



Liberty School District – Distribution Center Addendum No: 004 Description Narrative November 01, 2023

This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

A. CONSTRUCTION MANAGER'S FRONT END MANUAL

Reissued Scopes of Work Issued

03-3000 – Concrete – Add 04 26-1000 – Electrcial – Add 04

003001 – CM Site Logistics Sheets

B. OTHER

Bidder Questions Answers

C. SPECIFICATIONS

1. Please reference the attached Addendum No. 004 issued by Hollis + Miller dated November 01, 2023, for updates to Specifications.

D. DRAWINGS

1. Please reference the attached Addendum No. 004 issued by Hollis + Miller dated November 01, 2023, for updates to Drawings.

Please direct any questions regarding the information in this addenda and the project to Newkirk Novak Construction Partners.





PROJECT: N3-0643 COST CODE: 03-3000

Liberty Public Schools-Distribution Center 03-3000 – Concrete Scope of Work – Add 04

Specific scope of work to be performed:

Provide all required labor, material, equipment, permits, layout, freight, and applicable taxes necessary for the **Concrete** Scope of Work complete as set forth in the drawings and specifications by Hollis + Miller Architects dated October 10th, 2023 and all other applicable sections of the project manual and all other subcontract documents identified.

Scope of work includes, but is not limited to, the following specification sections:

- Division 00
- Division 01
- 033000 Cast-In-Place Concrete
- 321313 Concrete Paving

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

- 1. All items per Master Scope of Work.
- 2. All concrete work and associated accessories including but not limited to, form/wreck, shoring, place, finish all concrete shown in the contract documents. This includes but is not limited to footings, grade beams, foundation walls, building walls, slab on grade, columns, equipment/housekeeping and site equipment pads, exterior concrete stoops, concrete pavement, concrete drives, curb & gutter, concrete bollards, wheel stops etc.
- 3. All site concrete, including but not limited to, sidewalks, sidewalk ramps, steps, paving, curb & gutter, flumes, light poles bases, trash enclosure footings, etc. Furnish and install handicap sidewalk ramps as required.
- 4. Install all steel anchor rods required in concrete. These items will be provided by others.
- 5. Provide all materials, equipment, labor, accessories, etc. required to install all reinforcing rebar/steel including dowels for concrete and masonry.
- 6. This contractor is responsible for all layouts and surveying associated with the installation of their work from existing control points.
- 7. Contractor to anticipate under slab electrical rough-in and should include measures to install rock to avoid damage which includes hand work, tele-belting, etc.
- 8. Install expansion joints and controls joints/contraction joints, including performed/isolation joint filler where required. Provide a joint plan for engineer approval prior to performing slab on grade activities.



- 9. Provide all column block outs as required. Infill column block outs with concrete/non-shrink grout as required. Reference structural details.
- 10. This package is to grout all column base plates after erection.
- 11. Include excavation for all structural concrete, pole bases, bollards, etc. Spoils to be stock piled on site at location approved by Contractor. Spoils will be removed from approved stock pile location by Earthwork Contractor.
 - a) Backfill at all concrete walls and foundations to be provided by this Scope of Work unless specifically excluded below.
 - b) This contractor is responsible to repair and replace damaged building pad and surrounding subgrade. All soils, including low volume materials, are to be reinstalled and re-compacted to their original state if damaged during the concrete installation.
 - c) This contractor is responsible for all low volume material placement as required to perform subsequent grading operations as stated above.
- 12. Provide gravel / rock fill under all concrete: site and building per construction documents.
- 13. The earthwork subcontractor is responsible for all excavation, cut, fill, structural fill, and compaction of soils to +/- 1/10 foot based on elevations indicated in the contract documents. The concrete, site utilities, electrical, landscaping & asphalt contractors will be responsible for fine grading after the earthwork contractor establishes grade to within +/- 1/10 foot.
- 14. All footing and underslab insulation shall be by this scope of work, including interior foundation wall insulation.
- 15. Provide under slab insulation and wood isolation under new freezer / cooler area.
- 16. Install all handrails, guards and embedded items to be set in concrete. These items will be provided by others. Grout at emebdded items by this Contractor.
- 17. Sleeves required for penetrations will be furnished by associated contractors and installed by the Concrete Contractor.
- 18. Winter/Summer protection, provisions as required to maintain the project schedule including but not limited to:
 - a) Hotwater/Ice,
 - b) Heaters, Fules, and tarps
 - c) Fire Watch,
 - d) Winter concrete surchages including heated water and admixtures.
 - e) Protection of concrete from heat/frost, freezing and low temperatures
- 19. Include an allowance of (2%) of the contract value to be used at the direction of the construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

1. Concrete paving markings – By Asphalt Contractor.





PROJECT: N3-0643 COST CODE: 26-1000

Liberty Public Schools-Distribution Center 26-1000 – Electrical Scope of Work – Add 04

Specific scope of work to be performed:

• 283111

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Electrical** Scope of Work complete as set forth in the drawings and specifications by Hollis + Miller Architects dated October 10th, 2023 and all other applicable sections of the project manual and all other subcontract documents identified.

Scope of work includes, but is not limited to, the following specification sections:

•	Division 00	
•	Division 01	
•	260500	Common Work Results for Electrical
•	260519	Low-Voltage Electrical Power Conductors and Cables
•	260523	Control-Voltage Electrical Power Cables
•	260526	Grounding and Bonding for Electrical Systems
•	260529	Hangers and Supports for Electrical Systems
•	260533	Raceway and Boxes for Electrical Systems
•	260553	Identification for Electrical Systems
•	260923	Lighting Control Devices
•	260943	Relay-Based Lighting Controls
•	262200	Transformers
•	262416	Panelboards
•	262726	Wiring Devices
•	262813	Fuses
•	262816	Enclosed Switches and Circuit Breakers
•	263213	Engine Generators
•	263600	Transfer Switches
•	264113	Lighting Protection for Structures
•	265119	LED Interior Lighting
•	265219	Emergency and Exit Lighting
•	265619	LED Exterior Lighting
•	280500	Common Work Results for Electronic Safety and Security
•	280513	Conductors and Cables for Electronic Safety and Security

Digital, Addressable Fire Alarm System



JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

- 1. All items per Master Scope of Work.
- 2. Provide electrical make save / cut for existing service demo.
- 3. Provide all site and building electrical.
- 4. Provide conduit raceways and sleeves for the following systems, including but not limited to:
 - a) Temperature Control
 - b) Building Automation System
 - c) Access Control
- 5. Fire Alarm System complete, including but not limited to:
 - a) Furnish of duct detectors. Include final connection and testing. Installation to be my Mechanical Subcontractor.
 - b) Provide and install all new audio/visible devices. If existing device is deemed reusable by district, provide credit for new device.
 - c) Testing of all systems
 - d) System shall interface with security electronics systems. Coordinate with security electronics subcontractor. Provide fire alarm system progroamming and auxiliary contracts as required to allow for fire alarm annunciation/control from the security electronics control panels as specified.
 - e) Provide input and output modules for all equipment that must be monitored/controlled for the purpose of smoke evaculation/pressurization.
 - f) Provide all fire alarm wiring including control and monitoring wire from each input/output module to its corresponding piece of smoke evacuation equipment.
 - g) Testing for fire alarm system in conjunctionwith HVAC contractor, electrical contractor and general contractor to verify accurate function of smoke evacuation/pressurization systems.
 - h) Provide magnetic door holds devices.
- 6. Electrical service to other MEPT systems, including but not limited to:
 - a) Line voltage interlock wiring for mechanical system
 - b) Starters and disconnect switches
 - c) Unit heaters
 - d) Plumbing fixtures
 - e) Duct detectors
 - f) Pre action system
 - g) Variable frequency drives and/or controllers furnish by MEP subcontractors
- 7. Provide temporary electrial services to the Project, including but not limted to
 - a) 100A service to feed temporary construction power
 - b) Provide connections to Construction Managers trailer.
 - c) Provide and maintain temporary electrical services for construction purpose to within 100' of all construction areas.

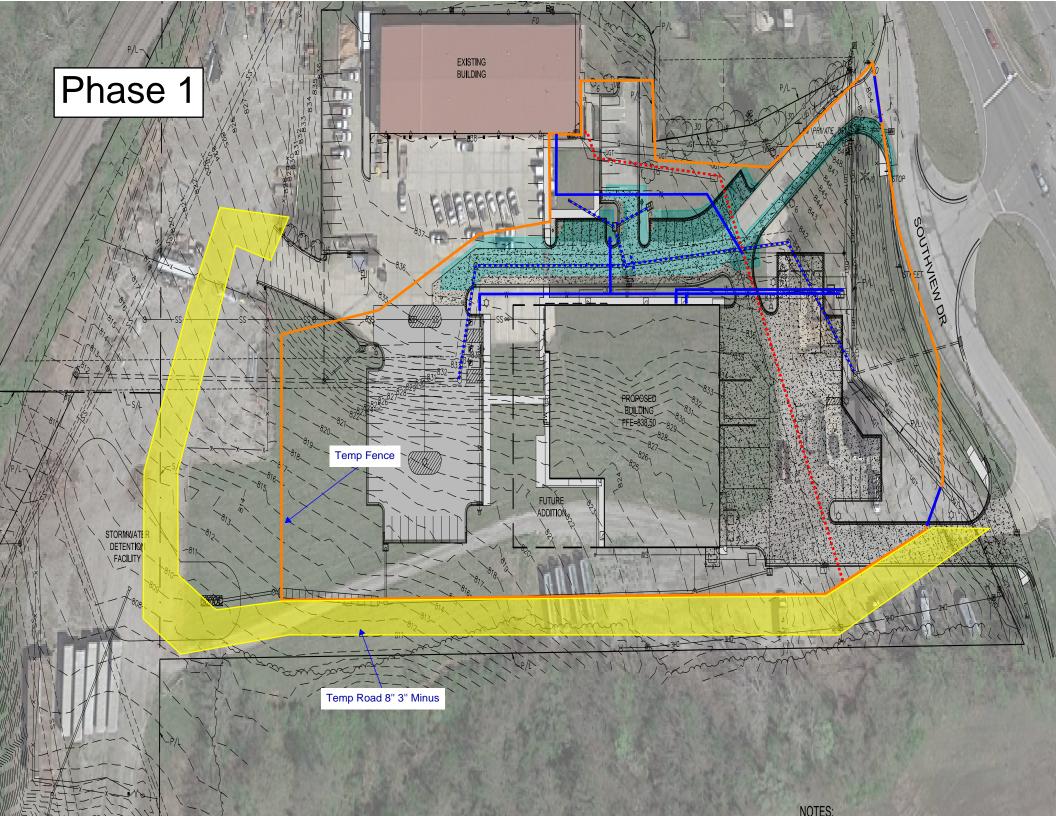


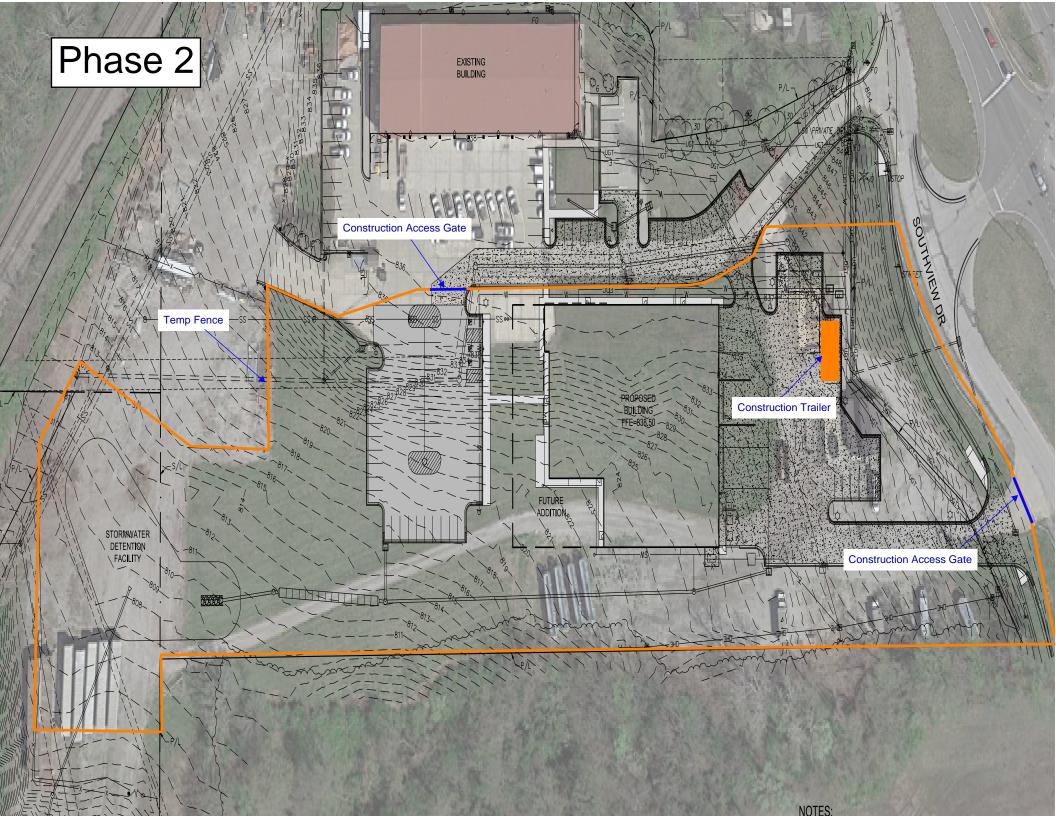


- d) Power for mason saws and other trade equipment
- e) Dismantle and remove all temporary services when no longer required.
- f) Roofing operations
- g) Communications raceway and cabling to Contractors trailer
- h) Provide temp lighting in building spaces until permanent lighting is installed.
- 8. Provide and install all power requirements and electrical connections to all equipment, furnishings, etc. requiring electric power including but not limited to, indicated or not indicated hadicap assist door operators, magnetic hold-open devices, all disconnects, other systems requiring power, etc.
- 9. Provide power and final electrical hookup as needed for residentail appliances.
- 10. Provide and set all roof penetrations as required for the work of this contractor. Pentrations will be flahsed in and made weather tight by roofing contractor.
- 11. Spoils generated by this scope to be stored at onsite locations approved by Contractor. Spoil removal to be by earthwork subcontractor.
- 12. Install owner supplied items, such stored smart boards and projectors.
- 13. Provide and install all access control cabling, devices, etc. complete.
- 14. Provide and install all video surveillance eabling, devices, etc. complete.
- 15. This contract is to provide and install all fixtures, devices, raceway, unistrut etc. needed for exterior and interior lighting and any site electrical work.
- 16. This contractor will be required to pull permits for all work as required.
- 17. Provide an allowance equal to (2%) of the contract value amount. Any unused portions will be returned to the owner.

The following work is excluded:

Data / Communications Cabling and Conduit





Construction Manager: Newkirk Novak Construction Partners Liberty School District - Distribution Center Question Log

Architect: Hollis Miller Date: 11/1/2023

Question Issued By:	# Discipline	Scope of Work	k Date Drawing / De	tail# Question	Response	Answered By	Date Answered Issued Add	dendum
Pro-Mechanical	1 Plumbing	Plumbing	10/20/2023	Kitchen drawings call out call for floor sinks. The plumbing drawings call for floor drains. Please clarify.	Please provide floor sinks and floor drains as designed and specified by the foodservice designer	Brian Levy	11/1/2023 Add 04	chadiii
Industrial Sales	2 Civil	Landscaping	10/26/2023	The drawings do not indicate a limits of irrigation or where the point of connection for the system is located. Can you provide me with any information.	The limits of irrigation have been added to the Landscape Plans as a boundary The point of connection for the system has been added to the Utility Plans. It is planned that a new irrigation tap will be supplied from the Public Main for the irrigation system.	Braden T.	11/1/2023 Add 04	
NNCP	4 Arch / Structural	Multiple	10/26/2023	S202/2 Shows a Stem Wall. S100 does not show top of wall elevation only shows top of footing. AS102/J4 Shows no Stem Wall. Please clarify intent and elevations as applicable.	Use the structural detail S202/2 for the footing and stem wall. use details on AS102 for material finish and final elevation.	Shea E	11/1/2023 Add 04	
NNCP	5 Arch / Structural	Multiple	10/26/2023	AS102/A1 - Height of enclosure is shown as dependent on trash dumpster. Please provide assumed height for bidding purposes. This affects numerous trades quantity takeoffs.	Please review detail P12/AS102 & J4/AS102.	Shea E	11/1/2023 Add 04	
Royal Construction	6 Arch	Carpentry	10/26/2023	123200 1.5.A & B – There are no LEED requirements, so I am assuming that FSC materials are not required. Please confirm.	No FSC material required for casework.	Shea E	11/1/2023 Add 04	
Royal Construction	7 Arch	Carpentry	10/26/2023	123200 2.7.B — Please confirm 120Deg Concealed hinges are what is wanted on this project. This differs from the majority of School Projects.	Continue with the 120Deg concealed hinges as specified.	Shea E	11/1/2023 Add 04	
DH Pace	8 Arch	Carpentry	10/26/2023	Door 08113.A01 mentions a steel stiffener core and Manufactures standard kraft-paper honeycomb core on page 08113-3 of the specs. Please advise what core to use on these doors.	See attached updated specs.	Shea E	11/1/2023 Add 04	
Gaf	9 Arch	Roofing	10/27/2023	Substitution Request for EverGuard TPO	Substitutions was not accepted	Shea E	11/1/2023 Add 04	
Builders Steel	10 Arch	Steel	10/27/2023	The spec for the horizontal sliding mezzanine gate indicates that the gate is to be stainless steel. The guardrail at the mezzanine is indicated as mild steel. Please verify that the guardrail is to be mild steel and the gate is to be stainless.		Shea E	11/1/2023 Add 04	
NNCP	11 MEP	HVAC	10/27/2023	Please confirm Approved RTU HVAC Manufacturers. Approved manufactures on this job have differed from previous bid in district.	RTU manufacturers will be clarified in Addendum #4	Matt H.	11/1/2023 Add 04	
Cornell Roofing	12 Arch	Roofing	10/30/2002 3	075423 - Please advise if a substrate board and or vapor barrier are required.	No, a substrate and/or vapor barrier will not be required.	Brandon M	11/1/2023 Add 04	
Turf Design	13 Civil	Landscaping	10/30/2023	Is there an existing irrigation system, if so do you know the mainline size as well as current zones and where the system ends?	Yes, there is an existing system. No information is known regarding sizes, zones, or existing system limits.	Braden T.	11/1/2023 Add 04	
RRI INC Midwest	14 Arch	Waterproofing	10/31/2023	Substitution Request for AVM Aussie Mate 580-PL.	Substitution was not accepted	Shea E	11/1/2023 Add 04	
HME, Inc	15 Arch	Coatings	10/31/2023	 Columns are high performance coatings which will be shop primed with Macropoxy 646. The beams at the second floor, mezzanine, and roof will be shop primed with SW Pro Cryl primer I'm assuming the canopy steel will be Pro Cryl primer as well? Or does this need to be galvanized? A623/A1 shows braced frames and girts that are exposed with HP1 coating. Are we to assume all braced frames and girts are high performance coatings or only at this location? Do you know what version of Macropoxy primer they are wanting for the high performance coatings? The Macropoxy 646-100 called out in the specs is higher priced than the "fast cure" option our rep recommends. If we can use the fast cure option it would provide some savings. The specs callout NOMMA 1 finish for exposed stairs and rail, but then later state NOMMA 3 finish for industrial class stairs. Since both stairs are grating tread stairs is it safe to assume they are both industrial class stairs and only need NOMMA 3 finish for both the stairs and rail? On A142 the details say RE: M7/A142 for beam penetrations thru metal panel, but there is no detail M7. Is this scheduled to come out in an addendum? The specs call for welded connections lower than 25' AFF to be NOMMA 1 finish. Do we know if or where this applies? 	 Use the specified Macropoxy 646-100. NOMMA 3 finish is acceptable for both stairs and rail. Detail has been revised. Reference H10/A361 for detail. At all exposed welded connections below 25'. the majority of the connections will be at exposed cross bracing and the mezzanine. 	Shea E	11/1/2023 Add 04	
Кроху	16 Arch	Coatings		Please provide clarification on what surfaces 071900.A02 Anti-Graffiti is going on project.	The Anti-Graffiti coating is only applied to the block walls of the trash enclosure.	Shea E	11/1/2023 Add 04	
IBC. Inc	17 Arch	Racking		105629 - Pallet Racking - No Manufactuer / s are listed in the project specifications. No hight of racking, details, provided. Please provide basis of design and heights of racking, height between racks, etc.	Refer to updated specs in the addendum.	Shea E	11/1/2023 Add 04	



ADDENDUM NO. 04

Issued: November 01, 2023

Project: Liberty Distribution Center

Project No. 23021

Owner: Liberty Public Schools

8 Victory Lane

Liberty, Missouri 64068

Bidding Documents Issued: August 31, 2023

This Addendum includes these 3 pages and the following attachments:

Project Manual:

Reissued Section 000105 "Certifications Page" consisting of 2 pages. Reissued Section 000110 "Table of Contents" consisting of 6 pages. Reissued Section 104100 "Signage" consisting of 12 pages.

Drawings:

Revised Architectural Sheets: G000, AS101, A142, A701, A711, and A720 New Architectural Sheet A721 Refer to MKEC, Civil Addendum No. 4 Refer to Bob D. Campbell, Structural Addendum No. 4 Refer to Smith & Boucher, MEP Addendum No. 4

PROJECT MANUAL REVISIONS

A1 SECTION 000005 – CERTIFICATIONS PAGE

A1.1 REPLACE existing Section 000005 "Certifications Page" with the attached revised Section 000005 "Certifications Page", dated November 01, 2023.

A2 SECTION 000110 - TABLE OF CONTENTS

A2.1 REPLACE existing Section 000110 "Table of Contents" with the attached revised Section 000110 "Table of Contents", dated November 01, 2023.

A3 SECTION 101400 - SIGNAGE

A3.1 REPLACE existing Section 101400 "Signage" with the attached revised Section 101400 "Signage", dated November 01, 2023.

A4 SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

- A4.1 REVISE Clause 2.3.B.2.e in Section 081113 "Hollow Metal Doors and Frames" as follows:
 e. Core: Manufacturer's standard mineral-board core for fire-rated doors.
- A4.2 REVISE Clause 2.3.C.2.e in Section 081113 "Hollow Metal Doors and Frames" as follows:



- e. Core: Manufacturer's standard mineral-board core for fire-rated doors.
- A4.3 ADD Clause 2.3.C.2.h to Section 081113 "Hollow Metal Doors and Frames" as follows: e. Core: Manufacturer's standard vertical steel stiffener.

A5 SECTION 088000 - GLAZING

- A5.1 ADD Subparagraph 2.10.C as follows:
 - C. Fire-Rated Glazing: Provide glazing gaskets, glazing accessories, glazing tapes, setting blocks, spacers, edge blocks, and other glazing accessories that are compatible with glazing products and each other and are approved by testing agencies that listed and labeled fire-resistant glazing products with which products are used for applications and fire protection ratings indicated.
- A5.2 ADD Subparagraph 2.11.D as follows:
 - D. Glazing Sealants for Fire-Rated Glazing Products: Neutral-curing sealant complying with ASTM C 920, Type S, Grade NS, Class 50, Use NT. Comply with sealant and glass manufacturer's written instructions for selecting glazing sealants suitable for applications indicated.
 - a. Colors or Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.

A6 SECTION 105629 – PALLET STORAGE RACKS

- A6.1 ADD Paragraph 2.1.B, and subsequent subparagraphs, as follows:
 - A. Provide pallet storage racks meeting system requirements by one of the following manufacturer's:
 - 1 Bulldog Rack Company
 - 2 Tri-Boro Shelving
 - 3 Ridg-U-Rak Storage Systems
- A6.2 REPLACE "by height indicated on Drawings" in Clauses 2.4.B.2.a & 2.4.B.2.b with "228 inches high."
- C1 REFERENCE ATTACHED CIVIL ADDENDUM NO. 4
- M1 REFERENCE ATTACHED MEP ADDENDUM NO. 4

DRAWINGS REVISIONS

- A7 SHEET G000
 - A7.1 Updated sheet index
- A8 SHEET AS101
 - A8.1 ADDED locations for sign types W01-W04

A9	SHEET	A142

A9.1 Updated annotations on details K1/A142 & K11/A142

A10 SHEET A701 – ARCHITECTURAL EGD SHEETS

A10.1 ADDED sign X07 to floor plan.

A11 SHEET A711

A11.1 ADDED sign X07 to "ENVIRONMENTAL GRAPHICS SCHEDULE"

A12 SHEET A720

- A12.1 REVISE elevation of title block K1 to include sign X07.
- A12.2 REVISE sheet keynote legend

A13 SHEET A721

A13.1 ADDED Sheet with detail of sign types W01-W04 to project.

- C2 REFERENCE ATTACHED CIVIL ADDENDUM NO. 4
- S1 REFERENCE ATTACHED STRUCTURAL ADDENDUM NO. 4
- M2 REFERENCE ATTACHED MEP ADDENDUM NO. 4

END OF ADDENDUM NO. 04



LIBERTY DISTRIBUTION CENTER

ADDENDUM 04

November 1, 2023

The following are a summary of addendum items:

C101:

Updated sheet view for changes with Addendum 4.

C104:

Added irrigation line tap location and notes.

C109:

Provided additional sliding gate information.

Added paving notes 20, 21, 22.

Revised the location and callouts for perimeter fencing.

• Added mow strip beneath sliding gates.

Added sidewalk to north side of northern driveway.

C110:

Revised the location and callouts for perimeter fencing.

C111:

Revised grading around the sliding gates at the driveways.

C202:

Added mow strip detail to plans.

C206:

Added sliding gate cut sheet details.

L100:

Added boundary to plan for limits of irrigation.

L101:

Added boundary to plan for limits of irrigation.

smith & boucher engineers

Addendum #4

Liberty Public Schools Distribution Center Smith & Boucher Project No. 2314705

11.01.2023

To Documents Titled:

Liberty Public Schools Distribution Center 08.31.2023

Architect-of-Record:

Hollis & Miller 1828 Walnut Street Suite 922 Kansas City, MO 64108

The Contract Documents for the above referenced project and the Work covered thereby are modified as described herein.

SPECIFICATIONS

- 1. Section 237416.11 Packaged, Small-Capacity, Rooftop Air-Conditioning Units
 - a. PART 2 (2.1)(A): REVISE to read:
 - A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Trane.
 - 2. Aaon.
 - 3. Daikin Applied.
 - 4. Lennox.
- 2. Section 237416.13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units
 - a. PART 2 (2.1)(A): REVISE to read:
 - A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Trane.
 - 2. Aaon.
 - 3. Daikin Applied.
 - 4. Lennox.
- 3. Section 275116 Public Address System
 - a. PART 1(1.1)(B)(5)(b): REVISE bullet 'b' to say, "Operation: (2) zones: (1) for each 2-way speaker".

DRAWINGS

- 4. Sheet ME201 Site Plan Mechanical and Electrical
 - a. ADD (3) 'P7' and (1) 'P6' type light fixtures to the site plan.
 - b. ADD (4) 120V cameras mounted to the (4) new pole lights.
 - c. ADD plan notes 22 and 23.
- 5. Sheet ME202 Mechanical and Electrical Roof Plan
 - a. ADD (6) data outlets. See sheet for revisions.
 - b. REVISE plan note 5.
- 6. Sheet E201 Overall Power Plan Level 1



President Chris Beverlin, P.E.

Clark A. Basinger, P.E. Michael J. Falbe, P.E. Richard C. Crabtree, P.E. Wayne E. Davis, P.E. Jeffrey L. Wright, P.E. Christopher W. Boos, P.E. Brandon M. Ford, P.E. Steven Brooks, P.E. Ryan Hagedorn, P.E.

Administrative Manager James M. Spena

Liberty Public School Distribution Center Addenda 04 – Structural Narrative

SHEET S003 - SCHEDULES

- 1. Revised Column Base Plate Schedule.
- 2. Revised Structural Foundation Schedule.

SHEET S100 - FOUNDATION PLAN

- 1. Revised plan note at 4" concrete slab.
- 2. Revised footing sizes at braced frames.

- a. ADD power receptacle and (2) CAT6 to (4) new TV locations. See sheet for revisions.
- 7. Sheet E202 Overall Power Plan Mezz Level
 - a. ADD device tag to exterior speakers to show (2) CAT6 data drops needed per device.
- 8. Sheet E302 Electrical Schedules and Detail
 - a. REVISE Lighting Control Panel Schedule. See sheet for all revisions.
 - b. REVISE Light Fixture schedule to include new fixtures 'P6' and 'P7'.
- 9. Sheet E303 Electrical Schedules and Detail
 - a. REVISE Telecommunication Device Schedule. See sheet for revisions.
- 10. Sheet E304 Electrical Schedules and Detail
 - a. REVISE Panel Schedules EP, OP1, P2, and P3. See sheet for all revisions.

Attachments

Sheets listed above.

END OF MEP ITEMS FOR ADDENDUM #4

ADDENDUM 4 PAGE 2 OF 2

SECTION 000105 - CERTIFICATIONS PAGE

ARCHITECT

I HEREBY, PURSUANT TO RSMO 327.411, STATE THAT THE SPECIFICATIONS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO SPECIFICATIONS LISTED BELOW:

DIVISION 1 SECTIONS: 011000, 012100, 012200, 012300, 012500, 012500.01, 013100, 013200, 013233, 013300,

014000, 014200, 014529, 016000, 017419, 017700, 017823, 017839, 017900.

DIVISION 4 SECTION: 042000.

DIVISION 5 SECTIONS: 055000, 055100, 055213. DIVISION 6 SECTIONS: 061000, 061600, 062013.

DIVISION 7 SECTIONS: 071113, 071326, 071900, 072100, 072500, 074213, 074219, 075423, 076200, 077200,

078413, 078413, 078446, 079200.

DIVISION 8 SECTIONS: 081113, 081416, 083323, 083613, 083800, 084113, 087100, **088000**, 088300.

DIVISION 9 SECTIONS: 092116, 092900, 093000, 095113, 096513, 096519, 096813, 098433, 099113, 099123,

099600.

DIVISION 10 SECTIONS: 101400, 101423, 102113, 102310, 102600, 102800, 104300, 104413, 104416, 105629.

DIVISION 11 SECTION: 111300.

DIVISION 12 SECTIONS: 122113, 122413, 123200, 123666, 129300.

DIVISION 32 SECTION: 323119.

I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER SPECIFICATIONS, DRAWINGS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT OR SURVEY.

KEVIN NELSON	NOVEMBER 1, 2023_
ARCHITECT	DATE



DOCUMENT 000110 - TABLE OF CONTENTS

Liberty SD Distribution Center

Project Name:

Project Name.	COOCA	Addendum 01	10.20.2023
Project No.:	23021	Addendum 04	11.01.2023
Site Address	1142 Southview Dr		
City, State Zip	Liberty, Missouri 64068		
		Latest Revision	Original Issue
INTRODUCTOR	RY INFORMATION		
000101	Project Team Directory	10.20.2023	10.10.2023
000105	Certifications and Seals	11.01.2023	10.10.2023
000110	Table of Contents	11.01.2023	10.10.2023
BIDDING REQU			
	(Refer to Construction Manager's Front End Manual for additional		
	Bidding Requirements)		
BIDDING REQU			40.40.0000
003132	Geotechnical Data		10.10.2023
CONTRACTING	REQUIREMENTS		
CONTINACTING			
	(Refer to Construction Manager's Front End Manual for additional Contracting Requirements)		
	Gormaning Hoganomon		
DIVISION 1 – G	ENERAL REQUIREMENTS		
011000	Summary	10.20.2023	10.10.2023
012100	Allowances		10.10.2023
012200	Unit Prices		10.10.2023
012300	Alternates		10.10.2023
012500	Substitution Procedures		10.10.2023
012500.o1	Substitution Procedures Form	10.20.2023	10.10.2023
013100	Project Management and Coordination	10.20.2020	10.10.2023
013200	Construction Progress Documentation		10.10.2023
013233	Photographic Documentation		10.10.2023
	Submittal Procedures		
013300			10.10.2023
014000	Quality Requirements		10.10.2023
014200	References		10.10.2023
014529	Testing and Inspections		10.10.2023
016000	Product Requirements		10.10.2023
017419	Construction Waste Management & Disposal		10.10.2023
017700	Closeout Procedures		10.10.2023
017823	Operation and Maintenance Data		10.10.2023
017839	Project Record Documents		10.10.2023
017900	Demonstration and Training		10.10.2023
D11/10/01/01	ONODETE		
DIVISION 3 – C			40.40.0000
033000	Cast-in-Place Concrete		10.10.2023
DIVISION 4 - MA	ASONRY		
042000	Unit Masonry		10.10.2023
042000	Office Middoffin y		10.10.2020
DIVISION 5 - MI	ETALS		
051200	Structural Metal Framing		10.10.2023
052100	Steel Joist Framing		10.10.2023
053100	Steel Decking		10.10.2023
054000	Cold-Formed Metal Framing		10.10.2023
055000	Metal Fabrications		10.10.2023
055100	Metal Stairs		10.10.2023
055213			10.10.2023
000213	Pipe and Tube Railings		10.10.2023

Revisions

Addendum 01

Date

10.20.2023

		Latest Revision	Original Issue
	WOOD AND PLASTICS		
061000	Rough Carpentry		10.10.2023
061600	Sheathing		10.10.2023
062013	Exterior Finish Carpentry		10.10.2023
DIVISION 7 - T	HERMAL AND MOISTURE PROTECTION		
071113	Bituminous Dampproofing		10.10.2023
071326	Self-Adhering Sheet Waterproofing		10.10.2023
071900	Water Repellents and Sealers		10.10.2023
072100	Thermal Insulation		10.10.2023
072500	Weather Barriers		10.10.2023
074213	Formed Metal Wall and Soffit Panels		10.10.2023
074219	Insulated Metal Wall Panels		10.10.2023
075423	Thermoplastic Polyolefin (TPO) Roofing		10.10.2023
076200	Sheet Metal Flashing and Trim		10.10.2023
077200	Roof Accessories		10.10.2023
078413	Penetration Firestopping		10.10.2023
078446	Fire Resistive Joint Systems		10.10.2023
079200	Joint Sealants		10.10.2023
DIVISION 8 - E	DOORS AND WINDOWS		
081113	Hollow Metal Doors and Frames	11.01.2023	10.10.2023
081416	Flush Wood Doors		10.10.2023
083323	Overhead Coiling Doors		10.10.2023
083613	Sectional Doors		10.10.2023
083800	Traffic Doors		10.10.2023
084113	Aluminum Framed Entrances and Storefronts		10.10.2023
087100	Door Hardware		10.10.2023
088000	Glazing	11.01.2023	10.10.2023
088300	Mirrors		10.10.2023
DIVISION 9 - F	INISHES		
092116	Non-Structural Metal Framing		10.10.2023
092900	Gypsum Board		10.10.2023
093000	Tiling		10.10.2023
095113	Acoustical Panel Ceilings		10.10.2023
096513	Resilient Base and Accessories		10.10.2023
096519	Resilient Tile Flooring		10.10.2023
096813	Tile Carpeting		10.10.2023
098433	Acoustical Wall Units		10.10.2023
099113	Exterior Painting		10.10.2023
099123	Interior Painting		10.10.2023
099600	High-Performance Coatings		10.10.2023
DIVISION 10 -	SPECIALTIES		
101400	Signage	11.01.2023	10.10.2023
101423	ADA and Code Signage		10.10.2023
102113	Toilet Compartments		10.10.2023
102310	Glazed Interior Wall and Door Assemblies		10.10.2023
102600	Wall and Door Protection		10.10.2023
102800	Toilet, Bath & Laundry Accessories		10.10.2023
104300	Emergency Aid Specialties		10.10.2023
104413	Fire Extinguisher Cabinets		10.10.2023
104416	Fire Extinguishers		10.10.2023
105629	Pallet Storage Racks	11.01.2023	10.10.2023

		Latest Revision	Original Issue
DIV ((O)ON 44	COLUDNIENT		
DIVISION 11 - E 111300			10 10 2022
	Loading Dock Equipment Food Service Equipment	10 20 2022	10.10.2023 10.10.2023
114000	Food Service Equipment	10.20.2023	10.10.2023
DIVISION 12 - I	FURNISHINGS		
122113	Horizontal Louver Blinds		10.10.2023
122413	Roller Window Shades		10.10.2023
123200	Manufactured Wood Casework		10.10.2023
123666	Solid Surfacing Countertops		10.10.2023
129300	Site Furnishings		10.10.2023
120000	one i umismingo		10.10.2020
DIVISION 21 -	FIRE SUPPRESSION		
210500	Common Work Results for Fire Suppression		10.10.2023
211313	Wet-Pipe Sprinkler Systems		10.10.2023
DIVISION 22 - F			40.40.0000
220500	Common Work Results for Plumbing		10.10.2023
220513	Common Motor Requirements for Plumbing Equipment		10.10.2023
220516	Expansion Fittings and Loops for Plumbing Piping		10.10.2023
220517	Sleeves and Sleeve Seals for Plumbing Piiping		10.10.2023
220518	Escutcheons for Plumbing Piping		10.10.2023
220519	Meters and Gauges for Plumbing Piping		10.10.2023
220523	General Duty Valves for Plumbing Piping		10.10.2023
220529	Hangers and Supports for Plumbing Piping and Equipment		10.10.2023
220553	Identification for Plumbing Piping and Equipment		10.10.2023
220719	Plumbing Piping Insulation		10.10.2023
221116	Domestic Water Piping		10.10.2023
221119	Domestic Water Piping Specialties		10.10.2023
221316	Sanitary Waste and Vent Piping		10.10.2023
221319	Sanitary Waste Piping Specialties		10.10.2023
223400	Fuel- Fired, Domenstic Water Heaters		10.10.2023
224000 224700	Plumbing Fixtures		10.10.2023 10.10.2023
224700	Drinking Fountains/Water Coolers		10.10.2023
DIVISION 23 - I	HEATING, VENTILATING AND AIR CONDITIONING		
230500	Common Work Results for HVAC		10.10.2023
230513	Common Motor Requirements for HVAC Equipment		10.10.2023
230548	Vibration Controls for HVAC		10.10.2023
230553	HVAC System Identification		10.10.2023
230593	Testing, Adjusting, and Balancing		10.10.2023
230713	Duct Insulation		10.10.2023
230719	HVAC Piping Insulation		10.10.2023
230900	Instrumentation and Control for HVAC		10.10.2023
231123	Facility Natural-Gas Piping		10.10.2023
232300	Refrigerant Piping		10.10.2023
233113	Metal Ducts		10.10.2023
233116	Nonmetal Ducts		10.10.2023
233300	Duct Accessories		10.10.2023
233416	Centrifugal HVAC Fans		10.10.2023
233423.01	HVAC Dust Collector		10.10.2023
233600	Air Terminal Units		10.10.2023
233713	Diffusers, Registers, and Grilles		10.10.2023
237416.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units		10.10.2023
237416.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units		10.10.2023
238126	Split-System Air-Conditioners		10.10.2023
238239.13	Cabinet Unit Heaters		10.10.2023

		Latest Revision	Original Issue	
DIVISION 26 - E	LECTRICAL			
260500	Common Work Results for Electrical		10.10.2023	
260519			10.10.2023	
	Low-Voltage Electrical Power Conductors and Cables Central Voltage Electrical Power Cables		10.10.2023	
260523	Control-Voltage Electrical Power Cables			
260526	Grounding and Bonding for Electrical Systems		10.10.2023	
260529	Hangers and Supports for Electrical Systems		10.10.2023	
260533	Raceway and Boxes for Electrical Systems		10.10.2023	
260553	Identification for Electrical Systems		10.10.2023	
260923	Lighting Control Devices		10.10.2023	
260943	Relay-Based Lighting Controls		10.10.2023	
262200	Transformers		10.10.2023	
262416	Panelboards		10.10.2023	
262726	Wiring Devices		10.10.2023	
262813	Fuses		10.10.2023	
262816	Enclosed Switches and Circuit Breakers		10.10.2023	
263213	Engine Generators		10.10.2023	
263600	Transfer Switches		10.10.2023	
264113	Lightning Protection for Structures		10.10.2023	
265119	LED Interior Lighting		10.10.2023	
265219	Emergency and Exit Lighting		10.10.2023	
265619	LED Exterior Lighting		10.10.2023	
DIVISION 27 - 0	COMMUNICATIONS			
270000	District Communications Specifications (LPS Standard)	10.20.2023	10.10.2023	
270500	Common Work Results for Communications		10.10.2023	
270526	Grounding and Bonding for Communications Systems		10.10.2023	
270536	Cable Trays for Communications Systems		10.10.2023	
275116	Public Address System		10.10.2023	
DIVISION 28 - E	LECTRONIC ACCESS CONTROL AND INTRUSION DETECTION			
280500	Common Work Results for Electronic Safety and Security		10.10.2023	
280513	Conductors and Cables for Electronic Safety and Security		10.10.2023	
283111	Digital, Addressable Fire-Alarm System		10.10.2023	
DIVISION 31 - E			10.10.0000	
311000	Site Clearing		10.10.2023	
312000	Earth Moving		10.10.2023	
DIVISION 32 - E	XTERIOR IMPROVEMENTS			
321216	Asphalt Paving		10.10.2023	
321313	Concrete Paving		10.10.2023	
321373	Concrete Paving Joint Sealants		10.10.2023	
323113	Chain Link Fences and Gates	10.20.2023	10.10.2023	
323119	Decorative Metal Fences and Gates		10.10.2023	
DIVISION 33 - UTILITIES				
331100	Water Utility Distribution Piping		10.10.2023	
333100	Facility Sanitary Sewers		10.10.2023	
334100	Storm Utility Drainage Piping		10.10.2023	
50 + 100	Storm Stanty Drainage Fighing		10.10.2020	

END OF TABLE OF CONTENTS

SECTION 101400 - SIGNAGE

PART 1 GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - Signage:
 - a. Flat Cut:
 - 1) Standard (101400.A30).
 - b. Film:
 - Solid color vinvl (101400.A43).
 - c. Specialty (101400.A71):
 - d. Post and Panel Signage:
 - 1) Non-illuminated Post (101400.A90).
 - 2) Non-illuminated Panel (101400.A92).
- B. Related Sections include the following:
 - Section 015000 "Temporary Facilities and Controls" for temporary Project identification signs and for temporary information and directional signs.
 - 2. Section 033000 "Cast-In-Place Concrete" for concrete signage footings.
 - 3. Section 051200 "Structural Steel Framing" for steel posts at signage.
 - 4. Section 061000 "Rough Carpentry" for signage blocking.
 - 5. Section 064023 "Interior Architectural Woodwork"
 - 6. Section 099123 "Interior Painting" for painting behind vinyl film signage.
 - 7. Section 099600 "High Performance Coatings" for painting of graphics on precast walls.
 - 8. Section 101423 "ADA and Code Signage" for related graphic substrate.

1.2 DEFINITIONS

- A. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."
- B. Final Artwork: High resolution digital files to be used for production (including digital printing).
 - 1. Graphics shown in drawings are placeholders only.
 - 2. Final artwork to be supplied by Designer (or architect), after approval from Owner, to Signage contractor.
 - 3. Signage Contractor to use final art in creating shop drawings for approval by Designer,
- Signage Contractor: Contractor responsible for the fabrication and installation of signage unless responsibility for fabrication or installation is called out by others in the drawings.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-installation Conference: Conduct conference at Project site.
 - Review and finalize construction schedule including submittals, engineering, fabrication and installation.
 Verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review temporary protection requirements for during and after installation.
 - 3. Architect to work with Contractor to arrange the meeting. Architect to set agenda and run the meeting.
- B. Signage Contractor is responsible for obtaining all required signage permits.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Including but not limited to, the following:

- Manufacturer's technical product data for each type of product specified. Include data on physical characteristics, durability, fade resistance, flame resistance and manufacturing process.
- 2. Product data shall show compliance with requirements for fire performance characteristics and physical properties.
- B. Shop Drawings: Submit shop drawings for fabrication and erection of signs and supports. Include plans, elevations, and large scale details of sign wording and lettering layout. Include large scale sections of typical members and other components.
 - 1. Show fabrication joints and fasteners. Show anchors, grounds, reinforcement, accessories, layout, and installation details including attachments to other work. Indicate materials and profiles of signage fittings, joinery, finishes, fasteners, anchorages, and accessory items.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - 3. Based on Message Schedule approved by Owner, provide sign layouts for all signs:
 - Indicate message line breaks.
 - b. Include large scale details of signs wording and lettering layout, pictograms (arrows and symbols), artwork, and Braille layout.
 - c. Include outline of sign face, character spacing, line spacing, and copy composition.
 - d. Submit product data simultaneously for overall review and comparison prior to fabrication.
 - 4. Include a panel map for each vinyl film sign to coordinate installation.
 - Field Dimensions shall be obtained, reviewed, and accepted by signage manufacturer prior to submittal of shop drawings. Refer to Article 1.4.I. "Field Dimensions for Environmental Graphics."
 - 6. For signage required to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 - 7. Wiring Diagrams: For illuminated signs and illuminated characters. Include locations of transformers and disconnect switches.
 - 8. For signs supported by or anchored to permanent construction, provide setting drawings, full-size spacing templates, and directions for installation of anchor bolts and other appropriate anchors to be installed.
 - 9. Submit drawings in 11 inch by 17 inch format unless otherwise requested by the Architect.
 - 10. Submit all shop drawings as a single package by Signage Contractor.
- C. Sign Schedule: Use same designations indicated on Drawings.
- D. Samples for Verification:
 - Submit an 8 inch by 10 inch sample of each material showing finishes, colors, surface textures and qualities
 of manufacturer and design of each component including graphics.
 - a. X01: 1/2 Scale sample of letter S.
 - b. X02: 1/2 Scale sample of number 4.
 - c. X03: Full scale sample.
 - d. X04: Full scale sample.
 - e. S01: Full scale sample of magnetic tag with paper insert.
 - f. S02: Full scale sample of blade sign with magnetic attachement.
 - g. ID01 THRU ID06: Full scale sample of each.
 - h. W01: 12 inch by 12 inch sample of EZ bars with reflective white vinyl.
 - 2. Submit 12-inch-long actual samples of each accessory required.
 - 3. Samples to be kept by the Architect as a record to later match against items in the field.
- E. Delegated-Design Submittal: For all signage unless otherwise noted.
 - 1. Signage Contractor is responsible for determining proper mounting, fastening and anchoring methods including the design of concrete bases, concrete footings, and anchorage to signage frame for all signs unless noted otherwise. Determination to account for surface material sign is being mounted upon.
 - Drawings are for aesthetic and functional design intent, only. No instructions for structural appropriateness
 have been made. It is the responsibility of the signage contractor to ensure that all elements are fabricated
 for a stable and durable installation while adhering to the aesthetic details indicated.
 - 3. Professional Engineer Qualifications: A legally qualified professional engineer licensed in the State of M who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for design and installations of signs, flagpoles, and miscellaneous support that is similar to those indicated for this Project in material, design, and extent. Include structural analysis calculations for signs indicated to comply with design loads; signed and sealed by the qualified professional engineer responsible for their preparation.
- F. Field Samples: Build field samples to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution. Approved field samples to be incorporated

into final work.

- 1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
- G. Field Dimensions for Graphic Design:
 - 1. Provide field dimensions to Architect for graphic design of graphics.
 - a. Field dimensions shall be accepted by Architect prior to final art release.
 - 2. Include dimensions, locations, and graphic depictions of all disruptions within the field of wall surface indicated to receive graphic signage. Examples of disruptions of wall surface include, but are not limited to, the following:
 - a. Louvers, Vents, Ductwork, Thermostats.
 - b. Outlets, Light Switches, Light Fixtures, and Conduit.
 - c. Wall Base, Baseboards, Corner Guards, Expansion Joints, and Reveal Joints.
 - d. Motion Sensors.
 - e. Fire Alarm Devices.
 - f. Fire Extinguishers and Fire Extinguisher Cabinets.
 - g. Furnitures.
 - h. ADA signage, Room Signage, and other Code required signage.
 - i. Doors and Windows.
 - j. Mullions, Frames, and Handles.
 - k. Televisions.
 - Other obstructions to wall or glazing surfaces not listed that would adversely affect wall graphic design.
 - 3. Elevations and dimensions shall be drawing using a computer aided drafting program and submitted in a legible format.
 - 4. Dimensional Tolerance: 1/8-inch maximum.
 - 5. Dimensions shall be reviewed and accepted by signage manufacturer prior to submittal of shop drawings.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator.
- B. Warranty: Special warranty specified in this Section.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For signs to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining wall covering.
 - 2. Include precautions for use of cleaning materials and methods that could be detrimental to finishes and performance/longevity of film graphics.
- B. Warranty: Provide warranty documentation for signage.

1.7 QUALITY ASSURANCE

- A. Signage Contractor Qualifications: All sign fabrication within this section shall be performed by a signage contractor with the following:
 - A minimum of five (5) years experience producing architectural signs, and a minimum of five (5) years
 experience producing compliant signs as specified in ANSI 117.1 (1986), Minimum Guidelines and
 Requirements for Accessible Design (MGRAD), Uniform Federal Accessibility Standards (UFAS) and
 American with Disabilities Act Accessibility Guidelines (ADAAG).
 - 2. A firm that employs skilled workers experienced in producing custom-fabricated products similar to those required for this Project and with at least seven years continuous experience under the current company name. Fabricator shall have a record of successful in-service performance, as well as sufficient production capacity to produce required units.
 - 3. Fabricator shall have completed at least seven (7) similar signage projects having similar requirements within the last four (4) years for each signage type.
 - 4. 3M-certified printer and 3M-certified installer. Subcontracting to a 3M-certified printer is acceptable.

- B. Uniformity of Manufacturer: For each separate type of sign and graphic image required, obtain signs from a single manufacturer.
 - 1. Manufacturer's name, trade name, or trademark shall not appear on any visible surface.
- C. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines. Comply with applicable provisions in ICC/ANSI A117.1.
- D. Fire Performance Characteristics: Provide wall coverings with the following surface burning characteristics as determined by testing identical products per ASTM E 84 by UL or other testing and inspecting organizations acceptable to authorities having jurisdiction. Identify wall coverings with appropriate markings of applicable testing and inspecting organization.
 - 1. Flame Spread: 5 or less.
 - 2. Smoke Developed: 25 or less.
- E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, National Electrical Code, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- F. Aesthetic Requirements: Provide copy with straight and true edges; space characters as indicated; reproduce type style accurately with square corners and even curves; provide uniform letters and symbols; and provide smooth finishes with no visible imperfections.
- G. ADA Accessibility Guidelines: Signage shall comply with the ADA Accessibility Guidelines where applicable. Characters and graphics, including but-not limited to, copy height, letter stroke symbols, materials, and finishes indicated on the Drawings are intended as guidelines for compliance. Implement each applicable ADA guideline. Should conflicts arise, notify the Designer before proceeding.
- H. Inspections: The Architect reserves the right to periodically visit the Signage Contractor's facilities to inspect and review layouts.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Use special care in handling to prevent twisting, warping, nicking, and other damage to signage. Store materials to permit easy access for inspection and identification.
 - 1. Keep aluminum off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect aluminum and packaged materials from corrosion and deterioration.
- Coordinate delivery and storage of sign materials with the Owner. Schedule delivery to minimize storage requirements.
- C. Store signage in a well-ventilated area, away from uncured concrete and masonry, and protected from weather, moisture, soiling, abrasion, extreme temperatures, and humidity. Materials stored at the Project Site without prior approval of the Owner, may have to be relocated at the sign Signage Contractor's expense.

1.9 PROJECT CONDITIONS

- A. Weather Limitations for Exterior Signage: Proceed with installation only when existing and forecasted weather conditions permit installation of signs in exterior locations to be performed according to manufacturers' written instructions and warranty requirements.
- B. Interior Environmental Limitations: Do not deliver and install glass graphics until spaces are enclosed and weathertight, wet work in spaces to receive murals is complete and dry, work above ceilings is complete, and temporary or permanent HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
 - Maintain a constant temperature not less than 60 deg F in installation areas for at least 10 days before and 10 days after installation.
- C. Lighting: Do not install vinyl wall graphics until permanent level of lighting is provided on the surfaces to receive murals.
- Ventilation: Provide continuous ventilation during installation and for not less than the time recommended by the vinyl wall graphics manufacturer for full drying and curing.

E. Field Measurements: Verify recess openings by field measurements before fabrication and indicate measurements on Shop Drawings.

1.10 COORDINATION

A. Signage Contractor is responsible for preparing a schedule indicating engineering, fabrication, delivery, installation, and final inspection of the work. Submit this schedule to the Architect and Owner for approval and coordination with other work at the Project Site.

B. Installation:

- 1. Coordinate installation with the Owner, Construction Manager, and other trades.
- 2. For signs supported by or anchored to permanent construction, coordinate specific requirements for types and placement of anchorage devices and similar items to be used for attaching signs. Deliver such items to Project Site in time for installation.
- 3. Signage Contractor is responsible for furnishing setting drawings, installation templates and directions for installing for appropriate blocking, anchorage devices, and electrical conduits.
- 4. Signage Contractor to coordinate all appropriate blocking needed.
- C. Coordinate location of remote transformers with building construction. Ensure that any transformers are accessible after completion of work.

1.11 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of metal and polymer finishes beyond normal weathering.
 - b. Deterioration of embedded graphic image colors.
 - Warranty Period: Five years from date of Substantial Completion.

PART 2 PRODUCTS

2.

2.1 MATERIALS, GENERAL

- A. General: Use materials of size and thickness indicated or, if not indicated as required to produce strength and durability in finished product for use intended. Work to dimensions shown or accepted on shop drawings, using proven details of fabrication and support. Use type of materials shown or specified for various components of work.
- B. All materials shall be new stock, free from defects impairing strength, durability, and appearance. No fabrication or installation materials or procedures shall be used that will in any way change the usual quality or in any manner have an adverse effect on existing materials and surfaces.
- C. Graphic Content and Style: Provide sign copy that complies with requirements indicated in the Message Schedule on Drawings, and on artwork for size, style, spacing, content, mounting height and location, material, finishes, and colors of signage. All digital prints to be high resolution output.
- D. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. Provide materials without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- E. Aluminum, General: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with strength and durability properties for each aluminum form required not less than that of alloy and temper designated below.
 - 1. Plate and Sheet: ASTM B 209, Alloy 5005-H32 or Alloy 6061-T6.
 - 2. Material Gauge: Produce Fabricated Aluminum Signs with .090" faces and .063" returns.
 - Castings: ASTM B 26/B 26M, of alloy and temper recommended by sign manufacturer for casting process used and for use and finish indicated.
 - 4. Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

- a. Basis-of-Design Product: Subject to compliance with requirements, provide SignComp Extrusions and Systems (877.784.0405) or approved comparable product.
- Aluminum Extrusions: ASTM B 221 (ASTM B 221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with at least the strength and durability properties of alloy 6063-T5.
 - a. Mounting: Concealed studs, non-corroding for substrates encountered.
- 6. Cutting: Computer guided lasers cut letters, logos or shapes.
- 7. Construction: Cut letter returns from .063"coil (1", 1.5",2",3",4",5",6") to size based on the desired letter depth, bent to the contour of the laser cut faces to produce a hollow-backed letter with 90° angle edges. Inside joints are MIG welded with 1"-1.5" intervals. Finish exposed welds and surfaces smooth, flush, and blended to match adjoining surfaces.
 - For Exterior Applications: Provide weep holes to drain water at lowest part of exterior signage. Equip weeps with permanent baffles to block light leakage without inhibiting drainage.
- 8. Performance: Welds are tested for strength. Finishes are Salt Fog tested to ASTM B-117-95 for corrosion resistance.
- 9. Finishes:
 - Painted finish DA sanded face & returns, primed, then sprayed; refer to "Coatings and Paintings" Paragraph.
- F. Concrete Footings: Refer to Section 033000 "Cast-In-Place Concrete".
- G. Expanded PVC Sheet: Subject to compliance with requirements, provide "Sintra" by 3A Composites.
 - 1. Material: Moderately expanded closed-cell polyvinyl chloride.
 - 2. Color: As selected by Architect from manufacturer's full range.
 - 3. Basis-of-Design Product: Subject to compliance with requirements, provide "Sintra" by 3A Composites or a comparable product of an approved manufacturer.
- H. Magnetic Sheeting:
 - Basis of Design Products: Subject to compliance with requirements, provide "Flexible Magnetic Sheeting" by Magnum Magnetics or a comparable product with the following criteria proposed to and accepted by Architect prior to bidding.
 - 2. Material: Flexible magnetic composition with finished surface prepared for digital printing.
 - 3. Color: White, opaque.
 - 4. Thickness: 20 mils.
 - Chemical Resistance: Resists mild alkalis, mild acids, and salt. Excellent resistance to water.
- I. Vinyl Film: UV-Resistant vinyl film of nominal thickness indicated, with pressure-sensitive, permanent adhesive on back; die cut to form characters or images as indicated and suitable for exterior applications.

J. Steel:

- 1. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.
- 2. Steel Channels, Plates, Shapes, and Bars: ASTM A 36/A 36M.
- 3. Rolled-Steel Floor Plate: ASTM A 786/A 786M, rolled from plate complying with ASTM A 36/A 36M or ASTM A 283/A 283M, Grade C or D.
- 4. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.
- 5. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40) unless otherwise indicated.

2.2 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

- D. Coatings and Paints: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.
 - 1. Baked Enamel:
 - Exposed panel finish: Deterioration includes, but is not limited to, the following:
 - 1) Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - 2) Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - 3) Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Clear Anodic Finish:
 - Manufacturer's standard Class 1 clear anodic coating, 0.018 mm or thicker, over a satin (directionally textured) mechanical finish, complying with AAMA 611.
 - 3. Color Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 4. Fluoropolymer:
 - a. Aluminum:
 - 2-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturer's written instructions.
 - 2) Three-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 3) Mica Fluoropolymer: AAMA 2605. Two-coat fluoropolymer finish with suspended mica flakes containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 4) Metallic Fluoropolymer: AAMA 2605. Three-coat fluoropolymer finish with suspended metallic flakes containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, coating and resin manufacturers' written instructions.
 - 5. Industrial Paint Finish:
 - a. Basis of Design: Provide MAP Ultra Low VOC by Matthews Paint Company or a comparable product submitted to and accepted by Architect with the following product characteristics.
 - b. Finished coated surface shall provide a minimum of 150 in/lbs of impact resistance on all exposed faces
 - c. All edges and faces shall have a seamless finish unless indicated otherwise on drawings.
 - 6. Overcoat/Topcoat:
 - Basis of Design Products: Subject to compliance with requirements, provide "Clear Diamond Finish" by KBS or a comparable product with the following criteria proposed to and accepted by Architect prior to bidding.
 - 1) Provide: Two topcoats.
 - 7. Powder-Coat:
 - a. Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm) Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and backing finish.
- E. Industrial Paint Finish:
 - Basis of Design: Provide acrylic polyurethane "MAP-LVG Ultra Low VOC" by Matthews Paint Company or a comparable product submitted to and accepted by Architect with the following product characteristics.
 - a. Finish: Satin
 - 2. Finished coated surface shall provide a minimum of 150 in/lbs of impact resistance on all exposed faces.
 - 3. All edges and faces shall have a seamless finish unless indicated otherwise on drawings.

2.3 ACCESSORIES

- A. Mounting Methods: Use double sided vinyl tape and silicone adhesive fabricated from materials that are not corrosive to sign materials and mounting surface.
- B. Adjustable Edge Grips: Subject to compliance with requirements, provide "SO-APEG9" by Gyford Display or comparable product with the following product characteristics, submitted to and accepted by Architect prior to bidding:
 - 1. Material: Anodized aluminum.
 - 2. Stud Dimensions: 1 inch diameter by 1-15/16 inch length.

- 3. Nylon tip set screw.
- C. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
 - 1. Use concealed fasteners and anchors unless indicated to be exposed.
 - 2. Exposed Metal-Fastener Components, General:
 - a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
 - Fastener Heads: For nonstructural connections, use oval countersunk screws and bolts with tamperresistant. Allen-head slots unless otherwise indicated.
- D. Visible studs shall have sleeves painted to match color specified by Architect.
- E. Tamper Resistant Standoff Supports: Subject to compliance with requirements, provide "WSS-1619/TP" by NovaDisplay or comparable product with the following product characteristics, submitted to and accepted by Architect prior to bidding:
 - 1. Material: SS201 Stainless Steel.
 - 2. Stud Dimensions: 5/8 inch diameter by 3/4 inch length.
 - 3. Panel Requirements:
 - a. Maximum Panel Thickness: 1/2 inch.
 - b. Panel Hole Size: 7/16 inch.
 - 4. Cap Thread Size: M10x1.25.
 - 5. Accessory: Provide nylon or neoprene gasket.
- F. Tamper Resistant Standoff Supports: Subject to compliance with requirements, provide "SOK-8-100" by Gyford or comparable product with the following product characteristics, submitted to and accepted by Architect prior to bidding. Quantities as required to complete design as indicated on the Construction Drawings.
 - Material: Anodized aluminum.
 - 2. Stud Dimensions: 5/8 inch diameter.
 - 3. Components:
 - a. SO-CAP8.
 - b. SO-100.
 - c. HD-S19.
 - d. HD-CBS1.
 - e. HD-FDA1.
 - 4. Accessory: Provide nylon or neoprene gasket.
- G. Stand-off-Hardware: Provide products from CR Laurence Co. as indicated below. Fabricate from Type 316 stainless steel. Finish shall be brushed stainless steel. Provide all accessories necessary for mounting to underside of transaction counter.
 - 1. Stand-Off-Base: Model S0B10112BS by CR Laurence (1-inch diameter by 1-1/2 inch long standdoff sleeve)
 - 2. Stand-Off-Cap: Model CAP1BS by CR Laurence (1-inch diameter standoff cap).
 - 3. Comparable products from other manufacturers will be considered.

2.4 FABRICATION

- A. General: Provide manufacturer's standard signs of configurations indicated.
 - Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress exposed and contact surfaces.
 - 2. Mill joints to tight, hairline fit. Form joints exposed to weather to exclude water penetration.
 - 3. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in location not exposed to view after final assembly.
 - 4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.
 - 5. Internally brace signs for stability and for securing fasteners.
 - Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill
 and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match
 sign finish.
 - 7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate

marks, casting flash, and other casting marks before finishing

- B. Brackets: Fabricate brackets, fittings, and hardware for bracket-mounted signs to suit sign construction and mounting conditions indicated. Modify manufacturer's standard brackets as required.
 - Aluminum Brackets: Factory finish brackets with baked-enamel or powder-coat finish to match signbackground color unless otherwise indicated.

2.5 FLAT CUT

- A. General: Flat Cut
 - Standard (101400.A30 X01, X02, X03).
- B. Flat cut characters and shapes with uniform faces; square-cut, smooth, eased edges; precisely formed lines and profiles; and as follows:
 - Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. APCO Graphics, Inc.
 - b. R. K. Ramos Signage Systems.
 - c. ASI Sign Systems, Inc.
 - d. Dimensional Innovations.
 - e. Gemini Incorporated.
 - f. Metallic Arts.
 - g. Square One.
- C. Refer to Drawings for:
 - 1. Sign Height, Width and Depth.
 - Typeface and Character Spacing.
 - 3. Color.
 - 4. Mounting Position.
- D. Mounting: Furnish inserts and other anchorage devices to connect masonry work. Coordinate anchorage devices with supporting structure.
 - 1. Fabricate anchorage devices that are capable of withstanding dead loads of units.
 - 2. Lettering shall be pin-mounted and stood off wall 1 inch unless indicated otherwise.
- E. Refer to Article 2.1 "Materials" for material technical information.
- F. Refer to Artcile 2.2 "Finshes" for materials selected below.
- G. Material selection:
 - 1. ALUMINUM
 - Fabricate flat-cut-out characters and shapes from aluminum sheet/plate of thickness as indicated on drawings.
 - b. Welding: Use welding method that is appropriate for metal and finish indicated and that develops full strength of members joined. Finish exposed welds and surfaces smooth, flush, and blended to match adjoining surfaces.
 - c. Finishes:
 - ExteriBaked Enamel or Powder-Coat Finish: Manufacturer's standard, in color finish selected by the Architect.

2.6 FILM SIGNAGE

- A. Solid Color Vinyl (101400.A43 **X03, X04**):
 - Basis of Design Products: Subject to compliance with requirements, provide "IJ680CR" by 3M or a comparable product with the following criteria proposed to and accepted by Architect prior to bidding.
 - a. https://www.3m.com/3M/en_US/p/d/b00020926/
 - b. Material: Vinyl.
 - c. Finish: Luster.
 - d. Color: White.
 - e. Thickness: 7-8 mil.

Liberty Public Schools Distribution Center Project No. 23021

SIGNAGE

- f. Adhesive type: Manufacturer's standard releasable pressure sensitive adhesive.
- g. Adhesive color: Clear with silver underneath.
- h. Liner: Polyethylene coated paper.
- i. Chemical Resistance: Resists mild alkalis, mild acids, and salt. Excellent resistance to water.
- j. Applied film shrinkage: less than 0.4 mm.
- k. Weeded Custom Cut in factory as indicated on drawings for field installation.
- I. Artwork shall be furnished by the Owner, on disc to manufacturer's standards.

2.7 SPECIALTY (101400.71):

A. General:

- 1. Refer to Article 2.1 "Materials" for material technical information.
- 2. Refer to Article 2.2 "Finshes" for materials selected below.
- 3. Refer to Article 2.3 "Accessories" for related installation components.

B. S01: Magnetic Label Holder

- Basis of Design Products: Subject to compliance with requirements, provide magnetic label holders for beam tags fwith slide paper inserts; Type "M51GR" by HOL-DEX or a comparable product with the following criteria proposed to and accepted by Architect prior to bidding.
 - a. Size: 2 inch by 6 inch
 - b. Color and Finish: Clear, Matte, Anti-glare.
 - c. Refer to Drawings for locations

2.8 **POST AND PANEL SIGNAGE**

- A. Non-illuminated Post (101400.AA90).
- B. Non-illuminated Panel (101400.AA92).
- C. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. ASI-Modulex. Inc.
 - 2. Dimensional Innovations.
 - 3. Innerface Sign Systems, Inc.
 - 4. Seemore Signs.
 - 5. Howard Industries
 - 6. SignComp

D. General:

- In addition to special care used to handle and fabricate structural frame exposed to view in final position, comply with the following:
 - a. Fabricate with exposed surfaces smooth, square, and free of surface blemishes including pitting, rust, scale, and roughness.
 - b. Grind sheared, punched, and flame-cut edges to remove burrs and provide smooth surfaces and edges.
 - c. Fabricate with exposed surfaces free of mill marks, including rolled trade names and stamped or raised identification.
 - d. Fabricate with exposed surfaces free of seams to maximum extent possible.
 - Remove blemishes by filling or grinding or by welding and grinding, before cleaning, treating, and shop priming.
 - f. Fabricate with piece marks fully hidden in the completed structure or made with media that permits full removal after erection.
 - g. Seal-weld open ends of hollow structural sections with 3/8-inch closure plates.
- E. Frames: All posts and frames manufactured from heavy duty 6063 T5 aluminum extrusions.
 - 1. Bolted connection to concrete pad by Signage contractor.
 - 2. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
 - 3. Frame Components: 2-1/4" x 3" posts, post caps and E-Z Change Wordbars

- F. Panels: Signage panels to be consturcted from from heavy duty 6063 T5 aluminum plate.
 - 1. Minimun Panel thickness: 0.125 inch.
 - 2. Provide "Wordbar" extrusions:
 - a. Color and length: Refer to the drawings.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs.
- C. Verify that anchor inserts are correctly sized and located to accommodate signs.
- D. Verify that items provided under other sections of Work are sized and located to accommodate signs.
- E. Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter.
- F. Proceed with installation only after unsatisfactory conditions have been corrected.
- G. Field verify dimensions of all conditions.

3.2 INSTALLATION, GENERAL

A. Preparation

- Acclimatize materials by removing them from packaging in the installation areas not less than 24 hours before installation.
- 2. Follow manufacturer's printed instructions for surface preparation.
 - Prepare substrates to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, and defects.
 - b. Painted surfaces: Treat areas susceptible to pigment bleeding.
 - c. Metals: If not factory-primed, clean and apply rust inhibitive zinc primer.
 - d. Moisture content: maximum of 5 percent on new plaster, concrete, and concrete masonry units when tested with an electronic moisture meter.
 - e. Adhesion Test: Perform manufacturer's standard non-destructive adhesion test on substrate, prime or repaint all surfaces that fail adhesion test as recommended by manufacturer.
- B. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
 - Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door.
- C. Face Mounting: Mount plaques using exposed fasteners with rosettes attached through face of plaque into wall surface.
- D. Wall-Mounted Signs Mounted on Glass: Provide opaque sheet matching sign material and finish onto opposite side of glass to conceal back of sign.
- E. Wall-Mounted Signs on Smooth Surfaces: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
 - Silicone-Adhesive Mounting: Attach signs to irregular, porous, or vinyl-covered surfaces. Where signage is located on exterior surfaces, provide exterior rated adhesive as recommended by signage manufacturer for substrate indicated.

- F. Wall-Mounted Signs on Textured Surfaces: Comply with sign manufacturer's written instructions except where more stringent requirements apply. Mount characters using standard fastening methods to comply with manufacturer's written instructions for character form, type of mounting, wall construction, and condition of exposure indicated. Provide heavy paper template to establish character spacing and to locate holes for fasteners.
 - Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
 - b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.
- G. Vertical Tolerance: Set posts plumb within a tolerance of 1/16 inch in 3 feet (2 mm in 1m).
- H. Installation Flat Cut
 - Installation of panels:
 - a. Install panels in locations and mounting heights as indicated on Drawings. Attach using concealed system to wall surfaces unless otherwise indicated. Utilize mechanical fasteners appropriate for wall substrate. Keep perimeter lines straight, level, and plumb. Align panels with adjacent installations.
 - For textured substrates, install using 3M Textured Surface Applicator as recommended or required by manufacturer for best installation practices for a warranted installation.
- I. Installation Film Signage
 - Field-Applied, Vinyl-Film Signs:
 - Align sign Characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fishmouths. Remove carrier film without disturbing applied vinyl film.
 - b. Remove excess adhesive at finished seams, perimeter edges, and adjacent surfaces.
- J. Installation Direct Burial Method:
 - 1. Install only after all other work is completed.
 - 2. Coordination between trades to ensure district guidelines are achieved.
 - 3. Excavation: Excavate posthole to dimensions indicated. Reconstruct subgrade that is not firm, undisturbed, or compacted soil, or that is damaged by freezing temperatures, frost, rain, accumulated water, or construction activities by excavating an additional 12 inches (300 mm), back filling with satisfactory soil or well-graded aggregate, and compacting to original subgrade elevation.
 - 4. Setting in Earth: Set post in position, support to prevent movement, and backfill with satisfactory soil or well-graded aggregate as recommended in writing by manufacturer. Place and compact backfill in 6- inch lifts, compacting each lift.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.
- B. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes to components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- C. Remove temporary protective coverings and strippable films as signs are installed.
- D. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean conditions during construction and protect from damage until acceptance by Owner.

END OF SECTION

Distribution Center Liberty Public Schools 1142 Southview Dr, Liberty, MO 64068 CONSTRUCTION DOCUMENTS

BUILDING SECTIONS

WALL SECTIONS

WALL SECTIONS

WALL SECTIONS

INDEX OF DRAWINGS

DEMOLITION - CIVIL

CIVIL

C100

LANDSCAPE

ARCHITECTURE

GENERAL PROJECT INFORMATION

CODE FLOOR PLAN - LEVEL 1 BLDG 1

CODE FLOOR PLAN - LEVEL 1 BLDG 2

CODE SITE PLAN/OVERALL CODE PLAN



DESIGN TEAM ALTERNATE LIST

115 Wilcox Street Suite 21

Kansas City, MO 641 816.531.4144 phone

Mech/Elect Engineer State Certificate of Authority # EFC-0001 25618 W 103rd St Olathe, KS 66061 913.345.2127 phone

Springfield, MO 65802

Hollis + Miller Architects 1828 Walnut Street Ste 922 Kansas City, MO 64108 CONTACT: Shea Ensor PHONE: 816.442.7700 FAX: 816.599.2545

ARCHITECT:

CONSTRUCTION MANAGER:

Newkirk Novak Construction Partners 11200 W 79th Street Lenexa, KS 66214 CONTACT: Ben Vanderau PHONE: 913.312.9535

CIVIL ENGINEER:

MKEC Engineering, Inc. 11827 W 112th St #200 Overland Park, KS 66210 CONTACT: Braden Taylor PHONE: 913.317.9390

STRUCTURAL ENGINEER:

Bob D. Campbell & Co. 4338 Belleview Ave. Kansas City, MO 64111 CONTACT: Wayne E. Davis, P.E. PHONE: 816.531.4144 FAX: 816.531.8572

MECH/ELECT ENGINEER:

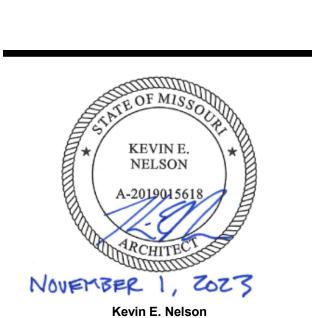
Smith & Boucher Engineers 25618 W 103rd St Olathe, KS 66061 CONTACT: Stacy Clapsaddle, P.E. PHONE: 913.345.2127

GEOTECHNICAL ENGINEER:

Kruger Technologies, Inc. 8271 Melrose Drive Lenexa, KS 66214 **CONTACT:** Dylan Kruger PHONE: 913.498.1114 FAX: 913.498.1116

FOOD SERVICE CONSULTANT:

Fellers Food Service Equipment & Design 2140 W Grand St Suite B Springfield, MO 65802 **CONTACT:** Mike Fiddyment PHONE: 417.862.0812



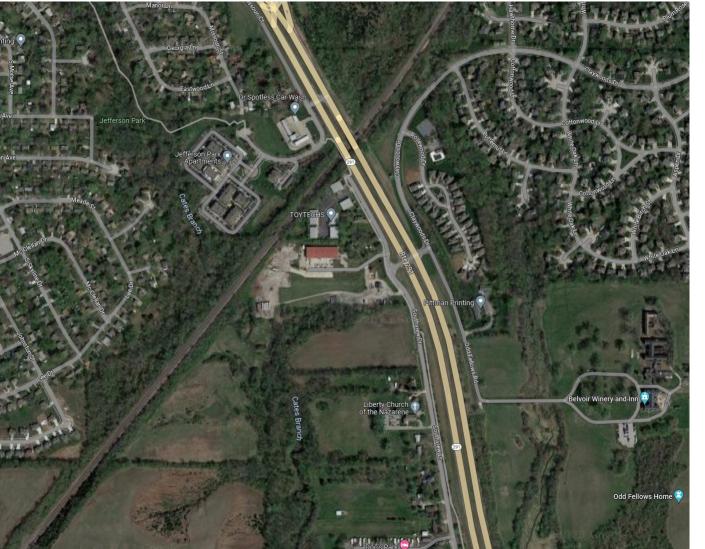
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JOB NO: 23021.00 DRAWN BY: SE **CHECKED BY: NY/JB** DATE: 10.10.2023

REVISIONS:

ADDENDUM 4

G000



WALL SECTIONS WALL SECTIONS **EXTERIOR DETAILS DEMOLITION PLAN 1 ENLARGED TOILET PLANS & DETAILS** DEMOLITION PLAN 2 **VERTICAL CIRCULATION** DOOR SCHEDULE, TYPES & HM FRAMES FRAME TYPES - ALUM **CIVIL INFORMATION SHEET** DOOR & WINDOW DETAILS **OVERALL SITE PLAN** DOOR & WINDOW DETAILS **EXISTING CONDITIONS PLAN 1** FINISH FLOOR PLAN - LEVEL 1 - OVERALL **EXISTING CONDITIONS PLAN 2** PRINT CENTER FLOOR PLAN + EQUIPMENT SCHEDULE UTILITY PLAN 1 RACKING + SPECIALTY EQUIPMENT COORDINATION PLAN UTILITY PLAN 2 **INTERIOR ELEVATIONS** SWS LINE 2 PLAN & PROFILE INTERIOR ELEVATIONS SWS LINE 3 AND 6 PLAN & PROFILE **INTERIOR ELEVATIONS** SWS LINE 4-5 PLAN & PROFILE INTERIOR DETAILS PAVING PLAN 1 MATERIAL FINISH LEGEND & ROOM SCHEDULE PAVING PLAN 2 SIGNAGE & ENVIRONMENTAL GRAPHICS FLOOR PLAN **GRADING PLAN 1** OVERALL - LEVEL 1 **GRADING PLAN 2** SIGNAGE & ENVIRONMENTAL GRAPHICS FLOOR PLAN -**EROSION CONTROL PLAN OVERALL - MEZZ LEVEL EROSION CONTROL PLAN 2** SIGNAGE & ENVIRONMENTAL GRAPHICS SCHEDULES TURNING MOVEMENT PLAN ADA & CODE SIGNAGE **UTILITY DETAILS** SIGNAGE & ENVIRONMENTAL GRAPHICS EXTERIOR **UTILITY DETAILS 2** ELEVATIONS & DETAILS SIGNAGE & ENVIRONMENTAL GRAPHICS EXTERIOR **PAVING DETAILS 1** ELEVATIONS & DETAILS PAVING DETAILS 2 **EROSION CONTROL DETAILS** C205 ADS/STORMTECH/DETAILS STRUCTURAL SLIDING GATE DETAILS **GENERAL NOTES BUILDING DESIGN LOADS** \sim \sim \sim SCHEDULES **FOUNDATION PLAN** LANDSCAPE PLAN 1 LANDSCAPE PLAN 2 SECOND FLOOR FRAMING PLAN ROOF FRAMING PLAN **FOUNDATION SECTIONS** ARCHITECTURAL SITE FOUNDATION SECTIONS ARCHITECTURAL SITE PLAN - OVERALL FOUNDATION SECTIONS ARCHITECTURAL SITE - ENLARGED PLANS & DETAILS ROOF FRAMING SECTIONS ARCHITECTURAL SITE - ENLARGED PLANS & DETAILS ROOF FRAMING SECTIONS MEZZANINE FRAMING DETAILS **CANOPY FRAMING DETAILS** GENERAL ARCHITECTURAL INFORMATION ROOF FRAMING DETAILS FLOOR PLAN - LEVEL 1 - OVERALL FLOOR PLAN - MEZZ & CLER LEVEL - OVERALL ROOF FRAMING DETAILS EDGE OF SLAB PLAN **ELEVATION VIEWS REFLECTED CEILING PLAN - LEVEL1 ELEVATION VIEWS** WIND GIRT CONNECTIONS REFLECTED CEILING PLAN - MEZZANINE LEVEL CEILING DETAILS MECHANICAL/ELECTRICAL OVERALL ROOF PLAN ME101 MECHANICAL AND ELECTRICAL - SYMBOLS AND **ROOF DETAILS** ABBREVIATIONS **ROOF DETAILS** ME201 MECHANICAL AND ELECTRICAL - SITE PLAN **EXTERIOR ELEVATIONS - OVERALL** ME201P PHOTOMETRICS - SITE PLAN **BUILDING SECTIONS**

MECHANICAL AND ELECTRICAL - ROOF PLAN MECHANICAL AND ELECTRICAL - SCHEDULES MECHANICAL AND ELECTRICAL - DETAILS ME402 MECHANICAL AND ELECTRICAL - DETAILS

MECHANICAL

OVERALL HVAC PLAN - LEVEL 1 OVERALL HVAC PLAN - MEZZ LEVEL **CONTROL DIAGRAM - HVAC**

PLUMBING

OVERALL UNDERSLAB PLUMBING PLAN - LEVEL 1 OVERALL PLUMBING PLAN - LEVEL 1 OVERALL PLUMBING PLAN - MEZZ LEVEL

ELECTRICAL OVERALL LIGHTING PLAN - LEVEL 1 OVERALL LIGHTING PLAN - MEZZ LEVEL **OVERALL POWER PLAN - LEVEL 1** OVERALL POWER PLAN - MEZZ LEVEL **ELECTRICAL SCHEDULES AND DETAIL** ELECTRICAL SCHEDULES AND DETAIL

ELECTRICAL SCHEDULES AND DETAIL

ELECTRICAL SCHEDULES AND DETAIL

FOOD SERVICE

EQUIPMENT PLAN ELECTRICAL PLAN

CONDUIT PLAN AND WIRE DIAGRAMS PLUMBING PLAN

BUILDING WORKS REFRIGERATION

REFRIGERATION K500.2 REFRIGERATION

VICINITY MAP

<u> ALTERNATE 1 - NORTH CLERESTORY</u>

BASE BID: AS DRAWN IN DOCUMETNS

ALTERNATE 2 - LIGHTNING PROTECTION

BASE BID: NO LIGHTNING PROTECTION

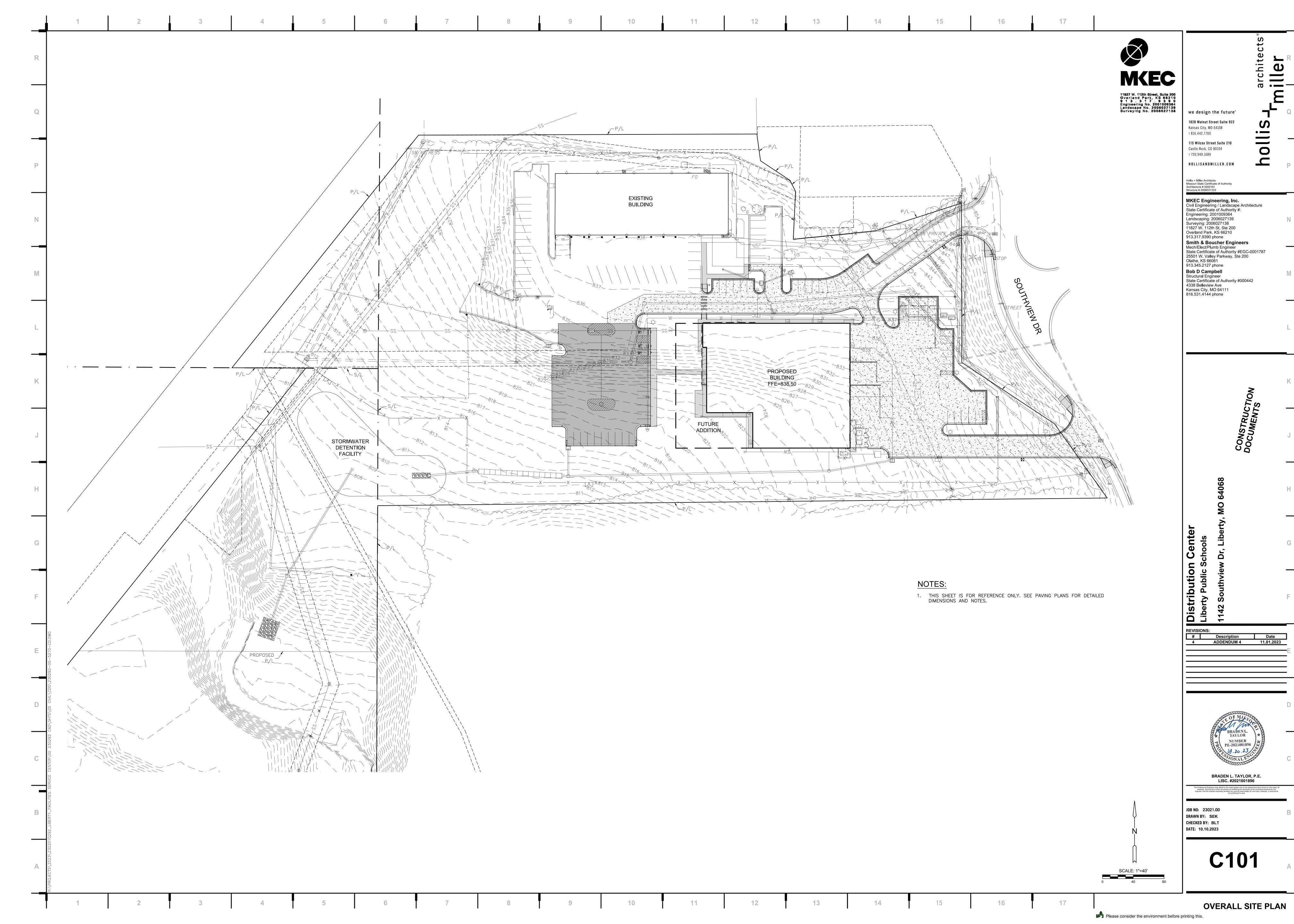
ALTERNATE: RE: MEP SHEETS

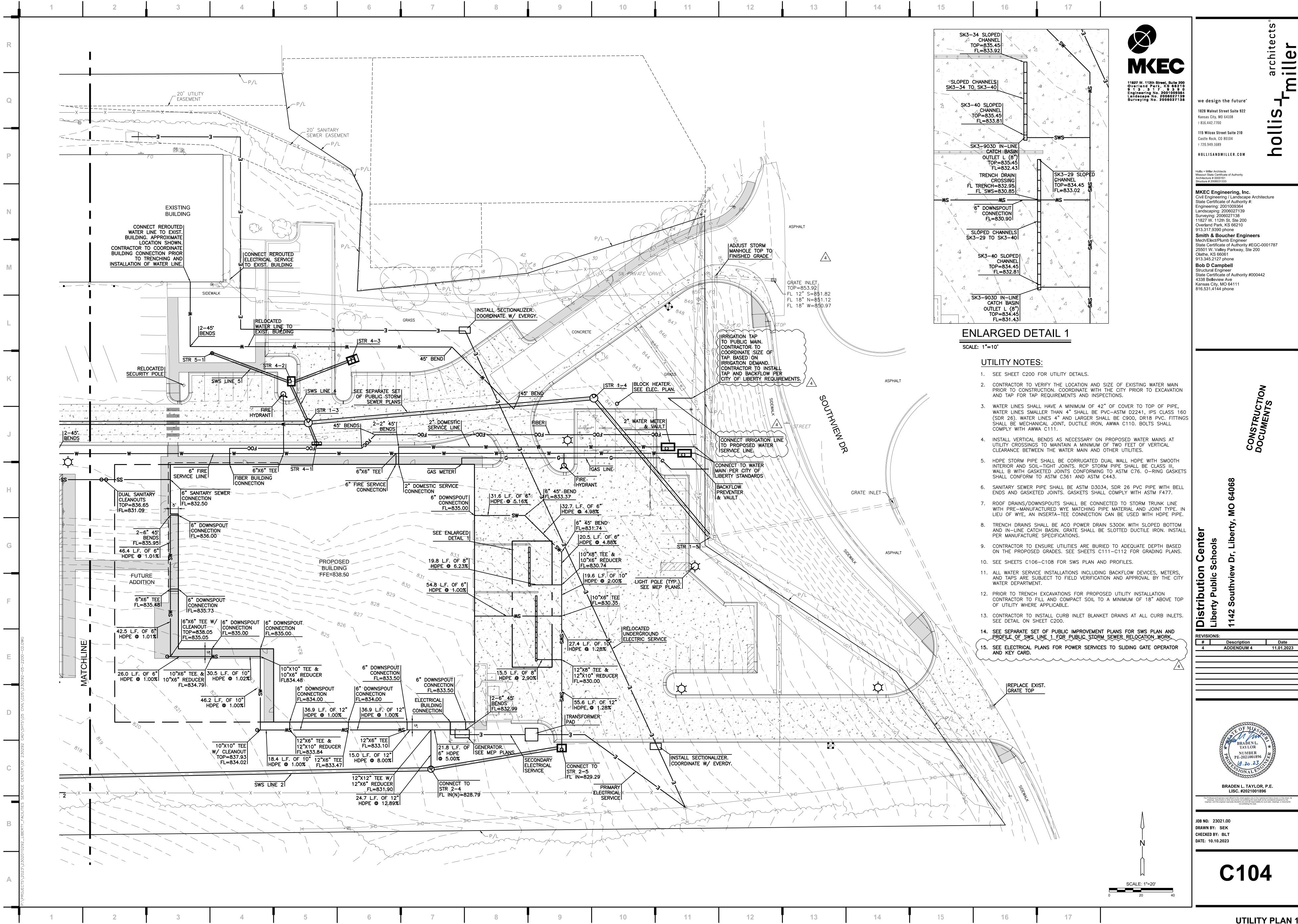
ALTERNATE: DO NOT PROVIDE NORTH CLERESTORY WINDOWS AND FRAMING MATE

CONTINUE MP1 OVER INDICATED NORTH CLERESTORY LOCATIONS. RE:A201

COVER SHEET

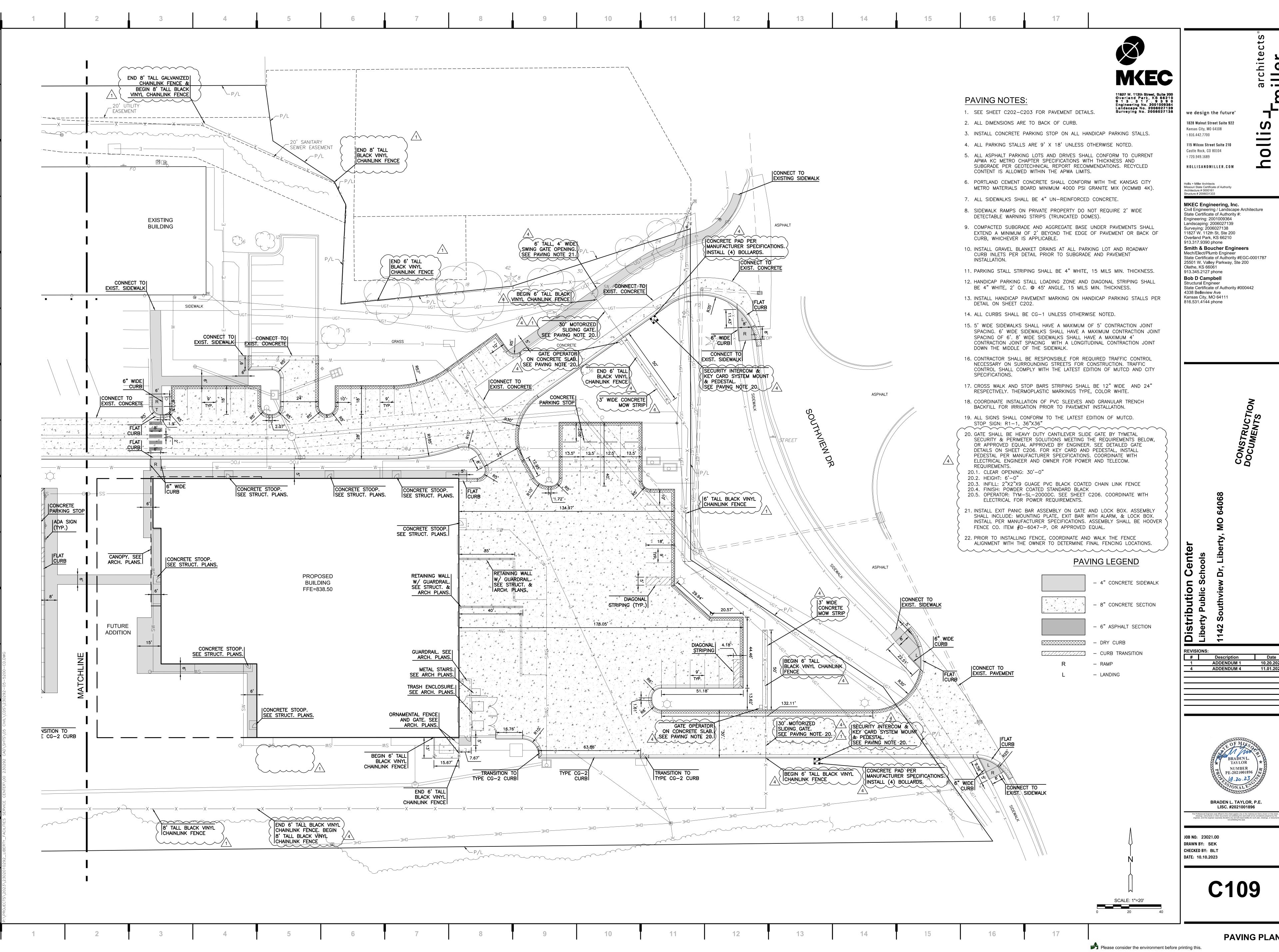
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UTILITY PLAN 1



MKEC Engineering, Inc.

Civil Engineering / Landscape Architecture State Certificate of Authority #: Engineering: 2001009364 Landscaping: 2006027139 Surveying: 2006027138 11827 W. 112th St, Ste 200 Overland Park, KS 66210 **Smith & Boucher Engineers**

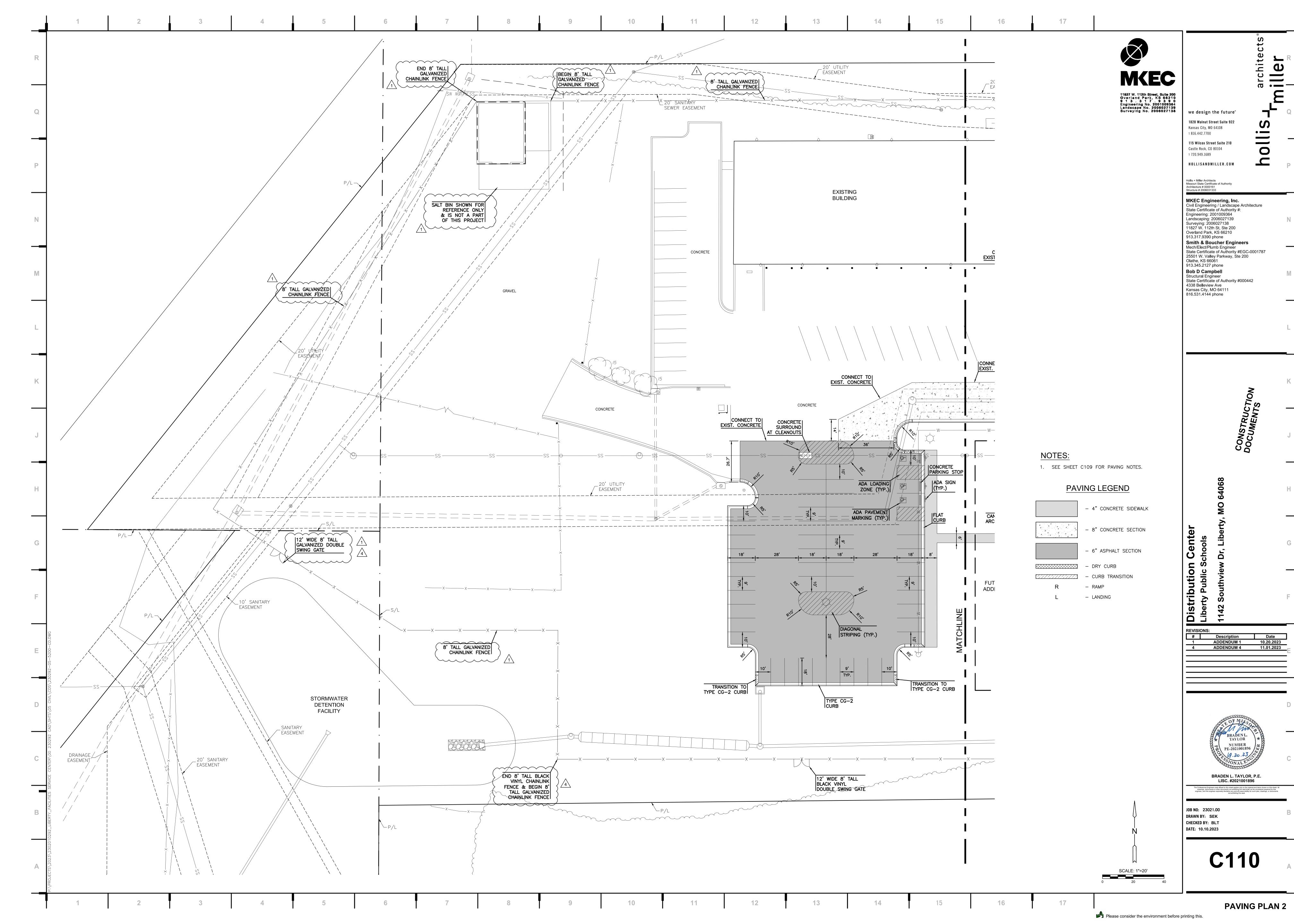
State Certificate of Authority #EGC-0001787 25501 W. Valley Parkway, Ste 200 State Certificate of Authority #000442

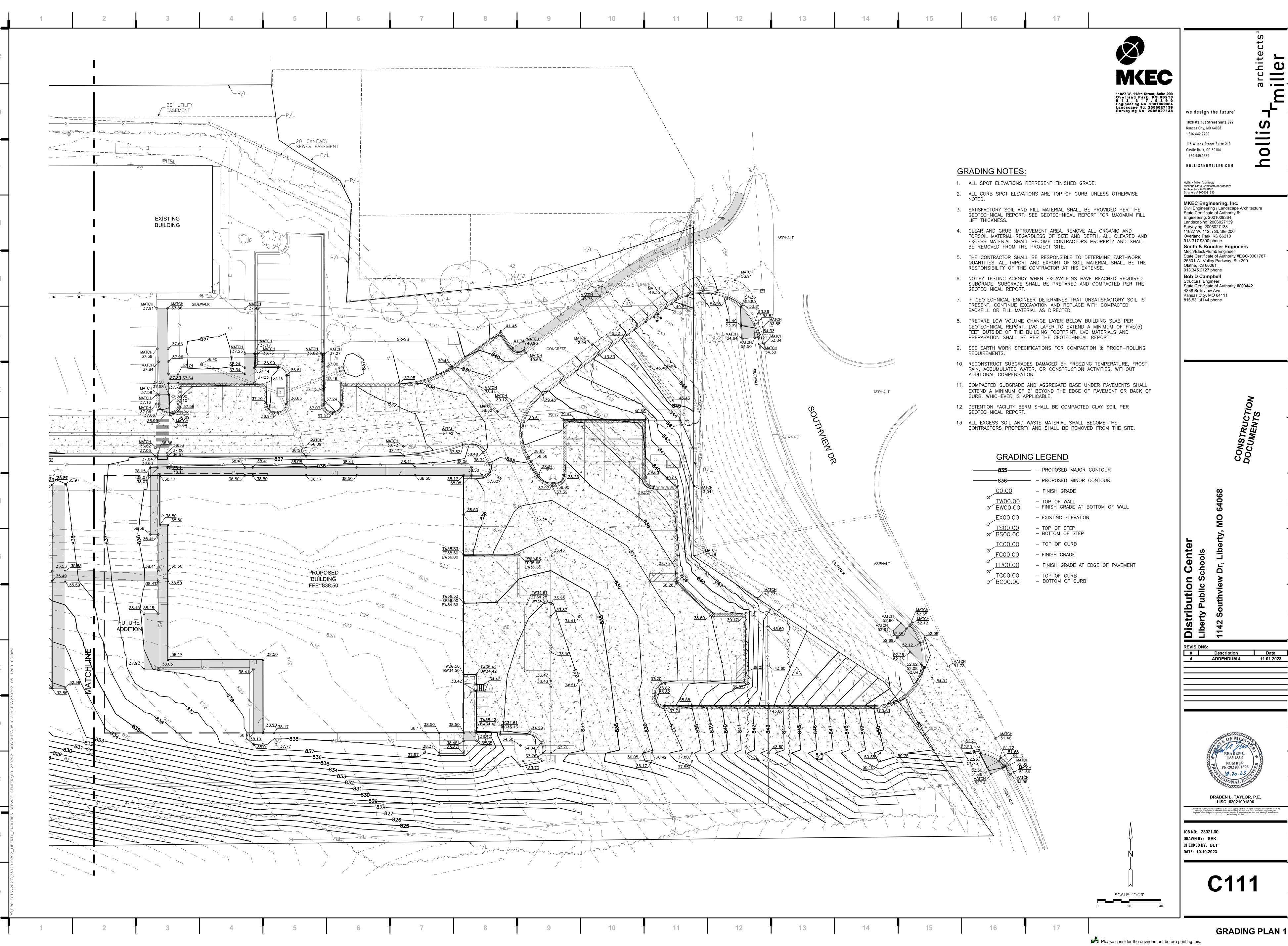
11.01.2023 ADDENDUM 4



BRADEN L. TAYLOR, P.E. LISC. #2021001896

PAVING PLAN 1





we design the future

1828 Walnut Street Suite 922

115 Wilcox Street Suite 210 Castle Rock, CO 80104

MKEC Engineering, Inc.Civil Engineering / Landscape Architecture State Certificate of Authority #: Engineering: 2001009364 Landscaping: 2006027139

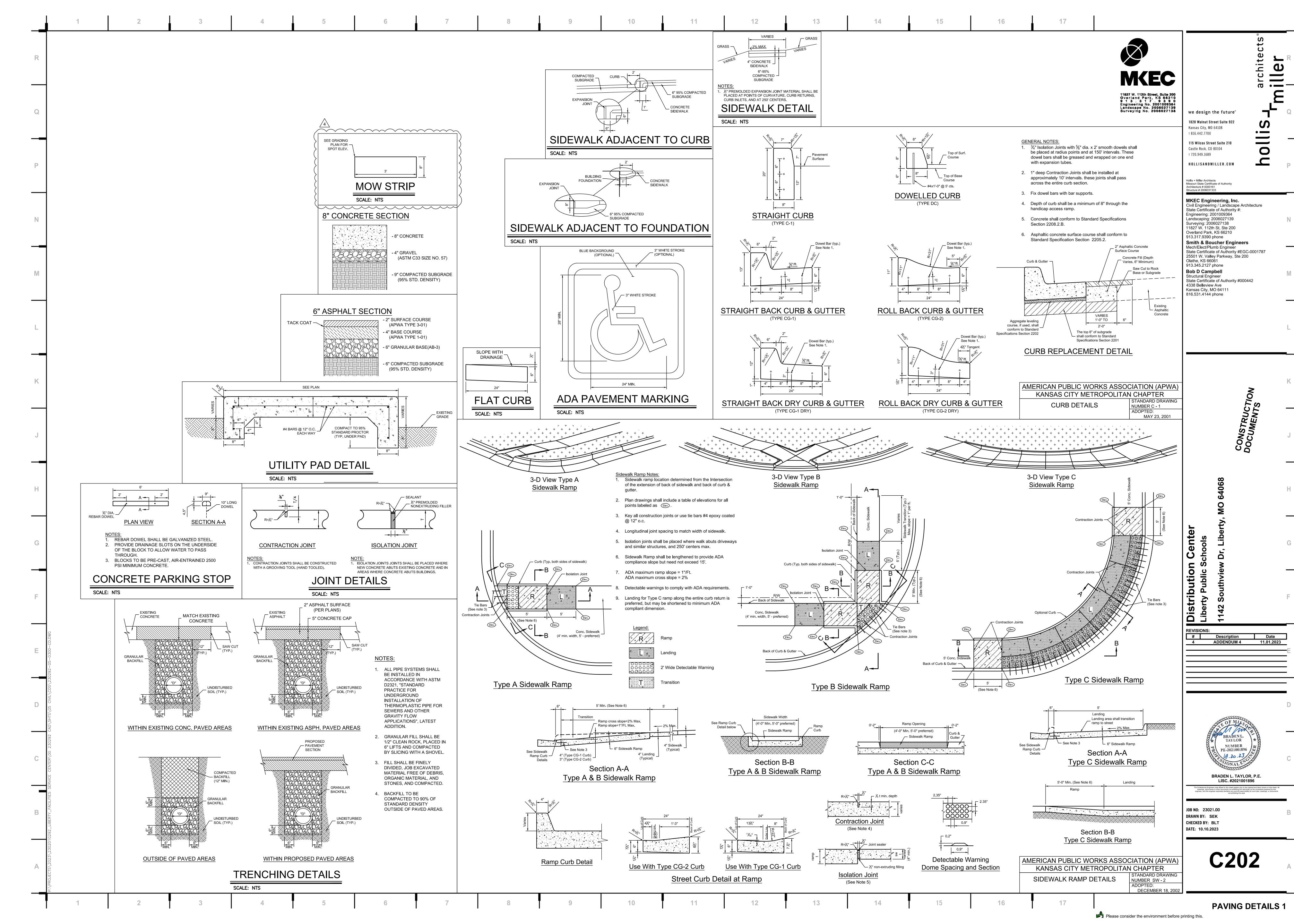
11827 W. 112th St, Ste 200 Overland Park, KS 66210 Smith & Boucher Engineers Mech/Elect/Plumb Engineer State Certificate of Authority #EGC-0001787

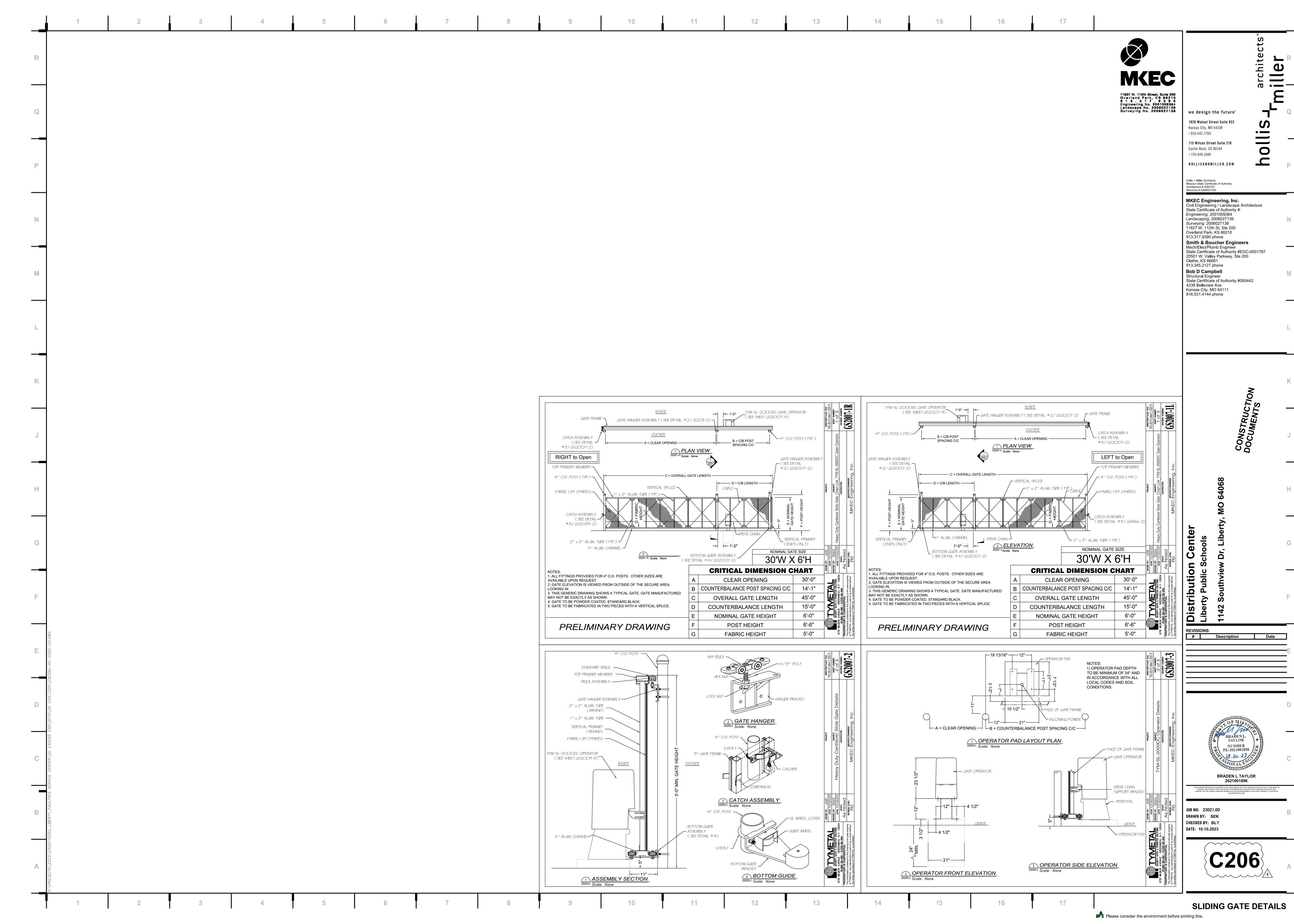
25501 W. Valley Parkway, Ste 200 Olathe, KS 66061 913.345.2127 phone **Bob D Campbell** Structural Engineer State Certificate of Authority #000442 4338 Belleview Ave

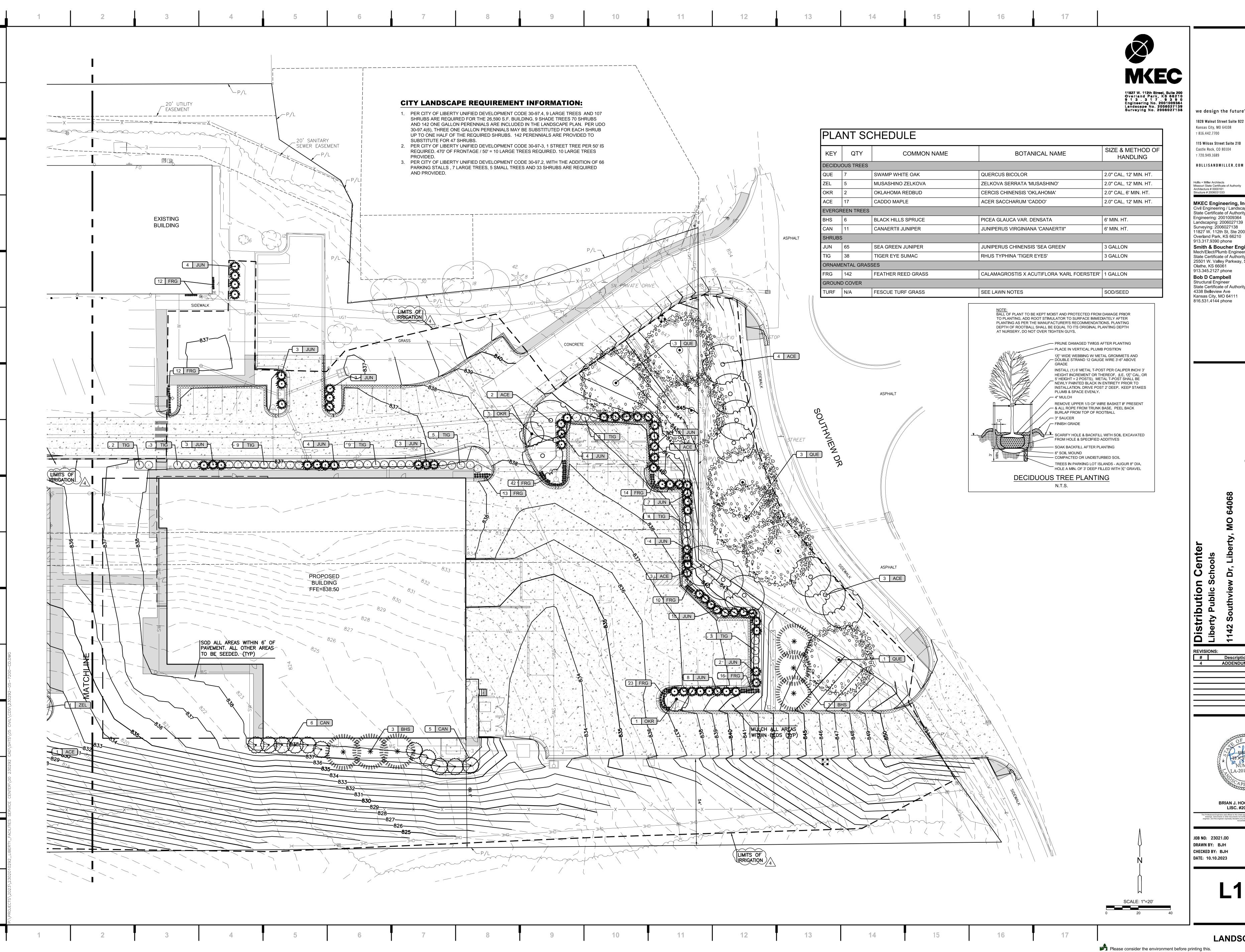


BRADEN L. TAYLOR, P.E. LISC. #2021001896

GRADING PLAN 1







we design the future 1828 Walnut Street Suite 922 Kansas City, MO 64108

MKEC Engineering, Inc.Civil Engineering / Landscape Architecture State Certificate of Authority #: Engineering: 2001009364 Landscaping: 2006027139

11827 W. 112th St, Ste 200 Overland Park, KS 66210 Smith & Boucher Engineers Mech/Elect/Plumb Engineer State Certificate of Authority #EGC-0001787 25501 W. Valley Parkway, Ste 200

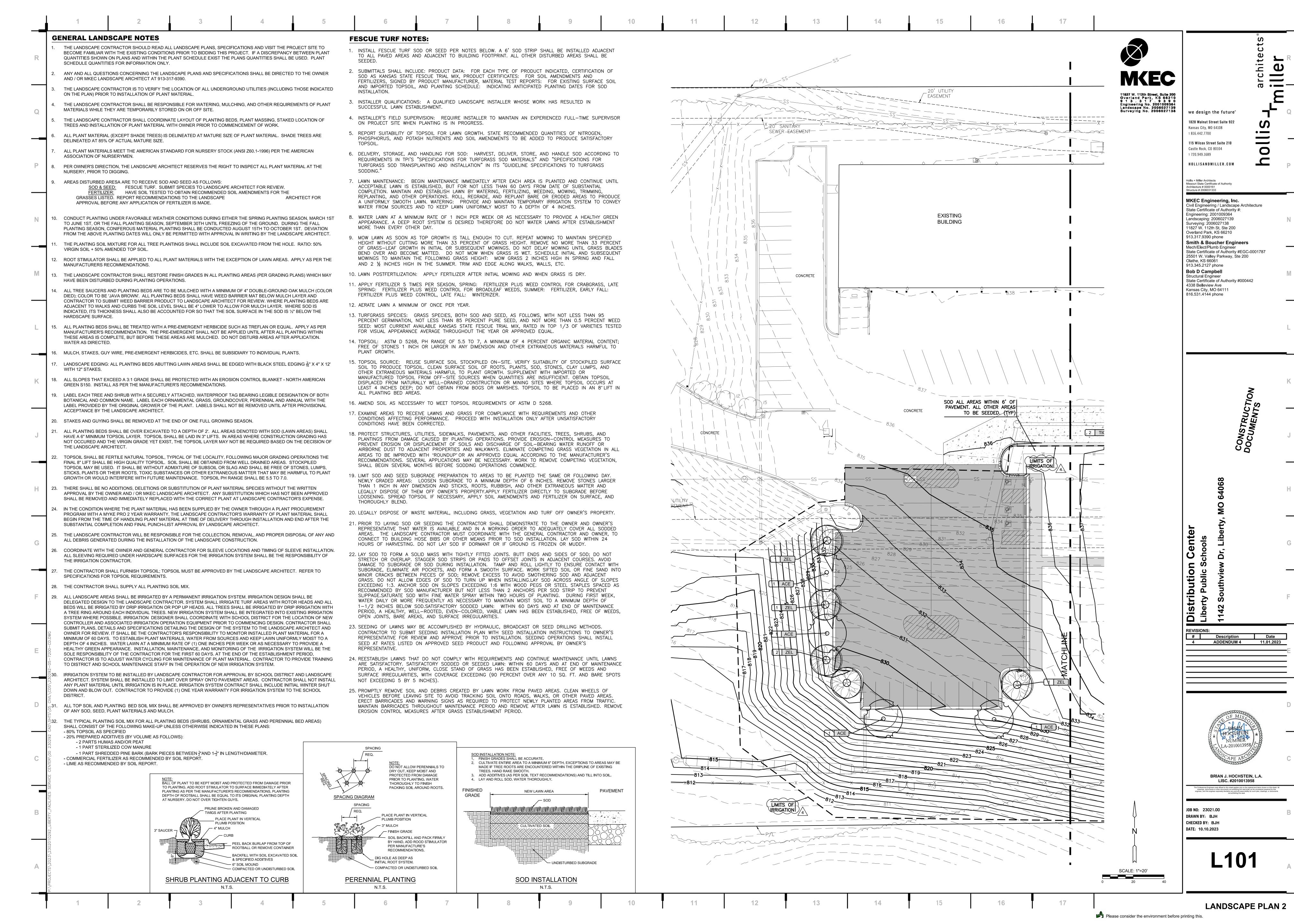
913.345.2127 phone State Certificate of Authority #000442 4338 Belleview Ave Kansas City, MO 64111 816.531.4144 phone

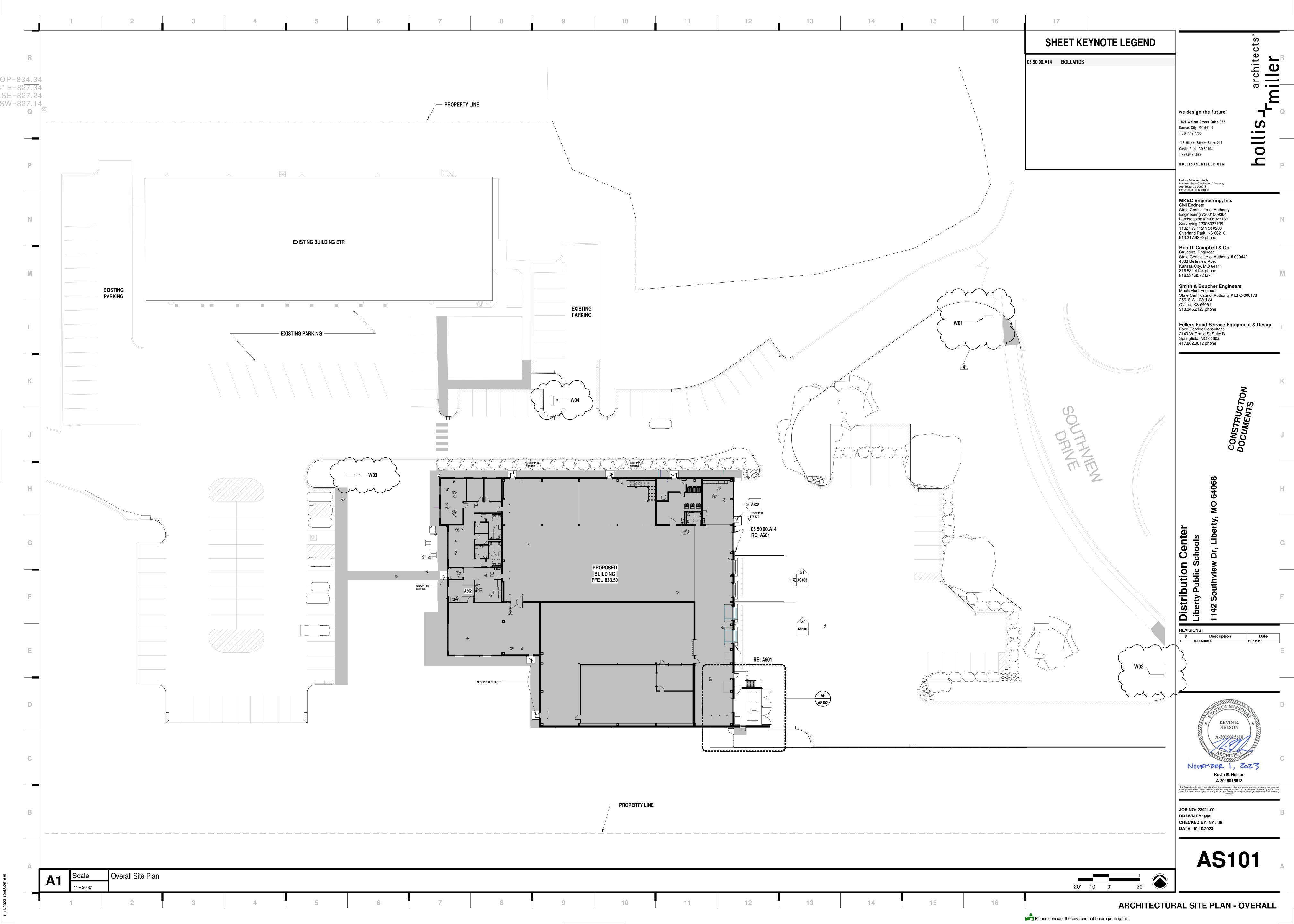
Description Date

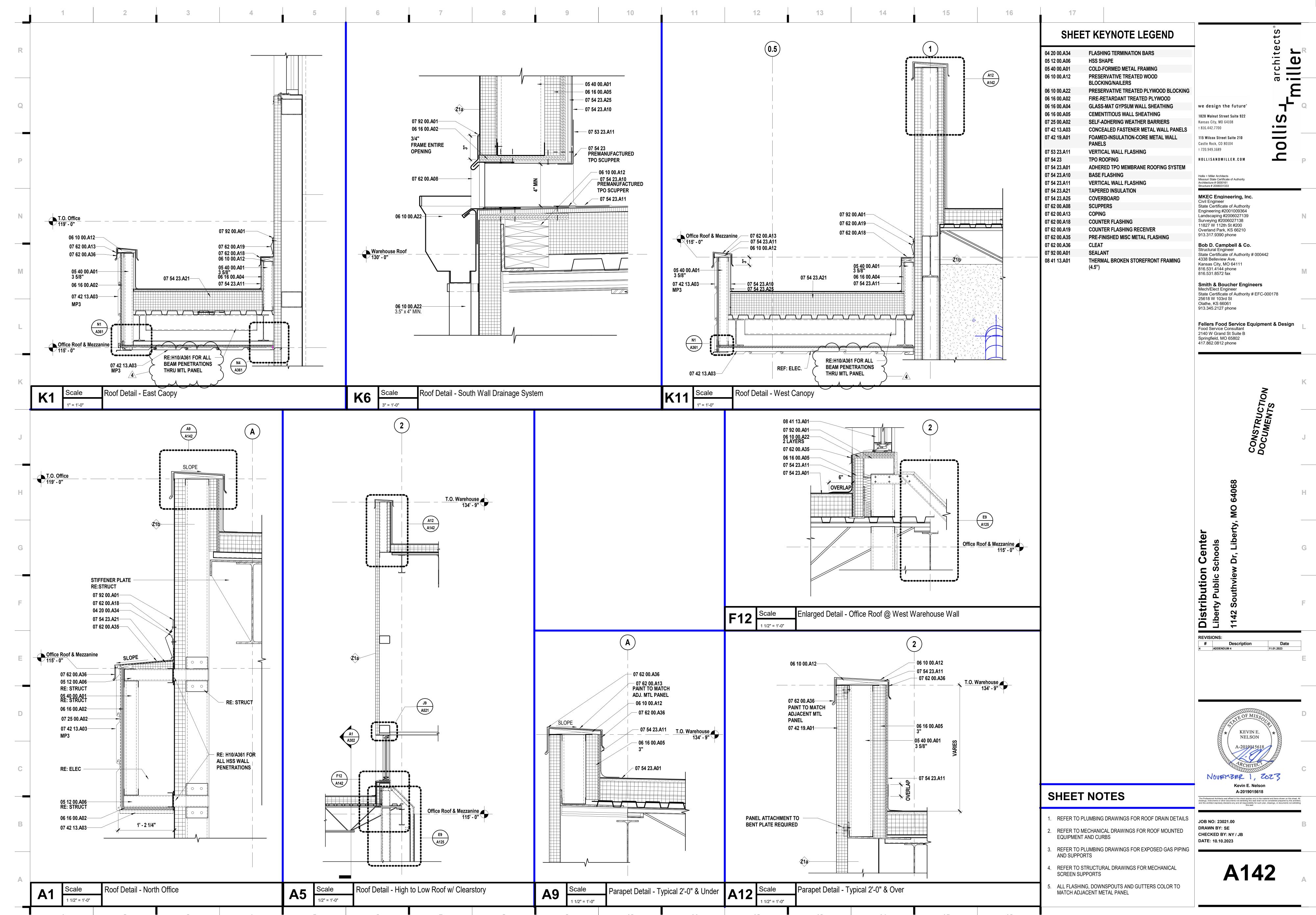


BRIAN J. HOCHSTEIN, L.A. LISC. #2010013958 The Professional Engineers seal affixed to this sheet applies only to the material and items shown on this sheet, drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plan, drawings, or document not exhibiting this seal.

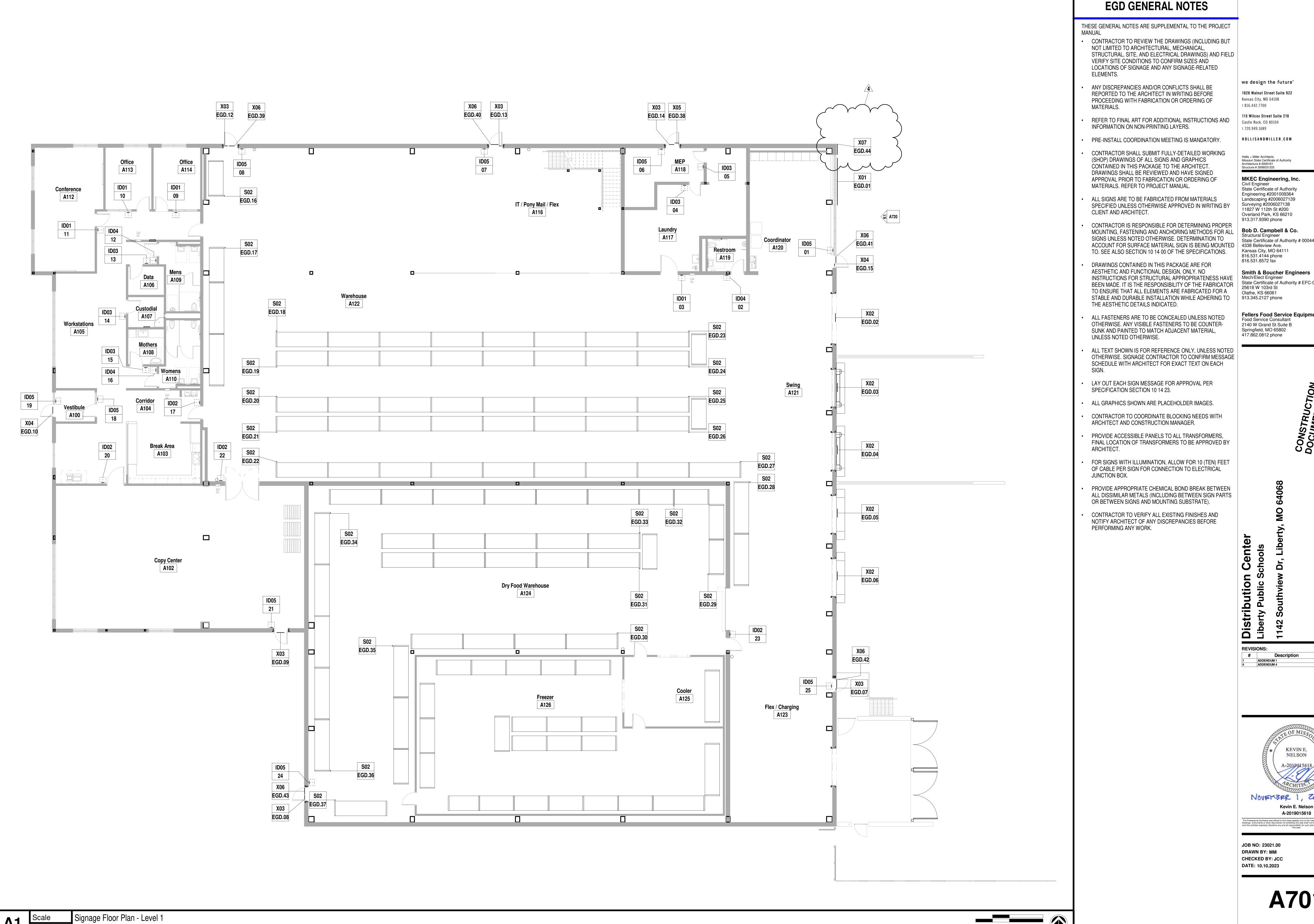
LANDSCAPE PLAN 1







ROOF DETAILS



SIGNAGE & ENVIRONMENTAL GRAPHICS FLOOR PLAN - OVERALL - LEVEL 1

archit ille

State Certificate of Authority # 000442

State Certificate of Authority # EFC-000178

Fellers Food Service Equipment & Design

NELSON

A701

			ADA	& Co	de Signa	ge Schedule	
Sign#	Sign Type	# On Sign	Message On Sign	Room: Number	Name on Drawing	Mounting Surface/ Method	Comments
01	ID05	-	EXIT	A120	Coordinator	MOUNTED ON GLASS	
02	ID04	-	RESTROOM	A119	Restroom		
03	ID01	TBD	-	A122	Warehouse		
04	ID03	-	MEP	A118	MEP		
05	ID03	-	TBD	A117	Laundry		
06	ID05	-	EXIT	A118	MEP		
07	ID05	-	EXIT	A116	IT / Pony Mail / Flex		
08	ID05	-	EXIT	A122	Warehouse		
09	ID01	TBD	-	A111	Corridor	MOUNTED ON GLASS	
10	ID01	TBD	-	A111	Corridor	MOUNTED ON GLASS	
11	ID01	TBD	-	A111	Corridor		
12	ID04	-	MENS	A109	Mens		
13	ID03	-	DATA	A106	Data		
14	ID03	-	CUSTODIAL	A107	Custodial		
15	ID03	-	MOTHERS ROOM	A108	Mothers		
16	ID04	-	WOMENS	A110	Womens		
17	ID02	TBD	TBD	A122	Warehouse		
18	ID05	-	EXIT	A104	Corridor	MOUNTED ON GLASS	
19	ID05	-	EXIT	A100	Vestibule	MOUNTED ON GLASS	
20	ID02	TBD	TBD	A102	Copy Center		
21	ID05	-	EXIT	A102	Copy Center		
22	ID02	TBD	TBD	A102	Copy Center		
23	ID02	TBD	TBD	A124	Dry Food Warehouse		
24	ID05	-	EXIT	A124	Dry Food Warehouse		
25	ID05	-	EXIT	A123	Flex / Charging		
26	ID06	-	ROOF ACCESS	A200	Mezzanine		

Sign #	Sign Type	Keynote	Description	Comments
	T	1	I	
EGD.01	X01	10 14 00.A30	"DISTRIBUTION CENTER"	
EGD.02	X02	10 14 00.A30	"1"	
EGD.03	X02	10 14 00.A30	"2"	
EGD.04	X02	10 14 00.A30	"3"	
EGD.05	X02	10 14 00.A30	"4"	
EGD.06	X02	10 14 00.A30	"5"	
EGD.07	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.08	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.09	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.10	X04	10 14 00.A43 & 10 14 00.A30	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	MOUNTED ON GLASS DOOR
EGD.12	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.13	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.14	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.15	X04	10 14 00.A43 & 10 14 00.A30	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	MOUNTED ON GLASS DOOR
EGD.16	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.17	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.18	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.19	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.20	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.21	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.22	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.23	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.24	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.25	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.26	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.27	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.28	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.29	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.30	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.31	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.32	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.33	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.34	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.35	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.36	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.37	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	
EGD.38	X05	10 14 00.A43	FIRE SPRINKLER ROOM VINYL LETTERS	
EGD.39	X06	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS	
EGD.40	X06	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS	
EGD.41	X06	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS	
EGD,42	X06.	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS	
EGD.43	X06 X06	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS	
EGD.43 EGD.44	X07	10 14 00.A43	ADDRESS	

EGD GENERAL NOTES

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16

THESE GENERAL NOTES ARE SUPPLEMENTAL TO THE PROJECT

- CONTRACTOR TO REVIEW THE DRAWINGS (INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, STRUCTURAL, SITE, AND ELECTRICAL DRAWINGS) AND FIELD VERIFY SITE CONDITIONS TO CONFIRM SIZES AND LOCATIONS OF SIGNAGE AND ANY SIGNAGE-RELATED
- ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH FABRICATION OR ORDERING OF
- REFER TO FINAL ART FOR ADDITIONAL INSTRUCTIONS AND
- CONTRACTOR SHALL SUBMIT FULLY-DETAILED WORKING (SHOP) DRAWINGS OF ALL SIGNS AND GRAPHICS CONTAINED IN THIS PACKAGE TO THE ARCHITECT. DRAWINGS SHALL BE REVIEWED AND HAVE SIGNED APPROVAL PRIOR TO FABRICATION OR ORDERING OF
- ALL SIGNS ARE TO BE FABRICATED FROM MATERIALS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY CLIENT AND ARCHITECT.
- SIGNS UNLESS NOTED OTHERWISE. DETERMINATION TO
- ALL FASTENERS ARE TO BE CONCEALED UNLESS NOTED OTHERWISE. ANY VISIBLE FASTENERS TO BE COUNTER-SUNK AND PAINTED TO MATCH ADJACENT MATERIAL, UNLESS NOTED OTHERWISE.
- OTHERWISE. SIGNAGE CONTRACTOR TO CONFIRM MESSAGE SCHEDULE WITH ARCHITECT FOR EXACT TEXT ON EACH
- SPECIFICATION SECTION 10 14 23.
- ALL GRAPHICS SHOWN ARE PLACEHOLDER IMAGES.
- PROVIDE ACCESSIBLE PANELS TO ALL TRANSFORMERS, FINAL LOCATION OF TRANSFORMERS TO BE APPROVED BY ARCHITECT.
- FOR SIGNS WITH ILLUMINATION, ALLOW FOR 10 (TEN) FEET OF CABLE PER SIGN FOR CONNECTION TO ELECTRICAL JUNCTION BOX.
- PROVIDE APPROPRIATE CHEMICAL BOND BREAK BETWEEN ALL DISSIMILAR METALS (INCLUDING BETWEEN SIGN PARTS OR BETWEEN SIGNS AND MOUNTING SUBSTRATE).

- ELEMENTS.
- MATERIALS.

INFORMATION ON NON-PRINTING LAYERS.

- PRE-INSTALL COORDINATION MEETING IS MANDATORY.
- MATERIALS. REFER TO PROJECT MANUAL.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER MOUNTING, FASTENING AND ANCHORING METHODS FOR ALL ACCOUNT FOR SURFACE MATERIAL SIGN IS BEING MOUNTED TO. SEE ALSO SECTION 10 14 00 OF THE SPECIFICATIONS.
- DRAWINGS CONTAINED IN THIS PACKAGE ARE FOR AESTHETIC AND FUNCTIONAL DESIGN, ONLY. NO INSTRUCTIONS FOR STRUCTURAL APPROPRIATENESS HAVE BEEN MADE. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO ENSURE THAT ALL ELEMENTS ARE FABRICATED FOR A STABLE AND DURABLE INSTALLATION WHILE ADHERING TO THE AESTHETIC DETAILS INDICATED.

ALL TEXT SHOWN IS FOR REFERENCE ONLY, UNLESS NOTED

- LAY OUT EACH SIGN MESSAGE FOR APPROVAL PER
- CONTRACTOR TO COORDINATE BLOCKING NEEDS WITH
- ARCHITECT AND CONSTRUCTION MANAGER.

- CONTRACTOR TO VERIFY ALL EXISTING FINISHES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING ANY WORK.

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we design the future° 1828 Walnut Street Suite 922 Kansas City, MO 64108

т 816.442.7700

115 Wilcox Street Suite 210 Castle Rock, CO 80104 т 720.949.1689

HOLLISANDMILLER.COM Hollis + Miller Architects Missouri State Certificate of Authority

Architecture # 0000161 Structure # 2006031333

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913.317.9390 phone Bob D. Campbell & Co. Structural Engineer State Certificate of Authority # 000442

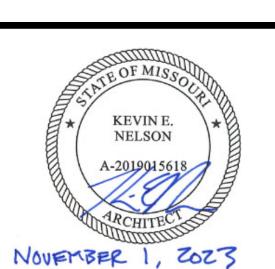
4338 Belleview Ave. Kansas City, MO 64111 816.531.4144 phone 816.531.8572 fax Smith & Boucher Engineers
Mech/Elect Engineer

State Certificate of Authority # EFC-000178 25618 W 103rd St Olathe, KS 66061 913.345.2127 phone

Fellers Food Service Equipment & Design Food Service Consultant 2140 W Grand St Suite B Springfield, MO 65802 417.862.0812 phone

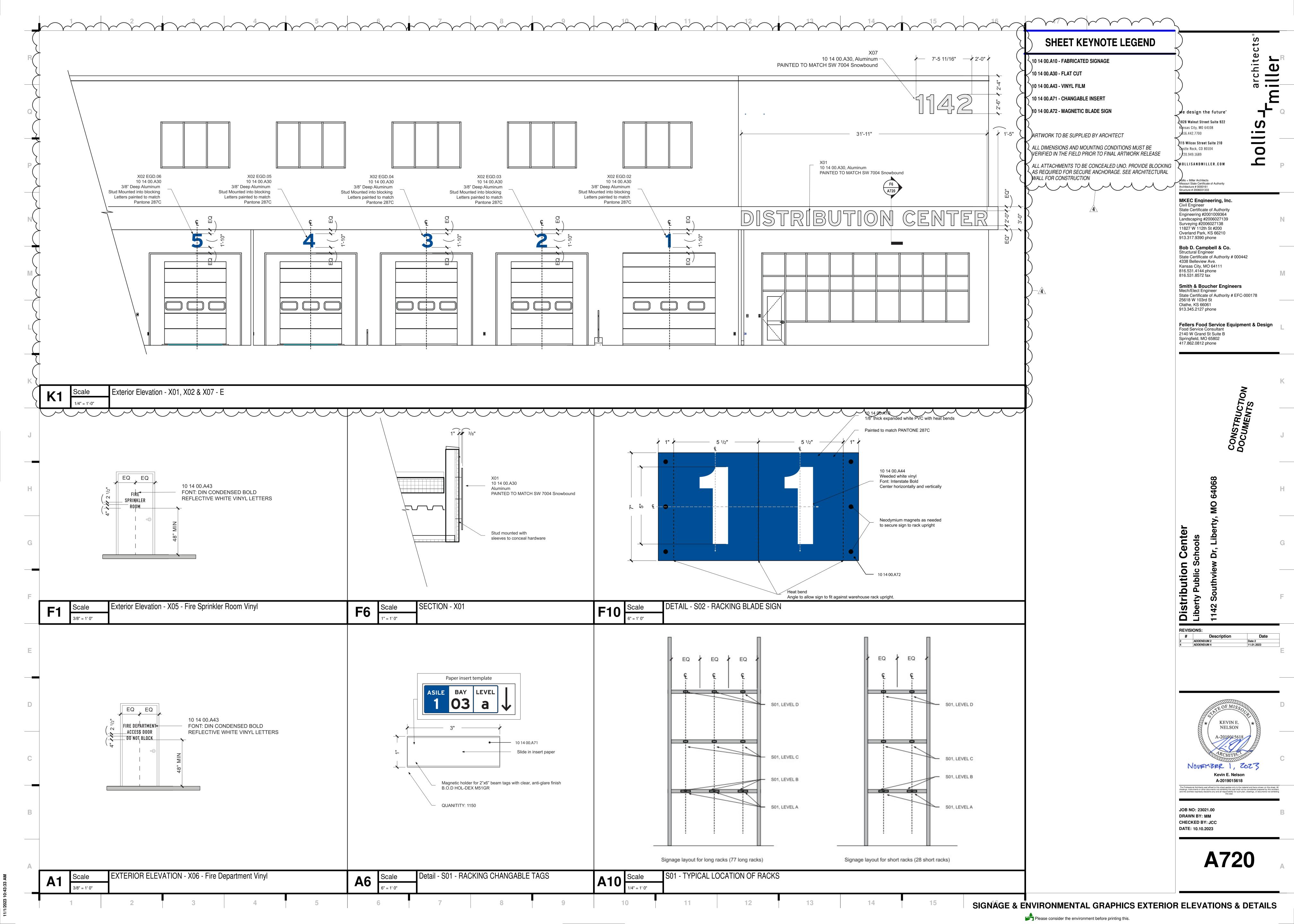


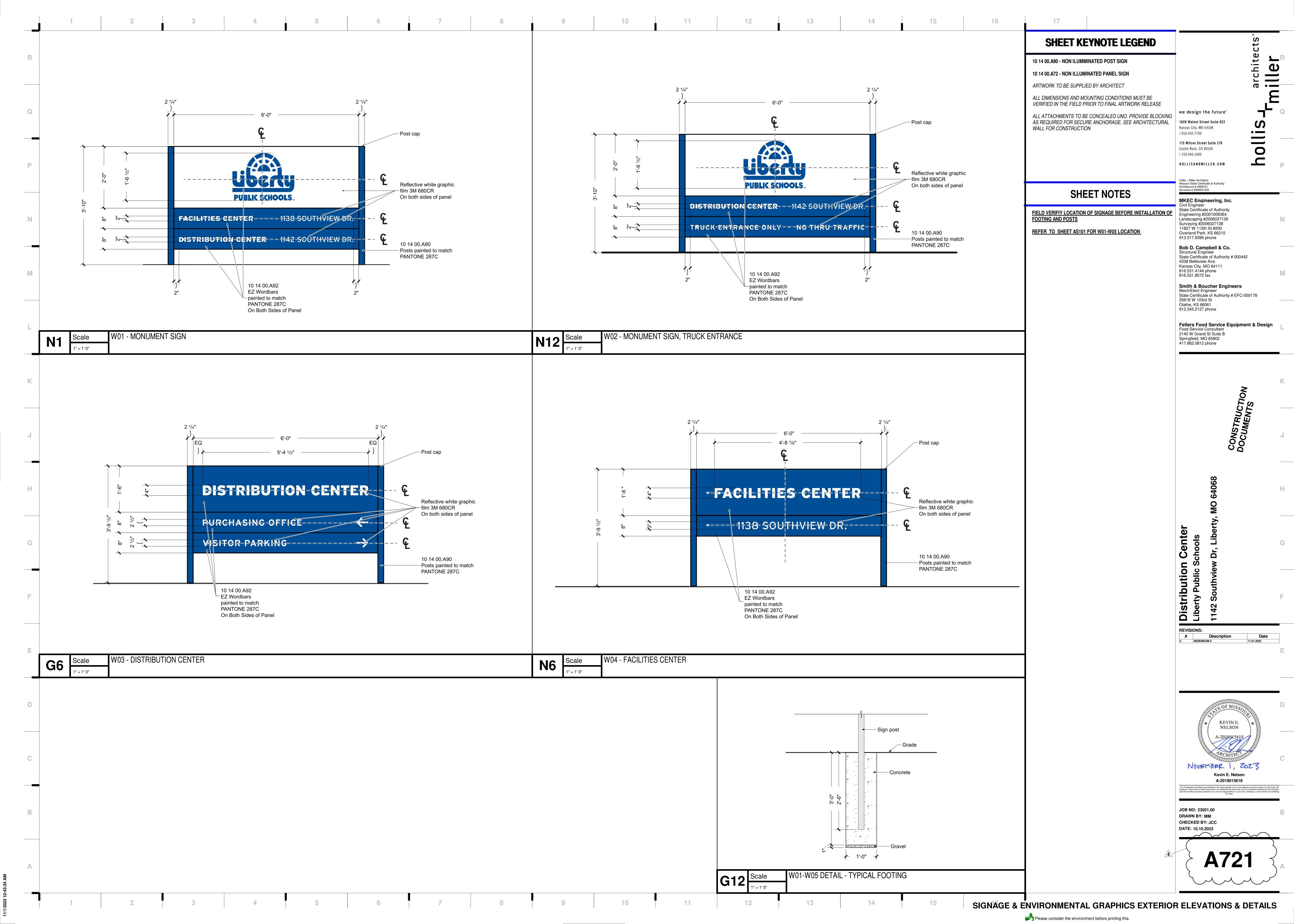
REVISIONS:



Kevin E. Nelson A-2019015618

JOB NO: 23021.00 **DRAWN BY: MM CHECKED BY: JCC** DATE: 10.10.2023





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GENERAL NOTES

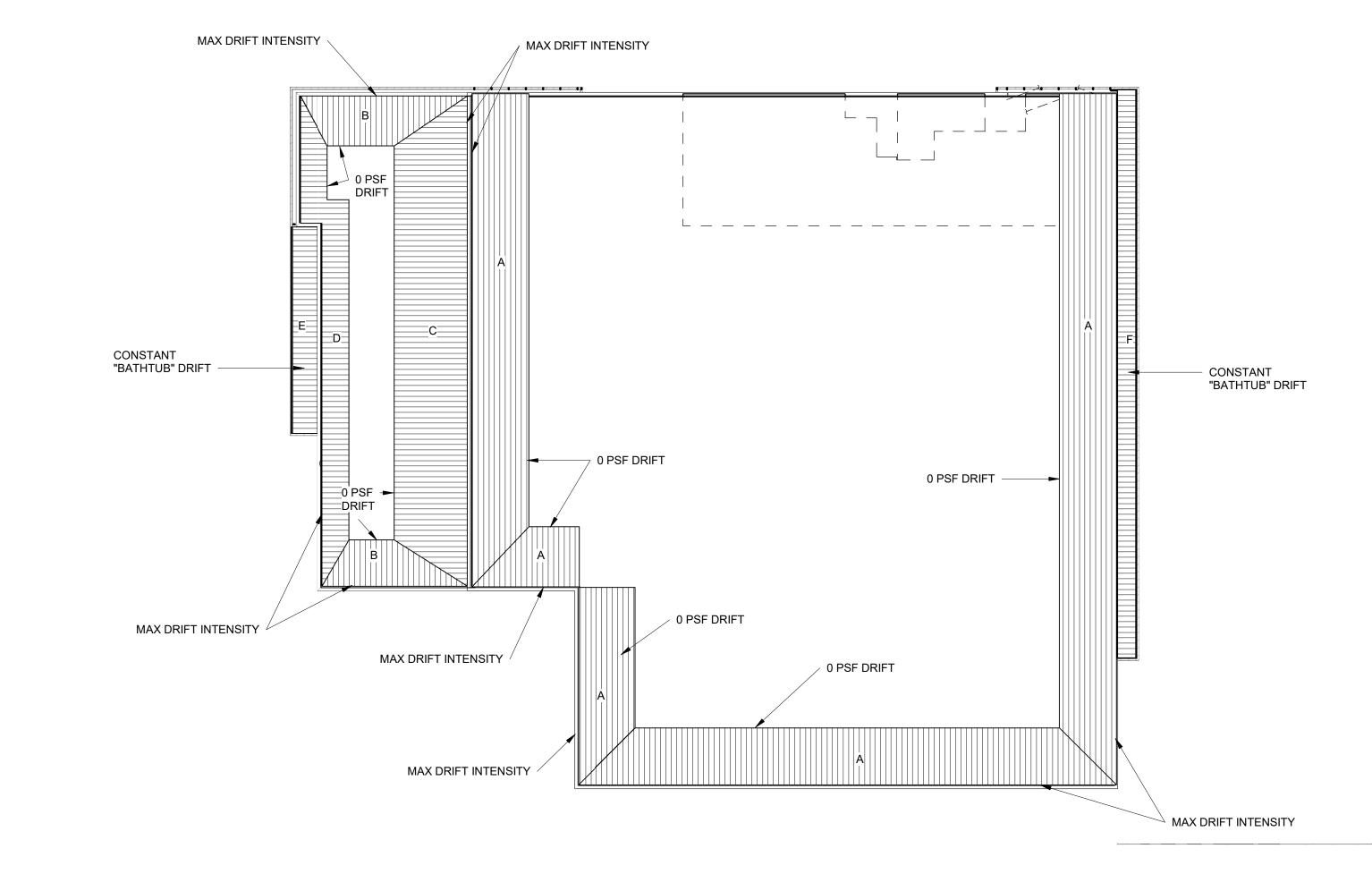
ASCE 7-16 BASIC LOAD CASE 1.0W COMPONENT AND CLADDING WIND PRESSURE DIAGRAM NOTES:

- REFER TO GENERAL NOTES FOR WIND LOAD DESIGN CRITERIA. POSITIVE LOADS ACT IN A PERPENDICULAR DIRECTION TOWARDS THE SURFACE. NEGATIVE
- LOADS ACT IN PERPENDICULAR DIRECTION AWAY FROM THE SURFACE. WIND LOADS CALCULATED ARE BASED ON THE PROVISIONS OF ASCE 7. VALUES SHOWN ARE DETERMINED ASSUMING AS ENCLOSED BUILDING WITH AN INTERNAL PRESSURE
- COEFFICIENT = +/- 0.18 AND A Kd FACTOR = 0.85. LOADS SHOWN ARE FROM UNFACTORED BASIC LOAD CASE LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS BETWEEN VALUES GIVEN.
- "a" SHALL BE THE LESSER OF 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 0.4x"h", BUT NOT LESS THAN 4 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 3 FT. FIGURES SHOWN ARE ILLUSTRATIVE ONLY AND ARE NOT INTENDED TO DEPICT THE ACTUAL
- STRUCTURE DIMENSIONS. ALL DESIGNERS USINGING THIS WIND LOAD DIAGRAM MUST INDEPENDENTLY VERIFY THE
- DESIGN PRESSURES BASED ON THE APPLICABLE BUILDING CODE. ROOF PRESSURES ARE FOR FLAT ROOF ONLY. WIND LOADS FOR THE DESIGN OF SLOPED ROOFS (WITH ANGLES GREATER THAN 10 DEGREES) SHALL BE OBTAINED USING THE
- PROVISIONS OF ASCE 7-16. PARAPETS SHALL BE DESIGNED FOR COMPONENTS AND CLADDING LOADS PER ASCE 7 SECTION 6.5.12.4.4. IF A PARAPET 3'-0" OR HIGHER OCCURS AROUND THE PERIMETER OF THE

ROOF, ZONE 3 M	1.4. IF A PARAPET 3-0 OR HIGHER OCCURS AROUND THE PERIMETER OF THE 1AY BE TREATED AS ZONE 2 FOR ROOF PRESSURE AND SUCTION.	
	ROOF ZONE 1 ROOF ZONE 1'	
BUILDING ISOMETRIC VIEW	ROOF ZONE 2	
	ROOF ZONI	E 3
MEAN ROOF HEIGHT		
<u>-</u>		

	FLAT ROOF (SLOPE LESS THAN 3 DEGREES) BUILDING COMPONENT AND CLADDING DESIGN WIND PRESSURES (+) AND SUCTION (-) (PSF)														
EFFECTIVE AREA (SQ. FT.)					5	50		100		200		500		1000	
ZONE 1	-55.7	14.7	-52.8	13.2	-46.9	7.9	-44.0	11.7	-41.1	11.7	-35.2	11.7	-35.2	11.7	
ZONE 1'	-32.3	14.7	-32.3	13.2	-32.3	7.9	-32.3	11.7	-27.9	11.7	-22.0	11.7	-17.6	11.7	
ZONE 2	-73.3	14.7	-68.9	13.2	-63.1	7.9	-58.7	11.7	-52.8	11.7	-46.9	11.7	-46.9	11.7	
ZONE 3	-99.7	14.7	-90.9	13.2	-79.2	7.9	-68.9	11.7	-58.7	11.7	-46.9	11.7	-46.9	11.7	
ZONE 4	-38.1	35.2	-36.7	35.2	-35.2	33.7	-32.3	29.3	-30.8	29.3	-29.3	29.3	-29.3	24.3	
ZONE 5	-46.9	35.2	-44.0	35.2	-39.6	33.7	-36.7	29.3	-33.7	29.3	-29.3	29.3	-29.3	24.3	

BUILDING COMPONENTS & 1 CLADDING WIND LOADS DIAGRAM



14

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17

DR	IFT LOAD CHART	
DRIFT LOAD TYPE	DRIFT MAX INTENSITY (PSF)	DRIFT WIDTH "W"
DRIFT A	59	13'-3"
DRIFT B	48	10'-9"
DRIFT C	76	17'-0"
DRIFT D	28	6'-3"
DRIFT E	40	"BATHTUB"
DRIFT F	76	"BATHTUB"
DRIFT G	13	3'-0"
DRIFT H	37	8'-3"
DRIFT J	53	12'-0"

SNOW DRIFT LOAD DIAGRAM NOTES:

- GROUND SNOW LOAD AND FLAT SNOW LOADS ARE INDICATED IN GENERAL NOTE 2 ON SHEET S001.
- SNOW DRIFT LOAD IS IN ADDITION TO THE GROUND SNOW LOAD INDICATED IN GENERAL NOTE 2 ON SHEET S001.
- ROOF FRAMING MEMBERS DESIGNED BY SUPPLIER SHALL BE DESIGNED FOR THE WORST CASE LOAD EFFECTS RESULTANT FROM GROUND SNOW, UNBALANCED SNOW, SNOW DRIFT, AND RAIN-ON-SNOW LOADS TAKEN IN COMBINATION AS REQUIRED BY ASCE 7.

2 SNOW DRIFT LOAD DIAGRAM

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Hollis + Miller Architects Missouri State Certificate of Authority Architecture # 0000161 Structure # 2006031333

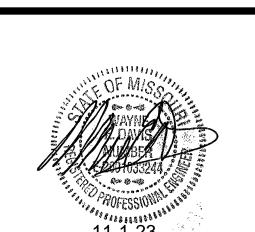
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REVISIONS:



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JOB NO: 23021.00 DRAWN BY: RWO **CHECKED BY: WED**

DATE: 11.1.2023

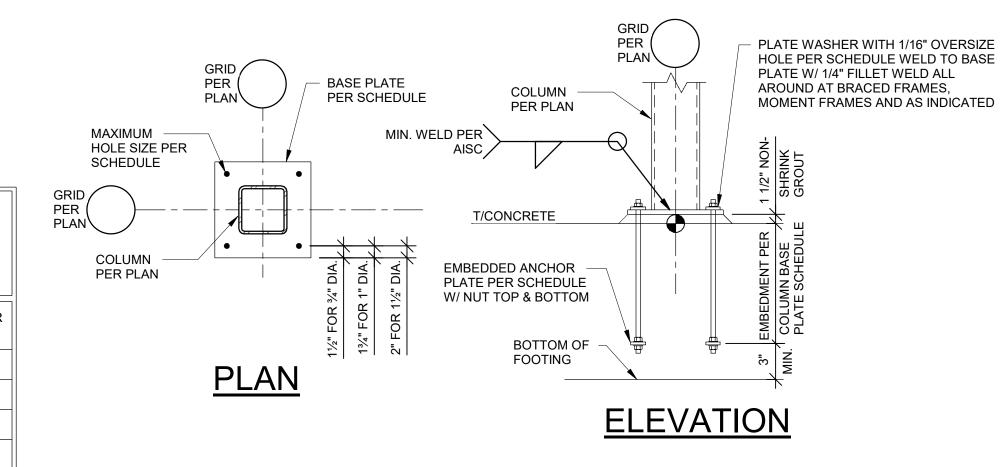
S002

Please consider the environment before printing this.

BUILDING DESIGN LOADS

TYPE	COLUMN	BASE PLATE (txBxN)	SHAPE	ANCHOR RODS	EMBEDMEN ⁻
(1)	PER PLAN	3/4"x14"x14"	Α	(4) 3/4" Ø	12"
2	PER PLAN	3/4"x11"x11"	А	(4) 3/4" Ø	12"
$\sqrt{3}$	PER PLAN	3/4"x14"x22"	~~°	(4) 3/4" Ø	12"
4	PER PLAN	1"x18"x22"	E	(6) 1" Ø	24"
5	PER PLAN	3/4"x22"x22"	\sim	(4)3/4"A	
6	PER PLAN	1"x22"x28"	E	(6) 1" Ø	24"
7	PER PLAN	3/4"x11"x11"	B	(4) 3/4" Ø	12"
8	PER PLAN	3/4"x11"x11"	D	(4) 3/4" Ø	12"
مرقهم	PERPLAN	3/4"×11"×11"	~F~	~~(4)3(4"P~~	12"
(10)	PER PLAN	1"x11"x17"	G	(6) 1" Ø	24"
(11)	PER PLAN	3/4"x16"x22"	H	(4) 3/4" Ø	12"
NOT	ES:				

	BASE PLATE S	HAPE (NOT TO SC	ALE)
EQ. EQ.	1 1/2" TYP. ————————————————————————————————————	1 1/2" TYP. BQ. EQ. EQ. N	1 1/2" TYP. 3 1 1/2" TYP. 3 N=B
E	TYP. 1 1/2" TYP. 1 1/2" 1 1/2" 1 1/2" 1 1/2"	1 1/2" Typ. Eq. Eq. 6" Typ.	1 1/2" TYP. BQ. EQ. N



1 TYPICAL BASE PLATE DETAIL 3/4" = 1'-0"

COLUMN BASE PLATE AND ANCHOR-ROD CRITERIA										
ANCHOR-ROD DIAMETER.	MAX. BASE PLATE HOLE DIAMETER.	MIN. PLATE WASHER SIZE.	MIN. PLATE WASHER THICKNESS	EMBEDDED ANCHOR PLATE SIZE						
3/4"	1 5/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"						
7/8"	1 9/16"	2 1/2"	5/16"	1/2"x2 1/2"x2 1/2"						
1"	1 7/8"	3"	3/8"	5/8"x3"x3"						
1 1/4"	2 1/8"	3 1/2"	1/2"	5/8"x3 1/2"x3 1/2"						
1 1/2"	2 3/8"	4"	1/2"	5/8"x3 1/2"x3 1/2"						
1 3/4"	2 7/8"	4 1/2"	5/8"	3/4"x3 1/2"x3 1/2"						

5 1/2"

3/4"x3 1/2"x3 1/2"

3/4"x3 1/2"x3 1/2"

NOTES:

1. HOLE SIZES PROVIDED ARE BASED ON ANCHOR ROD SIZE AND CORRELEATE WITH ACI 117 (ACI, 2010)

2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.

3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN ANCHOR DIAMETER.

3 1/4"

3 3/4"

2 1/2"

EXTERIO	R METAL STUD SCHEDULE
FLOOR	TYP. STUD SIZE & SPACING
1st	6", 16ga @ 16"o.c. (1 5/8" FLANGE)

 STUDS NOTED ABOVE ARE MINIMUM SIZE REQUIRED.
 STUDS SUPPLIER SHALL DESIGN WALL FRAMING COMPONENTS AND ALL CONNECTIONS. SUBMIT SEALED SHOP DRAWINGS AND CALCULATIONS FOR REVIEW.

C	CONCRETE PILASTER SCHEDULE									
		RETE (PSI): 3500		REBAR (KSI): 60						
MARK	SIZE	VERT. REINF.		TIES	TIE SPACING	SHAPE				
P1	24"x34"	(10) #8		(3) #3	(3) @ 3"o.c. TOP REMAINDER @ 12"o.c.					
P2	34"x34"	(12) #9		(3) #3	(3) @ 3"o.c. TOP REMAINDER @ 12"o.c.					

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17

NOTE:
1.) PILASTER ARE TO BE CENTERED ON STEEL COLUMN

14

SPECIFIED RE 2.) PROVIDE R	BAR TOP AND BO EINFORCING PER	OTTOM WITH 4 S R SCHEDULE EA	STANDEES TO SUPPO ACH WAY IN TOP OF F	RT MATS. TG. AT ALL MOMEN	EPTH AND BE PLACED WITH T FRAME AND BRACED BAY	Y COLUMNS.
Type	OUTINGS ON COL	UMNS AND/OR \	Footing	Bottom	NOTED OTHERWISE (U.N.C	0.).
Mark	Length	Width	Thickness	Bars	(E.W. Bott)	
3.5A	3'-6"	3'-6"	1'-4"	Rebar : # 4	7	
4.5	4'-6"	4'-6"	2'-8"	Rebar : # 4	9	
4.5A	4'-6"	4'-6"	1'-4"	Rebar : # 4	9	
5.0	5'-0"	5'-0"	2'-8"	Rebar : # 5	7	
6.0	6'-0"	6'-0"	2'-8"	Rebar : # 5	8	
6.0A	6'-0"	6'-0"	1'-4"	Rebar : # 5	8	
6.5A	6'-6"	6'-6"	1'-4"	Rebar : # 6	6	
7.0	7'-0"	7'-0"	2'-8"	Rebar : # 6	7	
7.0A	7'-0"	7'-0"	1'-4"	Rebar : # 6	7	
7.5A	7'-6"	7'-6"	1'-4"	Rebar:#6	7	
8.5A	8'-6"	8'-6"	3'-0"	Rebar : # 7	9	}
10.5A	10'-6"	10'-6"	3'-0"	Rebar : # 7	12	}

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Mech/Elect Engineer
State Certificate of Authority # 25618 W 103rd St Olathe, KS 66061 913.345.2127 phone

Fellers Food Service Equipment & Design
Food Service Consultant State Certificate of Authority # 2140 W Grand St Suite B Springfield, MO 65802 417.862.0812 phone

REVISIONS: # Description
4 ADDENDUM #4

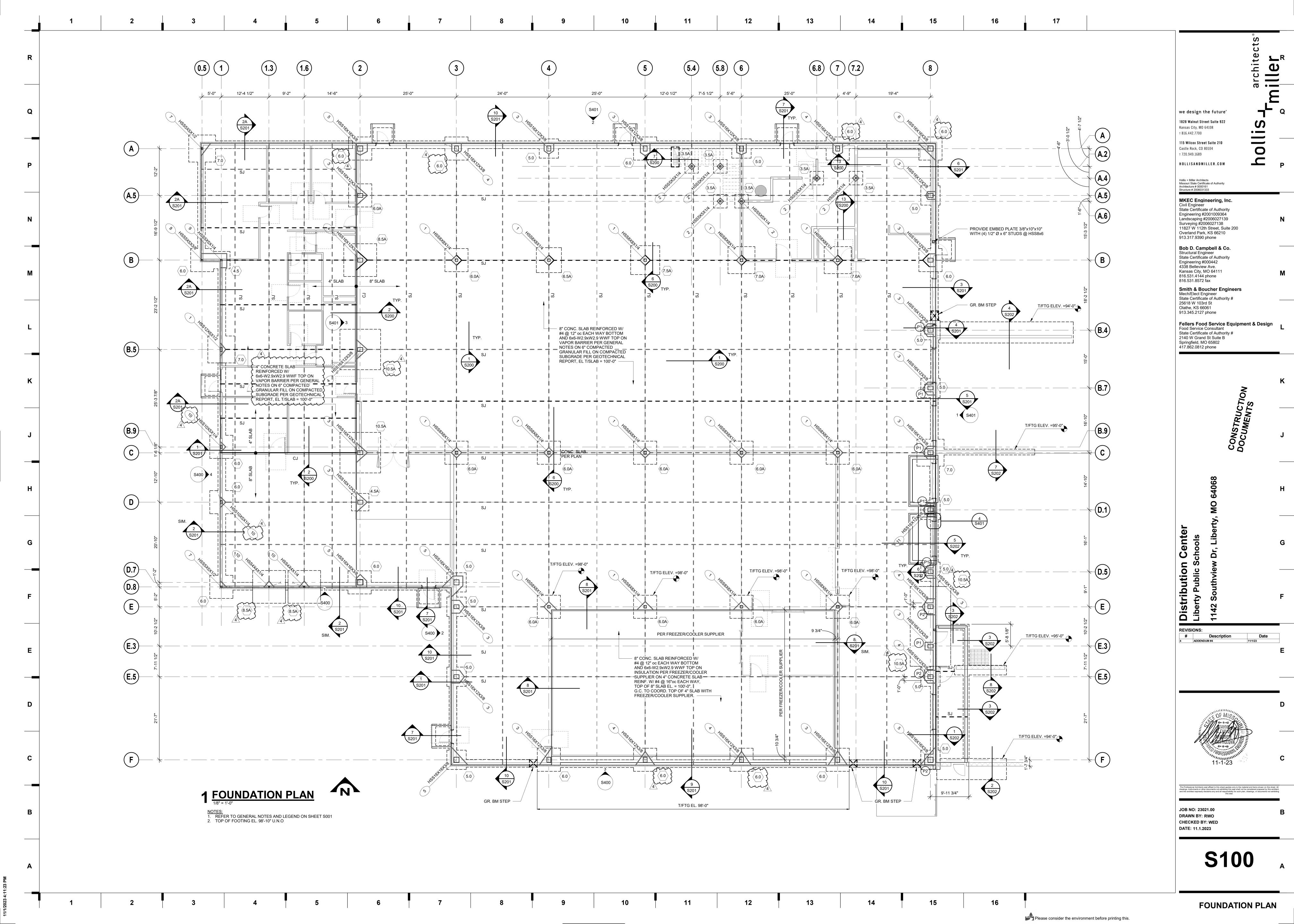


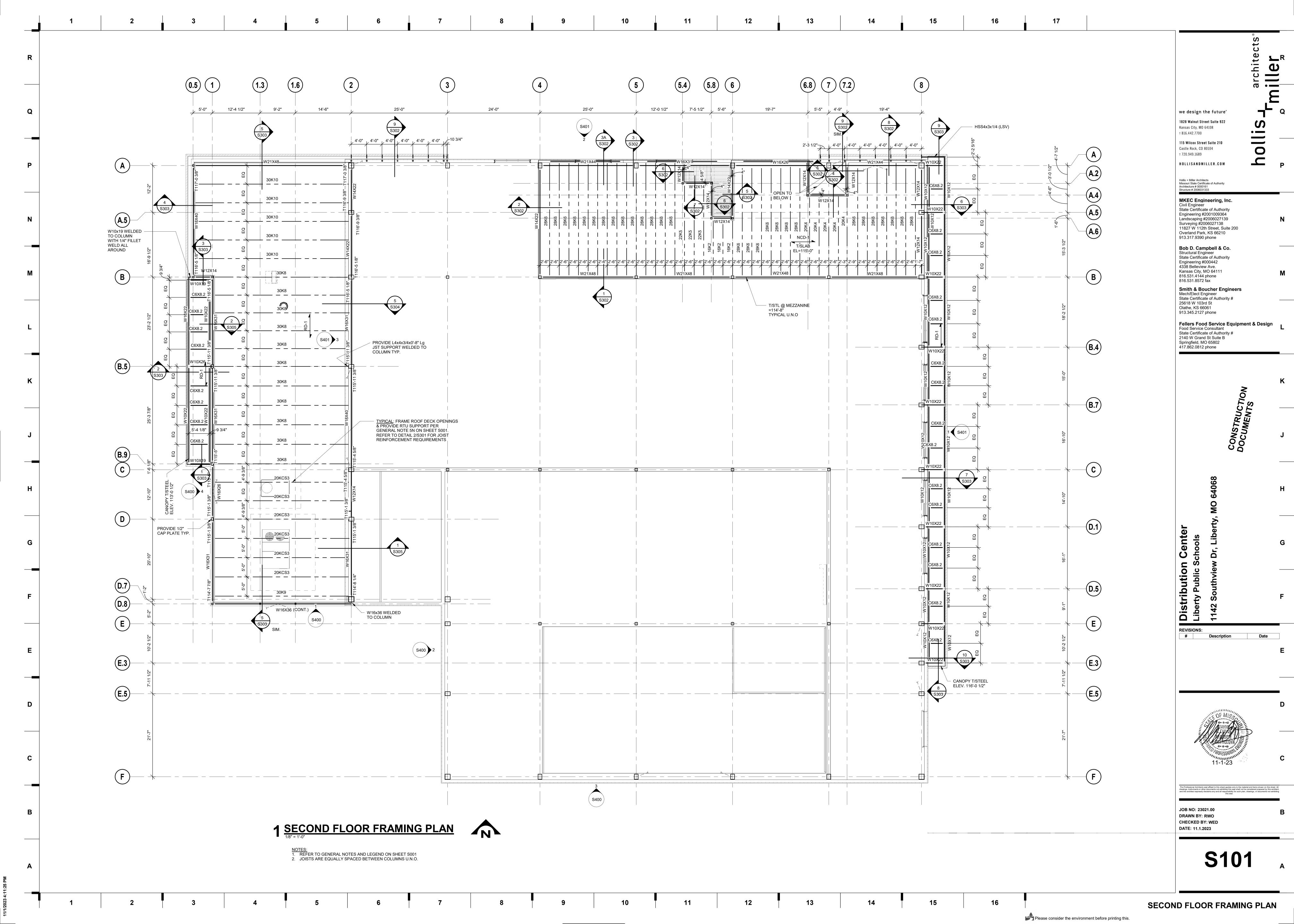
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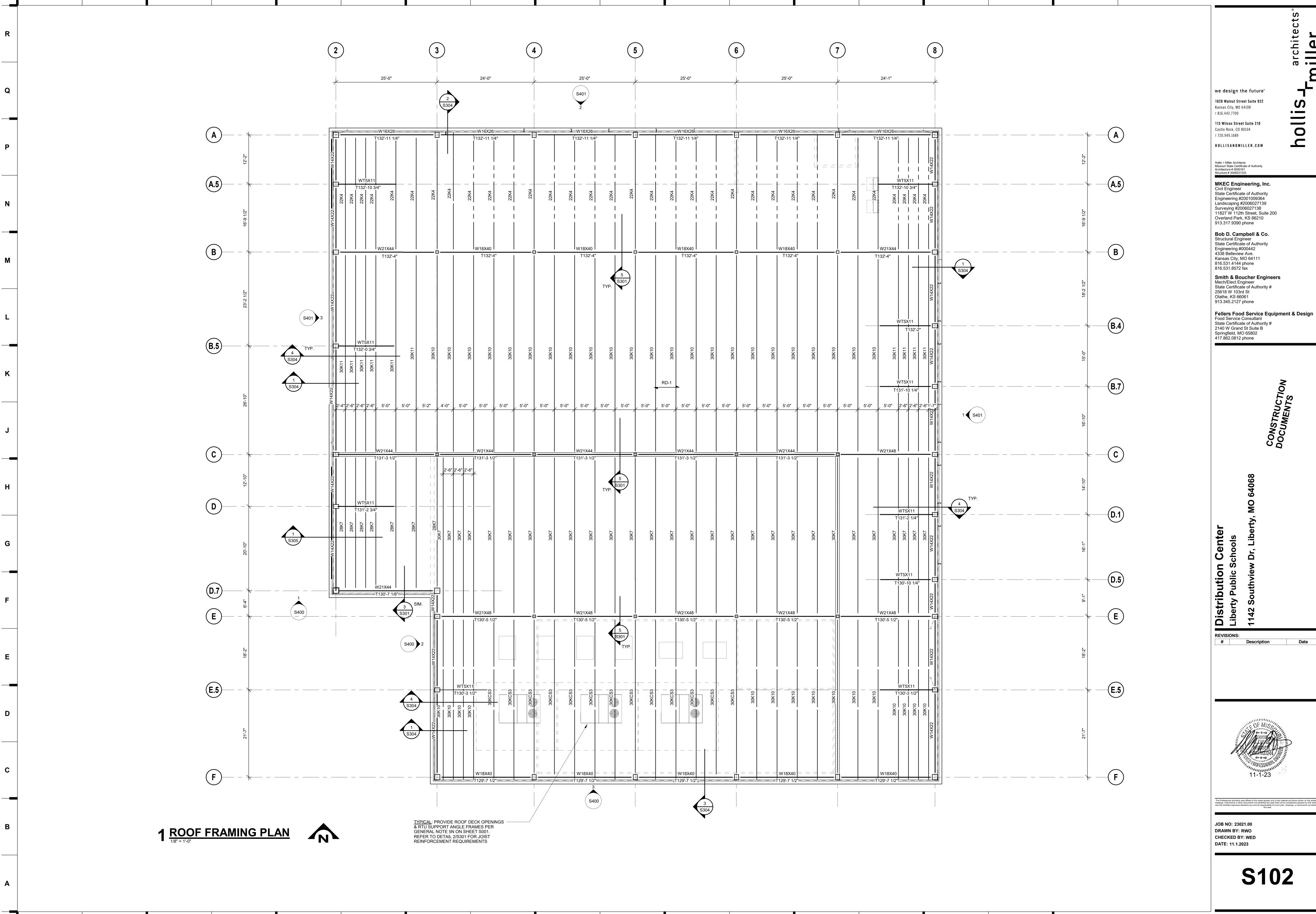
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SCHEDULES

Q



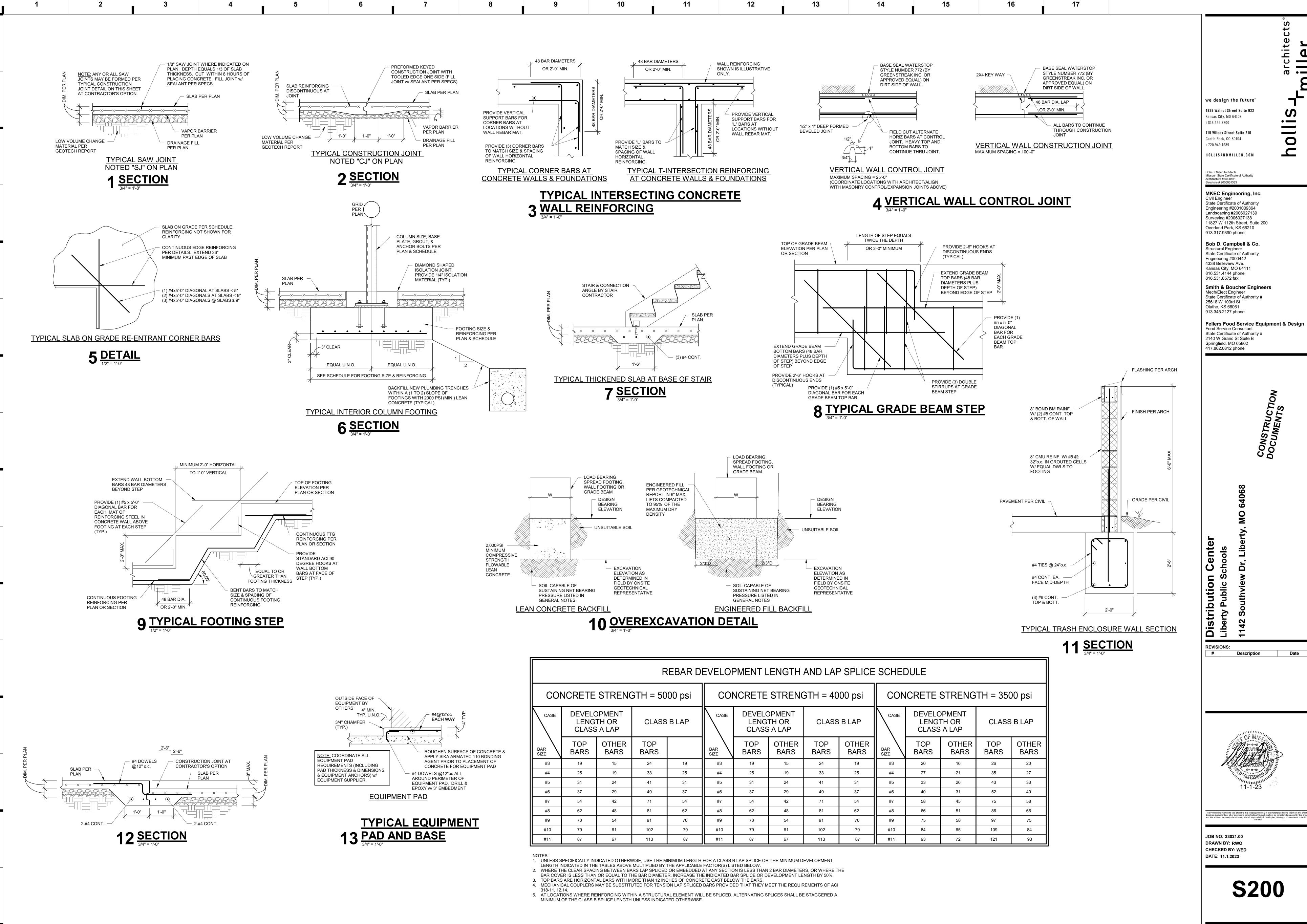




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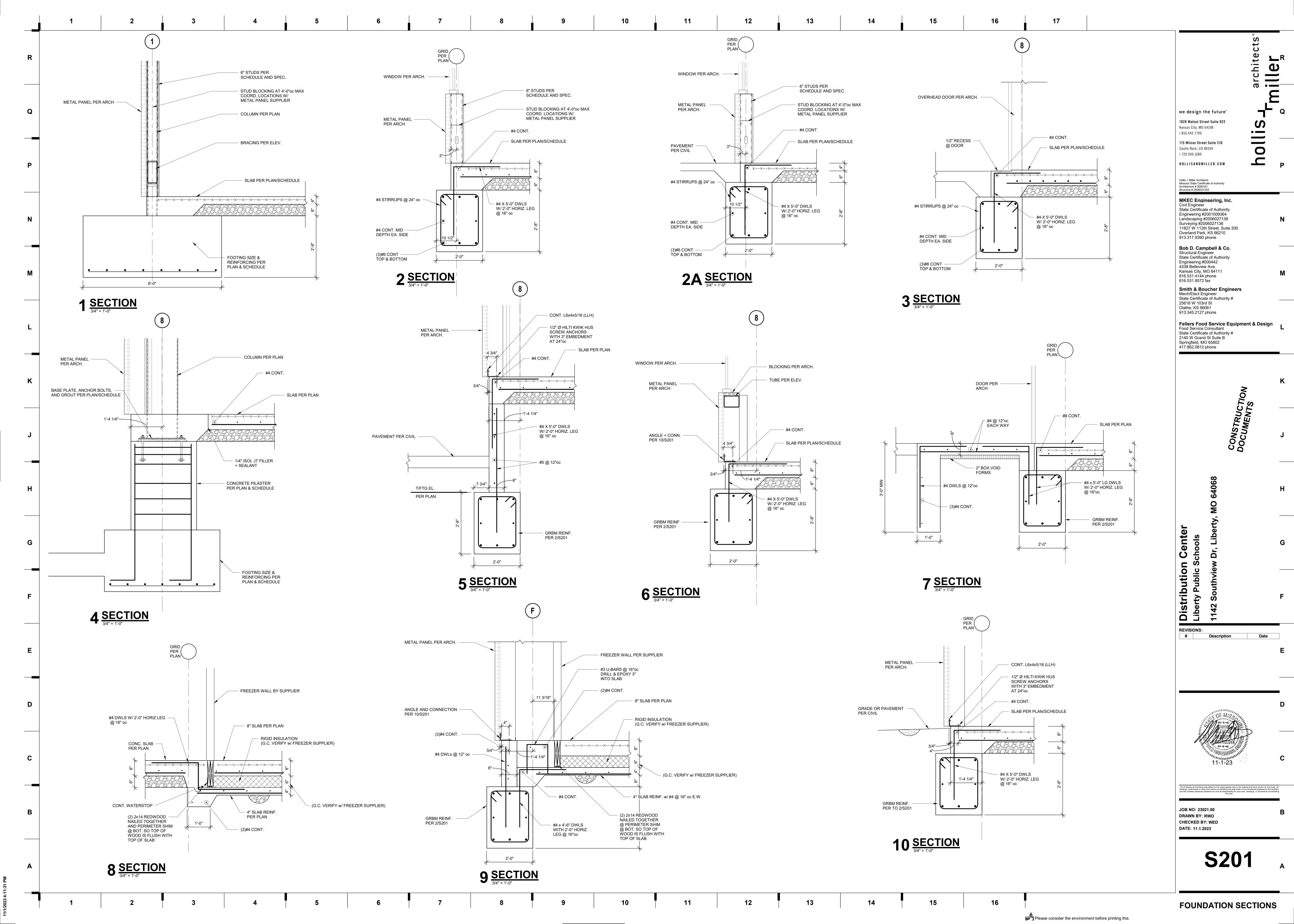
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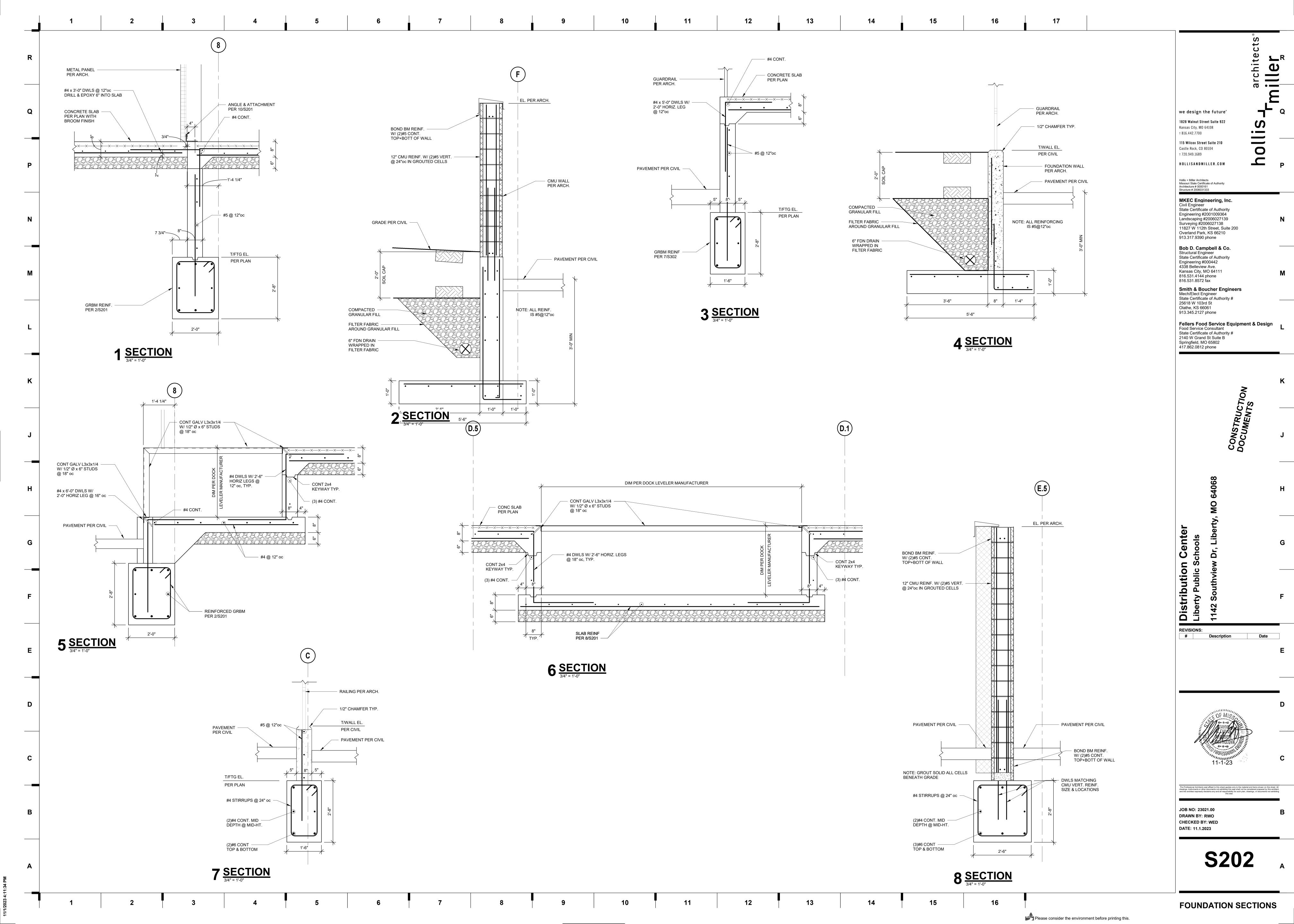
ROOF FRAMING PLAN

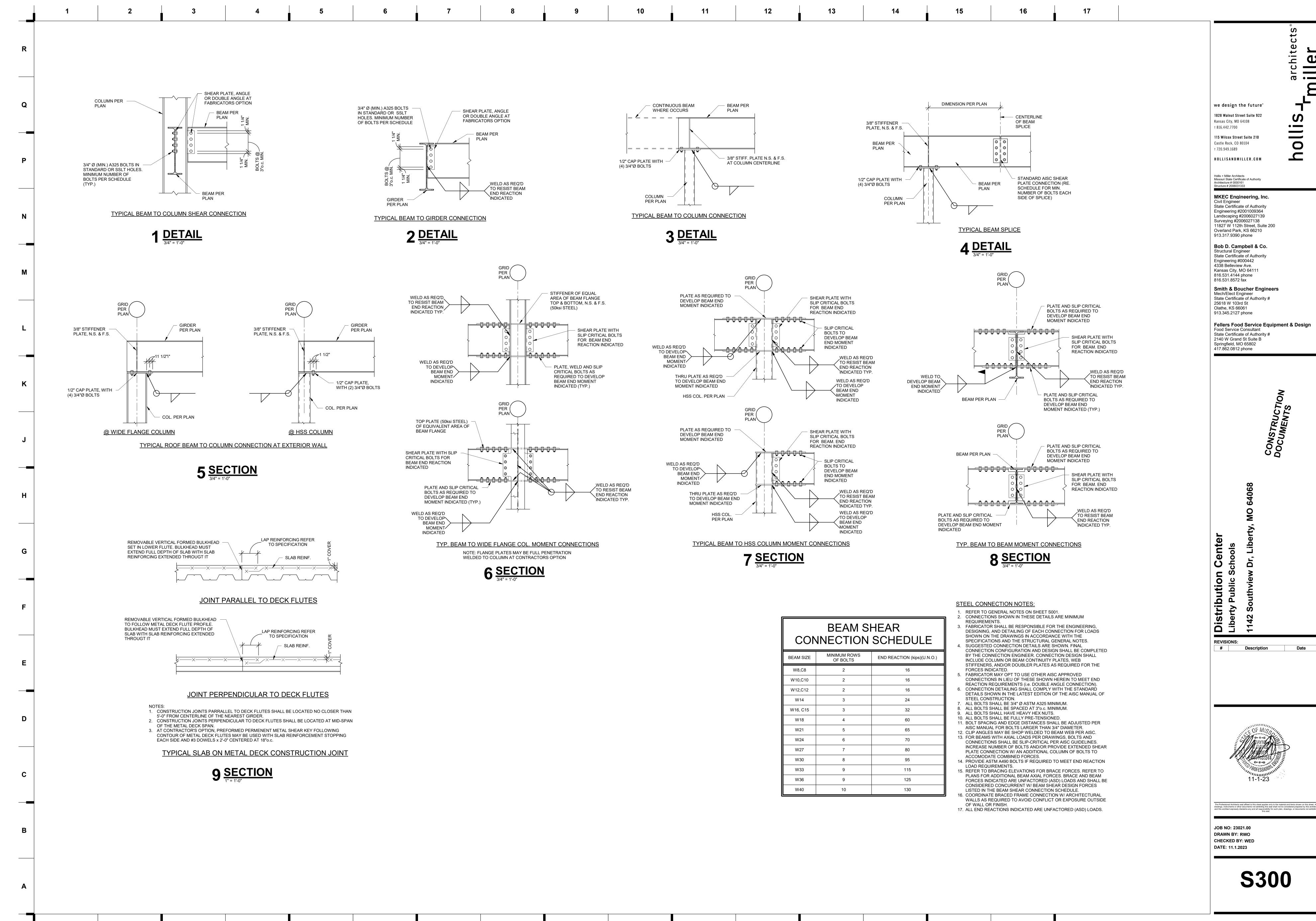


EQUINDATION SECTIONS

FOUNDATION SECTIONS



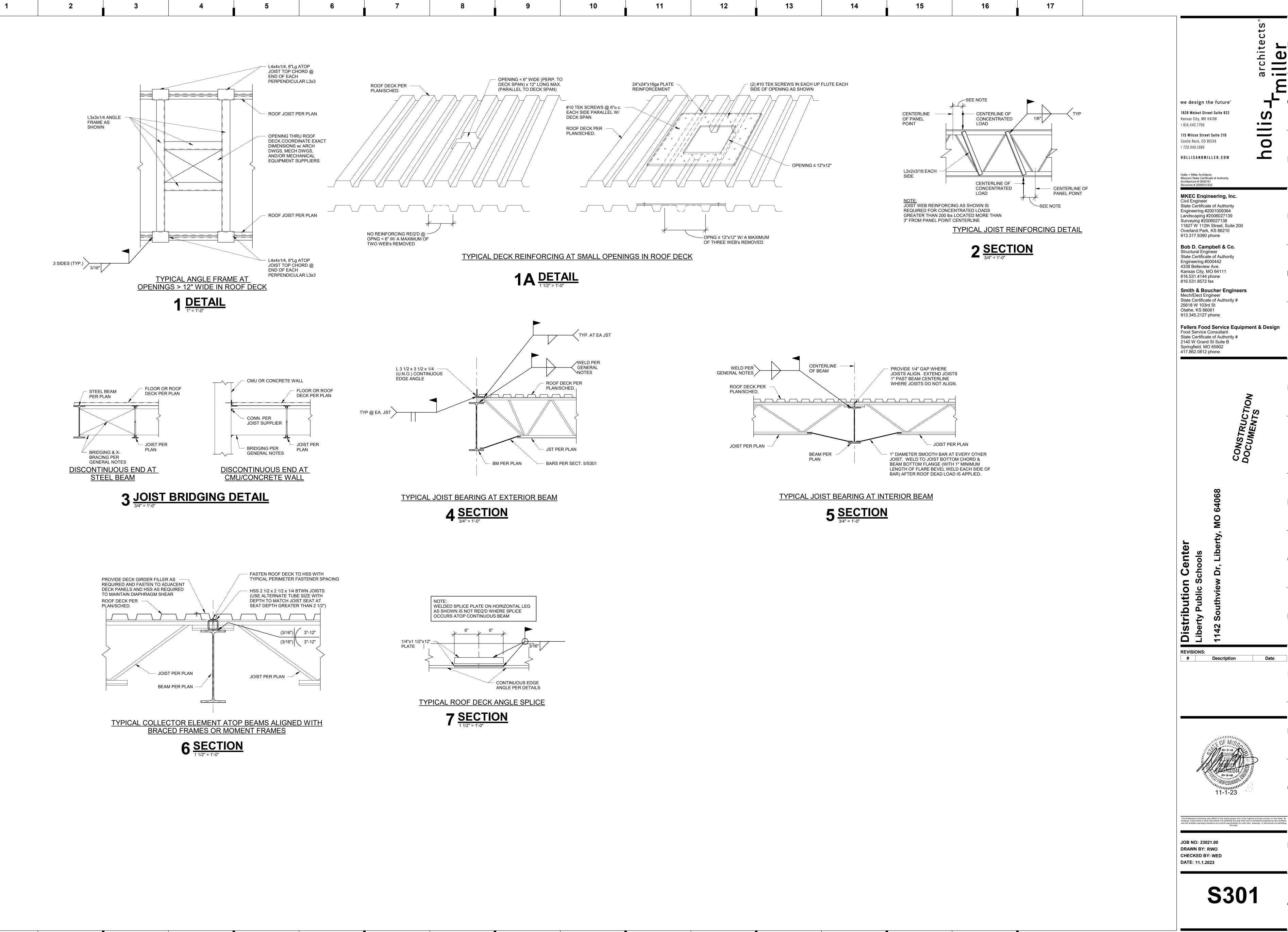




ROOF FRAMING SECTIONS

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Description

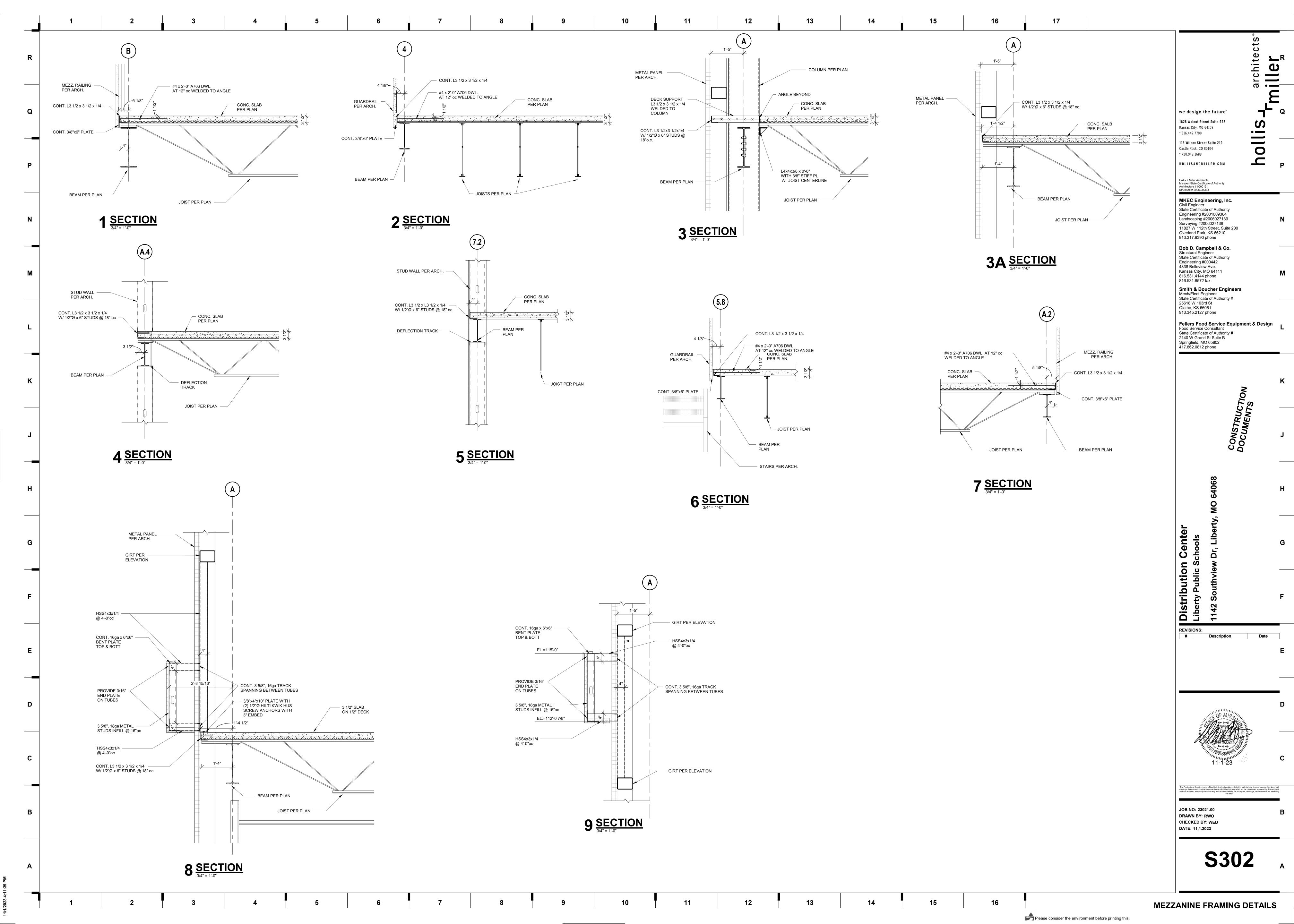


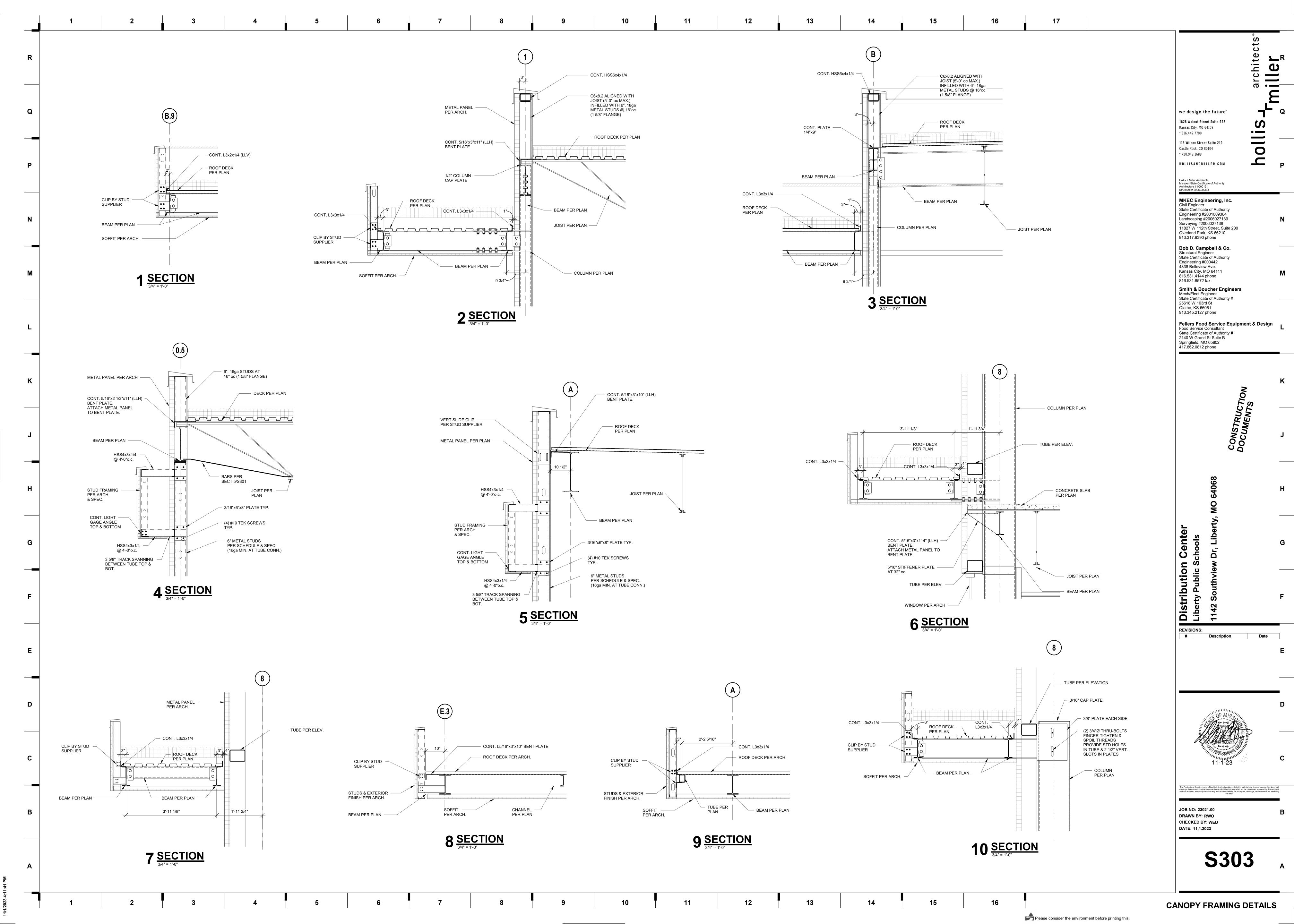
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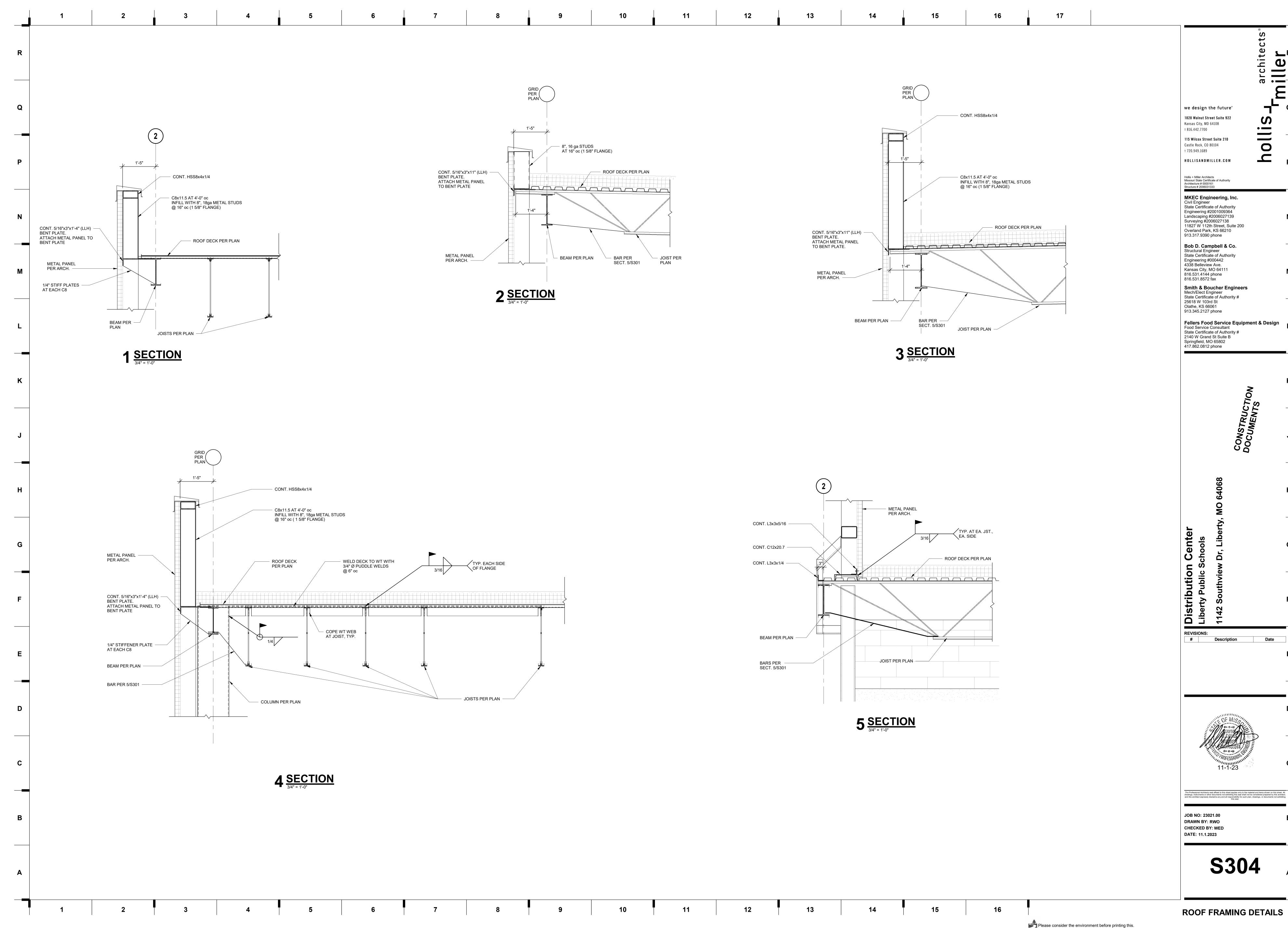
ROOF FRAMING SECTIONS

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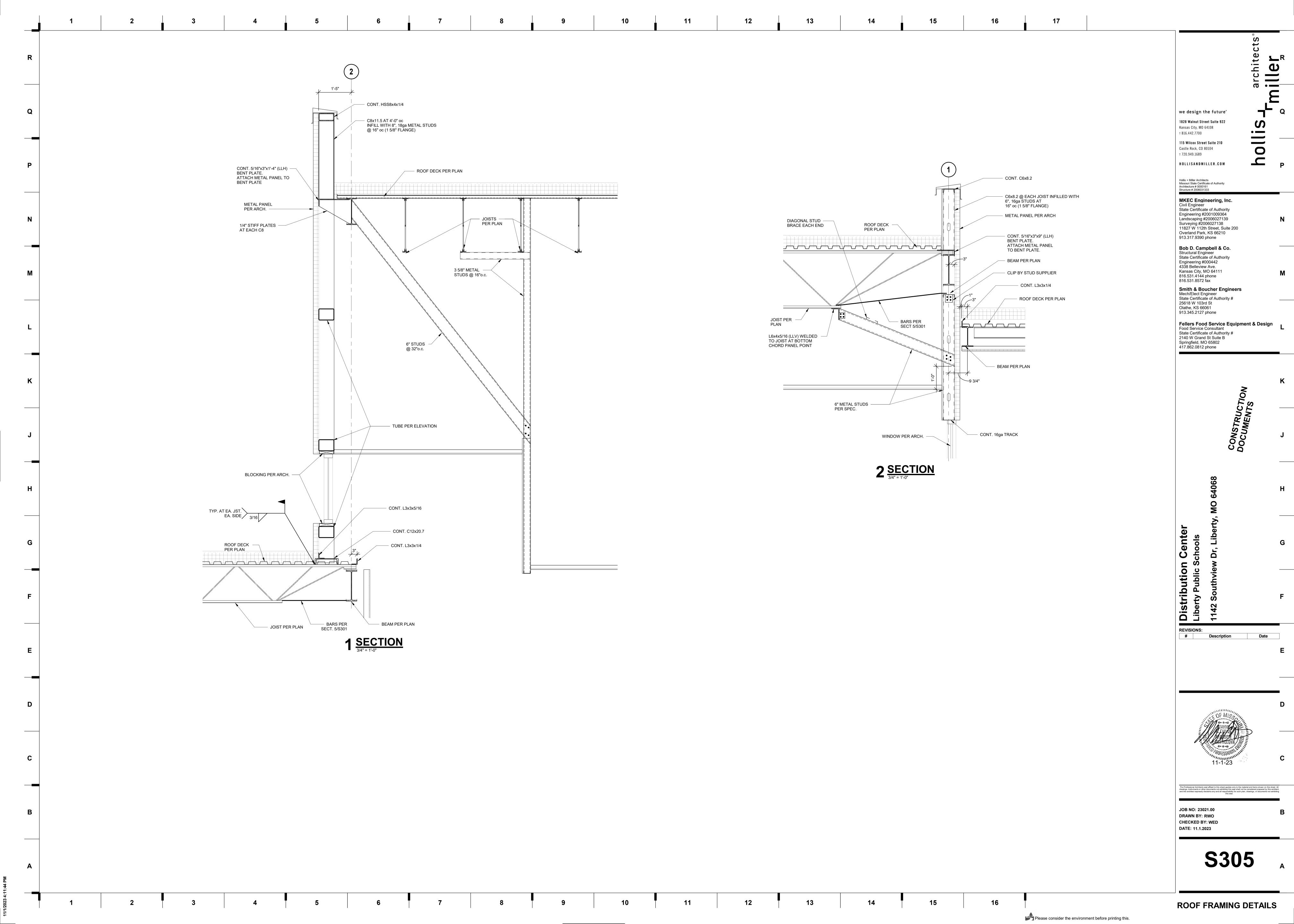
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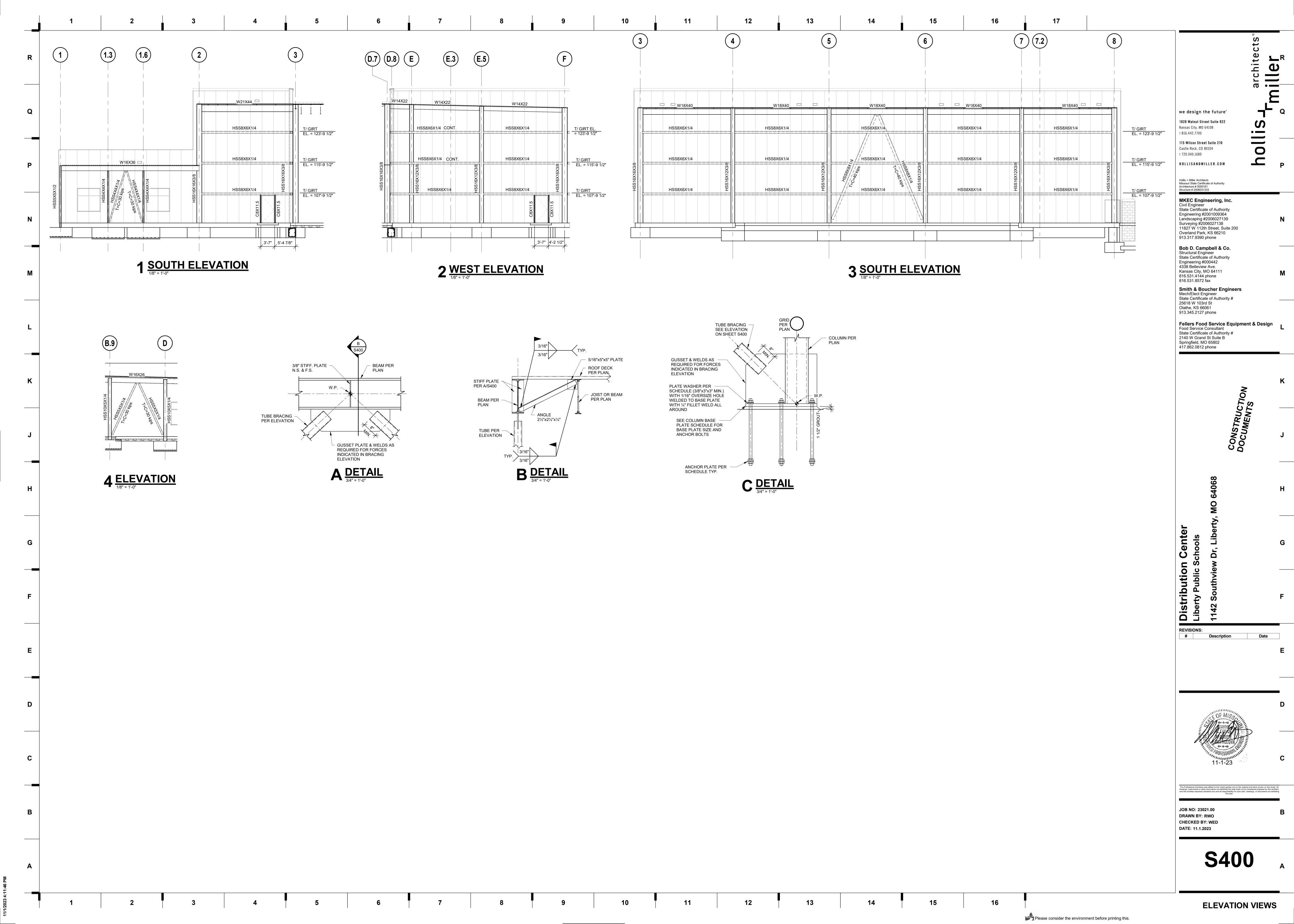


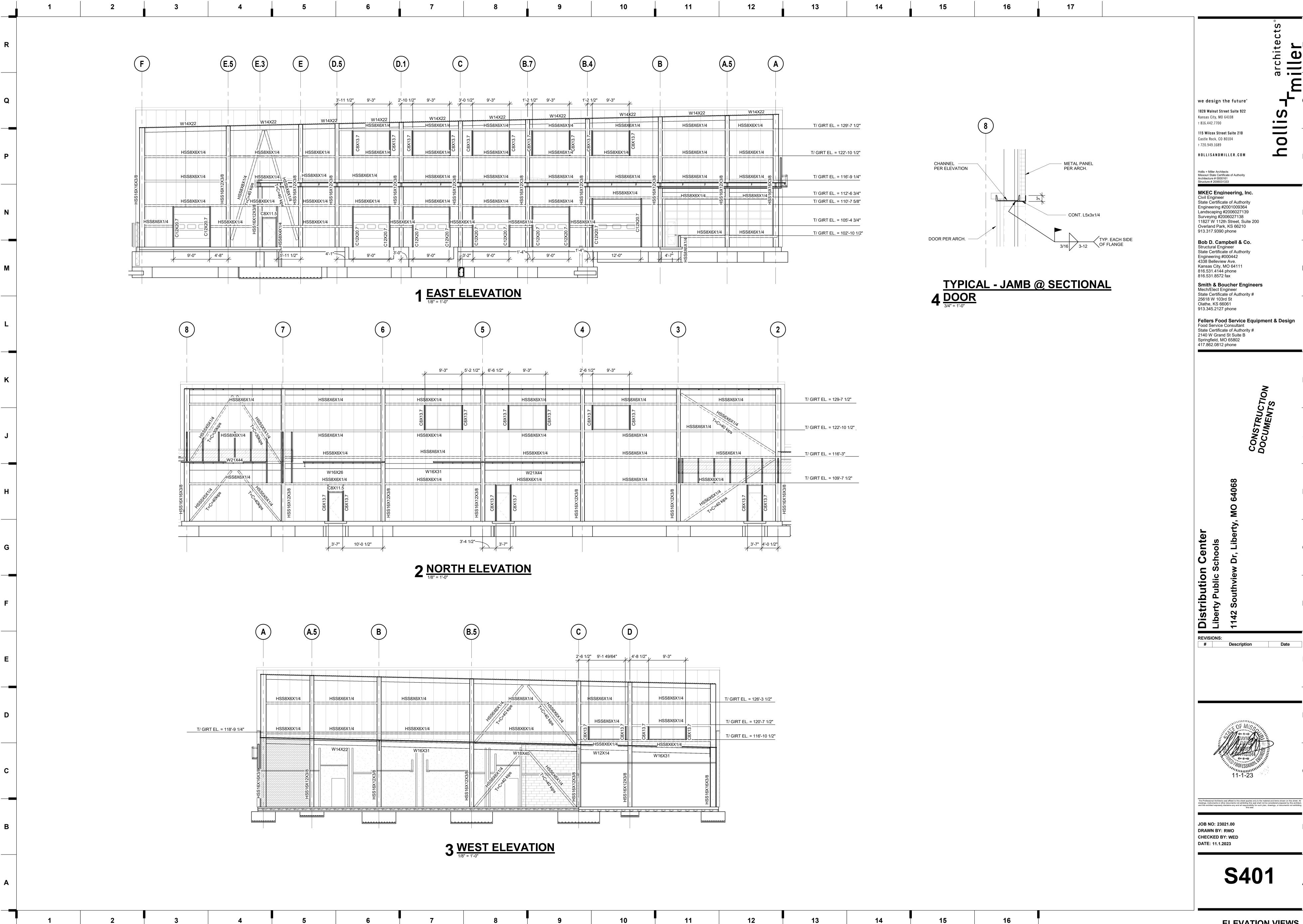




ROOF FRAMING DETAILS







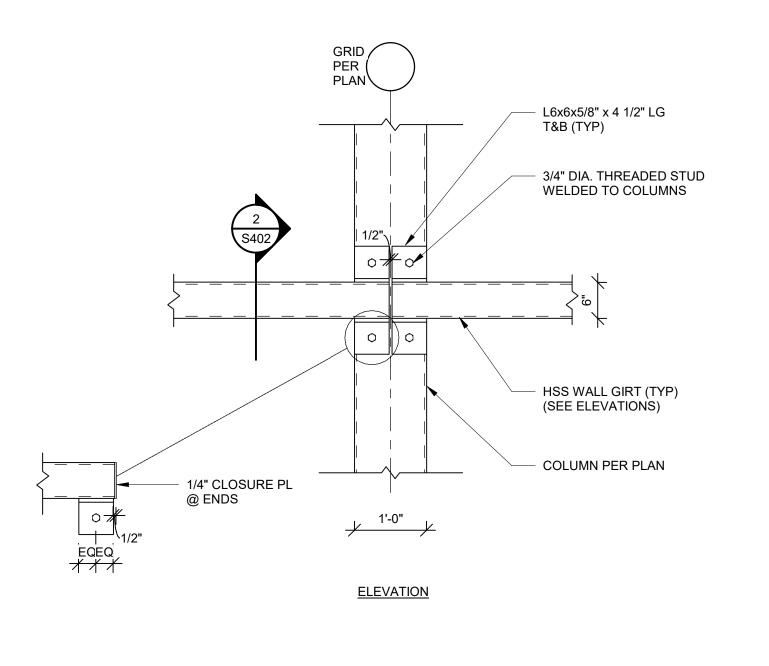
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S401

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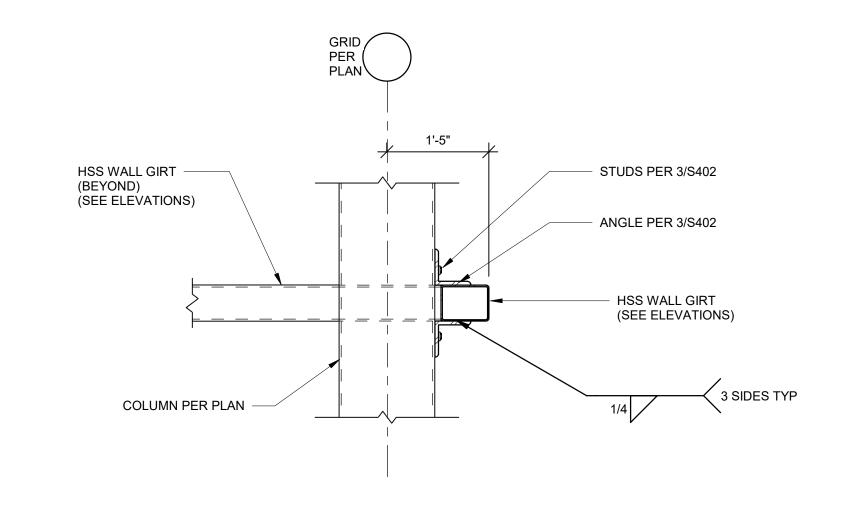
ELEVATION VIEWS

Date



Q

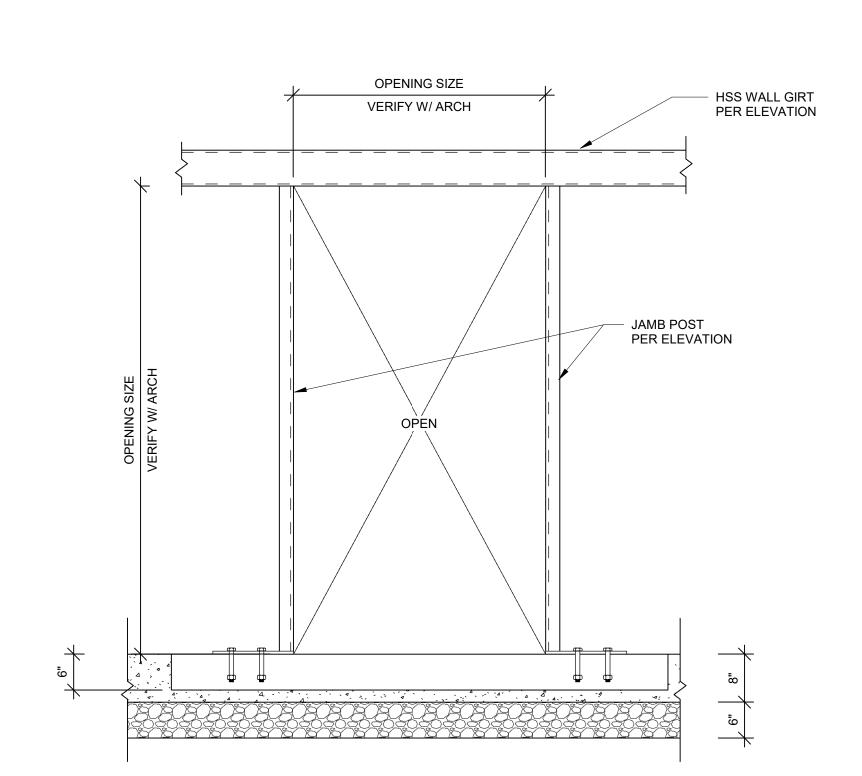
TYPICAL GIRT CONNECTION @ 1 COLUMN 3/4" = 1'-0"



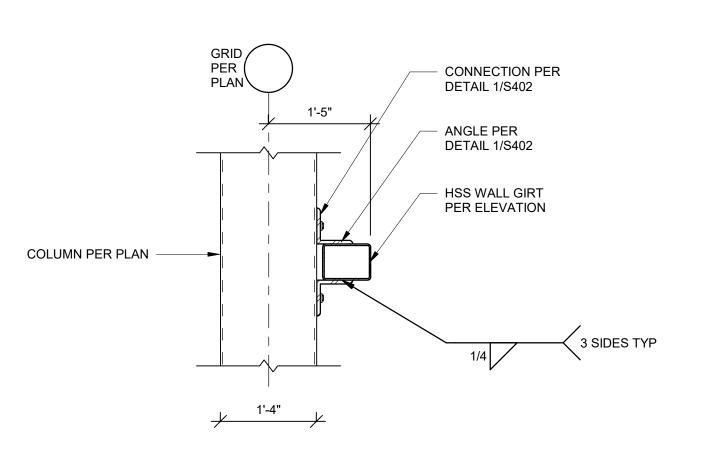
TYPICAL GIRT CONN SECTION @

4 CORNERS

3/4" = 1'-0"



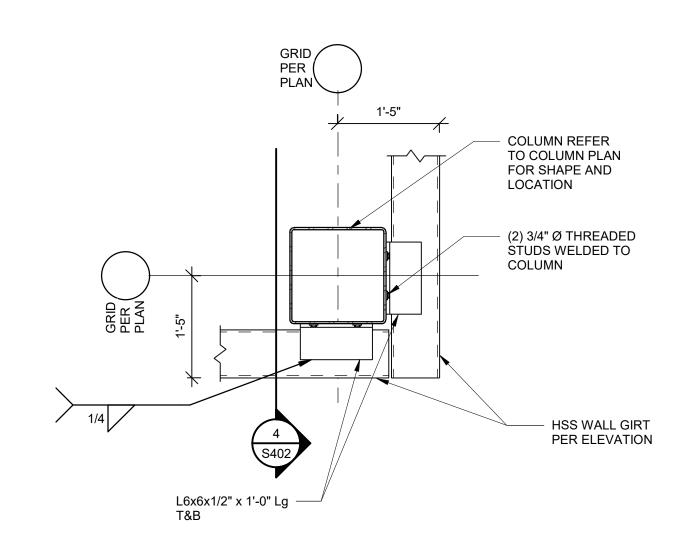
6 TYPICAL DOOR FRAME



TYPICAL SECTION @ GIRT CONN

2 @ COLUMN

3/4" = 1'-0"



14

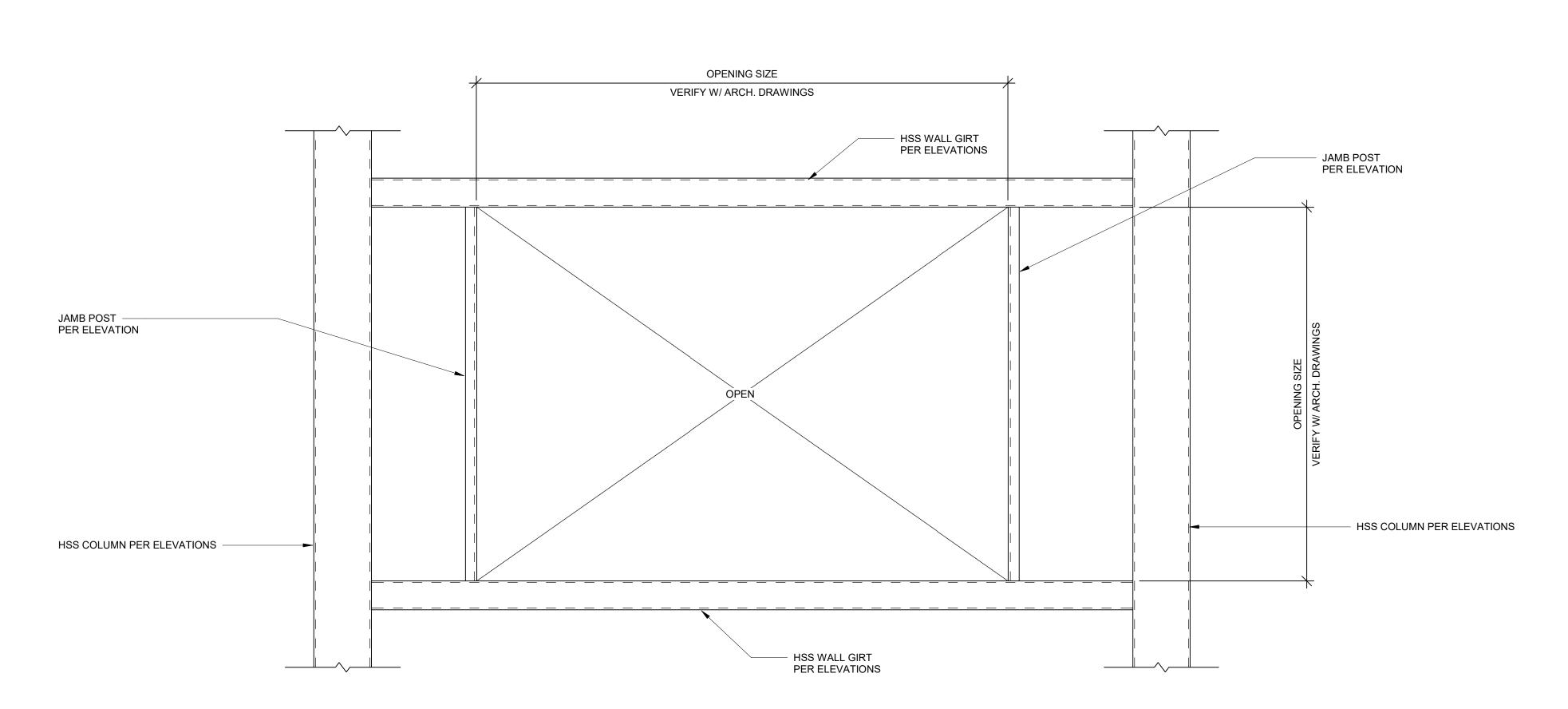
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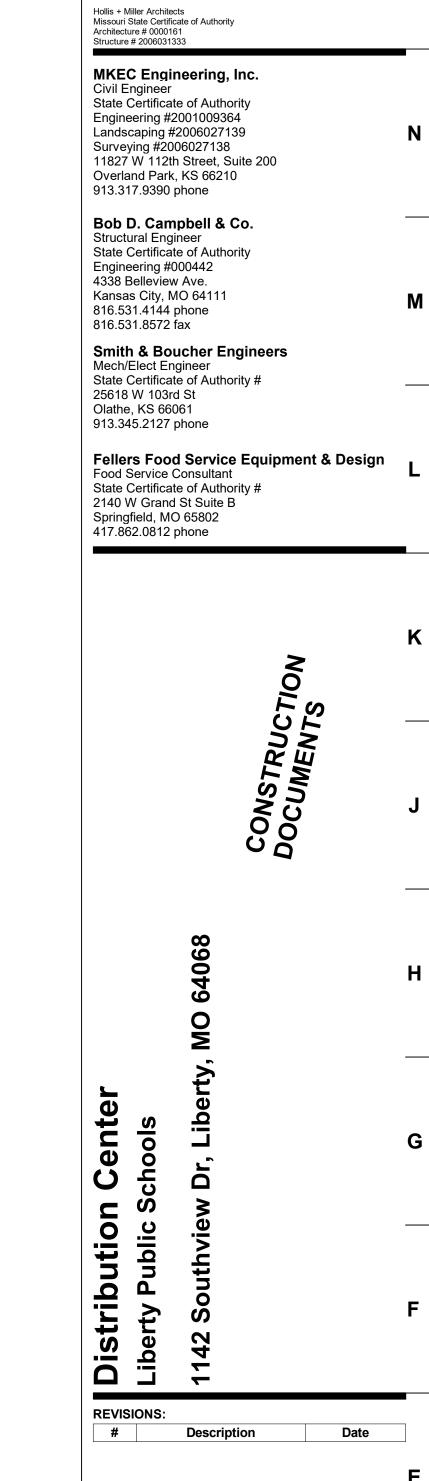
TYPICAL GIRT CORNER

CONNECTION PLAN

3/4" = 1'-0"



5 TYPICAL WINDOW FRAME



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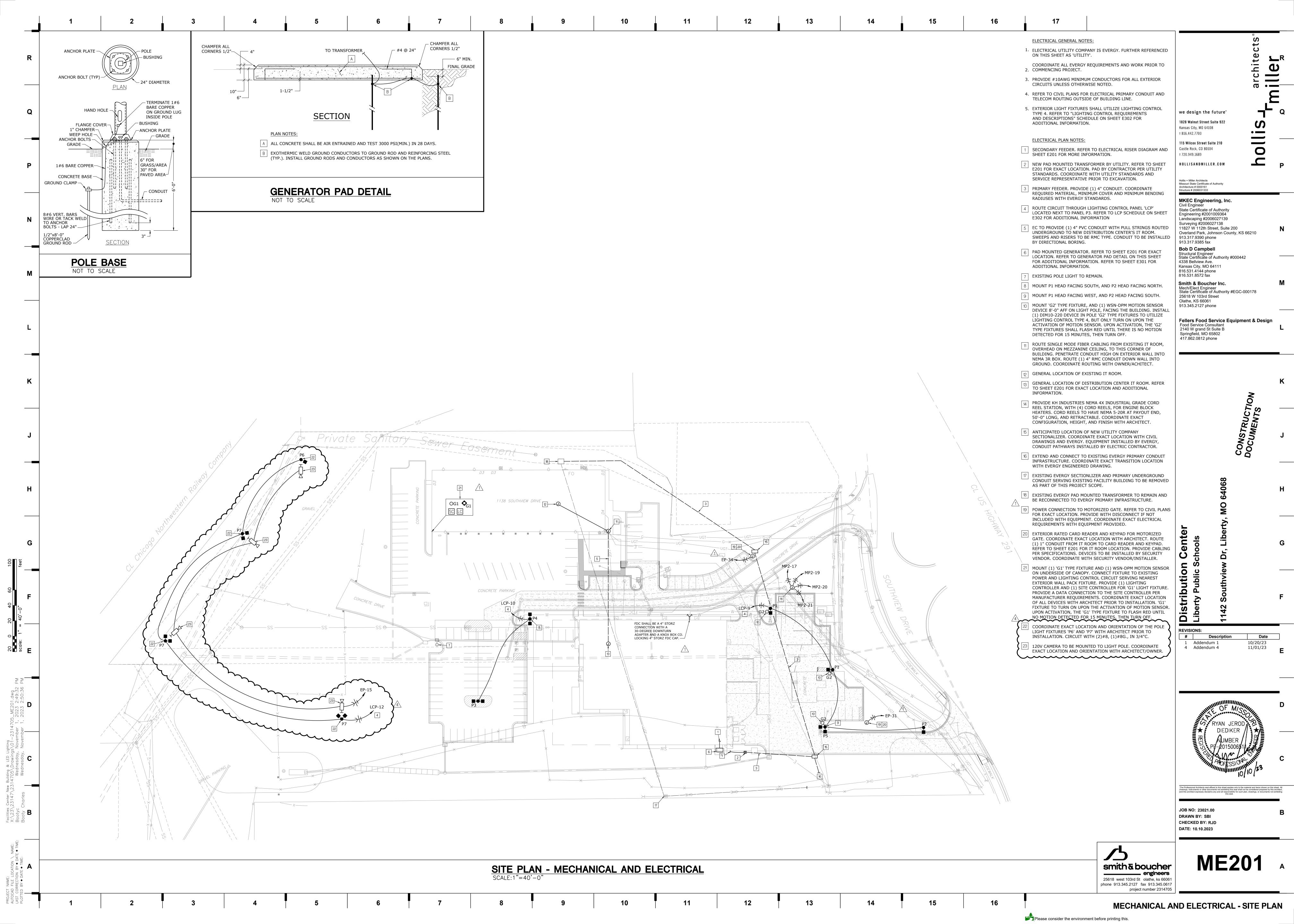
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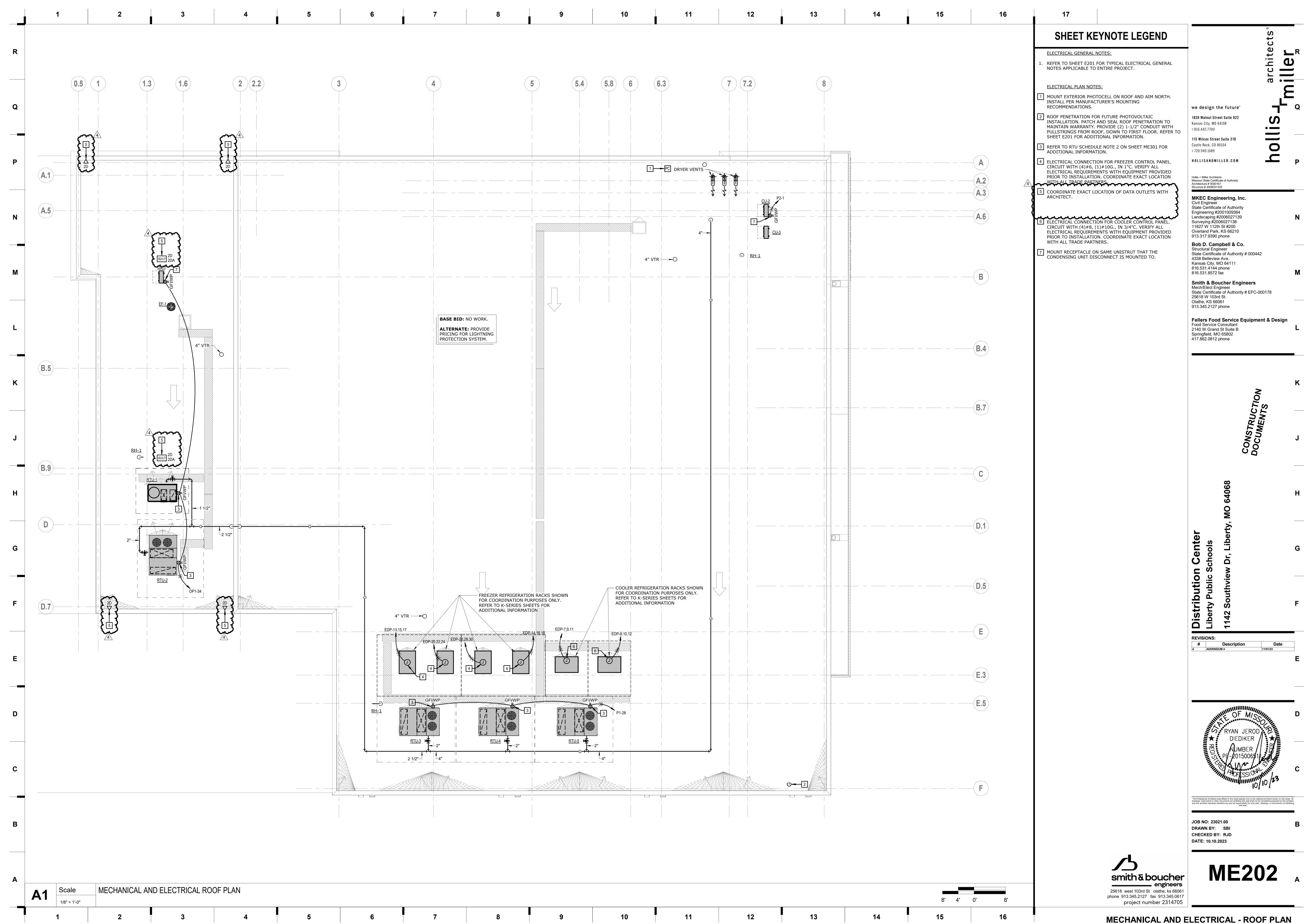
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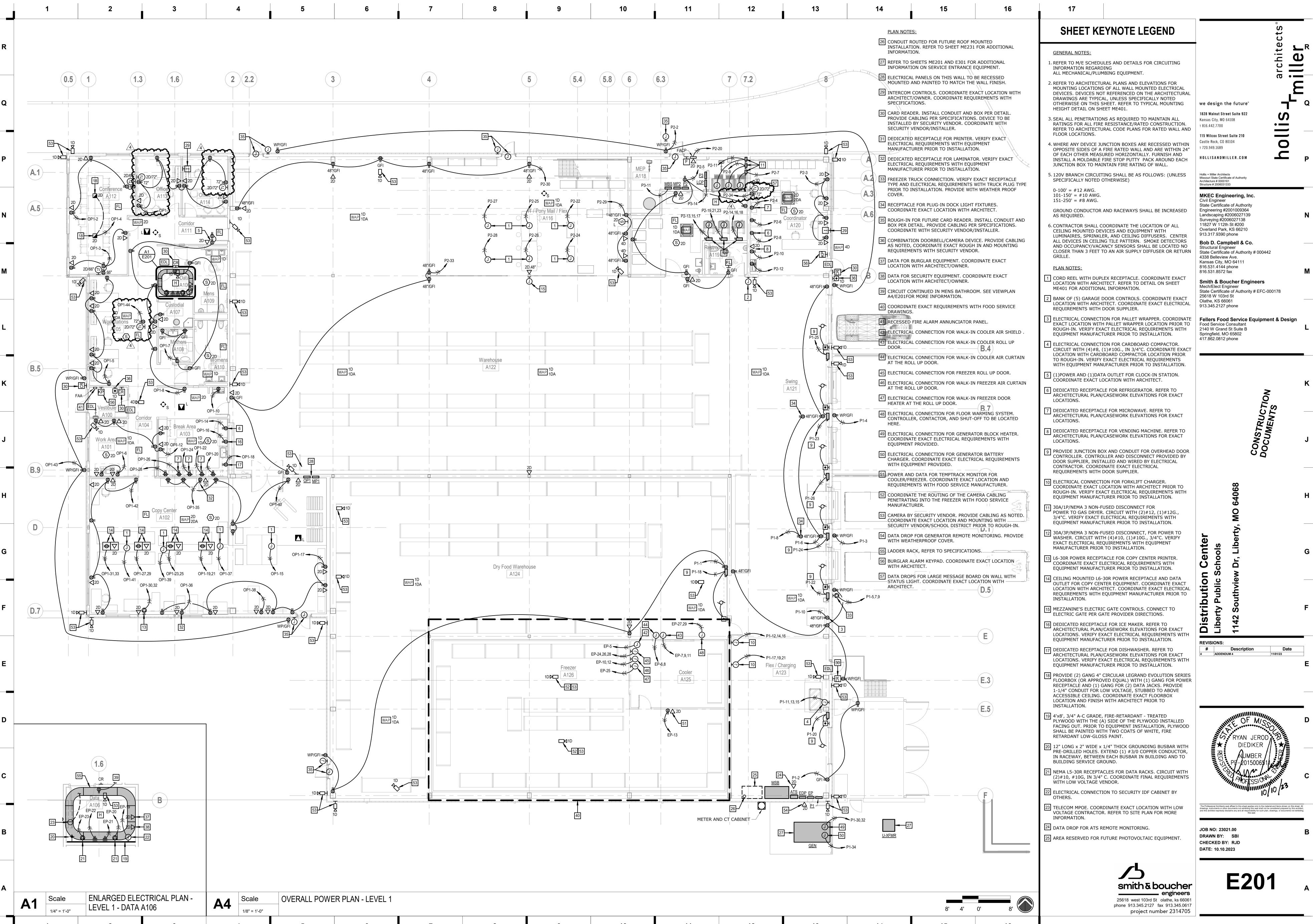
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S402

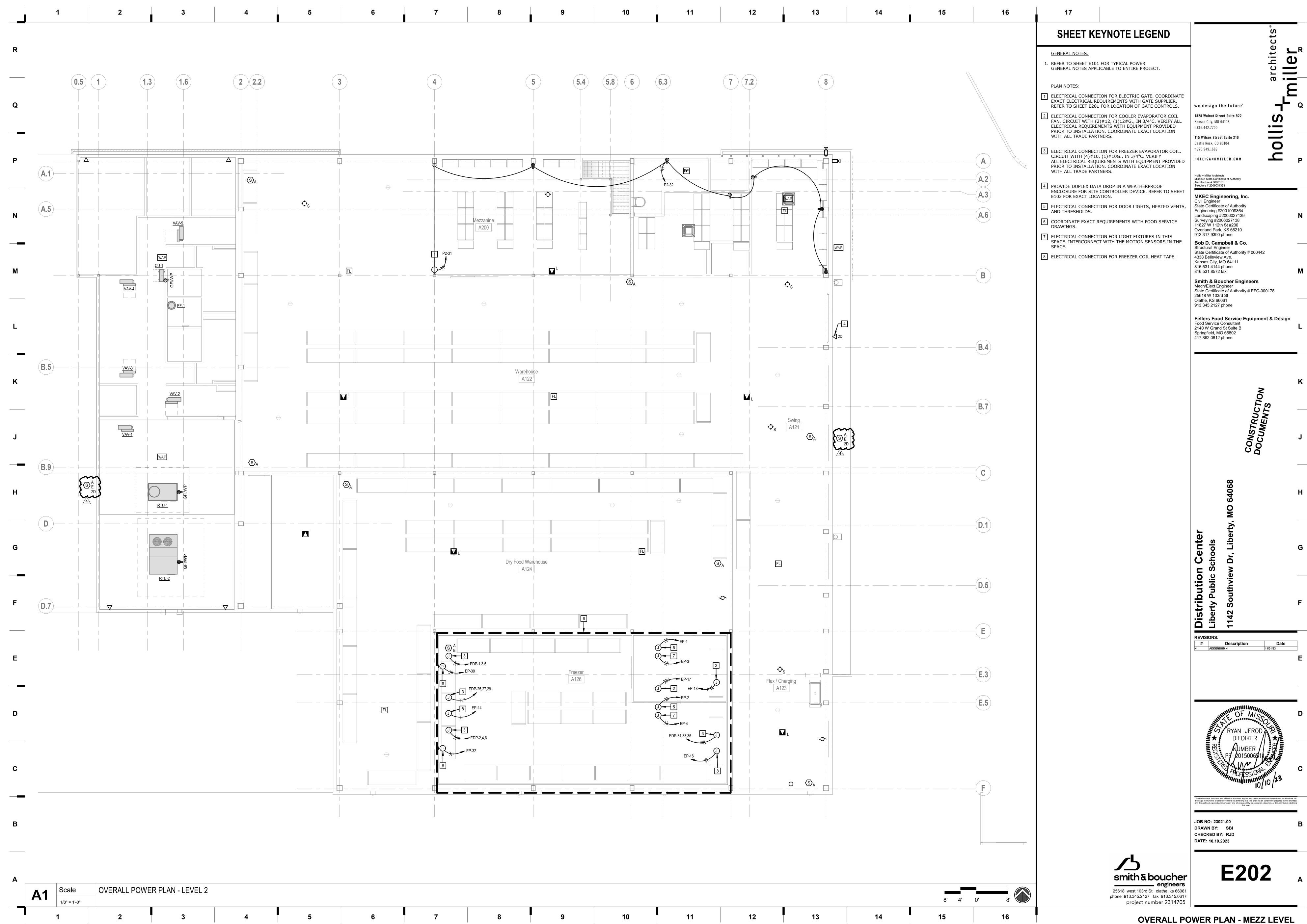
WIND GIRT CONNECTIONS







OVERALL POWER PLAN - LEVEL 1



1	1	2	3	4	5	6	7		8	9	10	
LIGHTIN	G CONTR	OL DEVICE SCHE	EDULE			-		LIGHTI	NG CONTROL F	REQUIREMENTS & D	DESCRIPTIONS - PER	SPACE TYPE
SYMBOL		DESCRIPT	ION	DETECTION TYPE	SETTINGS (TYPICAL)	MANUFACTURER/MODEL	NOTES	ТҮРЕ	LIGHTING CONTRO	L REQUIREMENTS FOR SPAC	E	
\$ _{VS}		WALL MOUNTED SWITCH/ LINE VOLTAGE - SII		DUAL TECHNOLOGY	ON: MANUAL OFF: 15 MINUTE DELAY	WATTSTOPPER LMDW-101-ENG1	1,2	1	POWER PACKS/CONT		OFF: AS REQUIRED TO ACHIEVE CONT	ROL METHOD INDICATED
\$ _{OS}		WALL MOUNTED SWITCH/O LINE VOLTAGE - SII		DUAL TECHNOLOGY	ON: AUTOMATIC OFF: 15 MINUTE DELAY	WATTSTOPPER LMDW-101-ENG1	1,2		OCCUPANCY SENSOF -TYPE AND MIN	!(S):	ANS, MODELS/SETTINGS AS NEE	
\$ _{VD}	LOW	WALL MOUNTED SWITCH/ / VOLTAGE - SINGLE RELAY		DUAL TECHNOLOGY	ON: MANUAL OFF: 15 MINUTE DELAY	WATTSTOPPER LMDW-102-ENG2	1,2	2			- MANUAL ON/OFF CONTROLS:	
\$ _{LS#}	# INDICATE	ON/OFF SWI		ION -	-	WATTSTOPPER LMSW-101-ENG1	1	2	POWER PACKS/CONT -LOCAL DEVICE		AS REQUIRED TO ACHIEVE CONT	ROL METHOD INDICATED
\$ _{LD#}	# INDICATE	WALL MOUNTED ON/OFF ES QUANTITY OF ZONES CO		ION -	-	WATTSTOPPER LMDM-101-ENG1	1,2				Y NOTED ON PLANS. MODELS/S JTES.	ETTINGS AS NEEDED TO F
\$ _M		WALL MOUNTED OVER LOW VOLTAGE - SII		-	-	WATTSTOPPER LMSW-101	1,2		-ZONE QUANTI	AND QUANTITIES SHOWN ON F TIES FOR EACH SWITCH LOCAT	TION DENOTED ON FLOOR PLANS	
\$	CEILIN	IG MOUNTED LIGHTING SYS	STEM OCCUPANCY SENSOR	DUAL TECHNOLOGY	-	WATTSTOPPER LMDC-100	1,3,4		-ZONES ARE DI	ENOTED ON EACH ASSOCIATED	CH SWITCH WHEN DIFFERENT ZO LIGHT FIXTURE WHEN MULTIPL H EITHER SEPARATE BUTTONS C	E ZONES ARE PRESENT WI
♦ _{G1}		WIRELESS OCCUPAN	NCY SENSOR	PASSIVE INFRARED	ON: AUTOMATIC OFF: 15 MINUTE DELAY	SYNAPSE WSN-DPM	1	3	CONTROL METHOD: POWER PACKS/CONT		- MANUAL OVERRIDE DIMMING	CONTROLS:
LC		WIRELESS LIGHTING	CONTROLLER	-	-	SYNAPSE DIM10-220	1		-LOCAL DEVICE OCCUPANCY SENSOR	S IN ACCESSIBLE LOCATIONS (S):	AS REQUIRED TO ACHIEVE CONT	
SC	WIRE	LESS SITE CONTROLLER WI	TH NEMA 4X ENCLOSURE	-	-	SYNAPSE CBSSW-450-002	1		-SET TIME DEL	AYS FOR SHUT-OFF AT 15 MINU	IOTED ON PLANS. MODELS/SETT JTES.	TINGS AS NEEDED TO PRO
NOTE 2: A NOTE 3: O	LL WALL MOUN CCUPANCY SEN	ITED LIGHTING CONTROLS I NSOR LOCATIONS SHOWN C	MUST HAVE MATCHING FIN ON FLOOR PLANS ARE GENE	N, ALL PRODUCT SUBSTITUTIONS SUBMI ISHES TO THOSE LISTED IN SPECIFICATI RIC, CONTRACTOR TO MODIFY LOCATION REQUIRED SO THAT NO OCCUPANCY SEN	ON SECTION 262726 - WIRING DEV NS AS REQUIRED BASED COVERAGE	ICES. CAPABILITIES OF SUBMITTED PRO			-ZONE QUANTI -ZONE DESIGN -ZONES ARE DI -ON AND OFF C	AND QUANTITIES SHOWN ON F TIES FOR EACH SWITCH LOCAT ATIONS ARE DENOTED FOR EAG ENOTED ON EACH ASSOCIATED CONTROL FOR EACH ZONE, WIT	FLOOR PLANS. TION DENOTED ON FLOOR PLANS CH DIMMER LOCATION WHEN DI LIGHT FIXTURE WHEN MULTIPL H EITHER SEPARATE BUTTONS C E, WITH EITHER SEPARATE BUTT	FFERENT ZONES ARE CON E ZONES ARE PRESENT WI R SINGLE BUTTON ROCKE
								4	POWER PACKS/CONT	ROLLERS:	PHOTOCELL/TIME CLOCK OFF - A	

LIGHTING CONTROL REQUIREMENTS FOR SPACE CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF: OWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. -TYPE AND MINIMUM QUANTITY NOTED ON PLANS, MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL ON/OFF CONTROLS OWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. -TYPE, LOCATION(S), AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. N/OFF ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. ONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL OVERRIDE DIMMING CONTROLS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. MABLE ZONE SWITCHES: -LOCATION(S) AND OUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. -RAISE AND LOWER CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT SLIDER STYLE. CONTROL METHOD: PHOTOCELL/TIME CLOCK ON - PHOTOCELL/TIME CLOCK OFF - AUTOMATIC DIMMING TO 50% (FOR POLE LIGHT FIXTURES) -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. CONTROL METHOD: TIME CLOCK ON/MANUAL ON - TIME CLOCK OFF - MANUAL ON/OFF CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. ON/OFF AND DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. REFER TO FLOOR PLANS FOR SWITCH TYPE USED IN EACH SPACE. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. -AFTER BUSINESS HOURS, LIGHTS TURN OFF. SWITCH FOR EACH ZONE ALLOWS LIGHTS TO TURN ON FOR UP TO 2 HOURS, THEN AUTOMATICALLY TURN OFF. CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF-MANUAL OVERRIDE DIMMING CONTROLS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. MMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", ETC. -ON AND OFF CONTROL FOR EACH ZONE. WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. -RAISE AND LOWER CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT SLIDER STYLE.

NOTE 3: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES. NOTE 4: PROVIDE A DIGITAL LIGHTING CONTROL SYSTEM FROM A MANUFACTURER LISTED IN SPECIFICATION SECTION 260923 - LIGHTING CONTROL DEVICES. WIRELESS SYSTEMS ARE NOT PERMITTED. NOTE 5: CONTRACTOR TO MODIFY OCCUPANCY SENSOR LOCATIONS, AND/OR INCREASE QUANTITIES, AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS. NOTE 8: 'BMS' = BUILDING MANAGEMENT SYSTEM. LIGHTING CONTROL PANEL - "LCP"

GENERAL NOTES:

NOTE 1: WHERE LIGHTS ARE TIME CLOCK CONTROLLED, REFER TO LIGHTING CONTROL PANEL SCHEDULE 'LCP' FOR ADDITIONAL INFORMATION.

NOTE 2: CONTRACTOR MUST INCLUDE SHOP DRAWINGS WITH LIGHTING CONTROLS SUBMITTAL SHOWING WIRING SCHEMATICS/DIAGRAMS OVERLAYED ON FLOOR PLANS FOR EACH ROOM.

RELAY#	RELAY AREA DESCRIPTION	LOAD	CIRCUIT	SCHEDULED ON	SCHEDULED OFF	NOTES
1	WEST EXTERIOR BLDG MNTD	270	P3-3	PHOTOCELL	PHOTOCELL	-
2	EAST EXTERIOR BLDG MNTD	210	P3-4	PHOTOCELL	PHOTOCELL	-
3	UNDER MEZZ AND HIGHBAYS	1,015	P3-5	TIMECLOCK	TIMECLOCK	1,3
4	HIGHBAYS	1,575	P3-6	TIMECLOCK	TIMECLOCK	1,3
5	HIGHBAYS	1,575	P3-7	TIMECLOCK	TIMECLOCK	1,3
6	HIGHBAYS	1,400	P3-8	TIMECLOCK	TIMECLOCK	1,3
7	HIGHBAYS	1,050	P3-9	TIMECLOCK	TIMECLOCK	1,3
8	HIGHBAYS	1050	P3-10	TIMECLOCK	TIMECLOCK	1,3
9	POLE LIGHT FIXTURES EAST	640	P3-12	PHOTOCELL	PHOTOCELL	2
10	POLE LIGHT FIXTURES WEST	530	P3-13	PHOTOCELL	PHOTOCELL	2
11	MEZZANINE CEILING FIXTURES	665	P3-2	TIMECLOCK	TIMECLOCK	1,3
12	FLOOD POLE LIGHTS WEST	560	P3-15	PHOTOCELL	PHOTOCELL	-
13				$\overline{}$		
14						
15						
16						•

BASIS OF DESIGN IS THE WATTSTOPPER LMCP SERIES. ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. ALL RELAYS TO BE RATED FOR 20A (MINIMUM) - NORMALLY CLOSED.

PHOTOCELL INPUT FOR CONTROL OF EXTERIOR LIGHTING. ELECTRICAL CONTRACTOR TO PROVIDE CABLING REQUIRED BETWEEN THE EXTERIOR PHOTOCELL AND RELAY CABINETS. MOUNT PHOTOCELL ON ROOF AND AIM

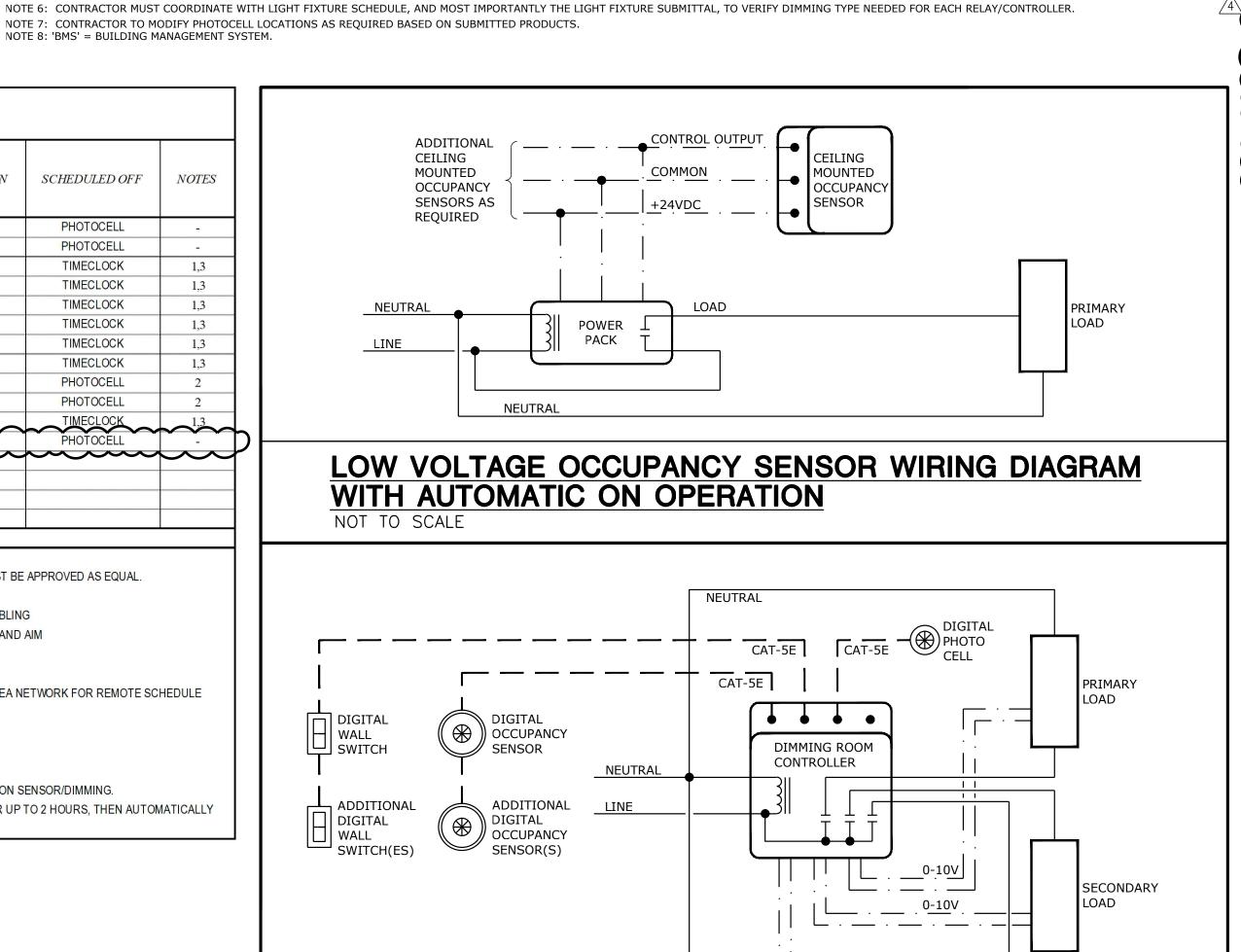
NORTH. SEVEN DAY TIME CLOCK INCLUDING SKIP-A-DAY CAPABILITY.

PROVIDE ETHERNET INTERFACE FOR REMOTE PROGRAMMING, BAS INTERFACE, AND OWNER LOCAL AREA NETWORK FOR REMOTE SCHEDULE PROGRAMMING.

. COORDINATE SCHEDULED ON/OFF TIME OF DAY WITH OWNER PRIOR TO SUBSTANTIAL COMPLETION.

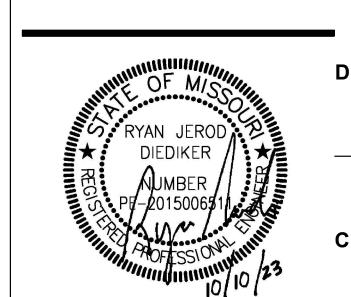
2. POLE LIGHTS DIM TO 50% AFTER NO MOTION HAS BEEN DETECTED FOR 15 MINUTES VIA INTEGRAL MOTION SENSOR/DIMMING.

B. AFTER BUSINESS HOURS, LIGHTS TURN OFF. SWITCH FOR EACH ZONE ALLOWS LIGHTS TO TURN ON FOR UP TO 2 HOURS, THEN AUTOMATICALLY TURN OFF. REFER TO SHEET E101 FOR OVERRIDE SWITCH LOCATIONS.



LIGHT FIXTURE SCHEDULE MOUNTING VOLTS MANUFACTURER DESCRIPTION SOURCE A1 2X4 LED FLAT PANEL WITH FIELD SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE. 6,000 LUMENS WILLIAMS SERIES BP 10V DIMMING. GE CURRENT LPL 3500K A1X (X) = PROVIDE WITH EMERGENCY BATTERY. 80 CRI SIGNIFY FLUX PANEL OR APPROVED EQUAL 120 SAME AS A1. A2 SAME AS A1, BUT WITH DIFFERENT LUMEN RECESSED 4,000 LUMENS **A2X** (X) = PROVIDE WITH EMERGENCY BATTERY. 3500K 80 CRI 120 LITHONIA I-BEAM IBE PENDANT B1 HIGH BAY LED, 15" WIDE BY 23" LONG, ACRYLIC LED SEMI-DIFFUSE LENS, MEDIUM DISTRIBUTION. 22,000 LUMENS HE WILLIAMS GS OR APPROVED EQUAL PROVIDE WITH AIRCRAFT CABLE, HOOK, AND 4000K ALL REQUIRED HARDWARE FOR PENDANT 80 CRI MOUNTING. **B1X** (X) = PROVIDE WITH EMERGENCY BATTERY. C1 4" WIDE, 8'-0" LONG RECESSED LINEAR RECESSED 120 COOPER DEFINE 4 PERIMETER LIGHT FIXTURE WITH FLUSH PERIMETER 2,800 LUMENS MARK SLOT 4 DIFFUSER. CONTINUOUS ROW MOUNTING, OR APPROVED EQUAL 3500K REFER TO ARCHITECTURAL PLANS FOR EXACT 80 CRI LENGTHS. COORDINATE FINISH WITH ARCHITECT. PROVIDE ALL MOUNTING HARDWARE NEEDED FOR PERIMETER RECESSED INSTALLATION. 0-10V DIMMING. 1 4" OPEN LED MODULE DOWNLIGHT WITH SEMI- RECESSED 120 LITHONIA LDN4 SPECULAR REFLECTOR, TRIM FLANGE WITH 1,000 LUMENS PORTFOLIO SERIES LD4B SAME FINISH. INTEGRAL DRIVER. MEDIUM 3500K LIGHTOLIER SERIES P4R OPTIC DISTRIBUTION. 80 CRI OR APPROVED EQUAL 120 SAME AS D1. RECESSED E1 SAME AS FIXTURE D1, BUT PROVIDE WITH DIFFERENT COLOR TEMPERATURE AND WET 1,000 LUMENS LOCATION LISTED. 4000K E1X (X) = PROVIDE WITH EMERGENCY BATTERY. 80 CRI SURFACE 120 SPECTRUM LIGHTING SJ1INC G1 10" TALL, 4" DIAMETER CYLINDRICAL LIGHT (1) LED BULB OR APPROVED EQUAL FIXTURE. PROVIDE WITH RED GLASS LENS ACCESSORY AND AN A19, E26 MEDIUM BASE LED, FLASHING LIGHT BULB. WET LOCATION LISTED. PROVIDE WATTSTOPPER FSP-211 MOTION SENSOR ONLY FOR THE FIXTURES INDICATED ON SHEET E102. (4) TOTAL 120 SPECTRUM LIGHTING WJ1INC SAME AS G1, BUT WALL MOUNT VERSION AND (1) LED BULB OR APPROVED EQUAL PROVIDE WITH WATTSTOPPER FSP-211 MOTION SENSOR. 120 LITHONIA: D SERIES SIZE 1 SINGLE HEAD DIE CAST ALUMINUM SITE CONCRETE LED LUMINAIRE WITH TYPE IV FORWARD THROW 14,500 LUMENS OR APPROVED EQUAL DISTRIBUTION, RECTANGULAR ARM, 1050mA MAXIMUM ELECTRONIC DRIVER. INTEGRAL 80 CRI MOTION SENSOR DIMS FIXTURE TO 50% OUTPUT AFTER NO MOTION HAS BEEN DETECTED FOR 15 MINUTES, AND RAMPS UP TO 100% UPON MOTION DETECTION. 30' SQUARE STRAIGHT STEEL POLE WITH BASE P2 SAME AS FIXTURE P1, BUT PROVIDE WITH CONCRETE 120 SAME AS P1 LED TYPE II DISTRIBUTION AND DIFFERENT LUMEN BASE 12,600 LUMENS 4000K 80 CRI 120 SAME AS P1 P3 SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE. CONCRETE LED POSITIONED 180 DEGREES APART. 14,500 LUMENS/HEAD BASE 80 CRI P4 SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE 120 SAME AS P1 CONCRETE LED 14,500 LUMENS (P1) /ITH (1) P1 HEAD AND (1) P2 HEAD POSITIONED 180 DEGREES APART. REFER TO SITE PLAN 12,600 LUMENS (P2) FOR DIRECTION OF THE HEADS. 4000K 80 CRI 120 SAME AS P1 SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE CONCRETE WITH (1) P1 HEAD AND (1) P2 HEAD POSITIONED 14,500 LUMENS (P1) POSITIONED 90 DEGREES APART. REFER TO 12,600 LUMENS (P2) SITE PLAN FOR DIRECTION OF THE HEADS. P6 RECTANGULAR FLOOD LIGHT FIXTURE, 120 COOPER LUMARK AP LSF LED ADJUSTABLE OPTICS, AND SELECTABLE SELECTABLE FLOOR SERIES 12,338 LUMENS COLOR TEMPERATURE AND LUMEN OUTPUT. SPITZER LIGHTING FLS 4000K SET WITH 12,338 LUMEN OUTPUT AND 4000K 80 CRI SERIES COLOR TEMPERATURE UPON INSTALLATION. 2 OR APPROVED EQUAL SQUARE STRAIGHT STEEL POLE WITH BASE SAME AS P6, BUT PROVIDE WITH (2) P6 CONCRETE 120 SAME AS P6 FIXTURE HEADS INSTALLED ON SAME POLE, BASE 12,338 LUMENS/HEAD AIMED 90 DEGREES APART FROM EACH 4000K GENERAL DISTRIBUTION. PROVIDE WITH SURFACE 5,000 LUMENS COLUMBIA MPS MOUNTING HARDWARE REQUIRED FOR OR APPROVED EQUAL PENDANT AND SURFACE MOUNT 80 CRI APPLICATIONS. S1X (X) = PROVIDE WITH EMERGENCY BATTERY. 120 LITHONIA WST **W** EXTERIOR WALL PACK, FORWARD THROW. OR APPROVED EQUAL ARCHITECT TO SELECT FINISH. 1,500 LUMENS WX (X) = PROVIDE WITH INTEGRAL EMEGENCY 4000K 80 CRI K1 LED EXIT SIGN, SINGLE OR DOUBLE FACE AS 120 LITHONIA LRP UNIVERSAL LED REQUIRED AND/OR SHOWN ON DRAWINGS. OR APPROVED EQUAL UNIVERSAL MOUNT. RECESSED MOUNTED, EDGE-LIT, RED LETTERING ON MIRROR. SEALED NI-CAD BATTERY, MINIMUM 90 MINUTE CAPACITY. DRAWINGS INDICATE ARROWS. X2 LED EXIT SIGN, SINGLE OR DOUBLE FACE AS

we design the future° 1828 Walnut Street Suite 922 Kansas City, MO 64108 т 816.442.7700 115 Wilcox Street Suite 210 Castle Rock, CO 80104 т 720.949.1689 HOLLISANDMILLER.COM Hollis + Miller Architects Missouri State Certificate of Authority Architecture # 0000161 MKEC Engineering, Inc. State Certificate of Authority Engineering #2001009364 Landscaping #2006027139 Surveying #2006027138 11827 W 112th Street, Suite 200 Overland Park, Johnson County, KS 66210 913.317.9390 phone 913.317.9385 fax **Bob D Campbell** Structural Engineer
State Certificate of Authority #000442 4338 Bellview Ave. Kansas City, MO 64111 816.531.4144 phone 816.531.8572 fax Smith & Boucher Inc. Mech/Elect Engineer State Certificate of Authority #EGC-000178 25618 W 103rd Street Olathe, KS 66061 913.345.2127 phone Fellers Food Service Equipment & Design Food Service Consultant 2140 W grand St Suite B 417.862.0812 phone eu 120 DUAL LITE SERIES SE UNIVERSAL trib rty P CHLORIDE SERIES CAD REQUIRED AND/OR SHOWN ON DRAWINGS. UNIVERSAL MOUNT. CAST ALUMINUM HOUSING LITHONIA SERIES LE RED LETTERING. SEALED NI-CAD BATTERY, WILLIAMS SERIES EXIT/CA MINIMUM 90 MINUTE CAPACITY. DRAWINGS OR APPROVED EQUAL INDICATE ARROWS. FURNISH WITH PENDANT MOUNT KIT FOR INSTALLATIONS IN OPEN CEILING AREAS AWAY FROM WALLS. **REVISIONS:** Date # Description



11/01/23

JOB NO: 23021.00 **DRAWN BY: SBI CHECKED BY: RJD**

DATE: 10.10.2023

4 Addendum 4

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ELECTRICAL SCHEDULES AND DETAIL

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TERTIARY

DIGITAL ROOM CONTROLLER WIRING DIAGRAM

NEUTRAL

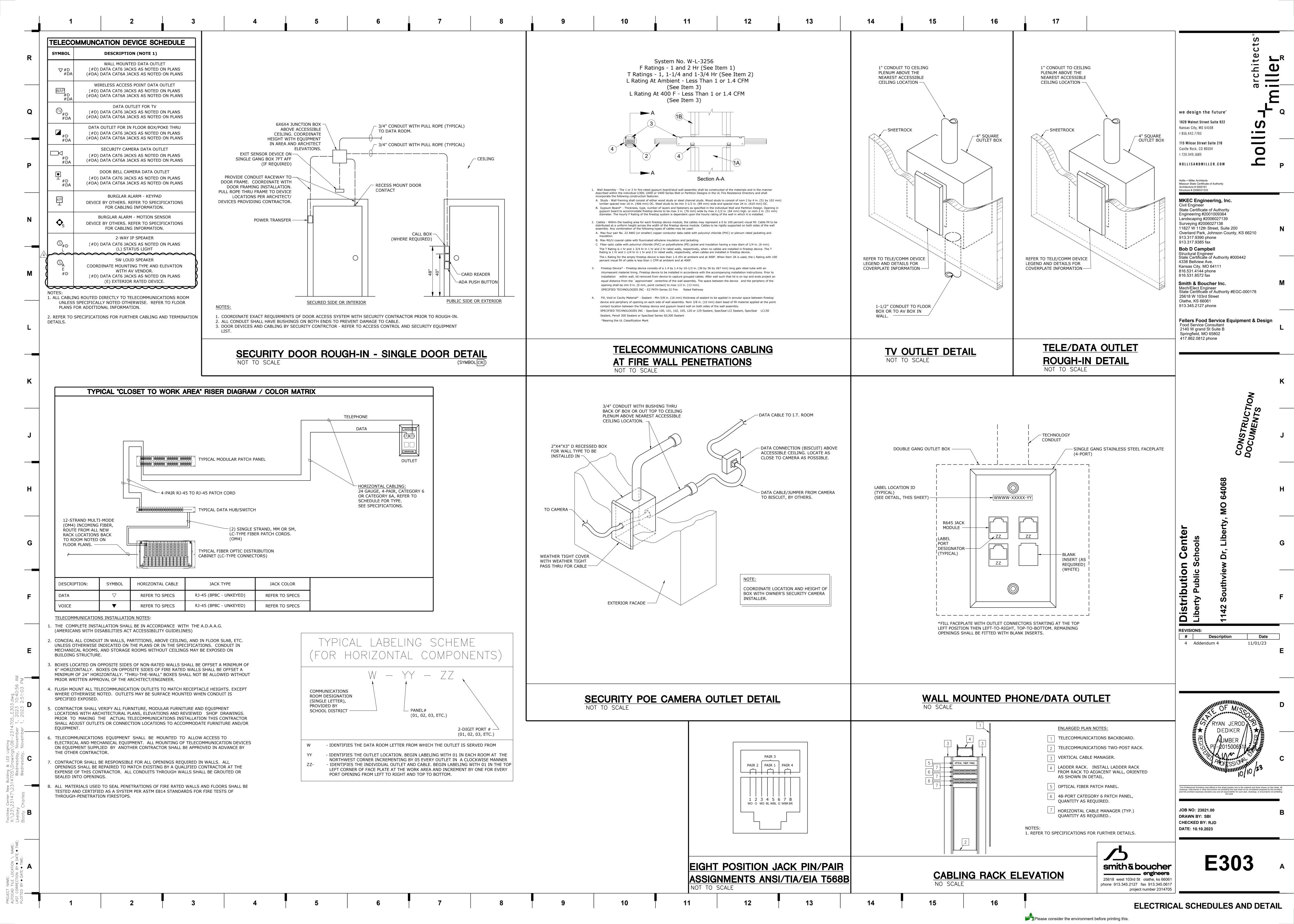
NEUTRAL

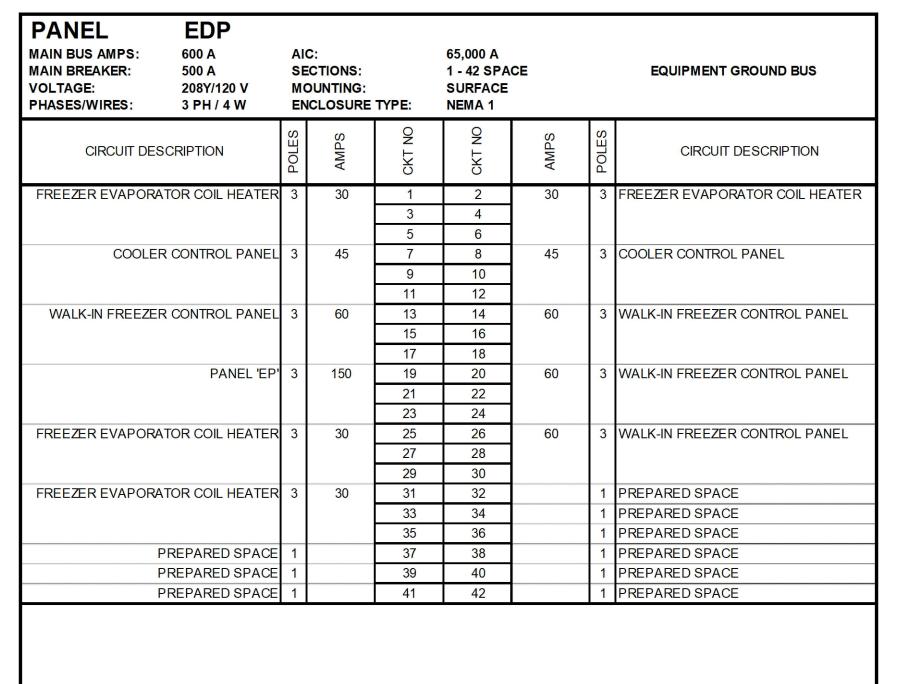
SCHEMATIC REPRESENTATIVE OF THREE RELAY UNIT. ONE AND TWO RELAY UNITS SIMILAR, LESS

SCHEMATIC REPRESENTATIVE OF DAYLIGHT HARVESTING. NON DAYLIGHT ZONES SIMILAR

LESS DAYLIGHT PHOTO CELL.

ADDITIONAL RELAY(S) AND ASSOCIATED LOAD(S).





PANEL MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:	EP 150 A N/A 208Y/120 V 3 PH / 4 W	M	C: ECTIONS: DUNTING: ICLOSURE	TYPE:	65,000 A 1 - 42 SPA SURFACE NEMA 1	CE		MAIN LUGS ONLY EQUIPMENT GROUND BUS
CIRCUIT DE	SCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
FREEZER - DOOR L	TG, HEATED VENTS	1	20	1	2	20	1	COOLER - DOOR LTG, HEATED VENTS
	FREEZER - LIGHTS	1	20	3	4	20	1	COOLER - LIGHTS
CC	OOLER - AIR SHIELD	1	20	5	6	20	2	COOLER AIR CURTAIN
COOLE	R - ROLL UP DOOR	3	20	7	8			
				9	10	20	2	FREEZER AIR CURTAIN
				11	12			
	APTRACK MONITOR	1	~20~	13	14	20		FREEZER COIL HEAT TAPE
	MERAS - WEST LOT	1	20	15	16	20		FREEZER COIL HEAT TAPE
COOLER EVAL	ORATOR COIL FAN		20	17	18	20		COOLER EVAPORATOR COIL FAN
	IT EQUIPMENT		20	19	20	20		IT EQUIPMENT
	IT EQUIPMENT		20	21	22	20		IT EQUIPMENT
	IT EQUIPMENT		20	23	24	20	3	FREEZER - ROLL UP DOOR
	ER - DOOR HEATER		20 . 25	25 27	26 28			
FLOOR	WARMING SYSTEM	2	A 25	29	30	<u>,</u> 20	1	FREEZER COIL HEAT TAPE
	SOUTH GATE	1 (20	31	32	20 4 20 _		FREEZER COIL HEAT TAPE
	SPARE	1	20	33	34	20		NORTH GATE
	SPARE	1	20	35	36			SPARE
	SPARE	1	20	37	38	20		SPARE
	PREPARED SPACE			39	40	20		PREPARED SPACE
	PREPARED SPACE PREPARED SPACE			39 41	40 42			PREPARED SPACE PREPARED SPACE

IAIN BUS AMPS: IAIN BREAKER: OLTAGE: PHASES/WIRES:	IN BREAKER: N/A LTAGE: 208Y/120 V			TYPE:	65,000 A 1 - 30 SPACE SURFACE NEMA 1			MAIN LUGS ONLY EQUIPMENT GROUND BUS			
CIRCUIT DE	CIRCUIT DESCRIPTION		AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION			
	DWH-1	1	20	1	2	15	1	SF-4,5,6			
	UH-3	2	20 LCK	3	4	20 LCK	3	UH-2			
				5	6						
	CU-2	2	25	7	8						
	PANEL 'P2'			9	10	25	2	CU-3			
				11	12						
				13	14	100	3	PANEL 'P3'			
				15	16						
REC - TRU	CK BLOCK HEATER	1	20	17	18						
REC - TRU	CK BLOCK HEATER	1	20	19	20	20	1	REC - TRUCK BLOCK HEATER			
REC - TRU	CK BLOCK HEATER	1	20	21	22		1	PREPARED SPACE			
	PREPARED SPACE	1		23	24		1	PREPARED SPACE			
	PREPARED SPACE	1		25	26		1	PREPARED SPACE			
	PREPARED SPACE	1		27	28		1	PREPARED SPACE			
	PREPARED SPACE	1		29	30		1	PREPARED SPACE			

PANEL MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:	P3 100 A N/A 208Y/120 V 3 PH / 4 W	M	C: ECTIONS: OUNTING: ICLOSURE	TYPE:	18,000 A 1 - 30 SPA SURFACE NEMA 1			MAIN LUGS ONLY EQUIPMENT GROUND BUS
CIRCUIT	DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
LTG - COORD.	OFFICE, RR, LAUNDRY	1	20	1	2	20	1	LTG - MEZZANINE
LTG - WEST	EXTERIOR BLDG MNTD	1	20	3	4	20	1	LTG - EAST EXTERIOR BLDG MNTD
LTG - UNDE	R MEZZ AND HIGHBAY	1	20	5	6	20	1	LTG - HIGHBAYS
	LTG - HIGHBAYS	1	20	7	8	20	1	LTG - HIGHBAYS
	LTG - HIGHBAYS	1	20	9	10	20	1	LTG - HIGHBAYS
BUILDING MANAG	EMENT SYSTEM - BMS	1	20	11	12	20	1	LTG - POLE LIGHT FIXTURES EAST
LTG-POLE	LIGHT FIXTURES WEST	1	20	13	14	20	1	LIGHTING CONTROL PANEL - LCP
LTG - FLOO	D POLE LIGHTS WEST	1	20	15	16	20	1	SPARE
\sim	~~~ SPARE	1	20	17	18	~2°~	1	SPARE
	SPARE	1	20	19	20	20	1	SPARE
	PREPARED SPACE	1		21	22	20	1	SPARE
	PREPARED SPACE	1		23	24		^	PREPAREDSPACE
	PREPARED SPACE	1		25	26		1	PREPARED SPACE
	PREPARED SPACE	1		27	28		1	PREPARED SPACE
	PREPARED SPACE	1		29	30		1	PREPARED SPACE

12

13

14

10

11

PANEL MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:	OP1 125 A N/A 208Y/120 V 3 PH / 4 W	MC	C: CTIONS: DUNTING: ICLOSURE	TYPE:	65,000 A 1 - 54 SPA RECESSED NEMA 1			MAIN LUGS ONLY EQUIPMENT GROUND BUS
CIRCUIT DES	SCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
	REC - OFFICES	1	20	1	2	20	1	REC - CONFERENCE ROOM
REC - CO	NFERENCE ROOM	1	20	3	4	20	1	REC - CONFERENCE ROOM FBs
REC	- WORKSTATIONS	1	20	5	6	20	1	REC - WORK AREA SOUTH
REC - MC	THERS, RR, DATA	1	20	7	8	20	1	REC - HALLS, CLOCK IN, JAN.
LT	G - COPY CENTER	1	20	9	10	20GFI	1	REC - ELECTRIC WATER COOLER
LTG - OFFICES	, RR, DATA, CONF	1	20	11	12	20	1	REC - WORK AREA AND BREAKROO
LTG - CORRIDO	R AND VESTIBULE	1	20	13	14	20GFI	1	REC - REFRIGERATOR
	REC - CORD REEL	1	20	15	16	20GFI	1	REC - ICE MAKER
RE	C - COPY CENTER	1	20	17	18	20GFI	1	REC - DISHWASHER
REC - 0	COPY EQUIPMENT	2	30	19	20	20GFI	1	REC - COUNTER RECEPTACLE
				21	22	20	1	REC - MICROWAVE
REC - 0	COPY EQUIPMENT	2	30	23	24	20	1	REC - MICROWAVE
				25	26	20	1	REC - MICROWAVE
REC - 0	COPY EQUIPMENT	2	30	27	28	20	1	REC - COUNTER RECEPTACLE
				29	30	30	2	REC - COPY EQUIPMENT
REC - (COPY EQUIPMENT	2	30	31	32	1		
				33	34	20	1	REC - ROOF TOP
	REC - LAMINATOR	1	20	35	36	20	1	REC - LAMINATOR
	REC - CORD REEL	1	20	37	38	20	1	REC - PRINTER
	REC - CORD REEL	1	20	39	40	20	1	REC - COPY CENTER
	REC - CORD REEL	1	20	41	42	20	1	REC - COPY CENTER
REC - EXTERIO	OR RECEPTACLES	1	20	43	44	20		TV
	SPARE	1	20	45	46	20		SPARE
	SPARE	1	20	47	48	20	1	SPARE
	SPARE	1	20	49	50	20		SPARE
	SPARE		20	51	52	20	1	SPARE
	SPARE	1	20	53	54	20	1	SPARE

MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:	400 A N/A 208Y/120 V 3 PH / 4 W	MC	C: :CTIONS: DUNTING: ICLOSURE	TYPE:	65,000 A 1 - 42 SPA RECESSEI NEMA 1			MAIN LUGS ONLY EQUIPMENT GROUND BUS
CIRCUIT DE	SCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
	DWH-2	2	40	1	2	20	2	CU-1
				3	4			
	VAV1-3	2	30	5	6	20	2	UH-1
				7	8			
	VAV1-1	2	20	9	10	40	2	VAV1-4
				11	12			
	VAV1-2	2	25	13	14	30	2	VAV1-5
				15	16			
	RTU-1	3	60	17 19	18 20	125	3	RTU-2
				21	20	-		
	SF-7,8,9	1	15	23	24	15	1	SF-1,2,3
	EF-1		20	25	26	15		SF-10,11,12
F	PREPARED SPACE			27	28			PREPARED SPACE
	PREPARED SPACE			29	30			PREPARED SPACE
	PREPARED SPACE			31	32			PREPARED SPACE
F	PREPARED SPACE	1		33	34		1	PREPARED SPACE
F	PREPARED SPACE	1		35	36		1	PREPARED SPACE
F	PREPARED SPACE	1		37	38		1	PREPARED SPACE
F	PREPARED SPACE	1		39	40		1	PREPARED SPACE
F	PREPARED SPACE	1		41	42		1	PREPARED SPACE

PANEL MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:	IAIN BUS AMPS: 2,000 A IAIN BREAKER: 2,000 A GFI OLTAGE: 208Y/120 V		C: CTIONS: DUNTING: ICLOSURE	TYPE:	65,000 A 1 - 10 SPACE SURFACE PE: NEMA 1			EQUIPMENT GROUND BUS SERVICE ENTRANCE		
CIRCUIT DES	SCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION		
	RTU-3	3	125	1	2	100	3	RTU-4		
	PANEL 'P1'	3	225	3	4	700	3	PANEL 'EDP'		
	PANEL 'MP1'	3	400	5	6	400	3	PANEL 'MP2'		
	PANEL 'OP1'	3	125	7	8		3	PREPARED SPACE		
P	REPARED SPACE	3		9	10		3	PREPARED SPACE		

16

17

PANEL MAIN BUS AMPS: MAIN BREAKER: VOLTAGE: PHASES/WIRES:	P1 225 A N/A 208Y/120 V 3 PH / 4 W	MC	C: :CTIONS: DUNTING: ICLOSURE	TYPE:	65,000 A 1 - 42 SPA SURFACE NEMA 1			MAIN LUGS ONLY EQUIPMENT GROUND BUS
CIRCUIT DE	SCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
	REC - DRY FOOD	1	20	1	2	20	1	REC - SOUTH RECEPTACLES
REC - B	OX TRUCK HEATER	1	20	3	4	20	1	REC - BOX TRUCK HEATER
FREEZER TF	RUCK CONNECTION	3	30	5	6	20	1	REC - WAREHOUSE
				7	8	20	1	REC - WAREHOUSE DOCK LIGHTS
				9	10	20	1	PALLET WRAPPER
CARDBO	DARD COMPACTOR	3	60	11	12	30LCK	3	FORKLIFT CHARGER
				13	14	1		
				15	16	1		
F	FORKLIFT CHARGER		30LCK	17	18	20	1	OVERHEAD DOOR
				19	20	20	1	OVERHEAD DOOR
				21	22	20	1	OVERHEAD DOOR
	OVERHEAD DOOR	1	20	23	24	20	1	OVERHEAD DOOR
	OVERHEAD DOOR	1	20	25	26	20	1	OVERHEAD DOOR
	RTU-5	3	60	27	28	20	1	REC - ROOFTOP
				29	30	30	2	GENERATOR BLOCK HEATER
				31	32]		
	SPARE	1	20	33	34	20	1	GENERATOR BATTERY CHARGER
	SPARE	1	20	35	36	20	1	SPARE
	SPARE	1	20	37	38	20	1	SPARE
	SPARE	1	20	39	40	20	1	SPARE
	SPARE	1	20	41	42	20	1	SPARE

C - ROOFTOP COMPUTERS LUNDRY, MEP GAS DRYER GAS DRYER GAS DRYER WASHER	1 1 1 1	20 20 20 20 20 20 20 20	OK LYO 1 3 5 7	ON LYO 2 4 6 8	20 20 20 20 20 20GFI	1	CIRCUIT DESCRIPTION REC - EXTERIOR REC - MICROWAVE REC - ABOVE COUNTER RECEPTACE
COMPUTERS JUNDRY, MEP GAS DRYER GAS DRYER GAS DRYER	1 1 1 1	20 20 20 20	3 5 7	4 6 8	20 20	1	REC - MICROWAVE REC - ABOVE COUNTER RECEPTACI
UNDRY, MEP GAS DRYER GAS DRYER GAS DRYER	1 1 1	20 20 20	5 7	6 8	20	1	REC - ABOVE COUNTER RECEPTACE
GAS DRYER GAS DRYER GAS DRYER	1	20 20	7	8			
GAS DRYER GAS DRYER	1	20		1112	20GFI	4	property for the control of the cont
GAS DRYER			9	40		1	REC - REFRIGERATOR
	1	20		10	20GFI		REC - VENDING MACHINE
WASHER		20	11	12	20GFI	1	REC - ELECTRIC WATER COOLER
,	3	40	13	14	40	3	WASHER
			15	16			
			17	18			
WASHER	3	40	10.70	7-3000			FACP
							CORD REEL
							CORD REEL
		20					CORD REEL
							CORD REEL
					20		REC - WAREHOUSE
ECTRIC GATE					20		REC - MEZZANINE
							TV
					20		SPARE
		20	37	38	20		SPARE
		20	39	40	20		SPARE
ARED SPACE	1		41	42		1	PREPARED SPACE
E	CORD REEL CORD REEL - PONY MAIL ECTRIC GATE VAREHOUSE SPARE SPARE SPARE	CORD REEL 1 - PONY MAIL 1 ECTRIC GATE 1 VAREHOUSE 1 SPARE 1 SPARE 1 SPARE 1	CORD REEL 1 20 CORD REEL 1 20 - PONY MAIL 1 20 ECTRIC GATE 1 20 VAREHOUSE 1 20 SPARE 1 20 SPARE 1 20 SPARE 1 20 SPARE 1 20	WASHER 3 40 19 21 23 23 25 25 26 27 27 29 29 29 26 27 29 29 27 20 31 20 31 20 32 35 29 29 29 29 29 29 29 29 29 29 29 29 29	WASHER 3 40 19 20 21 22 23 24 24 25 26 26 27 28 27 28 29 30 27 28 29 30 20 27 28 20 29 30 20 20 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	WASHER 3 40 19 20 20LCK 21 22 20 23 24 20 CORD REEL 1 20 25 26 20 CORD REEL 1 20 27 28 20 - PONY MAIL 1 20 29 30 20 ECTRIC GATE 1 20 31 32 20 VAREHOUSE 1 20 33 34 20 SPARE 1 20 35 36 20 SPARE 1 20 37 38 20 SPARE 1 20 39 40 20	WASHER 3 40 19 20 20LCK 1 21 22 20 1 23 24 20 1 CORD REEL 1 20 25 26 20 1 CORD REEL 1 20 27 28 20 1 - PONY MAIL 1 20 29 30 20 1 ECTRIC GATE 1 20 31 32 20 1 VAREHOUSE 1 20 33 34 20 1 SPARE 1 20 37 38 20 1 SPARE 1 20 39 40 20 1

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JOB NO: 23021.00 DRAWN BY: SBI CHECKED BY: RJD DATE: 10.10.2023

1 Addendum 1 4 Addendum 4

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