLESS NOTED OTHERWISE.
- D. <u>COLOR AND TEXTURE</u>: TO BE SELECTED
- E. <u>ANCHORS AND DOWELS</u>: TYPE 304 STAINLESS STEEL
- INSTALLATION: UNITS SHALL BE FULLY CURED PRIOR TO INSTALLATION. INSTALL CAST STONE UNITS SET IN FULL BED OF MORTAR WITH FULL HEAD JOINTS. RAKE OUT ALL JOINTS TO MINIMUM 3/4" AND INSTALL SEALANT TO MATCH CAST STONE (COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND SHALL BE VERIFIED FROM A 12" LONG FIELD APPLIED SAMPLE PRIOR TO COMPLETE INSTALLATION).
- CLEANING AND PATCHING: EXPOSED FACES OF CAST STONE UNITS SHALL BE PROTECTED FROM MORTAR AND STAINING DURING CONSTRUCTION. AFTER MORTAR IS THOROUGHLY SET AND CURED, CAST STONE SHALL BE CLEANED WITH A PRODUCT EXPRESSLY APPROVED FOR USE BY CLEANER MANUFACTURER AND CAST STONE MANUFACTURER EXCESSIVE STAINING AND AN UNEVEN APPEARANCE SHALL BE CAUSE FOR REJECTION. MINOR PATCHING SHALL BE ALLOWED PROVIDED PATCH CAN BE BLENDED TO MATCH UNITS. UNITS WITH SIGNIFICANT CHIPS OR BREAKAGE SHALL BE REFABRICATED.

# 042000 UNIT MASONRY ASSEMBLIES

- SUBMITTALS: PRODUCT DATA FOR MASONRY UNITS AND ACCESSORIES INCLUDING THREE SAMPLES OF EACH BRICK OR CMU UNIT TO ILLUSTRATE COLOR AND TEXTURE RANGE.
- MASONRY UNITS: COMPLY WITH ACI 530.1/ASCE 6/TMS 602 1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT WITH SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS. BULLNOSE UNITS FOR OUTSIDE CORNERS, DOOR AND WINDOW JAMBS, AND SILLS, UNLESS OTHERWISE INDICATED.
- 2. DECORATIVE CONCRETE MASONRY UNITS: ASTM C90 NORMAL WEIGHT WITH INTEGRAL WATER REPELLANT AND SPECIAL SHAPES FOR LINTELS, CORNERS JAMBS. SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS. BULLNOSE UNITS FOR OUTSIDE CORNERS, DOOR AND WINDOW JAMBS, AND SILLS, UNLESS OTHERWISE INDICATED.
- CONCRETE LINTELS: PRECAST UNITS MATCHING CMU WITH REINFORCING AS INDICATED OR AS REQUIRED TO SUPPORT LOADING.
- 4. FACE BRICK: ASTM C 216, GRADE SW, TYPE FBS, SIZE AND COLOR PER

- MORTAR: ASTM C 270 PROPORTION SPECIFICATION, TYPE S ABOVE GRADE, TYPE M GROUT: ASTM C 476 WITH A SLUMP OF 8-11 INCHES, 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM.
- REINFORCEMENT: SEE STRUCTURAL CONSTRUCTION DOCUMENTS FOR SPECIFICATIONS
- TIES AND ANCHORS: HOT-DIP GALVANIZED STEEL, TWO-PIECE, ADJUSTABLE MASONRY VENEER ANCHORS THAT ALLOW VERTICAL OR HORIZONTAL ADJUSTMENT BUT RESIST TENSION AND COMPRESSION FORCES PERPENDICULAR TO THE PLANE OF THE WALL DESIGNED FOR ATTACHMENT OVER SHEATHING TO STUDS AND ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
- FLASHING: [45 MIL EPDM], [STAINLESS STEEL 0.0156 INCH THICK]
- COMPRESSIBLE FILLER: PREMOLDED STRIPS ASTM 1056. GRADE 2A1 PREFORMED CONTROL JOINTS: SBR OR PVC DESIGNED TO FIT STANDARD SASH
- WEEP HOLES: 1/4"-3/8"x24" COTTON OR POLYPROPYLENE ROPE.
- CAVITY INSULATION: POLYISOCYANURATE BOARD ASTM C 1289, TYPE 1, CLASS 2, ALUMINUM FOIL FACED 5. MORTAR NET: INSTALL SAWTOOTH MESH MORTAR NET IN ALL MASONRY DRAINAGE
- 6. FIELD-APPLIED CLEAR WATERPROOF SEALER

#### (UNIT MASONRY CONT.)

MIX MASONRY UNITS FROM DIFFERENT PALLETS FOR UNIFORM BLEND OF COLOR AND TEXTURE. INSTALL MASONRY UNITS W/ UNIFORM BED AND HEAD JOINTS IN FULL BED OF MORTAR WITH FULL HEAD JOINTS IN RUNNING BOND (UNLESS NOTED OTHERWISE)

KEEPING CAVITIES CLEAN OF MORTAR AND DEBRIS. TOOL MORTAR JOINTS SLIGHTLY FLASHING: INSTALL THROUGH-WALL FLASHING AND WEEP HOLES AT 24" O.C. AT ALL HELF ANGLES, LINTELS, LEDGES, AND OTHER OBSTRUCTIONS TO THE DOWNWARD FLOW OF WATER. FLASHING SHALL BE PLACED ON A SLOPING BED OF MORTAR AND SHALL EXTEND 1/4" BEYOND FACE OF MASONRY AND BE TRIMMED STRAIGHT AND TRUE. JOINTS IN FLASHING SHALL BE SEALED AND 2" HIGH DAMS SHALL BE FORMED

AT END OF FLASHING. WICKS SHALL BE TRIMMED FLUSH WITH FACE OF MASONRY. LINTELS: INSTALL LINTELS ABOVE ALL OPENINGS AND WHERE INDICATED WITH MINIMUM 8" BEARING AT EACH JAMB AND FILL CORES IN MASONRY UNDER EACH LINTEL BEARING FULL HEIGHT OF JAMB. CLEANING: CLEAN MASONRY AS THE WORK PROGRESSES AND WHEN MORTAR IS

HOROUGHLY SET AND CURED, CLEAN WITH A PROPRIETARY CLEANER APPROVED BY

#### 044313.16 ADHERED STONE MASONRY VENEER

- PRODUCT DATA FOR CULTURED STONE PRODUCTS AND ACCESSORIES THREE (3) SAMPLES OF EACH STONE TO ILLUSTRATE COLOR AND TEXTURE RANGE SHOP DRAWINGS DEPICTING PROPER INSTALLATION AND FLASHING
- PROVIDE MANUFACTURERS 50-YEAR LIMITED WARRANTY

BRICK MANUFACTURER TO REMOVE EXCESS MORTAR

# MANUFACTURED STONE VENEER: BASIS OF DESIGN: CULTURED STONE BY BORAL, REFER TO ELEVATIONS FOR COLOR,

- FINISH, AND LOCATIONS 1. PERFORMANCE CRITERIA: CONFORMING WITH ASTM C1670:
- a. COMPRESSIVE STRENGTH: >1800 PSI FOR 5 SPECIMANS AND >2100 PSI FOR INDIVIDUAL SPECIMAN (ASTM C 39 AND ASTM C 192) BOND BETWEEN MANUFACTURED MASONRY UNIT, MORTAR AND BACKING: NOT LESS THAN 50 PSI (ASTM C177)
- THERMAL RESISTANCE: R-VALUE NOT LESS THAN 0.355 PER INCH (ASTM C 177) FREEZE/THAW: NO DISINTEGRATION AND < 3% WEIGHT LOSS (ASTM C 67) WATER ABSORPTION: TESTED IN ACCORDANCE WITH UBC 15-5 9-22%
- FLAMESPREAD: 25 SMOKE DEVELOPMENT: 450

UNIT WEIGHT: <15 PSF SATURATED

- UV STABLE MINERAL OXIDE PIGMENTS
- CERTIFICATIONS: a. ICC ES AC 51 ACCEPTANCE CRITERIA FOR MANUFACTURED STONE VENEER
- ACCESSORIES: INCLUDE MATCHING CORNER PIECES EXPANDED METAL LATH: 3.4 LB/SQ YARD, SELF-FURRING, DIAMOND-MESH LATH COMPLYING WITH ASTM C 847, FABRICATE FROM STRUCTURAL QUALITY, ZINC-COATED (GALVANIZED) STEEL SHEET COMPLYING WITH ASTM A 653/A 653M, G60.
- STRANDS FULL WIDTH OF HEAD JOINT AND 2 INCHES HIGH BY THICKNESS OF STONE MASONRY, IN COLOR SELECTED FROM MFR FULL RANGE. WEEP SCREED: PVC MATERIAL MEETING ASTM D 1784 FOR PVC COMPOUNDS, COLOR SELECTED FROM MFR FULL RANGE.

MESH WEEP HOLES: FREE DRAINING MESH MADE FROM POLYETHYLENE

- GENERAL: DO NOT USE ADMIXTURES UNLESS OTHERWISE INDICATED. DO NOT USE CALCIUM CHLORIDE
- USE PORTLAND CEMENT-LIME MORTAR UNLESS OTHERWISE INDICATED. POLIMER/LATEX MODIFIED PORTLAND CEMENT SETTING MORTAR COMPLYING WITH ANSI 118.4, 118.11 OR 118.15 UNLESS OTHERWISE RECOMMENDED BY MFR.
- METAL FLASHING: PROVIDE STAINLESS STEEL, TYPE 304, 4MM THICK METAL FLASHING WHERE FLASHING IS EXPOSED. FABRICATE METAL DRIP EDGES FROM STAINLESS STEEL, EXTEND AT LEAST 3" INTO WALL AND 1/2" OUT FROM WALL WITH OUTER EDGE BENT DOWN 30 DEGREES AND HEMMED.
  - FLEXIBLE FLASHING: FOR FLASHING UNEXPOSED TO EXTERIOR USE RUBBERIZED ASPHALT FLASHING NOT LESS THAN .030 INCHES THICK.
- INSTALL PRODUCT IN ACCORDANCE WITH MVMA INSTALLATION GUIDE FOR ADHERED MANUFACTURED STONE VENEER, ASTM C 1780 AND IN ACCORDANCE WITH
- MANUFACTURER'S INSTALLATION INSTRUCTIONS INSTALL/APPLY RELATED MATERIALS IN ACCORDANCE WITH TYPE OF SUBSTRATE AND MANUFACTURED STONE VENEER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL EMBEDDED FLASHING AND WEEP HOLES AT SHELF ANGLES, LINTELS,
- LEDGES, OTHER OBSTRUCTIONS TO DOWNWARD FLOW OF WATER IN WALL AND A. AT STUD FRAMED WALLS, EXTEND FLASHING THROUGH STONE MASONRY, UP SHEATHING FACE AT LEAST 12 INCHES AND BEHIND WEATHER BARRIER.
- 4. INSTALLATION OF ADHERED STONE MASONRY VENEER
- INSTALL NECESSARY WEEP SCREED AT BASE OF WALL AND OVER OPENINGS INSTALL LATH OVER BUILDING INSULATION AND FASTEN IN ACCORDANCE WITH TECHNICAL EVALUATION REPORT TER 1312-01 'BORAL STONE - ADHERED MASONRY VENEER APPLICATION OVER CONIUOUS INSULATION'
- INSTALL SCRATCH COAT OVER METAL LATH 1/2"-3/4" THICK TO FULLY ENGAGE LATH. COMPLY WITH ASTM C926 COAT 100% OF THE BACKS OF STONE UNITS AND FACE OF SCRATCH COAT WITH CEMENT-PASTE BOND COAT, THEN BUTTER BOTH SUFRACES WITH SETTING MORTAR. USE SUFFICIENT SETTING MORTAR, SO A SLIGHT EXCESS WILL BE
- FORCED OUT THE EDGES OF STONE UNITS AS THEY ARE SET. TAP UNITS INTO PLACE, COMPLETELY FILLING SPACE BETWEEN UNITS AND SCRATCH COAT. E. RAKE OUT JOINTS FOR POINTING WITH MORTAR TO DEPTH OF NOT LESS THAN 1/2" BEFORE SETTING MORTAR HAS HARDNED. RAKE JOINTS TO UNIFORM DEPTHS WITH SQUARE BOTTOMS AND CLEAN SIDES.
- G. <u>CLEANING</u>: CLEAN CULTURED STONE VENEER AS THE WORK PROGRESSES AND WHEN MORTAR IS THOROUGHLY SET AND CURED, CLEAN WITH A PROPRIETARY CLEANER APPROVED BY MANUFACTURER TO REMOVE EXCESS MORTAR

# - END DIVISION 4 -

# **DIVISION 5 - METALS**

# 051200 STRUCTURAL STEEL

- SEE STRUCTURAL CONSTRUCTION DOCUMENTS FOR STRUCTURAL STEEL SPECIFICATIONS.
  - EXTERIOR FABRICATIONS: ALL STRUCTURAL STEEL EXPOSED TO THE EXTERIOR INCLUDING MASONRY LINTELS SHALL BE GALVANIZED AND FACTORY PRIMED READY
- FOR FINISH PAINTING, UNLESS NOTED OTHERWISE 2. INTERIOR FABRICATIONS: FACTORY PRIMED, UNLESS NOTED OTHERWISE.

# 055113 METAL STAIRS AND RAILINGS

- SHOP DRAWINGS AND CALCULATIONS INDICATING MEMBER SIZES AND LAYOUT, VERTICAL AND HORIZONTAL DIMENSIONS, EDGE CONDITIONS, AND CONNECTION DETAILS SIGNED AND SEALED BY A QUALIFIED STRUCTURAL ENGINEER.
- METAL STAIRS AND RAILINGS SHALL BE DESIGNED BY FABRICATOR TO SUPPORT CODE-REQUIRED LOADING AND TO MATCH THE CONFIGURATIONS INDICATED IN THE CONSTRUCTION DOCUMENTS.
- 1. FABRICATE ITEMS IN LARGEST PRACTICAL SECTIONS FOR DELIVERY TO SITE WITH JOINTS TIGHTLY FITTED AND SECURED WITH EXPOSED JOINTS WELDED AND GROUND FLUSH AND SMOOTH.
- WALL-MOUNT HANDRAIL BRACKETS: SINGLE HOLE FORMED HANDRAIL BRACKET W/ WALL FILLER AND SNAP-ON COVER (WAGNER 1929, OR SIMILAR)
- EXTERIOR FABRICATIONS: GALVANIZED AND PRIME PAINTED READY FOR FINISH PAINTING, UNLESS NOTED OTHERWISE. INTERIOR FABRICATIONS: PRIME PAINTED READY FOR FINISH PAINTING
- I. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE FABRICATED FROM SAME
- MATERIAL AND FINISH AS FABRICATION UNLESS NOTED OTHERWISE. SHIM AND LEVEL FABRICATIONS AS NECESSARY. COAT CONCEALED SURFACES OF ALUMINUM FABRICATIONS IN CONTACT WITH CONCRETE, GROUT, MASONRY, WOOD, OR DISSIMILAR METALS WITH BITUMINOUS

# 057313 GLAZED DECORATIVE METAL RAILINGS

MANUFACTURER'S STANDARD WARRANTY

# PRODUCT DATA

- SHOP DRAWINGS INCLUDING PLANS, SECTIONS, AND DETAILS AT JOINTS AND PERIMETER CONDITIONS, ATTACHMENT, AND INTERFACE WITH WORK BY OTHERS. STRUCTURAL CALCULATIONS
- DELEGATED DESIGN: FOR PRODUCTS INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, SEALED DRAWINGS BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KANSAS.
- 1. BASIS OF DESIGN: STRUCT-U-RAIL AS MANUFACTURED BY LIVERS BRONZE CO. OR APPROVED EQUAL
- MATERIALS: A. ALUMINUM: CONFORMING TO ASTM B 2212 ALLOW 6063-T52 B. STAINLESS STEEL: CONFORMING TO ASTM A666, TYPE 304
- A. GLAZING: FULLY TEMPERED ASTM C 1048 KIND FT, QUALITY Q3, MONOLITHIC TEMPERED THICKNESS 1/2"-3/4" MIN. REQUIRED TO MEET ALL STRUCTURAL
- REQUIREMENTS. COLOR: CLEAR. POLISHED EDGE GLASS SUPPORT BASES: STANDARD EXTRUDED ALUMINUM BASE FOR 1/2" GLASS -MODEL 810A, 3/4" GLASS - MODEL 813. TOP MOUNT OR SIDE MOUNT BASE TO 1/2" EMBEDDED STEEL PLATE (BY STEEL FABRICATOR) OR STEEL STRINGER. ALUMINUM BASE IS MOUNTED CONTINUOUS AND IS ANCHORED AT 27" O.C. FOR STEEL AND 9" O.C. FOR CONCRETE.
- GLASS INFILL SHALL BE 1/2" TEMPERED OR LAMINATED GLASS, CONFORM TO SAFETY REQUIREMENTS OF ANSI Z97.1. GLASS IS GROUTED INTO ALUMINUM BASE. FITTINGS: SHALL BE STAINLESS STEEL
- E. HANDRAIL BRACKETS TO BE STAINLESS STELL.
- D. <u>FABRICATION</u>: ALL METAL FABRICATION TO BE PERFORMED BY A SIGNLE SOURCE FABRICATOR.

## **DIVISION 6 - WOOD AND PLASTICS**

061000 ROUGH CARPENTRY

SEE STRUCTURAL CONSTRUCTION DOCUMENTS FOR SPECIFICATIONS RELATED TO STRUCTURAL LUMBER, ENGINEERED WOOD PRODUCTS, PANEL PRODUCTS, FASTENERS, AND ACCESSORIES

- PRODUCT DATA FOR TREATED WOOD, ENGINEERED WOOD PRODUCTS, FOAM PLASTIC SHEATHING, AND BUILDING WRAP.
- **LUMBER: PROVIDE S4S, 19 PERCENT MAXIMUM MOISTURE CONTENT FOR 2-INCH NOMINAL** THICKNESS OR LESS, MARKED WITH GRADE STAMP OF INSPECTION AGENCY OF THE
- EXPOSED FRAMING: NO. 1 OR NO. 2,
- WALL SHEATHING:
- POLYISOCYANURATE FOAM: ASTM C 1289, TYPE I, CLASS 2, WITH ALUMINUM FOIL FACINGS. FOAM PLASTIC CORE AND FACINGS SHALL HAVE A FLAME SPREAD OF 25
- OR LESS WHEN TESTED INDIVIDUALLY. ROOF SHEATHING, WHERE INDICATED ON DRAWINGS
- PLYWOOD SUBFLOORING: EXTERIOR OR EXPOSURE 1, STRUCTURAL I TELEPHONE AND ELECTRICAL EQUIPMENT BACKING BOARDS: PLYWOOD, EXPOSURE 1, C-D PLUGGED, FIRE RETARDANT TREATED, 1/2" THICK.
- PRESERVATIVE-TREATED MATERIALS: APWA C2 LUMBER AND APWA C9 PLYWOOD, LABELED BY AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OF REVIEW. AFTER TREATMENT, KILN-DRY LUMBER TO 19 PERCENT MOISTURE CONTENT AND PLYWOOD TO 15 PERCENT. TREAT INDICATED ITEMS AND THE FOLLOWING:
- WATERPROOFING CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE
- FIRE-RETARDANT TREATED MATERIALS: COMPLY WITH PERFORMANCE REQUIREMENTS IN
- **FOLLOWING** INTERIOR RATED: TELEPHONE AND ELECTRICAL EQUIPMENT BACKING BOARDS EXTERIOR RATED: PLYWOOD SHEATHING AS DETAILED AT ROOF SOFFIT.
- FASTENERS: SIZE AND TYPE INDICATED, GALVANIZED WHEN EXPOSED TO WEATHER, GROUND CONTACT, OR AREAS OF HIGH HUMIDITY, STAINLESS STEEL WHEN FASTENING PRESERVATIVE-TREATED MATERIALS (CONTRACTOR SHALL CONFIRM COMPATIBILITY OF FASTENER MATERIAL WITH PRESERVATIVE).
- BUILDING PAPER: ASPHALT SATURATED ORGANIC FELT COMPLYING WITH ASTM D 226 TYPE 1 (NO. 15 ASPHALT FELT), UNPERFORATED.
- AIR BARRIERS: AIR-RETARDER SHEETING OR FLUID APPLIED COATING DESIGNED TO PREVENT WATER INSTRUSION FROM EXTERIOR TO INTERIOR BUT TO ALLOW WATER VAPOR TO PASS FROM INTERIOR TO EXTERIOR.
- SILL-SEALER: GLASS-FIBER INSULATION, 1" THICK, COMPRESSIBLE TO 1/32". ADHESIVE FOR FIELD GLUING PANELS TO FRAMING: APA AFG-01.
- TO LINE, CUT AND FITTED, DISCARD PIECES WITH DEFECTS THAT WOULD LOWER STRENGTH OR RESULT IN UNACCEPTABLE APPEARANCE OF EXPOSED MEMBERS. INSTALL STRUCTURAL MEMBER FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE
- SPECIFICALLY DETAILED. COMPLY WITH MEMBER SIZES, SPACING, CONFIGURATION, AND FASTENER SIZE AND SPACING AS INDICATED ON THE STRUCTURAL DRAWINGS, BUT NOT LESS THAN REQUIRED
- WALL STUD PARTITIONS THAT ARE PARALLEL TO FLOOR JOISTS. FRAME OPENINGS WITH TWO OR MORE STUDS AT EACH JAMB AND SUPPORT HEADERS
- PROVIDE DOUBLE 2x10 HEADERS WITH 1/2" PLYWOOD BETWEEN AND 2x4 BOTTOM PLATE AT ALL DOOR AND WINDOW OPENINGS UNLESS NOTED OTHERWISE. FURNISH CONCEALED BLOCKING AND NAILERS WHERE INDICATED AND AT ALL LOCATIONS
- INSTALL ROOF SHEATHING PERPENDICULAR TO FRAMING MEMBERS WITH ENDS STAGGERED AND SHEET ENDS OVER FIRM BEARING. PROVIDE PANELS CLIPS BETWEEN ROOF FRAMING MEMBERS AND SOLID EDGE BLOCKING BETWEEN SHEETS.
- INSTALL WALL SHEATHING PERPENDICULAR TO TO WALL STUDS WITH ENDS OVER FIRM BEARING AND STAGGERED. 10. INSTALL FLOOR SHEATHING PERPENDICULAR TO FLOOR JOISTS WITH ENDS OVER FIRM BEARING. GLUE AND NAIL SHEATHING TO EACH JOIST.

# 064023 INTERIOR ARCHITECTURAL WOODWORK

- SAMPLES OF FINISH MATERIALS, CATALOG CUTS OF HARDWARE, AND SHOP DRAWINGS
- WOODWORK QUALITY STANDARDS"
- HARDBOARD: AHA A235.4 MEDIUM DENSITY FIBERBOARD: ANSI A208.2, GRADE MD, MADE WITH BINDER CONTAINING
- PARTICLEBOARD: ANSI A208.1, GRADE M-2
- HARDWOOD PLYWOOD AND FACE VENEERS: HPVA HP-1, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE
- HINGES: CONCEALED (EUROPEAN-TYPE) BHMA A156.9 PULLS: AS SPECIFIED ON DRAWINGS DRAWER SLIDES: SIDE-MOUNTED, ZINC-PLATED FULL EXTENSION STEEL DRAWER

HIGH PRESSURE DECORATIVE LAMINATE: NEMA LD 3

- SLIDES WITH STEEL BALL BEARINGS. COMPLYING WITH BHMA A 156.9, GRADE 1 AND RATED AS FOLLOWS: BOX DRAWERS: 100lbf; FILES DRAWERS: 200 lbf, PENCIL DRAWERS: 45 lbf.
- HARDWARE FINISH: SATIN STAINLESS STEEL: BHMA 630
- COMPLETE FABRICATION BEFORE SHIPPING TO PROJECT SITE TO MAXIMUM EXTENT FEASIBLE. DISASSEMBLE ONLY AS NEEDED FOR SHIPPING AND INSTALLING. WHERE NECESSARY FOR FITTING AT PROJECT SITE, PROVIDE FOR SCRIBING AND TRIMMING.
- MEMBERS, EXCEPT WHERE ENDS WILL BE EXPOSED IN FINISHED WORK. INTERIOR STANDING AND RUNNING TRIM FOR TRANSPARENT FINISH: CUSTOM GRADE, SPECIES
- WOOD CABINETS FOR TRANSPARENT FINISH: GRADE: PREMIUM AWI TYPE OF CABINET CONSTRUCTION: FLUSH OVERLAY
- VENEER MATCHING: BALANCE MATCHED
- SEMIEXPOSED SURFACES CABINET INTERIORS: BLACK MELAMINE WITH DARK VENEERS, WHITE MELAMINE FOR LIGHT VENEERS (CONFIRM WITH ARCHITECT) SHELVING AND SUPPORTS: HIGH PRESSURE LAMINATE TO MATCH MELAMINE SUPPORTED
- ON STAINLESS STL. PINS
- AWI TYPE OF CABINET CONSTRUCTION: FLUSH OVERLAY, UNLESS NOTED OTHERWISE ON LAMINATE CLADDING:
- ELEVATOR CABS: FIRE RATED LAMINATE WALL PANELS AND WAINSCOTING: HIGH-WEAR LAMINATE b. HORIZONTAL SURFACES: HGS UNLESS NOTED BELOW RECEPTION COUNTERS AND TRANSACTION TOPS: HIGH-WEAR LAMINATE
- POSTFORMED SURFACES: HGP EDGES: HGS CABINET INTERIORS: BLACK MELAMINE WITH DARK COLOR LAMINATES, WHITE MELAMINE WITH LIGHT COLOR LAMINATES (CONFIRM WITH ARCHITECT)
- H. FLUSH WOOD PANELING FOR TRANSPARENT FINISH:

SHOP FINISHING OF WOODWORK

- VENEER MATCHING: SLIP AND BALANCE VENEER SPECIES AND CUT: PER DRAWINGS WITH VENEER ON ALL FACES AND PANEL
- PANEL MATCHING: SEQUENCE MATCHED UNIFORM SIZE SETS WITHIN EACH AREA
- APPLY TWO COATS TO BACK OF PANELING. APPLY A VINYL WASH COAT TO WOODWORK MADE FROM CLOSED-GRAIN WOOD BEFORE STAINING AND FINISHING. OFF EXCESS. TINT FILLER TO MATCH STAINED WOOD.

# 064023 INTERIOR ARCHITECTURAL WOODWORK (CONT.)

- DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETED, HVAC IS OPERATING, AND WOODWORK IS CONDITIONED TO PREVAILING CONDITIONS OF SPACE WHERE INSTALLED INSTALL WOODWORK LEVEL AND PLUMB AND SHIM AS REQUIRED WITH CONCEALED
- SHIMS TO TOLERANCE OF 1/8"/96" AND TO COMPLY WITH REFERENCED QUALITY STANDARD FOR GRADE SPECIFIED. SCRIBE AND CUT WOODWORK TO FIT ADJOINING WORK, SEAL CUT SURFACES, AND
- REPAIR DAMAGED FINISH AT CUTS. INSTALL TRIM WITH MINIMUM NUMBER OF JOINTS POSSIBLE USING FULL-LENGTH PIECES
- TO GREATEST EXTENT POSSIBLE. STAGGER JOINTS IN ADJACENT AND RELATED
- ANCHOR PANELING WITH CONCEALED PANEL-HANGER CLIPS AND BY BLIND NAILING ON BACK-UP STRIPS, SPLINE-CONNECTION STRIPS, AND SIMILAR ASSOCIATED TRIM AND

#### - END DIVISION 6 -

#### **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

BUILDING ENVELOPE MEETING WITH ALL DIVISION 7 SUBCONTRACTORS, THE ARCHITECT, AND OWNER SHALL TAKE PLACE ONCE ALL SUBCONTRACTORS HAVE BEEN SELECTED TO ENSURE ALL PRODUCTS ARE COMPATABLE AND TO ELIMINATE ANY GAP IN SCOPE.

071326 SELF-ADHERING SHEET WATERPROOFING A. <u>SUBMITTALS:</u> PRODUCT DATA AND PRODUCT TEST REPORTS

ICENSED WATERPROOFING MANUFACTURER.

- B. QUALITY ASSURANCE: MANUFACTURER QUALIFICATIONS: AUTHORIZED, APPROVED, OR
- WATERPROOFING MATERIALS: BASIS OF DESIGN CCW MIRADRI 860/861 AS MANUFACTURED BY CARLISLE COATINGS & WATERPROOFING OR APPROVED EQUAL. TO BE USED WITH MIRADRAIN DRAINAGE SYSTEM AS DETAILED BY CARLISLE DETAIL 860-2D. THIS SYSTEM SHALL BE USED ALONG THE PLAN NORTH ELEVATION WHERE FINISH GRADE IS ABOVE FINISH FLOOR. SEE CONSTRUCTION DOCUMENTS FOR MORE DETAIL.
- RUBBERIZED ASPHALT SHEET: 60-mil (1.5 mm) THICK. SELF-ADHERING SHEET CONSISTING OF 56 mils (1.4 mm) OF RUBBERIZED ASPHALT LAMINATED TO A 4-mil (0.10 mm) THICK POLYETHYLENE FILM WITH RELEASE LINER ON ADHESIVE SIDE. ACCESSORY PRODUCTS: BASIS OF DESIGN: CCW PRODUCT LINE TO INCLUDE: SURFACE

PRIMER, MASTIC AND SEALANTS, SHEET FLASHING, LIQUID MEMBRANE, SUBSTRATE

- RECOMMENDED BY WATERPROOFING MANUFACTURER. PROTECTION COURSE: BASIS OF DESIGN CCW-PROTECTION BOARD 4. PERIMETER DRAINAGE SYSTEM: BASIS OF DESIGN - CCW MIRADRAIN HC.
- D. <u>INSTALLATION:</u>
   1. PROVIDE CLEAN, DUST-FREE, AND DRY SUBSTRATES FOR WATERPROOFING REMOVE FINS, RIDGES, MORTAR, AND OTHER PROJECTIONS AND FILL HONEYCOMB,

PATCHING MEMBRANE, ADHESIVES, TAPE, AND METAL TERMINATION BARS

- AGGREGATE POCKETS, HOLES, AND VOIDS. PREPARE, FILL, PRIME, AND TREAT JOINTS AND CRACKS IN SUBSTRATES BRIDGE AND COVER ISOLATION AND EXPANSION JOINTS WITH OVERLAPPING SHEET STRAPS. INVERT AND LOOSELY LAY FIRST SHEET STRIP OVER CENTER OF JOINT. FIRMLY
- ADHERE SECOND STRIP TO FIRST AND OVERLAP TO SUBSTRATE. PREPARE, PRIME, AND TREAT INSIDE AND OUTSIDE CORNERS, TERMINATION, PROTRUSIONS, AND PENETRATIONS THROUGH WATERPROOFING ACCORDING TO ASTM D

APPLY PRIMER TO SUBSTRATES AT REQUIRED RATE, ALLOW TO DRY, AND INSTALL SELF-

ADHERING SHEETS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND ASTM D 6135

INSTALL PROTECTION COURSE OVER WATERPROOFING AND SECURE DRAINAGE PANELS

OVER PROTECTION COURSE WITHOUT PENETRATING WATERPROOFING. LAP EDGES AND

MAINTAINING UNIFORM MINIMUM 21/2" LAP WIDTHS AND END LAPS. OVERLAP AND SEAL SEAMS AND STAGGER END LAPS. REPAIR ANY TEARS AND VOIDS AND SLIT AND FLATTEN FISHMOUTHS AND BLISTERS. PATCH WITH SHEETS EXTENDING 6" BEYOND REPAIRED AREAS IN ALL DIRECTIONS.

# PROTECT WATERPROOFING SYSTEM FROM DAMAGE DURING CONSTRUCTION.

- A. <u>SUBMITTALS:</u> PRODUCT DATA AND PRODUCT TEST REPORTS
- QUALITY ASSURANCE: INSTALLER QUALIFICATIONS: AUTHORIZED, APPROVED, OR LICENSED BY MANUFACTURER.
- PRODUCTS: BASIS OF DESIGN: "FIRE RESIST BARRITECH VP" BY CARLISLE COATINGS AND WATERPROOFING OR APPROVED EQUAL a. FLAME SPREAD: <25, ASTM E 84
- VAPOR PERMEANCE: NOT LESS THAN 10 PERMS, ASTM E-96, METHOD B AIR PERMEANCE: <0.02 I/S\*M\*M AT 75 Pa FASTENER SEALABILITY: NO WATER LEAKING THROUGH NAIL PENETRATIONS AFTER 24 HOURS, ASTM D 1970

WATER RESISTANCE: 55 cm COL. OF WATER FOR 5 HOURS, NO LEAKING OR WET

- FIRE PROPAGATION: MEETS REQUIREMENTS OF NFPA 285 IN APPROVED TESTED WALL ASSEMBLIES, REF SHEET A0.05 FOR EXTERIOR WALL ASSEMBLY INFORMATION. ACCESSORIES: PROVIDE THE FOLLOWING PRODUCT ACCESSORIES OR APPROVED EQUALS FROM SAME MANUFACTURER AS AIR BARRIER MEMBRANE.
- a. DETAIL FLASHING: FOIL FACED-BUTYL OR FOIL-FACED RUBBERIZED ASPHALT FLASHING MIN. 30 MILS THICKNESS. APPROVIED WITH AIR BARRIER MEMBRANE IN NFPA 285 TESTED WALL ASSEMBLIES.
- CONTACT ADHESIVE: CCW-702-BASED DETAIL MASTIC: SURE-SEAL LAP SEALANT TRANSITION MEMBRANE: CCW SURE-SEAL PRESSURE SENSITIVE ELASTOFORM
- TRANSITION MEMBRANE PRIMER: SURE-SEAL LOW VOC EPDM PRIMER REINFORCING FABRIC: DCH REINFORCING FABRIC GLASS MAT: LIQUIFIBER-W FILL COMPOUND: 2-PART, NON-SAG POLYURETHANE SEALANT, CCW-703 V OR CCW-201

<u>INSTALLATION:</u> AIR BARRIERS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S

#### INSTALLATION INSTRUCTIONS, THE APPLICABLE ICC-ES EVALUATION REPORT AND THE APPLICABLE CODE.

**FNDS OF GEOTEXTILE** 

072726 FLUID-APPLIED MEMBRANE AIR BARRIERS

- 072100 THERMAL INSULATION
- A. <u>SUBMITTALS:</u> PRODUCT DATA FOR EACH TYPE OF INSULATION SPECIFIED

BELOW GRADE.

- FLAME SPREAD INDEX: 25 OR LESS SMOKE DEVELOPED INDEX: 50 OR LESS IN EXPOSED AREAS AND PLENUMS; 450 OR LESS
- EXTRUDED POLYSTYRENE RIGID (XPS) BOARD INSULATION: LOCATIONS: TO BE USED BEHIND ADHERED STONE MASONRY WALL ASSEMBLY AND
- BASIS OF DESIGN PRODUCT: OWENS CORNING "FOAMULAR" 250 XPS INSULATION OR CLASSIFICATION: ASTM C 578, TYPE IV FIRE PROPAGATION: MEETS NFPA 285 IN APPROVED WALL ASSEMBLIES
- R-VALUE: MIN. R7.5 AT WALLS, MIN. R10 AT BUILDING FOUNDATION, AS INDICATED IN CONSTRUCTION DOCUMENTS a. LOCATION: TO BE USED IN METAL COMPOSITE PANEL WALL ASSEMBLY

WATER ABSORPTION <=0.3% PER ASTM C272

PRODUCT: DOW "THERMAX" (CI) EXTERIOR INSULATION OR APPROVED EQUAL CLASSIFICATION:ASTM C1289, TYPE 1, CLASS 2 FIRE PROPAGATION: MEETS NFPA 285 IN APPROVED WALL ASSEMBLIES R-VALUE: MIN. R7.5, AS INDICATED IN CONSTRUCTION DOCUMENTS.

GLASS FIBER BLANKET INSULATION: MEETS NFPA 285 IN APPROVED ASSEMBLIES

a. TYPE I, UNFACED a. PROVIDE 6LB/CF MINERAL ROCK WOOL AT ALL HOLLOW METAL DOOR FRAMES. PROVIDE 4 LB/CF MINERAL ROCK WOOL AT WINDOW HEAD LOCATIONS IN BRICK CAVITY WALL AND CONT. AT EA. FLOOR LINE WHERE STUD FRAMING IS CONTINUOUS

a. INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED OR REQUIRED TO

#### PRODUCE R-VALUES WHERE INDICATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.

PANEL SYSTEM ASSEMBLY, FINISH SAMPLES.

ESR-3435

PAST FLOOR SLAB.

074213.23 METAL COMPOSITE MATERIAL WALL PANELS PRODUCT DATA, TEST DATA, WARRANTIES SHOP DRAWINGS SHOWING ALL PANEL JOINTS LAYOUTS, AND ATTACHMENT DETAILS.

INSTALL PER MANUFACTURER'S RECOMMENDATION AND AS FOLLOWS:

- INSTALLER QUALIFICATIONS: AUTHORIZED, APPROVED, OR LICENSED BY MANUFACTURER. MANUFACTURER SHALL HAVE MINIMUM 15 YEARS IN THE MANUFACTURING OF THIS PRODUCTS:
  1. COMPOSITE WALL PANELS (REFER TO ELEVATIONS FOR LOCATIONS AND COLOR):
  - a. BASIS OF DESIGN PRODUCT: ALUCOBOND PLUS MANUFACTURED BY 3A COMPOSITES USA OR APPROVED EQUAL. THICKNESS: 4MM (0.157")
- ALUMINUM FACE SHEETS: THICKNESS (0.020"), ALLOY (3000 SERIES) CORE MATERIAL: FIRE RESISTANT FIRE PERFORMANCE: ASTM E84 CLASS A FIRE PROPAGATION: MEETS NFPA 285 IN APPROVED ASSEMBLIES, REFER TO ICC-ES

RELATED FLASHING ADAPTERS AND MASKING FOR COMPLETE INSTALLATION.

ALUMINUM-FACED COMPOSITE PANELS WITH MOUNTING SYSTEM. PANEL MOUNTING

SYSTEM INCLUDING ANCHORAGES, FURRING, FASTENERS, GASKETS AND SEALANTS,

SYSTEM TYPE: ROUTE AND RETURN DRY FINISH: COIL COATED FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT: COMPLYING WITH AAMA 2604. APPLIED BY MANUFACTURER COLOR: AS INDICATED IN DRAWINGS.

## 074213.23 METAL COMPOSITE MATERIAL WALL PANELS (CONT.)

- 2. EXPOSED FASTENER LAPPED SEAM PANEL
- MATERIAL: GALVANIZED STEEL PANEL THICKNESS: 22 GA
- PROFILE: VULCRAFT 1.5B OR EQUAL FINISH: FACTORY-APPLIED, OVEN BAKED FINISH BASED ON KYNAR 500 POLYVINYLIDENE FLOURIDE RESIN. FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE
- RESIN BY WEIGHT; COMPLYING WITH AAMA 2605. e. COLOR: AS INDICATED IN DRAWINGS

#### PROVIDE COMPONENTS REQUIRED FOR A COMPLETE WALL PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIA, MULLIONS, CORNER UNITS, CLIPS, SEAM COVERS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS.

- FLASHING AND TRIM: FORMED FROM 0.0179" (0.045mm) THICK, ZINC-COATED (GALVANIZED) STEEL SHEET OR ALUMINUM-ZINC ALLOY-COATED STEEL SHEET. PROVIDE FLASHING AND TRIM AS REQUIRED TO SEAL AGAINST WEATHER AND TO PROVIDE FINISHED
- APPEARANCE. FINISH FLASHING AND TRIM WITH SAME FINISH SYSTEM AS ADJACENT METAL PANELS BITUMINOUS COATING: COLD-APPLIED ASPHALT MASTIC, SSPC-PAINT 12, COMPOUNDED
- FOR 15-MIL (0.4mm) DRY FILM THICKNESS PER COAT. SELF-ADHERED FLASHING WHICH IS COMPATIBLE WITH AIR BARRIER SYSTEM. WEEP HOLE COVERS TO PREVENT INSECTS, FINISH TO MATCH PANEL.
- E. INSTALLATION: ANCHOR PANELS SECURELY IN PLACE WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT. INSTALL WITH CONCEALED FASTENERS UNLESS OTHERWISE INDICATED USING STAINLESS STEEL FOR SURFACES EXPOSED TO THE EXTERIOR AND
- GALVANIZED FOR SURFACES EXPOSED TO THE INTERIOR. INSTALL MANUFACTURER RECOMMENDED GASKETS, JOINT FILLERS, AND SEALANTS WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF ASSEMBLIES. USE BITUMINOUS COATING OR SELF ADHERED FLASHING TO SEPARATE DISSIMILAR METALS AND WHERE ALUMINUM PANELS WILL CONTACT WOOD, FERROUS METAL OR
- CONCRETE. CONFIRM COMPATIBILITY OF PRODUCT TO BE UTILIZED WITH ADJACENT PROVIDE WEEPS IN METAL WALL PANELS AS REQUIRED TO PREVENT COLLECTION OF WATER BEHIND PANELS.

#### 075423 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

mm) THICK: COLOR: WHITE.

PRODUCT DATA FOR ALL MATERIALS, AND SHOP DRAWINGS OF TAPERED INSULATION

WARRANTY FROM THE ROOFING SUBCONTRACTOR.

- PROVIDE (30) YEAR MANUFACTURER'S STANDARD WRITTEN WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY MANUFACTURER AGREEING TO REPAIR LEAKS DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP AND A (3) YEAR LABOR AND MATERIAL
- 2. <u>EXTERIOR FIRE TEST EXPOSURE</u>: ASTM E 108, CLASS B. TPO SHEET: ASTM D 6878, TYPE II, SCRIM OR FABRIC INTERNALLY REINFORCED 80 MILS (1.5
- a. BASIS OF DESIGN PRODUCT: FIRESTONE ULTRAPLY TPO OR APPROVED EQUAL. AUXILIARY MATERIALS: RECOMMENDED BY ROOFING SYSTEM MANUFACTURER FOR INTENDED USE AND AS FOLLOWS: SHEET FLASHING: SAME THICKNESS AND COLOR AS SHEET MEMBRANE. BONDING ADHESIVE: TYPE AS RECOMMENDED BY MANUFACTURER

MISCELLANEOUS ACCESSORIES: PROVIDE POURABLE SEALERS, PREFORMED CONE

FLASHINGS, T-JOINT COVERS, LAP SEALANTS, TERMINATION REGLETS, AND OTHER

AND VENT SHEET FLASHINGS, PREFORMED INSIDE AND OUTSIDE CORNER SHEET

- ACCESSORIES.
- MINIMUM R-VALUE: AS INDICATED IN DRAWINGS UTILIZE MIN. (2) LAYERS TO ACHIEVE R-VALUE, STAGGER JOINTS. FABRICATE TAPERED INSULATION WITH SLOPE OF 1/4"/FOOT UNLESS OTHERWISE

PROVIDE PREFORMED SADDLES, CRICKETS, TAPERED EDGE STRIOS, AND OTHER

POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II

#### INSULATION SHAPES WHERE INDICTED FOR SLOPING TO DRAIN. FABRICATE TO SLOPES 4. COVER BOARD: AS INDICATED IN DRAWINGS.

- MECHANICALLY FASTEN EACH LAYER OF INSULATION TO DECK. INSTALL TPO SHEET ACCORDING TO ROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS UTILIZING FIRESTONE'S "INVISIWELD" SYSTEM ATTACHMENT METHOD OR a. MEMBRANE SHALL BE UNROLLED ON THE AREA TO BE COVERED AND FASTENED ALONG THE LEADING EDGE THROUGH THE MEMBRANE, INSULATION, AND INTO THE
- AND GRADE HAVE BEEN IDENTIFIED AND THAT THE PROPER FASTENER AND PLATE ARE INSTALLED AT THE NECESSARY SPACING TO ACHIEVE THE DESIGN AS SPECIFIED. FOR ROW SPACING IN EXCESS OF 76" SUBMIT VERIFICATION FROM MANUFACTURER THAT THE DECK AND MEMBRANE ASSEMBLY IS IN COMPLIANCE WITH FM I-90. PERIMETER/CORNER ENHANCEMENT: PERIMETER/CORNER FASTENING ENHANCEMENT SHALL BE INSTALLED AT ALL EXTERIOR ROOF PERIMETERS THAT

DECK. ADJACENT ROLLS OF MEMBRANE SHALL OVERLAP THE FASTENED EDGE OF

THE INSTALLED MEMBRANE. FASTEN FIELD SHEETS WITH APPROVED FASTENERS

ARE NOT BORDERED BY A PARAPET WALL OR AN ADJOINING BUILDING A MINIMUM

OF 24" HIGHER THAN THE ROOF LEVEL AND IS REQUIRED AT ANY ADJOING ROOF

LEVEL 24" OR GREATER ABOVE THE MAIN DECK LEVEL. PROVIDE FASTENERS AT

SEAM HAS COOLED COMPLETELY TO VERIFY SEAM CONSISTENCY. SEAL EXPOSED

FOR FM I-90 DESIGN FOR THE PROJECT DECK. ENSURE THAT THE DECK MATERIALS

SPACING REQUIRED BY MANUFACTURER TO COMPLY WITH WIND UPLIFT REQUIREMENTS. LAP SPLICE: MEMBRANE SHALL BE OVERLAPPED AND HOT-AIR WELDED WITHOUT ANY CONTAMINANTS (ADHESIVE, DIRT, DEBRIS, ETC.) IN THE SEAM. THE ENTIRE LAP EDGE SHALL BE PROBED WITH AN APPROVED SEAM PROBING TOOL AFTER THE

#### INSTALL SHEET FLASHINGS AND PREFORMED FLASHING ACCESSORIES AND ADHERE TO SUBSTRATES. PROTECT ROOFING FROM DAMAGE AND WEAR DURING REMAINDER OF CONSTRUCTION PERIOD.

EDGES OF SHEET TERMINATIONS.

FROM DATE OF SUBSTANTIAL COMPLETION.

- 074113.16 METAL ROOF PANELS SUBMITTALS: PRODUCT DATA, SHOP DRAWINGS, AND COLOR SAMPLES PERFORMANCE STANDARD: PROVIDE ROOF ASSEMBLIES THAT COMPLY WITH UL 580 FOR
- CLASS 90 WIND-UPLIFT RESISTANCE. WARRANTIES: PROVIDE MANUFACTURER'S STANDARD WRITTEN WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY MANUFACTURER AGREEING TO PROMPTLY REPAIR OR REPLACE METAL ROOF PANELS THAT FAIL TO REMAIN WATERTIGHT WITHIN 10 YEARS
- ROOF PANEL TYPE: STANDING SEAM METALLIC COATED STEEL ROOF PANELS: FABRICATED FROM GALVANIZED
- COATING DESIGNATION, GRADE 40 (CLASS AZM150 COATING DESIGNATION GRADE a. METAL THICKNESS: [0.0159" (0.40mm)] [0.0209" (0.55mm)] [0.0269" (0.70mm)] [0.0329" (0.85mm)] [0.0428" (1.10mm)] FINISH: MANUFACTURER'S STANDARD FLUOROPOLYMER 2-COAT SYSTEM WITH

FLUORIDE RESIN BY WEIGHT; COMPLYING WITH AAMA 2604.

STRUCTURAL STEEL SHEET ASTM A 653/A 653M, G90 (Z275), OR ALUMINUM-ZINC

TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE

3. ALUMINUM ROOF PANELS: FABRICATED FROM ALUMINUM SHEET, ASTM B 209 (ASTM

PROVIDE COMPONENTS REQUIRED FOR A COMPLETE ROOF PANEL ASSEMBLY

INCLUDING TRIM, FASCIAE, CLIPS, SEAM COVERS, FLASHINGS, SEALANTS, GASKETS,

ALLOY-COATED STRUCTURAL STEEL SHEET. ASTM A 792/A 792M, CLASS AZ50

- B 209M) FOR ALCLAD ALLOY 3003, 3004, OR 3105. a. METAL THICKNESS: [0.032" (0.8mm)] [0.040" (1.0mm) b. FINISH: MANUFACTURER'S STANDARD FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT; COMPLYING WITH AAMA 2604.
- FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. 2. FLASHING AND TRIM: FORMED FROM 0.0179" (0.045mm) THICK, ZINC-COATED (GALVANIZED) STEEL SHEET OR ALUMINUM-ZINC ALLOY-COATED STEEL SHEET PROVIDE FLASHING AND TRIM AS REQUIRED TO SEAL AGAINST WEATHER AND TO PROVIDE FINISHED APPEARANCE. FINISH FLASHING AND TRIM WITH SAME FINISH

SYSTEM AS ADJACENT METAL ROOF PANELS.

ORGANIC FELT ASTM D 226, TYPE II (NO. 30) SLIP SHEET: RESIN-SIZED BUILDING PAPER, 5lb/100 sq. ft. (2.4 kg/sq. m) THERMAL SPACERS: WHERE PANELS ATTACH DIRECTLY TO PURLINS, PROVIDE THERMAL SPACERS RECOMMENDED BY PANEL MANUFACTURER. BITUMINOUS COATING: COLD-APPLIED ASPHALT MASTIC, SSPC-PAINT 12, COMPOUNDED FOR 15-MIL (O.4mm) DRY FILM THICKNESS PER COAT.

3. UNDERLAYMENT: SELF-ADHERING POLYETHYLENE-FACED, POLYMER-MODIFIED,

BITUMINOUS SHEET ASTM D 1970; 40 MILS (1mm) THICK OR ASPHALT SATURATED

UNLESS OTHERWISE RECOMMENDED BY METAL ROOF PANEL MANUFACTURER AND APPLY SLIP SHEET OVER UNDERLAYMENT. ANCHOR PANELS SECURELY IN PLACE WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT. INSTALL WITH CONCEALED FASTENERS UNLESS OTHERWISE INDICATED USING STAINLESS STEEL FOR SURFACES EXPOSED TO THE

EXTERIOR AND GALVANIZED FOR SURFACES EXPOSED TO THE INTERIOR.

INSTALL UNDERLAYMENT ON ROOF SHEATHING UNDER METAL ROOF PANELS,

#### 3. INSTALL MANUFACTURER RECOMMENDED GASKETS, JOINT FILLERS, AND SEALANTS WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF ASSEMBLIES. USE BITUMINOUS COATING TO SEPARATE DISSIMILAR METALS AND WHERE ALUMINUM PANELS WILL CONTACT WOOD, FERROUS METAL OR CONCRETE

# PARAGON STAR

# PARAGON STAR

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19

Issued For: SHELL - CD SET

REVISIONS \_\_\_\_

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REGISTRATION

PROJECT TEAM

ARCHITECTURE

FINKLE+WILLIAMS

HOERR SCHAUDT /

BSE STRUCTURAL

**ENGINEERS** 

**ENGINEERS** 

HENDERSON

ARCHITECT

STRUCTURAL

ELECTRICAL

FOUNDATIONS BSE STRUCTURAL **ENGINEERS** 

PLUMBING HENDERSON **ENGINEERS** HENDERSON MECHANICAL

**ENGINEERS** FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

SHEET TITLE

**PROJECT** 

7007 College Blvd, Suite 415

Overland Park, Kansas 66211

913+498-1550

ARCHITECTURE

SHEET NUMBER

- END DIVISION 5 -

- INTERIOR PARTITION FRAMING: STANDARD, STUD, OR NO. 3 GRADE MISCELLANEOUS LUMBER FOR NAILERS, BLOCKING, AND SIMILAR CONSTRUCTION: STUD,
- OR NO. 3 GRADE PANEL PRODUCTS: DOC PS 2. PROVIDE PLYWOOD COMPLYING WITH DOC PS 1 WHERE PLYWOOD IS INDICATED AND AS FOLLOWS:
- PLYWOOD: EXTERIOR OR EXPOSURE 1, STRUCTURAL I, FIRE RETARDANT-TREATED ORIENTED STRAND BOARD: EXPOSURE 1, STRUCTURAL I
- GLASS-MAT GYPSUM: ASTM C 1177/C 1177M EXTRUDED POLYSTYRENE FOAM: ASTM C 578, TYPE IV WITH T&G OR SHIPLAP LONG
- PLYWOOD: EXTERIOR OR EXPOSURE 1, STRUCTURAL I ORIENTED STRAND BOARD: EXPOSURE 1, STRUCTURAL I
- WOOD MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND
- WOOD FRAMING LESS THAN 18" ABOVE GRADE WOOD FLOOR PLATES INSTALLED OVER CONCRETE SLABS DIRECTLY IN CONTACT WITH
- AWPA C20 FOR LUMBER AND AWPA C27 FOR PLYWOOD LABELED BY TESTING AND INSPECTING AGENCY. USE INTERIOR TYPE A HIGH TEMPERATURE (HT). TREAT INDICATED ITEMS AND THE
- METAL FRAMING ANCHORS: HOT-DIP GALVANIZED STEEL OF STRUCTURAL CAPACITY, TYPE. AND SIZE INDICATED.
- SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES WITH MEMBERS PLUMB. TRUE
  - BY APPLICABLE CODES AND AFPA WCD 1 T11. CONSTRUCT DOUBLE JOIST HEADERS AT FLOOR AND CEILING OPENINGS AND UNDER
  - WHERE WALL HUNG ITEMS WILL REQUIRE A SUBSTRATE FOR FASTENING OR SUPPORT.
- INCLUDING DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS. B. <u>QUALITY ASSURANCE</u>: ARCHITECTURAL WOODWORK INSTITUTE'S "ARCHITECTURAL
  - NO UREA FORMALDEHYDE. SOFT PLYWOOD: DOC PS 1
- SOLID SURFACE MATERIAL: HOMOGENOUS SOLID SHEETS OF FILLED PLASTIC RESIN **HARDWARE**: COMPLY WITH BHMA A156
- DOOR AND DRAWER LOCKS: BHMA A156.11 GROMMETS: MOLDED PLASTIC WITH CAPS; FURNISH IN COLOR AND LOCATIONS AS
- BACKOUT AND GROOVE BACKS OF FLAT MEMBERS, KERF BACKS OF OTHER WIDE, FLAT
- VENEER SPECIES AND CUT: PER DRAWINGS, WITH VENEER ON ALL EXPOSED AND
- a. VERTICAL SURFACES: HGS UNLESS NOTED BELOW

LAB, EXAM RM. AND PROCEDURE COUNTERS: CHEMICAL RESISTANT LAMINATE

- SHELVING AND SUPPORTS: HIGH PRESSURE LAMINATE TO MATCH MELAMINE SUPPORTED ON STAINLESS STL. PINS
- PANEL CONSTRUCTION: FACTORY VENEERED PANEL FACES (NO SHOP VENEERED FACES

FINISH ALL WOODWORK IN THE SHOP TO SAME GRADE AS ITEMS BEING FINISHED

APPLY ONE COAT OF SEALER OR PRIMER TO CONCEALED SURFACES OF WOODWORK.

AFTER STAINING, IF ANY, APPLY PASTE WOOD FILLER TO OPEN-GRAIN WOODS AND WIPE FINISH WITH AWI SYSTEM [TR-0 SYNTHETIC PENETRATING OIL] [TR-4, CONVERSION VARNISH] [ TR-5, CATALYZED VINYL LACQUER] [TR-6, CATALYZED POLYURETHANE

## <u>DIVISION 7 - THERMAL AND MOISTURE PROTECTION (CONT.</u>

#### 076200 SHEET METAL FLASHING AND TRIM

- SUBMITTALS: PRODUCT DATA, COLOR SAMPLES, AND SHOP DRAWINGS INDICATING MATERIAL, DIMENSIONS, JOINT LOCATIONS, EDGE CONDITIONS, AND METHODS OF ANCHORAGE.
- FABRICATION STANDARD: COMPLY WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL". CONFORM TO DIMENSIONS AND PROFILES SHOWN UNLESS MORE STRINGENT REQUIREMENTS
- COORDINATION: COORDINATE INSTALLATION OF SHEET METAL FLASHING AND TRIM WITH INTERFACING AND ADJOINING CONSTRUCTION TO PROVIDE A LEAKPROOF, SECURE, AND NONCORROSIVE INSTALLATION.
- COPPER: ASTM B 370, TEMPER H00 OR H01, COLD ROLLED, NOT LESS THAN 16 OZ/S.F. (0.55 ALUMINUM SHEET: ASTM B 209 (ASTM B 209 M) ALLOY 3003, 3004, 3105, OR 5005, TEMPER
- SUITABLE FOR FORMING AND STRUCTURAL PERFORMANCE REQUIRED, BUT NOT LESS THAN H14: NOT LESS THAN 0.032 INCH (O.8 mm) THICK, FINISHED WITH MANUFACTURER'S FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70%
- POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT; COMPLYING WITH AAMA 2604. 3. STAINLESS STEEL SHEET: ASTM A 240/A 240M, TYPE 304, WITH NO. 2D FINISH; NOT LESS THAN 0.0156 INCH (0.4 mm) THICK.
- FLASHING AND TRIM: FABRICATE FLASHING AND TRIM TO COMPLY WITH RECOMMENDATIONS OF SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" THAT APPLY TO THE DESIGN, DIMENSIONS, METAL, AND OTHER CHARACTERISTICS OF THE ITEM INDICATED OR DETAILED ON THE CONSTRUCTION DRAWINGS. FABRICATE WITH CONCEALED FASTENERS EXCEPT WHERE EXPOSED FASTENERS ARE PERMITTED.

- SOLDER FOR COPPER: ASTM B 32, GRADE Sn50 SOLDER FOR STAINLESS STEEL: ASTM B 32, GRADE Sn60, WITH ACID FLUX OF TYPE RECOMMENDED BY STAINLESS STEEL MFR.
- 3. BUTYL SEALANT: ASTM C 1311, SOLVENT-RELEASE TYPE, FOR EXPANSION JOINTS WITH LIMITED MOVEMENT. 4. ASPHALT MASTIC: SSPC-PAINT 12, ASBESTOS FREE, SOLVENT TYPE.
- ROOFING CEMENT: ASTM D 4586, TYPE I, ASBESTOS FREE, ASPHALT BASED 6. SLIP SHEET: RESIN-SIZED PAPER, MINIMUM 3 LB/100 S.F. (0.16 kg/sq. m)
- INSTALLATION:
  1. COMPLY WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." ALLOW FOR THERMAL EXPANSION; SET TRUE TO LINE AND LEVEL. INSTALL WORK WITH LAPS, JOINTS AND SEAMS PERMANENTLY WATERTIGHT AND WEATHERPROOF; CONCEAL FASTENERS WHERE POSSIBLE.
- SECURE FLASHINGS AT ROOF EDGES ACCORDING TO FMG LOSS PREVENTION DATA SHEET 1-49 FOR SPECIFIED WIND ZONE. 3. SEALED JOINTS: FORM NON-EXPANSION, BUT MOVABLE, JOINTS IN METAL TO
- ACCOMMODATE ELASTOMERIC SEALANT TO COMPLY WITY SMACNA STANDARDS USING BAYONET TYPE OR INTERLOCKING HOOKED SEAMS. FABRICATE NONMOVING SEAMS IN SHEET METAL WITH FLAT-LOCK SEAMS. FOR METAL OTHER THAN ALUMINUM, TIN EDGES TO BE SEAMED, FORM SEAMS AND SOLDER. FOR
- ALUMINUM, FORM SEAMS AND SEAL WITH EPOXY SEAM SEALER. RIVET JOINTS FOR ADDITIONAL STRENGTH. SEPARATION: SEPARATE NON-COMPATIBLE METALS OR CORROSIVE SUBSTRATES WITH A COATING OF ASPHALT MASTIC OR OTHER PERMANENT SEPARATION

#### 077200 ROOF ACCESSORIES

A. <u>SUBMITTALS</u>: PRODUCT DATA, INSTALLATION DETAILS, WARRANTIES

#### ROOF ACCESSORIES:

- ROOF CURBS AND EQUIPMENT SUPPORTS: SEE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION. INCLUDE MANUFACTURER'S STANDARD RIGID OR SEMIRIGID INSULATION AND PRESERVATIVE-TREATED WOOD NAILERS AT TOPS. PROVIDE UNITS WITH CANT STRIPS AND BASE PROFILE COORDINATED WITH ROOF INSULATION THICKNESS AND ROOF
- DECK SLOPE. ROOF HATCHES: BASIS OF DESIGN: BILCO E-50TB. THERMALLY BROKEN. INSULATED SINGLE-LEAF, 36" W X 36" D OPENING. FABRICATE FROM METALLIC-COATED STEEL WITH INTEGRAL CURB OF HEIGHT NECESSARY TO EXTEND 8" MIN. ABOVE ROOF SURFACE, DOUBLE WALL CONSTRUCTION WITH 11/2" INSULATION, FORMED CANTS AND CAP FLASHING, WITH WELDED MECHANICAL CORNER JOINTS. PROVIDE DOUBLE-WALL COVER (LID) CONSTRUCTION WITH 1" INSULATION CORE. PROVIDE GASKETING AND CORROSION RESISTANT HARDWARE INCLUDING PINTLE HINGES, HOLD-OPEN DEVICES, INTERIOR PADLOCK HASPS, AND BOTH INTERIOR AND EXTERIOR LATCH HANDLES.
- <u>INSTALLATION</u>: INSTALL ROOF ACCESSORY ITEMS ACCORDING TO CONSTRUCTION DETAILS OF NRCA'S "ROOFING AND WATERPROOFING MANUAL". COORDINATE WITH INSTALLATION OF ROOF DECK, VAPOR BARRIERS, ROOF INSULATION, ROOFING, AND FLASHING TO ENSURE COMBINED ELEMENTS ARE SECURE, WATERPROOF, AND WEATHERTIGHT.

## 078413 PENETRATION FIRESTOPPING

- SUBMITTALS: PRODUCT DATA AND PRODUCT CERTIFICATES SIGNED BY MFR. CERTIFYING THAT PRODUCTS COMPLY WITH REQUIREMENTS. RATINGS: PROVIDE FIRESTOPPING SYSTEM WITH FIRE RESISTANCE RATINGS INDICATED BY EFERENCE TO UL DESIGNATIONS AS LISTED IN ITS "FIRE RESISTANCE DIRECTORY", OR TO DESIGNATION OF ANOTHER TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
- FLAME SPREAD/SMOKE DEVELOPED RATINGS: FOR EXPOSED FIRESTOPPING, PROVIDE PRODUCTS WITH FLAME SPREAD INDEXES OF LESS THAN 25 AND SMOKE-DEVELOPED INDEXES OF LESS THAN 450, AS DETERMINED ACCORDING TO ASTM E 84.
- FIRESTOP SYSTEMS: USE SYSTEMS AS DESIGNATED ON THE CONSTRUCTION DRAWINGS, OR IF NOT DESIGNATED, ANY SYSTEM THAT IS CLASSIFIED BY UL AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION FOR THE APPLICATION MAY BE USED.
- INSTALLATION: INSTALL FIRESTOPPING SYSTEMS TO COMPLY WITH REQUIREMENTS LISTED IN FESTING AGENCY'S DIRECTORY FOR INDICATED FIRE-RESISTANCE RATING. <u>IDENTIFICATION</u>: IDENTIFY THROUGH-PENETRATION FIRESTOP SYSTEMS WITH PERMANENT LABELS ATTACHED TO SURFACES ADJACENT TO FIRESTOP SYSTEMS SO THAT LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOP SYSTEMS. LABELS SHALL INCLUDE THE FOLLOWING: THE WORDS "WARNING - THROUGH PENETRATION FIRESTOP SYSTEM - DO NOT DISTURB" CLASSIFICATION/LISTING DESIGNATION OF APPLICABLE TESTING AND INSPECTING
- THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER'S NAME AND PRODUCT

# 079200 JOINT SEALANTS

- SUBMITTALS: PRODUCT DATA, COLOR SAMPLES, AND SCHEDULE OF LOCATIONS FOR EACH TYPE OF SEALANT SUBMITTED.
- SEALANT COLORS/MOCKUP: MULTIPLE SEALANT COLORS WILL BE REQUIRED TO COORDINATE WITH COLORS OF MATERIALS BEING SEALED, SHALL BE SELECTED FROM MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS, INCLUDING PREMIUM COLORS, AND SHALL BE VERIFIED FROM A 12" LONG FIELD APPLIED SAMPLE OF EACH COLOR PRIOR TO COMPLETE INSTALLATION.
- ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 deg F (4.4 deg C).
- COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS. JOINT SEALANTS
- BUILDING EXPANSION JOINTS: SINGLE COMPONENT, NEUTRAL-CURING SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES T, M, AND O, WITH THE ADDITIONAL CAPABILITY TO WITHSTAND 50% MOVEMENT IN BOTH EXTENSION AND COMPRESSION FOR EXTERIOR TRAFFIC BEARING JOINTS WHERE SLOPE PRECLUDES POURABLE SEALANT: SINGLE COMPONENT, NONSAG URETHANE SEALANT, ASTM C920, TYPE S; GRADE NS;
- EXTERIOR TRAFFIC BEARING JOINTS WHERE SLOPE PERMITS USE OF POURABLE SEALANT: SINGLE COMPONENT, POURABLE URETHANE SEALANT, ASTM C 920, TYPE S;
- GRADE P; CLASS 25; USES T, M, G, A, AND O. 4. INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS, TOILET
- ROOMS, AND AROUND PLUMBING FIXTURES: SINGLE COMPONENT, MILDEW-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES NT, G, A, AND O;
- FORMULATED WITH FUNGICIDE. INTERIOR JOINTS AROUND PERIMETERS OF DOORS AND FRAMES: LATEX SEALANT, SINGLE COMPONENT, NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC EMULSION
- SEALANT COMPLYING WITH ASTM C 834. ACOUSTICAL SEALANT FOR EXPOSED INTERIOR JOINTS: NONSAG, PAINTABLE,
- NONSTAINING, LATEX SEALANT COMPLYING WITH ASTM C 834. ACOUSTICAL SEALANT FOR CONCEALED JOINTS: NONDRYING, NONHARDENING, NONSKINNING, NONSTAINING, GUNNABLE, SYNTHETIC-RUBBER SELANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AIRBORNE

JOINT SEALANT BACKING: CYLINDRICAL CLOSED CELL PVC ROD COMPLYING WITH ASTM C330; SIZE 30% TO 50% LARGER THAN JOINT WIDTH. ALL OPEN CELL BACKINGS SUCH AS "DENVER FOAM" ARE PROHIBITED.

- BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR. FOR PREVENTING SEALANT FROM ADHERING TO RIGID. INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
- <u>INSTALLATION</u>: COMPLY WITH ASTM C 1193; ASTM C 919 FOR ACOUSTICAL JOINTS: AND AS REMOVE ALL LOOSE MATERIAL, CLEAN AND PRIME JOINTS IN ACCORDANCE WITH
- MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED. INSTALL SEALANT TOOLED CONCAVE. FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED. SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION.

# - END DIVISION 7 -

## **DIVISION 8 - DOOR AND WINDOWS**

#### 081213 HOLLOW METAL FRAMES SUBMITTALS: PRODUCT DATA AND FRAME SCHEDULE INDICATING OPENING AND FRAME SIZES

CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS.

- HOT-ROLLED STEEL SHEETS: ASTM A1011/A 1011M
- COLD-ROLLED STEEL SHEETS: ASTM A 1008/A 1008M OR ASTM A 620/A 620M GALVANIZED STEEL SHEETS: ASTM A 653/A 653M, A40 OR G40 (ZF120 OR Z120) COATING
- STEEL FRAMES: FULLY WELDED, ANSI A 250.8, CONCEALED FASTENING, PREPARED FOR MORTISED AND CONCEALED HARDWARE ACCORDING TO ANSI A 250.6 AND ANSI A 115 SERIES STANDARDS AND REINFORCED TO RECEIVE SURFACE-APPLIED HARDWARE. STEEL SHEET THICKNESS FOR INTERIOR FRAMES: PER DOOR SCHEDULE
- 2. STEEL SHEET THICKNESS FOR EXTERIOR FRAMES: PER DOOR SCHEDULE SUPPORTS AND ANCHORS: MIN. .042" THICK GALVANIZED STEEL SHEET

PRIMER: MANUFACTURER'S STANDARD FACTORY APPLIED COAT OF RUST-INHIBITIVE

PRIMER COMPLYING WITH ANSI A250.10. 1. FRAMES: COMPLY WITH SDI 105 AND INSTALL FIRE-RATED FRAMES PER NFPA 80.

#### 081416 FLUSH WOOD DOORS

- SUBMITTALS: PRODUCT DATA, PREFINISHED DOOR SKIN SAMPLES, AND DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES. TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION
- DOORS: SIZES, SPECIES, AND DESIGNS AS INDICATED COMPLYING WITH WDMA I.S.1-A
- GRADE: PREMIUM VENEER MATCHING: BOOK AND RUNNING
- PAIR MATCHING AND SET MATCHING CONSTRUCTION: INTERIOR VENEER: FIVE OR SEVEN PLY, STRUCTURAL COMPOSITE LUMBER CORES INTERIOR PLASTIC LAMINATE: THREE-PLY, STRUCTURAL COMPOSITE LUMBER CORE FIRE-RATED DOORS: CORE TO PROVIDE FIRE RATING INDICATED WITH FACES AND
- GRADE TO MATCH NON-RATED DOORS. **FABRICATION AND FINISHING** FACTORY FIT DOORS TO SUIT FRAME OPENINGS TO COMPLY WITH REFERENCED
- STANDARD. COMPLY WITH NFPA 80 FOR FIRE-RESISTANCE RATED DOORS. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED.
- CUT AND TRIM OPENINGS TO COMPLY WITH REFERENCED STANDARDS. LITE KITS: [MATCHING WOOD STOPS] [STEEL STOPS]
- FACTORY FINISH DOORS FOR TRANSPARENT FINISH WITH STAIN AND MANUFACTURER'S STANDARD FINISH COMPARABLE TO AWI, SYSTEM TR-4, CONVERSION VARNISH OR AWI SYSTEM TR-6, CATALYZED POLYURETHANE.
- INSTALLATION: COMPLY WITH WDMA'S "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS" ALIGNED AND FITTED IN FRAMES WITH UNIFORM CLEARANCES AND

#### 083113 ACCESS DOORS AND FRAMES

- PRODUCTS: PRIME-PAINTED FLUSH, UNINSULATED ACCESS DOORS FOR WALLS AND CEILINGS WITH TRIMLESS FRAME AND SCREWDRIVER OPERATED LOCK FLUSH WITH FINISHED SURFACE.
- FIRE-RATED, SELF-LATCHING. AUTOMATIC CLOSING AT FIRE-RATED WALLS OR CEILINGS INSTALLATION: INSTALL FLUSH TO FINISHED DRYWALL SURFACE WITH FRAME TAPED AND SANDED FLUSH WITH WALL OR CEILING SURFACE AND FINISH TO MATCH ADJACENT SURFACE.

## 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

3. MANUFACTURER'S WARRANTY: 2 YEARS

OF CLEAR SPAN

a. COLOR: CUSTOM COLOR

1. INSTALL FIRE RATED DOORS PER NFPA 80.

- INSTALLER QUALIFICATIONS, FABRICATOR QUALIFICATIONS, SOURCE LIMITATIONS 2. PRODUCT DATA FOR EACH SYSTEM SPECIFIED, INCLUDING ACCESSORIES, SEALANTS, AND PRODUCTS TO BE SUPPLIED FOR A COMPLETE INSTALLATION.
- SAMPLES: FULL RANGE OF MANUFUCTURERS STANDARD COLOR, FINISH AND OTHER OPTIONS REQUIRED FOR SELECTION. SHOP DRAWINGS STAMPED AND SIGNED BY LICENSED ENGINEER: INCLUDING DETAILS AT
- JOINTS AND PERIMETER CONDITIONS, FLASHINGS, CONNECTION AND INTERFACE WITH WORK BY OTHERS, EXPANSION AND CONTRACTION JOINT, ANY FIELD WELDING REQUIREMENTS, HARDWARE SCHEDULE.
- CALCULATIONS STAMPED AND SIGNED BY LICENSED ENGINEER: DESIGN LOADS, SYSTEM DIMENSIONS, TOLERANCES, DETAILS AT JOINTS, PERIMETER CONDITIONS, FLASHING, CONNECTIONS TO WORK BY OTHERS, EXPANSION AND CONTRACTION JOINT LOCATIONS, AND ANY FIELD WELDING. FOR ENTRANCES, INCLUDE HARDWARE SCHEDULE.
- SAMPLE WARRANTIES MOCK-UP: ON SITE, INCLUDING HEAD, JAMB AND SILL CONDITIONS AND INTERFACE WITH
- <u>DELEGATED DESIGN:</u> DESIGN GLAZED ALUMINUM CURTAIN WALLS AND GLAZED ALUMINUM WINDOW WALLS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.
- FABRICATOR: COMPANY SPECIALIZING IN MANUFACTURING ALUMINUM GLAZING SYSTEMS WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE INSTALLER: COMPANY SPECIALIZING IN INSTALLING ALUMINUM GLAZING SYSTEMS WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE

- ALUMINUM SHEET: ASTM B 209 (ASTM B 209M), ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED. 2. ALUMINUM EXTRUSIONS: ASTM B 221 (ASTM B221M), ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED.
- <u>ALUMINUM FRAMED STOREFRONTS</u>: AT INTERIOR LOCATIONS, PROVIDE MANUFACTURER'S STANDARD NON-THERMALLY BROKEN STOREFRONT SYSTEM MATCHING THE EXTERIOR SYSTEM. AT EXTERIOR LOCATIONS, PROVIDE MANUFACTURER'S STANDARD THERMALLY BROKEN, EXTRUDED ALUMINUM STOREFRONT SYSTEM CONSISTING OF FRAMING MEMBERS OF THICKNESS REQUIRED AND REINFORCED AS REQUIRED TO SUPPORT IMPOSED LOADS AND TO FIT THE DIMENSIONS AND DEPTHS INDICATED ON THE CONSTRUCTION DOCUMENTS AND
- COMPLYING WITH THE FOLLOWING: 1. <u>STRUCTURAL PERFORMANCE</u>: PROVIDE SYSTEMS, INCLUDING ANCHORAGE, CAPABLE OF WITHSTANDING THE FOLLOWING LOADS:
- MAIN FRAMING MEMBER DEFLECTION: LIMITED TO 1/175 OF CLEAR SPAN OR 3/4" WHICHEVER IS SMALLER STRUCTURAL TESTING: SYSTEMS WHEN TESTED ACCORDING TO ASTM E 330 AT 150 PERCENT OF INWARD AND OUTWARD WIND-LOAD DESIGN PRESSURE DO NOT EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS, DEFLECTION FAILURES, OR PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS ECEEDING 0.2 PERCENT
- AIR INFILTRATION: LIMITED TO 0.06 CFM/SQ. FT. (0.03 L/s PER SQ. IN.) OF SYSTEM SURFACE AREA WHEN TESTED ACCORDING TO ASTM E 283 AT A STATIC-AIR-PRESSURE DIFFERENCE OF 1.57 lbf/sq. ft. (75 Pa) WATER PENETRATION: SYSTEMS DO NOT EVIDENCE WATER LEAKAGE WHEN TESTED
- ACCORDING TO ASTM E 331 AT MINIMUM DIFFERENTIAL PRESSURE OF 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT LESS THAN 6.24 lbf/sq. ft. (300 Pa). AVERAGE U-FACTOR: NOT MORE THAN 0.69 Btu/sq. ft. x h x deg. f (3.92 W/sq. m x K) PER AAMA 5. <u>DOORS:</u> 1-3/4" THICK GLAZED DOORS WITH MINIMUM 0.125" THICK EXTRUDED TUBULAR RAIL AND STILE MEMBERS. MECHANICALLY FASTENED CORNERS WITH REINFORCED
- BRACKETS THAT ARE DEEP PENETRATION AND FILLET WELDED OR THAT INCORPORATE CONCEALED TIE-RODS, SNAP-ON EXTRUDED ALUMINUM GLAZING STOPS, AND PREFORMED GASKETS. a. INTERIOR DOORS: GLAZE WITH 1/4" CLEAR TEMPERED GLASS. PROVIDE ANSI/BHMA A156.16 SILENCERS. THREE ON STRIKE JAMB OF SINGLE DOOR FRAMES AND TWO
- ON HEAD OF DOUBLE DOOR FRAMES. EXTERIOR DOORS: GLAZE WITH INSULATED TEMPERED GLASS UNITS MATCHING STOREFRONT GLASS OR CLEAR INSULATED GLASS PER CONSTRUCTION DRAWINGS.
- PROVIDE COMPRESSION WEATHERSTRIPPING AT FIXED STOPS. AT OTHER LOCATIONS, PROVIDE SLIDING WEATHERSTRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE. HARDWARE: PER DOOR SCHEDULE
- 6. FASTENERS AND ACCESSORIES: COMPATIBLE WITH ADJACENT MATERIALS, CORROSION-RESISTANT. NONSTAINING, AND NONBLEEDING. USE CONCEALED FASTENERS EXCEPT
- FOR APPLICATION OF DOOR HARDWARE. FABRICATION: FABRICATE FRAMING IN PROFILES INDICATED. PROVIDE SUBFRAMES AND REINFORCING AS REQUIRED FOR A COMPLETE SYSTEM. FACTORY ASSEMBLE COMPONENTS TO GREATEST EXTENT POSSIBLE. DISASSEMBLE COMPONENTS ONLY AS NECESSARY FOR SHIPMENT AND INSTALLATION. DOORS FRAMING: REINFORCE TO SUPPORT IMPOSED LOADS. FACTORY ASSEMBLE DOOR AND FRAME UNITS AND FACTORY INSTALL HARDWARE TO GREATEST EXTENT POSSIBLE. REINFORCE DOOR AND FRAME UNITS FOR HARDWARE INDICATED. CUT.

DRILL, AND TAP FOR FACTORY-INSTALLED HARDWARE BEFORE FINISHING

- 8. <u>ALUMINUM FINISH</u>: COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FLUOROPOLYMER, 2-COAT SYSTEM, COMPLYING WITH AAMA 2604
- ISOLATE METAL SURFACES IN CONTACT WITH INCOMPATIBLE MATERIALS, INCLUDING WOOD, BY PAINTING CONTACT SURFACES WITH BITUMINUOUS COATING OR PRIMER, OR BY APPLYING SEALANT TAPE RECOMMENDED BY MANUFACTURER.
- 2. INSTALL FRAMING COMPONENTS TO PROVIDE A WEATHERPROOF SYSTEM AND TRUE IN ALIGNMENT WITH ESTABLISHED LINES AND GRADES TO THE FOLLOWING TOLERANCES: VARIATION FROM PLANE: LIMIT TO 1/8" IN 12 FEET: 1/4" OVER TOTAL LENGTH LIGNMENT: FOR SURFACES ABUTTING LINE, LIMIT OFFSET TO 1/16". FOR SURFACES
- MEETING AT CORNERS, LIMIT OFFSET TO 1/32". DIAGONAL MEASUREMENTS: LIMIT DIFFERENCE BETWEEN DIAGONAL MEASUREMENTS TO 1/8"
- PERIMETER JOINTS: 1/2" MAXIMUM. INSTALL DOORS WITHOUT WARP OR RACK. ADJUST DOORS AND HARDWARE TO PROVIDE TIGHT FIT AT CONTACT POINTS AND SMOOTH OPERATION.

## 087100 DOOR HARDWARE

- SUBMITTALS: PRODUCT DATA AND HARDWARE SCHEDULE INDICATING HARDWARE ITEM, FINISH, AND QUANTITY LOCATED ON EACH DOOR WITH DOOR AND HARDWARE SET NUMBERING
- CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. B. <u>HARDWARE</u>: FURNISH PRODUCTS AS SPECIFIED IN THE HARDWARE SETS CONTAINED IN THE
- CONSTRUCTION DOCUMENTS AND AS FOLLOWS: a. QUANTITY: 3 HINGES FOR DOORS 90" OR LESS IN HEIGHT; 4 HINGES FOR DOORS
- MORE THAN 90" IN HEIGHT. BEARING: BALL BEARING HINGES AT ALL LOCATIONS.
- MATERIAL: STAINLESS STEEL OR BRASS/BRONZE HINGES WITH STAINLESS STEEL PINS FOR EXTERIOR.
- PINS: NONREMOVABLE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE; NON-RISING ELSEWHERE.
- LOCKSETS AND LATCHSETS BORED LOCKS AND LATCHES: BHMA A156.2, SERIES 4000, GRADE 1
- EXIT DEVICES: BHMA A156.3, GRADE 1 AUXILIARY LOCKS: BHMA A156.5, GRADE 1
- INTERCONNECTED LOCKS AND LATCHES: BHMA A156.12, SERIES 5000, GRADE 1 MORTISE LOCKS AND LATCHES: BHMA A156.13, SERIES 1000, GRADE 1 TRIM: LEVER HANDLE STYLE PER CONSTRUCTION DOCUMENTS OR IF NOT SPECIFIED, MATCH BUILDING STANDARD. IF NOT SPECIFIED AND NO STANDARD EXISTS, MATCH SCHLAGE "OMEGA"; TRIM ON EXIT DEVICES SHALL MATCH
- LOCKSETS KEYING: PROVIDE CONSTRUCTION KEYING AND COORDINATE FINAL KEYING WITH OWNER'S MASTER-KEY SYSTEM. FURNISH KEY CONTROL SYSTEM, INCLUDING
- LOCATION: MOUNT CLOSERS ON INTERIOR (ROOM SIDE) OF DOOR OPENING. PROVIDE REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNTED CLOSERS AS
- b. OPTIONS: FURNISH ADJUSTABLE DELAYED OPENING (ADA ACCESSIBLE) FEATURE ON STOPS: FURNISH AND INSTALL WALL OR FLOOR STOPS AS APPROPRIATE FOR ALL DOORS
- WHETHER INDICATED OR NOT. WEATHERSTRIPPING: AT ALL EXTERIOR DOORS AND AS SCHEDULED, PROVIDE WEATHERSTRIPPING ON HEAD AND JAMBS AND DRIP-SWEEP AT SILL.
- SMOKE GASKETING: PROVIDE SMOKE GASKETING AT ALL FIRE-RATED DOORS. THRESHOLDS: PROVIDE THRESHOLDS AT ALL EXTERIOR DOORS AND AS SCHEDULED INSTALLATION: MOUNT HARDWARE IN LOCATIONS RECOMMENDED BY THE DOOR AND

HARDWARE INSTITUTE, UNLESS OTHERWISE INDICATED.

- SUBMITTALS: PRODUCT DATA AND (2) 12" SQUARE SAMPLES OF EACH TYPE OF GLASS SPECIFIED.
- FIRE RESISTANCE-RATED ASSEMBLIES: PRODUCTS IDENTICAL TO THOSE TESTED PER NFPA 252 FOR DOORS AND NFPA 257 FOR WINDOW ASSEMBLIES; BOTH LABELED AND LISTED BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO
- AUTHORITIES HAVING JURISDICTION. SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 GLAZING PUBLICATIONS: WHERE APPLICABLE, COMPLY WITH WITH THE PUBLISHED
- RECOMMENDATIONS OF THE FOLLOWING: GANA PUBLICATIONS: "GLAZING MANUAL" AND "LAMINATED GLASS DESIGN GUIDE" AAMA PUBLICATIONS: AAMA GDSG-1, "GLASS DESIGN FOR SLOPED GLAZING", AND
- AAMA TIR-A7. "SLOPED GLAZING GUIDELINES". SIGMA PUBLICATIONS: SIGMA TM-3000, "VERTICAL GLAZING GUIDELINES" AND SIGMA TB-3001, "SLOPED GLAZING GUIDELINES".
- FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY q3 HEAT-TREATED FLOAT GLASS: ASTM C 1048, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRED BY CODE OR INSTALLATION CONDITIONS.
- COATED GLASS: ASTM C 1048. CONDITION C, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRES BY CODE OR INSTALLATION CONDITIONS.
- WIRED GLASS: TYPE II, CLASS I, QUALITY q8, FORM 1 POLISHED, WITH m2 SQUARE MESH. .25" THICK.
- PATTERNED GLASS: ASTM C 1036, TYPE II, CLASS 1 , FORM 3, QUALITY q8, FINISH F1 PATTERN PER CONSTRUCTION DRAWINGS. TEMPERED PATTERNED GLASS: ASTM C 1048. TYPE II, CLASS 1, FORM 3, QUALITY q8,
- FINISH F1, PATTERN PER CONSTRUCTION DRAWINGS. MIRROR GLASS: ASTM C 1036, TYPE I, CLASS 1, QUALITY q1, SILVER COATED PER FS DDM411C, 6.0mm THICK, WITH EDGES FLAT POLISHED.
- SEALED INSULATING-GLASS UNITS: PREASSEMBLED UNITS COMPLYING WITH ASTM E 774 FOR CLASS CBA UNITS WITH TWO SHEETS OF GLASS SEPARATED BY A 1/2-INCH
- DEHYDRATED SPACE FILLED WITH AIR. a. VISION GLASS: (GL-1) PPG SOLARBAN 70XL SOLAR CONTROL LOW-E GLASS OR APPROVED EQUAL • 1/4" CLEAR, 1/2" AIR SPACE, 1/4" CLEAR - PROVIDE LOW-E COATING ON 2ND
- SURFACE. VISIBILE LIGHT TRANSMITTANCE: 64% SOLAR HEAD GAIN COEFFICIENT: 0.27
- SPANDREL GLASS: (SP-1) TO MATCH VISION GLASS WITH OPACIFIER APPLIED TO FOURTH SURFACE WARRANTY: 10 YEAR WARRANTY TO INCLUDE REPLACEMENT OF SEALED UNITS EXHIBITING SEAL FAILURE, INTERPANE DUSTING OR MISTING.
- COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS,
- SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE CONTAINED IN GANA'S "GLAZING MANUAL" SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR CHARACTERISTICS.

AFTER GLASS INSTALLATION IS COMPLETE, REMOVE GLAZING MATERIALS AND LABELS

FROM FINISHED SURFACES, AND THOROUGHLY CLEAN GLASS AND ADJACENT FRAMING

#### AND SURFACES. REPEAT AS NECESSARY PRIOR TO FINAL WALK-THROUGH. - END DIVISION 8 -

# <u>DIVISION 9 - FINISHES</u>

- 092216 NON-STRUCTURAL METAL FRAMING
- STEEL FRAMING MEMBERS: COMPLY WITH ASTM C754 IN DEPTHS AND GAGES AS INDICATED IN THE CONSTRUCTION DRAWINGS AND AS FOLLOWS STEEL SHEET COMPONENTS: COMPLY WITH ASTM C645 WITH MANUFACTURER'S
- STANDARD CORROSION-RESISTANT ZINC COATING. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER. .0625" DIAMETER OR DOUBLE STRAND OF .0475" DIAMTER WIRE. WIRE HANGERS: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER. .0162"

- PANEL PRODUCTS: PROVIDE IN THICKNESS AND TYPE INDICATED IN THE CONSTRUCTION
- DRAWINGS IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS AND AS GYPSUM WALLBOARD: ASTM C 36, TYPE 'X' WITH TAPERED EDGES, SAG-RESISTANT TYPE FOR CEILING SURFACES.
- WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630, TYPE 'X' ON ALL TOILET ROOM AND SHOWER ROOM WALLS, BEHIND ALL PLUMBING FIXTURES, AND AS INDICATED GLASS-MAT, WATER RESISTANT GYPSUM BACKING BOARD: ASTM C 1178, GEORGIA PACIFIC "DENS-SHIELD TILE BACKER", OR EQUAL AT TILED, 'WET' WALLS
- EXTERIOR SOFFIT BOARD: GEORGIA PACIFIC "DENS-GLAS GOLD", OR APPROVED EQUAL CEMENTITIOUS BACKER UNITS: ANSI A118.9. MPACT RESISTANT GYPSUM BOARD: ASTM C 1629/C 1629M WITH TAPERED EDGES. GLASS-MAT GYPSUM SHEATHING BOARD: ASTM C 1177, WITH FIBERGLASS MAT
- AMINATED TO BOTH SIDES AND WITH MANUFACTURER'S STANDARD EDGES, GEORGIA PACIFIC "DENSGLASS GOLD SHEATHING"
- TRIM: ASTM 1047, FORMED FROM GALVANIZED OR ALUMINUM COATED STEEL SHEET, ROLLED ZINC, OR PLASTIC
  - EXPOSED PANEL EDGES: PROVIDE LC-BEAD (J-BEAD) UNLESS NOTED OTHERWISE USE TEAR-AWAY BEAD WHERE GYP. BD. MEETS WINDOW FRAMES OR CEILING GRID. CONTROL JOINTS: PROVIDE WHERE INDICATED OR APPROXIMATELY 30'-0" MAX. CONTACT ARCHITECT FOR LOCATIONS IF NOT INDICATED.

a. OUTSIDE CORNERS: PROVIDE CORNER BEAD UNLESS NOTED OTHERWISE

- REVEALS AND MOLDINGS: EXTRUDED ALUMINUM WITH CLASS II CLEAR ANODIZED SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACED) ACOUSTICAL SEALANT: COMPLY WITH ASTM C 834, NONSAG, PAINTABLE, NONSTAINING
- FIRE-RESISTANCE-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL O THOSE TESTED IN ASSEMBLIES AS INDICATED BY AND INDEPENDENT TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. WHERE DECORATIVE REVEALS ARE INDICATED IN A RATED ASSEMBLY, PROVIDE ADDITIONAL LAYERS

OF GYPSUM BOARD AS NECESSARY TO MAINTAIN THE FIRE RATED ASSEMBLY BEHIND THE

STC-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE STED IN ASSEMBLIES PER ASTM E 90 AND CLASSIFIED PER ASTM E 413 BY A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY.

LAYER CONTAINING THE REVEALS.

## (CONT) 092900 GYPSUM BOARD

- FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 840 AND WITH U.S. GYPSUM'S "GYPSUM CONSTRUCTION HANDBOOK" ISOLATE FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT AND PROVIDE
  - BRACING AS NECESSARY FOR PROPER SUPPORT WHETHER INDICATED OR NOT. GYPSUM PANELS AND FINISH: COMPLY WITH ASTM C 840 AND GA-216. ISOLATE GYPSUM BOARD ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY WORK AND FINISH AS FOLLOWS:
  - a. LEVEL 1 (EMBED TAPE AT JOINTS)
    - LOCATIONS: AT CONCEALED AREAS UNLESS A HIGHER LEVEL IS INDICATED OR REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLY.
  - b. LEVEL 2 (EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO TAPE. FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT) LOCATIONS: AT SUBSTRATES BEHIND TILE.
  - c. LEVEL 4 (EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT) LOCATIONS: AT ALL WALLS RECEIVING FLAT OR SATIN SHEEN PAINT OR
  - WALLCOVERING LEVEL 5 (EMBED TAPE, APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY THIN SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH
  - LOCATIONS: AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT LONG HALLWAYS, CRITICAL LIGHTING AREAS ABUTTING WINDOWS OR AREAS FLOODED WITH NATURAL OR ARTIFICIAL LIGHT, ALL WALLS ADJACENT TO AND PERPINDICULAR TO EXTERIOR GLASS, AND ALL GYPSUM BOARD CEILINGS TERMINATIONS AT WINDOW MULLIONS: WHEN GYPSUM BOARD PARTITIONS TERMINATE
  - INTO WINDOW MULLIONS, THE TERMINATIONS SHALL BE INSTALLED AS DETAILED ON THE CONSTRUCTION DOCUMENTS. IF NOT DETAILED, THE TERMINATIONS SHALL BE INSTALLED TO ALLOW PERIMETER WINDOW BLINDS TO EXTEND FULLY TO THE WINDOW MULLION, NOT CUT SHORT DUE TO THE WIDTH OF THE PARTITION.

#### 093013 CERAMIC TILE

- SUBMITTALS: PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF EACH TILE SPECIFIED FOR VERIFICATION PURPOSES.
- B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CERAMIC TILE PACKAGED WITH PROTECTIVE OVERING AND LABELED FOR STORAGE.
- C. TILE: COMPLY WITH STANDARD GRADE REQUIREMENTS IN ANSI A137.1 "SPECIFICATIONS FOR CERAMIC TILE" FOR PRODUCTS AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS. FLOOR TILE SHALL HAVE A STATIC COEFFICIENT OF FRICTION OF 0.6 OR GREATER PER ASTM C
- D. <u>INSTALLATION MATERIALS</u>
  - TYPICAL INTERIOR INSTALLATIONS: LATEX/POLYMER MODIFIED PORTLAND CEMENT COMPLYING WITH ANSI A108.5 AND ANSI 118.4. GLASS TILE: PER TILE MANUFACTURER'S RECOMMENDATIONS
- GROUT:UNSANDED FOR JOINTS 1/16" WIDTH OR LESS, SANDED FOR JOINTS GREATER THAN 1/16" IN COLOR INDICATED OR TO BE SELECTED. TYPICAL INTERIOR INSTALLATIONS: STANDARD CEMENT GROUT, FOOD SERVICE, BUILDING LOBBIES, AND RESTROOMS: WATER-CLEANABLE EPOXY 3. SETTING BED ACCESSORIES: ANSI A 108.1A
- INSTALLATION METHODS: COMPLY WITH TILE INSTALLATION STANDARDS IN ANSI'S 'SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" AND TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" THAT APPLY TO THE MATERIALS AND METHODS INDICATED BELOW: PROVIDE CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS AND COLD JOINTS
- IN SLAB. AT ALL LOCATIONS WHERE TILE EDGES ARE DESIGNED TO BE EXPOSED, FACTORY EDGES SHALL BE EXPOSED IN LIEU OF CUT EDGES. 1. EXTERIOR CONCRETE WALKWAYS AND PATIOS: TCA F102 (THIN-SET MORTAR BONDED TO CONCRETE SLAB)
- ON-GRADE CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE 3. ELEVATED CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE SLAB) IF FLOOR IS SUBJECT TO MOVEMENT AND DEFLECTION CONTACT ARCHITECT FOR ALTERNATE METHOD. FLOORS IN FOOD SERVICE, BUILDING LOBBIES, AND RESTROOMS: TCA F-115 (THIN-SET
- OVER CMU OR CONCRETE: TCA W202 (LATEX PORTLAND CEMENT MORTAR OVER OVER GYPSUM BOARD: TĆA W243 (THIN-SET MORTAR BONDED TO GYPSUM BOARD) OVER COATED GLASS-MAT BACKER BOARD: TCA W245 (THIN-SET MORTAR BONDED TO
- TERMINATIONS: WHERE CUT TILE IS SPECIFIED AS THE TOP COURSE ON WALL WAINSCOTING OR WALL BASE WITH AN EXPOSED TOP EDGE, THE FACTORY EDGE SHALL BE USED AS THE

MORTAR BONDED TO CONCRETE SUBFLOOR WITH EPOXY GROUT)

- G. <u>CONFLICTS:</u> IF NOT ADDRESSED ON DRAWINGS, WHERE ELECTRICAL DEVICES OR TOILET ACCESSORIES STRADDLE THE TRANSITION FROM THE TOP EDGE OF WAINSCOT WALL TILE TO GYPSUM BOARD SUBSTRATE, CONTACT ARCHITECT FOR RESOLUTION.
- H. GROUT JOINTS:

  1. JOINT SIZE: SET TILE WITH THE SMALLEST GROUT JOINT ACHIEVABLE AND AS RECOMMENED BY THE MFR. BASED ON THE TILE PRODUCT AND SUBSTRATE CONDITIONS, UNLESS NOTED OTHERWISE. 2. TILE PATTERN: LAY TILE IN PATTERNS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE

INSTALLATION: INSTALL GROUT PER MANUFACTURER'S INSTRUCTIONS, EXERCISING CARE

TO AVOID REMOVAL OF GROUT COLOR BY USE OF EXCESS WATER DURING INSTALLATION. FADED OR CHALKY GROUT SHALL BE CAUSE FOR REJECTION. SEALER: AFTER FULLY CURED, GROUT SHALL BE SEALED WITH TWO (2) COATS OF COMMERCIAL QUALITY PENETRATING SILICONE SEALER.

SAME SIZE, UNLES INDICATED OTHERWISE.

CLASSIFICATION II (INTERIOR)

FOR ALTERNATE METHOD.

- SUBMITTALS: PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF EACH TILE SPECIFIED FOR VERIFICATION PURPOSES.
- ATTIC STOCK: FURNISH 2% OF EACH TYPE OF STONE TILE PACKAGED WITH PROTECTIVE OVERING AND LABELED FOR STORAGE.
- STONE TILE: COMPLY WITH STANDARDS BELOW FOR PRODUCTS, SIZES, THICKNESSES, AND FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS. 1. GRANITE: COMPLY WITH ASTM C 615,

LIMESTONE: COMPLY WITH ASTM C568, CLASSIFICATION II (MEDIUM DENSITY), OR

- CLASSIFICATION III (HIGH DENSITY MARBLE: COMPLY WITH ASTM C 503, CLASSIFICATION I (CALCITE), OR CLASSIFICATION II (DOLOMITE). 4. SLATE: COMPLY WITH ASTM C 629 CLASSIFICATION I (EXTERIOR), OR CLASSIFICATION II (INTERIOR).
- SETTING AND GROUTING MATERIALS: COMPLY WITH THE MATERIALS STANDARDS IN ANSI'S "SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" THAT APPLY TO THE MATERIALS AND METHODS INDICATED. 2. FLOOR SEALER: COLORLESS, SLIP AND STAIN RESISTANT, NOT AFFECTING COLOR

TRAVERTINE: COMPLY WITH ASTM C 1527 CLASSIFICATION I (EXTERIOR), OR

- OR PHYSICAL PROPERTIES OF STONE SURFACES. INSTALLATION METHODS: COMPLY WITH THE TILE INSTALLATION STANDARDS IN ANSI'S "SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" THAT APPLY TO THE
- MATERIALS AND METHODS INDICATED. ON-GRADE CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE ELEVATED CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE SLAB) IF FLOOR IS SUBJECT TO MOVEMENT AND DEFLECTION CONTACT ARCHITECT
- OVER CMU OR CONCRETE: TCA W202 (LATEX PORTLAND CEMENT MORTAR OVER CONCRETE OR MASONRY). 4. OVER GYPSUM BOARD: TCA W243 (THIN-SET MORTAR BONDED TO GYPSUM BOARD)
- TILE PATTERN: LAY TILE IN PATTERNS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR AND BASE ARE THE SAME SIZE, UNLESS INDICATED OTHERWISE. INSTALLATION: INSTALL GROUT PER MANUFACTURER'S INSTRUCTIONS, EXERCISING

TILE PRODUCT AND SUBSTRATE CONDITIONS, UNLESS NOTED OTHERWISE.

CARE TO AVOID REMOVAL OF GROUT COLOR BY USE OF EXCESS WATER DURING INSTALLATION. FADED OR CHALKY GROUT SHALL BE CAUSE FOR REJECTION. SEALER: AFTER FULLY CURED AND CLEANED, TILE AND GROUT SHALL BE SEALED ACCORDING TO SEALER MANUFACTURER'S WRITTEN INSTRUCTIONS.

JOINT SIZE: SET TILE WITH THE SMALLEST GROUT JOINT ACHIEVABLE BASED ON THE

## 095123 ACOUSTICAL TILE CEILINGS

- A. <u>SUBMITTALS</u>: PRODUCT DATA
- B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CEILING TILE PACKAGED WITH PROTECTIVE OVERING AND LABELED FOR STORAGE.
- ACOUSTICAL TILE PRODUCTS: PROVIDE CEILING TILE IN TYPE AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM E 1264, CLASS A MATERIALS, TESTED PER
- <u>USPENSION SYSTEM: PROVIDE HEAVY DUTY, DIRECT-HUNG, SUSPENSION SYSTEMS AS</u> INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM C 635. FURNISH
- ALUMINUM GRID IN SHOWERS, KITCHENS, AND OTHER HIGH-HUMIDITY AREAS. 1. ATTACHMENT DEVICES: SIZE FOR FIVE (5) TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE 1, DIRECT HUNG UNLESS OTHERWISE INDICATED.
- WIRE HANGERS, BRACES, AND TIES: ZINC-COATED CARBON-STEEL WIRE; ASTM A 641/ (A 641 M), CLASS 1 ZINC COATING, SOFT TEMPER WITH A YIELD STRENGTH AT LEAST THREE (3) TIMES THE HANGER DESIGN LOAD (ASTM C 635, TABLE 1, DIRECT HUNG), BUT NOT LESS THAN 0.135" DIAMETER WIRE.
- SEISMIC STRUTS: MANUFACTURER'S STANDARD PRODUCT DESIGNED TO ACCOMMODATE SEISMIC FORCES. HOLD-DOWN CLIPS: PROVIDE HOLD-DOWN CLIPS ON CEILING TILE IN ENTRANCE VESTIBULES, COMPUTER ROOMS EMPLOYING DRY CHEMICAL FIRE-SUPPRESSION
- SYSTEMS, AND OTHER AREAS AS INDICATED. E. <u>INSTALLATION</u>: COMPLY WITH ASTM C 636 AND CISCA'S "CEILING SYSTEMS HANDBOOK". SEQUENCE WORK TO ENSURE ACOUSTICAL CEILINGS ARE NOT INSTALLED UNTIL
- BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATION ACTIVITIES HAVE TERMINATED, AND OVERHEAD WORK IS COMPLETED, TESTED, AND APPROVED.
- INSTALL CEILING GRID AS INDICATED TO BE SYMMETRICAL ABOUT BOTH AXES OF EACH ROOM USING NOT LESS THAN HALF-SIZE TILE UNLESS INDICATED OTHERWISE ON THE REFLECTED CEILING PLAN.

SUPPORT SUSPENSION SYSTEM INDEPENDENTLY OF DUCTS, PIPES, AND CONDUITS.

SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6" OF EACH CORNER OR SUPPORT FIXTURES INDEPENDENTLY. PROVIDE MATCHING PERIMETER MOLDING INSTALLED IN BEAD OF ACOUSTICAL SEALANT AT ALL LOCATIONS WHERE CEILING INTERSECTS VERTICAL SURFACES. USE MATCHING

BASE INSTALLATION.

096513 RESILIENT BASE AND ACCESSORIES A. <u>SUBMITTALS</u>: PRODUCT DATA AND THREE (3) SAMPLES OF EACH TILE AND BASE SPECIFIED FOR

PRE-FORMED CLOSURES AT ROUND OR CURVED OBSTRUCTIONS.

VERIFICATION PURPOSES. B. <u>ATTIC STOCK</u>: FURNISH 20' OF EACH COLOR AND TYPE OF WALL BASE PACKAGED WITH

6. FIELD-CUT EDGES SHALL MATCH PROFILE OF FACTORY EDGES.

PROTECTIVE COVERING AND LABELED FOR STORAGE. RESILIENT WALL BASE: ASTM TYPE TS (RUBBER, VULCANIZED THERMOSET) 1/8" THICK, FURNISHED IN COILS IN STYLES AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS

TILE IS EXPOSED AS INDICATED IN THE FINISH SCHEDULE.

- WITH JOB-FORMED INSIDE AND OUTSIDE CORNERS. D. WALL BASE AND ACCESSORY INSTALLATION: CONFIRM THAT SOLID BACKING IS PROVIDED BEHIND ALL WALL BASE. AREAS WHERE
- INSTALL WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE IN MAXIMUM LENGTHS POSSIBLE. APPLY TO WALLS, COLUMNS, PILASTERS, CASEWORK, AND OTHER PERMANENT FIXTURES INSTALL TRANSITION STRIPS WHERE FLOORING MATERIALS MEET OR WHERE EDGE OF

GYPSUM BOARD IS HELD MORE THAN 1/2" ABOVE SLAB SHALL BE FILLED IN PRIOR TO

- 097200 WALL COVERINGS A. <u>SUBMITTALS</u>: THREE (3) SAMPLES OF EACH WALLCOVERING SPECIFIED FOR VERIFICATION
- ATTIC STOCK: FURNISH FULL-WIDTH ROLLS OF EACH WALLCOVERING EQUAL TO 5% OF AMOUNT OF EACH TYPE INSTALLED, PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR
- CONSTRUCTION DOCUMENTS WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF NOT MORE THAN 25 AND 450 RESPECTIVELY, PER ASTM E 84. ORDER ALL MATERIALS FROM THE SAME FACTORY DYE LOT.

PRODUCTS: PROVIDE WALLCOVERING IN PATTERNS AND COLORS AS INDICATED IN THE

- INSTALLATION

  1. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR WALLCOVERING BOND, INCLUDING MOLD, MILDEW, OIL, GREASE, INCOMPATIBLE PRIMERS AND DIRT AND PRIME PRIME NEW GYPSUM BOARD WITH PRIMER RECOMMENDED BY WALLCOVERING
- ACCLIMATIZE WALLCOVERING MATERIALS BY REMOVING THEM FROM PACKAGING IN THE INSTALLATION AREAS NOT LESS THAN 24 HOURS PRIOR TO INSTALLATION. INSTALL SEAMS VERTICAL AND PLUMB, WITH NO HORIZONTAL SEAMS, AND NO OVERLAPPED SEAMS UNLESS "RAILROADING" IS SPECIFIED ON THE CONSTRUCTION DOCUMENTS. MATCH OR RANDOM MATCH PATTERN AND REVERSE HANG WHEN
- INDICATED IN MANUFACTURER'S INSTRUCTIONS WHERE WALL SURFACES EXTEND INTO THE SAME PLANE AS VERTICAL FACES OF CEILING SOFFITS, CONTACT ARCHITECT FOR INSTRUCTIONS ON FINISHING OF VERTICAL FACES. CLEANING: REMOVE EXCESS ADHESIVE AT FINISHED SEAMS, PERIMETER EDGES, AND

ADJACENT SURFACES USING CLEANING METHODS RECOMMENDED BY WALLCOVERING

#### 097720 FIBERGLASS REINFORCED PLASTIC PANELS (FRP) A. INSTALL FRP PANELS TO 8'-0" HIGH AND INCLUDING TRIM AND ACCESSORIES HIGH ON ALL

MANUFACTURER.

WALLS BEHIND JANITIOR SINKS AND MOP BASINS (COLOR TO BE SELECTED).

- A. <u>SUBMITTALS</u>: PRODUCT DATA AND THREE (3) DRAW-DOWN SAMPLES OF EACH COLOR AND SHEEN SPECIFIED. B. <u>ATTIC STOCK</u>: FURNISH ONE (1) GALLON OF EACH PAINT COLOR AND SHEEN, IN CONTAINERS,
- PROPERLY LABELED AND SEALED. PRODUCTS: PROVIDE MANUFACTURER'S BEST QUALITY PAINTS OF COLOR AND SHEEN AS INDICATED IN THE CONSTRUCTION DOCUMENTS THAT ARE FORMULATED AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.
- ACCORDING TO COATING MANUFACTURER'S WRITTEN INSTRUCTIONS. WHEN SPRAYED, EXTERIOR COATINGS SHALL BE BACK-ROLLED FOLLOWING SPRAY APPLICATION. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS. PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER SURFACES TO PROVIDE A SMOOTH, OPAQUE SURFACE OF UNIFORM APPEARANCE. PROVIDE A FINISH FREE OF

EQUIPMENT: APPLY COATINGS BY BRUSH, ROLLER, SPRAY, OR OTHER APPLICATORS

CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS, OR

3. TRANSPARENT (CLEAR) FINISHES: USE MULTIPLE COATS TO PRODUCE A GLASS-SMOOTH

SURFACE FILM OF EVEN LUSTER. PROVIDE A FINISH FREE OF LAPS, RUNS, CLOUDINESS, COLOR IRREGULARITY, BRUSH MARKS, ORANGE PEEL, NAIL HOLES OR OTHER SURFACE

E. <u>PAINT SYSTEMS - EXTERIOR</u>: PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE EXTERIOR

1. FERROUS METAL: SEMIGLOSS ALKYD ENAMEL: TWO COATS OVER RUST-INHIBITIVE

OTHER SURFACE IMPERFECTIONS.

- ZINC-COATED METAL: SEMIGLOSS ALKYD ENAMEL: TWO COATS OVER GALVANIZED METAL ALUMINUM: SEMIGLOSS ALKYD ENAMEL: TWO COATS OVER PRIMER
- PAINT SYSTEMS INTERIOR: PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE INTERIOR SUBSTRATE INDICATED GYPSUM BOARD: ACRYLIC ENAMEL; SHEEN AS INDICATED: TWO COATS OVER PRIMER WOODWORK: SEMI-GLOSS ALKYD ENAMEL: TWO COATS OVER PRIMER
  - NATURAL FINISH WOODWORK: ALKYD-BASED, SATIN VARNISH: TWO COATS OVER SEALER FERROUS METAL: SEMIGLOSS ACRYLIC ENAMEL: TWO COATS OVER FERROUS METAL

ZINC COATED METAL: ACRYLIC ENAMEL; SHEEN AS INDICATED: TWO COATS OVER

STAINED WOODWORK: ALKYD-BASED, SATIN VARNISH: TWO COATS OVER SEALER AND

GALVANIZED METAL PRIMER - END DIVISION 9



# PARAGON STAR

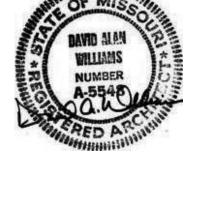
PARAGON STAR

FIRST PLAT, LOT 9

LEE'S SUMMIT, MO

Project No.: 19050.01 10.25.19 Issued For: SHELL - CD SET REVISIONS \_\_\_\_ \_\_\_\_

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

**ENGINEERS** 

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

HENDERSON

BSE STRUCTURAL

HOERR SCHAUDT / LANDSCAPE BSE STRUCTURAL FOUNDATIONS

STRUCTURAL

MECHANICAL

ELECTRICAL

CIVIL

PLUMBING HENDERSON **ENGINEERS** 

**ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

Overland Park, Kansas 66211 913+498-1550

SHEET TITLE

7007 College Blvd, Suite 415

ARCHITECTURE

SHEET NUMBER

**PROJECT** 

**SPECIFICATIONS** 

#### 122413 ROLLER WINDOW SHADES

- PRODUCT DATA FOR EACH PRODUCT TYPE MATERIAL SAMPLES FOR SHADE FABRIC OPTIONS AND FASCIA OPTIONS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE PATTERNS AND COLORS
- SHOP DRAWINGS SHOWING FABRICATION AND INSTALLATION DETAILS 4. OPERATION AND MAINTENANCE DATA
- B. <u>WARRANTIES:</u> ROLLER SHADE HARDWARE, CHAIN, AND SHADECLOTH: 10 YEARS
- ACCEPTABLE MANUFACTURERS: MECHOSHADE SYSTEMS, INC., HUNTER-DOUGLAS CONTRACT, WT SHADE, OR APPROVED EQUAL. MUST OBTAIN ROLLER SHADES FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
- BASIS OF DESIGN: MANUAL ROLLER SHADE "H100 SOLOMOUNT" BY WT SHADE OR APPROVED EQUAL. PROVIDE WITH FRONT FACSIA (WHITE) OR CLOSURE MOUNT WITH TILE SUPPORT AND REMOVABLE CLOSURE TRIM (WHITE) AS INDICATED IN THE DRAWINGS.
- CONFIGURATION: ONE-PIECE UNITS EXTENDING FROM WINDOW HEAD TO SILL, UNLESS TED OTHERWISE. SEE CONSTRUCTION DRAWINGS FOR MOUNTING LOCATION. TYPE: MANUALLY OPERATED, CHAIN DRIVEN, SUNSCREEN ROLLER SHADES. SHADE CLOTH: VISUALLY TRANSPARENT SINGLE THICKNESS, NON-RAVELING. ANTI-STATIC, FADE AND STAIN RESISTANT FABRIC CONTAINING PVC, POLYESTER, OR VINYL

RANGING FROM 6.00 OZ/SQ. YD - 20.70 OZ. SQ. YD. IN PATTERNS AND COLORS TO BE

OPENNESS FACTOR: 1% c. FIRE-TEST RESPONSE CHARACTERISTICS: COMPLY WITH NFPA 701-99

SELECTED FOM MANUFACTURER'S FULL AVAILABLE RANGE.

a. ECOFABRIX: 253-89 (GRAY BLACK)

- ACCESSORIES: a. FASCIA: FURNISH CONTINUOUS REMOVABLE EXTRUDED ALUMINUM FASCIA TO FULLY CONCEAL BRACKETS, SHADE ROLLER, AND FABRIC ON THE TUBE THAT ATTACHES TO SHADE MOUNTING BRACKETS WITHOUT THE USE OF ADHESIVES, MAGNETIC STRIPS OR EXPOSED FASTENERS. PROVIDE END CAPS WHERE WHERE
  - MOUNTING CONDITIONS EXPOSE OUTSIDE OF ROLLER SHADE BRACKETS. b. SHADE POCKET: WHERE INDICATED, FURNISH EXTRUDED ALUMINUM SHADE POCKETS WITH EXPOSED EXTRUDED ALUMINUM CLOSURE MOUNT, TILE SUPPORT, AND REMOVABLE CLOSURE PANEL TO PROVIDE ACCESS TO SHADES.
- <u>INSTALLATION</u>: FURNISH AND INSTALL SHADES ON ALL EXTERIOR GLASS EXCEPT LOBBY AND ESTIBULE GLASS, UNLESS NOTED OTHERWISE. 1. INSTALL SHADES AFTER FINISH WORK IS COMPLETE AND AMBIENT TEMPERATURE AND
- HUMIDITY ARE AT LEVELS INTENDED FOR OCCUPANCY. 2. ADJUST AND BALANCE SHADES TO OPERATE SMOOTHLY, EASILY, SAFELY, AND FREE FROM BINDING THROUGH ENTIRE OPERATIONAL RANGE. FABRIC SHALL HANG STRAIGHT WITHOUT CURLING OR RAVELING AND SHALL NOT SHIFT MORE THAN 1/8" IN EITHER DIRECTION PER 8' OF SHADE HEIGHT DUE TO WARP DISTORTION OR WEAVE DESIGN.

#### - END DIVISION 12 -

#### **DIVISION 10 - SPECIALTIES 102113 TOILET COMPARTMENTS**

- SUBMITTALS: SHOP DRAWINGS INCLUDING DIMENSIONED PLANS, ELEVATIONS, CONNECTION DETAILS, AND DETAILS OF WALL SUPPORTS, PRODUCT DATA, AND COLOR CHARTS
- B. <u>STAINLESS STEEL TOILET COMPARTMENTS:</u>

3. CLEAN SURFACES JUST PRIOR TO OCCUPANCY.

- TOILET-ENCLOSURE STYLE: CEILING HUNG 2. URINAL-SCREEN STYLE: WALL HUNG WITH INTEGRAL FLANGES
- DOOR, PANEL, AND PILASTER CONSTRUCTION: SEAMLESS, METAL FACING SHEETS PRESSURE LAIMATED TO CORE MATERIAL; WITH CONTINUOUS INTERLOCKING MOLDING STRIP; CORNERS SECURED BY WELDING OR CLIPS EXPOSED WELDS GROUND SMOOTH, EXPOSED SURFACES SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, SDISCOLORATIONS, OR
- OTHER IMPERFECTIONS. STAINLESS STEEL SHEETS: ASTM A 666, TYPE 304, NO. 3 OR NO. 4 DIRECTIONAL POLISH. CORE MATERIAL: SOUND DEADENING HONEYCOMB OF RESIN-IMPREGNATED KRAFT
- PAPER IN THICKNESS REQUIRED TO PROVIDE FINISHED THICKNESS OF 1" MINIMUM FOR DOORS, PANELS, AND SCREENS, 11/4" MINIMUM FOR PILASTERS. 3. GRAB BAR REINFORCING: PROVIDE CONCEALED INTERNAL REINFORCEMENT FOR GRAB BARS MOUNTED ON UNITS TO MEET ALL REQUIREMENTS.
- FABRICATION: MOUNTING AND BRACING TYPE AS INDICATED ON CONSTRUCTION DOCUMENTS DOORS: 30" WIDE IN-SWINGING DOORS FOR STANDARD COMPARTMENTS: 36" WIDE OUT-SWINGING DOORS WITH MINIMUM 32" WIDE CLEAR OPENING FOR HANDICAP ACCESSIBLE
- COMPARTMENTS, UNLESS NOTED OTHERWISE. DOOR HARDWARE: CAST ZINC ALLOY (ZAMAC), STAINLESS STEEL, OR CLEAR ANODIZED
  - ALUMINUM COMPLYING WITH AMERICANS WITH DISABILITIES ACT FOR HANDICAP ACCESSIBLE COMPARTMENTS. a. HINGES: SELF-CLOSING, ADJUSTABLE TO HOLD DOOR OPEN AT ANY ANGLE UP TO 90
  - DEGREES. b. LATCHES AND KEEPERS: RECESSED UNIT DESIGNED FOR EMERGENCY ACCESS AND
  - WITH COMBINATION RUBBER-FACED DOOR STRIKE AND KEEPER. COAT HOOK: COMBINATION HOOK AND RUBBER-TIPPED BUMPER, SIZED TO
- PREVENT DOOR FROM HITTING COMPARTMENT-MOUNTED ACCESSORIES. DOOR BUMPER: RUBBER-TIPPED BUMPERS AT OUT-SWINGING DOORS e. DOOR PULL: PROVIDE AT OUT-SWINGING DOORS.
- INSTALLATION: INSTALL UNITS RIGID, STRAIGHT, LEVEL, AND PLUMB WITH NOT MORE THAN 1/2" BETWEEN PILASTERS AND PANELS AND NOT MORE THAN 1" BETWEEN PANELS AND WALLS. PROVIDE BRACKETS, PILASTER SHOES, BRACING, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. USE THEFT-RESISTANT EXPOSED FASTENERS FINISHED TO MATCH HARDWARE. USE SLEEVE NUTS FOR THROUGH-BOLT APPLICATIONS.
- ALIGN BRACKETS FOR PILASTERS WITH BRACKETS AT WALLS. 2. SET HINGES ON IN-SWINGING DOORS TO HOLD OPEN APPROXIMATELY 30 DEGREES FROM CLOSED POSITION WHEN UNLATCHED. SET HINGES ON OUT-SWINGING DOORS TO RETURN TO FULLY CLOSED POSITION.

# 102800 TOILET AND BATH ACCESSORIES:

REFERENCE CONSTRUCTION DRAWINGS FOR TYPE, QUANTITY, AND LOCATIONS OF TOILET AND BATH

- END DIVISION 10 -

#### **DIVISION 14 - CONVEYING SYSTEMS**

#### 14123.16 MACHINE ROOM-LESS ELECTRIC TRACTION PASSENGER ELEVATORS

- SHOP DRAWINGS INCLUDING PLANS, ELEVATIONS, SECTIONS AND DETAILS OF ASSEMBLY. ERECTION, ANCHORAGE, RAIL BRACKETS, INSERTS, BLOCK-OUTS, CUTOUTS AND EQUIPMENT IN MACHINE ROOM, AND CABS WITHIN HOSITWAY. INDICATE DETAILED ELECTRICAL REQUIREMENTS AND LOADS IMPOSED ON THE STRUCTURE.

INSPECTION AND ACCEPTANCE CERTIFICATES AND OPERATING PERMITS AS REQUIRED BY

- PRODUCT DATA INDICATING COMPLIANCE WITH REQUIREMENTS. FINISH SAMPLES
- **AUTHORITIES HAVING JURISDICTION** WARRANTY: MANUFACTURER'S STANDARD WRITTEN WARRANTY AGREEING TO REPAIR, RESTORE, OR REPLACE DEFECTS IN ELEVATOR WORK FOR A PERIOD OF (12) MONTHS FROM TEH DATE OF SUBSTANTIAL COMPLETION. FURNISH MAINTENANCE AND CALL BACK SERVCIE FOR A PERIOD OF 12 MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION.
- B. <u>ELEVATORS</u>: BASIS OF DESIGN: KONE MACHINE ROOM-LESS, ECOSPACE PROVIDE ELEVATOR(S) COMPLYING WITH ASME A17.1, SECTION 4.10 OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, SECTION 407 OF ICC ANSI A117.1, AND THE
  - FOLLOWING: ELEVATOR #1 AND 2 (PASSENGER):
  - a. RATED LOAD: 2500 LB
  - RATED SPEED: 110 FPM CAB HEIGHT: 10'-0"
  - DOOR HEIGHT: 8'-0" e. ACCOMODATE PORCELAIN FLOOR TILE IN WEIGHT CAPACITY

#### CAR ENCLOSURES AND ENTRANCES: DOOR, FRAME, AND FRONT WALL INCLUDING CONTROL PANEL: ASTM A666, TYPE 304,

- STAINLESS STEEL, WITH NO. 4 SATIN FINISH, BOTH FACES. DOOR FRAME SHALL HAVE 11/2-2" WIDE FACES.
- 2. REAR AND SIDE WALLS: a. REINFORCED ENAMELED STEEL CAB WALLS PREPARED FOR CUSTOM APPLIED
- THE CAB WALLS. REINFORCED ENAMELED STEEL CAB WALLS WITH REMOVABLE PLASTIC LAMINATE PANELS AND WITH SOUND DEADENING MATERIAL APPLIED TO THE EXTERIOR OF THE

FINISHES AND WITH SOUND DEADENING MATERIAL APPLIED TO THE EXTERIOR OF

- CAB WALLS. 3. CEILING: REFERENCE FINISH SCHEDULE AND NOTES
- FLOOR: SUBFLOOR DESIGNED TO RECEIVE PORCELAIN TILE, REFERENCE FINISH SCHEDULE AND NOTES. 5. HANDRAILS: MANUFACTURER'S STANDARD SATIN STAINLESS STEEL PIPE RAIL ON REAR
- 6. SILL: EXTRUDED ALUMINUM WITH GROOVED SURFACE, 1/4" THICKNESS.
- 7. PROTECTION PADS: FURNISH ONE (1) SET OF STUDS AND PROTECTION PADS PER ELEVATOR.

# D. <u>OPERATING SYSTEM</u>: AS DEFINED IN ASME A17.11. SIMPLEX

- ILLUMINATED HALL-CALL AND CAR-CALL BUTTONS: SATIN STAINLESS STEEL LOCATED BESIDE (NOT IN) DOOR FRAME.
- CONTROL STATION: RECESSED NO. 4 SATIN STAINLESS STEEL EMERGENCY COMMUNICATION SYSTEM: COMPLY WITH ASME A17.1 AND THE AMERICANS
- WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. 4. CAR POSITION INDICATOR: LOCATED IN CAB ABOVE CAR DOOR OR CAR CONTROL
- STATION. ALSO INCLUDE AUDIBLE SIGNAL TO INDICATE CAR IS EITHER STOPPING OR
- PASSING A FLOOR; INCLUDE DIRECTION ARROWS. 5. HALL LANTERNS WITH ILLUMINATED ARROWS: MATCH FINISH OF HALL PUSH BUTTON

HALL POSITION INDICATOR: MATCH FINISH OF HALL PUSH BUTTON STATIONS. MOUNT

- STATIONS. MOUNT ABOVE DOOR FRAME.
- ABOVE EACH HOISTWAY ENTRANCE AT GROUND FLOOR. DOOR REOPENING DEVICES, INFRARED ARRAY: UNIFORM ARRAY OF 36 OR MORE MICROPROCRESSOR-CONTROLLED INFRARED LIGHT BEAMS PROJECTING ACROSS CAR ENTRANCE. INTERRUPTION OF ONE OR MORE OF THE LIGHT BEAMS CAUSES DOORS TO

STOP AND REOPEN.

- INSTALLATION:
  1. DRILL HOLES AND INSTALL CYLINDER IN PROTECTIVE CASING WITHIN WELL HOLES OR
- CASINGS AFTER REMOVING WATER AND DEBRIS. ALIGN CYLINDER, ANCHOR SECURELY IN PLACE AT PIT FLOOR, AND FILL VOIDS WITH FINE
- 3. SEAL BETWEEN WELL CASING, PROTECTIVE CASING OR CYLINDER AND PIT FLOOR WITH 4" OF NONSHRINK, NONMETALLIC GROUT
- ADJUST ELEVATOR FOR 1/4" LEVELING TOLERANCE.
- 5. SET SILLS FLUSH WITH FINISH FLOOR AND FILL SPACE UNDER SILLS SOLID WITH NONSHRINK, NONMETALLIC GROUT.
- RESTORE ANY STAINLLESS STEEL FINISHES DAMAGED DURING CONSTRUCTION.

#### - END DIVISION 14 -

## **DIVISION 15 - MECHANICAL**

SEE MECHANICAL PLANS AND SPECIFICATIONS

# **DIVISION 16 - ELECTRICAL**

SEE ELECTRICAL PLANS AND SPECIFICATIONS

# **DIVISION 21 - FIRE SUPPRESSION**

283100 FIRE ALARM

- SEE ELECTRICAL PLANS FOR SPECIFICATION OF FIRE ALARM SYSTEMS.
- HORN/STROBE DEVICES: HORN/STROBE DEVICES SHALL BE "WHITE" AND SHALL BE CEILING MOUNTED TO MAXIMUM EXTENT FEASIBLE; WALL-MOUNTED WHERE NECESSARY.

# 210500 FIRE SUPPRESSION SYSTEMS

GYPSUM BOARD CEILINGS.

- SEE MECHANICALPLANS FOR SPECIFICATIONS OF FIRE SUPPRESSION SYSTEMS SUBMITTALS: SHOP DRAWINGS INDICATING LAYOUT AND PROPOSED HEIGHTS OF PIPING AND HEADS, AND PRODUCT DATA FOR VALVES, HEADS, AND ALARMS, INCLUDING CALCULATIONS. SUBMIT REQUIRED NUMBER OF SETS TO AUTHORITIES HAVING JURISDICTION FOR REVIEW,
- COMMENT, AND APPROVAL. SPRINKLER HEADS AND ESCUTCHEONS: IN SUSPENDED ACOUSTICAL TILE CEILINGS, SPRINKLER HEADS SHALL BE PENDANT SEMI-RECESSED CHROME PLATED WITH CHROME PLATED ESCUTCHEONS. IN GYSPUM BOARD CEILINGS SPRINKLER HEADS SHALL BE CONCEALED WITH
- WHITE ENAMEL COVERS. LAYOUT: SPRINKLER HEADS SHALL BE LAID OUT TO FALL IN "CENTER-OF-TILE" WHEN INSTALLED IN SUSPENDED ACOUSTICAL TILE CEILINGS AND SHALL BE LAID OUT SYMMETRICALLY IN



# PARAGON STAR

PARAGON STAR FIRST PLAT, LOT 9 LEE'S SUMMIT, MO

10 25 19

Project No.: 19050.01

Date:		10.25.19		
Issued For:		SHELL - CD SET		
		REVISIONS		
NI.	Data			
NO.	Date	Description		

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE CIVIL GBA LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON



7007 College Blvd, Suite 415 Overland Park, Kansas 66211 913+498-1550

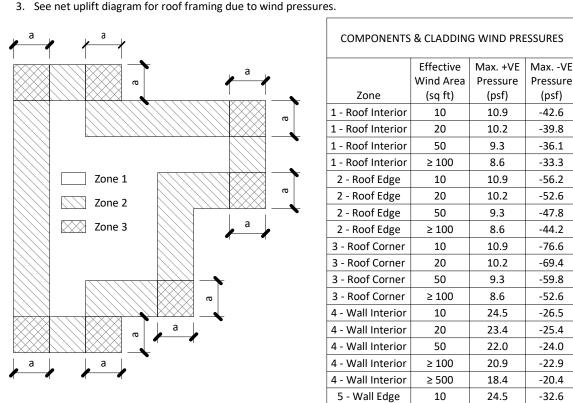
**PROJECT SPECIFICATIONS** 

SHEET TITLE

Roof Loads:		Wind Loads:		Seismic Loads:	
<ul> <li>Dead Load:</li> </ul>	20 psf	<ul> <li>Occupancy:</li> </ul>	Ш	• le:	1.25
<ul><li>Live Load:</li></ul>	20 psf	<ul><li>Velocity:</li></ul>	118 mph	• Ss:	0.098 g
		<ul><li>Exposure:</li></ul>	В	• S1:	0.068 g
Floor Loads:		• lw:	1.0	• Site Class:	D
<ul> <li>Dead Load:</li> </ul>	48 psf			• Sds:	0.105 g
<ul> <li>Office Live:</li> </ul>	80 psf	Snow Loads:		• Sd1:	0.109 g
		<ul> <li>Pg:</li> </ul>	20 psf	<ul> <li>Seismic Design Category:</li> </ul>	В
		• Pf:	22 psf	<ul> <li>Seismic Force- Resisting System</li> </ul>	: S.O.M.F.
		• Ce:	0.9	Design Base Shear:	CsW
		• ls:	1.1	• Cs:	0.0373
		• Ct:	1.0	• R:	3.5
		Drift Load:	Per Plan	<ul> <li>Analysis Procedure Used:</li> </ul>	E.L.F.P.
Dosian Loodina N	lotoc				

#### Design Loading Notes: 1. Dead load shown includes collateral load of 4 psf.

2. See components and cladding table for design wind pressures.



	4 - Wall Interior	2 300	10.4	-20.4
	5 - Wall Edge	10	24.5	-32.6
Components & Cladding Wind Zone Diagram	5 - Wall Edge	20	23.4	-30.5
The components & cladding (C&C) wind pressures shown	5 - Wall Edge	50	22.0	-27.6
assume a mean roof height of 38'-0" above finished floor	5 - Wall Edge	≥ 100	20.9	-25.4
elevation. All components shall be designed to resist the	5 - Wall Edge	≥ 500	18.4	-20.4
provided pressures, which shall be clearly defined on all shop				

surfaces, respectively. 2. The components & cladding wind zone diagram is generalized to show all possible conditions. The diagram shape may not match the specific layout for this project.

drawings. Refer to wind zone diagram for zone locations. Plus

and minus signs signify pressures acting toward and away from

3. a = 22'-8"

4. Internal Pressure Coefficient = ±0.18

1. The structural systems shown on these documents have been designed for the final, in place usage of the structure based on the intended occupancy and code requirements. While general constructability has been considered, the structural systems have not been designed to accommodate specific construction means and methods that might be utilized by the Contractor.

2. The Contractor shall field verify all existing dimensions prior to fabrication.

3. The Contractor shall notify the Engineer of any observed discrepancies in dimensions, detailing, or other items as shown on the plans or specified prior to proceeding with work relating to said discrepancies.

4. The Contractor shall not alter or modify work shown on the structural drawings without receiving written

approval from the Engineer. 5. The Contractor shall be responsible for supplying shop drawings for joist girders, bar joists, structural steel,

metal deck, reinforcing steel and concrete mix designs. Shop drawings must be reviewed for conformance with the means, methods, techniques, sequences, and operations of construction, and safety precautions and programs incidental thereto, all of which are the sole responsibility of the Contractor, and shall be stamped "approved" by the Contractor prior to submittal. Shop drawings submitted without the Contractor's stamped approval will be returned "rejected". All shop drawings shall be reviewed by the Structural Engineer prior to

6. See architectural, mechanical, and electrical drawings for other pertinent information related to the structural work and coordinate as required. These structural drawings are intended to be included in a complete set of construction documents, including but not limited to, architectural drawings, civil drawings, and mechanical/electrical/plumbing drawings. Contractor shall verify coordination of these drawings with contents of above drawing sets specified and only proceed with bidding and construction after such has taken place.

7. The building and the independent structural components shown in these documents are not structurally stable until all connections, framing, shear walls, diaphragms, permanent bracing, metal decking, interior and exterior concrete slabs on grade, and exterior or interior load-bearing walls are complete and have achieved their design strength. Contractor is solely responsible for maintaining structural stability during erection and construction. Temporary bracing systems shall remain in place until all structural work is complete.

8. The Contractor is responsible for verifying all existing dimensions and conditions of the existing building and reporting discrepancies from the assumed conditions shown on the structural drawings to the Engineer of record prior to fabrication and erection of any member.

9. The Contractor shall coordinate the roof drainage system with the Architect as required to ensure that no more than 3 1/2" of water can accumulate before entering an overflow drainage system.

# Structural Engineer Site Observations:

1. The contract structural drawings & specifications represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.

2. The Engineer shall not have control nor charge of and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions & programs in connection with the work, for the acts or omission of the Contractor, subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.

3. Periodic site observation by field representatives of BSE Structural Engineers LLC. is solely for the purpose of determining if the work of the Contractor is proceeding in general accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of work, but rather periodic in an effort to guard the Client against defects or deficiencies in the work of the Contractor.

# Slab On Grade:

1. Welded wire fabric shall be supplied in sheets only. Rolls will not be permitted. (As required on construction

2. Welded wire fabric shall be supported on chairs or blocks prior to concrete placement. Mesh shall not be hooked and pulled up during concrete placement. (As required on construction documents.)

3. Welded wire fabric shall have end and edge laps of one full mesh plus 2" between cross wires. Wire all laps securely together.

4. Welded wire fabric shall conform to ASTM A1064.

5. Floor finish requirements: Slab-on-grade shall be finished to overall floor flatness, overall floor levelness, local floor flatness, and local floor levelness requirements as defined by the Owner. Coordinate requirements as required with G.C. prior to slab-on-grade placement. Floor finish requirements to be determined in accordance with ASTM E

# Foundations:

Foundations for this project have been designed in accordance with requirements set forth in a geotechnical report prepared by Terracon Consultants (Project #02195181 Drilled Shafts dated August 2, 2019.) Drilled shafts have been designed for an allowable soil bearing value of 40,000 psf. The Contractor shall refer to the

2. Anchor rods shall conform to ASTM F1554 Gr. 36 (U.N.O.) and shall be located by means of a template. Provide a nut above and below template to assure proper vertical alignment.

Geotechnical Report for all requirements and recommendations pertinent to this project.

3. All foundations shall be square and level.

4. Grout shall be dry and stiff to prevent shrinkage, with a minimum compressive strength of 4000 psi. Grout below column base plates and precast panels as required. Thoroughly compact grout beneath base plates.

#### Concrete and Reinforcing Steel:

1. Concrete mix designs shall meet the following requirements:

	Minimum	Max.	Max.		
	Compressive	Aggregate	Water/Cement	Slump	
Location	Strength (psi)	Size	Ratio	(in.)	Air Entrainment (%)
Interior Slabs	4000	3/4"	0.50	4 ± 1	0
Exterior Slabs	3500	3/4"	0.50	4 ± 1	6 ± 1
Interior Foundations	3000	1"	0.50	4 ± 1	0
Perimeter Foundations	3000	1"	0.50	4 ± 1	6 ± 1
Exterior Walls & Pedestals	4000	3/4"	0.50	4 ± 1	6 ± 1
Composite Floor Slab	4000	1/2"	0.48	4 ± 1	0
Interior Pier Caps	5000	1"	0.50	4 ± 1	0

2. Fly ash shall not be used unless approved in writing by the Engineer. Fly ash, if approved, shall conform to ASTM C618 and ACI 232.2R-96. Fly ash shall be limited to types C & F and shall not exceed 15% of the total cement wt. 3. The use of admixtures to increase the slump shall not be used unless approved in writing by the Engineer.

shown with same steel as in similar sections or areas. 5. Construction joints in grade beams shall be at midspan unless noted otherwise. Reinforcing steel shall be

4. All concrete is reinforced unless specifically called out as unreinforced. Reinforce all concrete not otherwise

continuous through construction joints unless noted otherwise. 6. No aluminum items shall be embedded in any concrete or placed in contact with concrete.

7. Reinforcing bars #4 and larger (except ties and stirrups) shall meet ASTM A615 with Supplementary

Requirements (S1), Grade 60. Smaller bars shall be Grade 40. 8. Concrete coverage of reinforcement shall have the following clear distances unless noted otherwise on the

Cast against earth: 3"

10.9

a = 22'-8"

= 5 psf

= 10 psf

Net Uplift diagram for Joists & Joists Girders

(Pressures shown are service level.)

Formed concrete exposed to earth or weather: 2"

Not exposed to earth or weather: 1" Slabs, 1 1/2" Beams and columns

9. Embedded and all reinforcing bars marked continuous shall be embedded to develop the full tensile capacity of the bar. Laps shall be Class B tension laps unless specified otherwise on the drawings. Unless shown otherwise, splice top bars near midspan and splice bottom bars over supports.

beams, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply governing building code to meet 100 psf design live load. three (3) - #4 vertical support bars for corner bars.

11. All bars are to be supported in forms and spaced with wire bar supports per ACI "Manual of Standard Practice for Detailing Concrete Structures" (latest edition). Bars shall be securely wired per the latest edition of CRSI's "Recommended Practice for Placing Reinforcing Bars." Accessories for exposed concrete shall be plastic or shall have

12. Concrete placed during cold weather shall conform to the requirements of the most recent version of ACI 306R. Cold weather is defined as a period when, for more than 3 successive days, the mean daily temperature drops below

13. Concrete placed during hot weather shall conform to the requirements of the most recent version of ACI 305R. Hot weather is defined as that combination of air temperature, concrete temperature, relative humidity and wind speed that will cause a rate of evaporation of 0.2 lb/sq.ft./hr. or more as defined by Figure 2.1.5 of ACI 305R. 14. Do not add water to concrete during delivery, at Project Site, or during placement, unless approved by the

15. Provide 3/4" chamfer on all exposed corners unless noted otherwise on architectural or structural construction

16. All cold joints shall be roughened and cleaned unless noted otherwise.

17. Vertical control joints in walls shall be placed at 30'-0" maximum spacing unless noted otherwise. Locate joints beside piers monolithic with walls, near corners, and in concealed locations where possible. Construction joints may be placed in lieu of control joints at contractors discretion. Coordinate location of control joints with Architect.

18. Refer to the geotechnical report for behind wall drainage recommendations. G.C. to coordinate with civil drawings as required. Refer to architectural drawings for foundation waterproofing and insulation requirements. Post-Installed Anchors:

1. Post-Installed anchors shall only be used where specified in the construction documents or approved by the

2. The Contractor shall obtain written approval from the Engineer prior to installing post-installed anchors for misplaced-placed anchors.

3. Care shall be taken with placing post-installed anchors to avoid damaging existing reinforcement.

All adhesive anchoring systems referred to in these drawings shall be one of the following:

4. The holes shall be drilled and cleaned in accordance with the manufacturer's specifications. 5. Post-installed anchors shall meet ACI 318 Appendix D criteria. The following are acceptable post-installed anchors:

a. Hilti HIT HY 200 b. Powers AC100+ Gold c. Simpson Strong-Tie SET-3G d. Or Approved Equivalent

All screw anchors referred to in these drawings shall be one of the following: b. Powers Wedge Bolt+ c. Simpson Strong-Tie Titan HD

d. Or Approved Equivalent

1. Mortar shall be Type S for all masonry work and must achieve a minimum compressive strength of 1800 psi at the 28-day test. Masonry units shall have a minimum strength of f'm = 1900 psi.

2. Masonry grout shall be a coarse-type grout and must achieve a minimum compressive strength of 2000 psi at the 28-day test. Slump shall range from 8" minimum to 10" maximum. Grout materials and proportions shall conform to

3. All masonry shall be reinforced with horizontal 9 gauge truss type reinforcement at 16" o.c. vertical or as shown

4. Vertical reinforcing shall be installed as noted on the drawings. Reinforcing bars shall be lapped as specified on the design drawings. If no lap length is shown, contact the Engineer. 5. Vertical control joints in masonry shall be 3/8" wide, full height of wall at locations shown on the Architectural drawings. Joints shall be spaced at a maximum of 25'-0" apart and coordinated with the Architect. All horizontal

joint reinforcing shall be discontinuous at masonry control joints. Refer to typical details for additional information 6. Lintels over openings shall be installed as indicated on the drawings. If no lintels are indicated, notify the

7. Provide at least (1) vertical rebar at each end of each wall, side of control joints, jambs, corner, and intersection of all reinforced masonry walls. Size of rebar to match the size of typical vertical reinforcing shown.

8. Provide (1) corner bar at each horizontal bond beam. Size of rebar to match typical bond beam reinforcing shown. 9. Submit shop drawings including plan and elevation views of reinforced masonry walls including bond beams, control joints, expansion joints, and lintels.

10. All steel beams bearing on masonry shall have (3) cores minimum grouted full directly below the bearing locations unless noted otherwise.

11. All bond beam reinforcing shall continue through control joints.

12. All cells containing reinforcement, bolts, or other metal anchors shall be grouted solid. Any cells below grade shall be grouted solid whether reinforced or not.

## Structural Steel:

1. All structural steel shall conform to the following (U.N.O.):

Structural Steel Wide Flanges: ASTM A992 Miscellaneous Steel: ASTM A36 Structural Tubing: ASTM A500, Grade C (Fy = 50 ksi) Steel Pipe: ASTM A53, Type E or S, Grade B

2. Bolts shall be as follows (U.N.O.):

Connection Bolts: Anchor Rods: ASTM F1554, Grade 36 ASTM A108, Grade 1015 through 1020 Shear Studs:

ASTM A325

3. Welding shall conform to the latest publication of applicable codes set forth by the American Welding Society. Welding electrodes shall be E70XX. 4. All exterior steel exposed to weather shall be hot-dipped galvanized and/or painted per Architect unless noted

5. Weld all joists to supporting members with 1/8" x 2" long fillet welds on each side of the joist. In steel frames, where columns are not framed in at least two directions with structural steel members, joists at column lines shall be

field-bolted at the columns to provide lateral stability during construction. 6. All roof bar joists shall be designed for uplift as stipulated by the applicable building code. Extra bracing shall be

added as required, and the joist manufacturer shall certify that the joists have been designed for reverse bending 7. All bar joists shall be designed to resist loads induced by fascia panel bracing members.

8. All bar joists shall have horizontal bridging as recommended by the Steel Joist Institute. Provide rigid "X" bridging in addition to horizontal bridging where horizontal bridging is discontinuous, unless horizontal bridging is connected to a wall at the top and bottom of the joist. Refer to the plans for other locations of "X" bridging. The erector shall follow the latest requirements of the Steel Joist Institute regarding additional bolted "X" bridging required for erection stability.

9. All pipe hangers supporting more than 100 lbs. and being supported from steel bar joists or joist girders shall be hung from top chords and within 2" of web panel points. If interferences exist that will not allow pipe to be hung in this manner, the Contractor shall notify the Engineer for required modifications.

10. All openings in the roof shall be framed with a 4 x 4 x 1/4 angle minimum, unless noted otherwise. Mechanical units shall be supported with structural steel frames as required. If framing is not shown for mechanical units, notify

10. Supply corner bars 4'-0" long (min. 2'-0" in each direction) in outside face of wall at corners of all walls and grade 11. All steel stairs, excluding the main stair, shall be designed by the steel stair manufacturer in compliance with the

<u>Light Gauge Metal Framing:</u> 1. All light gauge structural studs, track and accessories shall be designed in accordance with the latest edition of the American Iron and Steel Institute (AISI) "Specification for the Design of Cold-Formed Steel Structural Members,"

and shall be of type, size, gauge and spacing shown on the drawings. 2. All 16 gauge and heavier studs and joists shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A446, with a minimum yield strength of 50 ksi. All 18 gauge and lighter studs, joists, track and accessories shall be formed from corrosion-resistant steel corresponding to the requirements of ASTM A446, with a minimum yield strength of 33 ksi.

3. Prior to fabrication of framing, the Contractor shall submit fabrication and erection drawings to the Architect/Engineer for approval.

4. Prefabricated panels shall be square, with components attached in a manner to prevent racking and minimize distortion while lifting. The Contractor shall provide temporary bracing where required.

5. All framing components shall be cut squarely for attachment to perpendicular members, or as required, for angular fit against abutting members. Splicing of axial loaded members is not permitted.

6. Axially loaded studs shall be installed in a manner which will assure that their ends are positioned against the inside of the track web prior to fastening. Studs shall be securely fastened to both flanges of the top and bottom

. Fastening of components shall be with self-drilling screws or welding. Wire tying of components shall not be permitted. Screws shall be of sufficient size to ensure the strength of connection. All connections shall be made with a minimum of (2) #10 screws or 1/8" fillet weld two inches long. All welds shall be touched up with a zinc-rich

8. Tracks shall be securely anchored to the supporting structure as shown on the drawings. Abutting lengths of tracks shall be securely anchored to a common structural element, butt-welded or spliced together.

9. Wall stud bridging shall be attached in a manner to prevent stud rotation. Bridging rows shall be spaced according to manufacturer's specifications or recommendations. 4'-0" maximum spacing between rows of bridging.

10. Provision for structure vertical movement shall be provided where indicated on the drawings. 11. Minir

Minimum Design	Design Thickness	Inside Corner	Gauge No.
Thickness (in.)	(in.)	Radius (in.)	(Reference Only)
18	0.0188	0.0843	25
27	0.0283	0.0796	22
30	0.0312	0.0781	20 - Drywall
33	0.0346	0.0764	20 - Structural
43	0.0451	0.0712	18
54	0.0566	0.0849	16
68	0.0713	0.1069	14
97	0.1017	0.1525	12

NOTE: Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on Section A3.4 of the 1996 AISI Specification.

#### Special Inspector:

1. The following items require special inspection in accordance with the building code. a. Reinforced masonry construction - level 1 inspection b. Concrete & masonry grout design mix

c. Placing of concrete & reinforcing steel d. Bolts & anchors embedded in concrete & masonry e. Concrete formwork f. Structural steel fabrication g. Structural steel bolting & welding h. Inspection of roof & deck attachment I. Post installed anchors in masonry & concrete

J. In-situ soils, excavations, filling & compaction 2. The Contractor shall request special inspection of the items listed above prior to those items becoming inaccessible & unobservable due to progression of the work.

3. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. 4. The Special Inspector shall observe the work assigned for conformance with the approved design drawings

5. The Special Inspector shall furnish inspection reports to the Building Official, the Engineer and Architect of record, and other designated persons. All discrepancies shall be brought to the immediate attention of the Contractor for correction, then if uncorrected, to the proper design authority and to the Building Official.

6. The Special Inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the governing building codes.

1. The Inspector must verify that the preparation of the natural ground and the placement of engineered fill is performed in accordance with the GEOTECHNICAL engineer's recommendations as stated in the GEOTECHNICAL

2. The Inspector must monitor the placement of all fill to determine whether the type of material, moisture content, and degree of compaction are within the recommended limits contained in the GEOTECHNICAL report. Proceed with subsequent earthwork only after test results for previously completed work comply with recommended limits contained in the GEOTECHNICAL report.

3. All Subgrade supporting footings and slabs must be inspected immediately prior to the placement of reinforced concrete.

4. Paved and building slab areas shall be tested at Subgrade and at each compacted fill and backfill layer, at least once for every 2000 sq. ft. or less of paved or building slab areas, but in no case fewer than 3 tests. 5. Foundation wall backfill shall be tested at each compacted initial and final backfill layer, at least once for each

100 ft. or less of wall length, but no fewer than 2 tests. 6. Trench backfill shall be tested at each compacted initial and final backfill layer, at least once for each 150 ft. or

7. Test compaction of soils-in-place in accordance with ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 8. Test Reporting: Test results must be reported to BSE and the general contractor in writing within 24 hours

less of trench length, but no fewer than 2 tests.

after testing, via fax. Reports must contain the project name, the date of the test and the location of the test.

1. Strength test cylinders shall be prepared for each day's pour of each concrete mix and at a minimum frequency of every 50 cu. yd. on all concrete placed. Conform to ASTM C39. 2. Four (4) test cylinders are to be made and cured on site for the first 24 hours. Test one of the specimens at 7

days and two at 28 days. Hold the fourth specimen in reserve for later testing if needed. 3. Slump, air content and temperature tests shall be conducted at a minimum when strength specimens are made

and at any other times as specified by the Engineer. 4. Perform slump tests on a representative concrete sample at the point of discharge. Perform additional tests when concrete consistency seems to have changed. The maximum allowable field slump is 5 inches. Conform to

5. Perform air content tests on all concrete specified to be air-entrained. Conform to ASTM C231.

6. Perform a temperature test every hour when air temperature is 40°F and below, or when air temperature is 80°F and above. Conform to ASTM C 1064.

7. Prior to the closing of forms or the delivery of concrete to the job site, the inspector shall verify that the reinforcing steel is in conformance with the city-approved plans, specifications and shop drawings. The inspector shall confirm that the reinforcing steel is of the correct size and grade and ensure that the proper spacing, clearances, splice lengths and embedded items have been provided. All reinforcing steel shall be in place prior to the placement of concrete and be secured against displacement.

8. The Inspector shall verify that the bolt size, location and embedment length of all anchor bolts are in conformance with the city-approved plans, specifications and shop drawings.

9. Anchor rods 3/4" Ø or smaller may be floated in place following concrete placement, provided that anchor bolts are worked easily by hand into the fresh concrete to allow for full contact with the shank of the bolt. Bolts shall be placed by means of a template and shall be worked into concrete in vertical alignment. 10. Test Reporting: Test results must be reported to BSE and the General Contractor in writing within 24 hours after

testing, via fax or email. Reports of compressive strength tests must contain the project name, the date of concrete placement, the location of concrete placement within the structure and the concrete mix design being used. Structural Steel:

1. Bolts: Bolts that are not identified as being slip-critical nor in direct tension need not be inspected other than to verify that the plies of connected elements are brought into snug-tight condition in properly-aligned holes. 2. Field Welding: Inspection is required for single-pass fillet welds, multi-pass fillet welds, complete- and partialpenetration groove welds, floor and roof deck welding, and stairs and railing systems. Prior to the start of the work, materials, qualifications of welding procedures and welder qualifications shall be verified. Provide continuous or

periodic inspection of the structural welding as indicated in Table 1704.3 of the referenced IBC. Inspections may occur periodically, as defined below. A visual inspection to ensure proper type, size, length and quality of all field welds is required prior to work being concealed by other materials. 3. Periodic inspection: "Periodic" is defined as generally once a week at a minimum, and more often as needed to observe work requiring inspections, as outlined above, prior to being covered by subsequent construction.

connector stud welds shall be visually inspected. Bend tests shall be performed if visual inspections reveal less than a 360-degree flash or welding repairs to any shear connector stud. 5. Structural steel bar joists and metal buildings fabricated on the premises of a facility/plant not certified by a

4. Shear connector stud welds will be inspected and tested according to AWS D1.1 for stud welding. Shear

6. Test Reporting: Test results must be reported to BSE and the General Contractor in writing within 24 hours of testing, via fax or email. Reports must contain the project name, the date of the test and the location of the test.

nationally recognized organization, shall have in-plant special inspections. AISC, ICBO, CWB and SJI are certified

1. Mortar properties, grout, brick, concrete masonry unit and prism tests and evaluations are to be performed during construction for each 5,000 sq. ft. of wall area or portion thereof.

2. Mortar properties are to be tested per ASTM C 780.

prior to closing cleanouts, and during all grouting operations.

3. Grout will be sampled and tested for compressive strength per ASTM C 1019.

4. Brick tests for each type and grade of brick indicated are to be performed according to ASTM C 67. 5. Concrete masonry unit tests for each type of concrete masonry unit indicated are to be performed per ASTM C

6. Masonry prisms are to be tested per ASTM C 1314. Prepare one (1) set of prisms for testing at 7 days and one (1)

set for testing at 28 days. 7. Special inspection of masonry construction is required during preparation and taking of any required prisms or test specimens, placing of all masonry units, placement of reinforcement and inspection of grout space immediately

8. Test Reporting: Test results must be reported to BS and the general contractor in writing within 24 hours of

Туре	Continuous Special Inspection	Periodic Special Inspection	Referenced Star	
Material verification of cold-formed steel deck:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	х	Applicable AS material standa	
b. Manufacturer's certified test reports.	-	Х		
2. Inspection of welding and attachment:				
a. Cold-formed steel deck:				
1. Floor and roof deck welds and other means of attachment.	-	х	AWS D1.3	
b. Reinforcing steel:				
1. Verification of edibility of reinforcing steel other than ASTM A 706.	-	х	AWS D1.4	
Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of	Х	-	ACI 318: Section 3.5.2	
concrete and shear reinforcement.	Х	-		
3. Shear reinforcement.	-	Х		
4. Other reinforcing steel.				

Туре	Continuous Special	Periodic Special	Referenced Standard
1 Installation of one or make steel inite and inite civalence.	Inspection	Inspection	
1. Installation of open web steel joist and joist girders:			CH Connection at the second
a. End Connections - welding or bolted.	-	Х	SJI Specifications listed in Section 2207.1.
b. Bridging - horizontal or diagonal.	-		
1. Standard bridging.	-	Х	SJI Specifications listed in Section 2207.1.
Bridging that differs from the SJI specifications listed in Section 2207.1.	-	х	
a. Where applicable, see also Section 1705.12, Special ins	pections for seisr	mic resistan	ce.
Required Special Inspections and Tests of Co	ncrete Construct	ion Per IBC	Table 1705.3
nequired openial inspectations and resist of ec			145.0 17 05.0
Туре	Continuous Special Inspection	Periodic Special Inspection	Referenced Standard
Inspect reinforcement, including prestressing tendons, and verify placement.	-	х	ACI 318 Chp. 20, 25.2, 25.3, 26.6.126.6.3.
<ol> <li>Reinforcing bar welding:</li> <li>Verify weldability of reinforcing bars</li> <li>other than ASTM A706</li> </ol>	-	х	AWS D1.4
b. Inspect single-pass fillet welds, maximum 5/16"; and	-	х	ACI 318: 26.6.4
c. Inspect all other welds.	X	-	
3. Inspect anchors cast in concrete.	-	Х	ACI 318: 17.8.2
4. Inspect anchors post-installed in hardened concrete members  a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.  b. Mechanical anchor and adhesive anchors not defined in 4.a.	X -	- X	ACI 318: 17.8.2.4 ACI 318: 17.8.2.
5. Verify use of required design mix.	_	x	ACI 318: Chp. 19,
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	x	-	26.4.3, 26.4.4  ASTM C172  ASTM C31  ACI 318: 26.4, 26.12
7. Inspect concrete and shotcrete placement for proper application techniques.	x	-	ACI 318: 26.5
8. Verify maintenance of specified curing temperatures and techniques.	-	Х	ACI 318: 26.5.3-26.5.5
<ul><li>9. Inspect prestressed concrete for:</li><li>a. Application of prestressing forces; and</li><li>b. Grouting of bonded prestressing tendons.</li></ul>	X X	- -	ACI 318: 26.10
10. Inspect erection of precast concrete members.	-	Х	ACI 318: Chp. 26.8
11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	х	ACI 318: 26.11.2
12. Inspect framework for shape, location and dimensions of the concrete member being formed.	-	х	ACI 318: 26.11.1.2(B)

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

Required Special Inspections and Tests of Soils Per IBC Table 1705.6

1. Verify materials below shallow foundations are adequate

2. Verify excavations are extended to proper depth and

record tip and butt elevations and document any damage to

5. For steel elements, perform additional special inspections in

perform tests and additional special inspections in accordance

7. For specialty elements, perform additional inspections as

6. For concrete elements and concrete-filled elements,

determined by the registered design professional in

oundation element.

with Section 1705.3.

responsible charge.

accordance with Section 1705.2.

to achieve the design bearing capacity.

Continuous

Inspection

Special

have reached proper material.	-	X
3. Perform classification and testing of compacted fill materials.	-	х
4. Verify use of proper materials, 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
Required Special Inspections and Tests of Driven Deep Foundat		
Туре	Continuous Special Inspection	Periodic Special Inspection
1. Verify element materials, sizes and lengths comply with the requirements.	х	-
Determine capacities of test elements and conduct additional load tests, as required.	х	-
3. Inspect driving operations and maintain complete and accurate records for each element.	х	-
4. Verify placement locations and plumbness, confirm type size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity,		

Туре	Continuous Special Inspection	Periodic Special Inspection
Inspect drilling operations and maintain complete and accurate records for each element.	х	-
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate endbearing strata capacity. Record concrete or grout volumes.	Х	-
3. For concrete elements, perform tests and additional special inspections in accordance with Section 1705.3.	-	-

Required Quality Control Inspections (GCI) & Quality Assurance Inspections

Туре	Frequency of Inspections	Referenced Standard
1. The fabricator's QCI shall inspect the following as a minimum, as		AISC 360 Chp. M & N
applicable:		TABLE N5.4-1
a. Shop welding, high strength bolting and details in	Per AISC	TABLE N5.4-2
accordance with AISC 360, Section N5.		TABLE N5.4-3
b. Shop cut and finished surfaces in accordance with AISC 360,	Per AISC	TABLE N5.6-1
section M2.		TABLE N5.6-2
c. Shop heating for straightening, cambering and curving in	Per AISC	TABLE N5.6-3
accordance with AISC 360, Section M2.1.		TABLE N6.1
d. Tolerances for shop fabrication in accordance with	Per AISC	Code of Standard
the Code of Standard Practice, Section 6.		Practice Sec. 6
<ul> <li>2. The erector's QCI shall inspect the following as a minimum, as applicable: <ul> <li>a. Field welding, high strength bolting and details in accordance with AISC 360, Section N5.</li> <li>b. Steel deck and headed steel stud anchor placement and attachment in accordance with AISC 360, Section N6.</li> </ul> </li> </ul>	Per AISC Per AISC	AISC 360 Chp. M&N TABLE N5.4-1 TABLE N5.4-2 TABLE N5.4-3
c. Field cut surfaces in accordance with AISC 360, Section M2.2.	Per AISC	TABLE N5.6-1 TABLE N5.6-2
d. Field heating for straightening in accordance with AISC 360, Section M2.1.	Per AISC	TABLE N5.6-3 TABLE N6.1
<ul> <li>e. Tolerances for field erection in accordance with the Code of Standard Practice, Section 7.13.</li> </ul>	Per AISC	Code of Standard Practice Sec. 6
3. QAI shall be performed by others. All required inspection and non-destructive testing, as applicable, shall be in accordance with AISC 360	Per AISC & IBC	AISC 360 Chp. M&N

	ABBREVIATIONS LIST		SHEET LIST
		Sheet	
	AND	Number	Sheet Name
	AT	\$0.0	GENERAL NOTES
	DEGREES	S0.1	ISOMETRIC
	EQUALS	S0.2	OVERALL PLAN
	FEET CREATER THAN	S1.1	FOUNDATION PLAN - WES
	GREATER THAN GREATER THAN OR EQUAL TO	S1.1	FOUNDATION PLAN - EAS
	INCHES	_	2ND FLOOR FRAMING PLAN -
	LESS THAN	S2.2	2ND FLOOR FRAMING PLAN -
	LESS THAN OR EQUAL TO	S2.3	ROOF FRAMING PLAN - WE
	MINUS, NEGATIVE	S2.4	ROOF FRAMING PLAN - EA
	PLUS	S2.5	MAIN STAIR FRAMING
_	PLUS OR MINUS	S3.1	TYPICAL FOUNDATION DETA
.F -	ABOVE FINISHED FLOOR	S3.2	FOUNDATION DETAILS
CH.	ALTERNATE ARCHITECT	S3.2	FOUNDATION DETAILS
)G.	BUILDING	54.1	TYPICAL FRAMING DETAIL
	BEAM	54.1 S4.2	TYPICAL FRAMING DETAIL
.S.	BOTTOM OF STEEL	_	
TT.	BOTTOM	S4.3	TYPICAL FRAMING DETAIL
	CONTROL/CONSTRUCTION JOINT	S4.4	TYPICAL MASONRY DETAILS
	CENTER LINE	S4.5	FRAMING DETAILS
1.U.	CONCRETE MASONRY UNIT	S4.6	FRAMING DETAILS
ŝ. ₹.	CEILING CLEAR	S4.7	FRAMING DETAILS
۱. ا	COLUMN	S4.8	FRAMING DETAILS
NC.	CONCRETE	S4.9	FRAMING DETAILS
NT.	CONTINUOUS		
ORD.	COORDINATE		
₹.	CENTER		
۱.	DIAMETER		
/G.	DOWN	MA	TERIALS LEGEND
d.	DRAWING EXPANSION JOINT		
.R.	ENGINEER OF RECORD		
	EACH	ALUMINUM	
	ELEVATION	CONCRETE	Δ Δ
V.	ELEVATION	CONCRETE	
G.	ENGINEER	EARTH	
	EQUAL		
UIP.	EQUIPMENT ET CETERA	GRAVEL	
ST.	EXISTING		
	EXTERIOR	GROUT	
	FACE	GYPSUM	-» , , , , , , , , , , , , , , , , , , ,
.E.	FOOTING BEARING ELEVATION	GTF30W	- 1 4 M 1 4 Y
Ε.	FINISHED FLOOR ELEVATION	INSULATION - RIC	GID
•	FAR SIDE FOOT/FEET		
à.	FOOTING/FOUNDATION	MASONRY - BRIC	κ /////
	GENERAL CONTRACTOR		
LV.	GALVANIZED	MASONRY - CMU	
Р.	GYPSUM	DIVIMOOD	
RIZ.	HORIZONTAL	PLYWOOD	
r	INCHES	STEEL	
E.	JOIST BEARING ELEVATION JOINT	0.222	
	KIPS PER SQUARE INCH	TILT / PRE-CAST	4
	KIPS		4 . 4
	LINEAR FEET	C\/A 4	DOLCIFOEND
	POUND	SYIVI	BOLS LEGEND
l ,	LONG LEG HORIZONTAL		
D N/I	LONG LEG VERTICAL		DETAIL
3.M. = p	METAL BUILDING MANUFACTURER MECHANICAL FLECTRICAL PLLIMBING	01	DRAWING NUMBER

MECHANICAL ELECTRICAL PLUMBING

MINIMUM

DIAMETER

N.T.S. NOT TO SCALE

PLATE

RADIUS

REINFORCED

SOUARE FEE

REQUIRED

SIMILAR

SPACING

SQUARE

SPECIFICATION

TOP OF CONCRETE

TOP OF FOOTING

U.N.O. UNLESS NOTED OTHERWISE

TOP OF STEEL

TOP OF WALL

THROUGH

TYPICAL

VERTICAL

WEIGHT

WITHOUT

WITH

W.W.F. WELDED WIRE FABRIC

REINF.

SPA.

SPEC.

T.O.C.

T.O.F.

T.O.S.

T.O.W.

THRU.

TYP.

VERT.

WT.

W/

W/O

REQ'D.

MISCELLANEOUS

P.E.M.B. PRE-ENGINEERED METAL BUILDING

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

NOT APPLICABLE

— DRAWING NUMBER — SHEET NUMBER - AREA OF DETAIL ELEVATION - DRAWING NUMBER -SHEET NUMBER **SECTION** 

— DRAWING NUMBER

BEAM DESIGNATION

- SHEAR STUD COUNT

BEAM TYPE & SIZE

— COLUMN SIZE

— COLUMN TYPE

**COLUMN DESIGNATION** 

FOOTING DESIGNATION

BEARING ELEVATION

PIER DESIGNATION

— TOP OF PIER ELEVATION

— FOOTING MARK

**COLUMN GRID** 

-GRID DESIGNATION

MOMENT CONNECTION

**REVISION DESIGNATION** 

JOIST BEARING ELEVATION

**SLAB THICKNESS TRANSITIO** 

NORTH ARROW

FOOTING MARK

— CAMBER OF BEAM IN INCHE

PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE CIVIL HOERR SCHAUDT / LANDSCAPE

FOUNDATIONS

STRUCTURAL

BSE STRUCTURAL

BSE STRUCTURAL

ENGINEERS

**ENGINEERS** 

1132 West 79th Street

Lenexa, Kansas 66214

www.BSEstructural.com

Project Number 19-354

Phone 913.492.7400

PARAGON STAR

PARAGON STAR

LEE'S SUMMIT, MC

REVISIONS

REGISTRATION

Issued For: SHELL - CD SET

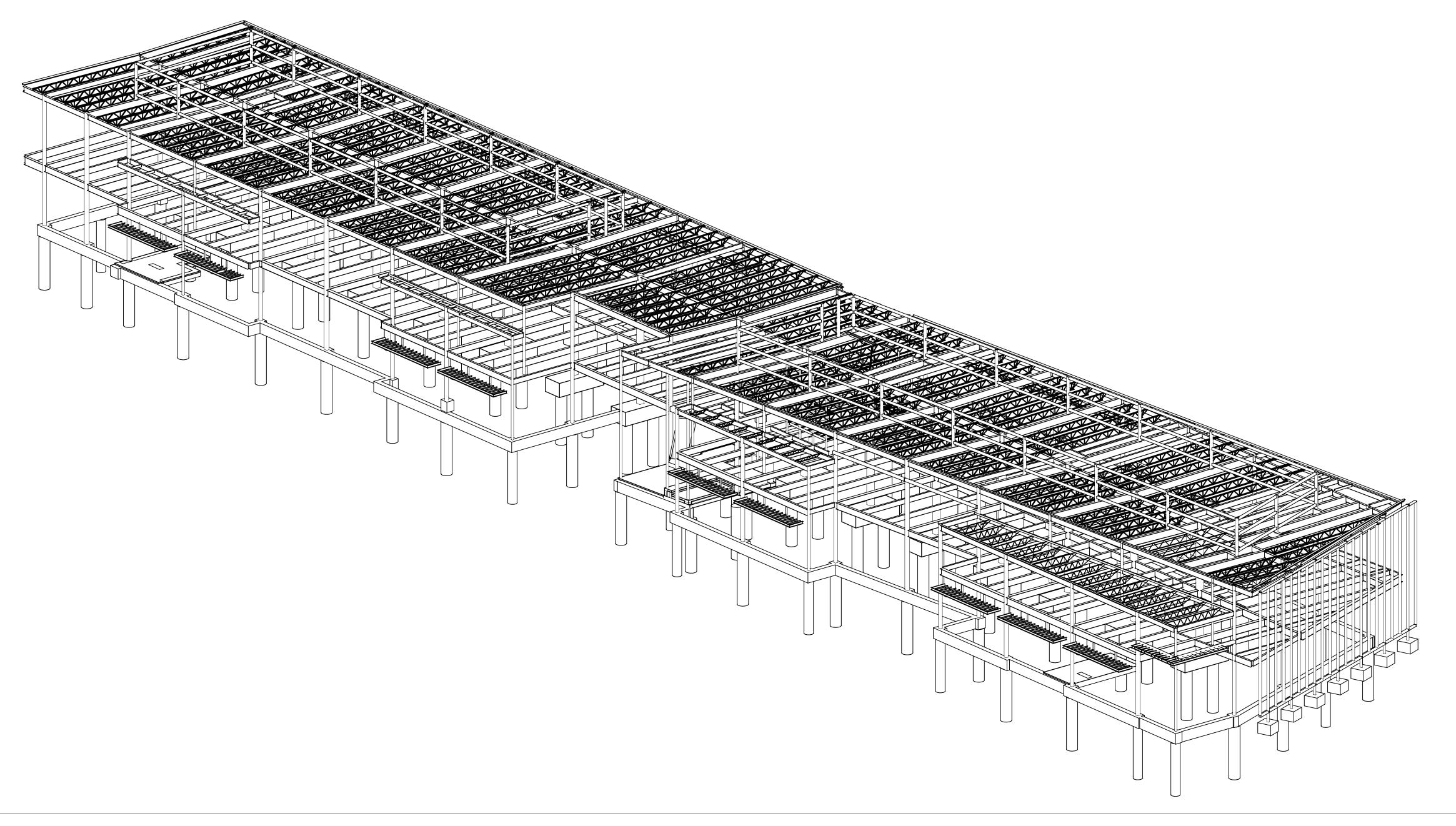
PLUMBING HENDERSON **ENGINEERS MECHANICAL** HENDERSON **ENGINEERS** HENDERSON ELECTRICAL

CONTRACTOR FOGEL ANDERSON

FIRE PROTECTION FIRE PROTECTION

SHEET TITLE

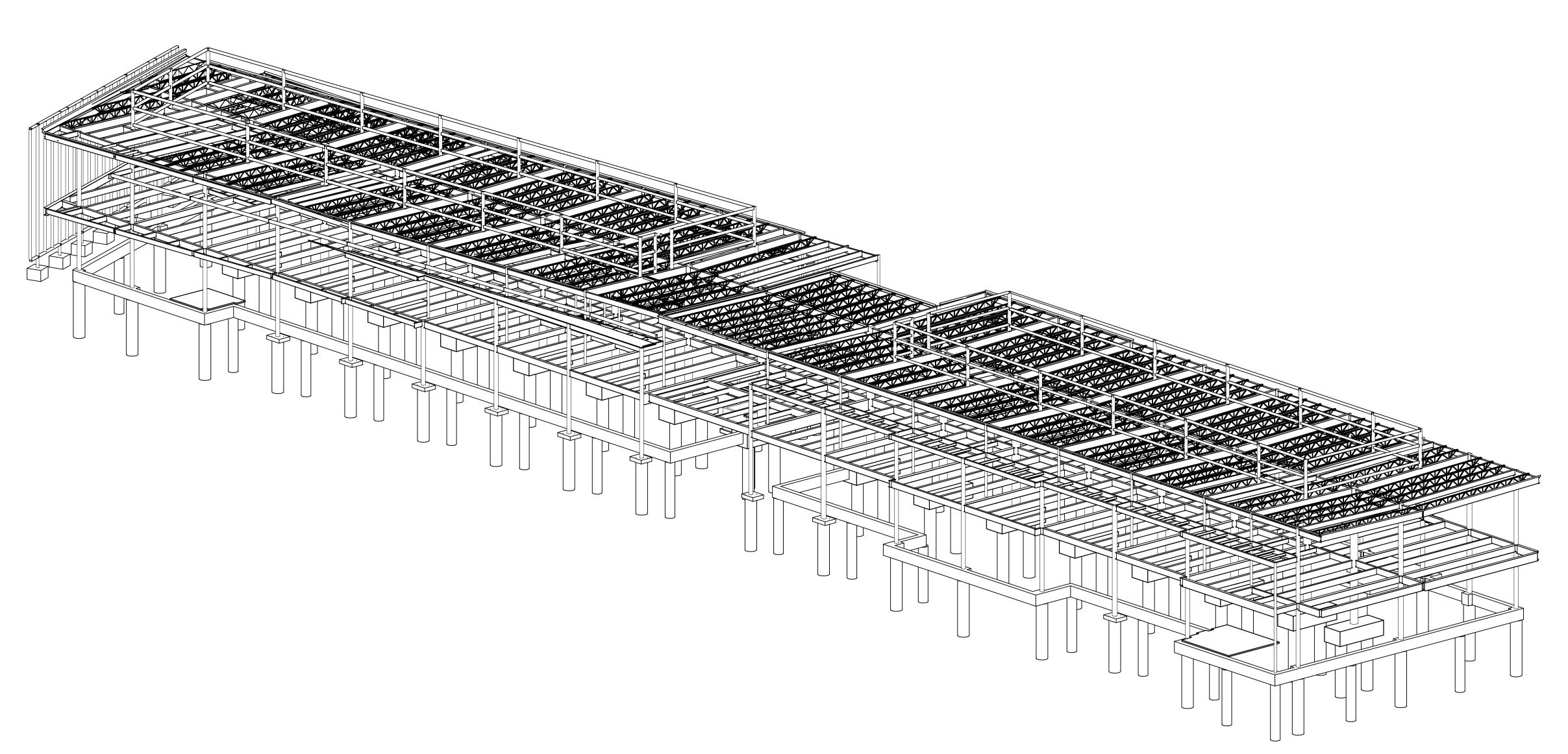
**GENERAL** 



<u>NC</u>

1.) ISOMETRIC VIEWS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. ACTUAL CONSTRUCTION TO MATCH CONSTRUCTION DOCUMENTS. REFERENCE ARCHITECTURAL, MECHANICAL, CIVIL, & STRUCTURAL DOCUMENTS.

ISOMETRIC 01



NOTES:

1.) ISOMETRIC VIEWS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. ACTUAL CONSTRUCTION TO MATCH CONSTRUCTION DOCUMENTS. REFERENCE ARCHITECTURAL, MECHANICAL, CIVIL, & STRUCTURAL DOCUMENTS.

OMETRIC 02

SHEET NUMBER

PARAGON STAR

PARAGON STAR - LOT 9 -BUILDING 2

LEE'S SUMMIT, MO

Project No.: 19050.01

Date: 10.25.19

Issued For: SHELL - CD SET

Date Description

DECICEDATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA

LANDSCAPE HOERR SCHAUDT /
LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION FIRE PROTECTION

CONTRACTOR FOGEL ANDERSON

STRUCTURAL ENGINEERS

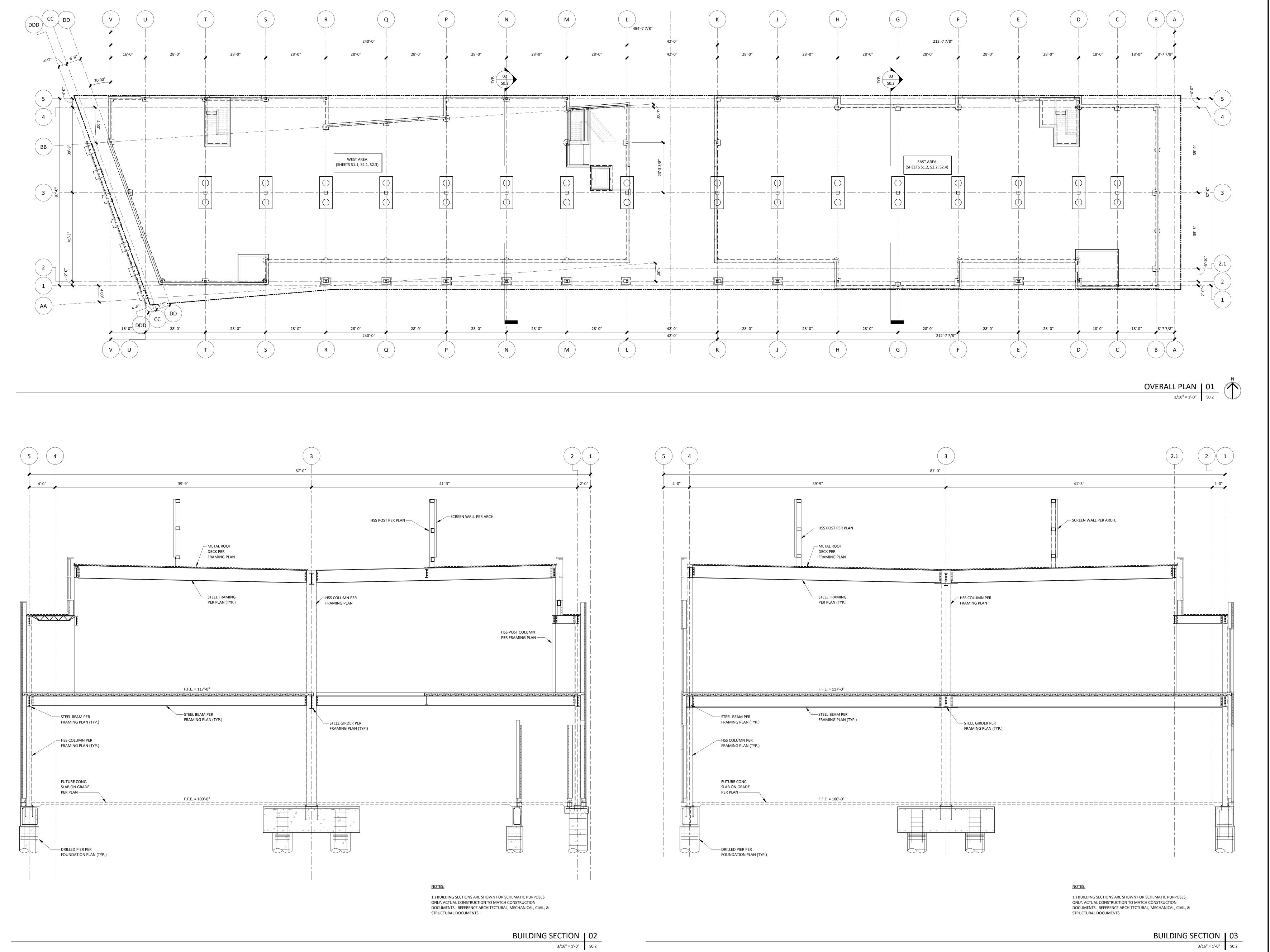
1132 West 79th Street
Lenexa, Kansas 66214
Phone 913.492.7400

www.BSEstructural.com Project Number 19-354

SHEET TITLE

ISOMETRIC

SILLI NOWIDEN





LEE'S SUMMIT, MO



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL STRUCTURAL **ENGINEERS** HENDERSON PLUMBING **ENGINEERS** HENDERSON MECHANICAL **ENGINEERS** HENDERSON ELECTRICAL

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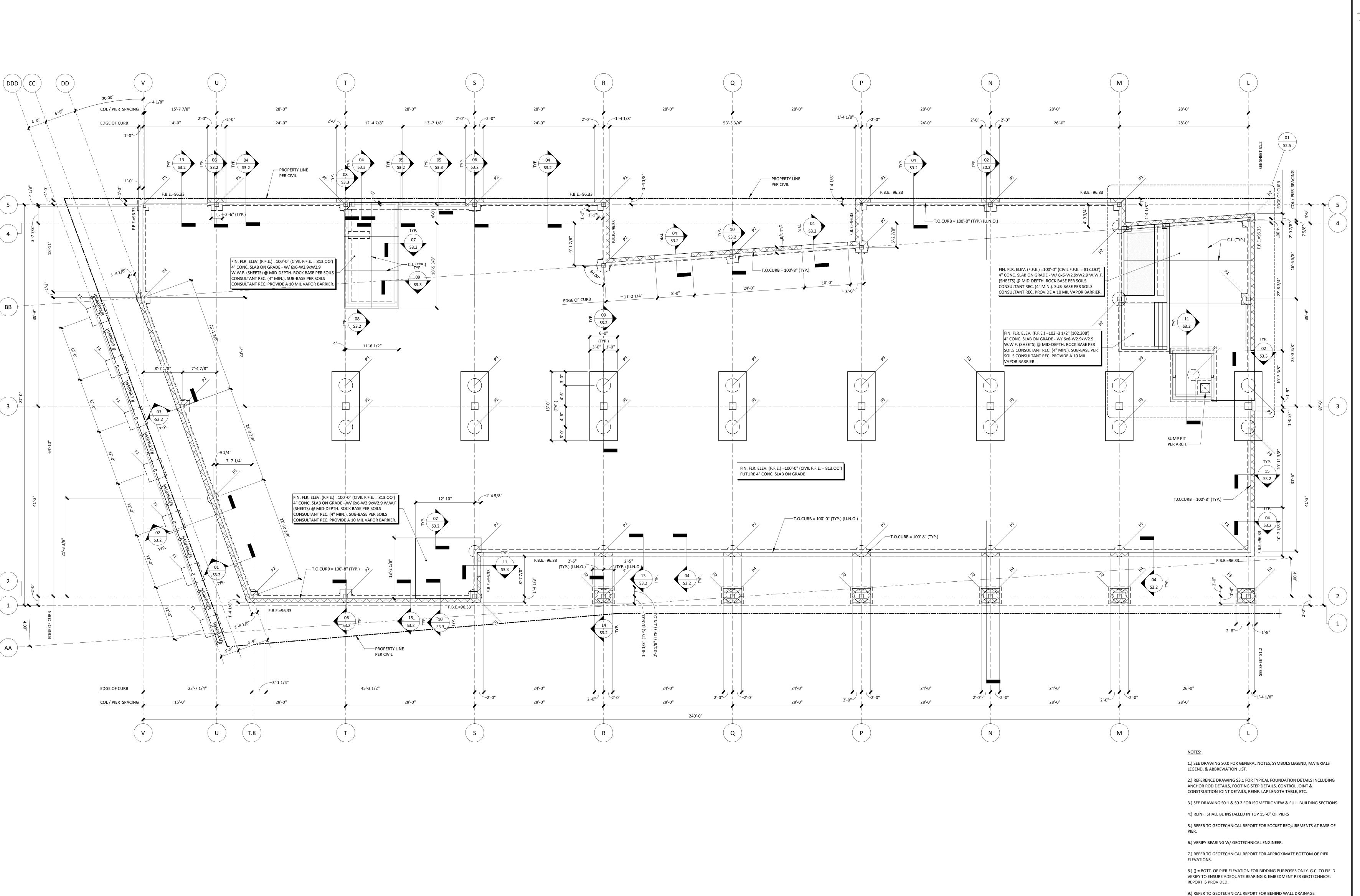
FIRE PROTECTION FIRE PROTECTION

CONTRACTOR FOGEL ANDERSON

**ENGINEERS** 

SHEET TITLE

OVERALL PLAN



FOUNDATION SCHEDULE

@ 12" SPA. EA. WAY TOP

PER SECTION

PER SECTION

F1 4'-0" x 4'-0" x 3'-0" #5 @ 12" SPA. EA. WAY BOTT. & #4

COMMENTS

96.33

98.33

MARK

PIER DIAMETER

- EMBED DRILLED PIER INTO ROCK PER THE GEOTECHNICAL REPORT RECOMMENDATIONS

MARK DIMENSIONS

F2 3'-8" x 4'-10" x 1'-0"

F3 3'-8" x 4'-4"x 1'-0"

DRILLED PIER SCHEDULE

VERT. REINFORCEMENT

(24) #6

(24) #6

(24) #6 (16) #6 T.O.P.

PIER TIES

#3 @ 10" SPA. 96'-4" #3 @ 10" SPA. 96'-4"

#3 @ 10" SPA. 95'-8"

#3 @ 10" SPA. 99'-4"

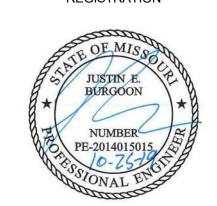
#3 @ 10" SPA. 93'-4"

PARAGON STAR

PARAGON STAR - LOT 9 -**BUILDING 2** 

LEE'S SUMMIT, MO

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** 

PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** 

STRUCTURAL

BSE STRUCTURAL

**ENGINEERS** 

HENDERSON ELECTRICAL **ENGINEERS** 

FIRE PROTECTION FIRE PROTECTION CONTRACTOR FOGEL ANDERSON

Project Number 19-354

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SHEET TITLE

RECOMMENDATIONS. COORD. W/ CIVIL AS REQ'D. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION WATERPROOFING & INSULATION REQUIREMENTS.

10.) COAT ALL EXPOSED STEEL BELOW GRADE W/ COAL TAR EPOXY OR FULLY

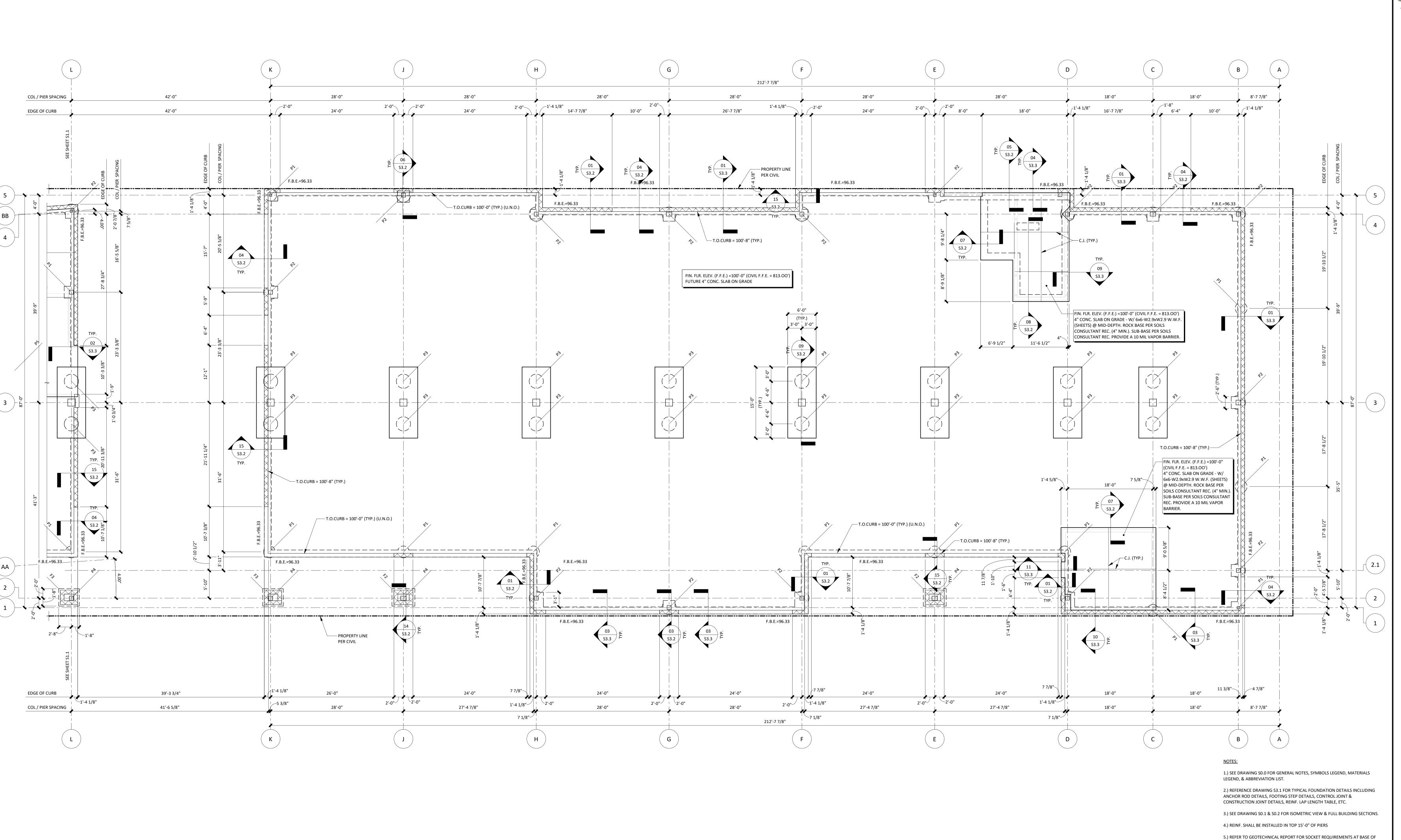
KEY PLAN

FOUNDATION PLAN - WEST | 01

1/8" = 1'-0" S1.1

**ENCASE IN GROUT** 

FOUNDATION PLAN - WEST



FOUNDATION SCHEDULE

@ 12" SPA. EA. WAY TOP

PER SECTION

PER SECTION

F1 4'-0" x 4'-0" x 3'-0" #5 @ 12" SPA. EA. WAY BOTT. & #4

COMMENTS

96.33

98.33

MARK DIMENSIONS

F2 3'-8" x 4'-10" x 1'-0"

F3 3'-8" x 4'-4"x 1'-0"

9.) REFER TO GEOTECHNICAL REPORT FOR BEHIND WALL DRAINAGE RECOMMENDATIONS. COORD. W/ CIVIL AS REQ'D. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION WATERPROOFING & INSULATION REQUIREMENTS. DRILLED PIER SCHEDULE 10.) COAT ALL EXPOSED STEEL BELOW GRADE W/ COAL TAR EPOXY OR FULLY T.O.P. VERT. REINFORCEMENT PIER TIES **ENCASE IN GROUT** #3 @ 10" SPA. 96'-4" #3 @ 10" SPA. 96'-4" (24) #6 #3 @ 10" SPA. 95'-8" (24) #6 #3 @ 10" SPA. 99'-4" (24) #6 #3 @ 10" SPA. 93'-4" (16) #6

MARK PIER DIAMETER

- EMBED DRILLED PIER INTO ROCK PER THE GEOTECHNICAL REPORT RECOMMENDATIONS

KEY PLAN

FOUNDATION PLAN - EAST | 01 | 1/8" = 1'-0" | \$1.2

6.) VERIFY BEARING W/ GEOTECHNICAL ENGINEER.

ELEVATIONS.

REPORT IS PROVIDED.

7.) REFER TO GEOTECHNICAL REPORT FOR APPROXIMATE BOTTOM OF PIER

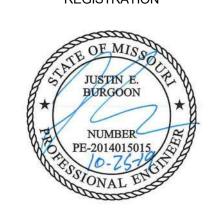
8.) () = BOTT. OF PIER ELEVATION FOR BIDDING PURPOSES ONLY. G.C. TO FIELD VERIFY TO ENSURE ADEQUATE BEARING & EMBEDMENT PER GEOTECHNICAL



## PARAGON STAR - LOT 9 -**BUILDING 2**

LEE'S SUMMIT, MO

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION FIRE PROTECTION

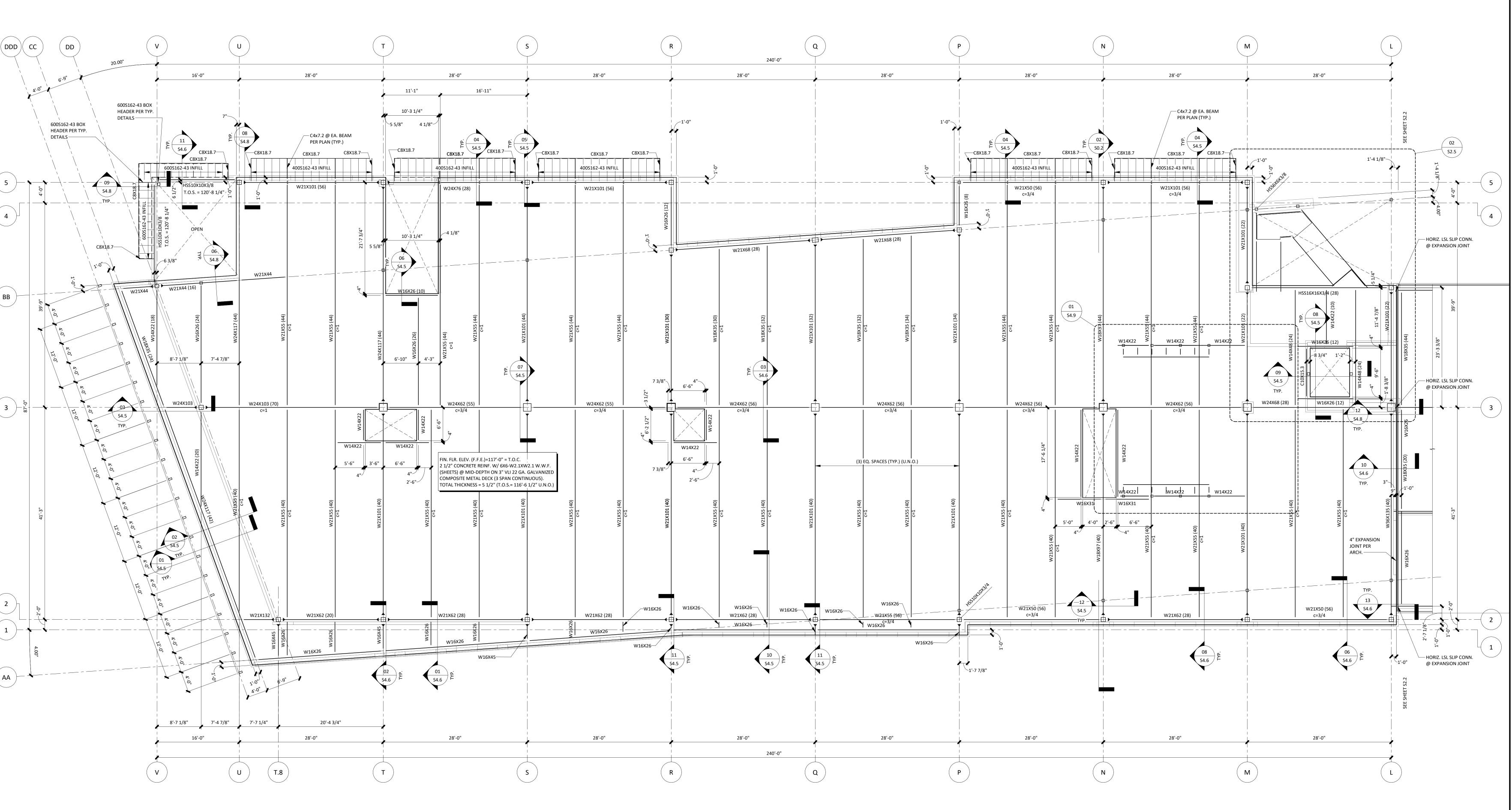
1132 West 79th Street Lenexa, Kansas 66214 Phone 913.492.7400

> www.BSEstructural.com Project Number 19-354

CONTRACTOR FOGEL ANDERSON

SHEET TITLE

FOUNDATION PLAN - EAST



LEE'S SUMMIT, MO

PARAGON STAR

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS BSE STRUCTURAL** STRUCTURAL **ENGINEERS** HENDERSON PLUMBING **ENGINEERS** HENDERSON MECHANICAL **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION FIRE PROTECTION CONTRACTOR FOGEL ANDERSON

1132 West 79th Street Lenexa, Kansas 66214 Phone 913.492.7400

www.BSEstructural.com Project Number 19-354

SHEET TITLE

2ND FLOOR FRAMING PLAN -WEST

SHEET NUMBER

2ND FLOOR FRAMING PLAN - WEST | 01

1.) SEE DRAWING SO.0 FOR GENERAL NOTES, SYMBOLS LEGEND,

2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

3.) SEE DRAWING SO.1 FOR ISOMETRIC VIEW & FULL BUILDING SECTIONS.

4.) REFERENCE ARCHITECTURAL DRAWINGS TO VERIFY SIZE & LOCATIONS

6.) PROVIDE 3/4" x 4 1/2" LONG HEADED SHEAR STUDS FOR COMPOSITE BEAMS. SEE TYPICAL FRAMING DETAIL SHEET FOR ADDITIONAL DETAILS.

7.) ATTACH COMPOSITE METAL DECK W/ 5/8" PUDDLE WELD IN A 36/4

8.) G.C. TO COORDINATE CONSTRUCTION JOINT IN CONC. SLAB POUR AT

9.) G.C. TO COORD. COMP. CONC. SLAB PIGMENT AND FINISH W/ ARCH.

10.) ALL EXTERIOR STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED AND/OR PAINTED PER ARCHITECT UNLESS NOTED OTHER

MATERIALS LEGEND, & ABBREVIATION LIST.

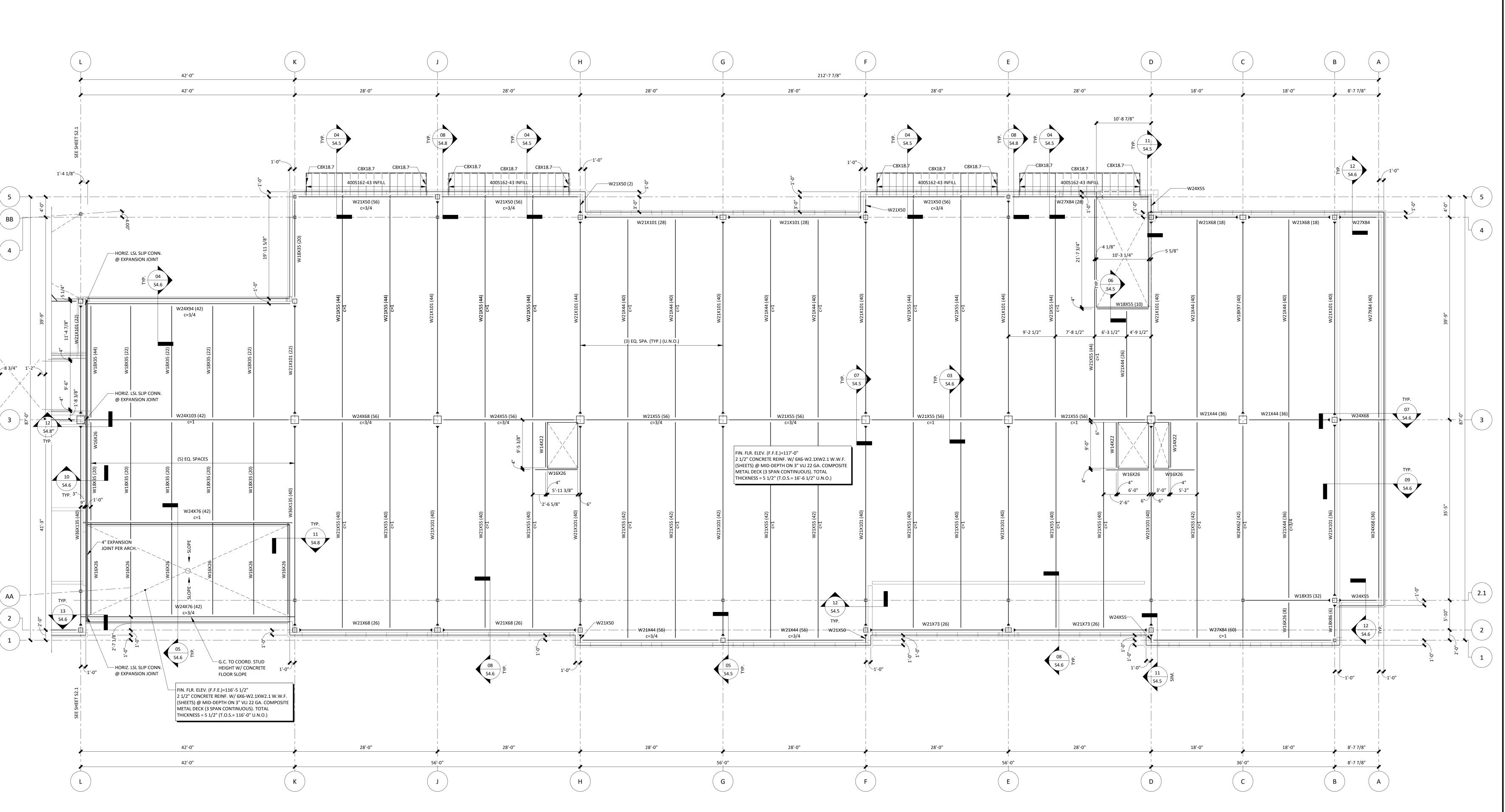
5.) PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS.

PATTERN & (2) WELDED SIDE LAP FASTENERS PER SPAN.

**KEY PLAN** 

OF ALL FLOOR & WALL OPENINGS.

1/8" = 1'-0" S2.1



PARAGON STAR - LOT 9 -**BUILDING 2** 

LEE'S SUMMIT, MO



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL **BSE STRUCTURAL ENGINEERS** HENDERSON PLUMBING **ENGINEERS** HENDERSON MECHANICAL **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION FIRE PROTECTION

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CONTRACTOR FOGEL ANDERSON

SHEET TITLE

2ND FLOOR FRAMING PLAN -EAST

SHEET NUMBER

2ND FLOOR FRAMING PLAN - EAST | 01

1.) SEE DRAWING SO.0 FOR GENERAL NOTES, SYMBOLS LEGEND,

2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

5.) PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS.

PATTERN & (2) WELDED SIDE LAP FASTENERS PER SPAN.

3.) SEE DRAWING SO.1 FOR ISOMETRIC VIEW & FULL BUILDING SECTIONS.

4.) REFERENCE ARCHITECTURAL DRAWINGS TO VERIFY SIZE & LOCATIONS

6.) PROVIDE 3/4" x 4 1/2" LONG HEADED SHEAR STUDS FOR COMPOSITE BEAMS. SEE TYPICAL FRAMING DETAIL SHEET FOR ADDITIONAL DETAILS.

7.) ATTACH COMPOSITE METAL DECK W/ 5/8" PUDDLE WELD IN A 36/4

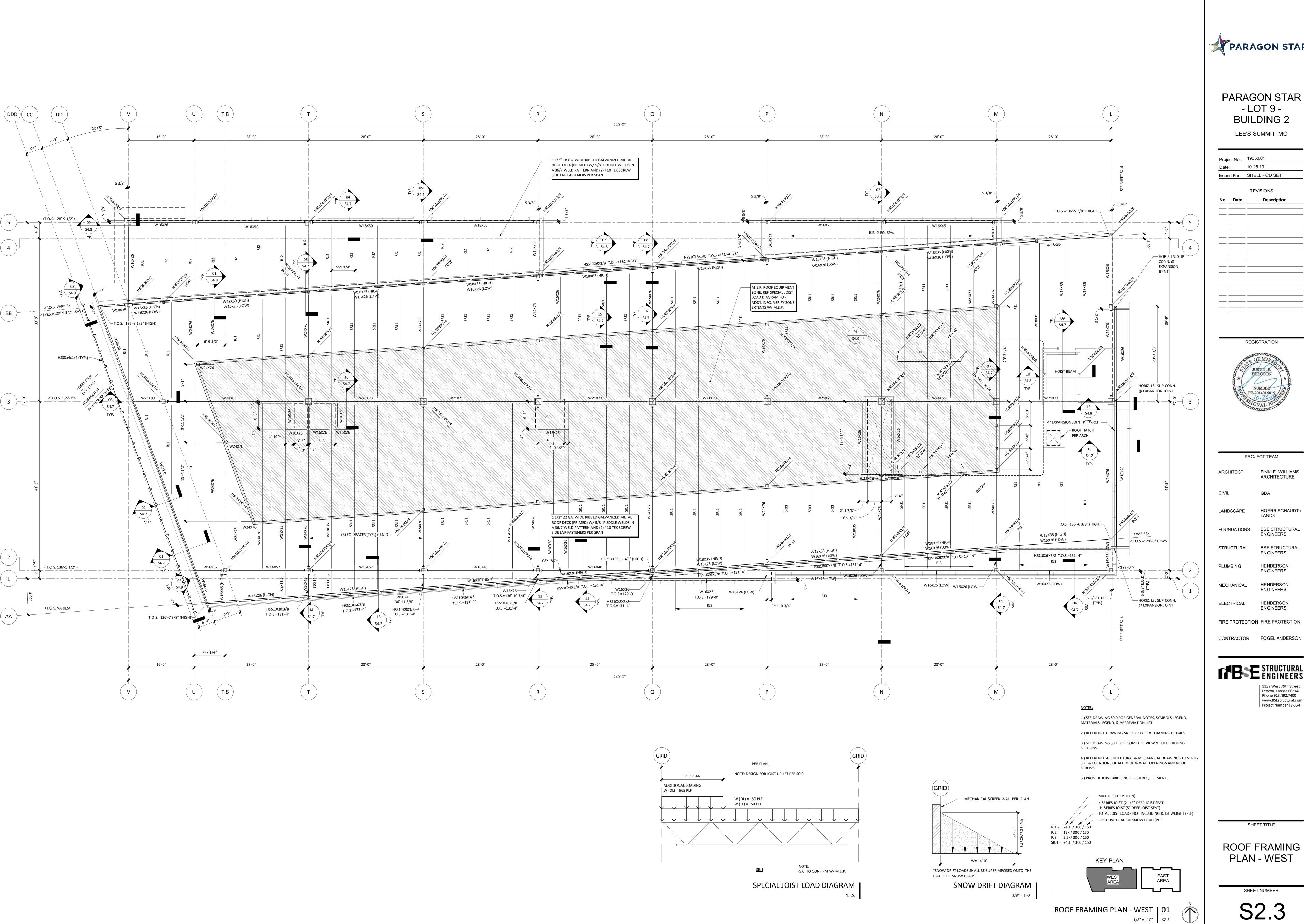
8.) G.C. TO COORDINATE CONSTRUCTION JOINT IN CONC. SLAB POUR AT

9.) G.C. TO COORD. COMP. CONC. SLAB PIGMENT AND FINISH W/ ARCH.

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MATERIALS LEGEND, & ABBREVIATION LIST.

OF ALL FLOOR & WALL OPENINGS.



PARAGON STAR - LOT 9 -**BUILDING 2** 

LEE'S SUMMIT, MO

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REGISTRATION



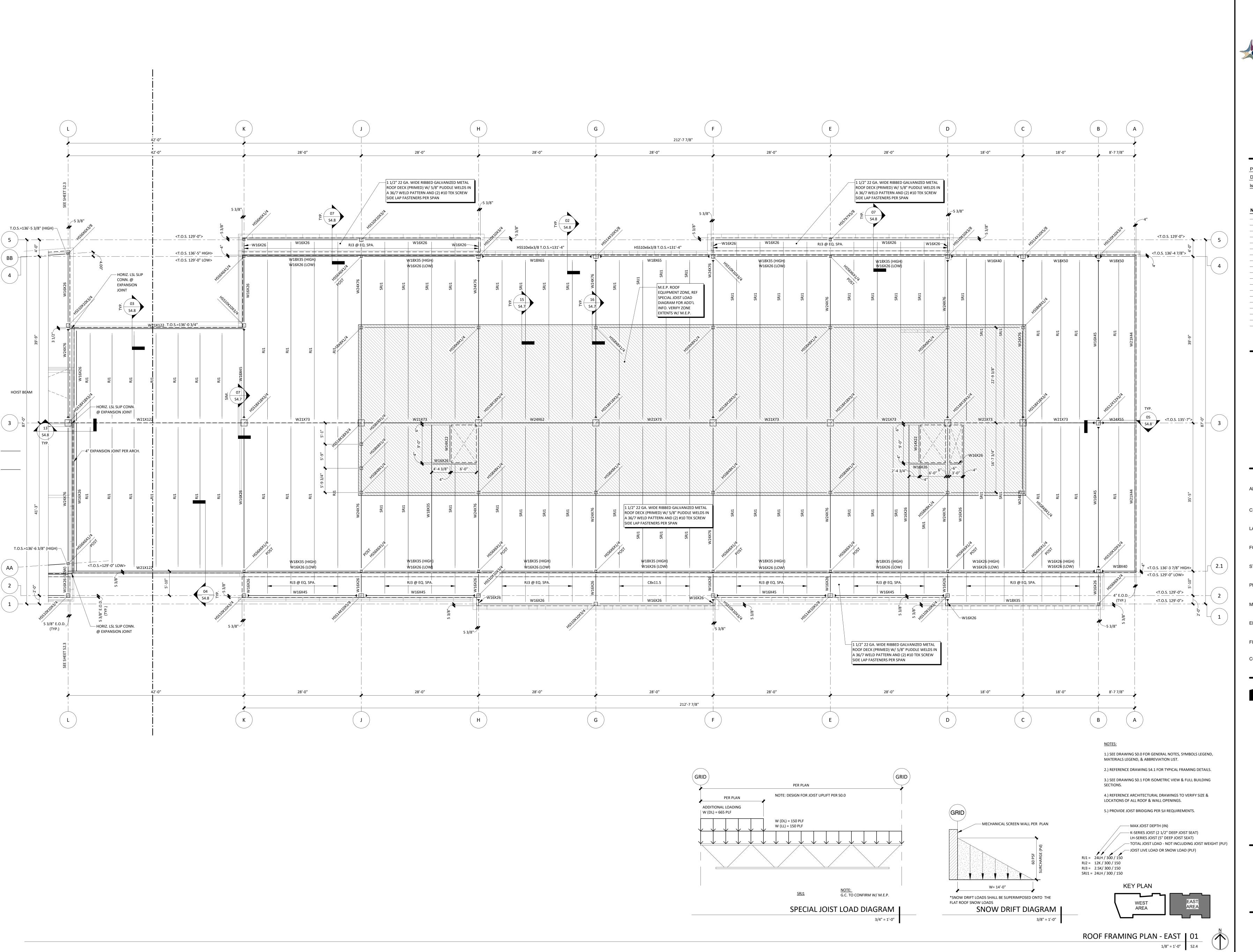
PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS BSE STRUCTURAL** STRUCTURAL **ENGINEERS** HENDERSON PLUMBING **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION FIRE PROTECTION

1132 West 79th Street

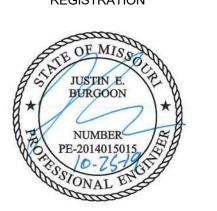
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SHEET TITLE

ROOF FRAMING PLAN - WEST



LEE'S SUMMIT, MO



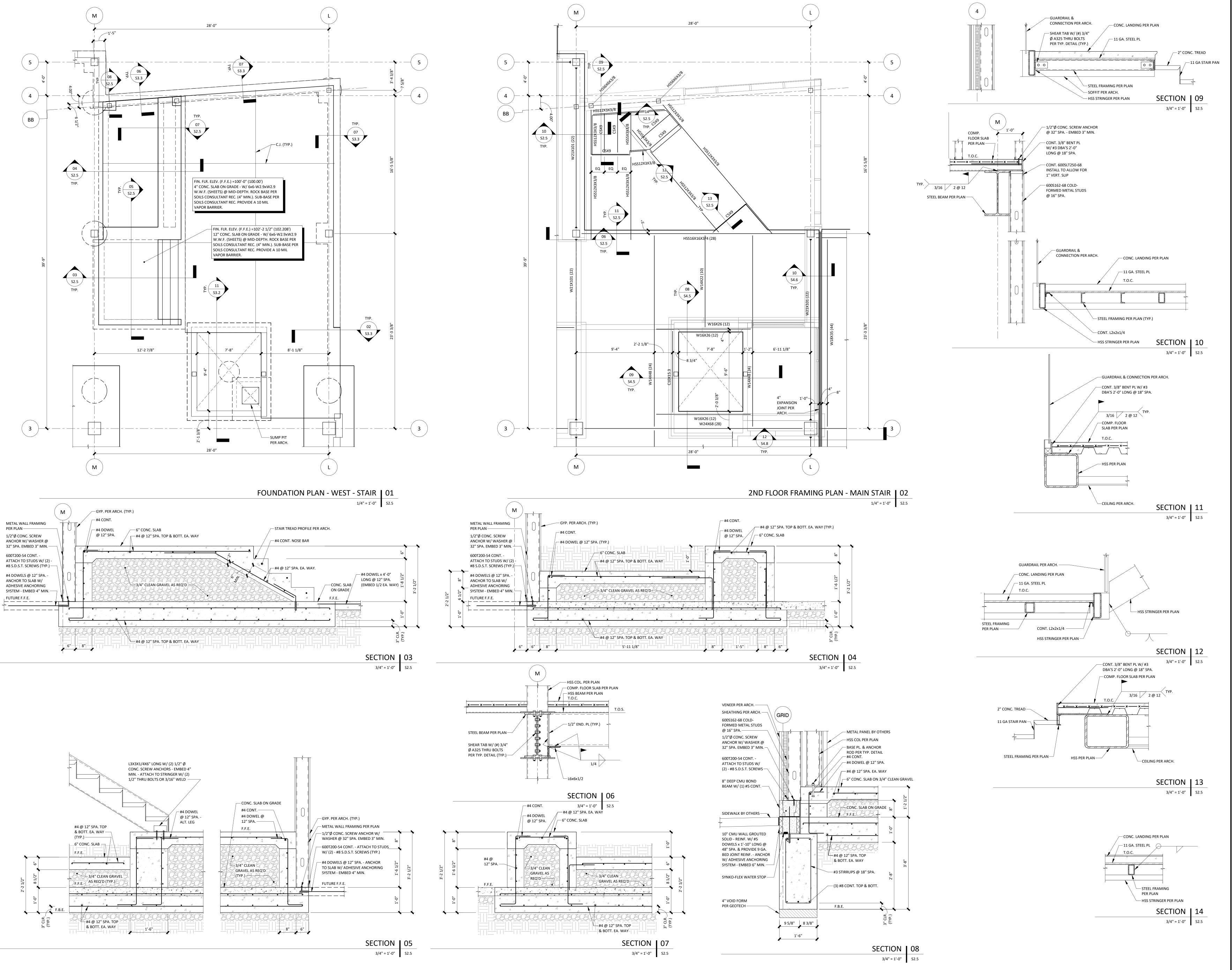
PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION FIRE PROTECTION CONTRACTOR FOGEL ANDERSON

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SHEET TITLE

ROOF FRAMING PLAN - EAST





LEE'S SUMMIT, MO

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REGISTRATION



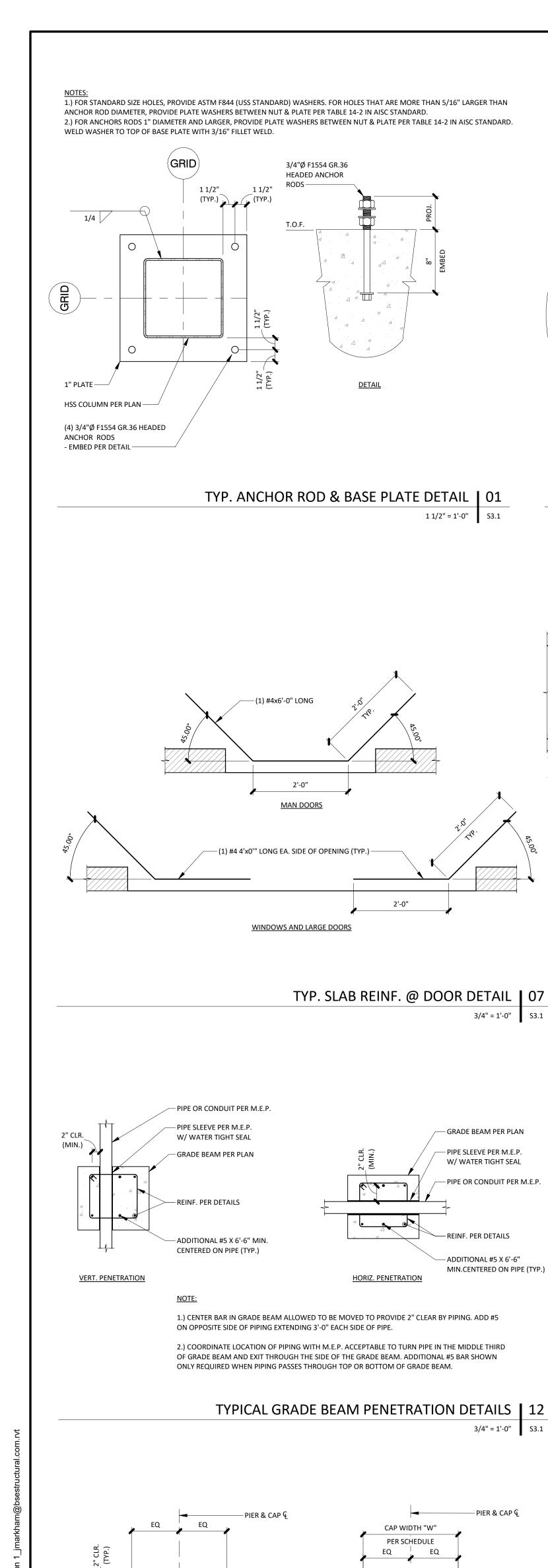
PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** HENDERSON ELECTRICAL **ENGINEERS** FIRE PROTECTION FIRE PROTECTION CONTRACTOR FOGEL ANDERSON

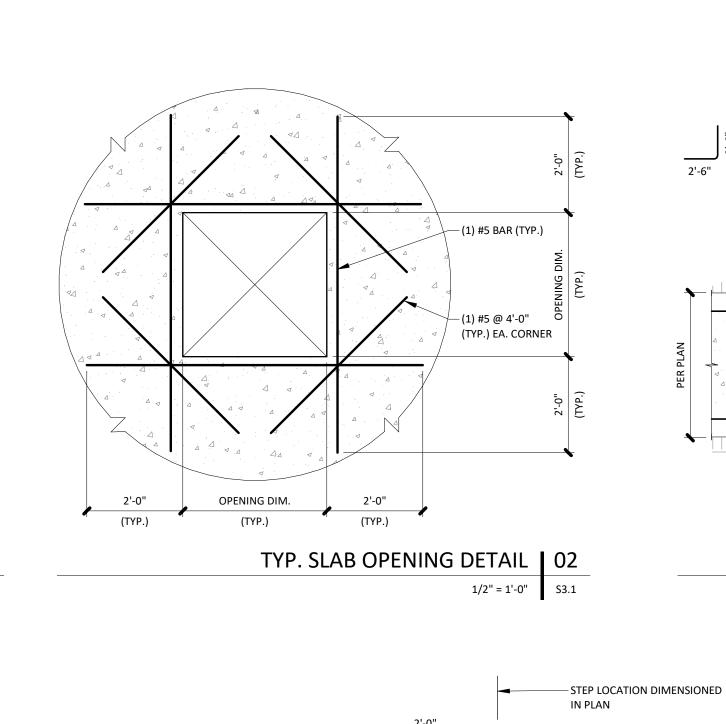


Project Number 19-354

SHEET TITLE

MAIN STAIR FRAMING





MATCH BOTTOM REINF. -

BASE PLATE WITH 3/16" FILLET WELD.

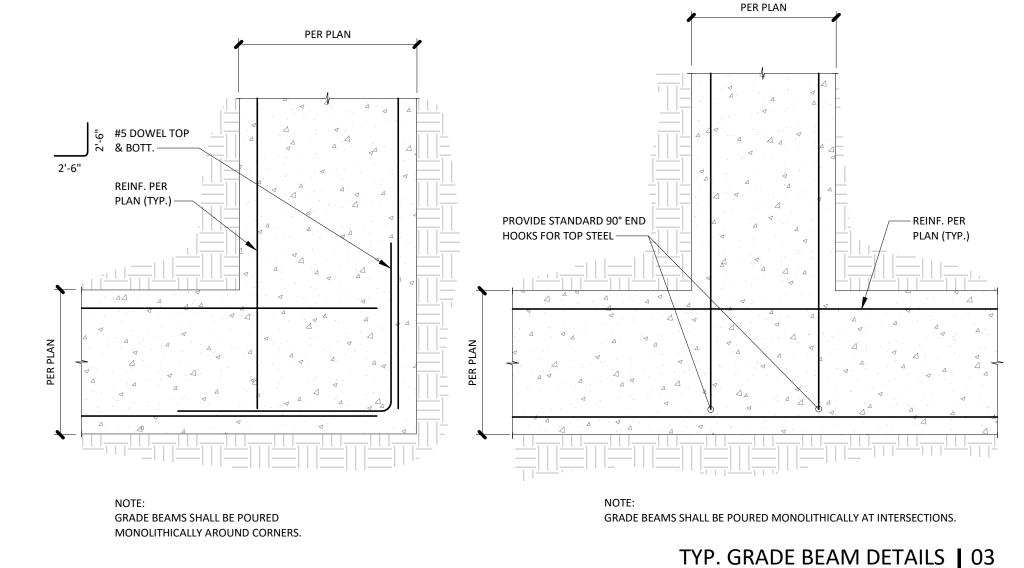
STEEL COLUMN

PER PLAN ———

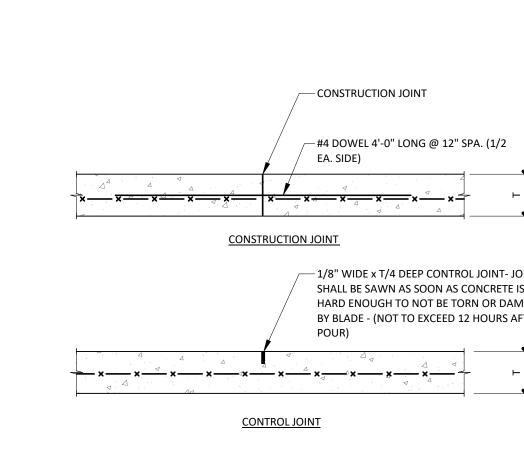
1/2

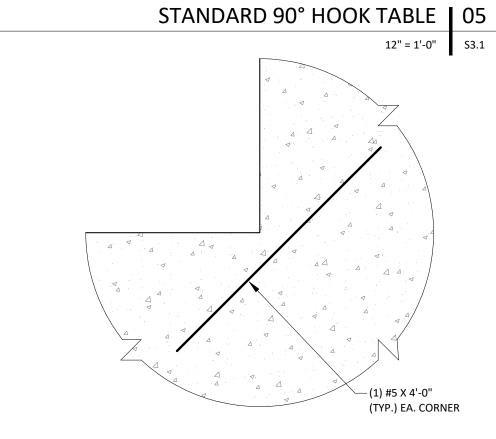
2" THICK A36

3/4" = 1'-0" S3.1



NOTES:





STANDARD HOOK TABLE

#5

#6

#7

BAR SIZE HOOK

8 in.

10 in.

12 in.

14 in.

16 in.

PARAGON STAR

PARAGON STAR

- LOT 9 -

**BUILDING 2** 

LEE'S SUMMIT, MO

REVISIONS

REGISTRATION

PROJECT TEAM

ARCHITECT

FOUNDATIONS

STRUCTURAL

PLUMBING

MECHANICAL

ELECTRICAL

CIVIL

FINKLE+WILLIAMS

HOERR SCHAUDT /

BSE STRUCTURAL

BSE STRUCTURAL

**ENGINEERS** 

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

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FIRE PROTECTION FIRE PROTECTION

CONTRACTOR FOGEL ANDERSON

ARCHITECTURE

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— 1/8" WIDE x T/4 DEEP CONTROL JOINT- JOINTS SHALL BE SAWN AS SOON AS CONCRETE IS HARD ENOUGH TO NOT BE TORN OR DAMAGED BY BLADE - (NOT TO EXCEED 12 HOURS AFTER TYP. CONTROL & CONST. JOINT DETAIL | 04

3/4" = 1'-0" S3.1

TENSION LAP SPLICE LENGTHS (in)

GRADE 60 UNCOATED BARS

f'c=4000 psi

TOP BARS

B 32 48 25 37

A 31 47 24 36

B 48 72 37 56

A 54 81 42 63

B 70 106 54 81

TYP. RE-ENTRANT CORNER REINF. DETAIL | 06 3/4" = 1'-0" S3.1

1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE. SIZE | CLASS | CASE 1 | CASE 2 | CASE 1 | CASE 2 TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318, SECTIONS 12.2.2 AND 12.15, RESPECTIVELY. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE

REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES. 4. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT. CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE

BEAMS OR COLUMNS: CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (2) BAR DIAMETERS

CASE 2: COVER LESS THAN (1) BAR DIAMETER AND

C.-C. SPACING LESS THAN (2) BAR DIAMETERS CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (3) BAR DIAMETERS CASE 2: COVER LESS THAN (1) BAR DIAMETER AND

C.-C. SPACING LESS THAN (3) BAR DIAMETERS

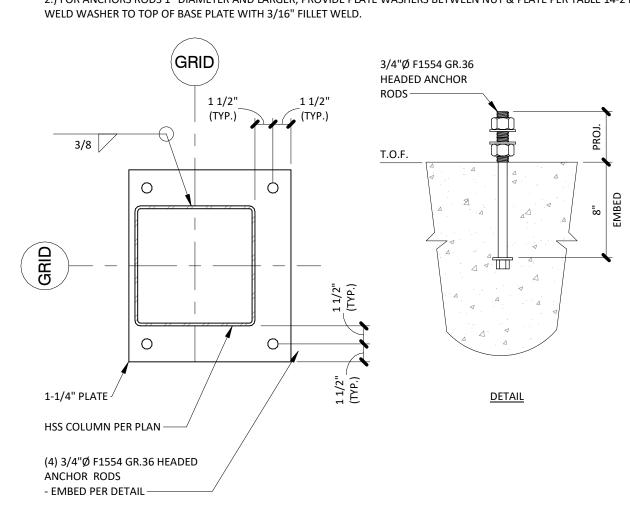
5. LAP CLASS A VALUES ARE THE REQUIRED TENSION DEVELOPMENT LENGTHS, ld; LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS; CLASS A - 1.0ld AND CLASS B = 1.3ld (ACI 318, SECTION 12.15.1)

6. LAP CLASS B SHALL BE USED FOR ALL CASES UNLESS APPROVED BY E.O.R 7. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

8.) LENGTHS SHOWN ARE FOR UNCOATED BARS. LENGTHS SHOWN SHALL BE MULTIPLIED BY 1.2 FOR ALL EXPOXY COATED BARS (ACI 318 SECTION 12.2.4) 9.) WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, THE SPLICE LENGTH FOR THE LARGER BAR SHALL BE USED.

LAP SPLICE LENGTHS f'c=4000 psi | 11

1/2" = 1'-0" S3.1 1.) FOR STANDARD SIZE HOLES, PROVIDE ASTM F844 (USS STANDARD) WASHERS. FOR HOLES THAT ARE MORE THAN 5/16" LARGER THAN ANCHOR ROD DIAMETER, PROVIDE PLATE WASHERS BETWEEN NUT & PLATE PER TABLE 14-2 IN AISC STANDARD. 2.) FOR ANCHORS RODS 1" DIAMETER AND LARGER, PROVIDE PLATE WASHERS BETWEEN NUT & PLATE PER TABLE 14-2 IN AISC STANDARD.



TYP. OFFSET ANCHOR ROD & BASE PLATE DETAIL | 15

1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND f'c=3000 psi TOP BARS CASE 1 | CASE 2 | CASE 1 | CASE 2 A 36 54 28 41 B 56 84 43 64 A 63 94 48

#11 A 101 151 78 116
B 131 196 101 151

TENSION LAP SPLICE LENGTHS (in)

GRADE 60 UNCOATED BARS

NORMAL-WEIGHT CONCRETE. . TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318, SECTIONS 12.2.2 AND 12.15, RESPECTIVELY. 3. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE CASE 1: COVER AT LEAST (1) BAR DIAMETER AND

C.-C. SPACING AT LEAST (2) BAR DIAMETERS CASE 2: COVER LESS THAN (1) BAR DIAMETER AND C.-C. SPACING LESS THAN (2) BAR DIAMETERS

CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (3) BAR DIAMETERS CASE 2: COVER LESS THAN (1) BAR DIAMETER AND

C.-C. SPACING LESS THAN (3) BAR DIAMETERS

5. LAP CLASS A VALUES ARE THE REQUIRED TENSION DEVELOPMENT LENGTHS, ld; LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS; CLASS A - 1.0ld AND CLASS B = 1.3ld (ACI 318, SECTION 12.15.1)

6. LAP CLASS B SHALL BE USED FOR ALL CASES UNLESS APPROVED BY E.O.R 7. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF

CONCRETE CAST BELOW THE BARS.

8.) LENGTHS SHOWN ARE FOR UNCOATED BARS. LENGTHS SHOWN SHALL BE MULTIPLIED BY 1.2 FOR ALL EXPOXY COATED BARS (ACI 318 SECTION 12.2.4) 9.) WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, THE SPLICE LENGTH FOR

LENGTH OF THE SMALLER BAR. COMPRESSION DEVEL. & LAP SPLICE TABLE | 10

1.) TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL

2.) COMPRESSION DEVELOPMENT LENGTHS AND COMPRESSION SPLICE LENGTHS ARE

BASED ON ACI 318, SECTIONS 12.3 AND 12.16, RESPECTIVELY.

5.) TABLE IS NOT APPLICABLE FOR EPOXY-COATED REINFORCEMENT.

4.) COMPRESSION SPLICE PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED

WEIGHT CONCRETE.

3.) ALL VALUES ARE SHOWN IN INCHES

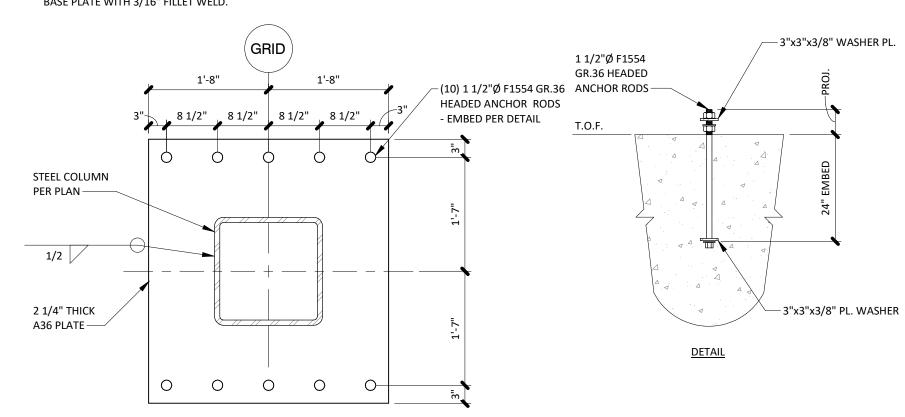
COMPRESSION DEVELOPMENT

AND LAP SPLICE LENGTHS GRADE 60 REINFORCEMENT, NORMAL WEIGHT CONCRETE

DEV SPLICE DEV SPLICE

CONCRETE COMPRESSIVE STRENGTH

1.) FOR STANDARD SIZE HOLES, PROVIDE ASTM F844 (USS STANDARD) WASHER. FOR HOLES THAT ARE MORE THAN 5/16" LARGER THAN ANCHOR ROD DIAMETER, PROVIDE PLATE WASHERS BETWEEN NUT & PLATE PER TABLE 14-2 IN AISC STANDARD 2.) FOR ANCHORS RODS 1" DIAMETER AND LARGER, PROVIDE PLATE WASHERS BETWEEN NUT & PLATE PER TABLE 14-2 IN AISC STANDARD. WELD TO TOP OF



TYP. BASE PLATE DETAIL - 18" MOMENT FRAME COLUMN | 14 3/4" = 1'-0" S3.1

TYP. BASE PLATE DETAIL - 12" MOMENT FRAME COLUMN | 13 3/4" = 1'-0" S3.1

-GRADE BEAM REINF. PER

PLAN (TYP.)

— MATCH TOP REINF.

TYP. FOOTING STEP DETAIL | 08

3/4" = 1'-0" S3.1

—— PIER & CAP € CAP WIDTH "W" PER SCHEDULE SCHEDULE DRILLED PIER PER PLAN (TYP. U.N.O.)

- EXTEND DRILLED PIER

REINF. TO TOP OF CAP & PROVIDE STD. HOOKS

**SECTION** 

TYP. DRILLED PIER CAP | 16 3/4" = 1'-0" S3.1 **FOUNDATION DETAILS** 

SHEET TITLE

**TYPICAL** 

SHEET NUMBER

— GRADE BEAM PER PLAN PIPE SLEEVE PER M.E.P. W/ WATER TIGHT SEAL PIPE OR CONDUIT PER M.E.P. - REINF. PER DETAILS – ADDITIONAL #5 X 6'-6" MIN.CENTERED ON PIPE (TYP.) HORIZ. PENETRATION 1.) CENTER BAR IN GRADE BEAM ALLOWED TO BE MOVED TO PROVIDE 2" CLEAR BY PIPING. ADD #5

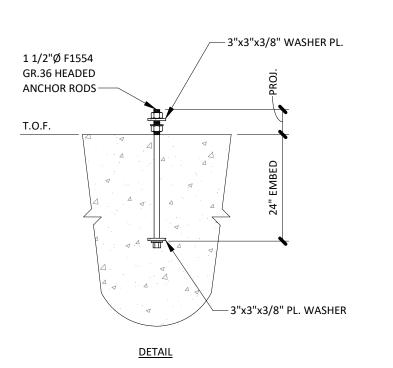
2.) COORDINATE LOCATION OF PIPING WITH M.E.P. ACCEPTABLE TO TURN PIPE IN THE MIDDLE THIRD OF GRADE BEAM AND EXIT THROUGH THE SIDE OF THE GRADE BEAM. ADDITIONAL #5 BAR SHOWN

TYPICAL GRADE BEAM PENETRATION DETAILS | 12

1 1/2" = 1'-0" S3.1

3/4" = 1'-0" S3.1

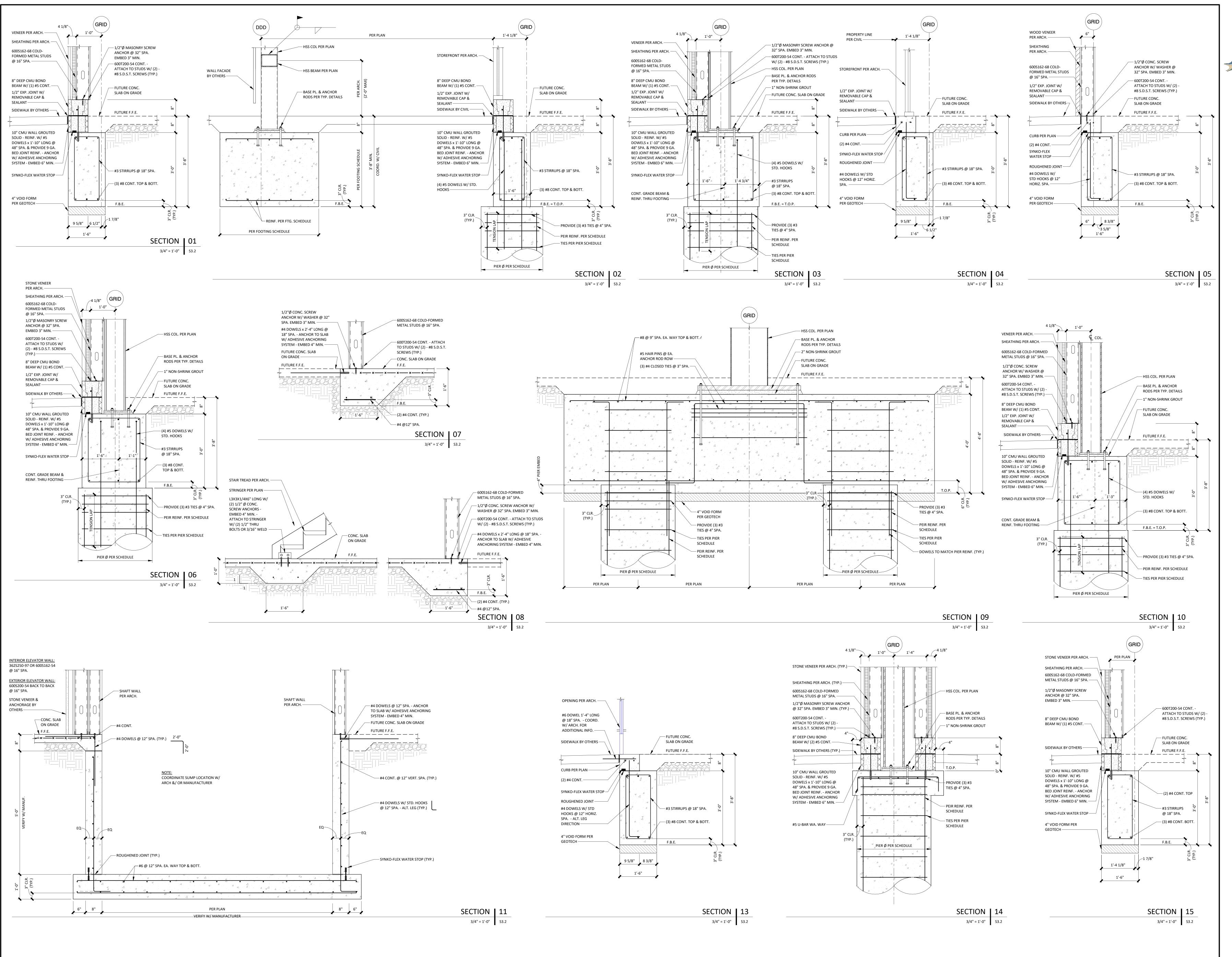
1.) FOR STANDARD SIZE HOLES, PROVIDE ASTM F844 (USS STANDARD) WASHER. FOR HOLES THAT ARE MORE THAN 5/16" LARGER THAN ANCHOR ROD DIAMETER, PROVIDE PLATE WASHERS BETWEEN NUT & PLATE PER TABLE 14-2 IN AISC STANDARD 2.) FOR ANCHORS RODS 1" DIAMETER AND LARGER, PROVIDE PLATE WASHERS BETWEEN NUT & PLATE PER TABLE 14-2 IN AISC STANDARD. WELD TO TOP OF — 3"x3"x3/8" WASHER PL. 1 1/2"Ø F1554 GR.36 HEADED ANCHOR RODS — /- (8) 1 1/2"Ø F1554 GR.36 HEADED ANCHOR RODS



- EMBED PER DETAIL

6.) "SIDE LAP" ALL LAP SPLICES TO MAINTAIN SPECIFIED CONCRETE COVER. 7.) WHEN BARS OF A DIFFERENT SIZE ARE LAP SPLICED, THE SPLICE LENGTH SHALI BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR, OR THE SPLICE THE LARGER BAR SHALL BE USED. LAP SPLICE LENGTHS f'c=3000 psi | 09 1/2" = 1'-0" S3.1 1/2" = 1'-0" S3.1

3/4" = 1'-0" S3.1





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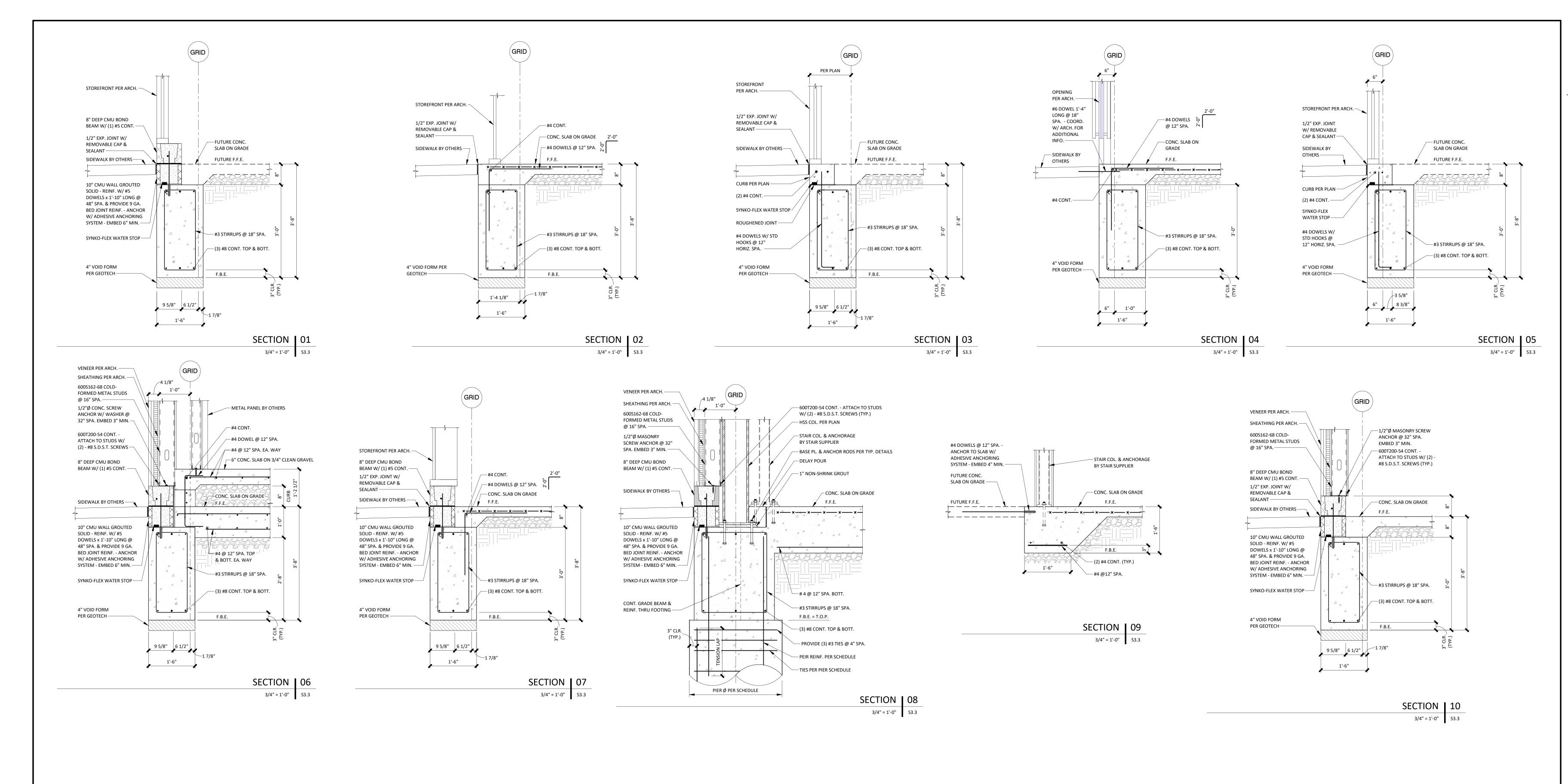
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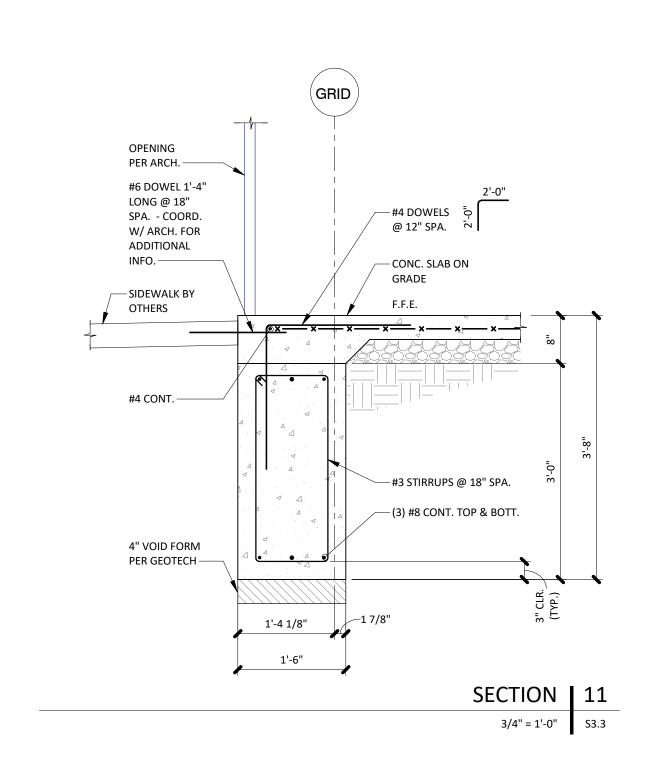
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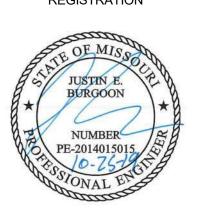
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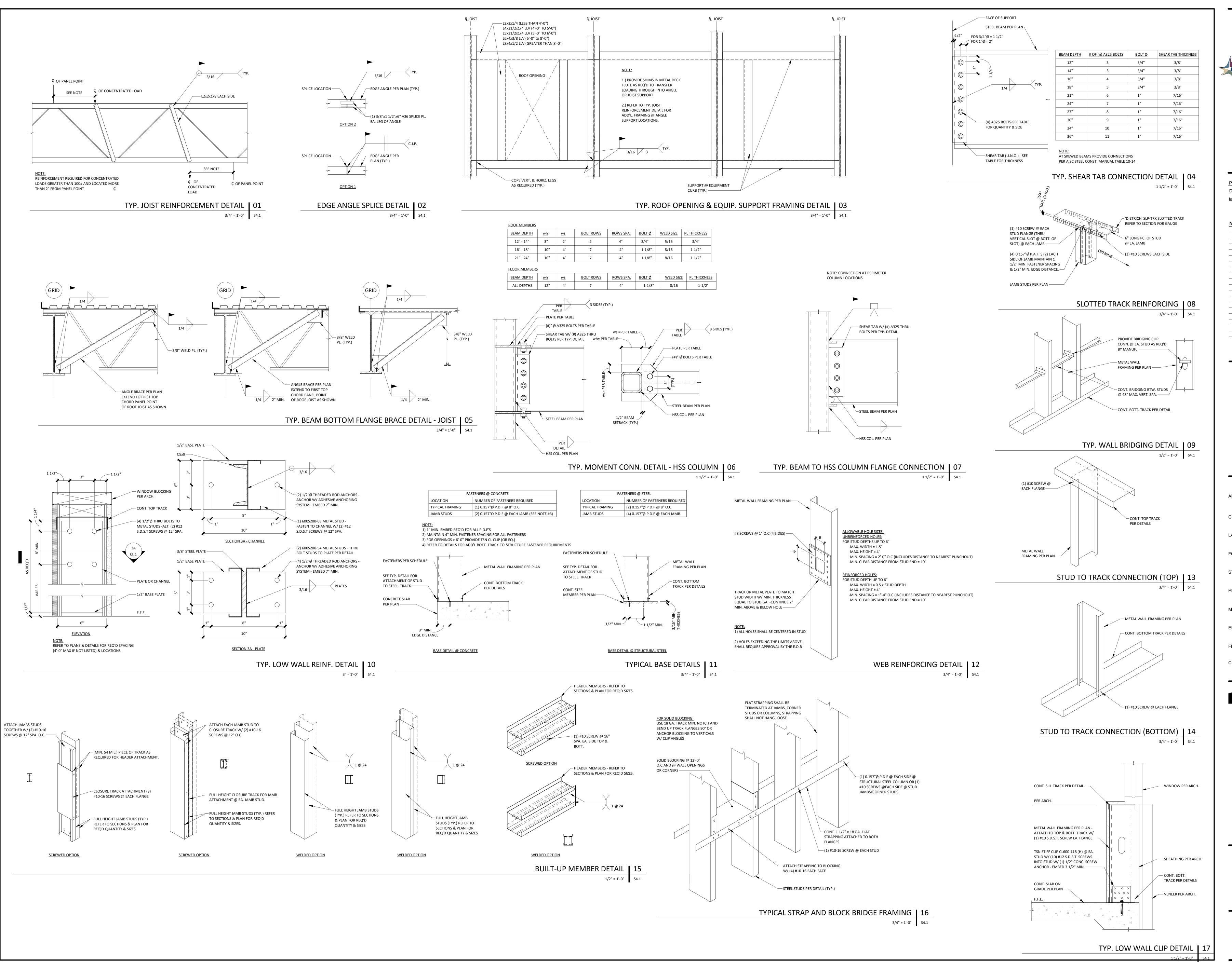
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CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

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STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

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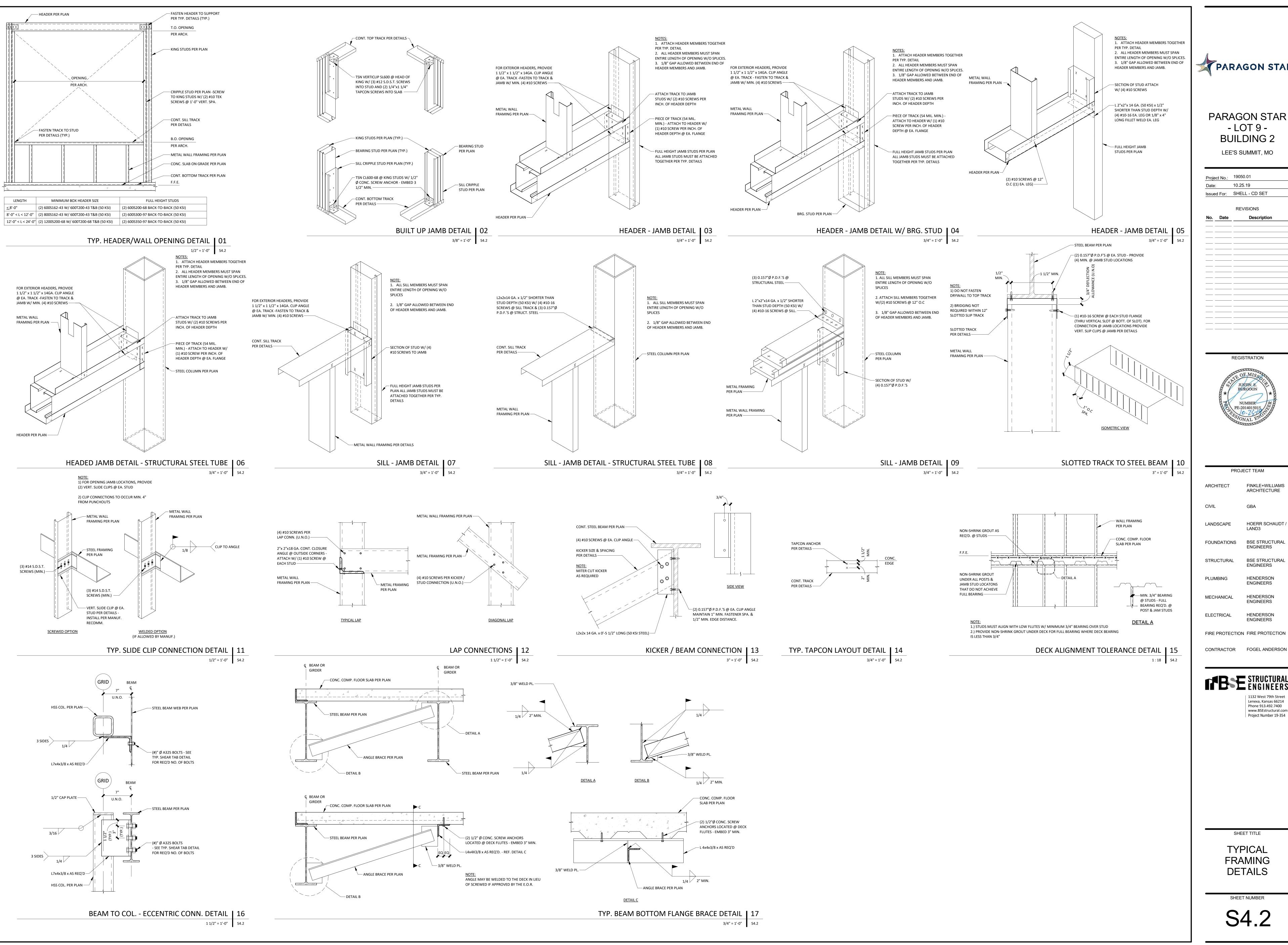
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SHEET TITLE

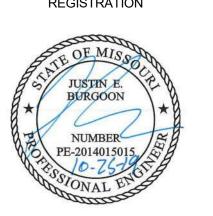


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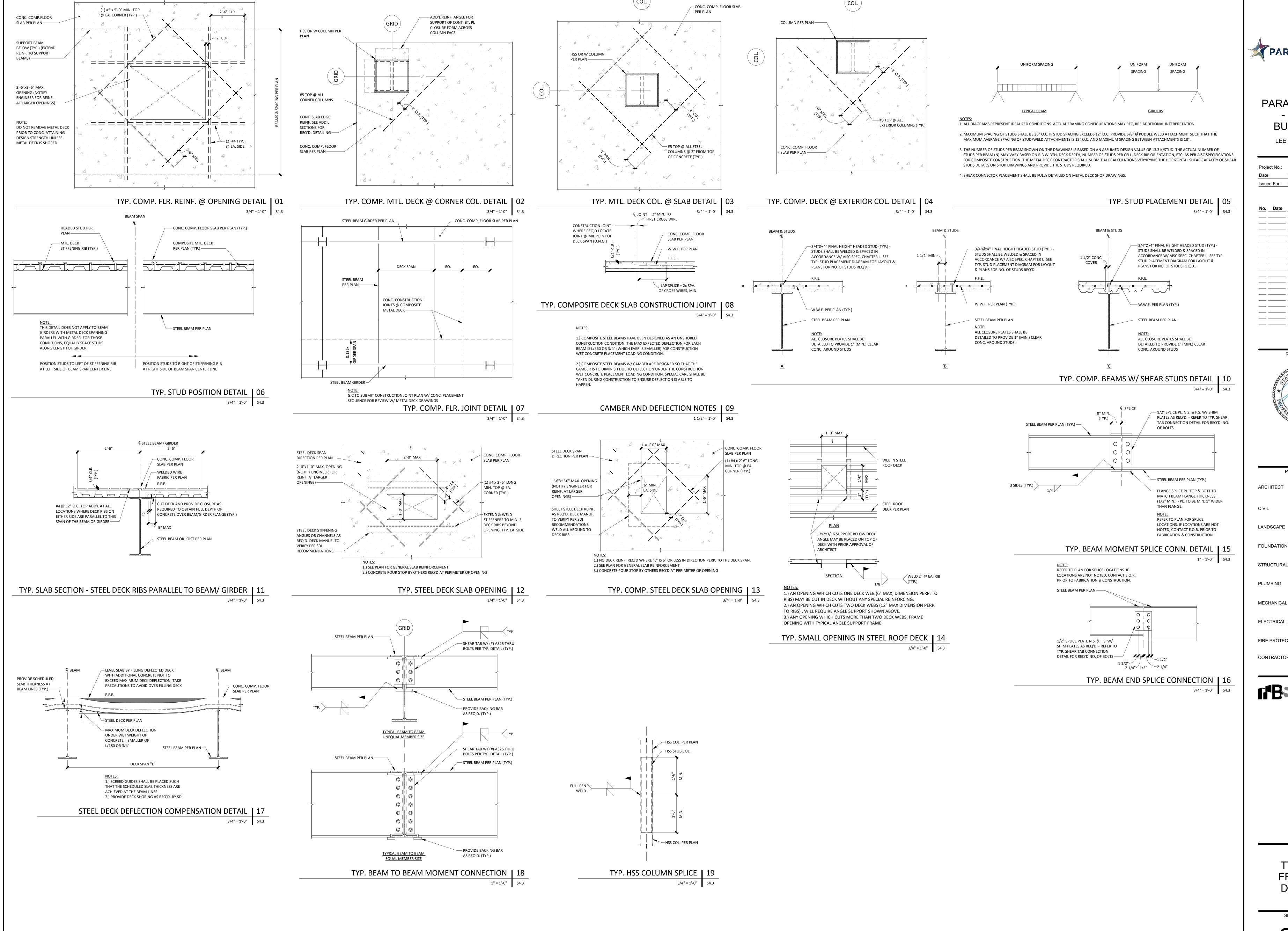
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SHEET TITLE **TYPICAL** FRAMING

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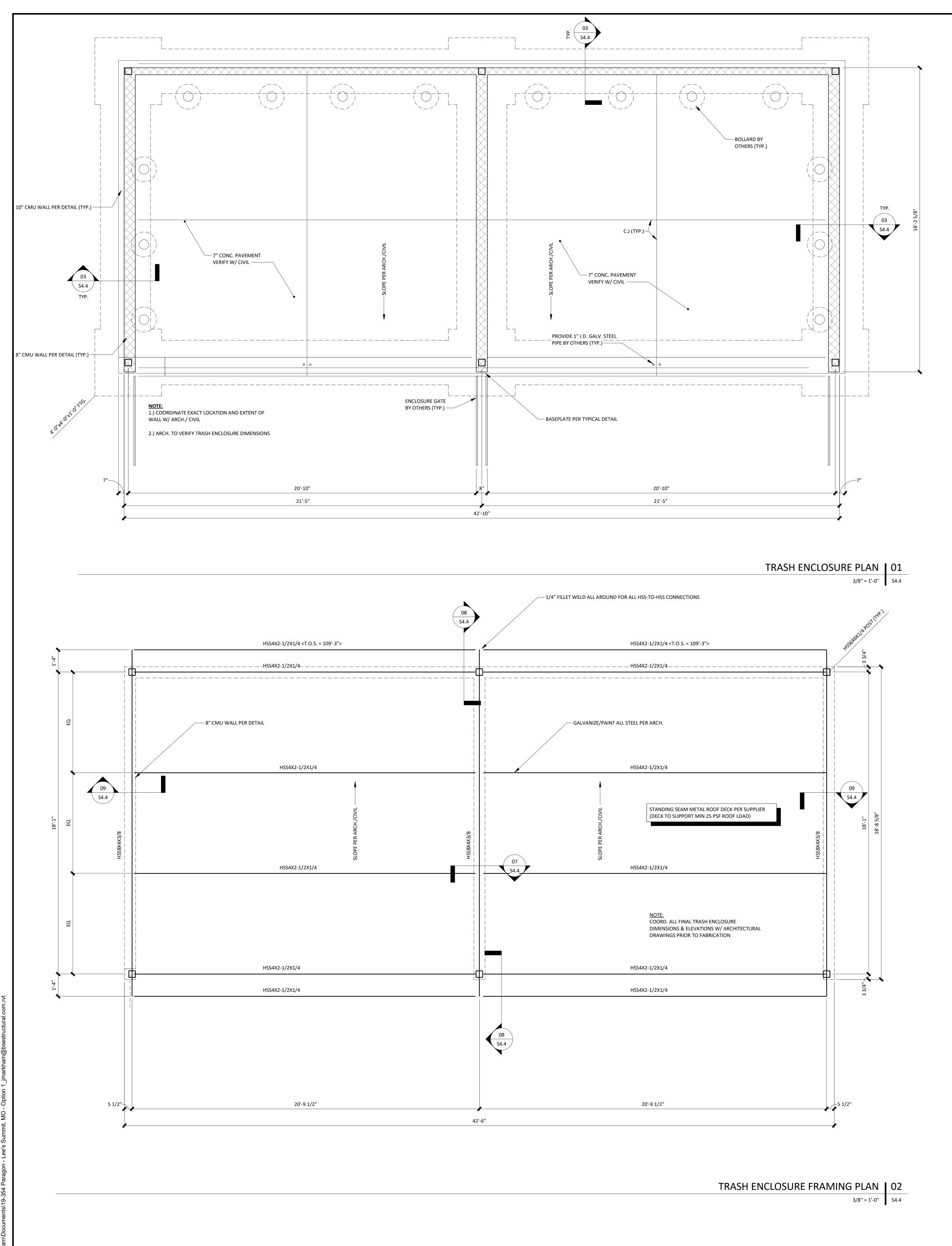
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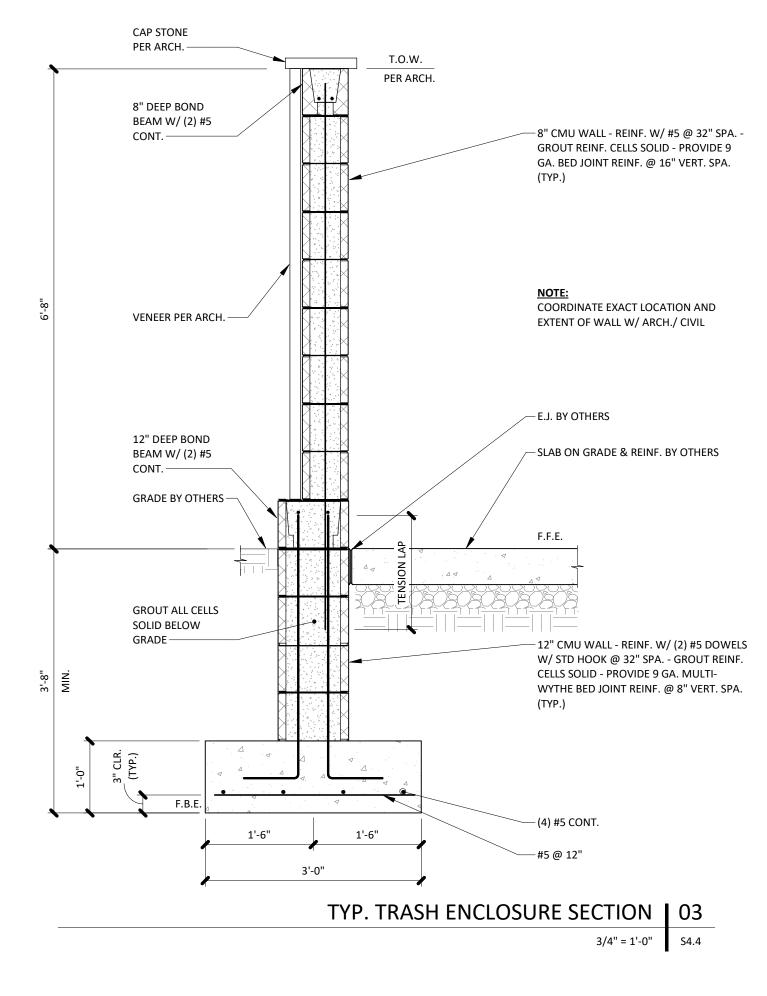
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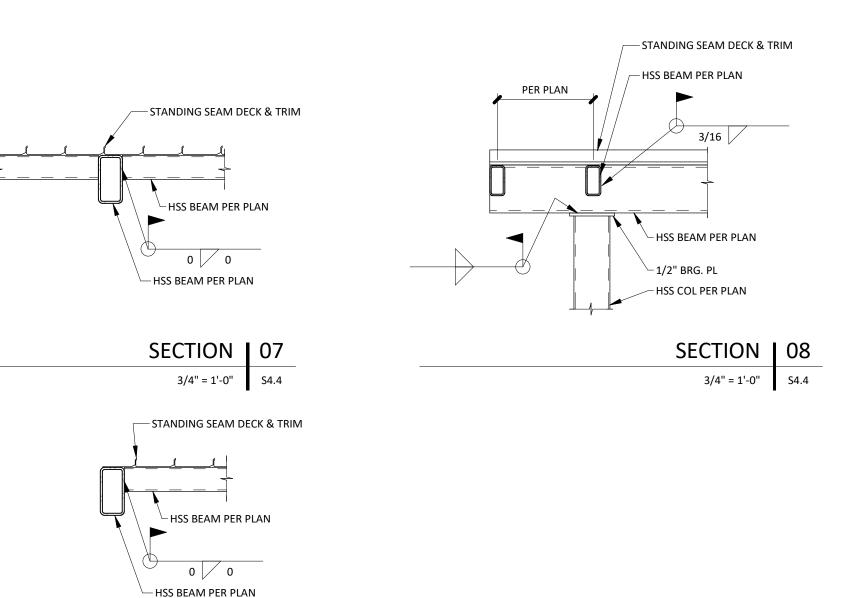
TYPICAL

FRAMING DETAILS

S4.3

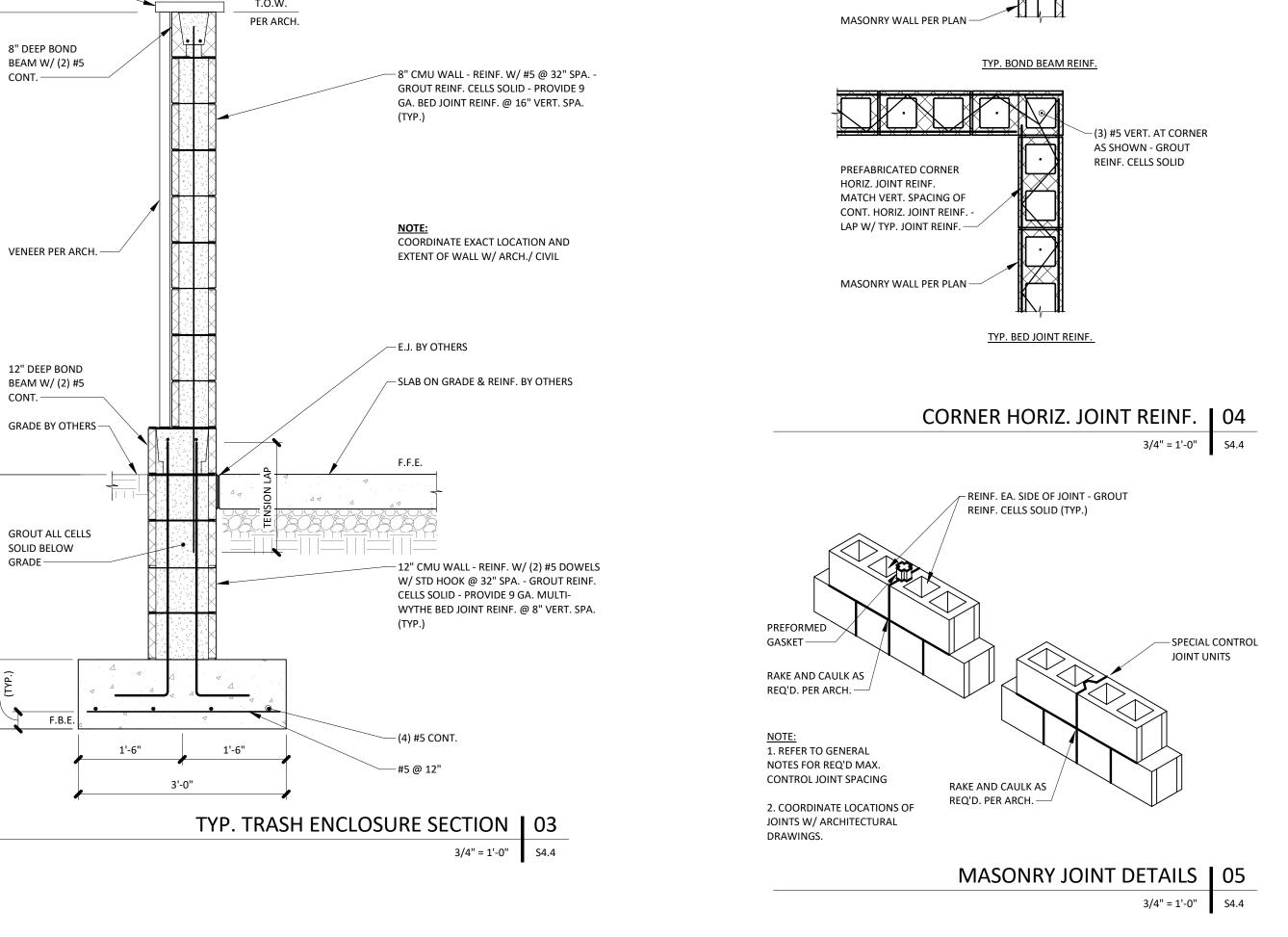


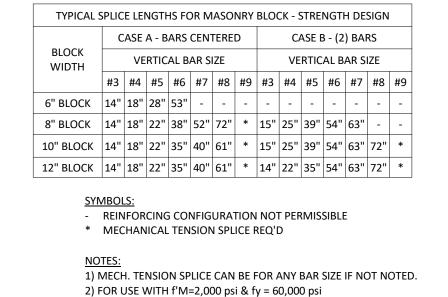




SECTION | 09

3/4" = 1'-0" S4.4





3/4" = 1'-0" S4.4

PROVIDE CORNER BAR AS SHOWN. WHERE SIZE OF BARS DIFFER, CORNER/LAP BAR SHALL MATCH LARGER BAR DIA.

AS SHOWN - GROUT REINF. CELLS SOLID

MASONRY SPLICE TABLE | 06

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- LOT 9 -

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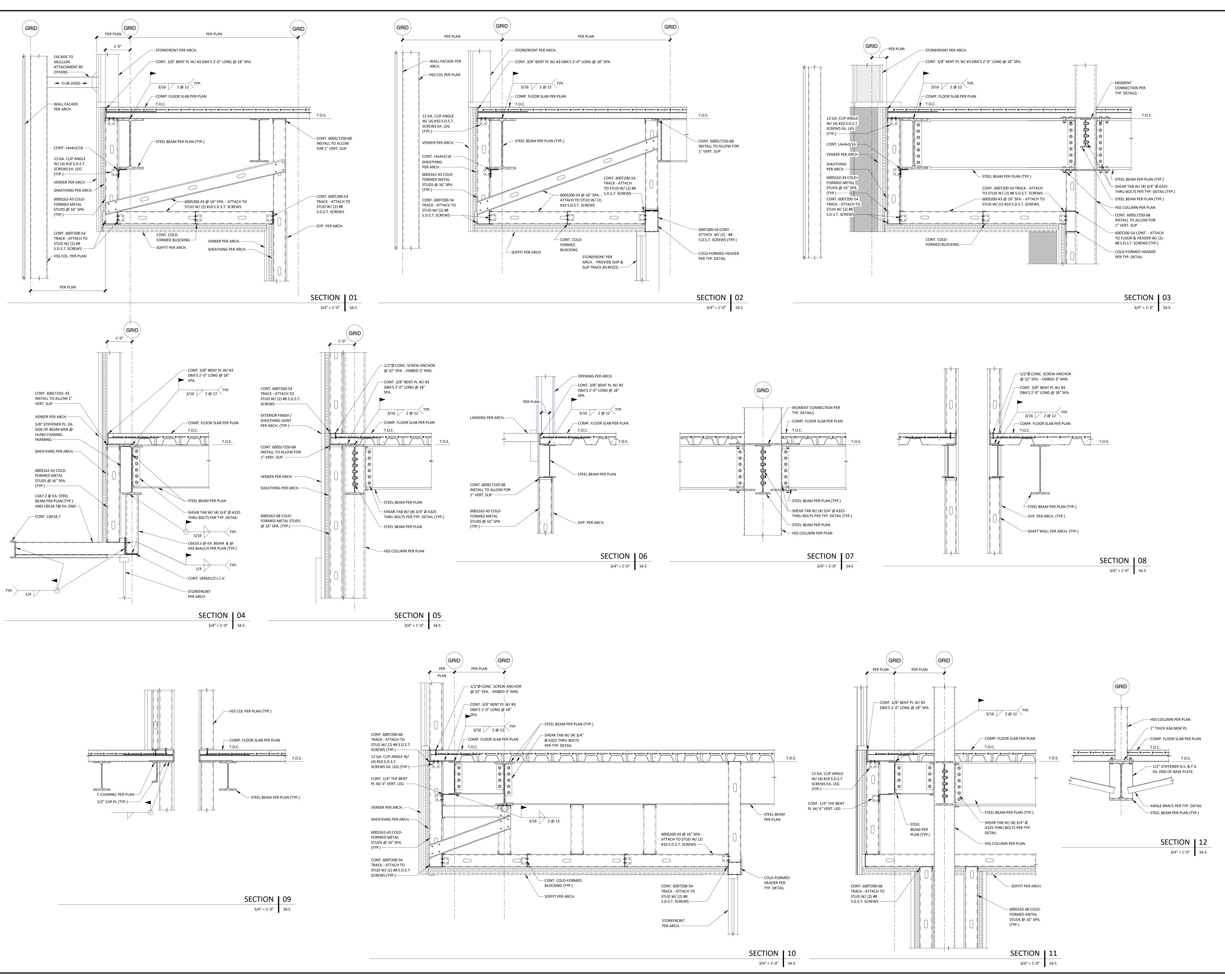
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SHEET TITLE TYPICAL MASONRY DETAILS



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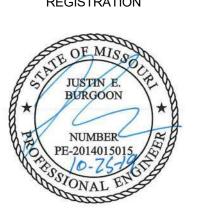
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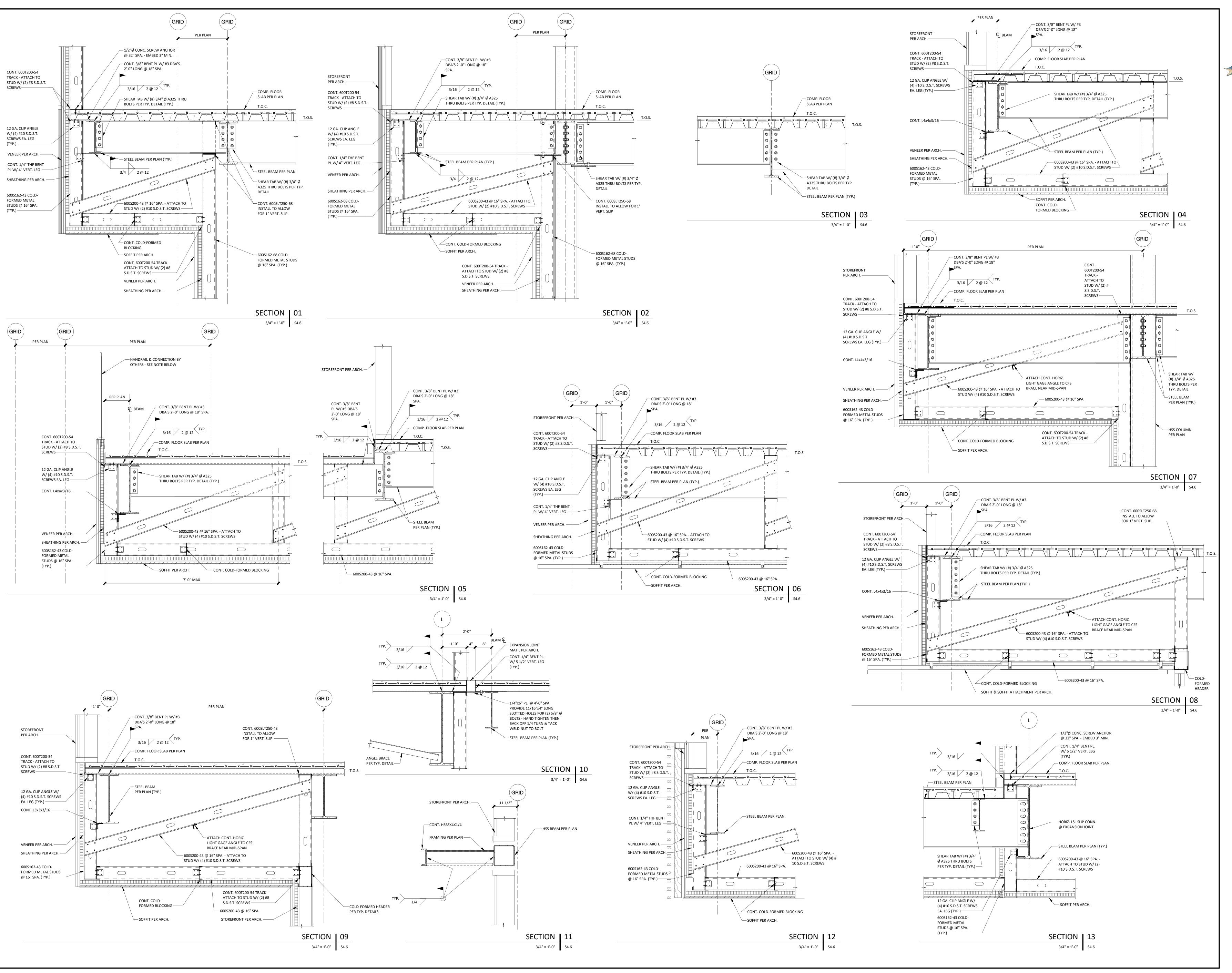
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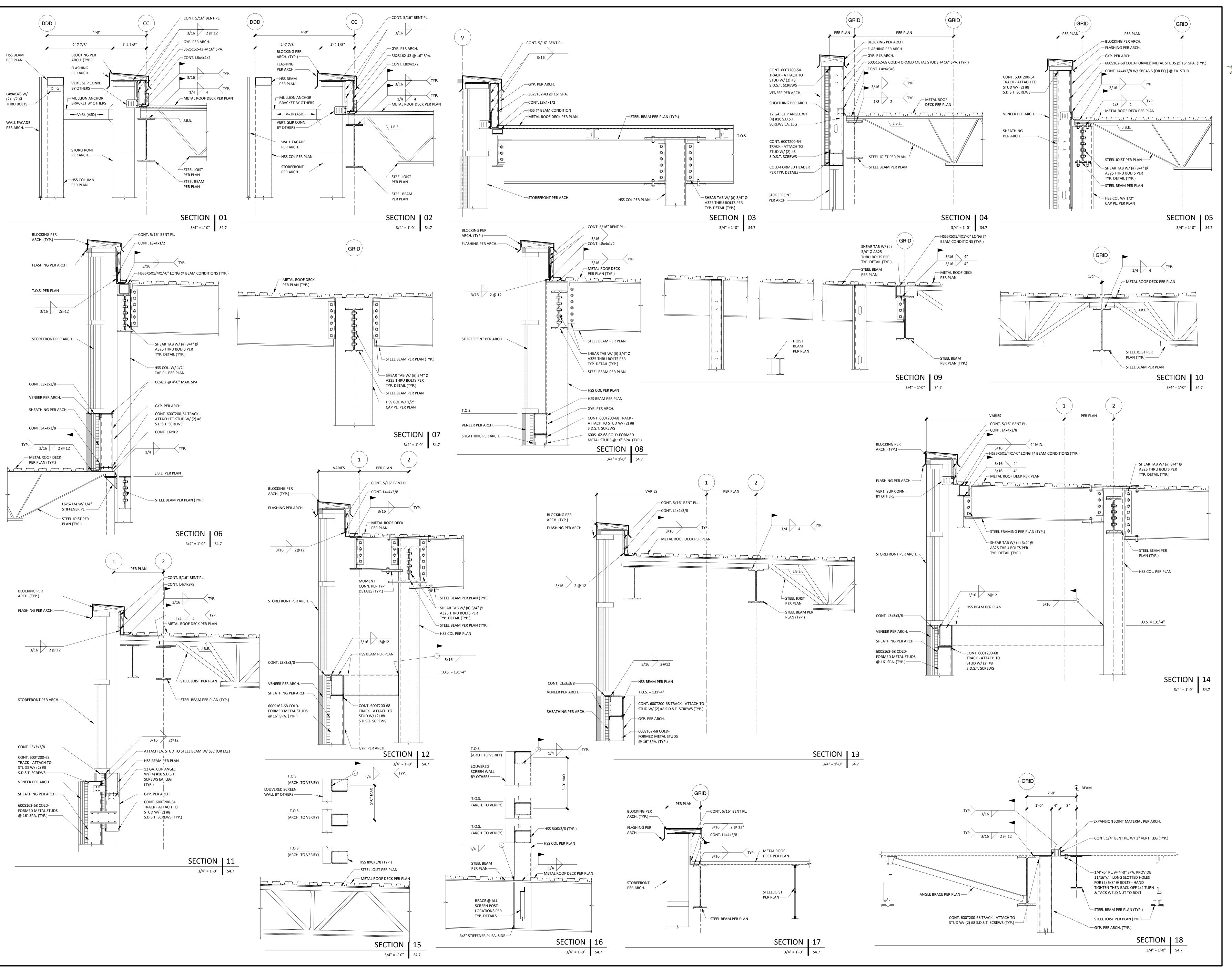
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OF MISSON

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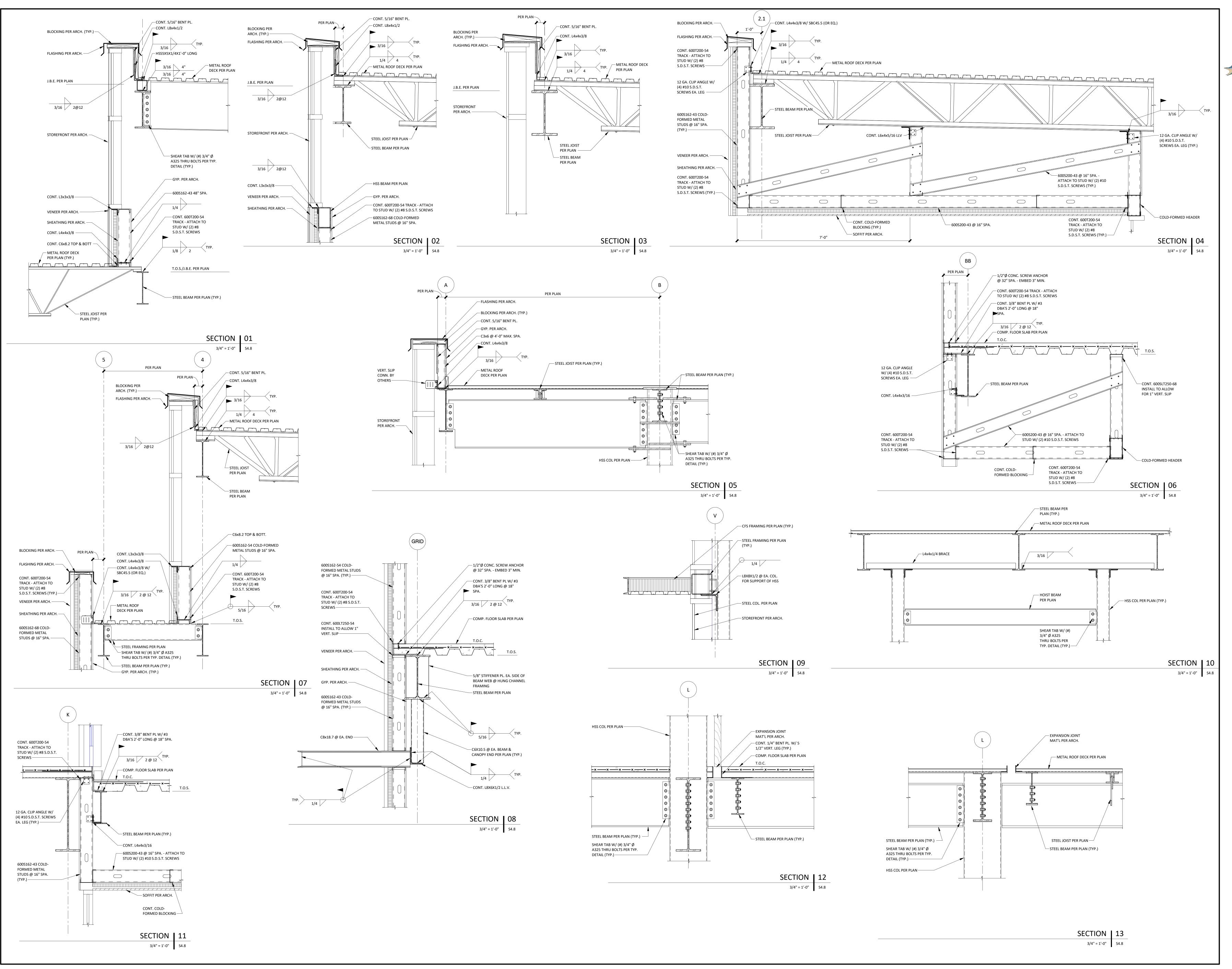
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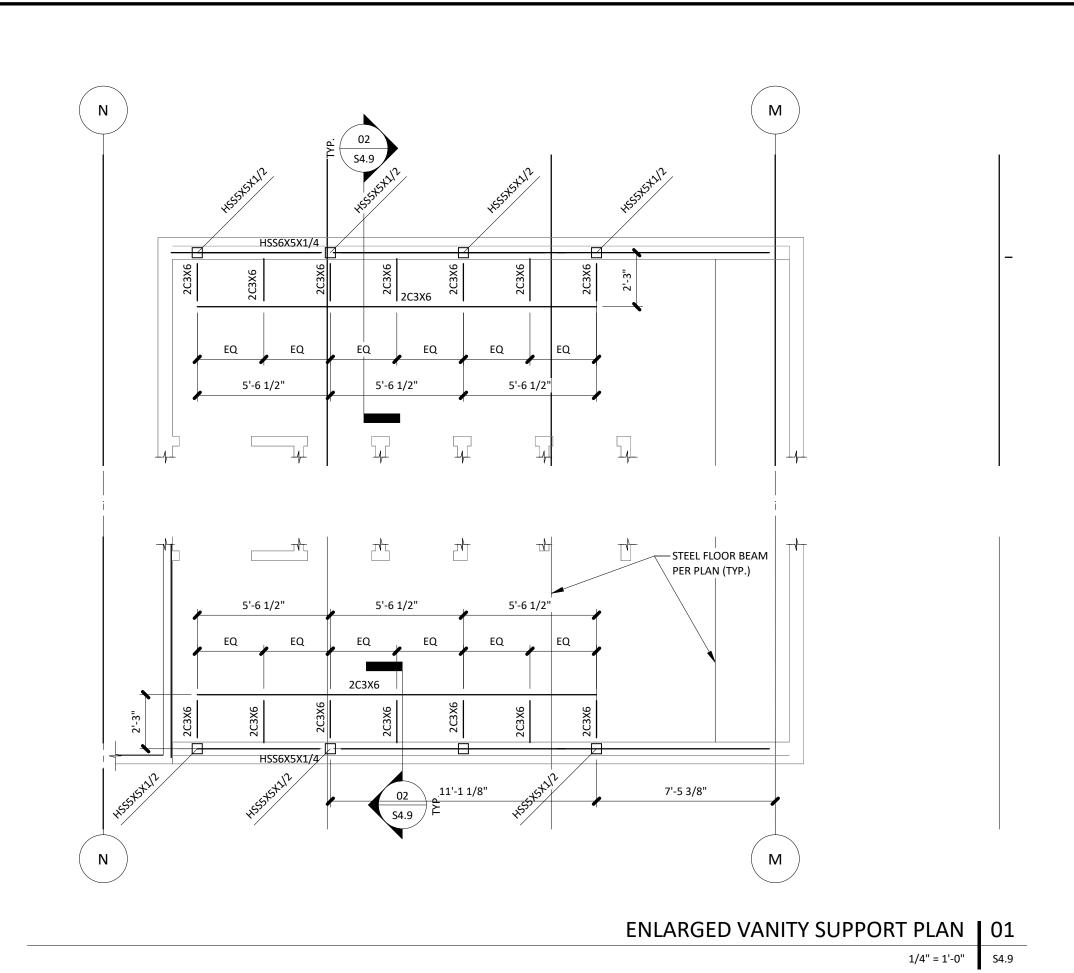
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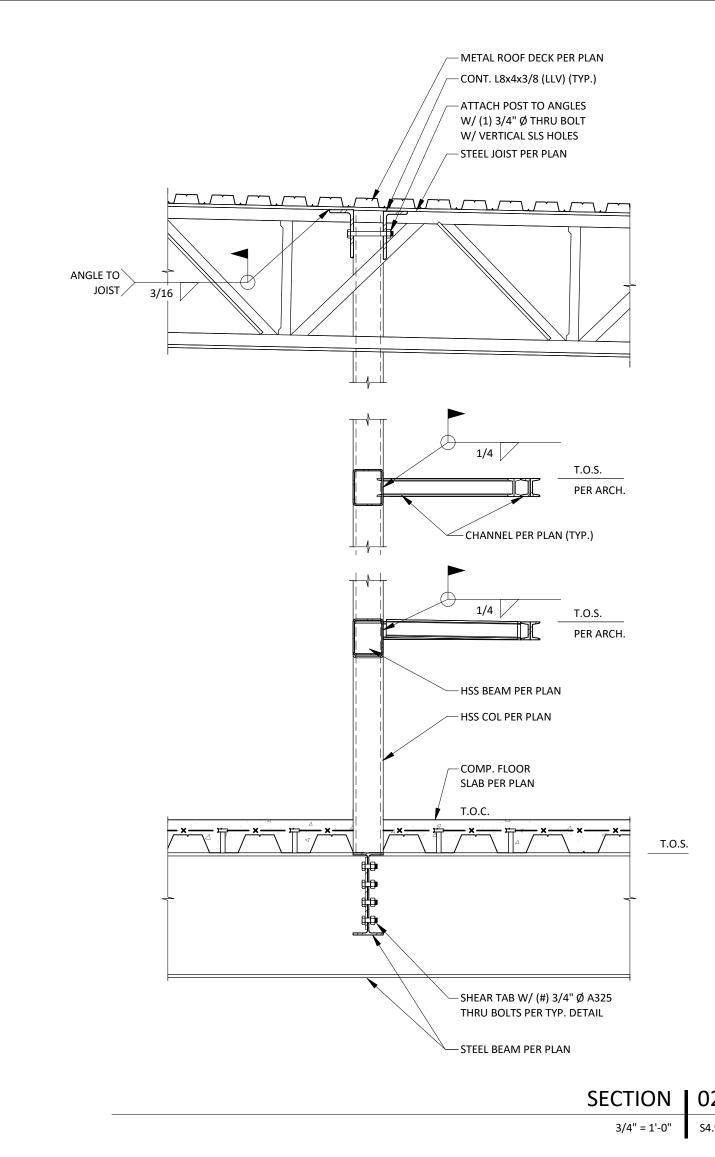
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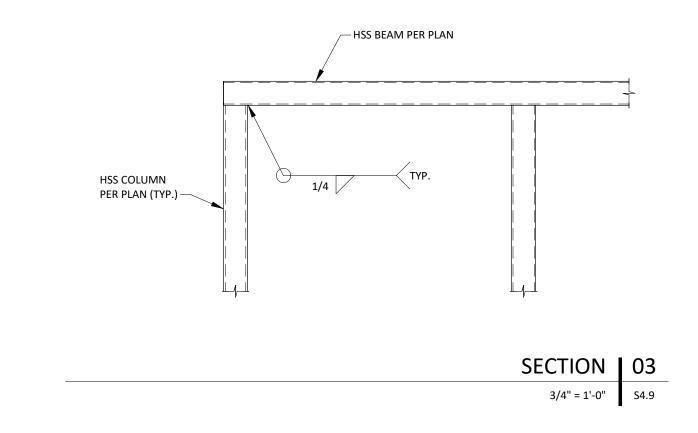
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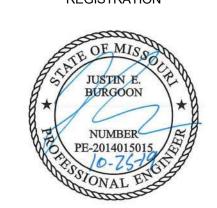




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CIVIL	GBA		
LANDSCAPE	HOERR SCHAUDT / LAND3		
FOUNDATIONS	BSE STRUCTURAL ENGINEERS		
STRUCTURAL	BSE STRUCTURAL ENGINEERS		
PLUMBING	HENDERSON ENGINEERS		
MECHANICAL	HENDERSON ENGINEERS		
ELECTRICAL	HENDERSON ENGINEERS		
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CONTRACTOR	FOGEL ANDERSON		



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S4.9