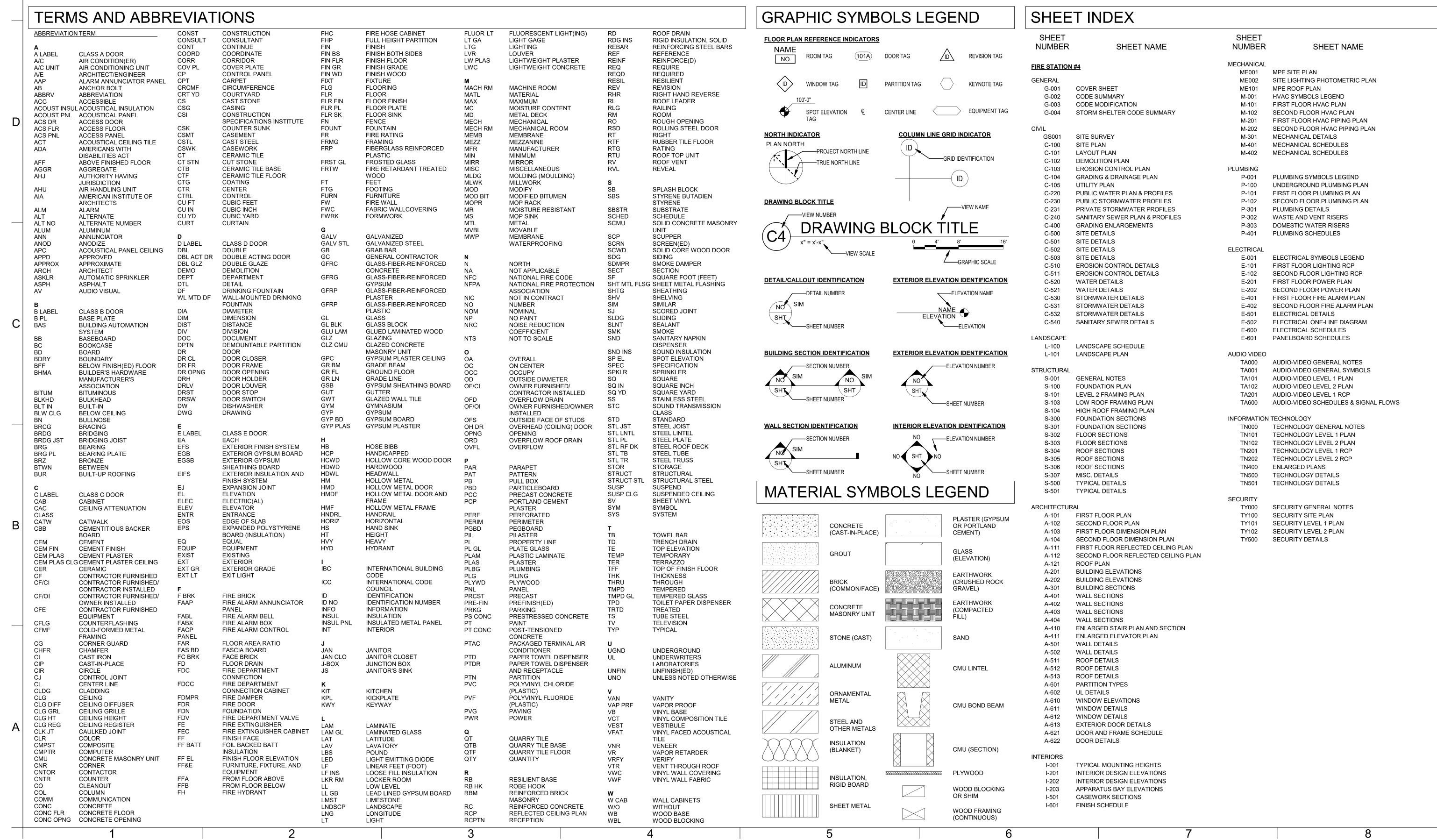
# FIRE STATION #4

5031 NORTHEAST LAKEWOOD WAY LEE'S SUMMIT, MISSOURI 64064

# 100% CONSTRUCTION DOCUMENT DRAWINGS





SUITE # 210

KANSAS CITY, MO 64114

TEL: (816) 444-4200

FAX: (316) 265-5646

www.glmv.com

GLMV ARCHITECTURE, INC.

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9229 WARD PARKWAY

CONSULTING ARCHITECT
FGMA ARCHITECTS
11250 ROGER BACON DRIVE, SUITE 16
RESTON, VIRGINIA 20190

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC
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STRUCTURAL ENGINEER
LEIGH + O'KANE
MISSOURI COA #001644

250 NE MULBERRY, SUITE 201 LEE'S SUMMIT, MO 64086 (816) 444-3144

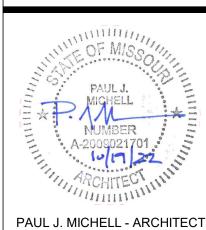
MECH., ELECT. & PLMG. ENGINEERS

MECH., ELECT. & PLMG. ENGINEERS
HOSS & BROWN ENGINEERS
MISSOURI COA #01022
15902 MIDLAND DRIVE
SHAWNEE, KS 66217
(913) 362.9090

SECURITY & IT ENGINEERS
HENDERSON ENGINEERS
MISSOURI COA #000556
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 663-8700

31 NORTHEAST LAKEWOOD WAE'S SUMMIT, MISSOURI 64064

REVISIONS:
# Description Date



PAUL J. MICHELL - ARCHITECT MO# A-2009021701

The Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect, and

PROJECT NO: 18225R21001

DATE: 10.19.2022

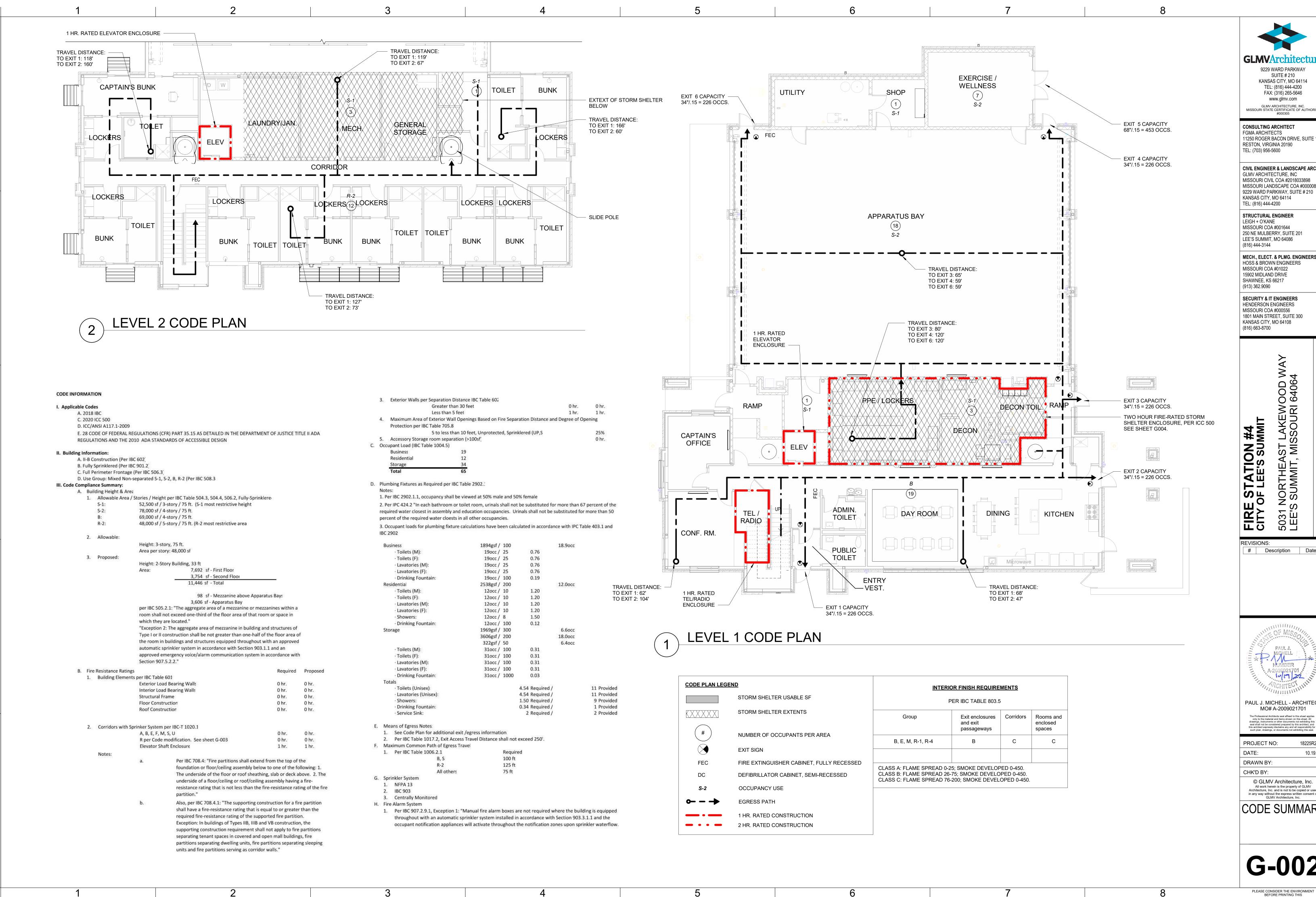
DRAWN BY: CRB

CHK'D BY: PJM

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CIVIL ENGINEER & LANDSCAPE ARCH. GLMV ARCHITECTURE, INC MISSOURI CIVIL COA #2018033898 MISSOURI LANDSCAPE COA #000008 9229 WARD PARKWAY, SUITE # 210 KANSAS CITY, MO 64114

TEL: (816) 444-4200 STRUCTURAL ENGINEER LEIGH + O'KANE MISSOURI COA #001644 250 NE MULBERRY, SUITE 201

(816) 444-3144 MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE SHAWNEE, KS 66217

(913) 362.9090 **SECURITY & IT ENGINEERS** HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108

REVISIONS: # Description Date

PAUL J. MICHELL - ARCHITECT MO# A-2009021701

PROJECT NO:	18225R21001
DATE:	10.19.2022
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**CODE SUMMARY** 

The Department also wishes to clarify that the advisory notes, appendix notes, and

figures that accompany the 1991 and 2010 Standards do not establish separately

standards. This clarification has been made to address concerns expressed by ANPRN commenters who mistakenly believed that the advisory notes in the 2004 ADAAG

established requirements beyond those established in the text of the guidelines (e.g. dvisory 504.4 suggests, but does not require, that covered entities provide visual

Definitions of residential facilities and transient lodging. The 2010 Standards add a

definition of "residential dwelling unit" and modify the current definition of "transient lodging." Under section 106.5 of the 2010 Standards, "residential dwelling unit" is defined as "[a] unit intended to be used as a residence, that is primarily long-term in

nature" and does not include transient lodging, inpatient medical care, licensed long-term care, and detention or correctional facilities. Additionally, section 106.5 of the 2010 Standards changes the definition of "transient lodging" to a building or facility "containing one or more guest room(s) for sleeping that provides accommodations that are primarily short-term in nature." "Transient lodging" does

The comments about the application of transient lodging or residential standards to social service center establishments, and housing at a place of education are addressed separately below. The Department received one additional comment on

this issue from an organization representing emergency response personnel seeking an exemption from the transient lodging accessibility requirements for crew

quarters and common use areas serving those crew quarters (e.g., locker rooms, exercise rooms, day room) that are used exclusively by on-duty emergency response personnel and that are not used for any public purpose. The commenter

argued that since emergency response personnel must meet certain physical qualifications that have the effect of exempting persons with mobility disabilities,

there is no need to build crew quarters and common use areas serving those crew

space that is less usable for most emergency response personnel.

quarters to meet the 2004 ADAAG. In addition, the commenter argued that applying the transient lodging standards would impose significant costs and create living

The ADA does not exempt spaces because of a belief or policy that excludes person

quarters that are used exclusively as a residence by emergency response personnel and the kitchens and bathrooms exclusively serving those quarters are more like residential dwelling units and are therefore covered by the residential dwelling

standards in the 2010 Standards, not the transient lodging standards. The residential dwelling standards address most of the concerns of the commenter. For

dwelling standards allow such features to be adaptable so that they would not have to be lowered until accessibility was needed. Similarly, grab bars and shower seats

example, the commenter was concerned that sinks in kitchens and layatories in

low to be comfortably used by emergency response personnel. The residential

inforcement has been installed in walls and located so as to permit their

In the NPRM, the Department proposed a new Sec. 35.151(e) requiring group

The NPRM explained that this proposal was based on two important changes in the 2004 ADAAG. First, for the first time, residential dwelling units are explicitly covered in the 2004 ADAAG in section 233. Second, the 2004 ADAAG eliminates the language contained in the 1991 Standards addressing scoping and technical

requirements for homeless shelters, group homes, and similar social service center establishments. Currently, such establishments are covered in section 9.5 of the transient lodging section of the 1991 Standards. The deletion of section 9.5 creates

The NPRM explained the Department's belief that transferring coverage of social service center establishments from the transient lodging standards to the residentia facilities standards would alleviate conflicting requirements for social service center providers. The Department believes that a substantial percentage of social service

center establishments are recipients of Federal financial assistance from the

Department of Housing and Urban Development (HUD). The Department of Health and Human Services (HHS) also provides financial assistance for the operation of

shelters through the Administration for Children and Families programs. As such, these establishments are covered both by the ADA and section 504 of the

Rehabilitation Act. UFAS is currently the design standard for new construction and alterations for entities subject to section 504. The two design standards for accessibility--the 1991 Standards and UFAS--have confronted many social service

would not have to be installed at the time of construction provided that

homes, halfway houses, shelters, or similar social service center esta that provide temporary sleeping accommodations or residential dwelling units to comply with the provisions of the 2004 ADAAG that apply to residential facilities,

including, but not limited to, the provisions in sections 233 and 809.

§ 35.151(e) Social service center establishments

an ambiguity of coverage that must be addressed.

installation at a later date.

with disabilities from certain work, However, the Department believes that crew

not include residential dwelling units intended to be used as a residence. The references to "dwelling units" and "dormitories" that are in the definition of the 1991 Standards are omitted from the 2010 Standards.

7Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 https://www.ada.gov/regs2010/2010ADAStandards/Guidance2010ADAs...

contrast on stair tread nosing to make them more visible to individuals with low vision). The Department received no significant comments on this section and it is unchanged in the final rule.

enforceable requirements unless specifically stated otherwise in the text of the

Digitally signed by Ryan Elam Date: 2022.08,16 15:30:06:05:00

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

January 25, 2022

220 SE Green Street

Joe Frogge & Mike Weisenborn

Dear Mr. Deister and Mr. Elam:

Matthew Fadel, AIA, LEED AP

Project Manager

RE: City of Lee's Summit Fire Station #4 and #5

Modification Request to IBC 2018 Section 1109.2

and GLMV Architects requests a code modification for the following

Exception #3 - Clustered Multiple Single-User Toilet and Bathing Facilities

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel.

The two stations will use the same floor plans but on two different sites. LeMay Erickson Willcox Architects (LEWA)

The request is for the City of Lee's Summit to follow the 2010 Department of Justice "Guidance on the 2010

Emergency Services building that is covered by the residential dwelling standards rather than the transient

lodging standards as these standards apply to the private living spaces of the station (not accessible to the

ADA Standards for Accessible Design" which is attached. The guidance outlines this portion of an

City of Lee's Summit, Missouri

COMMENTS Stations must comply with accessibility requirements of the the 2018 International Building Code

Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofLS.net

LEMAY

ERICKSON

WILLCOX

Reston, Virginia 20190 703.956.5600 T 703.956.5601 F

8 of 655

SUBMITTED BY:			
NAME: Matthew Fadel	( ) OWNER		'S AGENT
ADDRESS: 11250 Roger Bacon Drive	Tel.# 703-956-5600		
CITY, STATE, ZIP: Reston, VA 20190	SIGNATURE	·_ / 7/1	1
TRACY DEISTER -CODES ADM IN ISTRATION MANAGER		(x) APPROVA	AL () DENIA
SIGNATURE: Tracy Deister   Tra	DATE:	8/11/2022	21
RYAN ELAM – DIRECTOR OF DEVELOPMENT SERVICES:	(X) A	APPROVED	( ) DENIED

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

| Development Services | 220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofLS.net

LEMAY ERICKSON WILLCOX ARCHITECT

January 25, 2022

Joe Frogge & Mike Weisenborn City of Lee's Summit, Missouri Development Services Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5 Modification Request to IBC 2018 Section 508.4.4 and Section 1020.1

Dear Mr. Frogge and Mr. Weisenborn:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. LeMay Erickson Willcox Architects (LEWA) and GLMV Architects request a code modification for the following:

• The occupancy classification of the building is designed as "Mixed-Use, non-separated". The design designates the first floor spaces (plan-south of the apparatus bays) as "Business Group B" while the second floor spaces are designated as "Residential Group R-2". In accordance with IBC section 508.4.4, Table accordance with IBC Table 1020.1, because the total occupant load in the R-2 occupancy is greater than 10 2 total occupants), the required fire-resistance rating for the corridor is ½-hour rating to the exit. The occupants of the R-2 spaces are professional, able-bodied firefighters who will have a detailed familiarity of the building where they will spend most of their time. They are also equipped with the knowledge and experience to handle fire-related issues within their own building. We request that the City of Lee's Summit eliminate the requirement for the "B" and "R-2" occupancies to have 1-hour fire rated separation between occupancies and to eliminate the continuous ½-hour fire rating for egress to an exit. This would allow for the main stair to be open and communicate between the first and second floors and would also allow the two response fire poles to serve as the secondary means of egress from the second floor to the building

Matthew Fadel, AIA, LEED AP Project Manager

12/10/2021, 9:57 AM

Suite Number Sixteen Reston, Virginia 20190 703.956.5600 T 703.956.5601 F

www.lewarchitects.com

Please see attached memo					
SUBMITTED BY:  NAME: Matthew Fadel  ADDRESS: 11250 Roger Bacon Drive  CITY, STATE, ZIP: Reston, VA 20190	( ) OWNER (X) OWNER'S AGENT Tel.#_703-956-5600 SIGNATURE:				
Tracy Deister - Codes Administration Manager  Tracy Deister  Tracy Deister	(x) APPROVAL ( ) DENIAL  DATE:				
RYAN ELAM – DIRECTOR OF DEVELOPMENT SERVICES:  Digitally signed by Ryan Elam Table - 2002.07.15 12:30:11-69:00	(X) APPROVED ( ) DENIED  _ DATE:				
COMMENTS					

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Development Services
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofLS.net

LEMAY ERICKSON WILLCOX ARCHITECTS

February 10, 2022

Joe Frogge & Mike Weisenborn City of Lee's Summit, Missouri Development Services 220 SE Green Street Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5 Modification Request to IBC 2018, CHAPTER 2 – DEFINITIONS to Exit Access as it relates to Section

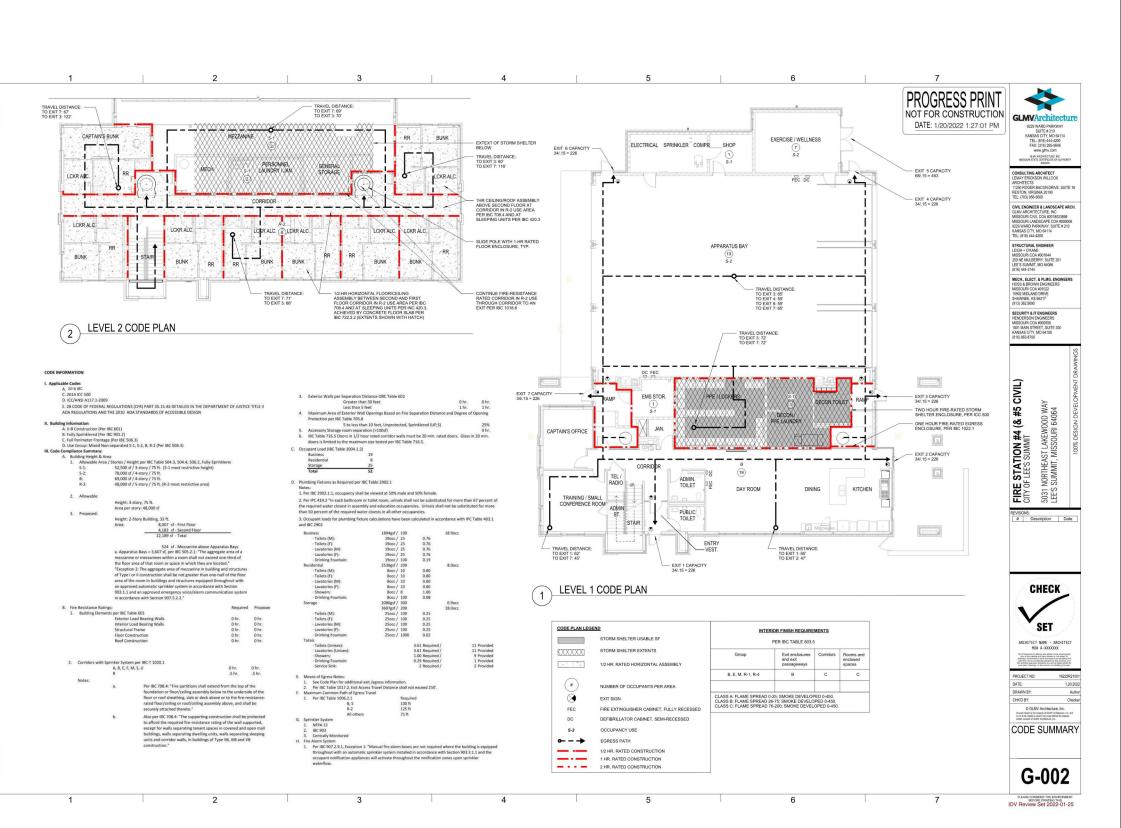
Dear Mr. Deister and Mr. Elam:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personne The two stations will use the same floor plans but on two different sites. LeMay Erickson Willcox Architects (LEWA and GLMV Architects requests a code modification for the following:

- In accordance with Table 1006.3.3(2), the R-2 Use Group on the second floor requires a second exit or access to a second exit from the second floor to the first floor, and the main stair is designated as an Exit
- Access Stair, the request is for the City of Lee's Summit to consider the fire response pole included as a part of the "Exit Access" • The plan current represents two response poles located at approximately the one-third and two-third points of the second floor corridor. As the second floor will house the private bunks of professional, able-bodied firefighters, they will have a very high level of familiarity and comfort with the use of such poles. The occupants will readily use those devices as part of their means of egress out of the station. The three vertical egress elements are located on the second floor and provide egress paths that allow for remote

ways of exiting the building safely and address the intent of the code.

Matthew Fadel, AIA, LEED AP



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KANSAS CITY, MO 64114 TEL: (816) 444-4200 STRUCTURAL ENGINEER LEIGH + O'KANE

MISSOURI COA #001644

250 NE MULBERRY, SUITE 201

LEE'S SUMMIT, MO 64086 (816) 444-3144 MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE SHAWNEE, KS 66217

(913) 362.9090 **SECURITY & IT ENGINEERS** HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108

(816) 663-8700

OOD 6406 

FIRE ST  $\mathcal{E}$ ОШ

REVISIONS: # Description

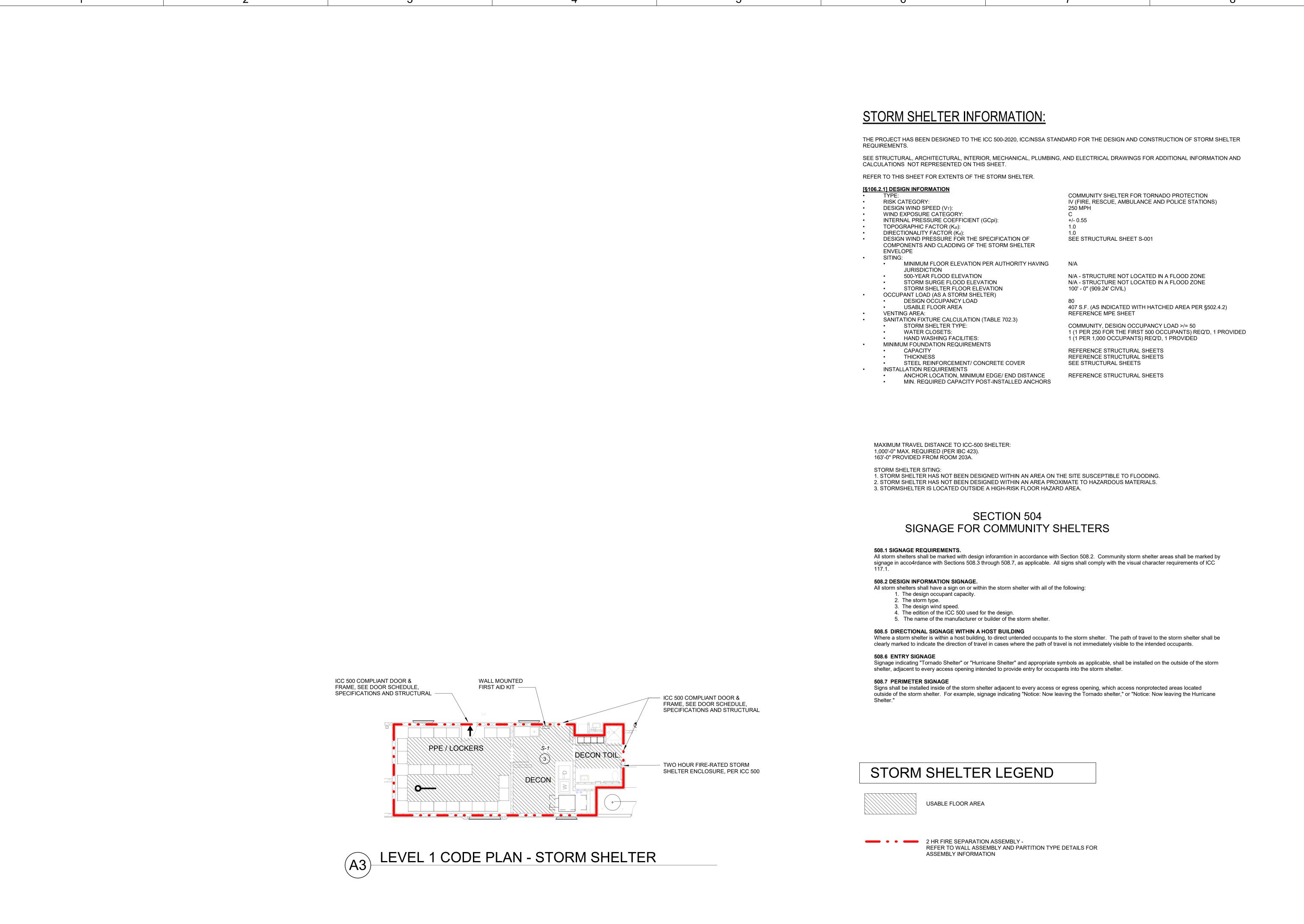


PAUL J. MICHELL - ARCHITECT MO# A-2009021701

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**MODIFICATION** 

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MISSOURI LANDSCAPE COA #000008 9229 WARD PARKWAY, SUITE # 210 KANSAS CITY, MO 64114 TEL: (816) 444-4200 STRUCTURAL ENGINEER

LEIGH + O'KANE MISSOURI COA #001644 250 NE MULBERRY, SUITE 201 LEE'S SUMMIT. MO 64086 (816) 444-3144

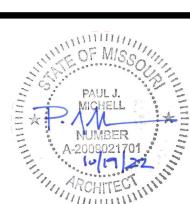
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KANSAS CITY, MO 64108 (816) 663-8700

FIRE STAT

50; LE REVISIONS: # Description Date

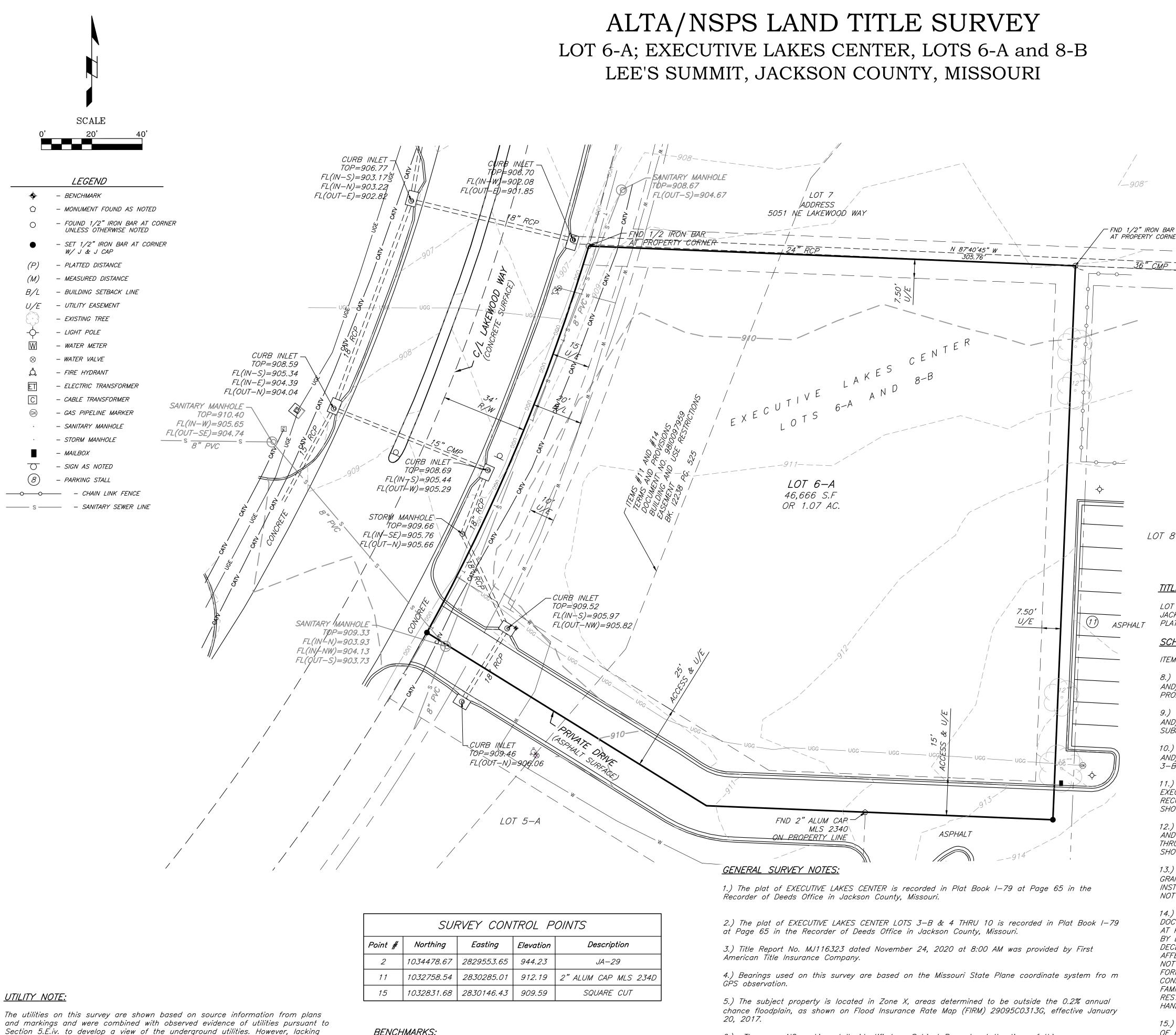


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# PROJEC1 LOCATION SE 1/4 VICINITY MAP SEC. 5-48-31

9229 Ward Parkway Kansas City, Mo 64114

## <u>PROPERTY ADDRESS:</u>

5031 NE Lakewood Way Lee's Summit, Mo 64064

All of Lot 6-A, EXECUTIVE LAKES CENTER Lots 6-A and 8-B, a subdivision in the SE 1/4 of Section 5- T 48 N - R 31 W, Lee's Summit, Jackson County,

S 87°40'45" E

LOT 6A, EXECUTIVE LAKES CENTER LOTS 6A AND 8B, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF; FILED IN PLAT BOOK 79 AT PAGE 65.

## SCHEDULE B - PART II NOTES:

ITEMS 1 - 7, AND 17 - 20 ARE NON SURVEY RELATED ITEMS.

8.) TERMS, PROVISIONS, EASEMENTS, SET-BACK LINES AND FEATURES ALL AS SHOWN AND/OR NOTED ON THE COMMISSIONER'S PLAT OF BOWLIN ESTATE. AFFECTS SUBJECT PROPERTY AND IS BLANKET IN NATURE

9.) TERMS, PROVISIONS, EASEMENTS, SET-BACK LINES AND FEATURES ALL AS SHOWN AND/OR NOTED ON THE RECORDED PLAT OF EXECUTIVE LAKES CENTER. AFFECTS SUBJECT PROPERTY, NO DOCUMENT PROVIDED.

10.) TERMS, PROVISIONS, EASEMENTS, SET-BACK LINES AND FEATURES ALL AS SHOWN AND/OR NOTED ON THE RECORDED PLAT OF EXECUTIVE LAKES CENTER LOTS 3-A & 3-B THRU 10. AFFECTS SUBJECT PROPERTY.

11.) TERMS AND PROVISIONS OF ORDINANCE NO. 4703 ACCEPTING FINAL PLAT OF EXECUTIVE LAKES CENTER, LOTS 3-B & 4 THRU 10 AS SHOWN BY INSTRUMENT RECORDED AS DOCUMENT NO. 9810097959. AFFECTS THE SUBJECT PROPERTY AND IS SHOWN HEREON. 12.) TERMS, PROVISIONS, EASEMENTS, SET-BACK LINES AND FEATURES ALL AS SHOWN

AND OR NOTED ON THE RECORDED PLAT OF EXECUTIVE LAKES CENTER LOTS 3-B & 4 THRU 10 AS AFFECTED BY ORDINANCE NO. 4925 VACATING AN UTILITY EASEMENT AS SHOWN AND DESCRIBED THEREIN. DOES NOT AFFECT THE SUBJECT PROPERTY.

13.) THE EFFECTS, IF ANY, OF THE TERMS AND PROVISIONS OF THE UTILITY EASEMENT GRANTED TO CITY OF LEE'S SUMMIT, A MUNICIPAL CORPORATION AS SHOWN BY INSTRUMENT RECORDED AS DOCUMENT NO. 97-14003 IN 12952 AT PAGE 1654. DOES NOT AFFECT THE SUBJECT PROPERTY.

14.) BUILDING AND USE RESTRICTIONS CREATED BY THE INSTRUMENT RECORDED AS DOCUMENT NO. 198126317 IN BOOK 13177 AT PAGE 329. AND 1103647 IN BOOK 12238 AT PAGE 525. AFFECTS THE SUBJECT PROPERTY AND IS SHOWN ON. AND AMENDED BY DOCUMENT NO. 98190271 IN BOOK 13310 AT PAGE 1665. AND AS AFFECTED BY DECLARATION OF ANNEXATION RECORDED AS DOCUMENT NO. 200010010475. DOES NOT AFFECT THE SUBJECT PROPERTY. AND AMENDED BY DOCUMENT NO. 2000126140. DOES NOT AFFECT THE SUBJECT PROPERTY. A VIOLATION OF WHICH WOULD NOT CAUSE A FORFEITURE OR REVERSION OF TITLE. NOTE, THIS EXCEPTION OMITS ANY COVENANT, CONDITION OR RESTRICTION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN, UNLESS AND ONLY TO THE EXTENT THAT RESTRICTION IS NOT IN VIOLATION OF STATE OR FEDERAL LAW OR RELATES TO A HANDICAP, BUT DOES NOT DISCRIMINATE AGAINST HANDICAPPED PEOPLE.

15.) TERMS AND PROVISIONS OF DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF LEE'S SUMMIT, MISSOURI AND LAKEWOOD DEVELOPMENT, L.P. AND FOUR BAR COMPANY, G.P. FILED JANUARY 13, 1999 AS DOCUMENT NO. 99/3356. AFFECTS THE SUBJECT PROPERTY AND IS BLANKET IN NATURE.

16.) TERMS AND PROVISIONS OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN CITY OF LEE'S SUMMIT, MISSOURI, A MUNICIPAL CORPORATION AND LAKEWOOD DEVELOPMENT, L.P. AS SHOWN BY INSTRUMENT RECORDED AS DOCUMENT NO. 200010029662. DOES NOT AFFECT THE SUBJECT PROPERTY.

## **BENCHMARKS:**

excavation, the exact location of underground features cannot be accurately,

other similar utility locate requests from surveyors may be ignored or result in

an incomplete response, in which case the surveyor shall note on the plat or

utilities. Where additional or more detailed information is required, the client is

completely, and reliably depicted. In addition, in some jurisdictions, 811 or

map how this affected the surveyor's assessment of the location of the

advised that excavation and/or a private utility locate request may be

necessary.

STATION JA-29: Alum Disk Located about 5.5 miles North of Lee's Summit and between I-470 and the East outer Road of North Bound ramp #14

ELEVATION = 944.23

7.) Under Ground Utilities are shown as located by Missouri one call ticket No. 211930316 dated

9.) This Property is Zoned CP-2, Planned Community Commercial.

observed in the process of conducting the fieldwork

8.) There were no Wetland Delineations marked, at the time of survey.

10.) There was no evidence of Earth moving work, building construction, or building additions

6.) There are NO parking stalls identified on Subject Property at the time of this survey.



- 1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND THE REQUIREMENTS
- 4. ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO

**LEGEND** 

TYP. CURB & GUTTER

ASPHALT PATCH

CONCRETE SIDEWALK

TYP. CONCRETE PAVING



9229 WARD PARKWAY SUITE # 210 KANSAS CITY, MO 64114 TEL: (816) 444-4200 FAX: (316) 265-5646 www.glmv.com

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(816) 444-3144 PHONE MECH., ELEC. & PLUMBING ENGINEERS

HOSS & BROWN ENGINEERS MISSOURI COA #01022

15902 MIDLAND DRIVE SHAWNEE, KS 66217 (913) 362-9090 PHONE

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(816) 663-8700 PHONE

REVISIONS:

FIRE STATIC CITY OF LEE'S SUN

# Description Date

DERICK M. HOLMES NUMBER PE-2022005196

PROJECT NO: 18225R21001

DERICK HOLMES - CIVIL ENGINEER MO# PE-2022005196

DRAWN BY: KDW CHK'D BY:

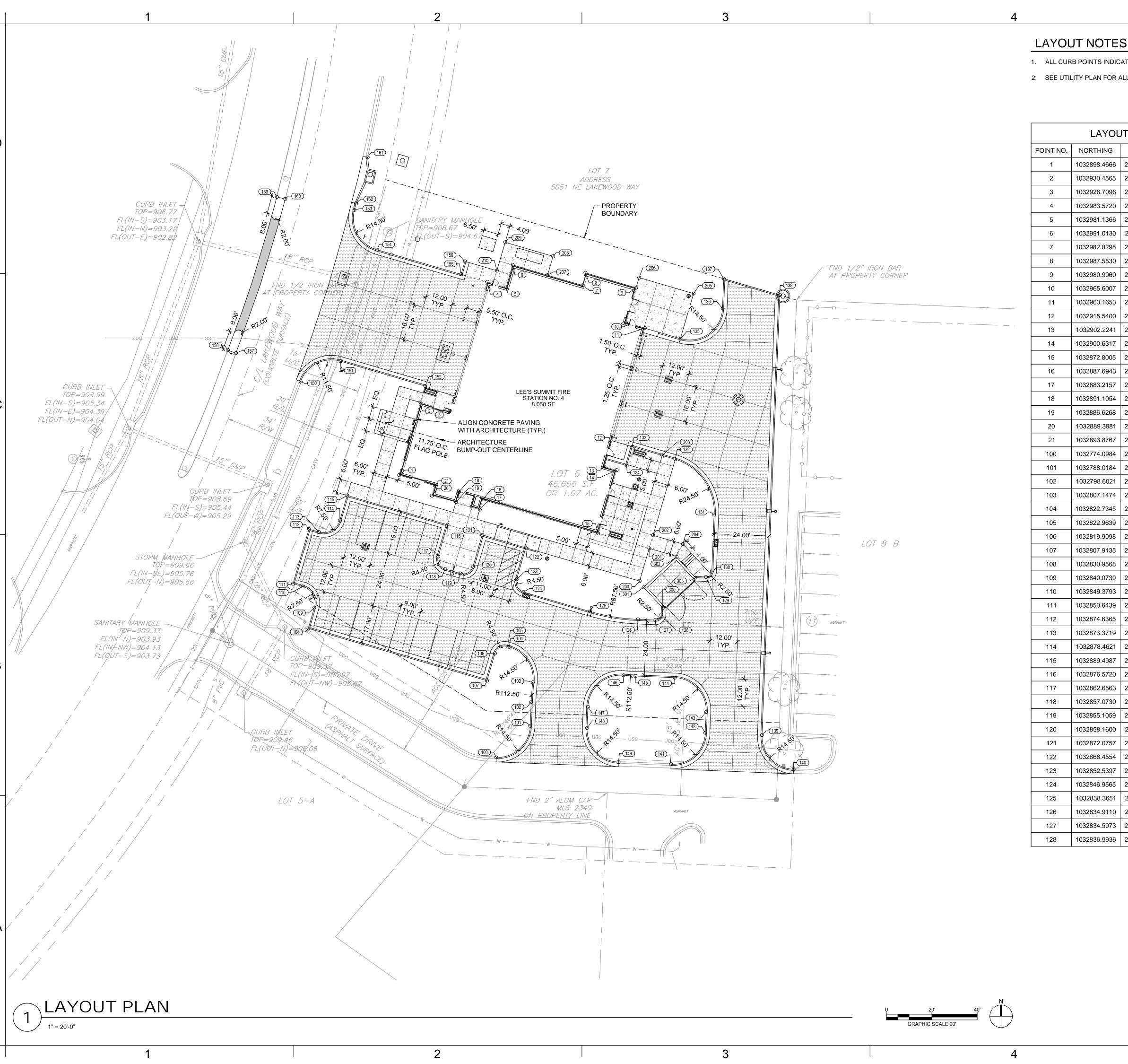
10.19.2022

DATE:

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SITE PLAN

PLEASE CONSIDER THE ENVIRONMENT



- 1. ALL CURB POINTS INDICATE BACK OF CURB UNLESS OTHERWISE NOTED.
- 2. SEE UTILITY PLAN FOR ALL UTILITY LOCATIONS AND LAYOUT.

LAYOUT TABLE					
POINT NO.	NORTHING	EASTING	DESCRIPTION		
1	1032898.4666	2830193.3865	BLDG		
2	1032930.4565	2830202.7537	BLDG		
3	1032926.7096	2830215.5497	BLDG		
4	1032983.5720	2830232.1999	BLDG		
5	1032981.1366	2830240.5173	BLDG		
6	1032991.0130	2830243.4111	BLDG		
7	1032982.0298	2830274.0899	BLDG		
8	1032987.5530	2830275.3924	BLDG		
9	1032980.9960	2830297.7855	BLDG		
10	1032965.6007	2830293.2776	BLDG		
11	1032963.1653	2830301.5950	BLDG		
12	1032915.5400	2830287.6496	BLDG		
13	1032902.2241	2830283.7505	BLDG		
14	1032900.6317	2830289.1889	BLDG		
15		2830289.1889	_		
	1032872.8005		BLDG		
16	1032887.6943	2830230.1753	BLDG		
17	1032883.2157	2830228.8639	BLDG		
18	1032891.1054	2830219.7122	BLDG		
19	1032886.6268	2830218.4008	BLDG		
20	1032889.3981	2830207.7504	BLDG		
21	1032893.8767	2830209.0618	BLDG		
100	1032774.0984	2830236.1407	CURB		
101	1032788.0184	2830251.1687	CURB		
102	1032798.6021	2830251.5850	CURB		
103	1032807.1474	2830252.2480	CURB		
104	1032822.7345	2830241.9193	CURB		
105	1032822.9639	2830241.1359	CURB		
106	1032819.9098	2830235.5527	CURB		
107	1032807.9135	2830232.0400	CURB		
108	1032830.9568	2830153.3443	CURB		
109	1032840.0739	2830156.0140	CURB		
110	1032849.3793	2830150.9238	CURB		
111	1032850.6439	2830146.6052	CURB		
112	1032874.6365	2830153.6305	CURB		
113	1032873.3719	2830157.9492	CURB		
114	1032878.4621	2830167.2546	CURB		
115	1032889.4987	2830170.4863	CURB		
116	1032876.5720	2830214.6326	CURB		
117	1032862.6563	2830210.5579	CURB		
118	1032857.0730	2830213.6120	CURB		
119	1032855.1059	2830220.3299	CURB		
120	1032858.1600	2830225.9131	CURB		
121	1032872.0757	2830229.9879	CURB		
122	1032866.4554	2830249.1819	CURB		
123	1032852.5397	2830245.1072	CURB		
124	1032846.9565	2830248.1613	CURB		
125	1032848.9565	2830277.5021	CURB		
125	1032838.3651		CURB		
		2830298.5431			
127	1032834.5973	2830306.2742	CURB		
128	1032836.9936	2830308.8735	CURB		

LAYOUT TABLE					
POINT NO.	NORTHING	EASTING	DESCRIPTION		
129	1032853.6174	2830328.5631	CURB		
130	1032856.0141	2830331.1625	CURB		
131	1032881.0650	2830332.1775	CURB		
132	1032905.4284	2830315.0476	CURB		
133	1032910.9977	2830296.0450	CURB		
134	1032902.6403	2830293.5978	CURB		
135	1032958.5666	2830317.3002	CURB		
136	1032971.8943	2830335.8630	CURB		
137	1032984.9734	2830336.3938	CURB		
138	1032977.7330	2830361.1205	CURB		
139	1032783.9463	2830353.2567	CURB		
140	1032768.8692	2830367.1848	CURB		
141	1032771.0685	2830313.1866	CURB		
142	1032784.9680	2830328.2776	CURB		
143	1032794.1568	2830328.6505	CURB		
144	1032809.2328	2830314.7503	CURB		
145	1032809.9316	2830297.5294	CURB		
146	1032810.2684	2830292.2719	CURB		
147	1032796.3937	2830276.5175	CURB		
148	1032787.0774	2830276.1510	CURB		
149	1032777.0774	2830290.0301	CURB		
150	1032772.0204	2830149.9055	CURB		
150	1032939.7241	2830167.5813	CURB		
152	1032940.0137	2830204.8730	CURB		
153	1032937.0942	2830173.6316	CURB		
154	1033013.1933	2830183.6113	CURB		
155	1032997.7133		CURB		
156		2830220.6601	CURB		
	1032992.6225	2830222.3462			
157	1032952.1542	2830121.4178	CURB		
158	1032953.4743	2830117.8512	CURB		
159	1033021.0271	2830139.4536	CURB		
160	1033020.0818	2830143.1406	CURB		
161	1033038.4377	2830179.4824	CURB		
162	1033018.1107	2830174.3714	CURB		
200	1032851.7697	2830299.3356	PAVE		
201	1032866.2054	2830303.5626	PAVE		
202	1032871.9637	2830305.2487	PAVE		
203	1032907.1191	2830309.2908	PAVE		
204	1032868.0874	2830318.4867	PAVE		
205	1032978.4404	2830323.1196	PAVE		
206	1032985.4745	2830299.0969	PAVE		
207	1032986.5168	2830258.7664	PAVE		
208	1032994.8341	2830261.2018	PAVE		
209	1033001.0165	2830240.0884	PAVE		
210	1032988.5004	2830236.4235	PAVE		
300	1032839.9703	2830309.4952	WALL		
301	1032849.0374	2830301.1351	WALL		
302	1032862.3710	2830315.5962	WALL		
		2830323.9563	WALL		



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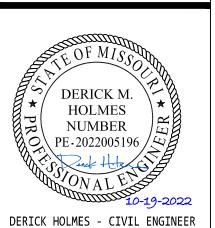
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REVISIONS: # Description Date



MO# PE-2022005196 PROJECT NO: 18225R21001

DATE: 10.19.2022 DRAWN BY: KDW CHK'D BY:

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LAYOUT PLAN

LEGEND

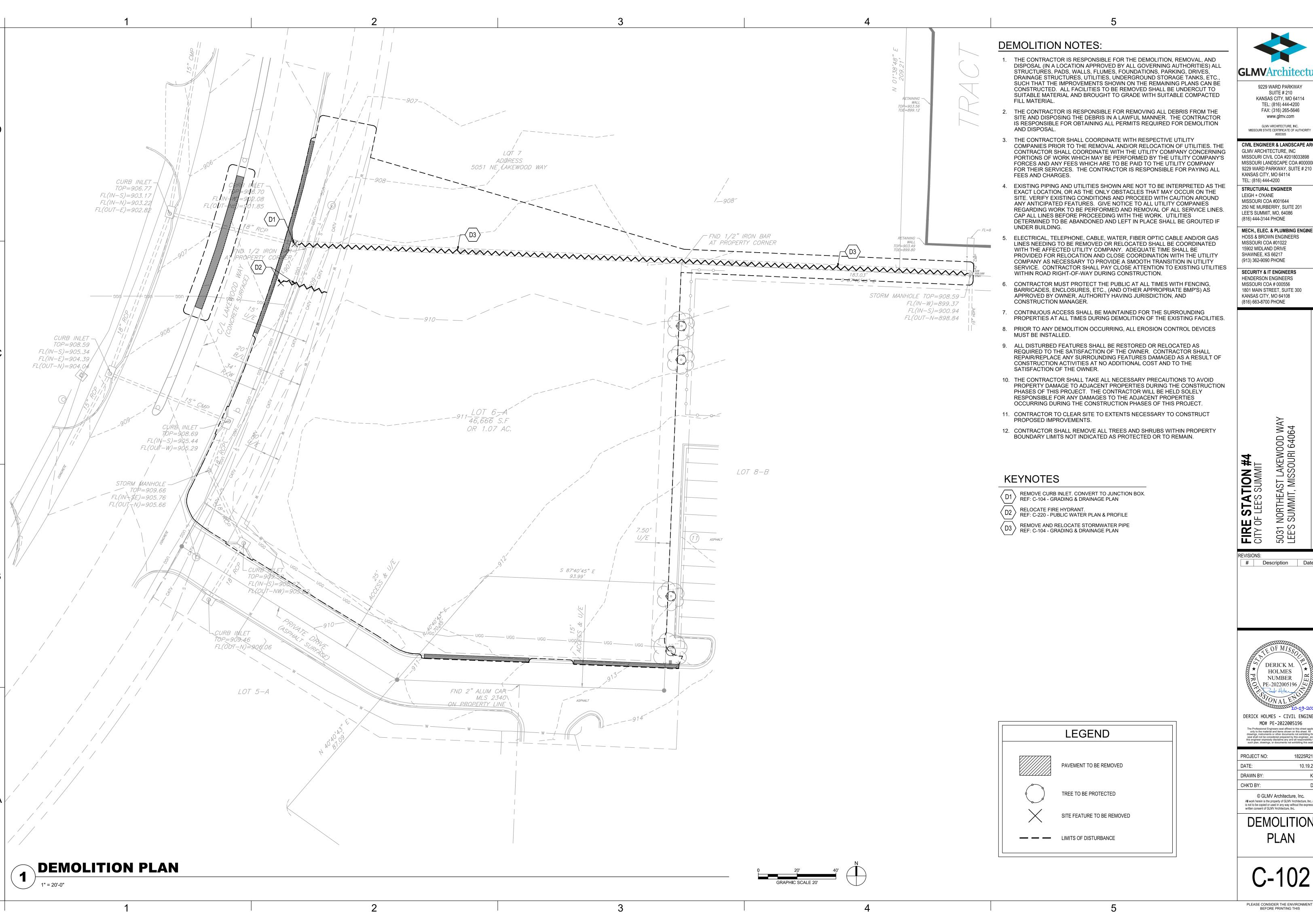
TYP. CURB & GUTTER

ASPHALT PATCH

TYP. CONCRETE PAVING

CONCRETE SIDEWALK

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5031 NORTHEAST LEE'S SUMMIT, M

# Description

HOLMES NUMBER

DERICK HOLMES - CIVIL ENGINEER MO# PE-2022005196

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DEMOLITION **PLAN** 

## GENERAL EROSION AND SEDIMENT CONTROL NOTES:

THIS SHEET OUTLINES MINIMUM STORMWATER PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTION OF SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC SEDIMENT AND EROSION CONTROL SCHEDULE. THESE NOTES ARE TO BE USED AS A GUIDELINE ONLY. THE PROJECT IS NOT CONSIDERED COMPLETE UNTIL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES ARE IN PLACE TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL TEMPORARY PRACTICES MUST BE PROPERLY REMOVED.

IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS PURSUANT TO THE GENERAL NPDES PERMIT FOR CONSTRUCTION STORMWATER, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THIS SITE. THE PLAN WAS DEVELOPED TO MINIMIZE THE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS. PREVENTION WILL BE PROVIDED THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES. THESE TECHNIQUES WILL INCLUDE BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THE FOLLOWING STEPS SHALL BE TAKEN DURING CONSTRUCTION:

- 1. PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AND GRAVEL CONSTRUCTION ENTRANCES.
- 2. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF **EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS:**
- 2.1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES
- 2.2. INSTALL TEMPORARY PERIMETER SILT FENCE
- 2.3. INSTALL TEMPORARY EXISTING CURB INLET PROTECTION 2.4. CONSTRUCT SITE IMPROVEMENTS
- 2.5. INSTALL PROTECTION FOR NEWLY INSTALLED CURB INLETS, AREA INLETS, AND JUNCTION BOXES
- 2.6. INSTALL EROSION AND SEDIMENT CONTROL BLANKETS
- 2.7. SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS 2.8. REMOVE TEMPORARY PRACTICES, PERIMETER CONTROLS, AND SITE CLEANUP.
- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE KANSAS CITY METRO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. INSTALL SILT FENCE AT INDICATED LOCATIONS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. SILT FENCE SHALL BE KEPT IN PLACE UNTIL THE PROJECT IS STABILIZED.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCE(S) AND CLEANING OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH STOCKPILES OF TOPSOIL OR FILL MATERIALS AND WITH SOIL ON SLOPES.
- 6. SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP
- 7. NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
- 8. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.
- 9. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF THE PRIMARY CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT ALL JURISDICTIONAL AUTHORITY REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE RECEIVING SITE WILL BE PROPERLY PERMITTED, WHEN REQUIRED.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
- 11. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED, AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
- 12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

## **EROSION CONTROL KEYNOTES**

E1 SILT FENCE REF: 3 / C-510

E2 AREA INLET AND JUNCTION BOX PROTECTION REF: 1 / C-511

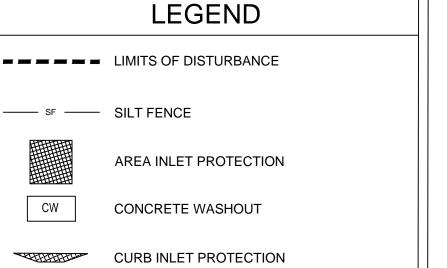
E3 CONCRETE WASHOUT REF: 1 / C-510

E4 CURB INLET PROTECTION REF: 4 / C-510

E5 CONSTRUCTION ENTRANCE REF: 1 / C-510

⟨E6⟩ TEMPORARY EROSION CONTROL BLANKET REF: 2 / C-510

 $\langle$  E7 angle LIMITS OF DISTURBANCE



CONSTRUCTION ENTRANCE

TEMPORARY EROSION CONTROL BLANKET

**CONTROL PLAN** 

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SHAWNEE, KS 66217

(913) 362-9090 PHONE

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> DERICK M. HOLMES NUMBER ○\ PE-2022005196

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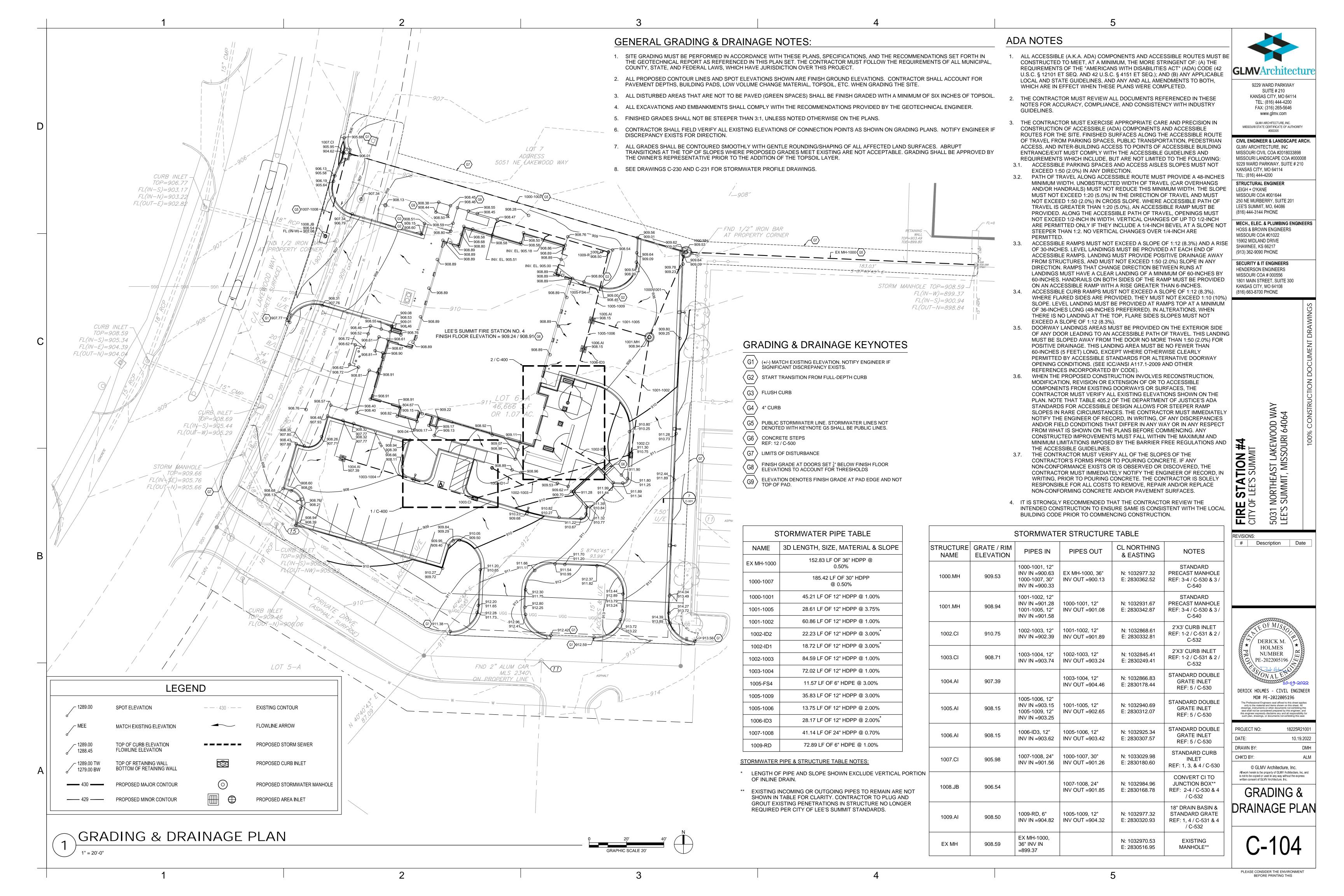
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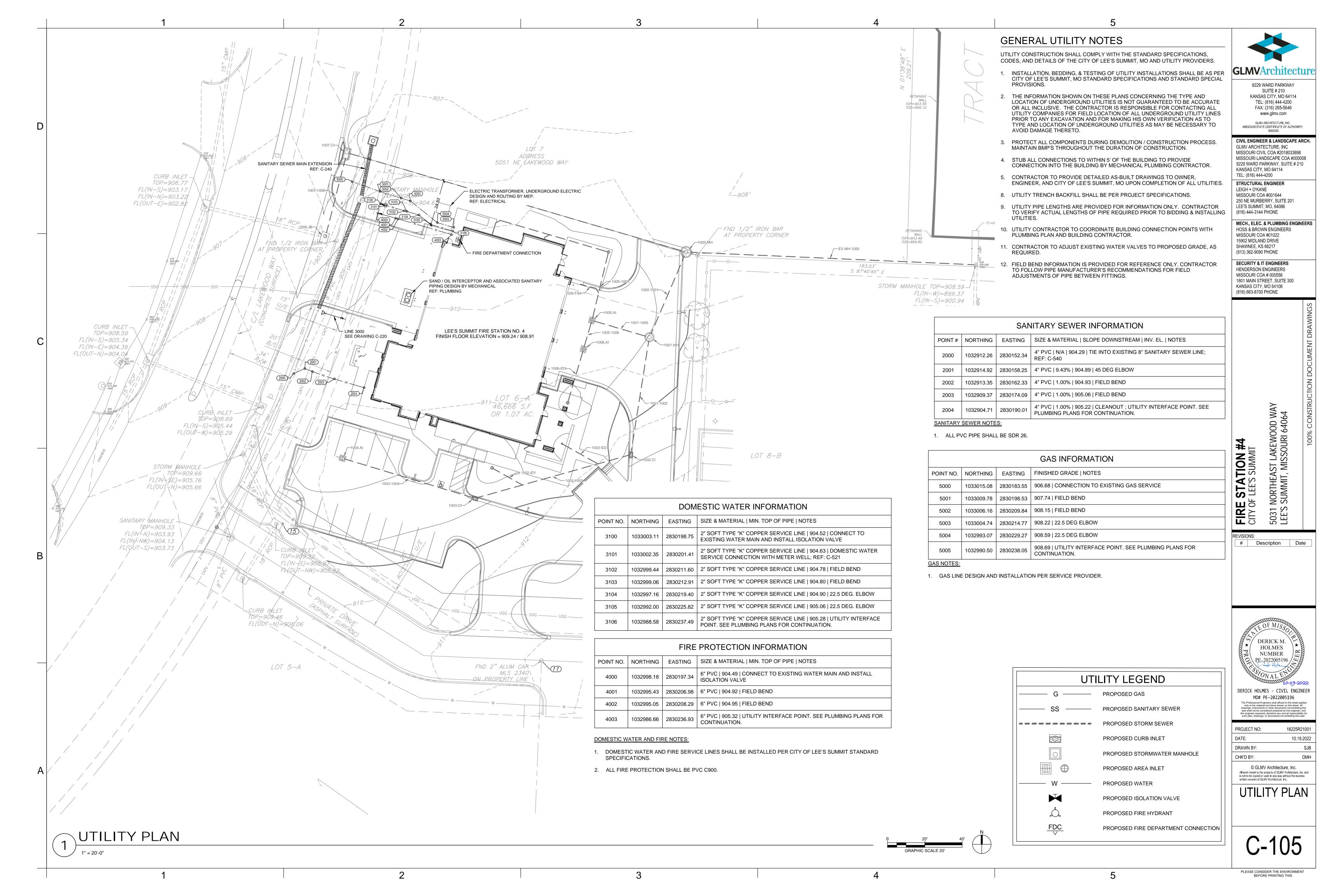
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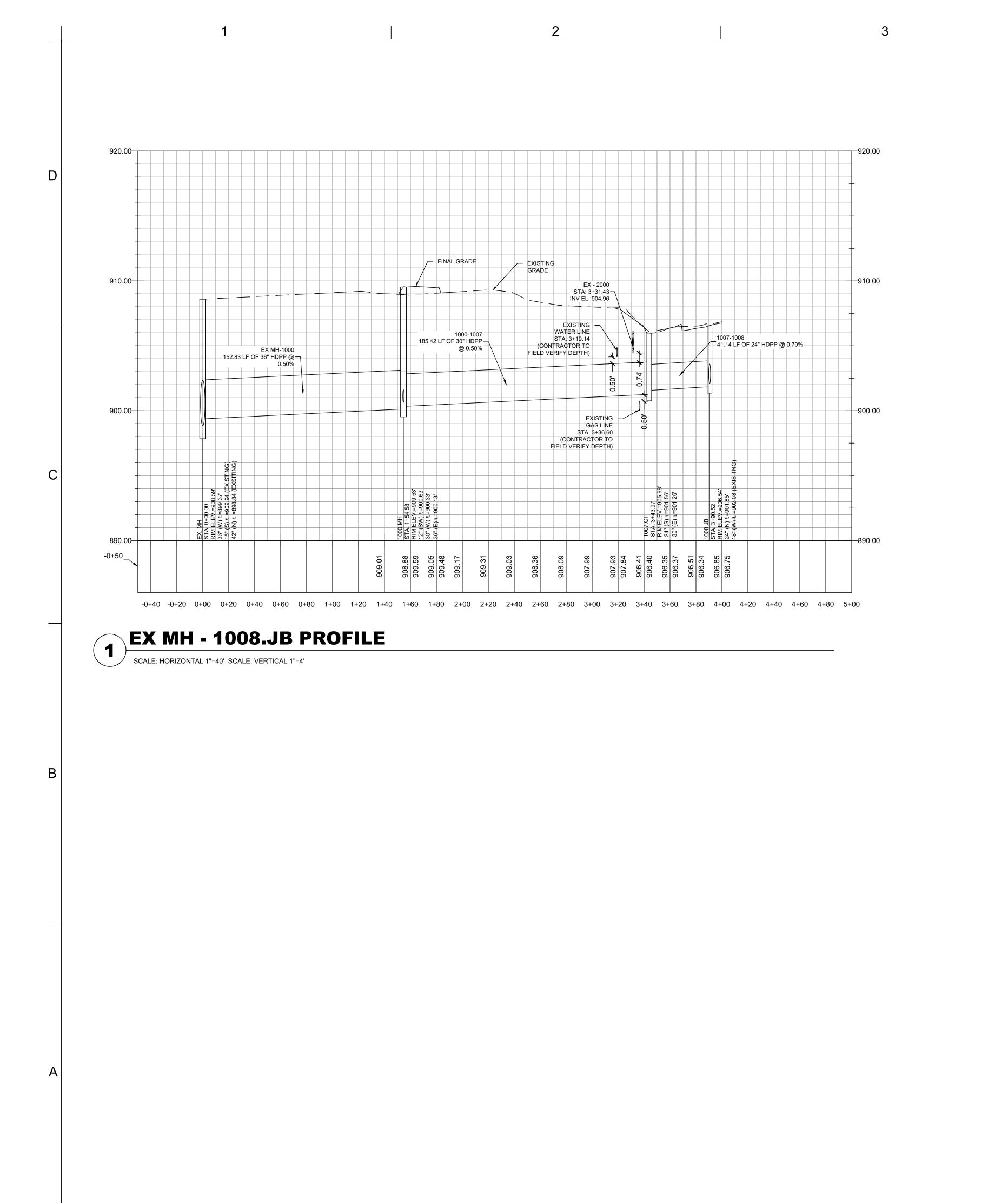
**EROSION** 

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2

## GENERAL NOTES:

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250 NE MURBERRY, SUITE 201
LEE'S SUMMIT, MO, 64086

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CONSTRUCTION DOC

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOO
LEE'S SUMMIT, MISSOURI 64

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# Description Date

DERICK M.

HOLMES
NUMBER
PE-2022005196

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 HFL

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 CDW

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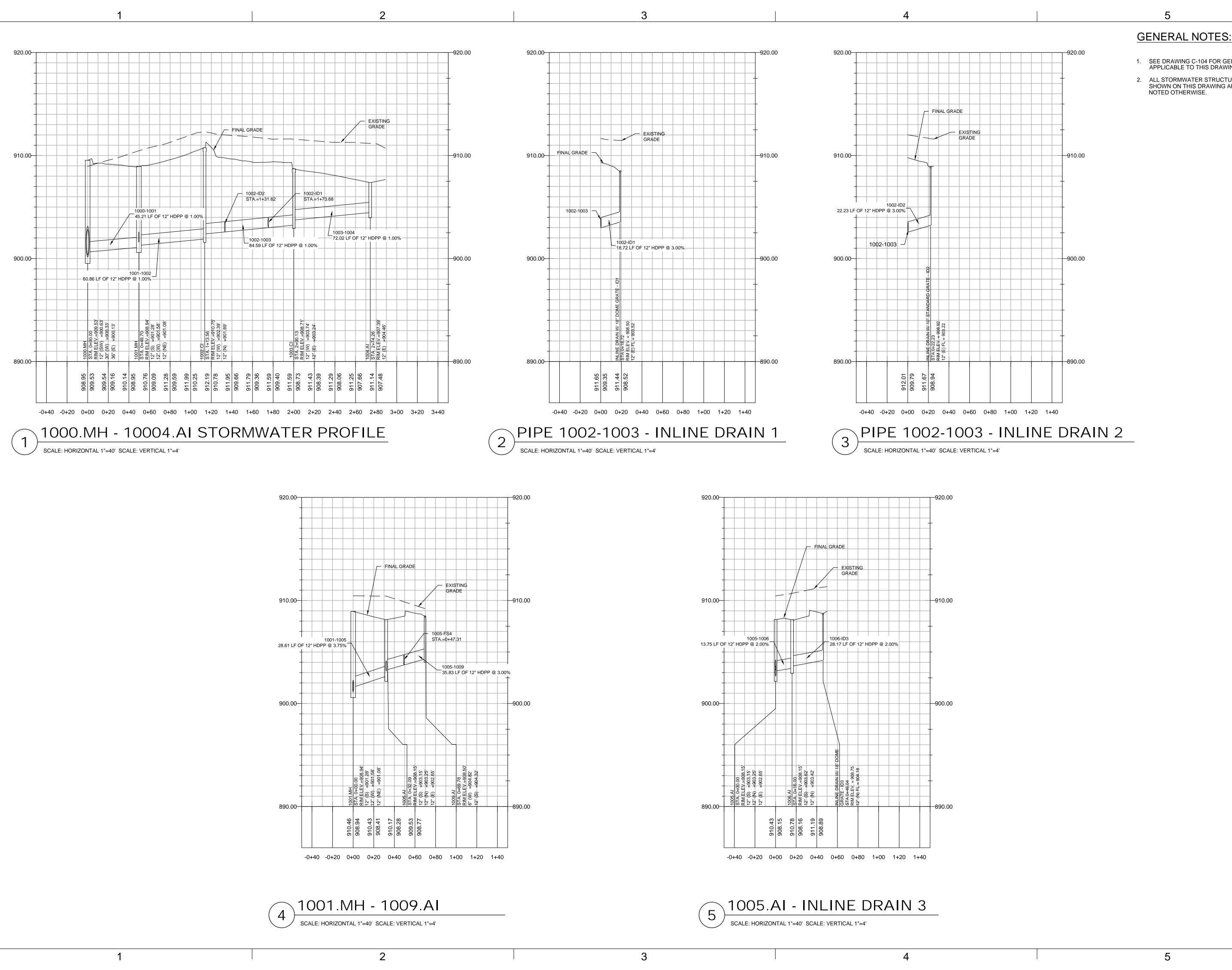
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PUBLIC

STORMWATER PROFILES

C-230

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HOLMES NUMBER

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PRIVATE STORMWATER

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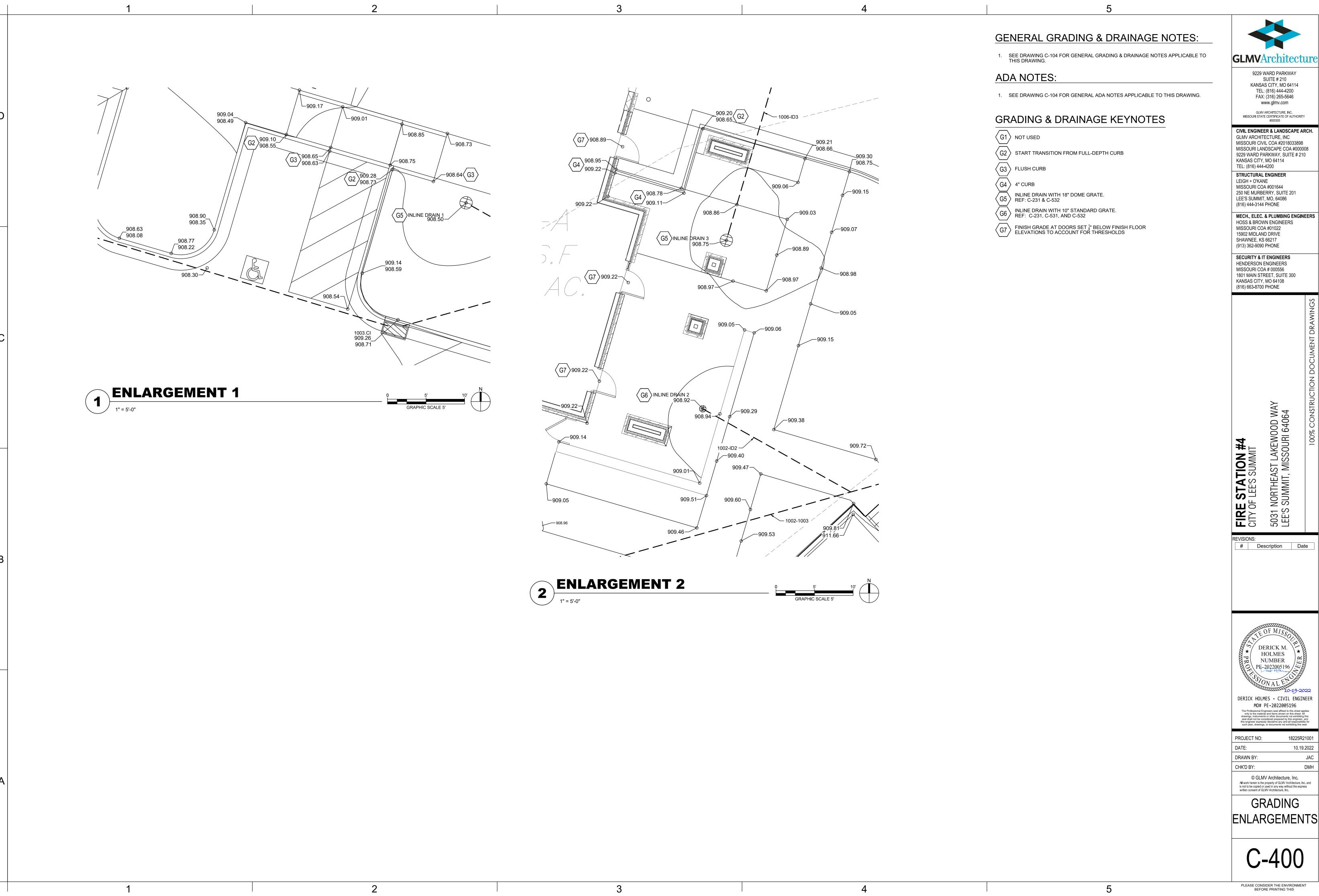
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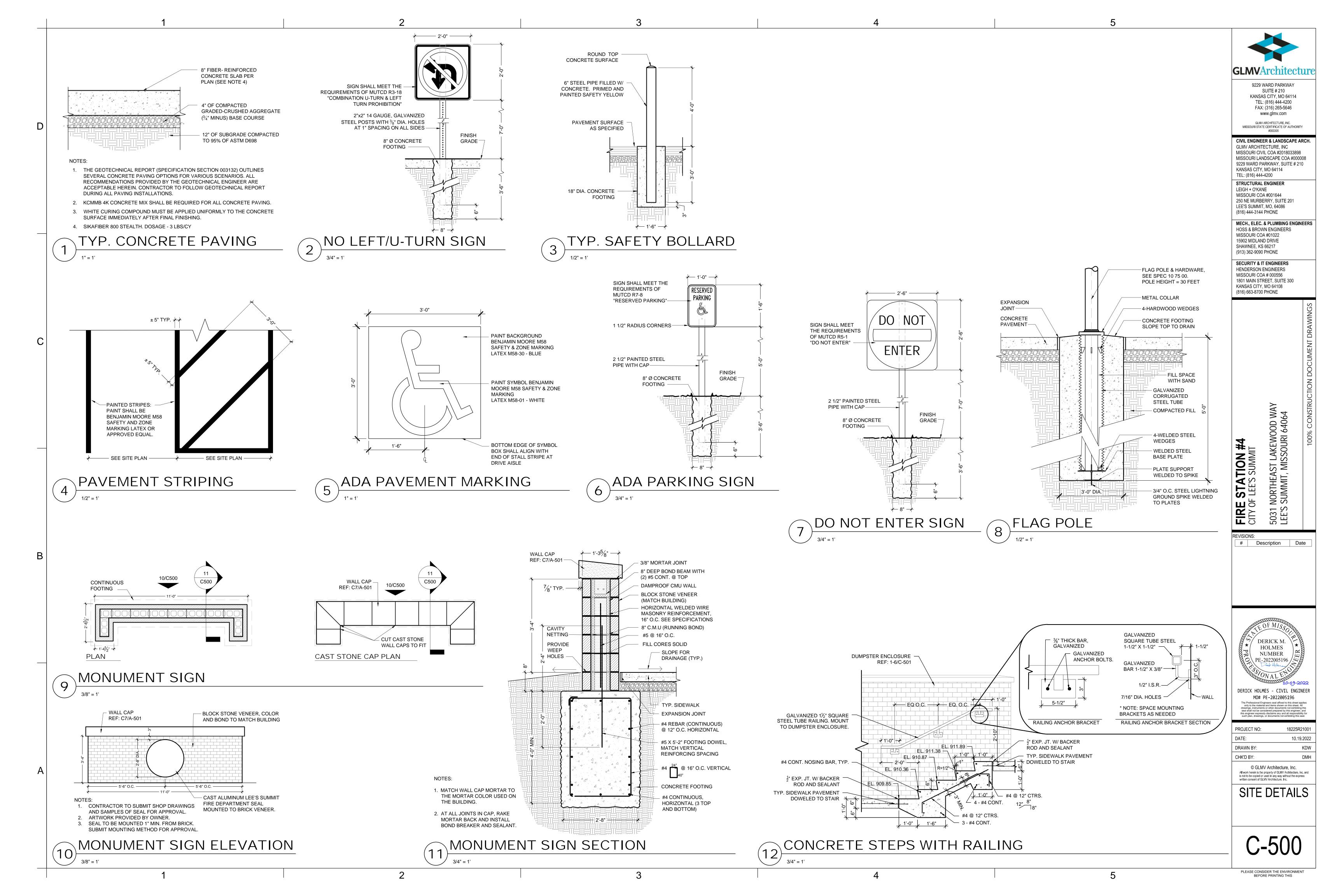
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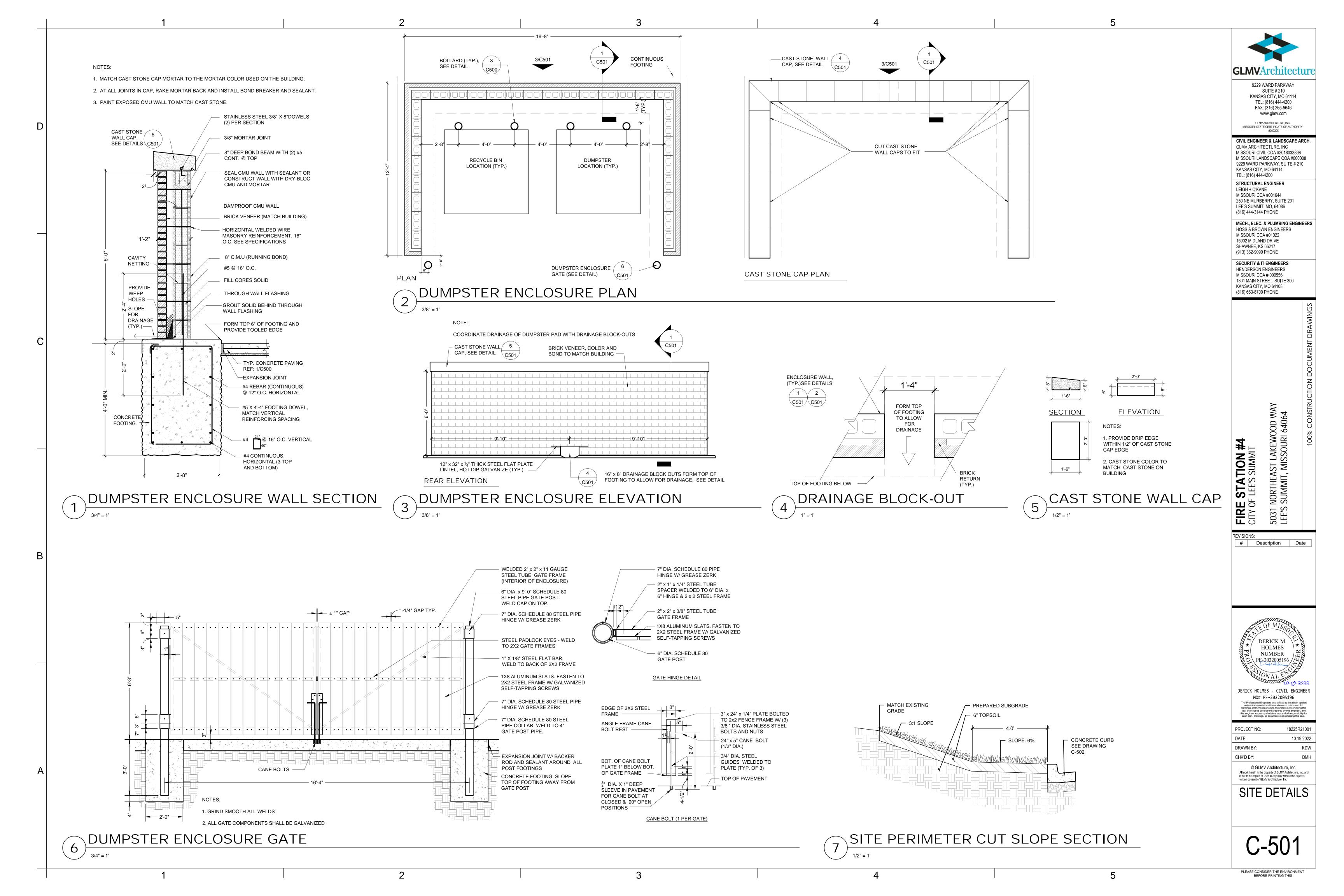
18225R21001 10.19.2022 DMH

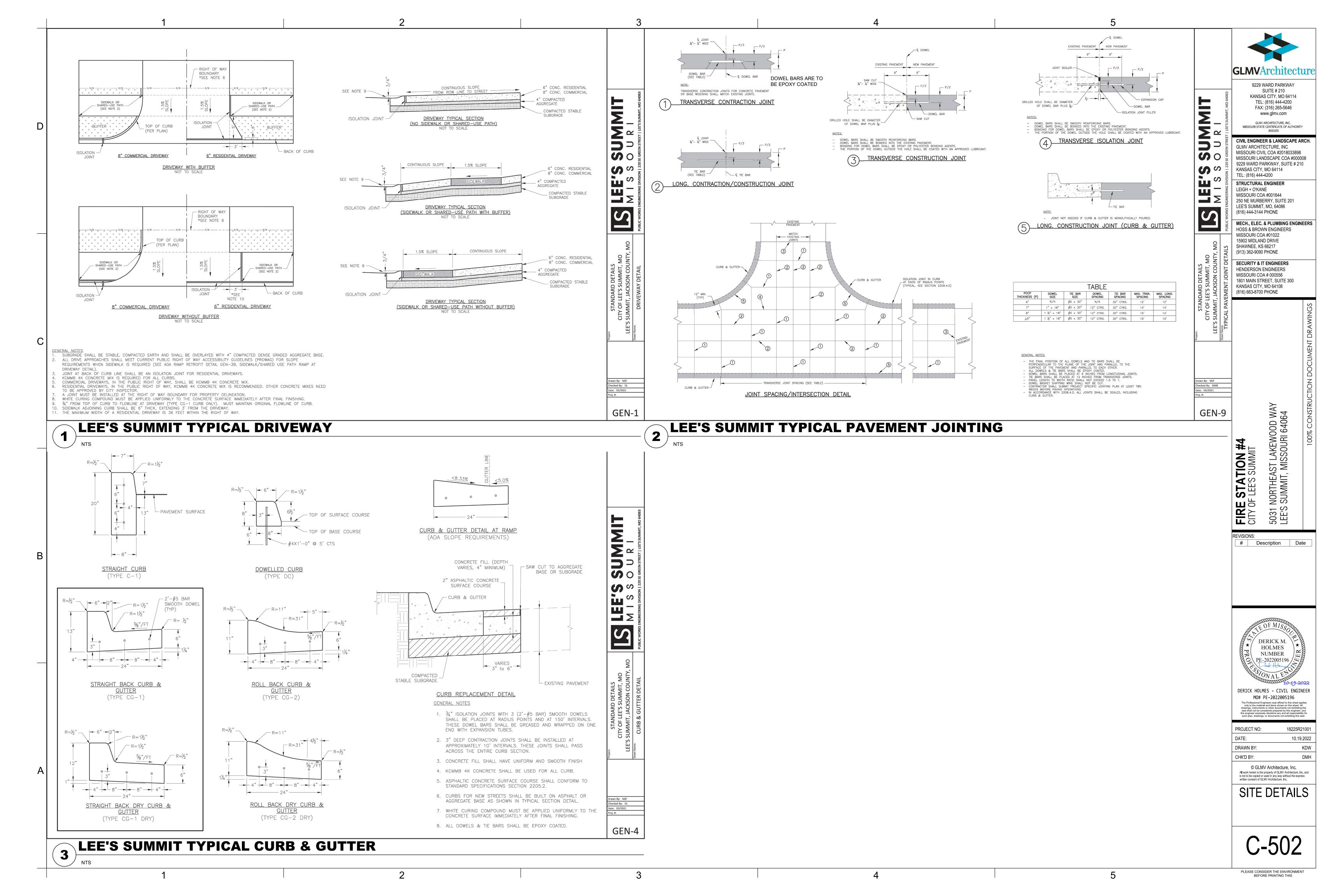
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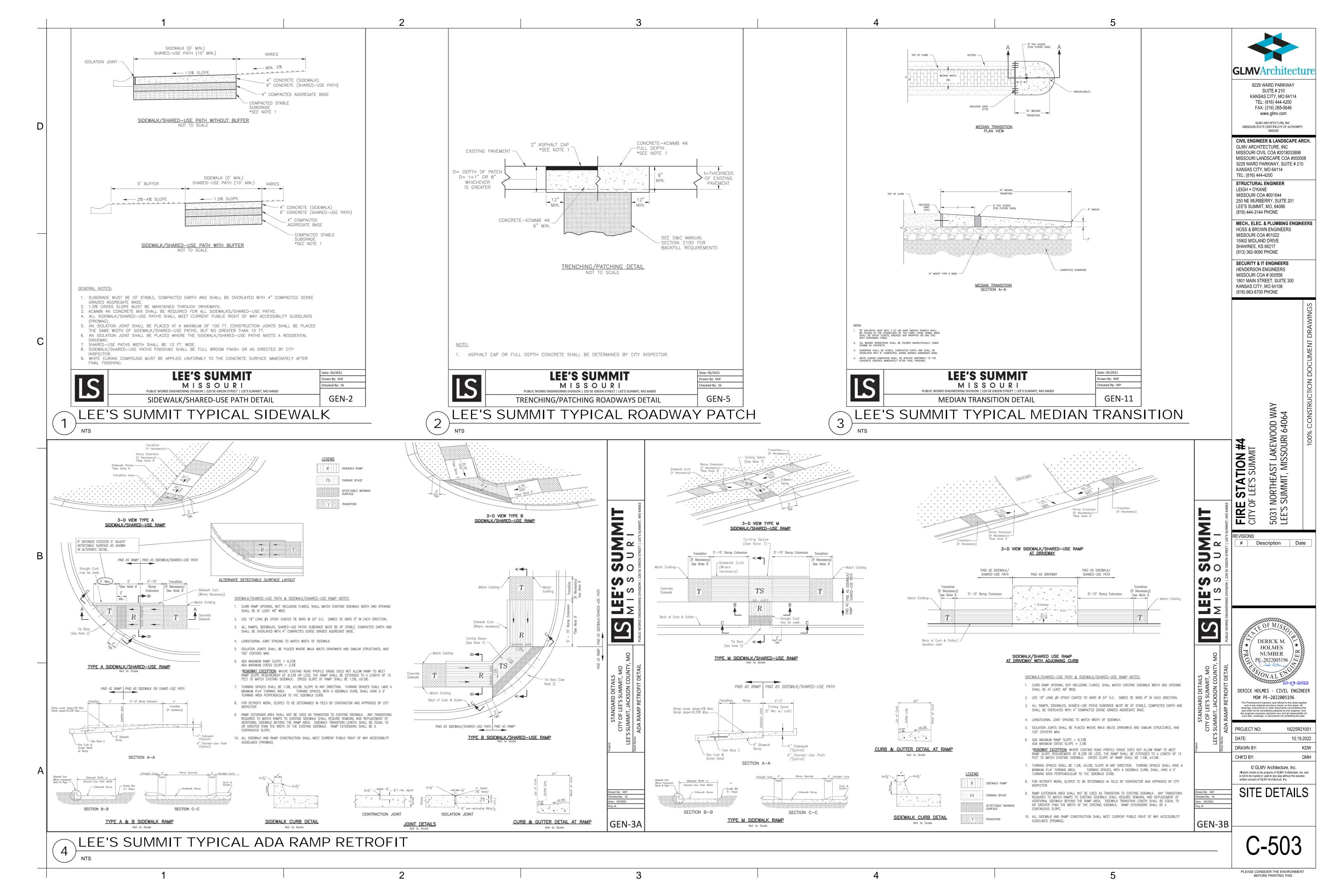
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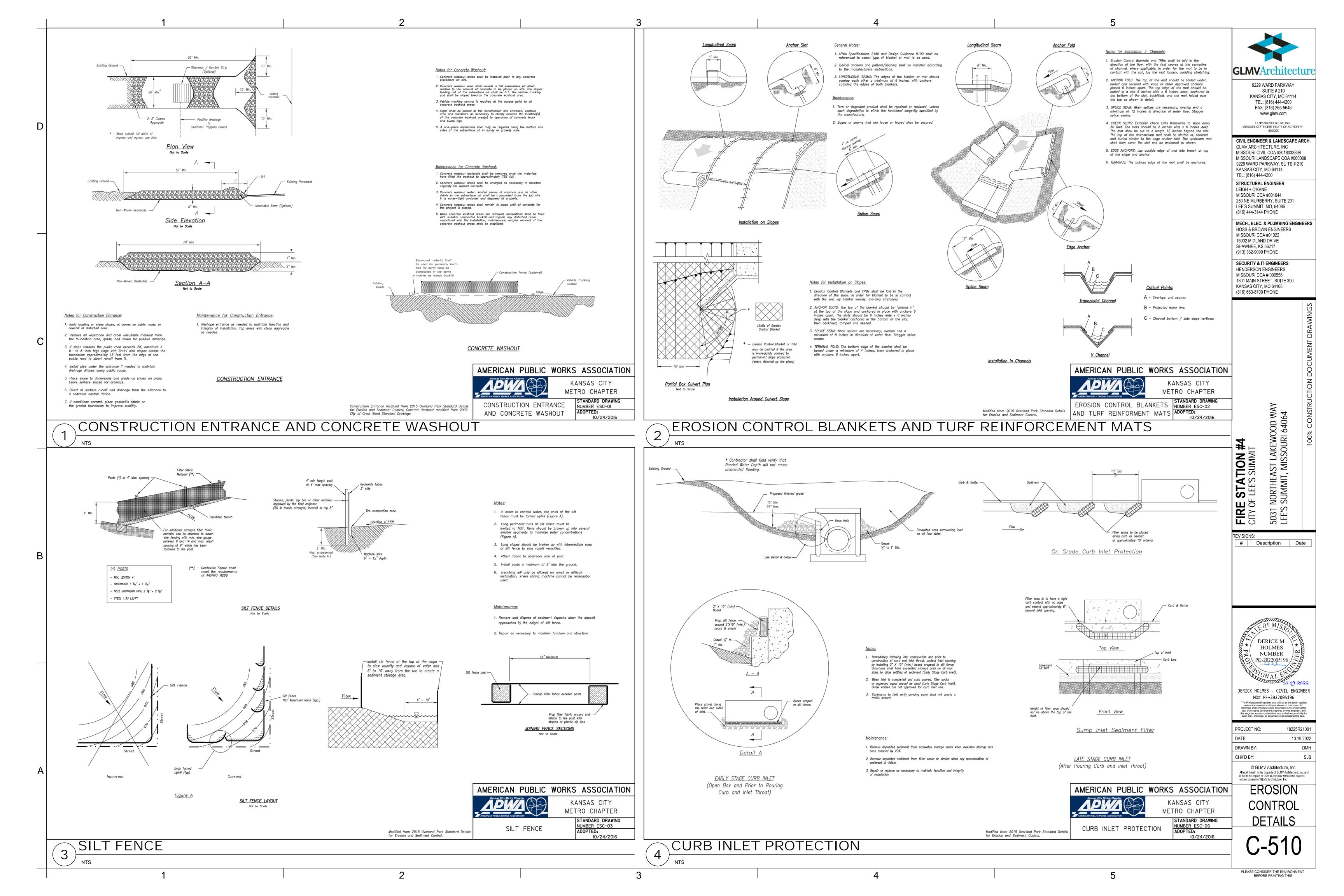
GRADING ENLARGEMENTS

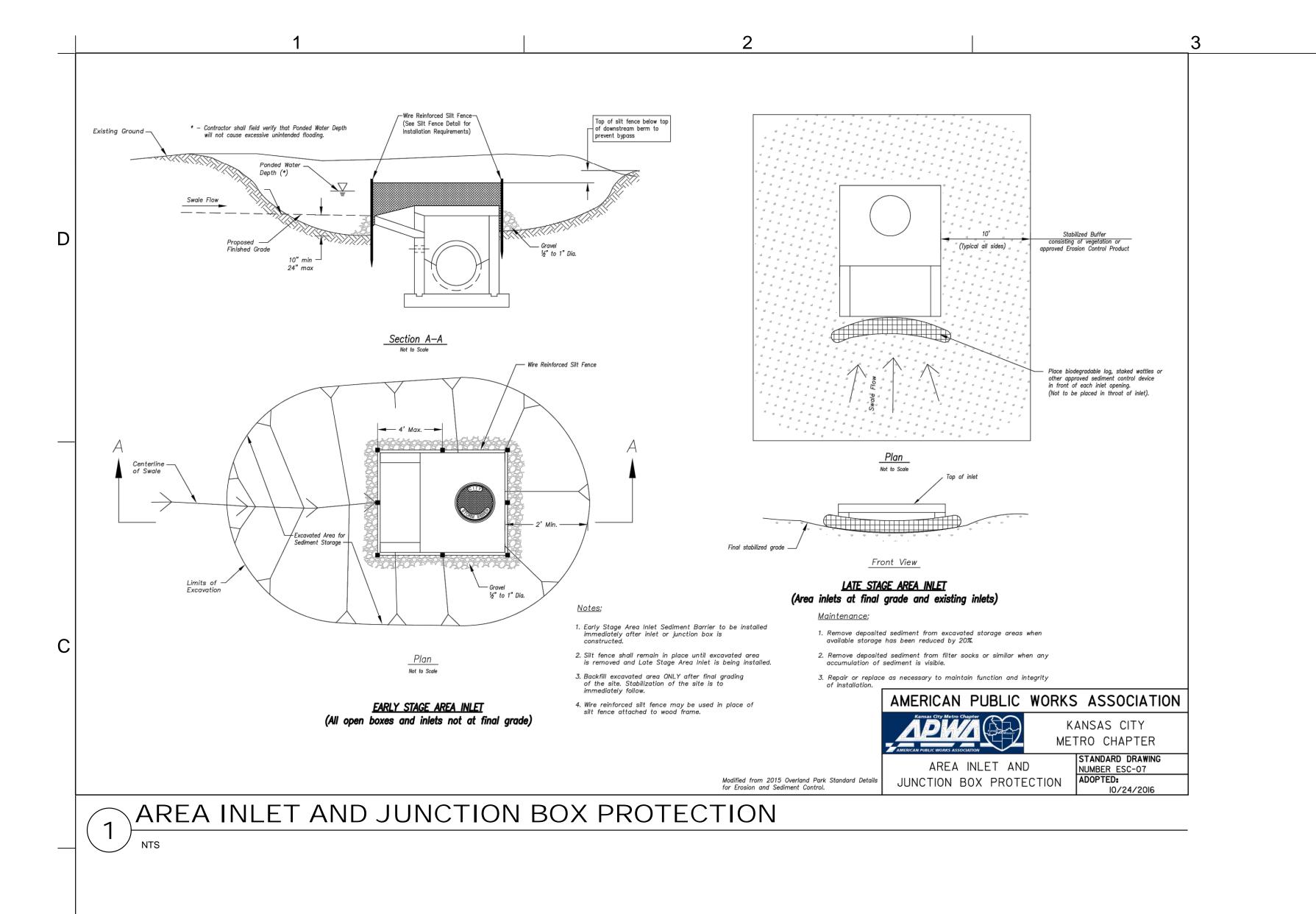












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STRUCTURAL ENGINEER LEIGH + O'KANE MISSOURI COA #001644 250 NE MURBERRY, SUITE 201

MISSOURI COA #01022

15902 MIDLAND DRIVE

LEE'S SUMMIT, MO, 64086 (816) 444-3144 PHONE MECH., ELEC. & PLUMBING ENGINEERS HOSS & BROWN ENGINEERS

SHAWNEE, KS 66217 (913) 362-9090 PHONE SECURITY & IT ENGINEERS HENDERSON ENGINEERS MISSOURI COA # 000556 1801 MAIN STREET, SUITE 300

KANSAS CITY, MO 64108

(816) 663-8700 PHONE

FIRE STATION #4
CITY OF LEE'S SUMMIT

REVISIONS: # Description Date

DERICK M. HOLMES NUMBER PE-2022005196 DERICK HOLMES - CIVIL ENGINEER MO# PE-2022005196

PROJECT NO: 18225R21001 10.19.2022 DRAWN BY:

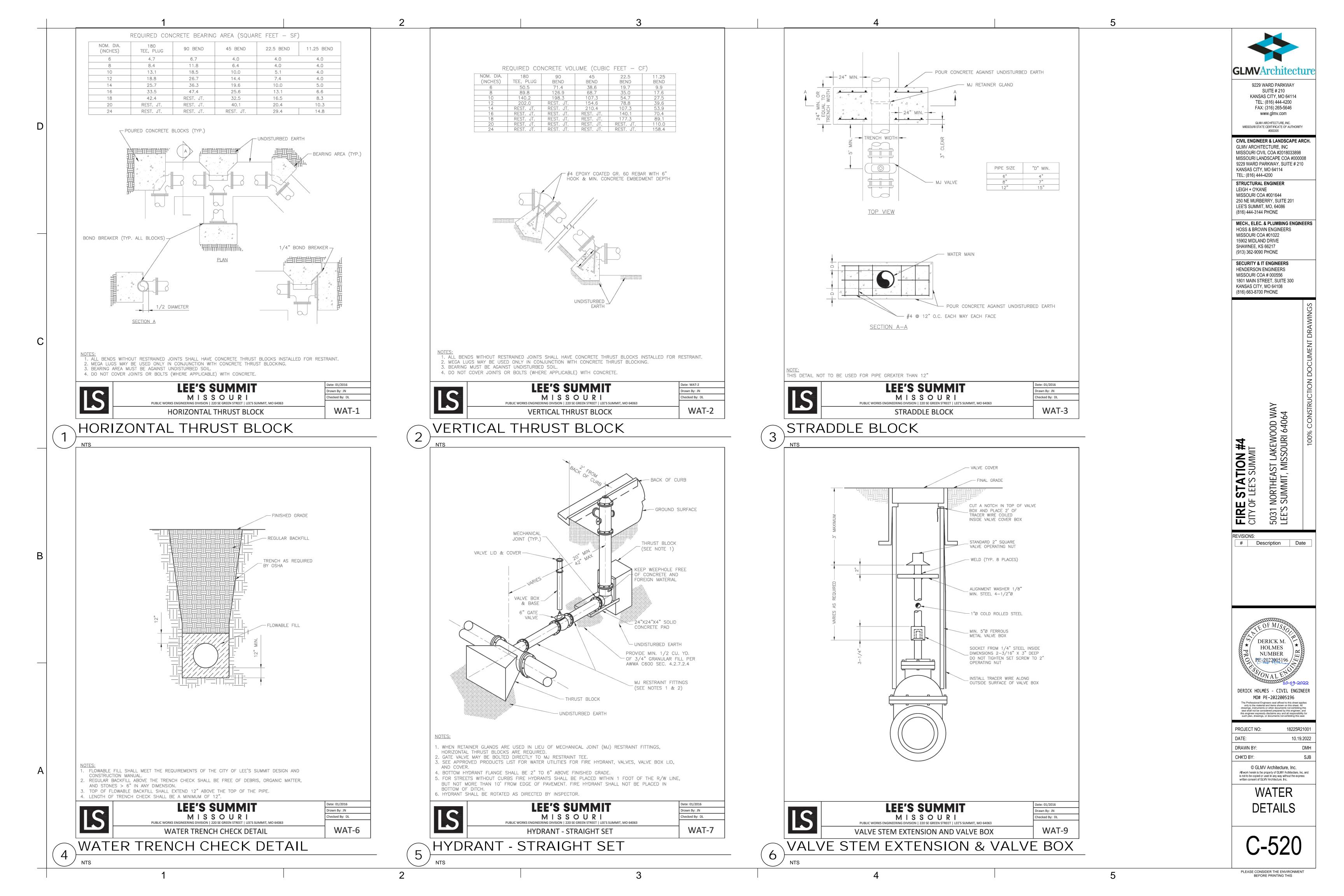
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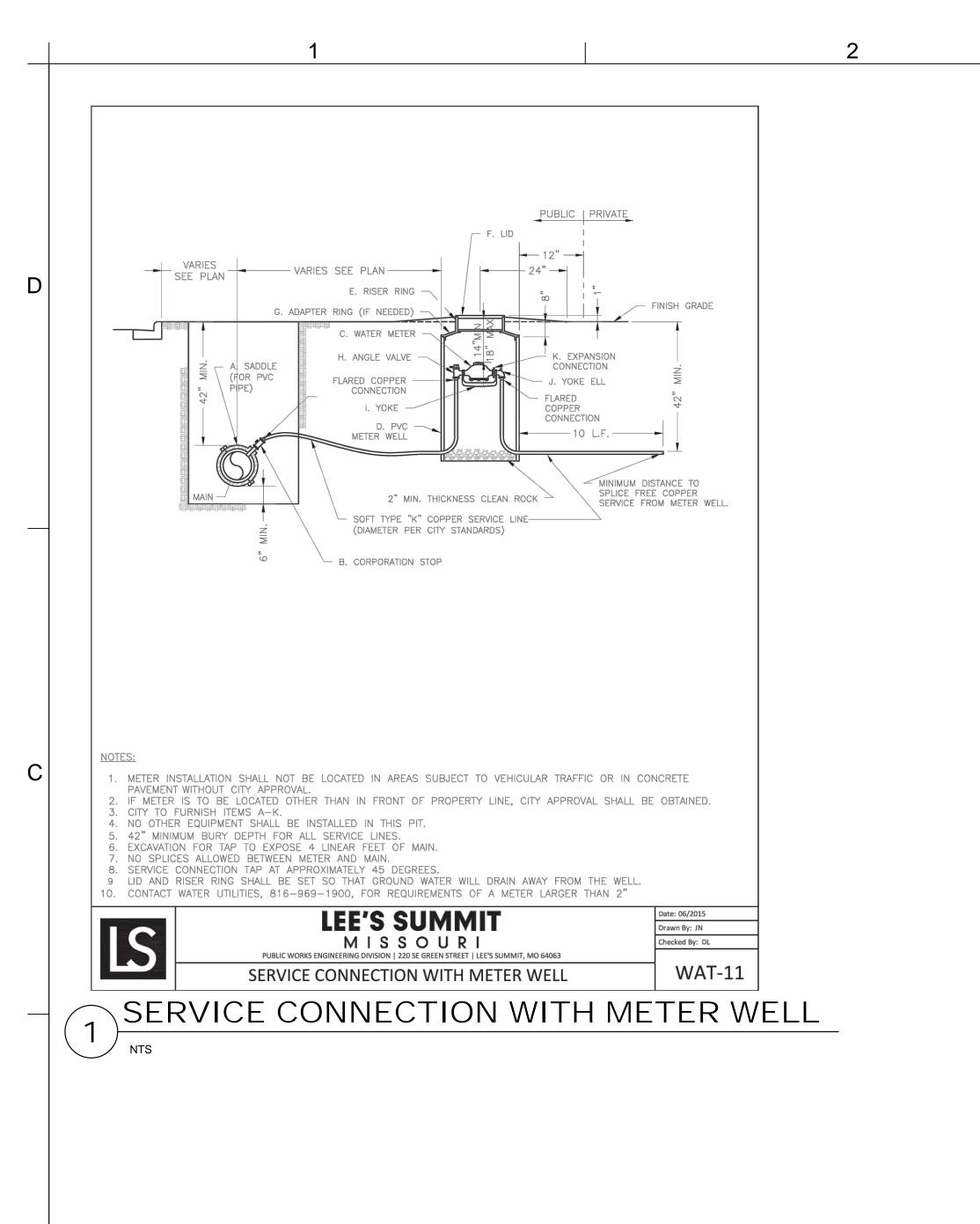
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**EROSION** CONTROL

**DETAILS** 

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CITY OF LEE'S SUMMIT

REVISIONS: # Description Date

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PROJECT NO: 18225R21001 DATE: 10.19.2022 DRAWN BY:

DMH

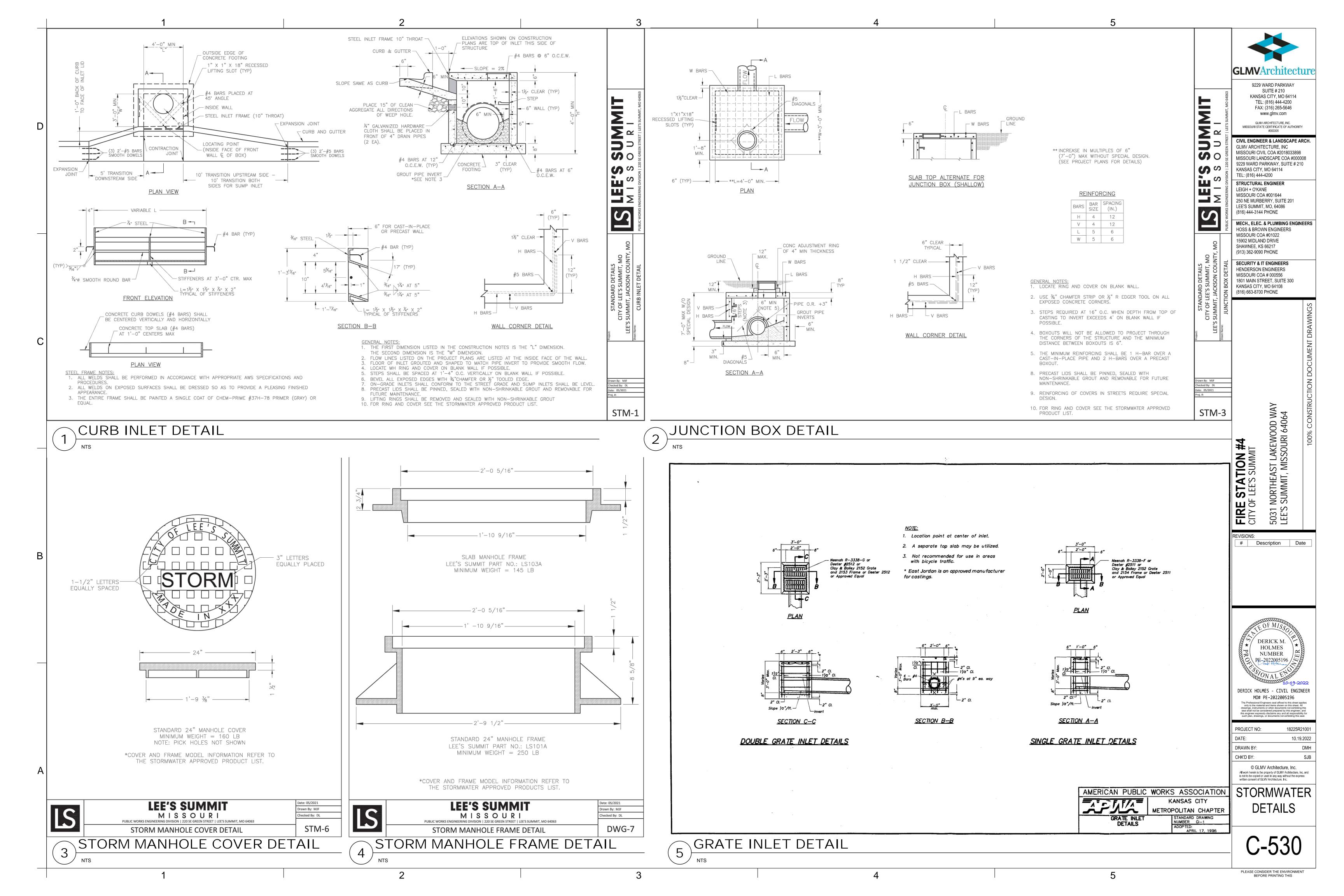
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WATER **DETAILS** 

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#### Section 2721

#### **Engineered Surface Drainage Products**

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

#### **MATERIALS**

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

[	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH	DRAWN BY	CJA	MATERIAL			_	3130 VERONA AVE
	NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT					<u>ا</u>	<b>(See</b> )	BUFORD, GA 30518
	OR POSSESSION OF THIS PRINT DOES NOT CONFER,	DATE	3-10-00					PHN (770) 932-2443
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	TECHNICAL INFORMATION SHOWN HEREIN	REVISED BY	NMH	PROJECT NO./NAME		ער ב	Picco	www.nyloplast-us.co
	REPRODUCTION OF THIS PRINT OR ANY INFORMATION					TITLE		
	CONTAINED HEREIN, OR MANUFACTURE OF ANY	DATE	02-21-18			0 1141 201	IN DRAIN BASIN S	DECICIOATIONS
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	IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN	DIVIO 0175			1054	DING NO	7004 440 044	per i

DWG SIZE A SCALE 1:1 SHEET 1 OF 1 DWG NO. 7001-110-011 REV J

# 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS

JUSTICE, 28 CFR PART 36.

1099CGSF APPROX. DRAIN AREA = 37.35 SQ IN APPROX. WEIGHT = 15.40 LBS DIMENSIONS ARE FOR REFERENCE ONLY 3130 VERONA AVE BUFORD, GA 30518 ACTUAL DIMENSIONS MAY VARY NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT DIMENSIONS ARE IN INCHES PHN (770) 932-2443 OR POSSESSION OF THIS PRINT DOES NOT CONFER. GRATE HAS LIGHT DUTY RATING ANSFER, OR LICENSE THE USE OF THE DESIGN OR FAX (770) 932-2490 QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 TECHNICAL INFORMATION SHOWN HEREIN PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT PRODUCTION OF THIS PRINT OR ANY INFORMATION NTAINED HEREIN, OR MANUFACTURE OF ANY SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF S FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN

# 10" STANDARD GRATE ASSEMBLY - TYPE B

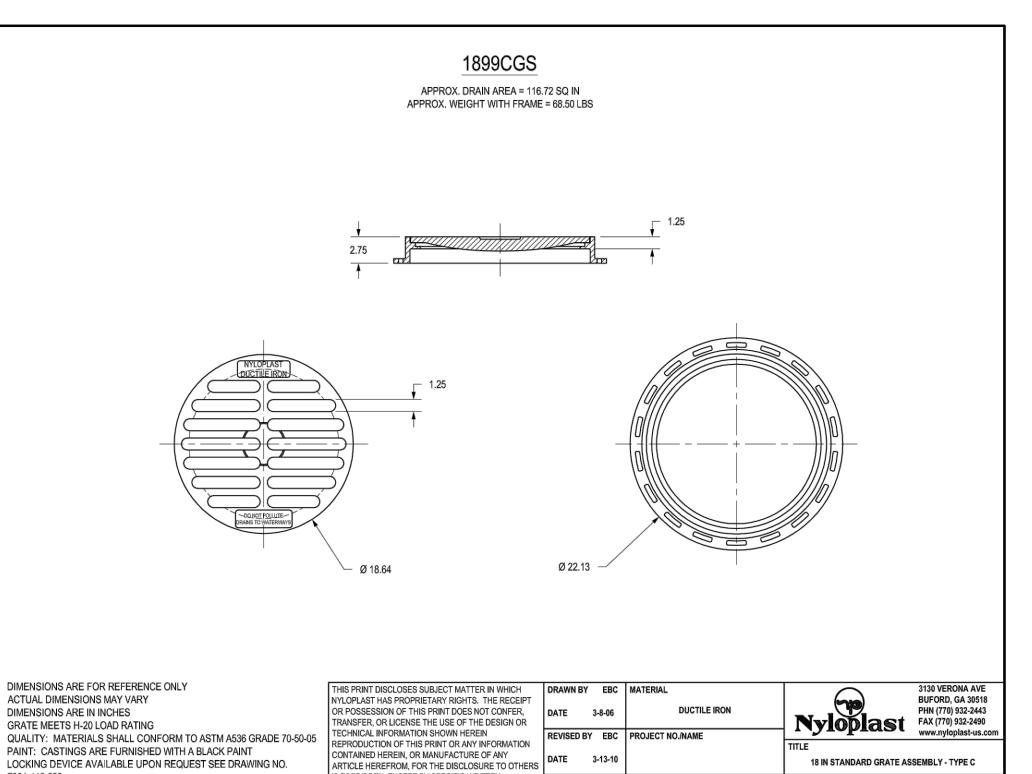
7001-110-540

DWG SIZE A SCALE 1:5 SHEET 1 OF 1 DWG NO.

# IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. @22010 DWG SIZE A SCALE 1:10 SHEET 1 OF 1 DWG NO. 18" STANDARD GRATE ASSEMBLY-TYPE C

NYLOPLAST 24" DRAIN BASIN: 2824AG \_ \_X (1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D. 18" MIN WIDTH GUIDELINE 8" MIN THICKNESS GUIDELINE MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER (3) VARIABLE INVERT HEIGHTS RECOMMENDATION AVAILABLE (ACCORDING TO TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR (MIN. MANUFACTURING (5) ADAPTER ANGLES PLANS/TAKE OFF) GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE REQ. SAME AS MIN. SUMP) DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, VARIABLE 0° - 360° TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION. (3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.) (4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 24" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I. WATERTIGHT JOINT CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. (CORRUGATED HDPE SHOWN) BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. HIS PRINT DISCLOSES SUBJECT MATTER IN WHICH - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT BUFORD, GA 30518 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. POSSESSION OF THIS PRINT DOES NOT CONFER. PHN (770) 932-2443 RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. Nyloplast FAX (770) 932-2490 ANSFER, OR LICENSE THE USE OF THE DESIGN OR SEE DRAWING NO. 7001-110-065. TECHNICAL INFORMATION SHOWN HEREIN - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO DDUCTION OF THIS PRINT OR ANY INFORMATION ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP NTAINED HEREIN, OR MANUFACTURE OF ANY 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL RTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM S FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012. DWG SIZE A SCALE 1:40 SHEET 1 OF 1 DWG NO. 7001-110-192 REV E

24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL





KANSAS CITY, MO 64114 www.glmv.com

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#### LEIGH + O'KANE MISSOURI COA #001644 LEE'S SUMMIT, MO, 64086

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KANSAS CITY, MO 64108 (816) 663-8700 PHONE

REVISIONS: # Description

HOLMES NUMBER

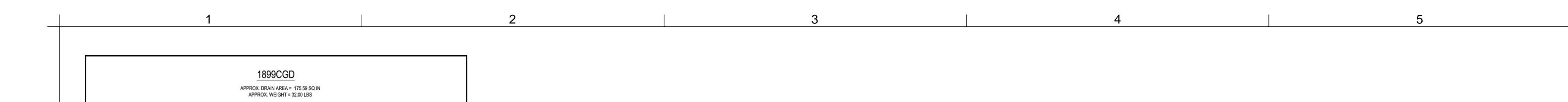
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**STORMWATER DETAILS** 

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3 12" INLINE DRAIN QUICK SPEC DETAIL

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NYLOPLAST 12" INLINE DRAIN: 2712AG \_ \_ X

18" MIN WIDTH GUIDELINE

8" MIN THICKNESS GUIDELINE

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR

GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE

DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS,

SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 12" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

GRATE OPTIONS LOAD RATING PART # DRAWING #

BUFORD, GA 30518

PHN (770) 932-2443

Nyloplast FAX (770) 932-2490 www.nyloplast-us.com

12 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

7003-110-025 REV E

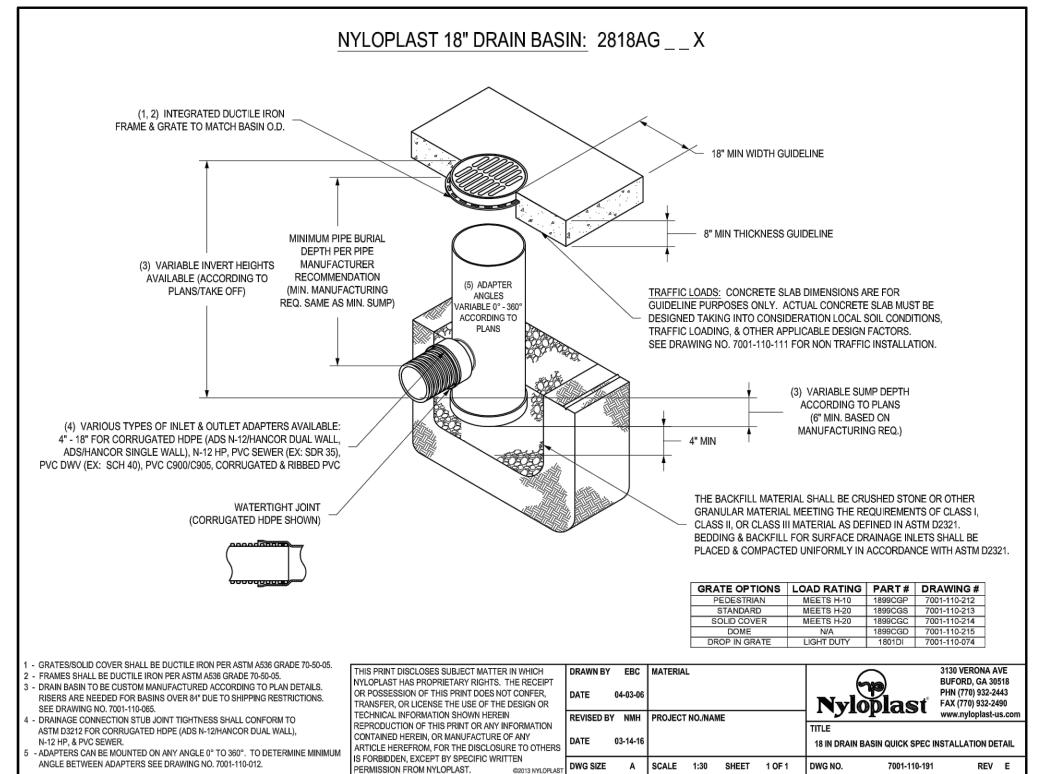
TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

(CORRUGATED HDPE SHOWN)

DWG SIZE A SCALE 1:20 SHEET 1 OF 1 DWG NO.

3099CGRDF & 3099CGRFH APPROX. GRATE DRAIN AREA = 232.87 SQ IN \*APPROX. WEIGHT WITH FRAME & HOOD = 344.00 LBS 2' X 3' CURB INLET DIAGONAL GRATE 3099CGRDF 24.25 27.25 ADJUSTMENT SLOTS 16 X SLOT Ø 1.00 THRU 2' X 3' CURB INLET 8.73 HIGHEST HOOD SETTING FRAME & HOOD 4.73 LOWEST HOOD SETTING DIMENSIONS ARE FOR REFERENCE ONLY TOP OF BASE PLATE TO TOP OF DRAIN BASIN ACTUAL DIMENSIONS MAY VARY DIMENSIONS ARE IN INCHES \*WEIGHT DOES NOT INCLUDE 24BASER: 2.83 GRATE MEETS H-20 LOAD RATING DUCTILE IRON BASE PLATE 30BASER: .44 QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 18BASER: APPROX. 133.50 LBS GRADE 70-50-05 24BASER: APPROX. 122.00 LBS PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT 30BASER: APPROX. 92.50 LBS LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-057 THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT SLOPE OF GRATE SURFACE IS 5.2% **BUFORD, GA 30518** CURB INLET FRAME INSIDE VOLUME IS APPROX 2.73 CU FT PHN (770) 932-2443 APPROX. DRAIN AREA OF GRATE & HOOD Nyloplast FAX (770) 932-2490 TRANSFER, OR LICENSE THE USE OF THE DESIGN OR LOWEST SETTING = 369.54 SQ IN TECHNICAL INFORMATION SHOWN HEREIN LOWEST + 1" SETTING = 402.41 SQ IN REPRODUCTION OF THIS PRINT OR ANY INFORMATION LOWEST + 2" SETTING = 435.29 SQ IN CONTAINED HEREIN, OR MANUFACTURE OF ANY 2 FT X 3 FT CURB INLET DIAGONAL GRATE ASSEMBLY LOWEST + 3" SETTING = 468.16 SQ IN ARTICLE HEREFROM. FOR THE DISCLOSURE TO OTHERS S FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN HIGHEST SETTING = 501.04 SQ IN DWG SIZE A SCALE 1:16 SHEET 1 OF 1 DWG NO.

2'x3' CURB INLET DIAGONAL GRATE ASSEMBLY



# 18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

# CURB INLET TO JUNCTION BOX

DIMENSIONS ARE FOR REFERENCE ONLY

LOCKING DEVICE AVAILABLE UPON REQUEST

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REINFORCING

BARS SIZE SPACING

ALL REINFORCEMENT IS

TO BE EPOXY COATED

QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05

18" DOME GRATE

CONCRETE ADJUSTMENT RING OR -

4" MINIMUM THCKNESS

W BARS -

DUCTILE IRON

SHEET 1 OF 1 DWG NO.

A SCALE 1:6

PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

ACTUAL DIMENSIONS MAY VARY

DIMENSIONS ARE IN INCHES

(1, 2) INTEGRATED DUCTILE IRON

MINIMUM PIPE BURIAL

DEPTH PER PIPE

MANUFACTURER

RECOMMENDATION

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER

CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321.

GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I,

BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE

PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05,

FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.

DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO

ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL),

DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY

SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL

INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

WITH THE EXCEPTION OF THE BRONZE GRATE.

N-12 HP, & PVC SEWER.

DIMENSIONS ARE IN INCHES

FRAME & GRATE TO MATCH BASIN O.D.

INVERT ACCORDING TO

PLANS/TAKE OFF

PLEASE CONSIDER THE ENVIRONMENT

BUFORD, GA 30518

FAX (770) 932-2490

7001-110-215

REF: 3 / C-530

REF: 1 / C-500

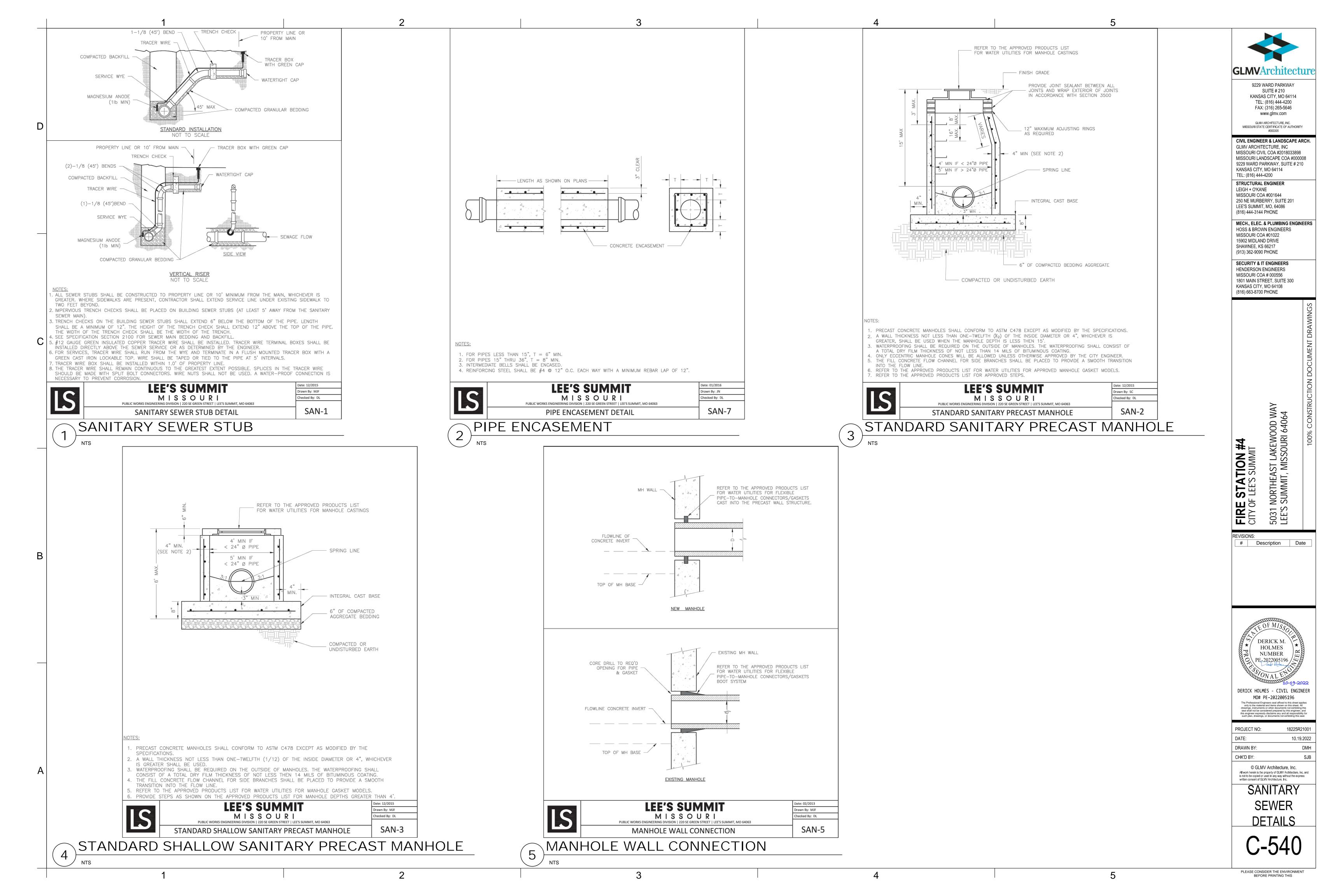
TYP. CONCRETE PAVING

- 12" LONG #4 BAR 12" O.C. EPOXY

TYP. 4 SIDES

GROUT INTO EXISTING STRUCTURE.

DWG SIZE A SCALE 1:30 SHEET 1 OF 1 DWG NO. 7001-110-191 REV E



2x2 SOUND HARDWOOD STAKE - SEE PLAN DETAIL FOR POSITIONING. DO NOT ALLOW STAKE TO PIERCE ROOTBALL. NOTCH STAKE FOR WIRE. POLYPROPYLENE TREE STRAP AT 2/3 TREE HEIGHT WITH NO. 12 GA. GALVANIZED WIRE. PROVIDE SUFFICIENT TENSION TO SUPPORT TREE BUT DO NOT GIRDLE TOP OF ROOTBALL AT 2" ABOVE FINISHED GRADE REMOVE TOP 1/3 OF BURLAP AND ROPE FROM BALL 3" DEPTH HARDWOOD MULCH. KEEP 4" AWAY FROM TRUNK. NOTE: ALL TREES, EXISTING AND PROPOSED, IN TURF AREAS FINISHED GRADE / SHALL HAVE 5' DIAM. MULCH RING. THIS DIMENSION EQUALS 1/2 THE DIAMETER OF THE ROOTBALL AT THE CENTERLINE OF ROOTBALL. 1/2 BALL DIA. PLACE TREE IN PLANTING POSITION, BACK FILL 1/3RD OR DEPTH, THEN REMOVE ALL TWINE AND BURLAP FROM TOP OF ROOTBALL. WIRE BASKET TO REMAIN IN PLACE, BEND TOP LOOPS DOWN, EXPOSE ROOT FLARE AT BASE OF TRUNK. PLANTING SOIL BACKFILL

**PREVAILING** 

WINDS

EVERGREEN TREE PLANTING

DECIDUOUS TREE PLANTING

PLANTING BED EDGING (NOT-

REF: 6/L-100

REQUIRED IN PLANTING BEDS

SURROUNDED BY PAVEMENT),

FINISH

GRADE

ROOT BALL

COMPACTED PLANTING SOIL

SHRUB PLANTING

MIXTURE ON WHICH TO POSITION SHRUB

SECTION

TOP OF TREE PIT (VARIES) TREE PIT EQUALS 2X DIAM. OF ROOTBALL AT CENTERLINE OF ROOTBALL BOTTOM OF TREE PIT (VARIES) ROOTBALL VARIES

2 X 2 SOUND HARDWOOD STAKE TO BE ANGLED APPROX. 30 DEGREES FROM VERTICAL AND DRIVEN 2'-0" MIN. INTO UNDISTURBED SOIL. PLACE STAKE ON WINDWARD SIDE OF TRUNK, I.E. IF PREVAILING WIND IS FROM THE N/NW, PLACE STAKE ON WEST SIDE OF TREE.

POLYPROPYLENE TREE STRAP ABOVE LOWEST BRANCHES WITH NO. 12 GA. GALVANIZED WIRE TIE ASSEMBLY

5' DIAM. MULCH RING AROUND ALL TREES IN TURF AREAS INCLUDING **EXISTING TREES** 

> 10. CONTRACTOR TO PROVIDE A 1-YEAR WARRANTY ON ALL INSTALLED PLANTINGS FROM POINT OF SUBSTANTIAL COMPLETION.

> > PLANT SCHEDULE

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 48

2. CONTRACTOR SHALL VERIFY ALL PLANT COUNTS, QUANTITIES AND AREAS

5. PLANTS CALLED OUT IN PLAN ARE CONSIDERED IN CLUSTERS EVEN IF NOT

7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISEASE AND PEST CONTROL

NEEDED AND CONTACT THE LANDSCAPE ARCHITECT IF THERE ARE ANY

WHEN TEMPERATURES ARE ABOVE 90°F OR BELOW 40°F AT THE TIME OF

9. PLANT MATERIAL SHALL NOT BE DELIVERED TO THE SITE NOR INSTALLED

PLANTING AND FORECASTED FOR A PERIOD OF 2 WEEKS AFTER

8. CONTRACTOR TO VERIFY, WITH SOIL ANALYSIS, THE SOIL AMENDMENT

6. CONTRACTOR SHALL MAINTAIN THE LANDSCAPE UNTIL SUBSTANTIAL

ATTACHED BY CONNECTING LINES. CALLOUTS HAVE TOTAL COUNTS NEEDED.

COMPLETION. MAINTENANCE WORK SHALL CONSIST OF APPLYING WATER,

AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO

IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.

ORDERING OR INSTALLING MATERIALS SPECIFIED.

QUANTITIES AND LABELS.

WEEDING, AND FERTILIZING.

INADEQUATE AMENITIES.

INSTALLATION.

DURING THE MAINTENANCE PERIOD.

3. SEE PLANT SCHEDULE FOR PLANT LEGEND AND QUANTITIES.

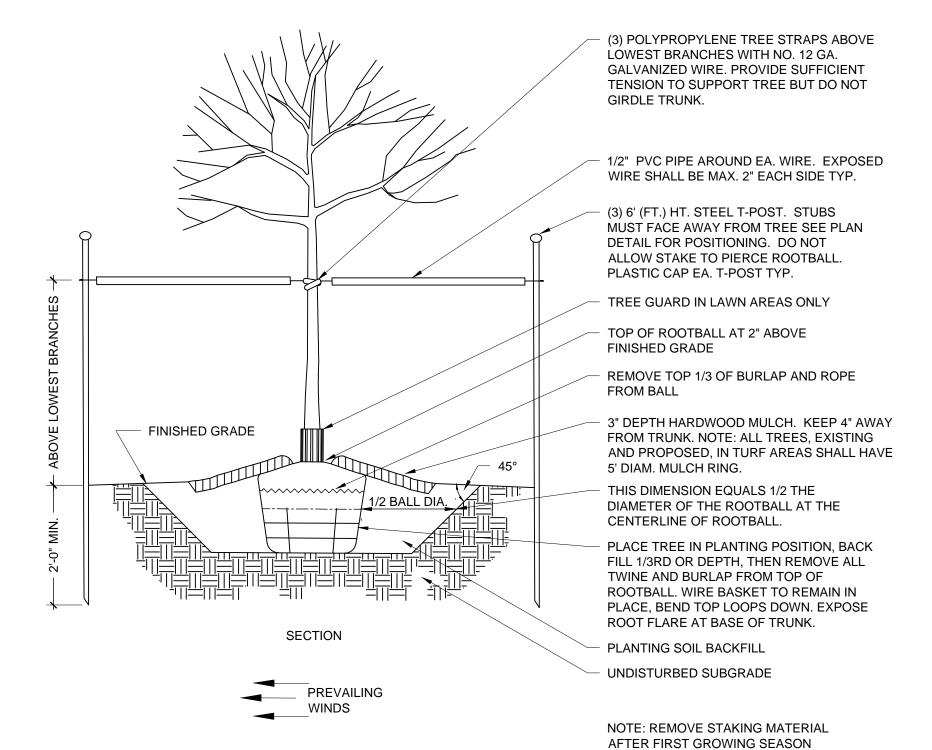
4. SYMBOLS INDICATED ON THE PLAN TAKE PRIORITY OVER WRITTEN

- ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY. FREE OF DISEASE AND HOURS ADVANCE NOTICE TO ALL COMPANIES/UTILITIES THAT HAVE FACILITIES INFESTATION, AND TRUE TO TYPE, VARIETY, SIZE SPECIFIED, AND FORM PER THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1, CURRENT VERSION), PUBLISHED BY THE AMERICAN NURSERYMEN'S ASSOCIATION.
  - 2. PLANT MATERIAL SHALL BE PLANTED AND MAINTAINED TO ASNS SPECIFICATIONS.
  - 3. CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
  - 4. NO SUBSTITUTIONS FOR VARIETY OR CULTIVAR SHALL BE ACCEPTED WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT.
  - 5. ALL TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY, PAYING ATTENTION TO EVEN SPACING IN THE ROW OR COVERAGE AREA OF THE INDIVIDUAL SPECIES AND HOW IT IS BEING USED.
  - 6. ALL PLANTING BEDS ABUTTING LAWN AREAS SHALL HAVE A CULTIVATED EDGE (SEE DETAIL, THIS SHEET).
  - 7. ALL PLANTINGS SHALL BE THOROUGHLY WATERED IN WITH A GARDEN HOSE, TWICE, THE SAME DAY AS INSTALLATION TO ELIMINATE AIR POCKETS IN THE BACKFILL.
  - 8. NO PLANTINGS SHALL BE PLACED CLOSER THAN 3' FROM THE BACK OF THE CURB TO ALLOW FOR VEHICLE BUMPER OVERHANG.
  - 9. PROPOSED TREES SHALL NOT BE PLACED OVER EXISTING OR PROPOSED UTILITY SERVICE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND UTILITY LOCATIONS AND HAVE THEM MARKED DURING TREE PLANTING OPERATIONS. IF UTILITY IS DAMAGED DURING PLANTING, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR AND OWNER OF UTILITY AND PAYING FOR REPAIR OF THE DAMAGED UTILITY.
  - 10. ALL PLANTING BEDS WILL HAVE 3-INCHES OF SHREDDED BROWN HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED.

# $==\pm\pm$ PREVAILING

EVERGREEN TREE STAKING

WINDS



NOTE: PRUNE ALL BROKEN AND DAMAGED

(SEE SPECS)

PLANTING SOIL BACKFILL

PLANTING SOIL BACKFILL

3" DEPTH HARDWOOD MULCH

REMOVE TOP 1/3 OF BURLAP

REMOVE CONTAINER AND SLASH

SIDES OF ROOTBALL WITH (4) TO

AND ROPE FROM BALL OR

UNDISTURBED SUBGRADE

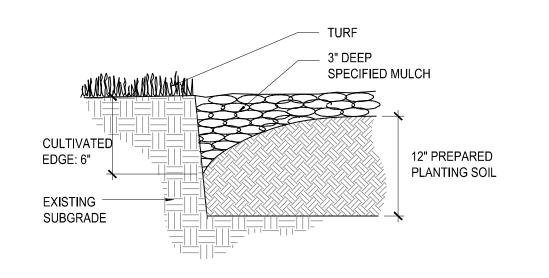
(5) 1" DEEP CUTS.

BRANCHES, AFTER PLANTING

UNDISTURBED SUBGRADE

TOP OF TREE PIT (VARIES) TREE PIT EQUALS 2X DIAM. OF ROOTBALL AT CENTERLINE OF ROOTBALL BOTTOM OF TREE PIT (VARIES) ROOTBALL VARIES (3) 6' (FT.) HT. STEEL T-POST PAINTED REFLECTIVE ORANGE. DO NOT ALLOW STAKE TO PIERCE ROOTBALL. PLASTIC CAP EA. T-POST TYP. 1/2" PVC PIPE AROUND EA. WIRE. EXPOSED WIRE SHALL BE MAX. 2" EACH SIDE TYP. (3) POLYPROPYLENE TREE STRAPS ABOVE LOWEST BRANCHES WITH NO. 12 GA. GALVANIZED WIRE. PROVIDE SUFFICIENT TENSION TO SUPPORT TREE BUT DO NOT GIRDLE TRUNK. PLAN 5' DIAM. MULCH RING AROUND ALL TREES IN TURF AREAS INCLUDING EXISTING TREES PREVAILING NOTE: REMOVE STAKING MATERIAL WINDS AFTER FIRST GROWING SEASON

# DECIDUOUS TREE STAKING



**CULTIVATED EDGE** 

LANDSCAPE SCHEDULE

<u>QTY</u>

<u>QTY</u>

CODE

BOTANICAL NAME

BOTANICAL NAME

Festuca arundinacea

Juniperus chinensis 'Gold Lace'

Juniperus horizontalis `Andorra`

90% Fescue, 10% Bluegrass Mix

CODE **BOTANICAL NAME COMMON NAME** CONT SIZE MA Malus x 'Adirondack' Adirondack Crabapple B & B 2.5" NW Nyssa sylvatica `Wildfire` Black Gum B & B 2.5" Zelkova serrata 'Musashino Musashino Sawleaf Zelkova B & B 2.5" **BOTANICAL NAME COMMON NAME** CONT SIZE PΒ Picea pungens `Baby Blue` Baby Blue Colorado Spruce 6` Ht TS 6` Ht Thuja occidentalis 'Smaragd' Emerald Green Arborvitae **SHRUBS** CODE <u>QTY</u> **COMMON NAME** CONT. <u>SPACING</u> BOTANICAL NAME 48" o.c. Cornus sericea `Artic Fire` Artic Fire Dogwood 5 gal Compact Burning Bush Euonymus alatus `Compactus` 72" o.c. 5 gal Hemerocallis x 'Stella de Oro' Stella de Oro Daylily Quart 18" o.c. 30" o.c. Hosta x 'First Frost' First Frost Hosta 2 gal Itea virginica `Little Henry` TM 2 gal 36" o.c. Virginia Sweetspire 24" o.c. Perovskia atriplicifolia `Little Spire` TM Little Spire Russian Sage 2 gal 48" o.c. Rosa x `Knockout` TM 2 gal CODE <u>QTY</u> BOTANICAL NAME **COMMON NAME** CONT. SPACING Ck Feather Reed Grass 36" o.c. Calamagrostis x acutiflora `Karl Foerster 3 gal. 18" o.c. Festuca glauca `Elijah Blue` Elijah Blue Fescue 1 gal. Prairie Munchkin Little Bluestem 24" o.c. Schizachyrium scoparium `Prairie Munchkin` 2 gal 30" o.c. Sporobolus heterolepis Prairie Dropseed 2 gal

**COMMON NAME** 

Gold Lace Juniper

Andorra Juniper

**COMMON NAME** 

Tall Fescue

CONT.

5 gal

2 gal

**TYPE** 

sod

<u>SPACING</u>

60" o.c.

48" o.c.

**GLMV**Architecture

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STATI( FIRE CITY OF

**IREVISIONS** # Description Date

KYLE WARD - LANDSCAPE ARCHITEC MO# PLA-2016002020

landscape architect expressly disclaims any and all responsi such plan, drawings, or documents not exhibiting this seal.

PROJECT NO: 18225R21001 DATE: 10.19.2022 DRAWN BY: KDW CHK'D BY: CDW

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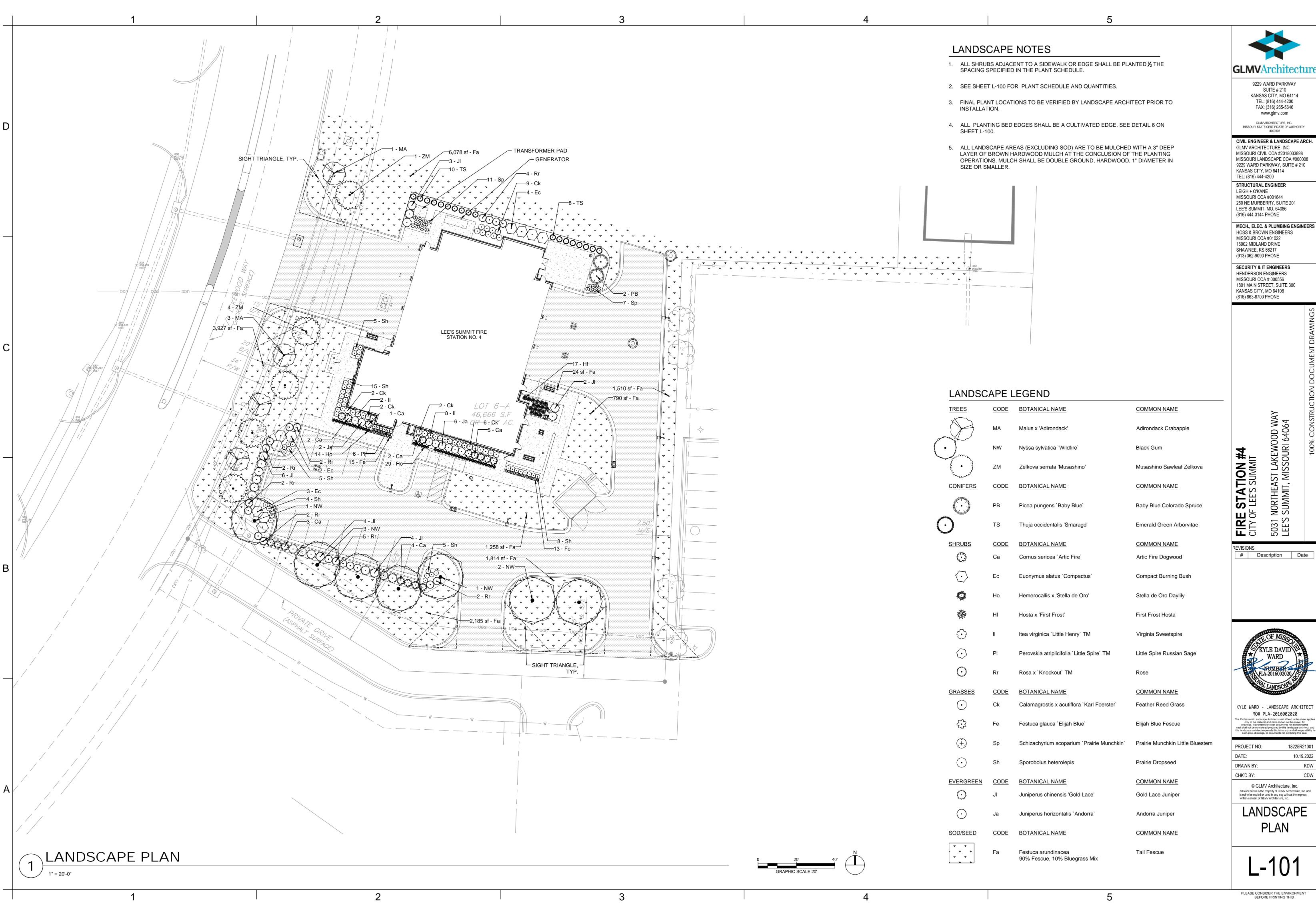
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LANDSCAPE

SCHEDULE

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

<u>EVERGREEN</u>



KYLE WARD - LANDSCAPE ARCHITECT

10.19.2022 KDW CDW

WORK SHALL CONFORM TO CITY OF LEES SUMMIT, MIS IGN LOADS ROOF LOAD (5 PSF NET 1. DEAD LOAD TO 2. DEAD LOAD BO 3. LIVE LOAD TOP 4. LIVE LOAD BOT ROOF LOAD (STORM SH 1. DEAD LOAD 2. LIVE LOAD FLOOR LOADS 1. DEAD LOAD 2. LIVE LOAD 2. LIVE LOAD 4. LIVE LOAD	SOURI.  UPLIFT) CHORD CHORD CHORD	DE AS ADOPTED AND AMENDED BY	11.		ORCING STEEL		
IGN LOADS ROOF LOAD (5 PSF NET 1. DEAD LOAD TO 2. DEAD LOAD BO 3. LIVE LOAD BOT 4. LIVE LOAD BOT ROOF LOAD (STORM SH 1. DEAD LOAD 2. LIVE LOAD FLOOR LOADS 1. DEAD LOAD	UPLIFT) CHORD CHORD CHORD			_			
ROOF LOAD (5 PSF NET  1. DEAD LOAD TO  2. DEAD LOAD BO  3. LIVE LOAD BOT  4. LIVE LOAD BOT  ROOF LOAD (STORM SH  1. DEAD LOAD  2. LIVE LOAD  FLOOR LOADS  1. DEAD LOAD	CHORD CHORD CHORD			A.	ALL REINFORCING SHALL BE ASTM A615 GRADE 60, EXCE	EPT WELDED REINFORCING WHICH	
<ol> <li>DEAD LOAD BO</li> <li>LIVE LOAD TOP</li> <li>LIVE LOAD BOT</li> <li>ROOF LOAD (STORM SH</li> <li>DEAD LOAD</li> <li>LIVE LOAD</li> <li>FLOOR LOADS</li> <li>DEAD LOAD</li> </ol>	T. CHORD CHORD			B.	SHALL BE ASTM A706 GRADE 60. ALL WELDED WIRE FABRIC SHALL BE ASTM A82 COLD DR	RAWN WIRE.	
<ol> <li>LIVE LOAD TOP</li> <li>LIVE LOAD BOT</li> <li>ROOF LOAD (STORM SH</li> <li>DEAD LOAD</li> <li>LIVE LOAD</li> <li>FLOOR LOADS</li> <li>DEAD LOAD</li> </ol>	CHORD	20 PSF 5 PSF		C.	ALL ACCESSORIES FOR SUPPORTING REINFORCING SHAL	L BE GALVANIZED OR HAVE PLASTIC-	
ROOF LOAD (STORM SH 1. DEAD LOAD 2. LIVE LOAD FLOOR LOADS 1. DEAD LOAD	CLIODE	25 PSF		D.	COATED FEET. PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL	WALL AND FOOTING CORNERS EQUAL	
<ol> <li>DEAD LOAD</li> <li>LIVE LOAD</li> <li>FLOOR LOADS</li> <li>DEAD LOAD</li> </ol>		0 PSF (U.N.O)		_	TO HORIZONTAL BARS.	AND CURRORTED IN ACCORDANCE	
FLOOR LOADS 1. DEAD LOAD		SELF PSF		E.	REINFORCING SHALL BE DETAILED, FABRICATED, PLACE, WITH ACI 315, LATEST APPLICABLE EDITION.	, AND SUPPORTED IN ACCORDANCE	
<ol> <li>DEAD LOAD</li> </ol>		170 PSF		F.	STANDARD COVERAGE OF REINFORCING SHALL BE AS FO	DLLOWS UNLESS NOTED OTHERWISE.	
2 ΙΤVΕΙΩΔΩ		55 PSF			<ol> <li>PERMANENTLY EXPOSED TO WEATHER</li> <li>A. CAST AGAINST EARTH</li> </ol>	3"	
STAIR LOADS		100 PSF			B. IN CONTACT WITH WATER	3" 2"	
<ol> <li>DEAD LOAD</li> </ol>		40 PSF			C. FORMED  2. NOT EXPOSED TO EARTH OR WEATHER	2	
<ol><li>LIVE LOAD ROOF SNOW LOAD</li></ol>		100 PSF			A. SLABS AND WALLS	3/4"	
<ol> <li>FLAT ROOF SNO</li> </ol>		24 PSF		G.	B. BEAMS AND COLUMNS SPLICE LENGTH	1 1/2"	
<ol> <li>SNOW EXPOSUR</li> <li>SNOW LOAD IM</li> </ol>	E FACTOR, C <sub>E</sub> PORTANCE FACTOR, I	0.9 1.2			1. 3000 PSI CONCRETE	FF JL (DAD DIAMETED)	
<ol><li>THERMAL FACT</li></ol>	•	1.1			A. NON-COATED B. EPOXY COATED	55 db (BAR DIAMETER) 83 db	
<ol><li>DRIFTING WIND LOADS</li></ol>		PER CODE			2. 4000 PSI CONCRETE		
<ol> <li>BASIC WIND SP</li> </ol>	EED (3 SECOND GUST)	122 MPH			A. NON-COATED B. EPOXY COATED	48 db 72 db	
<ol> <li>WIND IMPORTA</li> <li>BUILDING CATE</li> </ol>		1.0 IV			3. 5000 PSI CONCRETE	42.41	
<ol><li>WIND EXPOSUR</li></ol>	Ε	В			A. NON-COATED B. EPOXY COATED	43 db 64 db	
<ol><li>COMPONENTS A SEISMIC LOADS</li></ol>	ND CLADDING DESIGN VALUE ( U.N	.O.) 25 PSF		Н.	REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE S	SHALL NOT BE FIELD BENT, EXCEPT AS	
1. CATEGORY		IV			SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR RECORD.	PERMITTED BY THE ENGINEER OF	
2. S <sub>S</sub> =		0.099		I.	ALL REINFORCEMENT AND EMBEDDED ITEMS INCLUDING		
3. S <sub>1</sub> = 4. S <sub>DS</sub> =		0.068 0.105			ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SE BEFORE CONCRETE IS PLACED. NEITHER REINFORCEMEN		
5. S <sub>D1</sub> =	TANCE EACTOR T	0.108			PLACED INTO FRESHLY PLACED CONCRETE UNLESS APPR		
<ul><li>6. SEISMIC IMPOR</li><li>7. SITE CLASS</li></ul>	TANCE FACTOR, I	1.5 D	12.	MASO			
8. SEISMIC DESIG		C		A. B.	MASONRY UNIT COMPRESSIVE STRENGTH (f'm) = 1500 PS LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEA		
	RESISTING SYSTEMS; STEEL ORDIN IFICATION COEFFICIENT, R	IARY MOMENT FRAMES 3 1/2		υ.	OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAT		
<ol><li>SEISMIC RESPO</li></ol>	NSE COEFFICIENTS, Cs	0.045		C	EXTENDING PAST OPENINGS A MIN. OF 2'-0". GROUT ALL REINFORCED CELLS AND CELLS BELOW GRAD	• •	
<ul><li>12. DESIGN BASE S</li><li>13. ANALYSIS PROC</li></ul>	HEAR EDURE; EQUIVALENT LATERAL FOR(	22 K CE PROCEDURE.		C. D.	PLACE A BOND BEAM WITH/ (2) #5 CONTINUOUS AT THE		
WIND LOADS - STORM S				E.	VERTICALLY. REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AN		
<ol> <li>SHELTER TYPE</li> <li>BASIC WIND SP</li> </ol>	EED ( 3 SECOND GUST)	TORNADO SHELTER 250 MPH		L.	O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, RI	EINFORCE WALL CORNERS AND JAMBS	
<ol><li>WIND IMPORTA</li></ol>	NCE FACTOR, I	1.0		F.	OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAS' BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSO	T OPENINGS A MIN. OF 2'-0".	
<ol> <li>BUILDING CATE</li> <li>WIND EXPOSUR</li> </ol>		IV C				DE OF DEGIC	
6. INTERNAL PRES	SURE COEFFICIENT; GCPi	+/- 0.55	13.	STRUC A.	TURAL STEEL ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATE	D, AND ERECTED IN ACCORDANCE	
	NTS & CLADDING (U.N.O.) ENTS & CLADDING (U.N.O.)	REF. S-307 REF. S-307		7	WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUIL		
<ol><li>WIND UPLIFT</li></ol>	, ,	163 PSF		В.	AND AISC CODE OF STANDARD PRACTICE. ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A99	22 GRADE 50 UNLESS NOTED	
<ul><li>10. TOPOGRAPHIC</li><li>11. DIRECTIONALIT</li></ul>	·	1.0 1.0			OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL	BE ASTM A36 UNLESS NOTED	
12. THE WIND DES	GN CONFORMS TO THE PROVISIONS	S OF THE ICC/NSSA STANDARD FOR		C.	OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HE	·	
	D CONSTRUCTION OF STORM SHEL' NOT LOCATED IN A FLOOD ZONE.	TERS PER THE ICC 500 2020.			ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø		
TRACTOR SHALL FIELD VER	FY ALL EXISTING DIMENSIONS PRICE	OR TO FABRICATION.		D.	CONNECTIONS ONLY. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE	FIELD SHALL BE PERFORMED BY A	
	TIONS FOR ADDITIONAL REQUIREM	ENTS. RAWINGS, AND/OR SHOP DRAWINGS			QUALIFIED WELDER AND SHALL CONFORM TO THE CURRI	ENT REQUIREMENTS OF A.W.S.	
IFY THE ENGINEER OF RECO		CAWINGS, AND/OR SHOP DRAWINGS		E.	SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PROTHERWISE.	REFERRED UNLESS NOTED	
	N DRAWINGS FROM ALL OTHER DIS ED TO THE STRUCTURAL WORK AND			F.	ALL STEEL EXPOSED TO THE EXTERIOR, EXHIBITS, POOLS		
	RALLY STABLE UNTIL ALL CONNECT			G.	GALVANIZED AND PAINTED PER ARCHITECT UNLESS NOT THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS		
•	ERIOR LOAD-BEARING WALLS ARE ( ENGTHS. CONTRACTOR IS SOLELY R				MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIR	RED TO PROVIDE SUPPORT	
		EMPORARY BRACING SYSTEMS ARE			(STABILIZATION) AROUND AND THROUGHOUT THE BUILD FOR ADDITIONAL MISC. STEEL DETAILS.	DING. SEE ARCHITECTURAL DRAWINGS	
	UCTURAL WORK IS COMPLETE. URING CONSTRUCTION TO RESIST	FORCES SLICH AS WIND AND	14.	COLD	FORMED STEEL		
ALANCED LOADS DUE TO CO	NSTRUCTION. DO NOT BACKFILL U			Α.	ALL LIGHT GAGE METAL FRAMING AND CONNECTIONS FABRICATED, AND ERECTED IN ACCORDANCE WITH A		
S. NDATIONS					OF COLD FORMED STEEL STRUCTURAL MEMBERS) (A LIGHTWEIGHT STEEL FRAMING SYSTEMS MANUAL).	AND NAAMM ML/SFA540	
	IGNED TO BEAR ON 2000 PSF FOR S NGS ON SOIL PER GEOTECH REPOR'	STRIP FOOTINGS ON SOIL AND 2000		B.	ALL LIGHT GAGE METAL FRAMING SHOWN IN THESE I		
OMEGA GEOTECHS.	NGS ON SOIL PER GEOTECH REPOR	1 # AOG 21-120E-1 D1 ALPHA		C.	ACCORDANCE WITH THE STEEL STUD MANUFACTURE ALL STRUCTURAL MEMBERS SHALL BE FORMED FRO		
		UNDATIONS THAT ARE LOCATED				655 STEEL MATERIAL AND SHALL	
		OIL CONDITIONS THAT ARE IN		D.		S D1.3 - LATEST EDITION,	
				F	STRUCTURAL WELDING CODE, SHEET STEEL. SUGGESTED WELD METAL AND PROCESS FOR SHOP	WELDING ARE 70 KSI WELD METAL	
	A QUESTION OF BEAKING CAPACIT	Υ.		∟.	STRENGTH. SUGGESTED METHODS FOR FIELD WELD	,	
	TE CONSTRUCTION SHALL CONFOR	M TO LATEST APPLICABLE		F		OR EXCEED THE BASE STEEL	
AMERICAN CONCRETE I	ISTITUTE DOCUMENTS, ACI-301, 30				THICKNESS OF THE THINNEST CONNECTED PART UN	LESS NOTED OTHERWISE	
		OP A 28 DAY COMPRESSIVE		G.		,	
STRENGTH AND HAVE M	AXIMUM WATER/CEMENT RATIOS A	S FOLLOWS:		H.	SEQUENCING OF WELDS SHALL BE SO AS TO AVOID I	DISTORTION OF MEMBERS.	
				l.			
<ol><li>ELEVATED COM</li></ol>	POSITE SLAB:	4000 PSI (w/c MAX 0.42)			PERPENDICULAR MEMBERS OR AS REQUIRED ON AN	GULAR FIT AGAINST ABUTTING	
					FASTENED.		
IT IS THE INTENT OF T	ESE CONCRETE SPECIFICATIONS T	HAT THE CONTRACTOR SUPPLY		J.			
				K.	TOP AND BOTTOM TRACKS TO MATCH GAGE OF STUI	D.	
WORKABILITY FOR CON	CRETE MIXES WILL REQUIRE THE A			L.			
		DMIXTURES.	15	DUCT (	,		
CONCRETE SLUMP SHAL	$_{ t L}$ BE A MAXIMUM OF 4" +/- 1" (ASTN	1 C-145) AS DELIVERED IN THE	15.	POST (		O FOR ANCHORS SHOWN ON THE	
					DRAWINGS. IF CAST IN PLACE ANCHOR IS DETERMINED 1	TO BE OUT OF TOLERANCE OR	
THROUGH THE USE OF A	IN EXTERNAL MEASURING DEVICE (	I.E. 5 GALLON BUCKET).					
	·	O/OR DEICING CHEMICAL SHALL		D	ANCHORS.		
CHAMFER ALL EXPOSED	CORNERS OF CONCRETE WALLS, 3/			ĸ.			
ALL CONTROL JOINTS II	I CONCRETE SLABS-ON-GRADE SHAI	L BE CUT TO 1/3 OF DEPTH WHEN			1. 1/2" Ø ANCHORS	5 3/4"	
PROCESS. CUT JOINTS A	S SOON AS APPLICABLE PER PROCE	SS USED AFTER CONCRETE HAS			<ol> <li>5/8" Ø ANCHORS</li> <li>3/4" Ø ANCHORS</li> </ol>	5 3/4" 5 3/4"	
	•			C.	EPOXY ANCHORS IN HOLLOW MASONRY SHALL USE HILTI	•	
	S AS POSSIBLE. LENGTH TO WIDTH	RATIOS OF JOINTED PANELS SHALL		D.		ADHESIVE. MINIMUM EMBEDMENT FOR	
-	RDINATE LOCATIONS OF CONTROL	JOINTS WITH ARCHITECT.		-	ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.		
NOT EXCEED 1.5:1. COO					1. 1/2" Ø ANCHORS 2. 5/8" Ø ANCHORS	4 1/4" 5"	
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WA	WHERE POSSIBLE. CONSTRUCTION	JOINTS MAY BE PLACED IN LIEU OF			3. 3/4" Ø ANCHORS	6 5/8"	
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WA OTHERWISE. LOCATE JO CONCEALED LOCATIONS				E.	4. 1" Ø ANCHORS EMBEDMENT DEPTH SHALL BE DEFINED AS THE DISTANC	8 1/4" E FROM THE SURFACE OF THE LOAD-	
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WA OTHERWISE. LOCATE JO CONCEALED LOCATIONS CONTROL JOINTS AT CO JOINTS WITH ARCHITEC					BEARING BASE MATERIAL TO THE DEEPEST PART OF THE		
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WA OTHERWISE. LOCATE JO CONCEALED LOCATIONS CONTROL JOINTS AT CO JOINTS WITH ARCHITEC PRIOR TO PLACING CON	CRETE IN ANY LOCATION, IT IS TH	I JIVIVI I ELLI VIII. I JIVIENICII VRIC		F.		CLEANING, DEPTH. AND ANCHOR	
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WA OTHERWISE. LOCATE JO CONCEALED LOCATIONS CONTROL JOINTS AT CO JOINTS WITH ARCHITEC PRIOR TO PLACING CON CONTRACTOR TO HAVE	CRETE IN ANY LOCATION, IT IS THE THOROUGHLY CHECKED AND COOR	•				,,	
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WA OTHERWISE. LOCATE JO CONCEALED LOCATIONS CONTROL JOINTS AT CO JOINTS WITH ARCHITEC PRIOR TO PLACING CON CONTRACTOR TO HAVE ELEVATIONS, OPENINGS IN THE EVENT ERRORS,	CRETE IN ANY LOCATION, IT IS THE THOROUGHLY CHECKED AND COOR , RECESS, AND BLOCKOUTS AS SHO CONFLICTS, OR OMISSIONS EXIST,	WN ON ANY CONTRACT DRAWINGS. IT SHALL BE THE CONTRACTOR'S					
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WAY OTHERWISE. LOCATE JOINTS OF CONCEALED LOCATIONS CONTROL JOINTS AT COC JOINTS WITH ARCHITECT PRIOR TO PLACING CONTRACTOR TO HAVE ELEVATIONS, OPENINGS IN THE EVENT ERRORS, RESPONSIBILITY TO COCACTION.	CRETE IN ANY LOCATION, IT IS THE THOROUGHLY CHECKED AND COOR , RECESS, AND BLOCKOUTS AS SHO CONFLICTS, OR OMISSIONS EXIST, NTACT THE ARCHITECT OR ENGINE	WN ON ANY CONTRACT DRAWINGS. IT SHALL BE THE CONTRACTOR'S ER FOR NECESSARY CORRECTIVE		G.	EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENG		
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WAY OTHERWISE. LOCATE JOINTS AT CONCEALED LOCATIONS CONTROL JOINTS AT COMPANY OF PRIOR TO PLACING CONTRACTOR TO HAVE ELEVATIONS, OPENINGS IN THE EVENT ERRORS, RESPONSIBILITY TO CONCEACTION.	CRETE IN ANY LOCATION, IT IS THE THOROUGHLY CHECKED AND COOR , RECESS, AND BLOCKOUTS AS SHO CONFLICTS, OR OMISSIONS EXIST,	WN ON ANY CONTRACT DRAWINGS. IT SHALL BE THE CONTRACTOR'S ER FOR NECESSARY CORRECTIVE		G.	EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENG THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDI INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, (	E EVALUATION REPORTS FROM THE	
NOT EXCEED 1.5:1. COC CONTROL JOINTS IN WAY OTHERWISE. LOCATE JOINTS AT CONCEALED LOCATIONS CONTROL JOINTS AT COMPANY OF PRIOR TO PLACING CONTRACTOR TO HAVE ELEVATIONS, OPENINGS IN THE EVENT ERRORS, RESPONSIBILITY TO COMPACTION.  EMBEDDED ITEMS ARE PLACING CONCRETE.  ANCHOR RODS AND ANGERORS	CRETE IN ANY LOCATION, IT IS THE THOROUGHLY CHECKED AND COOR , RECESS, AND BLOCKOUTS AS SHO CONFLICTS, OR OMISSIONS EXIST, NTACT THE ARCHITECT OR ENGINE TO BE FURNISHED AND INSTALLED IN SHOR BOLTS SHALL BE HELD IN PLA	WN ON ANY CONTRACT DRAWINGS. IT SHALL BE THE CONTRACTOR'S ER FOR NECESSARY CORRECTIVE BY THE CONTRACTOR PRIOR TO CE WITH A RIGID TEMPLATE		G.	EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENG THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDI	E EVALUATION REPORTS FROM THE	
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PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE	CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.  RETE  CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS. ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.  ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:  1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (W/c MAX 0.45) 2. SLAB ON GRADE: 4000 PSI (W/c MAX 0.42) 3. ELEVATED COMPOSITE SLAB: 4000 PSI (W/c MAX 0.42) 4. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET). CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WEAT-VENTY PROYECUS AND 1/4 OF DEPTH WHEN USING WEAT-VENTY PROYECUS AND 1/4 OF DEPTH WHEN USING SMELY-ENTRY DAY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CON	WITHIN THE FOOTPRINT OF THE NEW BUILDING. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.  RETE  CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:  1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (W/c MAX 0.42) 4. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES. CONCRETE BLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET). CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTRAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.  15. CHAMFER ALL EXPOSED CONNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLODGING AGGREGATE, OR USE A KEYED COLD JOINT. CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 22S SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WITH HAEN USINS	CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.  E.  RETE  CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS: 1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLLUMS: 2. SLAB ON GRADE: 3. ELEVATED COMPOSITE SLAB: 4000 PSI (w/c MAX 0.42) 4. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN RESEMILY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING CHEMICAL ADMINITURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMINITURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMINITURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL ADMINITURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL ADMINITURES. CONCRETE ENSOSED TO WEATHER, PARKED VEHICLES, AND/OR DEFICING CHEMICAL SHALL CONTAIN 6% (4/- 1%) © INTRAINED AS POPEN WHEN SHALL BROWNED THE PROCESS. USE DEFINENCE. ALL CONTROL JOINTS IN CONCRETE SHESS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLODGING AGGREGATE, OR USE A KEYED COLD JOINT. CONTAIL THE ADMINITURE. COST ON THE SECON OF THE STATE OF THE MINISH AS CLOSE TO SQUARE AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAIN	CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND POUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING. CONTRACTOR SHALL NOTITY ENIGHER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  ET PROPERTY AND THERE IS A QUESTION OF BEARING CAPACITY.  CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE  CAST-IN-PLACE CONCRETE CONTRICTION SHALL CONFORM TO LATEST APPLICABLE  CAST-IN-PLACE CONCRETE CONTRICTION SHALL CONFORM TO LATEST APPLICABLE  CAST-IN-PLACE CONCRETE CONTRICTION SHALL DEVELOP A 2B DAY COMPRESSIVE  STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:  STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:  1. FOOTINGS, GRADE BEARS, WALLS, BEARN, COLUMNS:  2. SLAB ON GRADE:  3. SAB ON GRADE:  3. SAB ON GRADE:  4. SEQUENCINO OF WELDS SHALL BE SO AS TO AVOID THE CONCRETE WITH SHALL DO PROFIT OF A DEVELOPMENT OF THE LOOP DEST CONCRETE WITH SHALL DO PROFIT OF A DEVELOPMENT OF THE LOOP DEST CONCRETE WITH SHALL DO PROFIT OF A DEVELOPMENT OF THE LOOP DEST CONCRETE WITH SHALL DO PROFIT OF A DEVELOPMENT OF THE LOOP DEST CONCRETE WITH SHALL DO PROFIT OF A DEVELOPMENT OF THE LOOP DEST CONCRETE WITH SHALL DO PROFIT OF A DEVELOPMENT OF THE LOOP DEST CONCRETE WITH SHALL DO PROFIT OF THE LOOP DEST CONCRETE WITH SHALL DESTROY AND SHALL BE PROFITED ON THE PLACE OF THE LOOP OF TH	CONTING CORP. SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTINGS OF THE REQUIREMENTS OF ASTIM A-BASS STEEL MATERIAL AND SHALL WORK AND THERE IS A QUESTION OF BEARING CAPACITY.  STEEL AMERICAN CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI 303, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL CONCRETE LUNGS IN THE CONTRACTOR SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI 303, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL CONCRETE LUNGS IN THE CONTRACT OR SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE LUNGS IN THE CONTRACT OR SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AND SHALL MATERIAL AND SHALL AND SHALL SHALL BE RED OF A SHALL BE PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNT AND A PROCESS OF AS PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE RECOUNTS AND ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE PROVIDED AT ALL REACTION POINTS, ALL CONCRETE LUNGS IN THE PROVIDED AT ALL REACTION POINTS, ALL CO

STRUCTURAL ENGINEER SITE OBSERVATIONS THE CONTRACTOR. 17. SUBMITTALS DRAWINGS. STRUCTURAL STEEL LIGHT GAGE METAL FRAMING COLD FORMED ROOF, FLOOR JOISTS AND JOIST GIRDERS PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS. SPECIAL INSPECTIONS THE FOLLOWING MINIMUM ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE. LOCAL CITY MAY REQUIRE ADDITIONAL SPECIAL INSPECTIONS. CONCRETE PLACING CONCRETE REINFORCING STEEL BOLTING STEEL WELDING BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS ANCHOR RODS ROOF DIAPHRAGM ATTACHMENT MASONRY SOIL VERIFICATION 10. STEEL FRAME THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR AN OTHER PERSONS PERFORMING ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF LEIGH & O'KANE L.L.C. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF A. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE FOLLOWING ITEMS. LIGHT GAGE METAL FRAMING COLD FORMED BAR JOISTS CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS. CONCRETE MIX DESIGN AND MATERIALS CONCRETE REINFORCING STEEL MASONRY REINFORCING STEEL

> CENTER LINE CLR. CLEAR COL. COLUMN CONC. CONCRETE CONN. CONNECTION CONT. CONTINUOUS CONTROL JOINT DET. DETAIL DIAMETER DIA. DIM. DIMENSION DWG(S) DRAWING(S) EACH ELEV. **ELEVATION ELEVATION EQUAL** EQUIP. **EQUIPMENT** EXIST. **EXISTING** EXT. **EXTERIOR** FAR SIDE FINISH FLOOR FTG. FOOTING FOUND. FOUNDATION GALV. GALVANIZED GYP. GYPSUM H.S. HEADED STUD HIGH HORIZ. HORIZONTAL INSUL. INSULATION INTERIOR LOC. LOCATION LONG LEG HORIZONTAL LLO LONG LEG OUT LONG LEG VERTICAL LONG. LONGITUDINAL MSRY. MASONRY MAX. MAXIMUM MECH. MECHANICAL MINIMUM MIRRORED NEAR SIDE NOT APPLICABLE N.T.S. NOT TO SCALE

> > OPNG.

REINF.

REQ'D

SCHED.

TRANS.

U.N.O.

VERT.

SEC.

SHT.

STANDARD ABBREVIATIONS

ANCHOR BOLT

ALTERNATE

ARCHITECT

ΑT

BEAM

BOTTOM

**BOTTOM OF** 

ON CENTER

OPENING PLATE

RADIUS REFERENCE

REINFORCING

REQUIRED

SCHEDULE

SECTION

SHEET

SIMILAR

SQUARE

STEEL

TOP OF

TYPICAL

VERTICAL WITH WITHOUT

STAINLESS STEEL

TOP & BOTTOM

TRANSVERSE

UNLESS NOTED OTHERWISE

BUILDING

ARCH.

вот.

B.O.

BLDG.



9229 WARD PARKWAY SUITE # 210 KANSAS CITY, MO 64114 TEL: (816) 444-4200 FAX: (316) 265-5646 www.glmv.com GLMV ARCHITECTURE, INC. MISSOURI STATE CERTIFICATE OF AUTHORITY

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MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE SHAWNEE, KS 66217 (913) 362.9090

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FIRE STATIC CITY OF LEE'S SU # Description

# NO

JORDAN M. BENNETT PE-2022019960

18225R21001 PROJECT NO: 10.19.2022 DRAWN BY: CHK'D BY:

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= EXISTING IN PLAN AND SECTION = GRANULAR FILL IN SECTION = GRATING IN PLAN AND SECTION = GROUT IN SECTION = INSULATION IN SECTION = OPENINGS IN PLAN = PLYWOOD IN SECTION = SNOW DRIFT LOADING IN PLAN = STEEL IN SECTION = TOPPING IN SECTION = WOOD END GRAIN IN SECTION

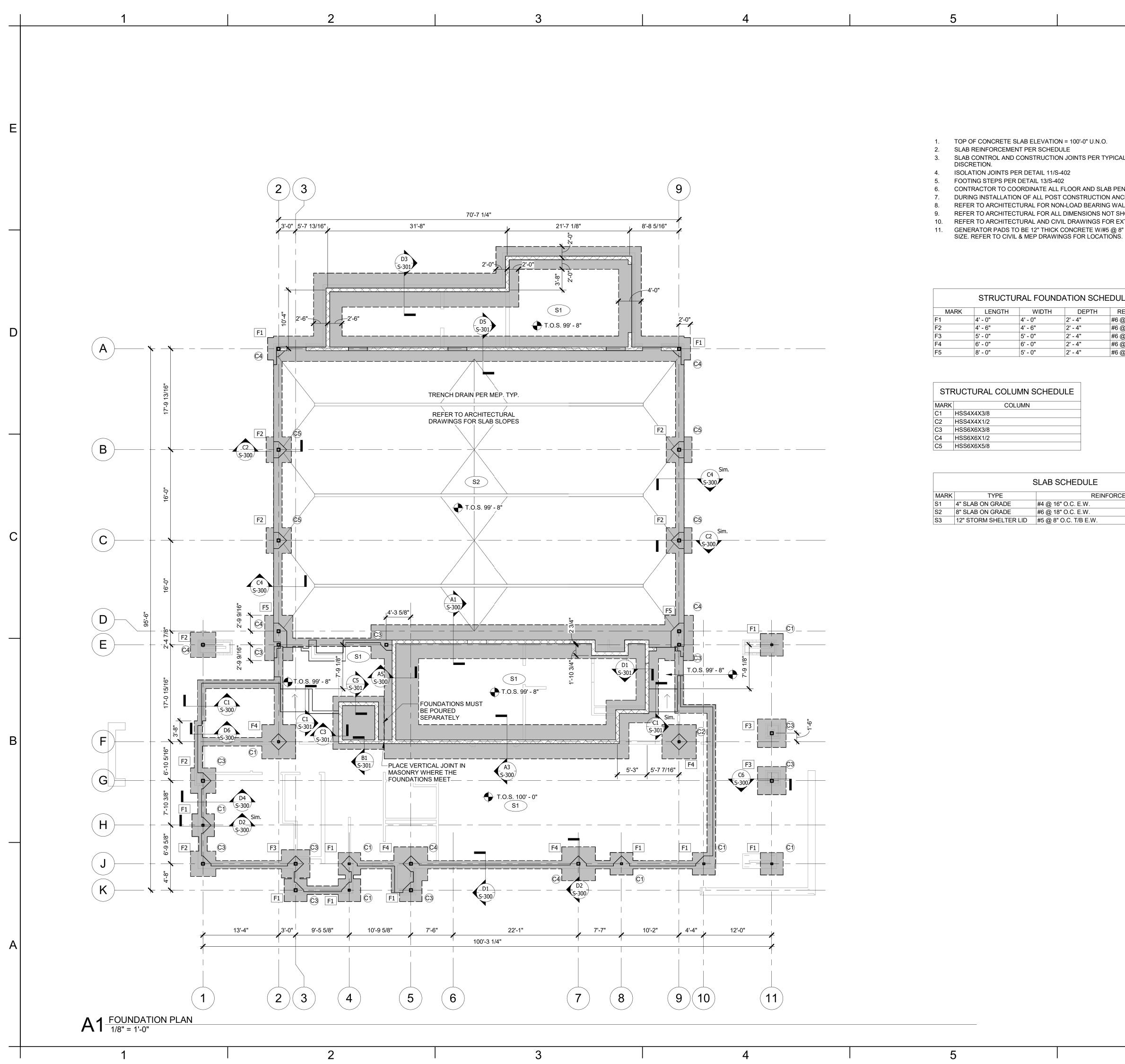
= WOOD FACE GRAIN IN SECTION

**HATCH PATTERN KEY** 

= CONCRETE IN SECTION

= EARTH IN SECTION

= EPOXY IN SECTION





- TOP OF CONCRETE SLAB ELEVATION = 100'-0" U.N.O.
  - SLAB REINFORCEMENT PER SCHEDULE
- SLAB CONTROL AND CONSTRUCTION JOINTS PER TYPICAL DETAILS. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S
- ISOLATION JOINTS PER DETAIL 11/S-402
- CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
- DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVIOD ALL REINFORCING.
- REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
- REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
- REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR RETAINING WALL AND RAMP LOCATION AND ELEVATION INFORMATION.
- GENERATOR PADS TO BE 12" THICK CONCRETE W/#5 @ 8" O.C. EACH WAY TOP AND BOTTOM, REFER TO MANUFACTURER'S INFORMATION FOR REQUIRED PAD

STRUCTURAL FOUNDATION SCHEDULE						
MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT		
F1	4' - 0"	4' - 0"	2' - 4"	#6 @8" O.C. EW TB		
F2	4' - 6"	4' - 6"	2' - 4"	#6 @8" O.C. EW TB		
F3	5' - 0"	5' - 0"	2' - 4"	#6 @8" O.C. EW TB		
F4	6' - 0"	6' - 0"	2' - 4"	#6 @8" O.C. EW TB		
F5	8' - 0"	5' - 0"	2' - 4"	#6 @8" O.C. EW TB		

### STRUCTURAL COLUMN SCHEDULE

MARK		COLUMN	
C1	HSS4X4X3/8		
C2	HSS4X4X1/2		
C3	HSS6X6X3/8		
C4	HSS6X6X1/2		
C5	HSS6X6X5/8		

SLAB SCHEDULE					
MARK	TYPE	REINFORCEMENT			
S1	4" SLAB ON GRADE	#4 @ 16" O.C. E.W.			
S2	8" SLAB ON GRADE	#6 @ 18" O.C. E.W.			
00	40" OTO DIA OLIEL TED LID	1/5 O 01 O O T/D 5 M			



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MISSOURI COA #001644 250 NE MULBERRY, SUITE 201 LEE'S SUMMIT, MO 64086 (816) 444-3144

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**SECURITY & IT ENGINEERS** HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108 (816) 663-8700

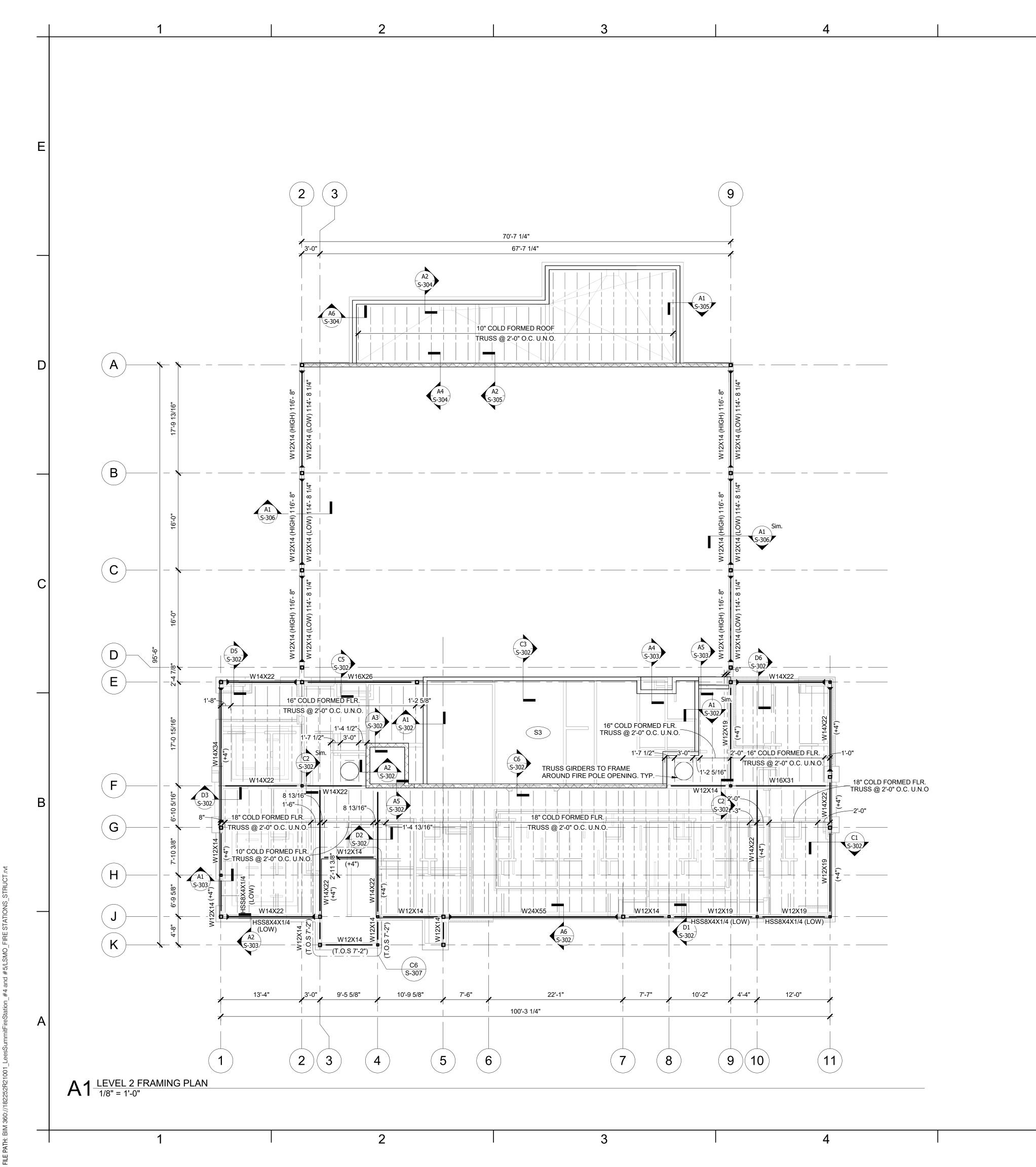
FIRE STATIC CITY OF LEE'S SU 5031 NORTHEAST LEE'S SUMMIT, M

# Description Date



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## ROOF FRAMING PLAN NOTES:

- ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
- OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
- 3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
- NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
- COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
- COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
  SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING
- IS UPHELD.

#### FLOOR FRAMING PLAN NOTES:

- T.O.S. 112- 1"
  FLOOR DECK 0.6C 22GA. METAL DECK W/ 3" TOTAL DEPTH CONCRETE FASTENED TO SUPPORTS USING #10 SCREWS IN A 36/4 PATTERN W/ (3) # 10 SCREW SIDE LAP FASTENERS PER SPAN. DECK MUST SPAN A MIN. OF 2 SPANS. REINFORCE
- CONRETE W/ WWF 6X6 W1.4XW1.4

  OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
- 4. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
- 5. NON-LOAD BEARING WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF FLOOR FRAMING.
- COLD FORMED FLOOR JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
- COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
- SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

	8	SLAB SCHEDULE
MARK	TYPE	REINFORCEMENT
S1	4" SLAB ON GRADE	#4 @ 16" O.C. E.W.
S2	8" SLAB ON GRADE	#6 @ 18" O.C. E.W.
S3	12" STORM SHELTER LID	#5 @ 8" O.C. T/B E.W.



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LAKEWOOD WAY ISSOURI 64064

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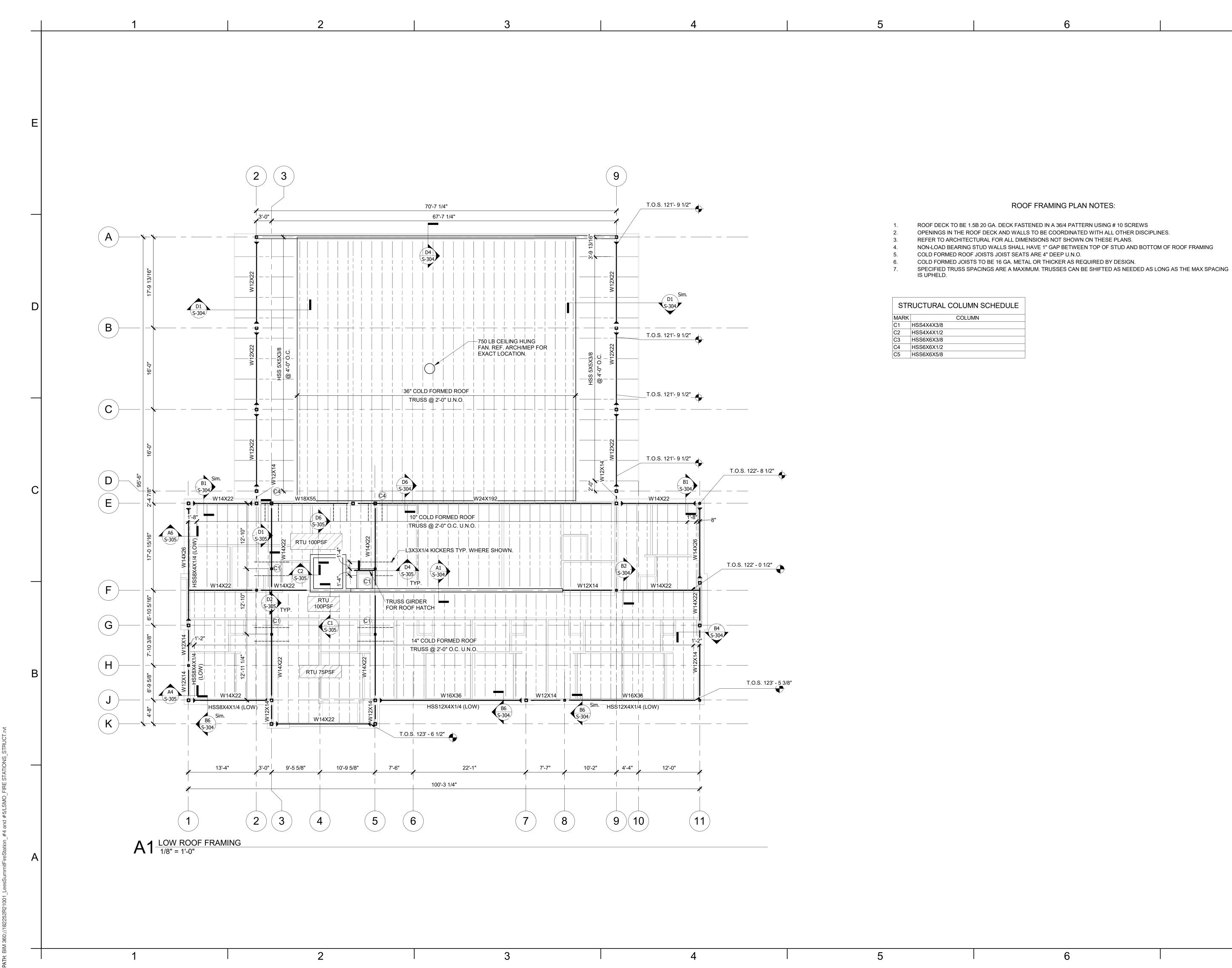
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S-101

FRAMING PLAN

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ROOF FRAMING PLAN NOTES:

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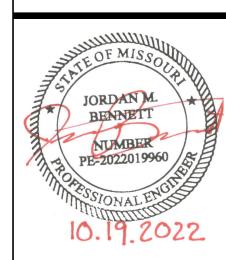
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(913) 362.9090

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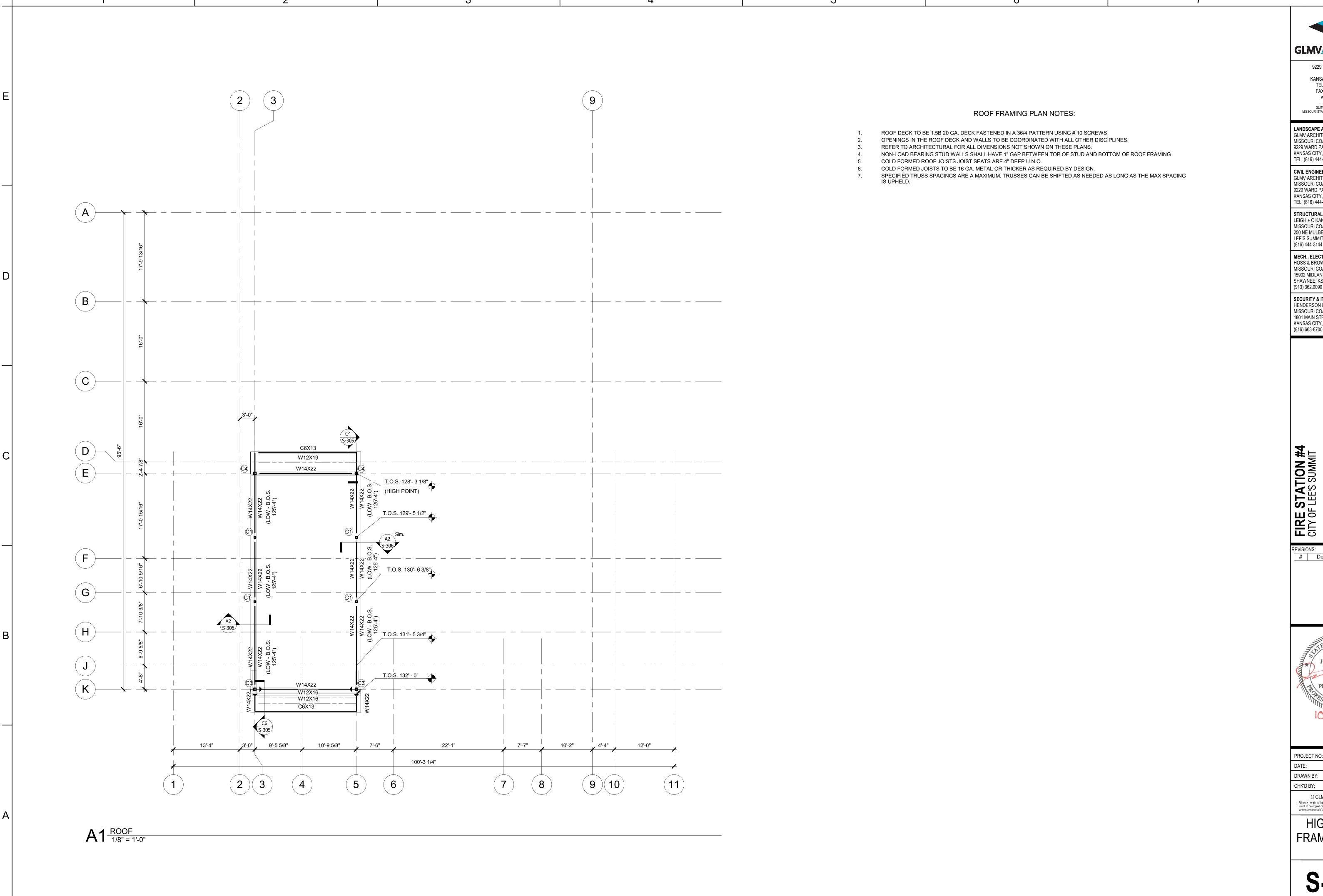
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LOW ROOF FRAMING PLAN



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NENT DRAWINGS

5031 NORTHEAST LAKEWOOD WA LEE'S SUMMIT, MISSOURI 64064

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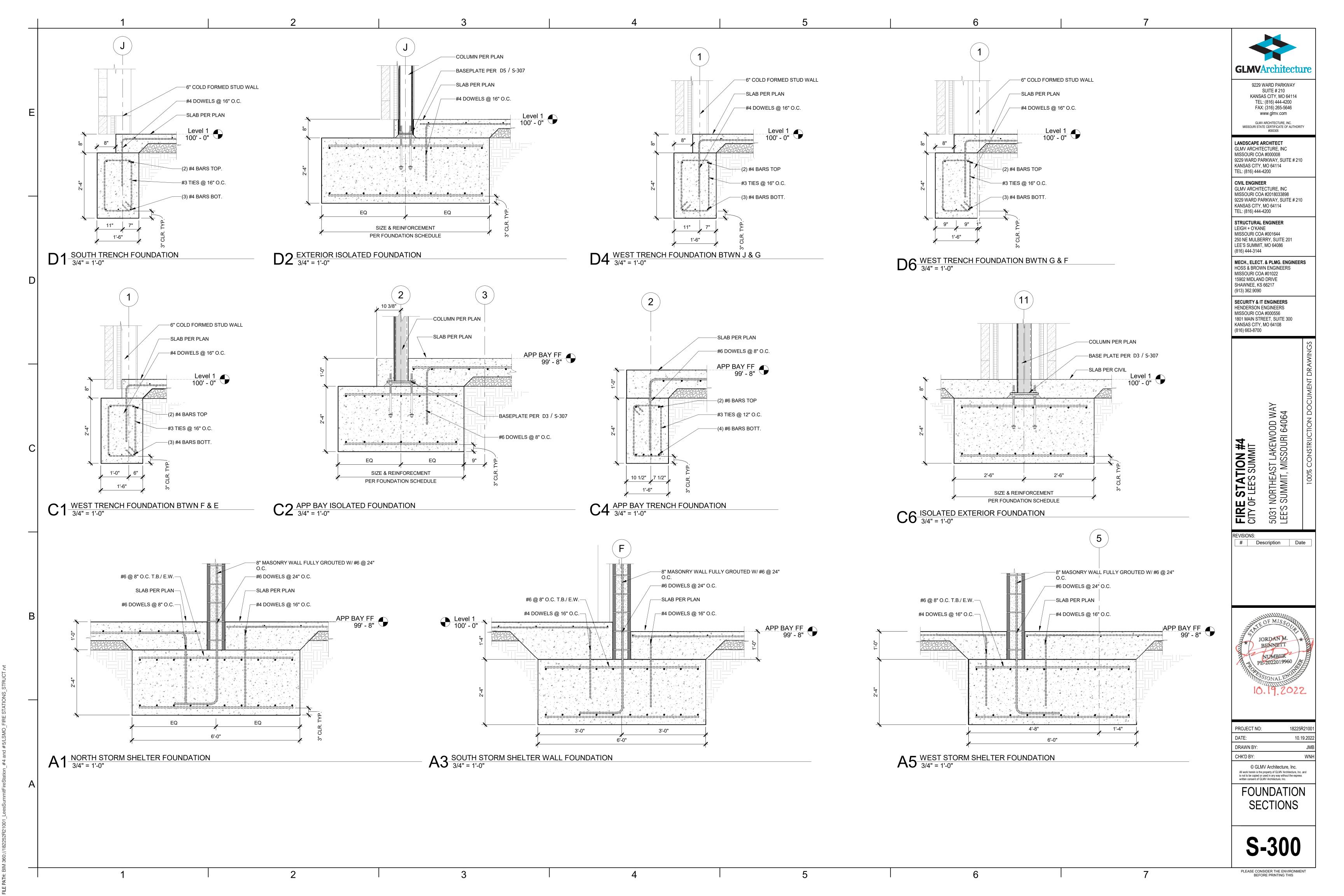


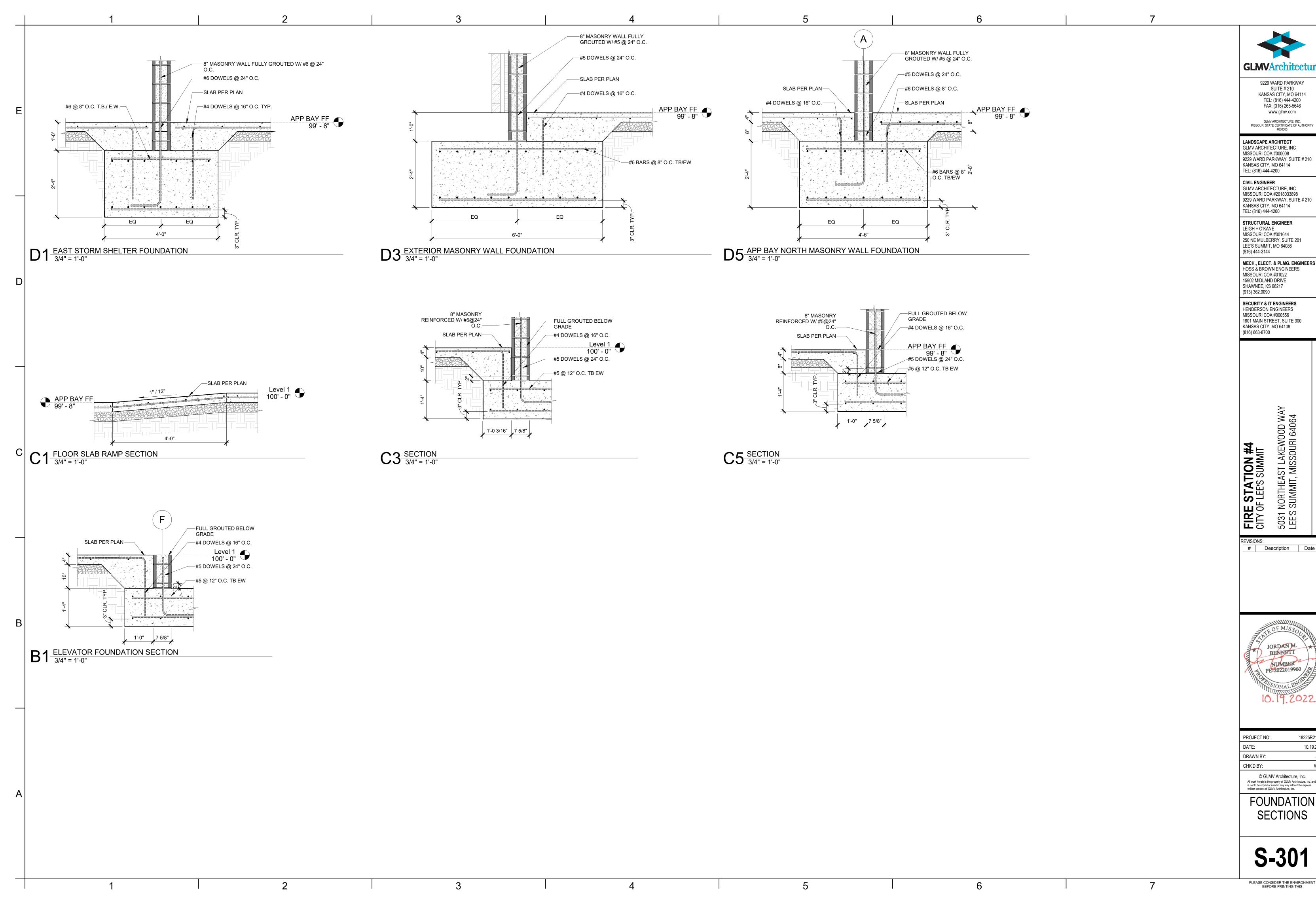
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HIGH ROOF FRAMING PLAN

**S-104** 





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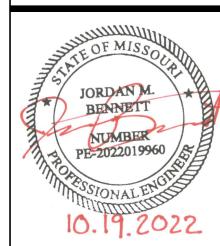
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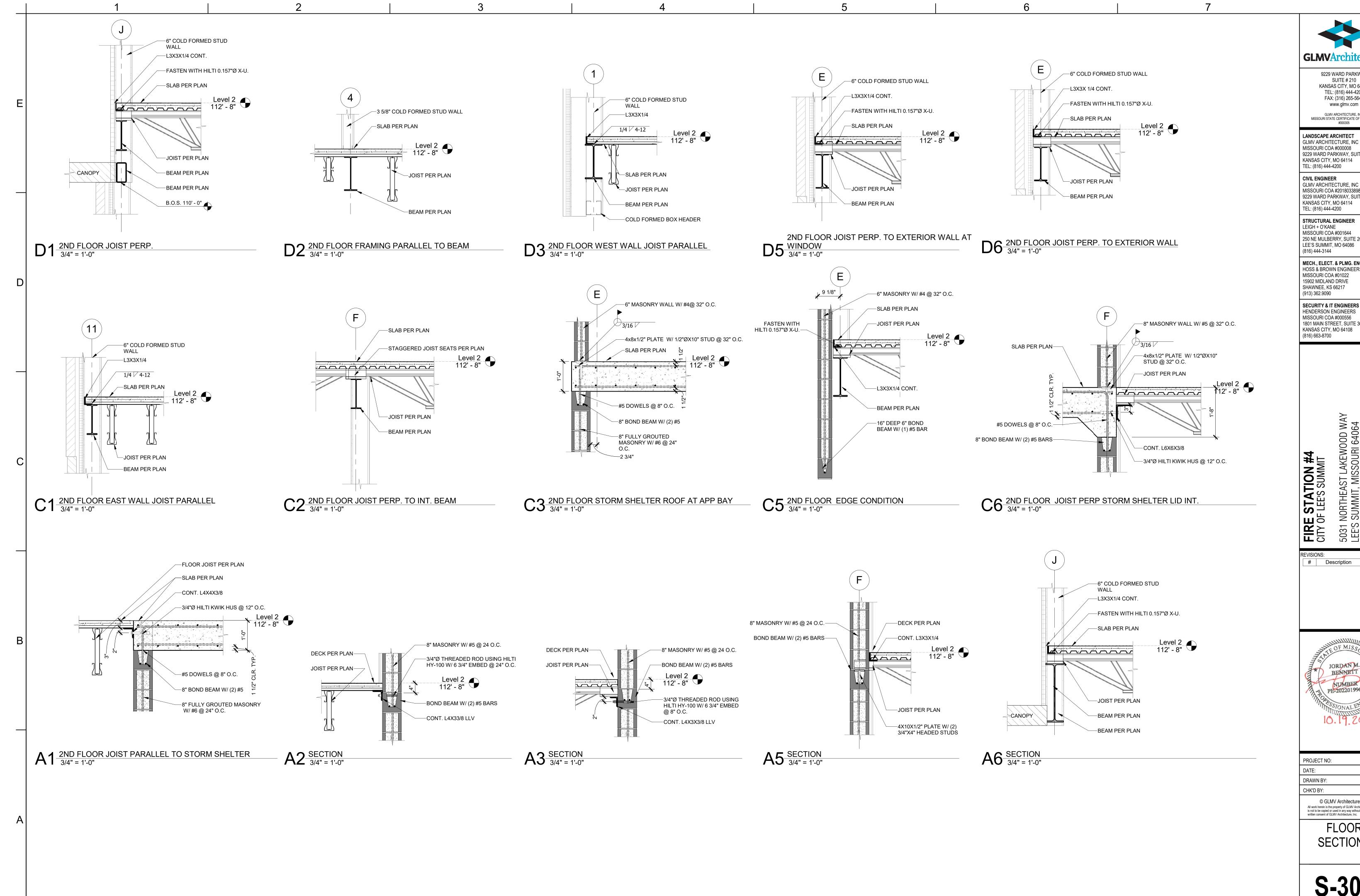
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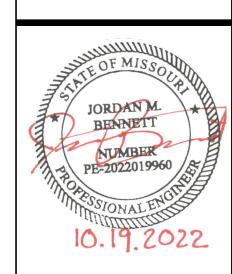
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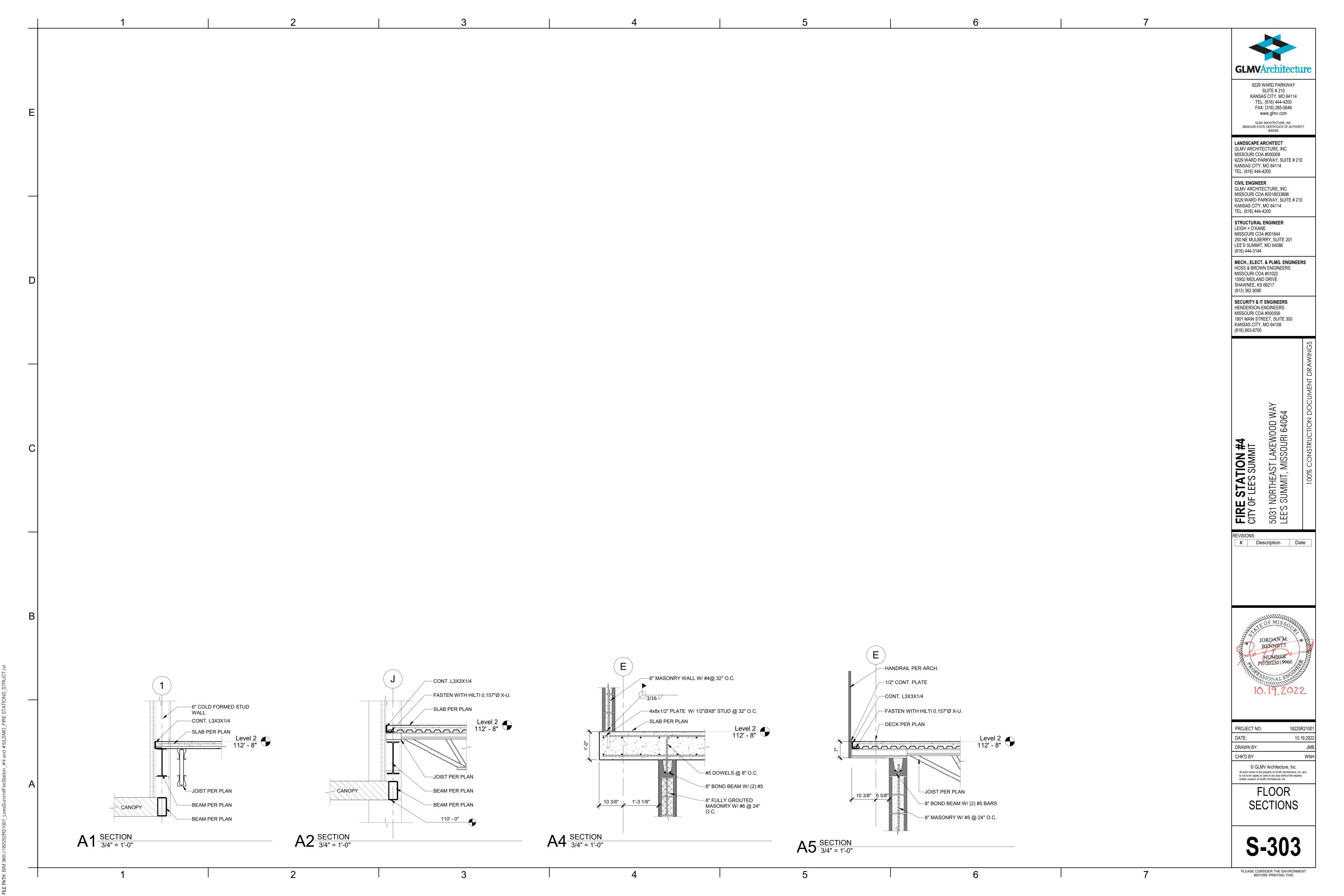


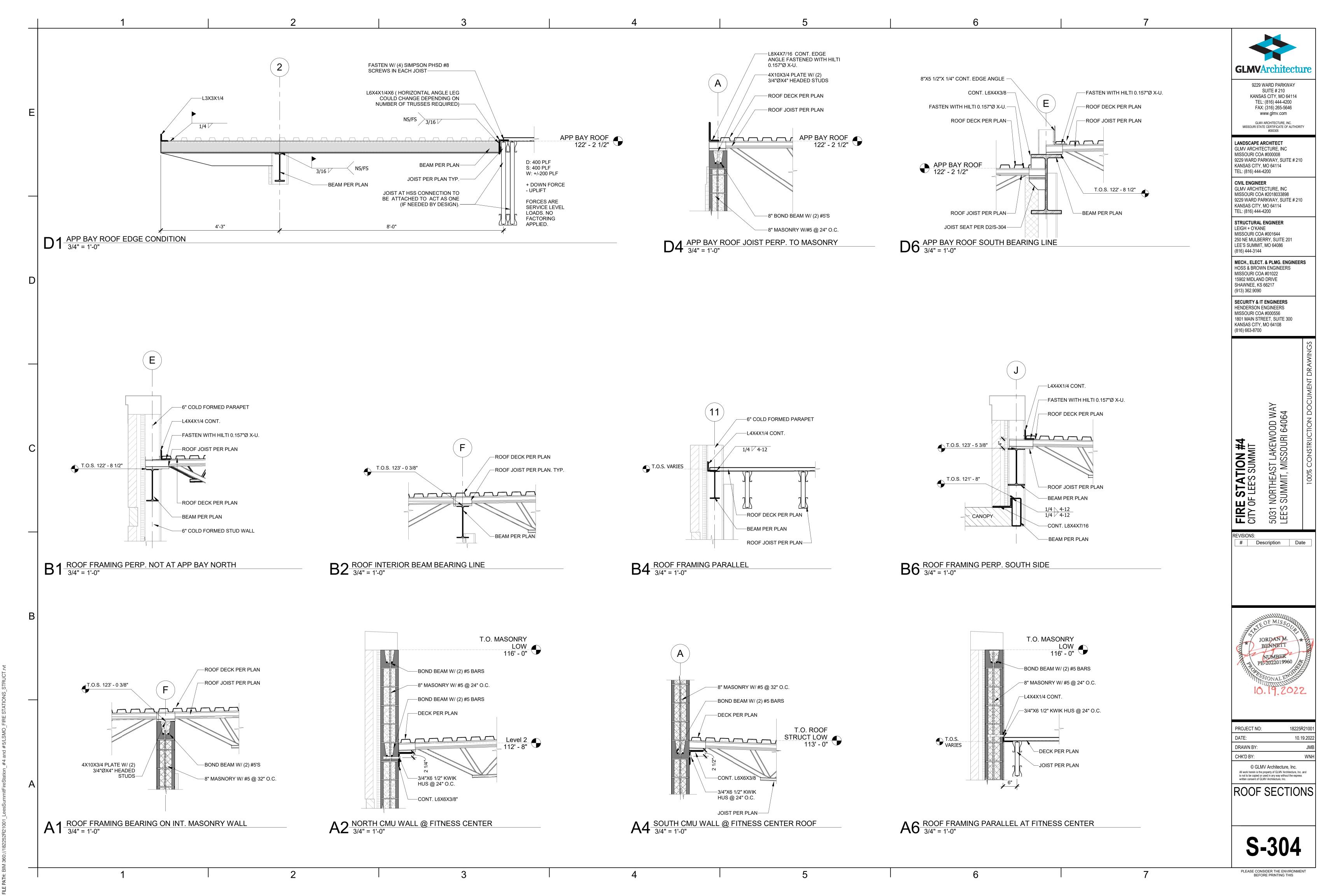
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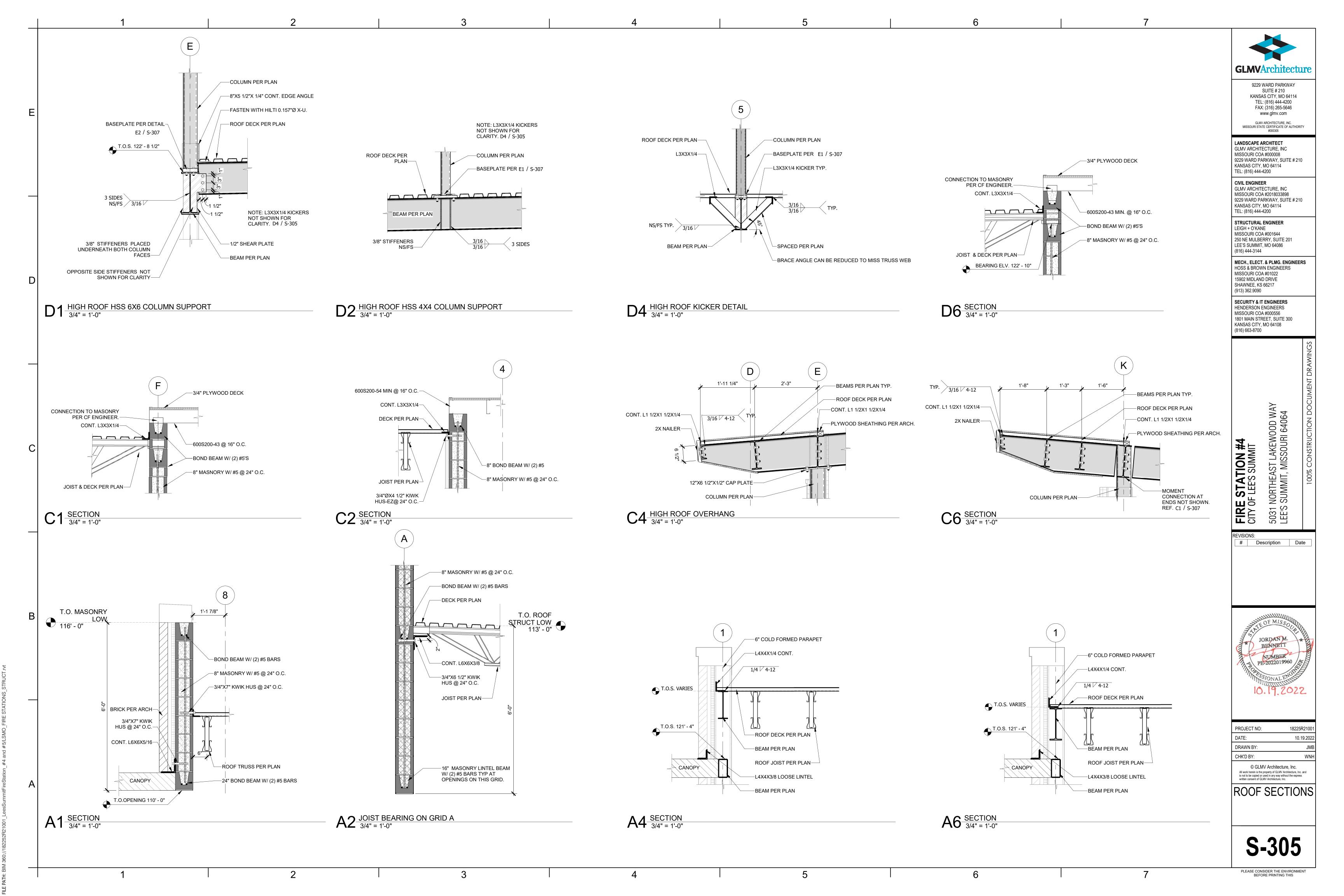
**FLOOR** SECTIONS

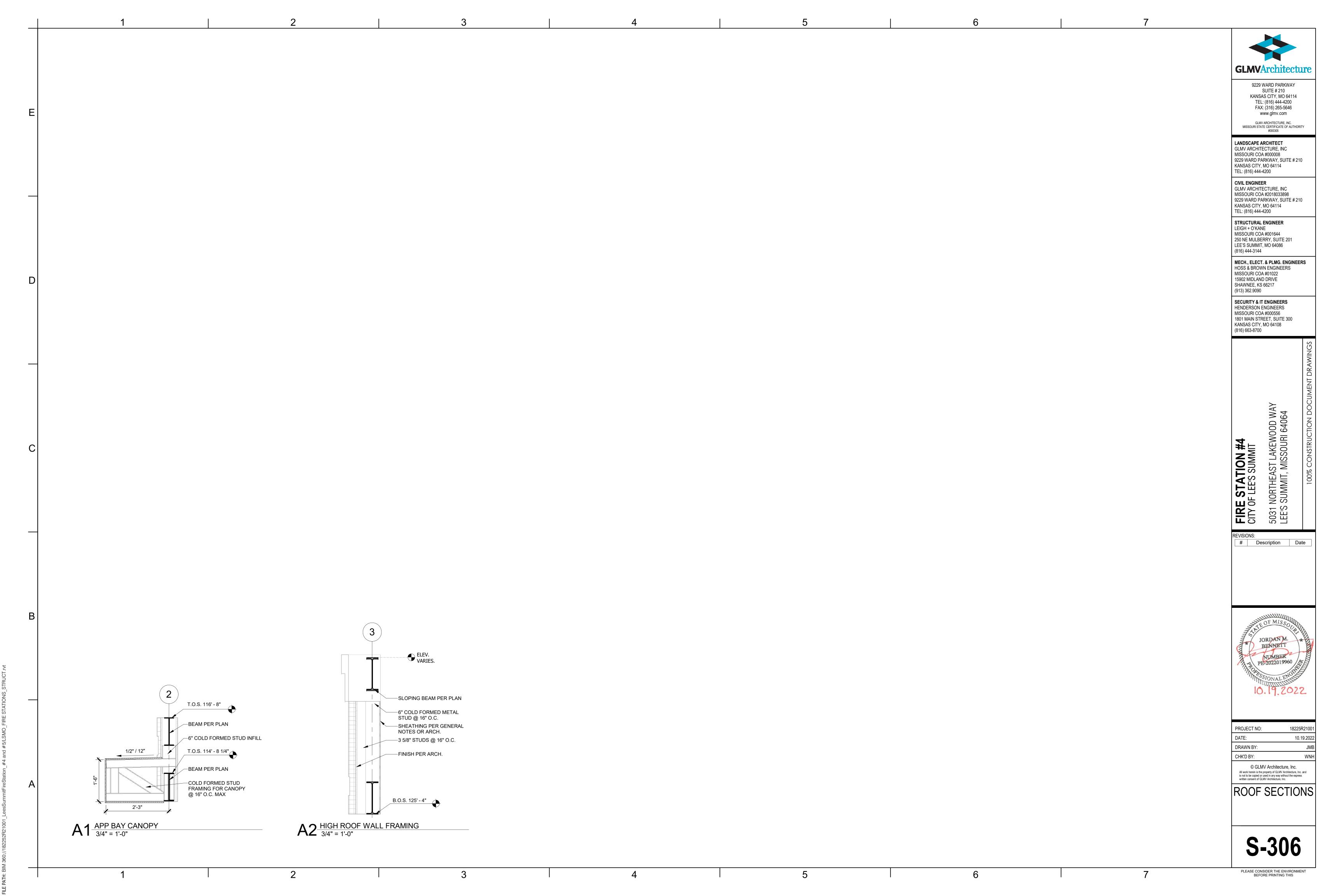
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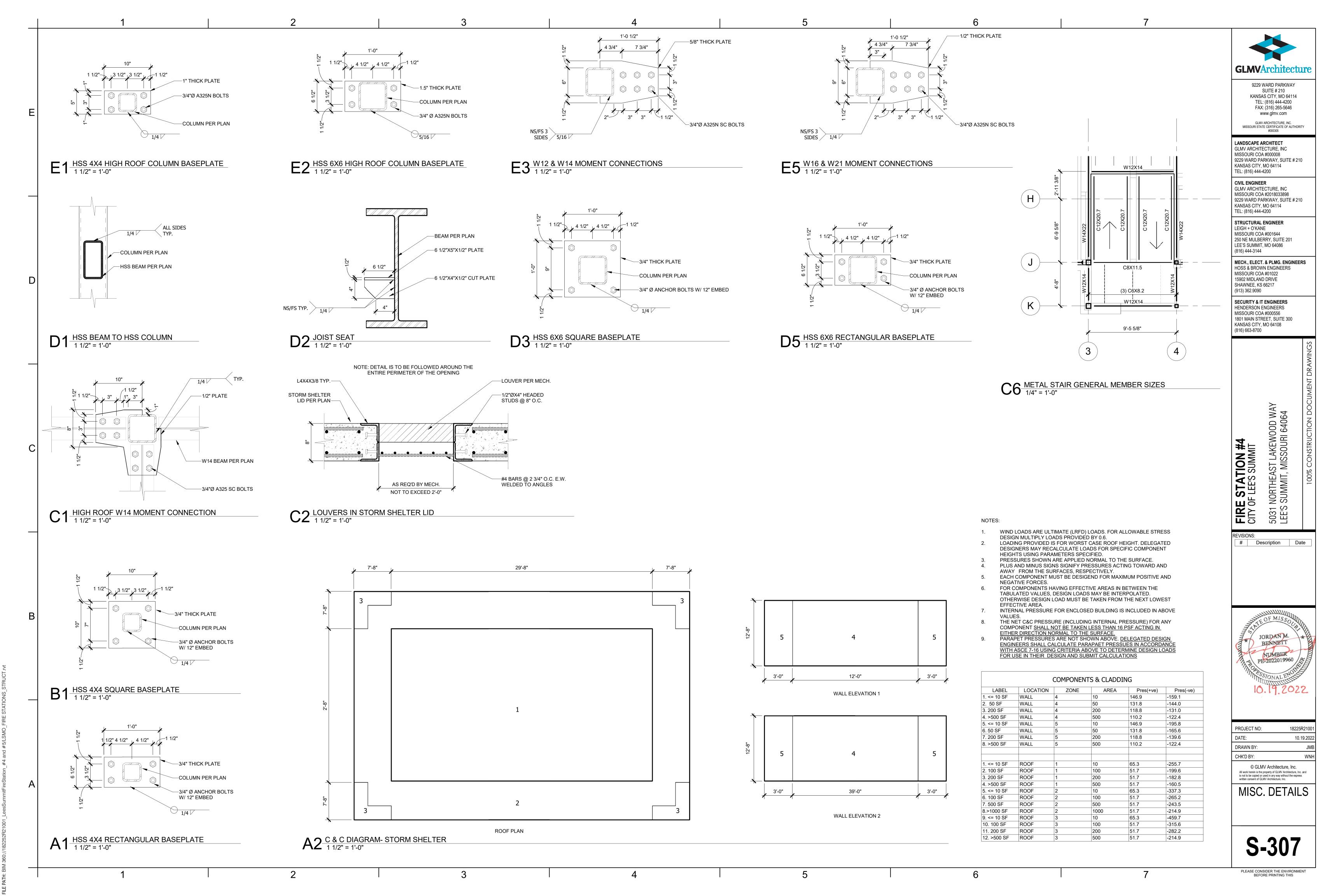
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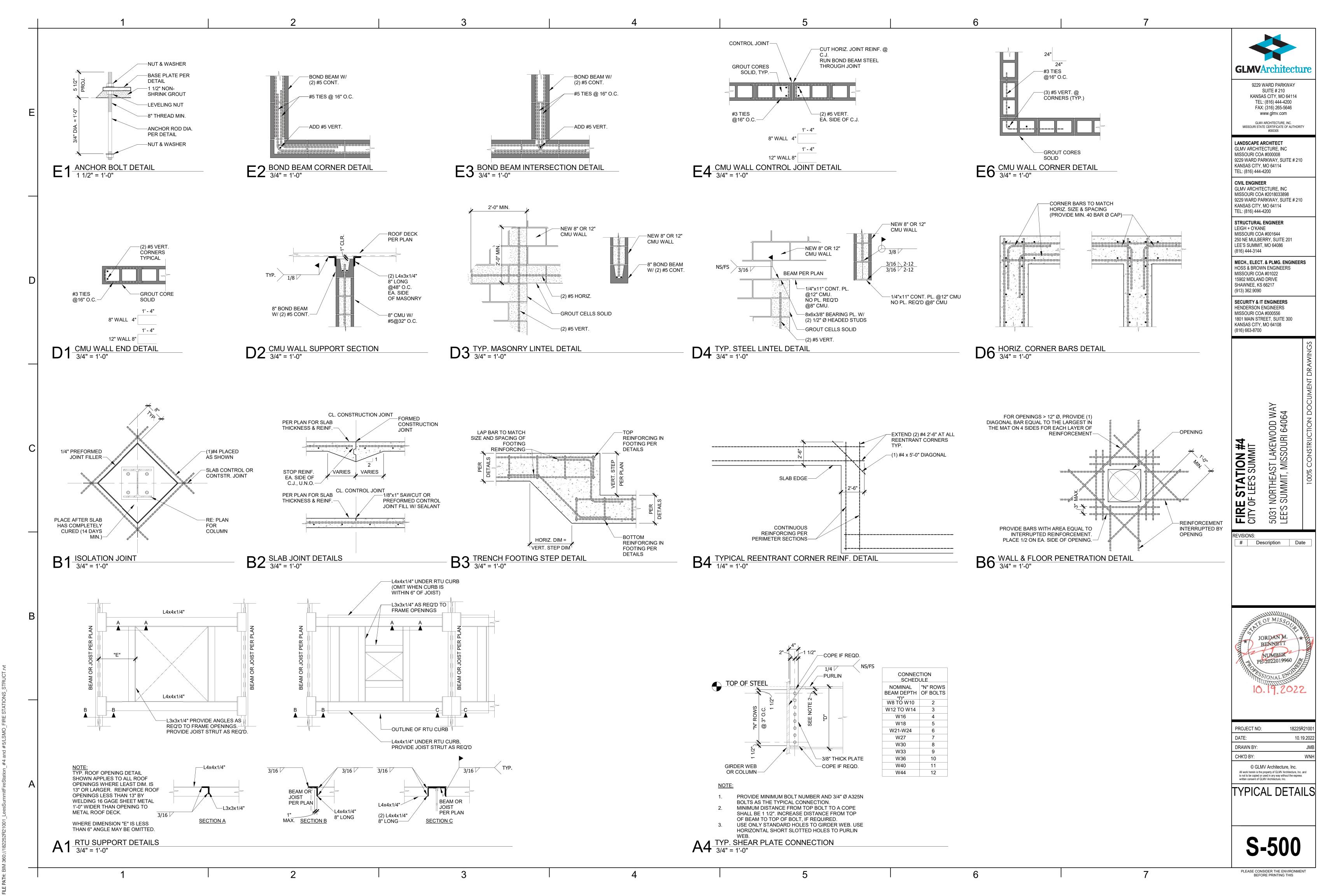


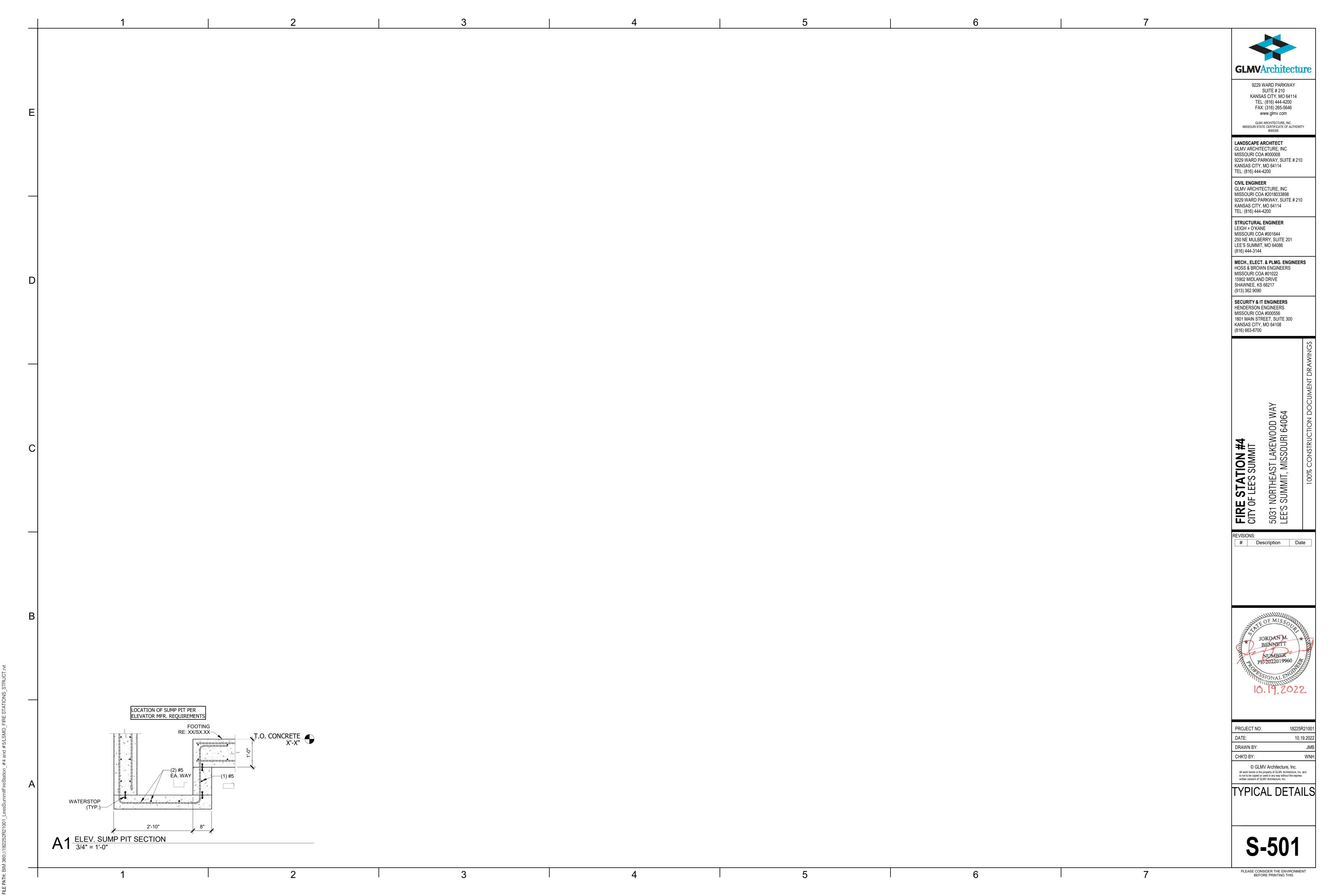


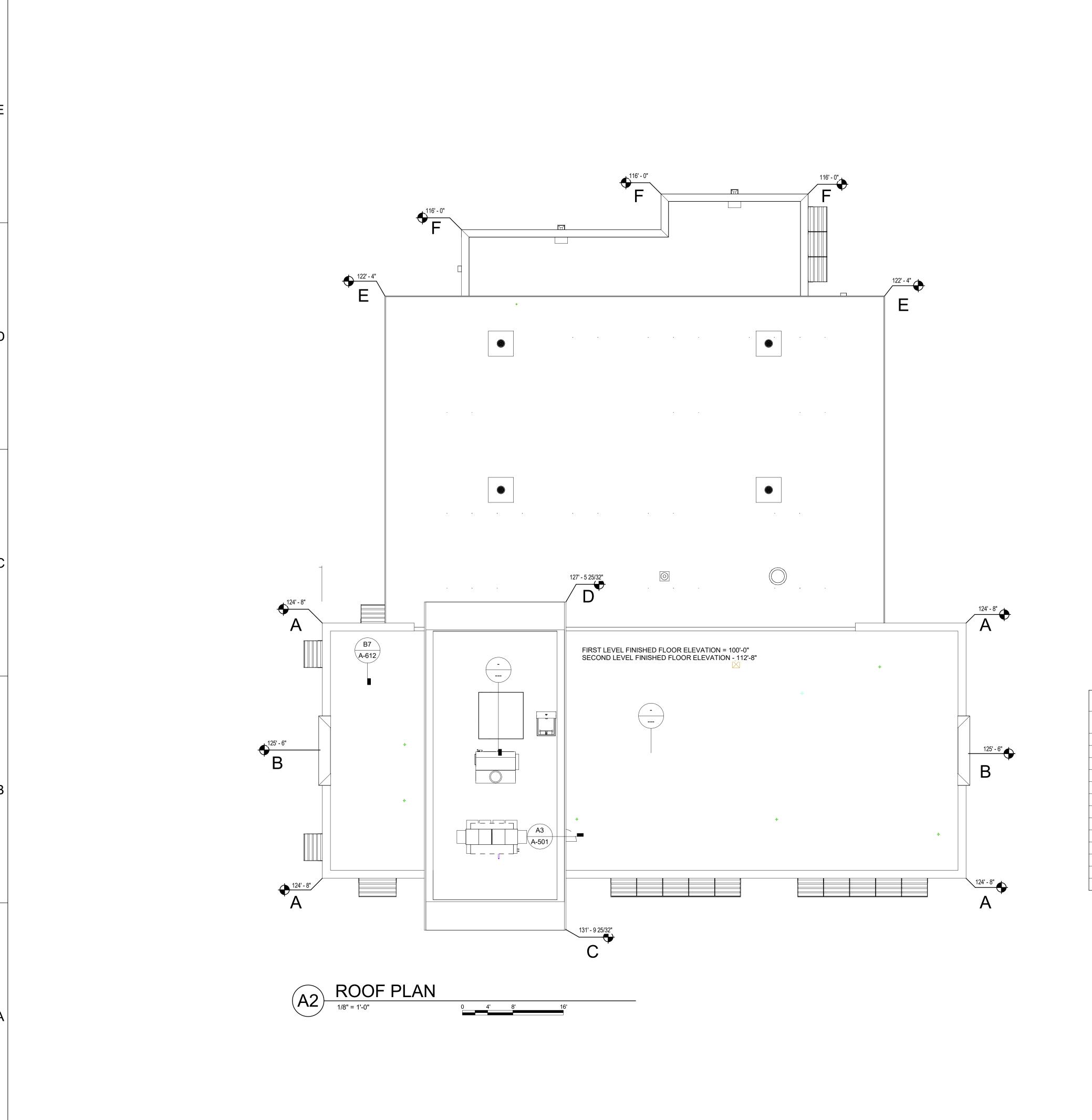












EL	EVATI	ONS REL	ATIVE TO	SEA LE'	VEL
Fire Station		Architectural Datum (1st Level)	Height Above 1st Level	Civil Datum (1st Level)	Above Sea Elevation
4	Α	100' - 0"	124' - 8"	909.24 ft	1033.91 ft
4	В	100' - 0"	125' - 6"	909.24 ft	1034.74 ft
4	С	100' - 0"	131' - 10"	909.24 ft	1041.07 ft
4	D	100' - 0"	127' - 6"	909.24 ft	1036.74 ft
4	Е	100' - 0"	122' - 4"	909.24 ft	1031.57 ft
4	F	100' - 0"	116' - 0"	909.24 ft	1025.24 ft
5	Α	100' - 0"	124' - 8"	1002.76 ft	1127.43 ft
5	В	100' - 0"	125' - 6"	1002.76 ft	1128.26 ft
5	С	100' - 0"	131' - 10"	1002.76 ft	1134.59 ft
5	D	100' - 0"	127' - 6"	1002.76 ft	1130.26 ft
5	Е	100' - 0"	122' - 4"	1002.76 ft	1125.09 ft
5	F	100' - 0"	116' - 0"	1002.76 ft	1118.76 ft

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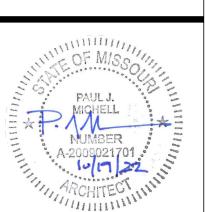
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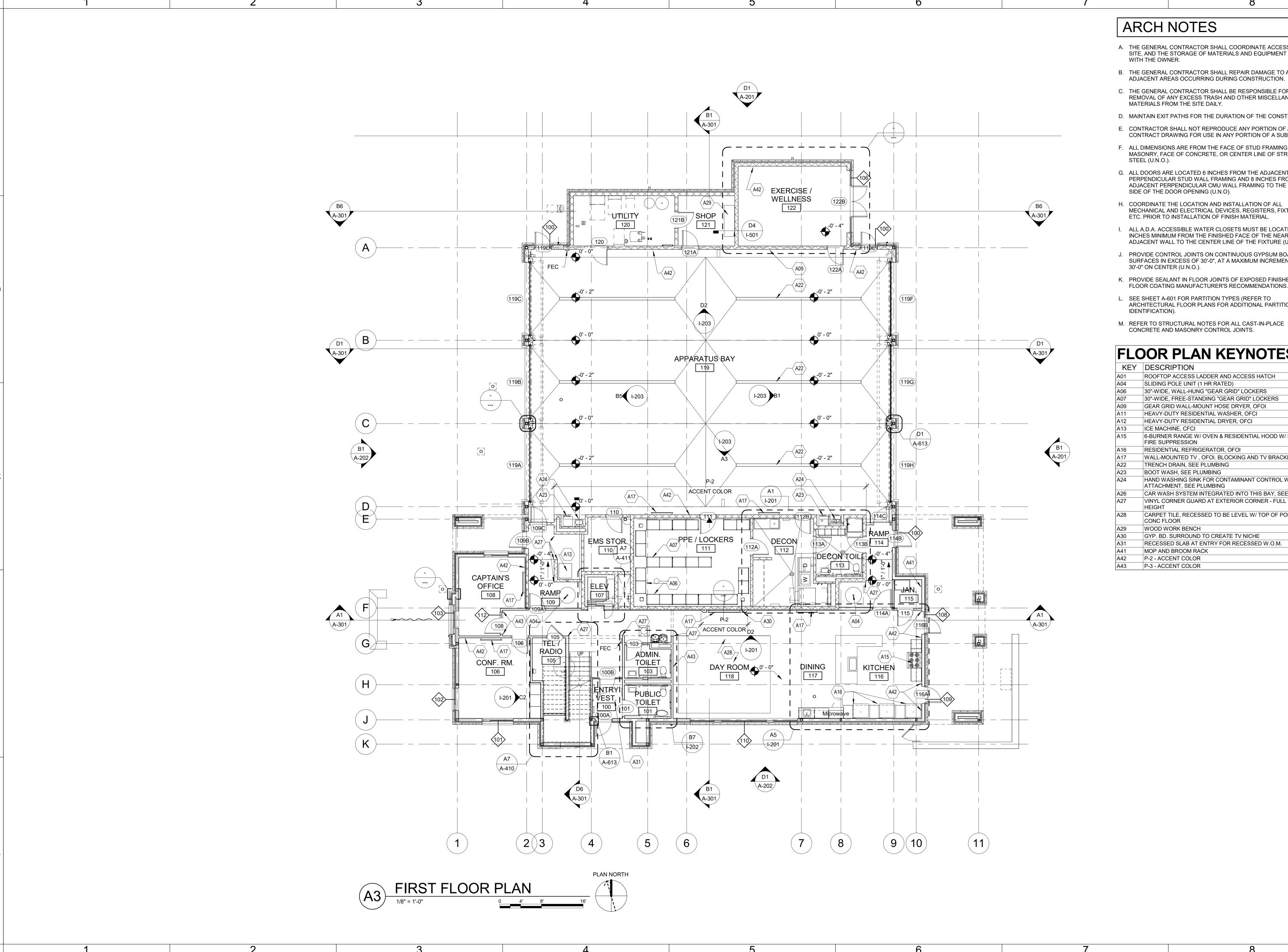


PAUL J. MICHELL - ARCHITECT MO# A-2009021701

PROJECT NO: 18225R21001 DATE: 10.19.2022 DRAWN BY: Author CHK'D BY: Checker

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**ELEVATIONS** 



### **ARCH NOTES**

- A. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- B. THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY
- C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- D. MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- E. CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL
- F. ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL
- G. ALL DOORS ARE LOCATED 6 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O).
- H. COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- I. ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- K. PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- L. SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- M. REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.

#### FI OOR PI AN KEYNOTES

KEY	DESCRIPTION
A01	ROOFTOP ACCESS LADDER AND ACCESS HATCH
A04	SLIDING POLE UNIT (1 HR RATED)
A06	30"-WIDE, WALL-HUNG "GEAR GRID" LOCKERS
A07	30"-WIDE, FREE-STANDING "GEAR GRID" LOCKERS
A09	GEAR GRID WALL-MOUNT HOSE DRYER, OFOI
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A13	ICE MACHINE, CFCI
A15	6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION
A16	RESIDENTIAL REFRIGERATOR, OFOI
A17	WALL-MOUNTED TV , OFOI. BLOCKING AND TV BRACKET, CFCI
A22	TRENCH DRAIN, SEE PLUMBING
A23	BOOT WASH, SEE PLUMBING
A24	HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING
A26	CAR WASH SYSTEM INTEGRATED INTO THIS BAY, SEE PLUMBING
A27	VINYL CORNER GUARD AT EXTERIOR CORNER - FULL WALL HEIGHT
A28	CARPET TILE, RECESSED TO BE LEVEL W/ TOP OF POLISHED CONC FLOOR
A29	WOOD WORK BENCH
A30	GYP. BD. SURROUND TO CREATE TV NICHE
A31	RECESSED SLAB AT ENTRY FOR RECESSED W.O.M.
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR



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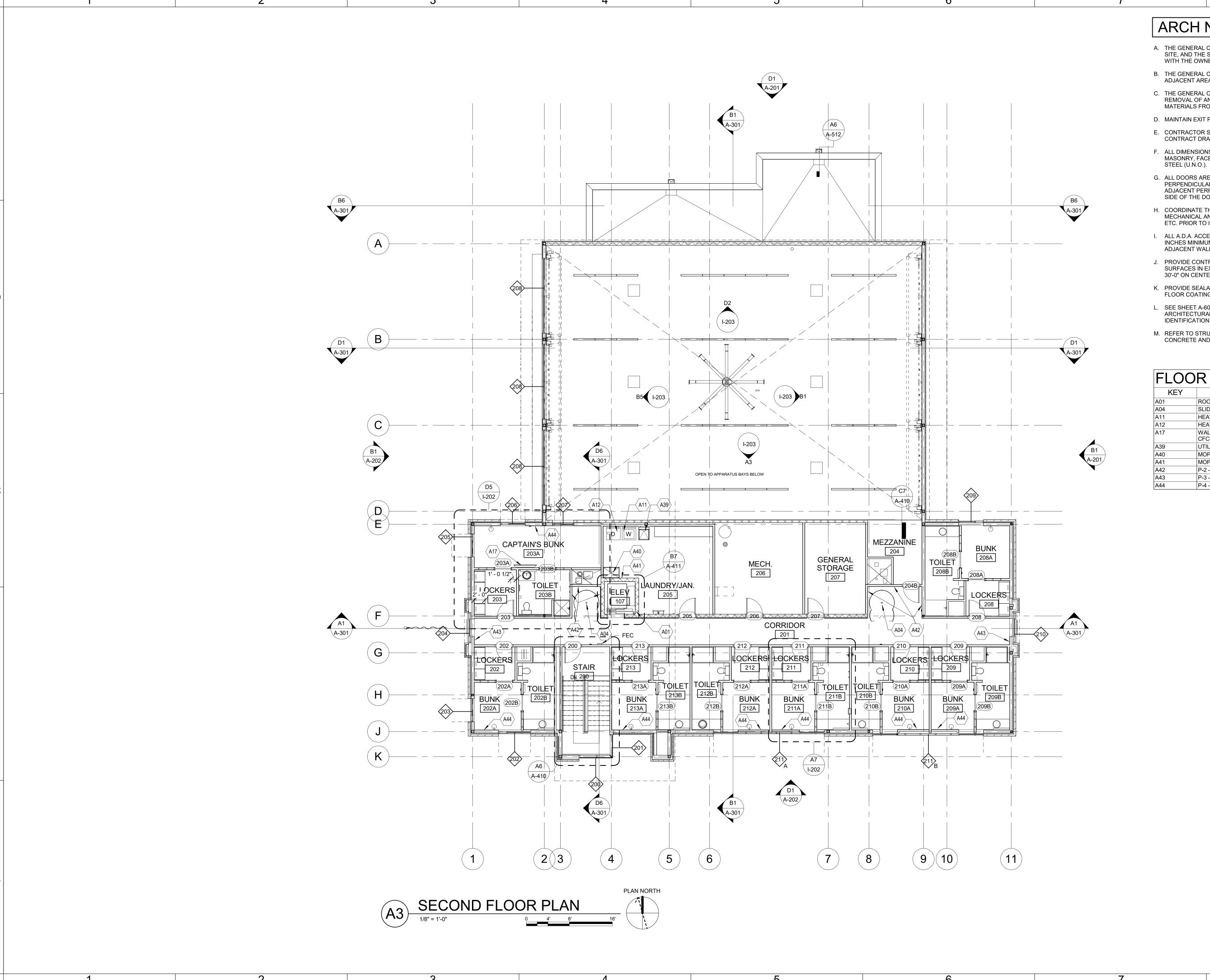


PAUL J. MICHELL - ARCHITECT MO# A-2009021701

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# FLOOR PLAN KEYNOTES.

DESCRIPTION
ROOFTOP ACCESS LADDER AND ACCESS HATCH
SLIDING POLE UNIT (1 HR RATED)
HEAVY-DUTY RESIDENTIAL WASHER, OFCI
HEAVY-DUTY RESIDENTIAL DRYER, OFCI
WALL-MOUNTED TV , OFOI. BLOCKING AND TV BRACKET, CFCI
UTILITY SINK
MOP SINK
MOP AND BROOM RACK
P-2 - ACCENT COLOR
P-3 - ACCENT COLOR
P-4 - ACCENT COLOR



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SECURITY & IT ENGINEERS HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108

# Description

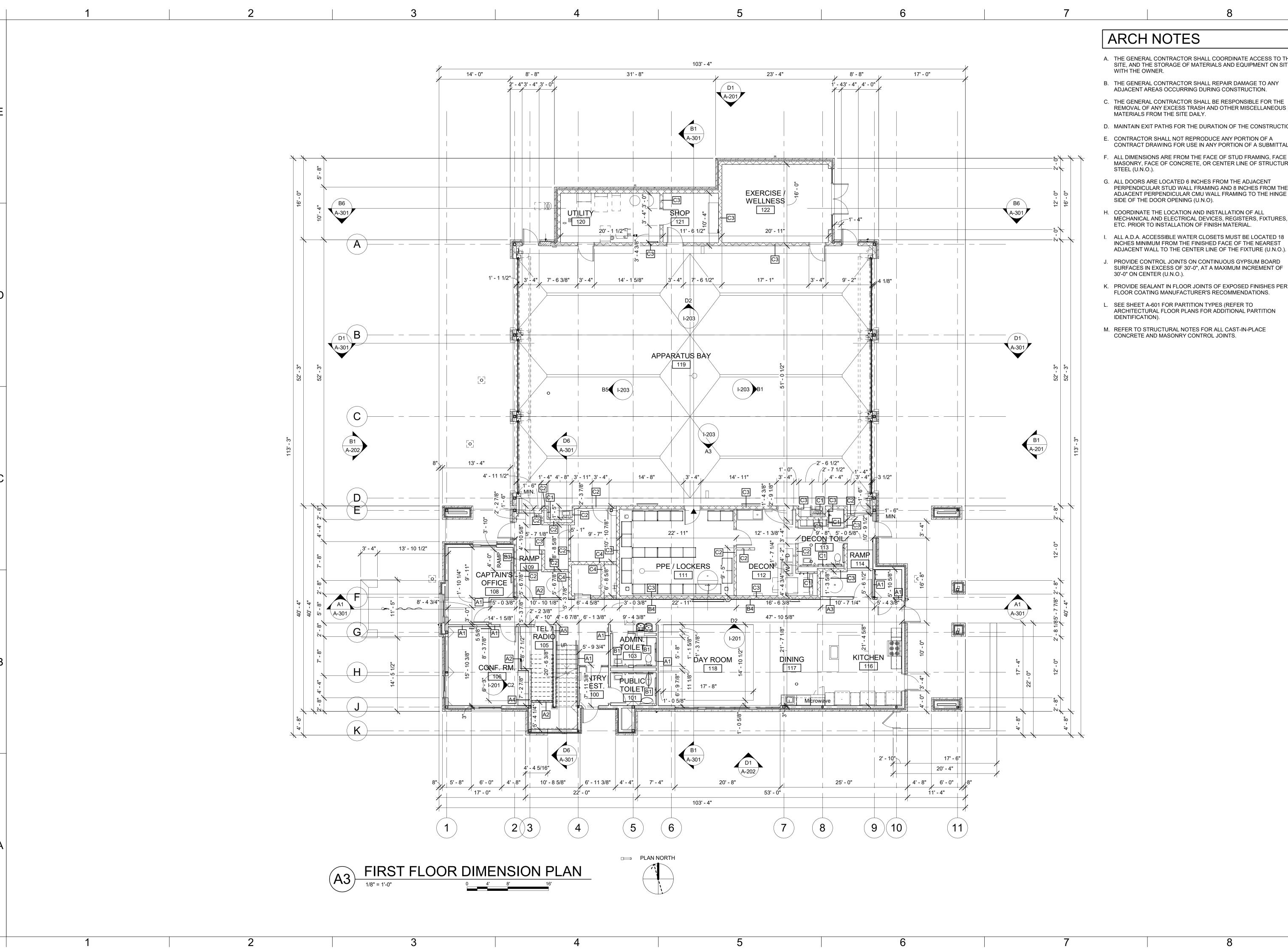


PAUL J. MICHELL - ARCHITECT MO# A-2009021701

PROJECT NO: 10.19.2022

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SECOND FLOOR



- A. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE
  - B. THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY
- C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS
- D. MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- E. CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- F. ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL
- G. ALL DOORS ARE LOCATED 6 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE
- H. COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES,
- ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST
- J. PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF
- K. PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION
- M. REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE



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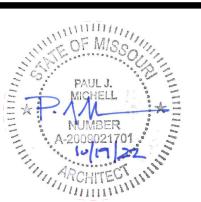
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LEE'S SUMMIT. MO 64086

(913) 362.9090 SECURITY & IT ENGINEERS HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300

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# Description

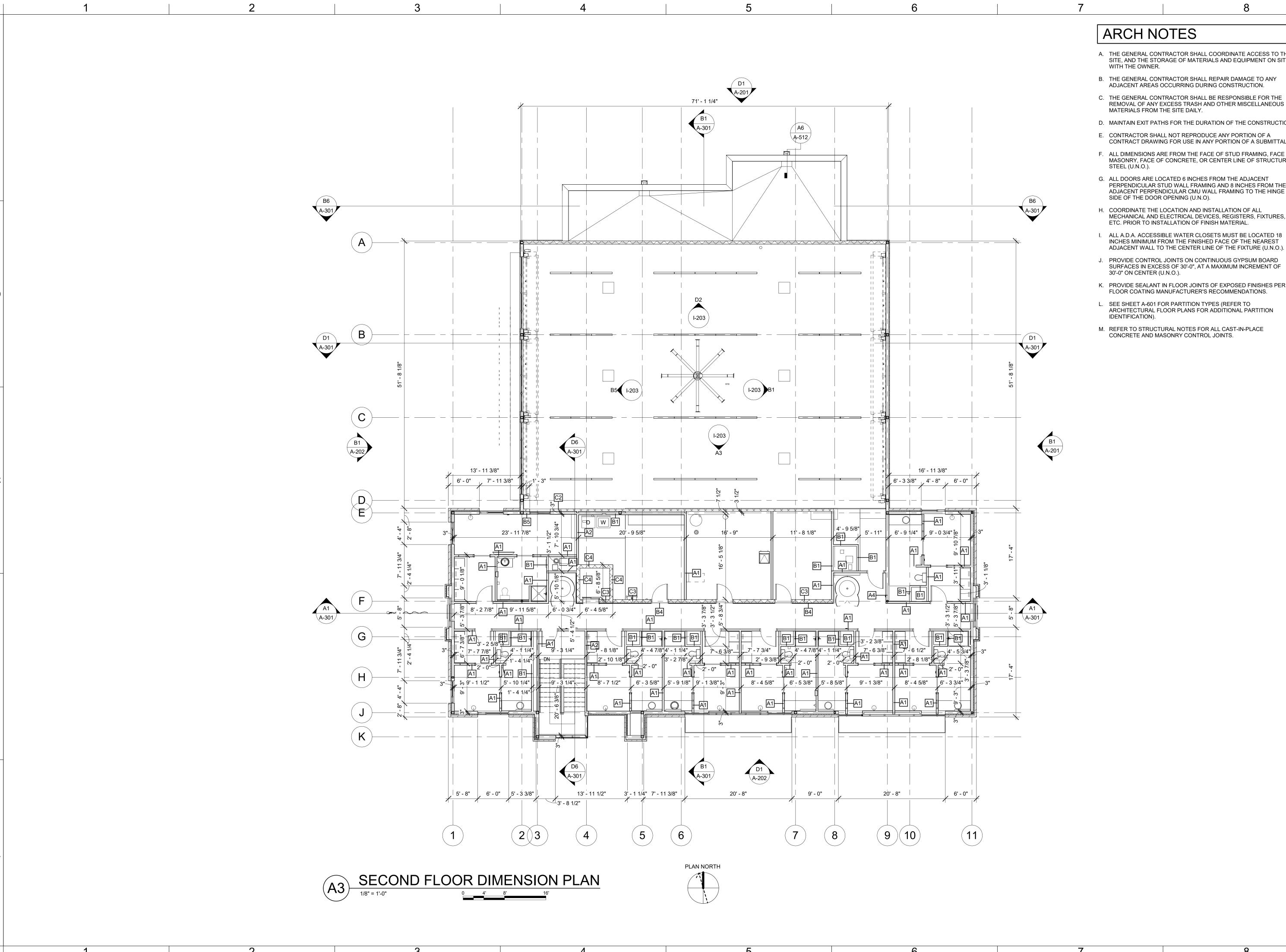


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FIRST FLOOR **DIMENSION PLAN** 



### **ARCH NOTES**

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- G. ALL DOORS ARE LOCATED 6 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O).
- H. COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- I. ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST
- J. PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- K. PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- L. SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION
- M. REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.



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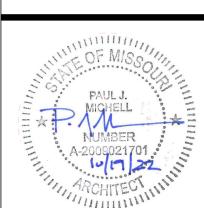
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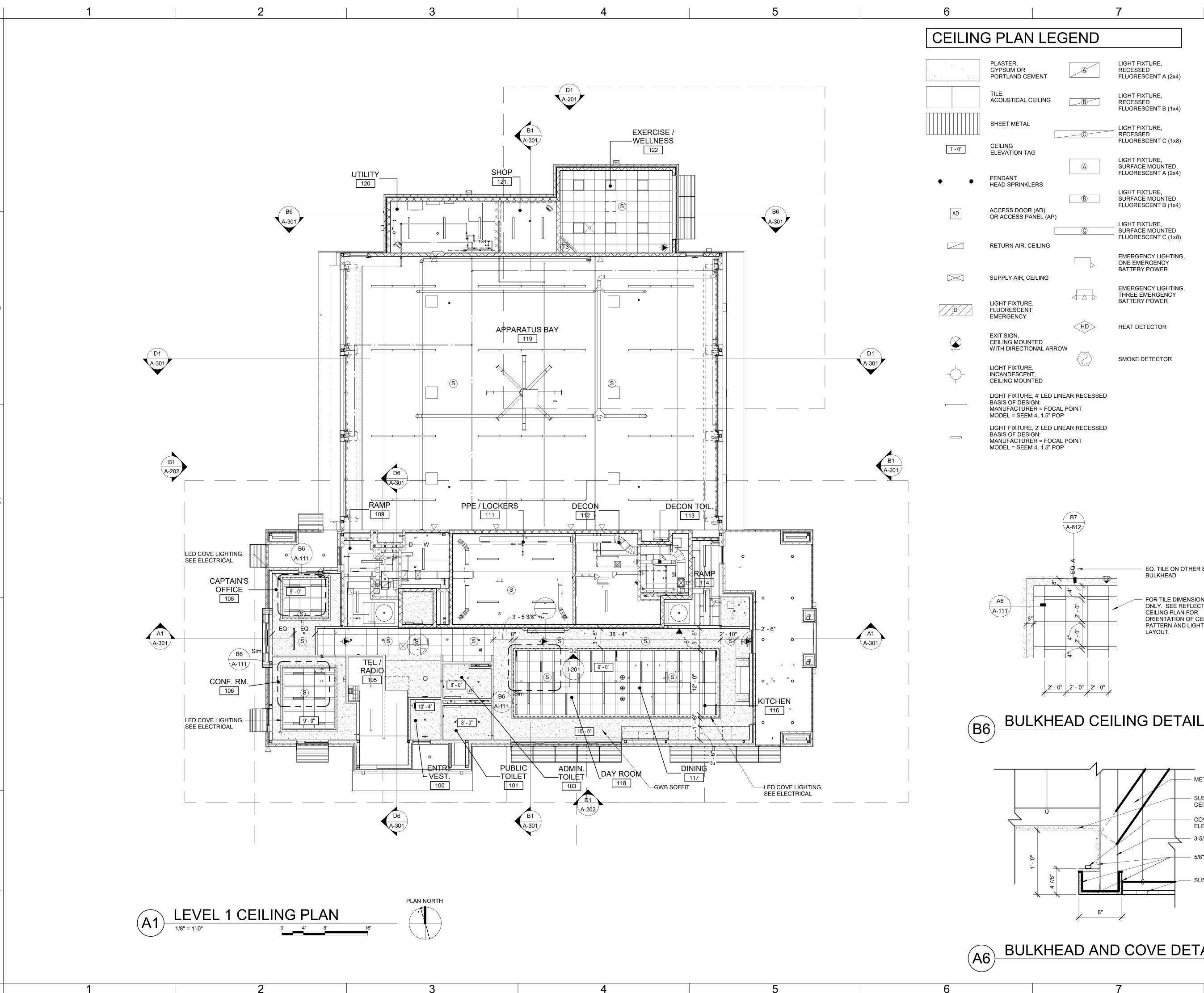


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SECOND FLOOR **DIMENSION PLAN** 



# CEILING PLAN LEGEND

LIGHT FIXTURE, PLASTER, GYPSUM OR RECESSED PORTLAND CEMENT FLUORESCENT A (2x4) LIGHT FIXTURE,

SHEET METAL

RECESSED FLUORESCENT B (1x4) LIGHT FIXTURE, RECESSED

LIGHT FIXTURE,

LIGHT FIXTURE,

SURFACE MOUNTED

SURFACE MOUNTED

FLUORESCENT C (1x8)

EMERGENCY LIGHTING,

EMERGENCY LIGHTING.

THREE EMERGENCY

BATTERY POWER

HEAT DETECTOR

SMOKE DETECTOR

EQ. TILE ON OTHER SIDE OF

FOR TILE DIMENSIONS

ONLY. SEE REFLECTED

ORIENTATION OF CEILING PATTERN AND LIGHTING

CEILING PLAN FOR

BULKHEAD

LAYOUT.

ONE EMERGENCY

BATTERY POWER

FLUORESCENT B (1x4)

CEILING **ELEVATION TAG** 

FLUORESCENT C (1x8) LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4)

PENDANT HEAD SPRINKLERS

ACCESS DOOR (AD) OR ACCESS PANEL (AP)

RETURN AIR, CEILING

SUPPLY AIR, CEILING

EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROW

LIGHT FIXTURE, INCANDESCENT, **CEILING MOUNTED** 

LIGHT FIXTURE, 4' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP LIGHT FIXTURE, 2' LED LINEAR RECESSED

BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP

### SHEET NOTES

MATERIAL.

- A. SEE ROOM FINISH SCHEDULE SHEET I-610 FOR CEILING TYPES AND MATERIALS IN EACH
- ROOM/AREA. B. PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN
- ACCORDANCE WITH IBC AND CISCA GUIDELINES.

C. ALL DIMENSIONS ARE FROM FACE OF FINISH

- D. CEILING GRIDS/TILES TO BE CENTERED IN ALL CONSULTING ARCHITECT ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
- E. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHTS ABOVE CASEWORK, U.N.O.
- F. SEE ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING, AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH CIELING LAYOUT SHOWN ON THIS SHEET.
- G. LIGHT FIXTURES, HVAC DIFFUSERS, AND SPECIAL SYSTEMS ARE SHOWN FOR POSITIONING WITHIN FINISH CEILING LAYOUT. COORDINATE WITH ELECTRICAL, MECHANICAL, AND SPECIAL SYSTEMS DRAWINGS FOR FIXTURE TYPES, LOCATIONS, SIZES, AND SCHEDULES.
- H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
- I. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM, AND MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED, U,N,O..
- J. INSTALL ACCESS PANELS IN GYP BD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS,
- K. LIGHT FIXTURES LOCATED AT STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
- L. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.

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OOD 6406

FIRE STATION #4
CITY OF LEE'S SUMMIT

REVISIONS: # Description

PAUL J. MICHELL - ARCHITECT MO# A-2009021701

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**CEILING PLAN** 

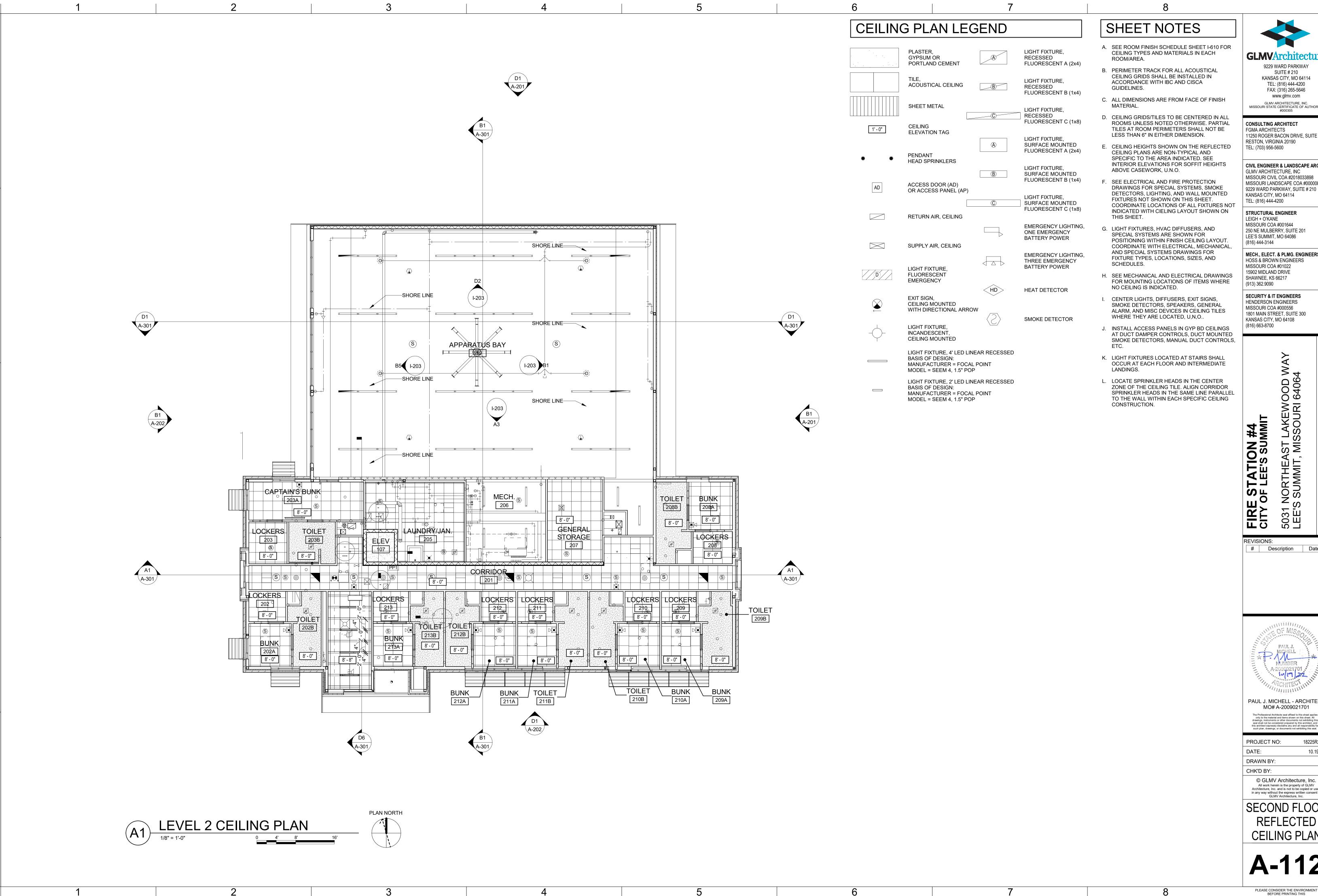
METAL STUD BRACING @ 24" O.C. SUSPENDED 5/8" GYP. BD. CEILING, PTD. - COVE LIGHTING, SEE ELECTRICAL 3-5/8" METAL STUD FRAMING - 5/8" GYP. BD., PTD.

**BULKHEAD AND COVE DETAIL** 

SUSPENDED ACT CEILING

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

2' - 0" 2' - 0" 2' - 0"



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250 NE MULBERRY, SUITE 201 LEE'S SUMMIT, MO 64086 MECH., ELECT. & PLMG. ENGINEERS

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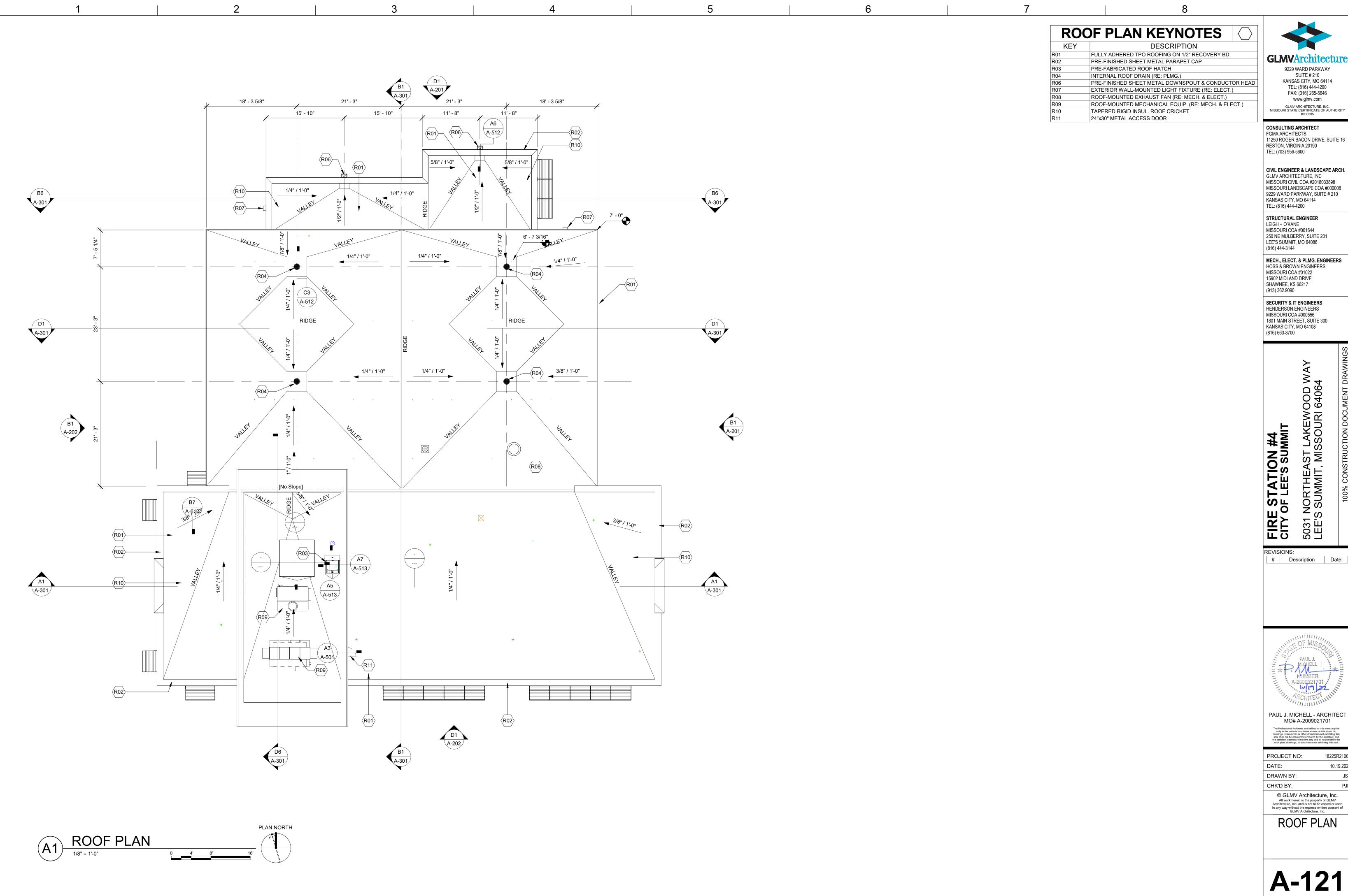


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18225R21001 10.19.2022

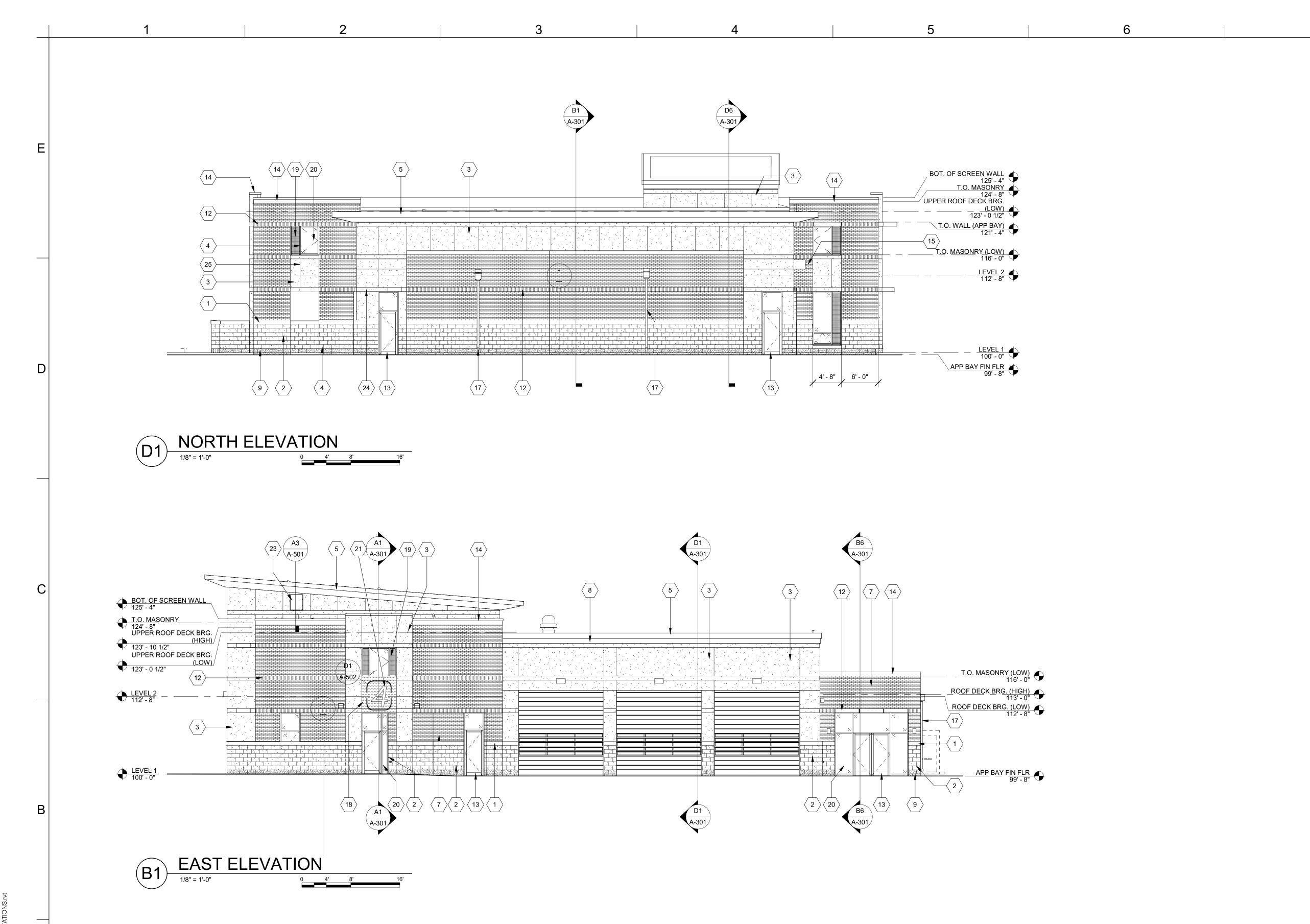
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SECOND FLOOR REFLECTED **CEILING PLAN** 



18225R21001

10.19.2022



**BUILDING ELEVATION...** KEY DESCRIPTION 1 CAST STONE MASONRY SILL 2 ANCHORED STONE MASONRY VENEER (TYPE 1) 3 EIFS 4 PRE-FINISHED ALUMINUM-FRAMED STOREFRONT 5 PRE-FINISHED SHEET METAL FASCIA 6 PRE-FINISHED ALUMINUM-FRAMED STOREFRONT 7 4" MASONRY VENEER (COMMON BOND) 8 PRE-FINISHED SHEET METAL SOFFIT PANELS 9 ANCHORED STONE MASONRY VENEER (TYPE 2) 12 4" MASONRY VENEER (SOLDIER) 13 PRE-FINISHED ALUMINUM-FRAMED ENTRANCE 14 PRE-FINISHED SHEET METAL PARAPET CAP 15 PRE-FINISHED SHEET METAL CANOPY 16 3/8" FIBER-CEMENT PANEL GAP (TYP.) 17 PRE-FINISHED SHEET METAL CONDUCTOR HEAD & DOWNSPOUT 18 PRE-FINISHED METAL PLATE WALL PANELS 19 METAL-FACED INSULATED WINDOW PANEL 20 1" INSULATED GLASS UNIT 21 BACKLIT PIN-MOUNTED PRE-FINISHED METAL SIGNAGE

22 WALL HYDRANT (RE: PLMG)

24 1/2" DEEP EIFS RECESS

27 1/2" METAL PANEL REVEAL

23 24"x30" METAL ACCESS DOOR

25 3/4" DEEP V-GROOVE EIFS REVEAL

26 BACK-LIT STAINLESS STEEL POST-MOUNTED FIRE DEPARTMENT

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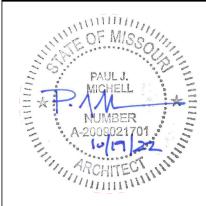
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EAST LAKEWOOD IT, MISSOURI 6406 FIRE STATION #4
CITY OF LEE'S SUMMIT

REVISIONS: # Description Date

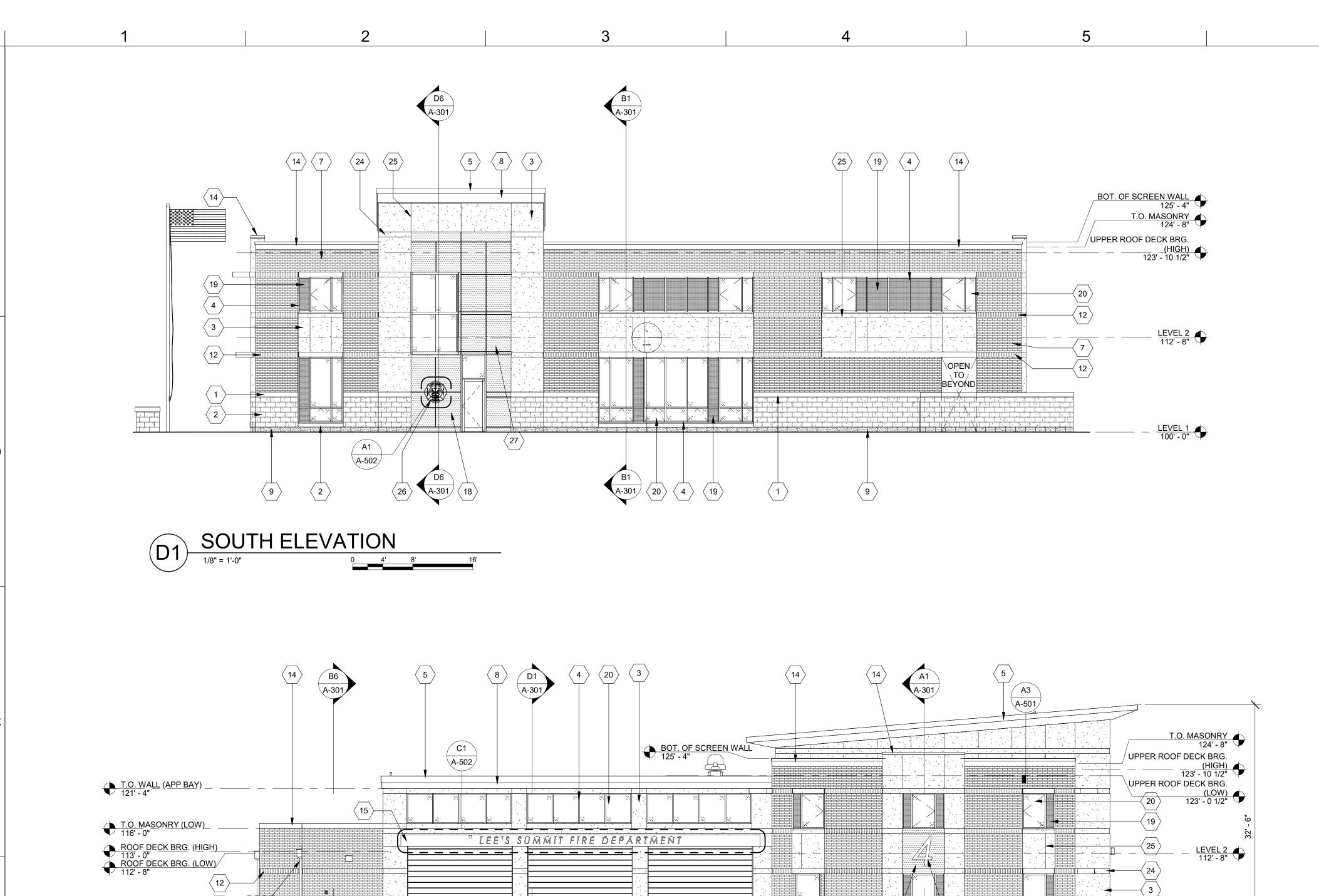


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BUILDING **ELEVATIONS** 



APP BAY FIN FLR 99' - 8" D1 A-301 4 (18)

WEST ELEVATION

**BUILDING ELEVATION...** 

KEY DESCRIPTION

1 CAST STONE MASONRY SILL 2 ANCHORED STONE MASONRY VENEER (TYPE 1)

3 EIFS 4 PRE-FINISHED ALUMINUM-FRAMED STOREFRONT 5 PRE-FINISHED SHEET METAL FASCIA

6 PRE-FINISHED ALUMINUM-FRAMED STOREFRONT 7 4" MASONRY VENEER (COMMON BOND)

8 PRE-FINISHED SHEET METAL SOFFIT PANELS 9 ANCHORED STONE MASONRY VENEER (TYPE 2) 12 4" MASONRY VENEER (SOLDIER)

13 PRE-FINISHED ALUMINUM-FRAMED ENTRANCE 14 PRE-FINISHED SHEET METAL PARAPET CAP 15 PRE-FINISHED SHEET METAL CANOPY

16 3/8" FIBER-CEMENT PANEL GAP (TYP.) 17 PRE-FINISHED SHEET METAL CONDUCTOR HEAD & DOWNSPOUT 18 PRE-FINISHED METAL PLATE WALL PANELS

19 METAL-FACED INSULATED WINDOW PANEL 20 1" INSULATED GLASS UNIT

21 BACKLIT PIN-MOUNTED PRE-FINISHED METAL SIGNAGE 22 WALL HYDRANT (RE: PLMG)

23 24"x30" METAL ACCESS DOOR 24 1/2" DEEP EIFS RECESS

25 3/4" DEEP V-GROOVE EIFS REVEAL

26 BACK-LIT STAINLESS STEEL POST-MOUNTED FIRE DEPARTMENT CREST

27 1/2" METAL PANEL REVEAL

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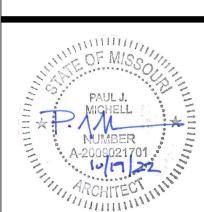
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CITY OF LEE'S SUMMIT

REVISIONS:

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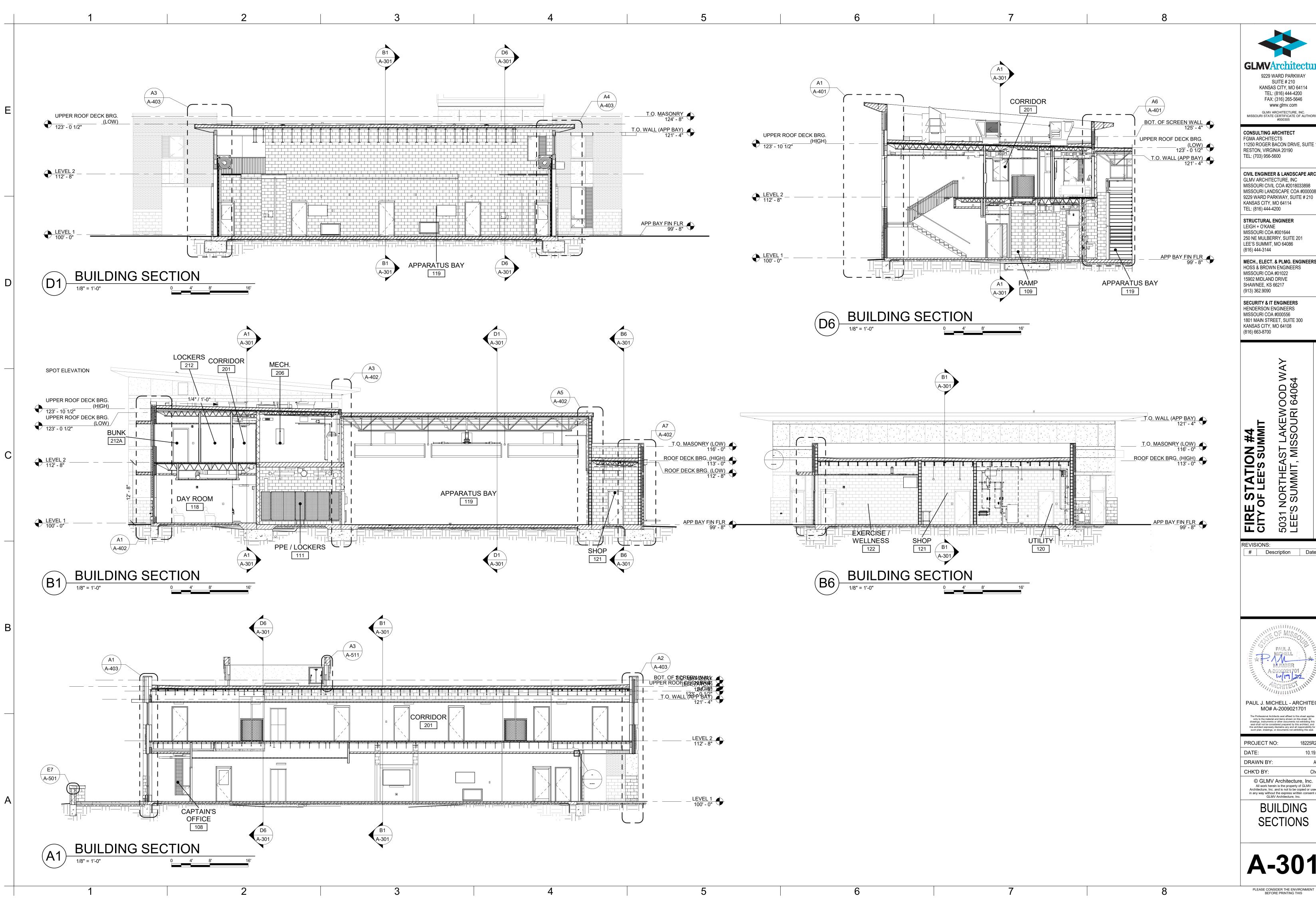
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BUILDING **ELEVATIONS** 

**A-202** 



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5031 NORTHI LEE'S SUMMI

# Description Date

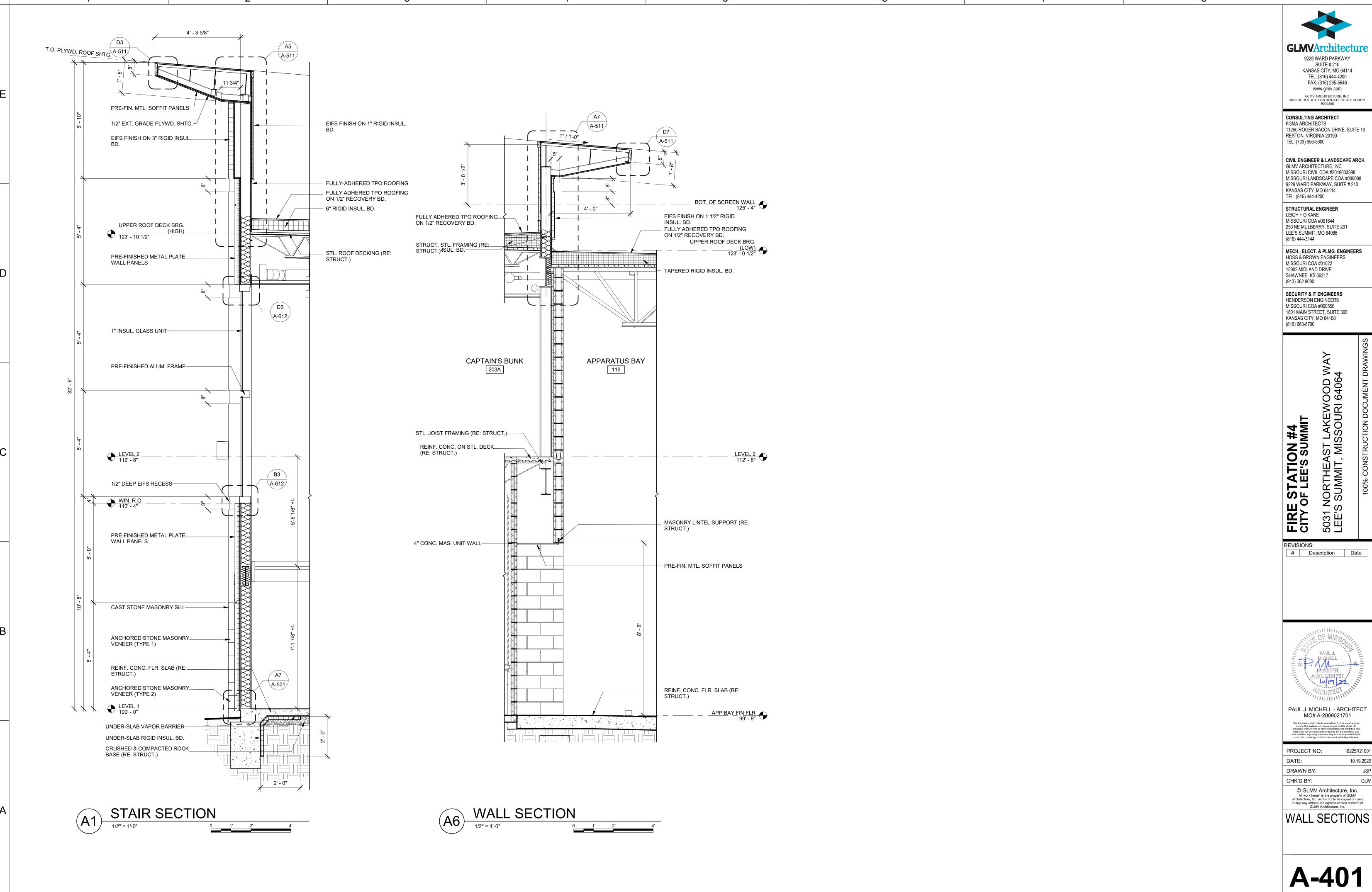


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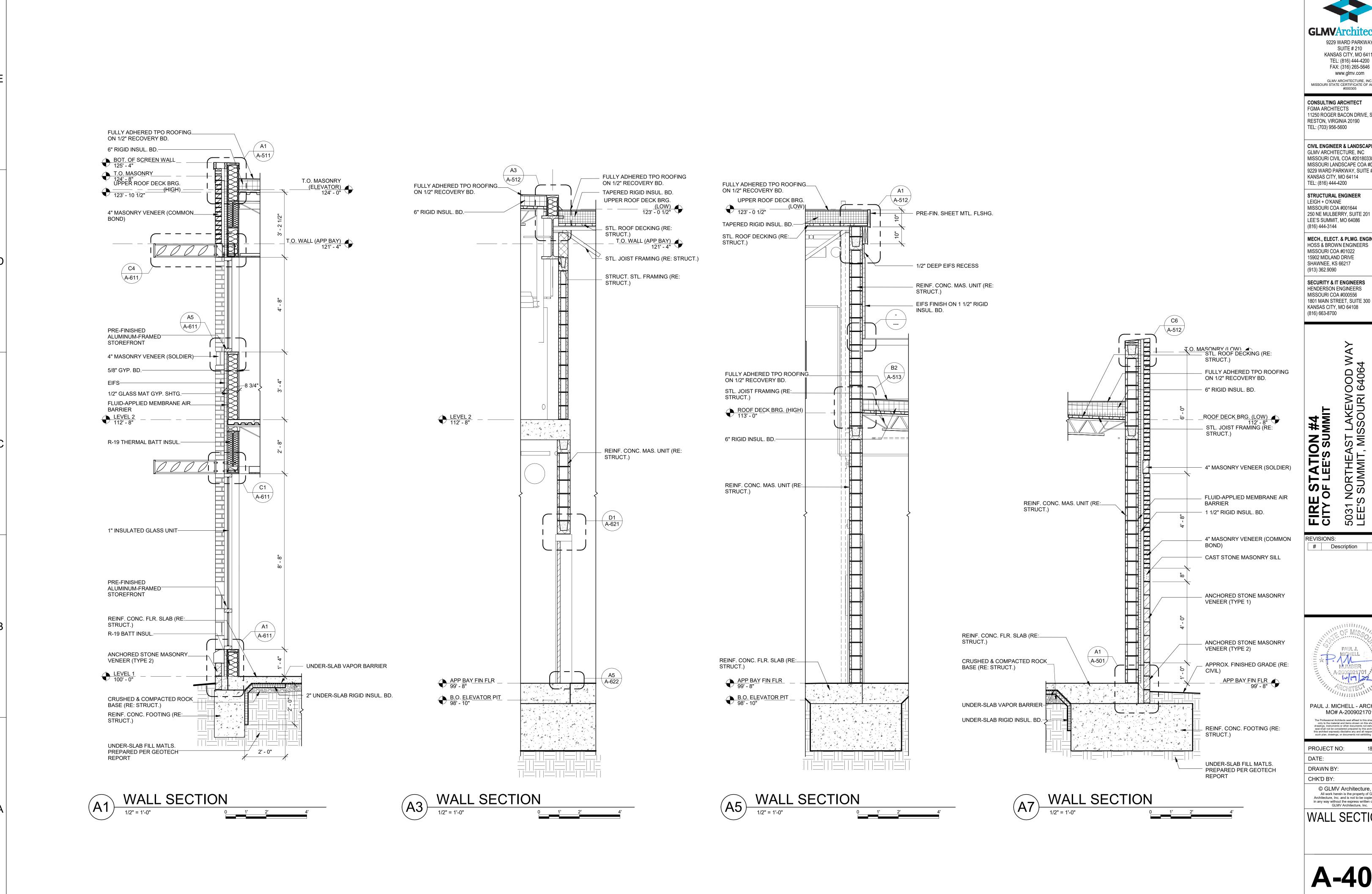
BUILDING

A-301



18225R21001

10.19.2022



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STRUCTURAL ENGINEER LEIGH + O'KANE MISSOURI COA #001644 250 NE MULBERRY, SUITE 201 LEE'S SUMMIT, MO 64086

MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE SHAWNEE, KS 66217

**SECURITY & IT ENGINEERS** HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108

OOD 6406

# Description Date

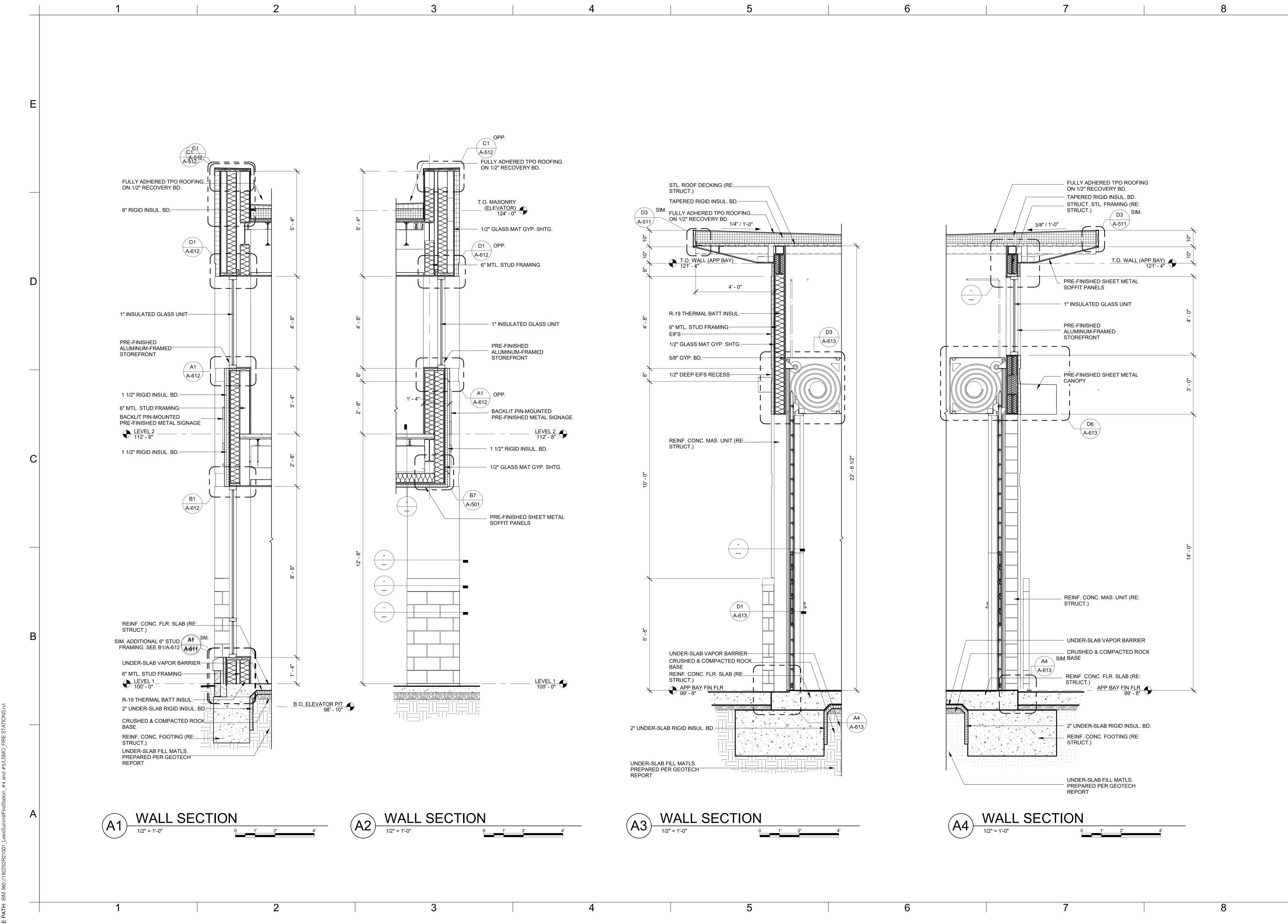


PAUL J. MICHELL - ARCHITECT MO# A-2009021701

18225R21001

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(816) 444-3144 MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE

SHAWNEE, KS 66217 (913) 362.9090 **SECURITY & IT ENGINEERS** HENDERSON ENGINEERS MISSOURI COA #000556

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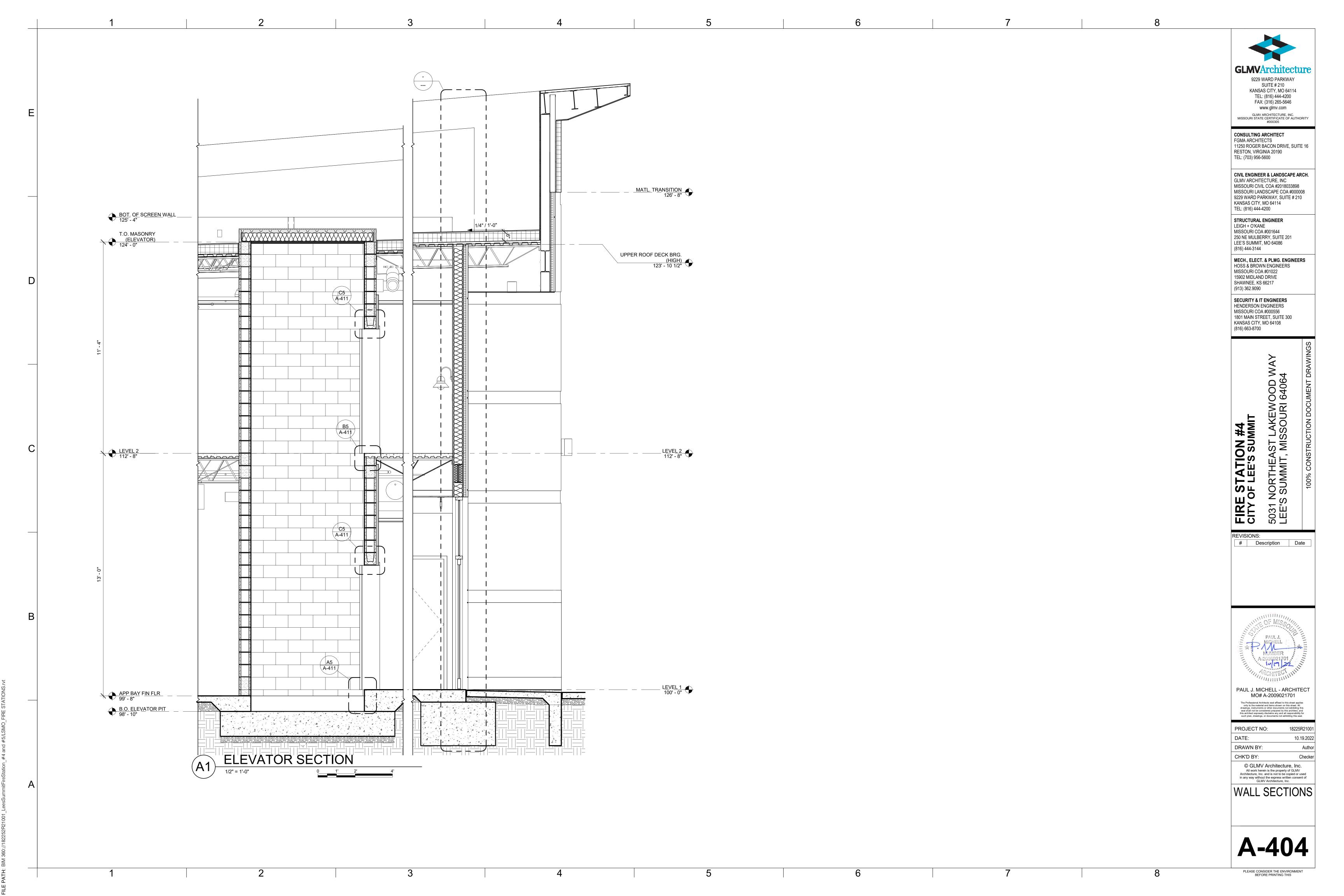
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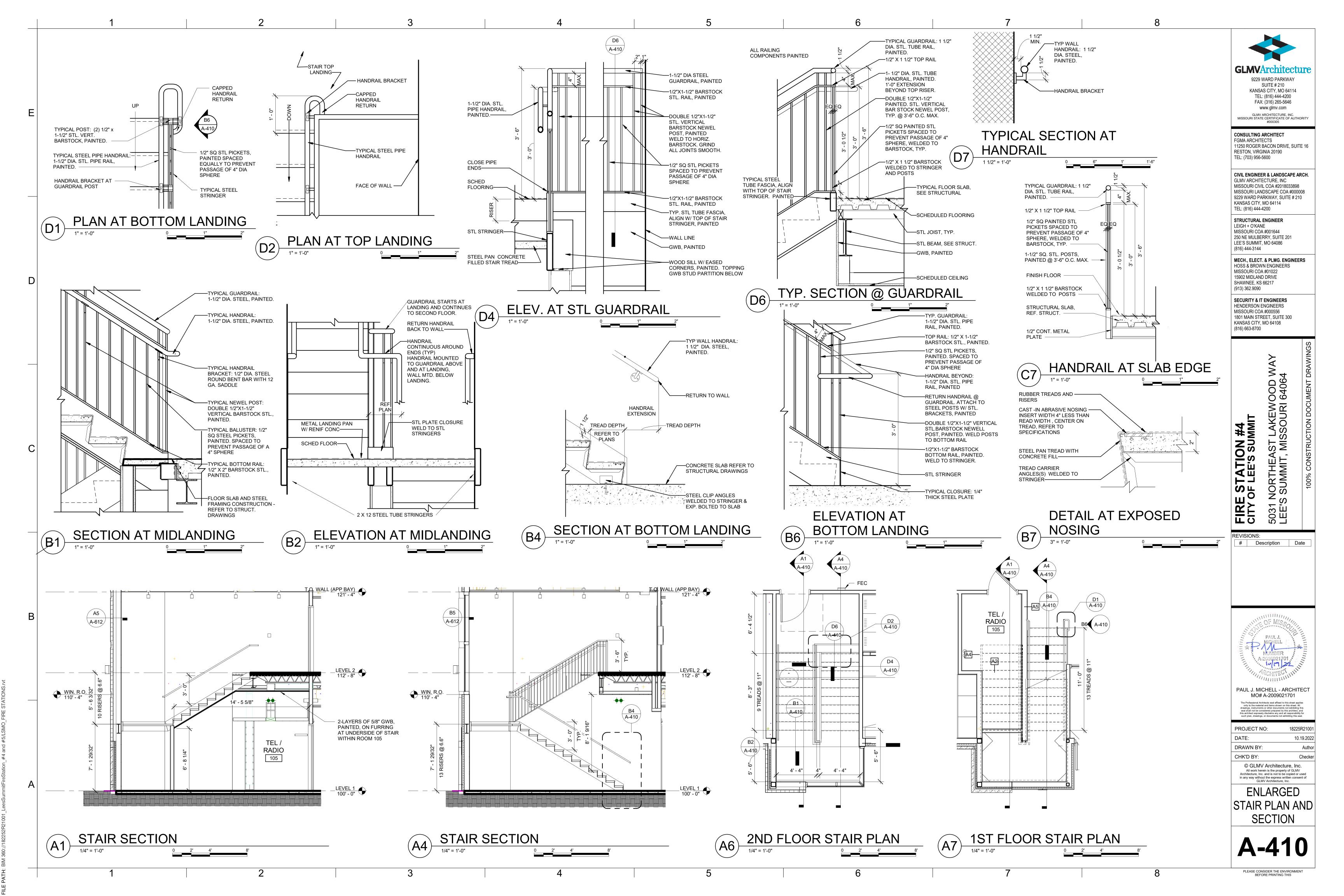


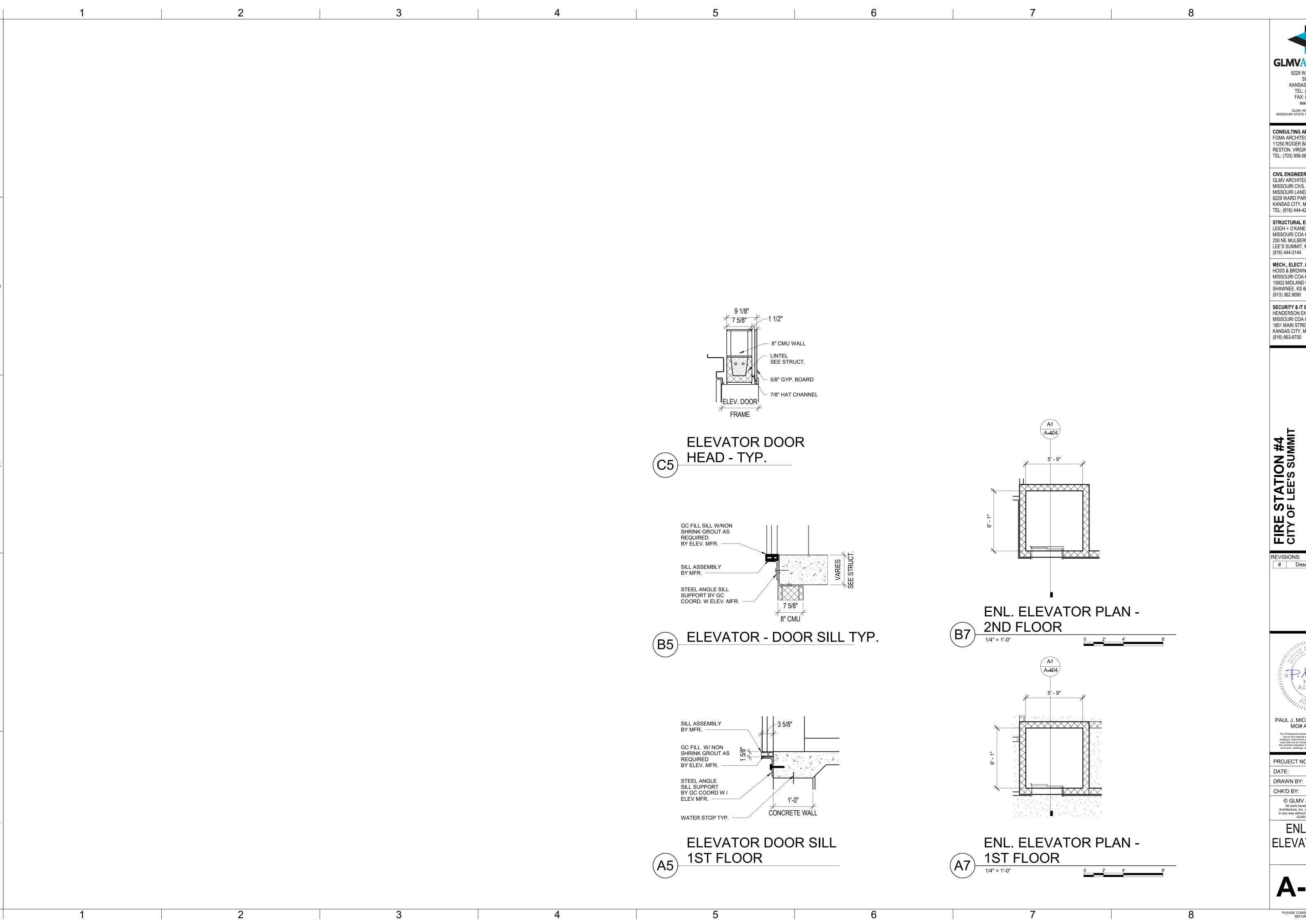
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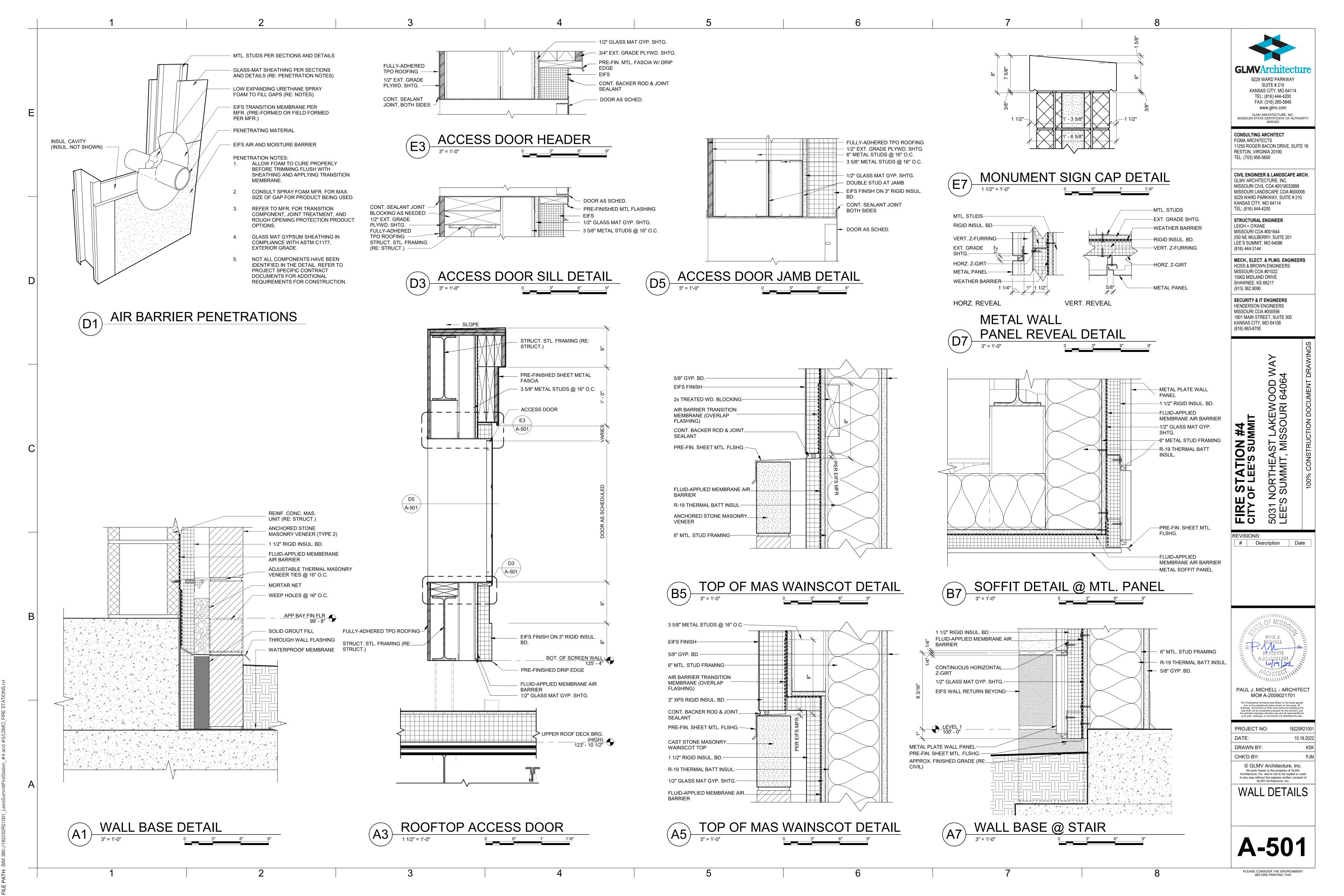
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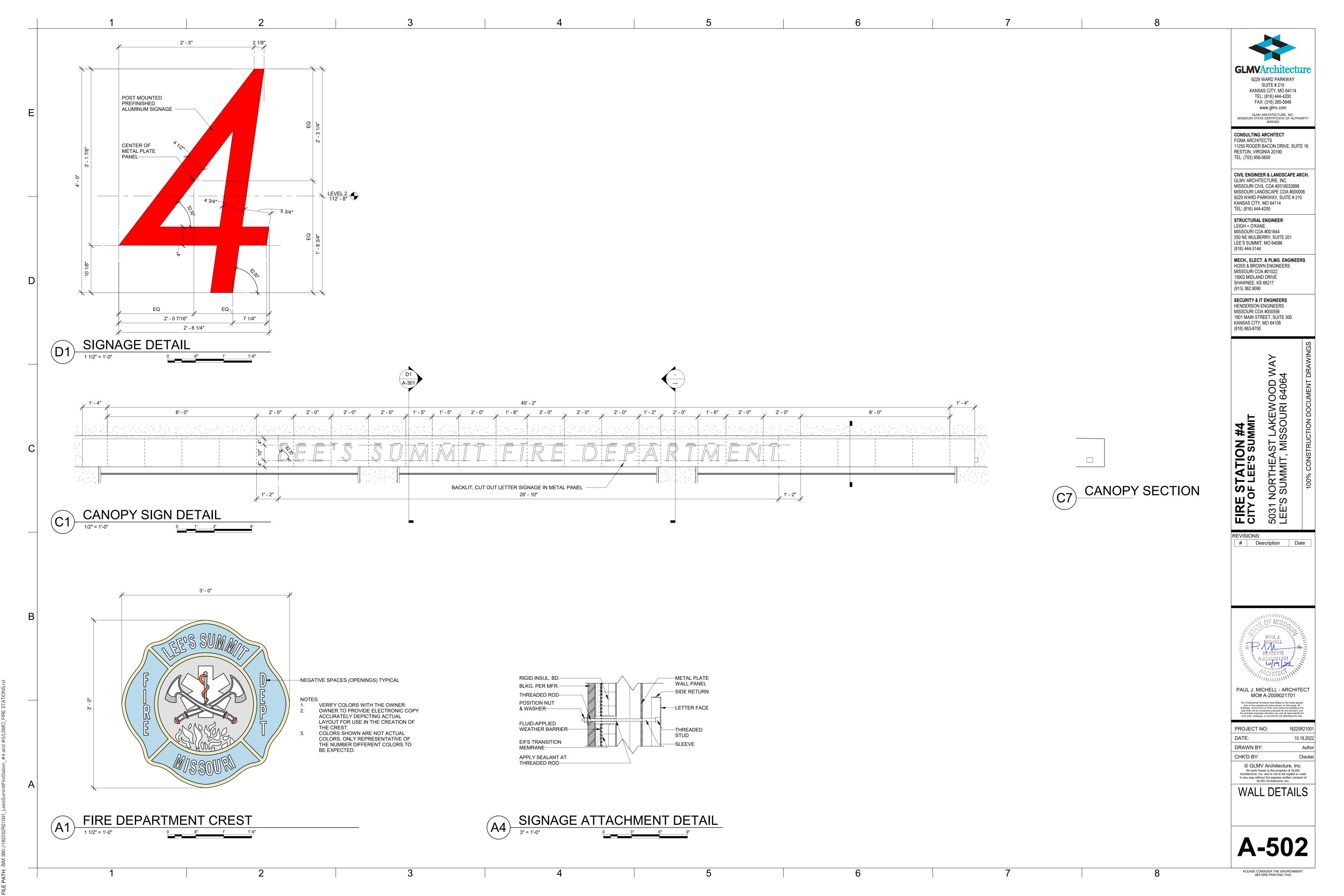


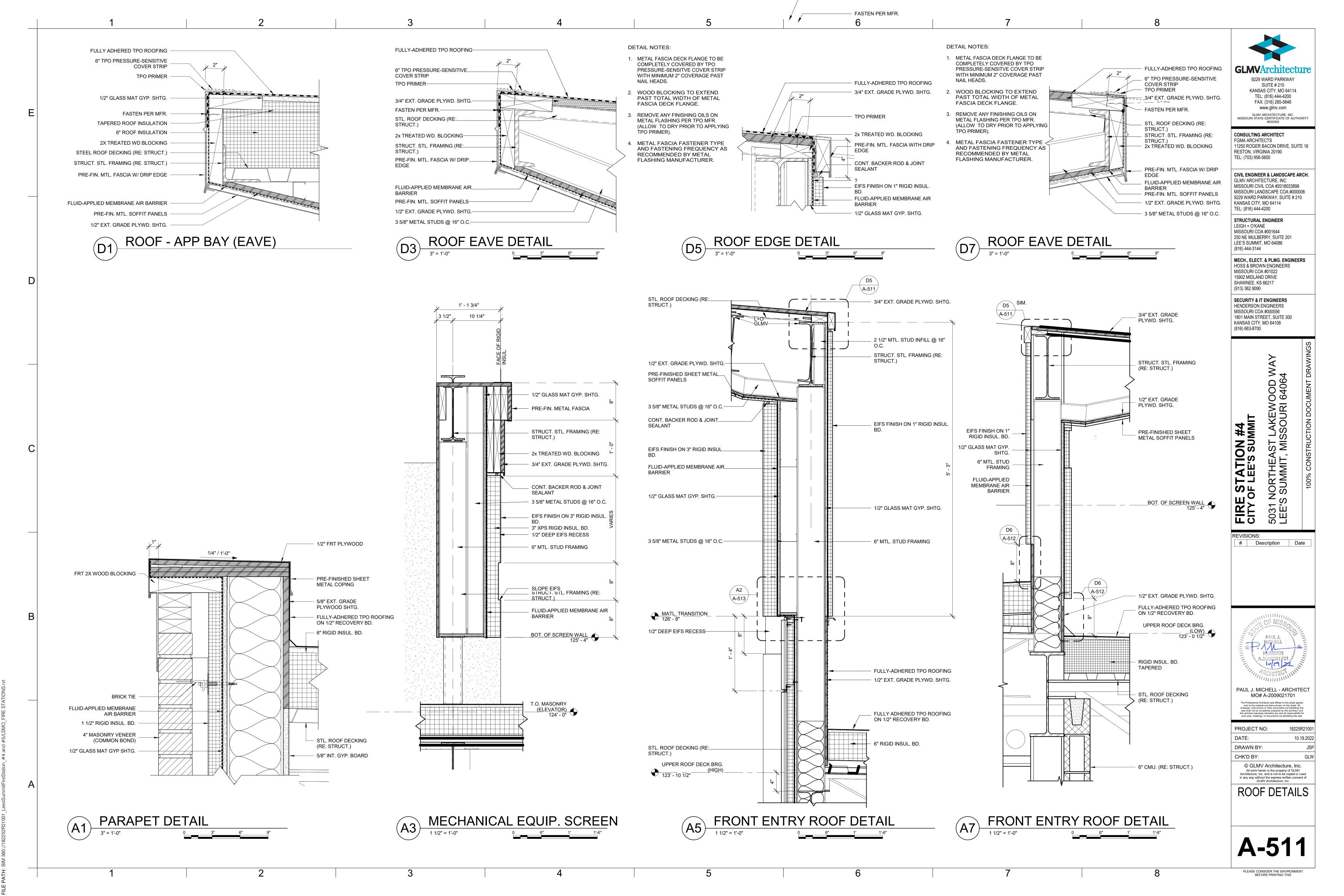
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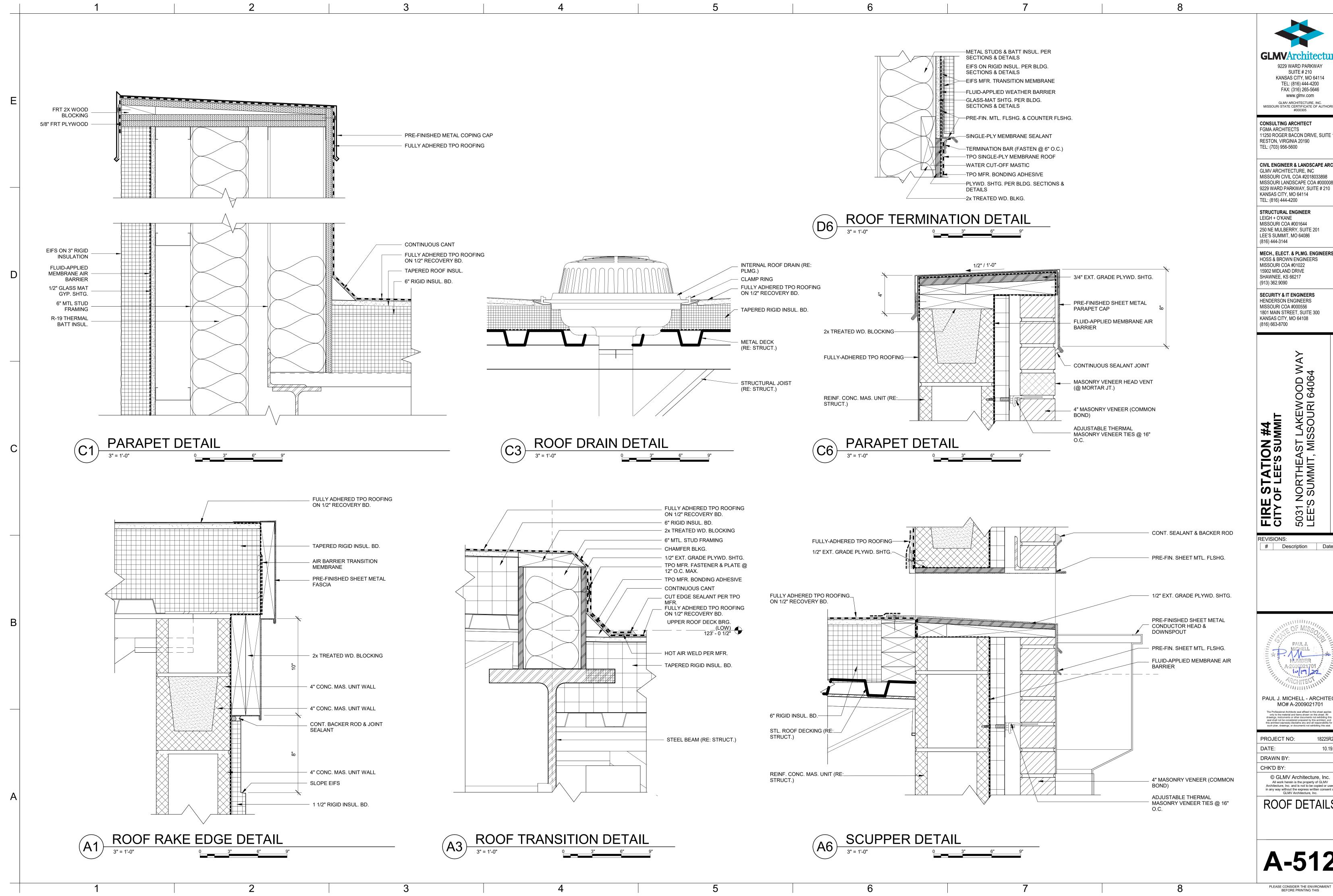
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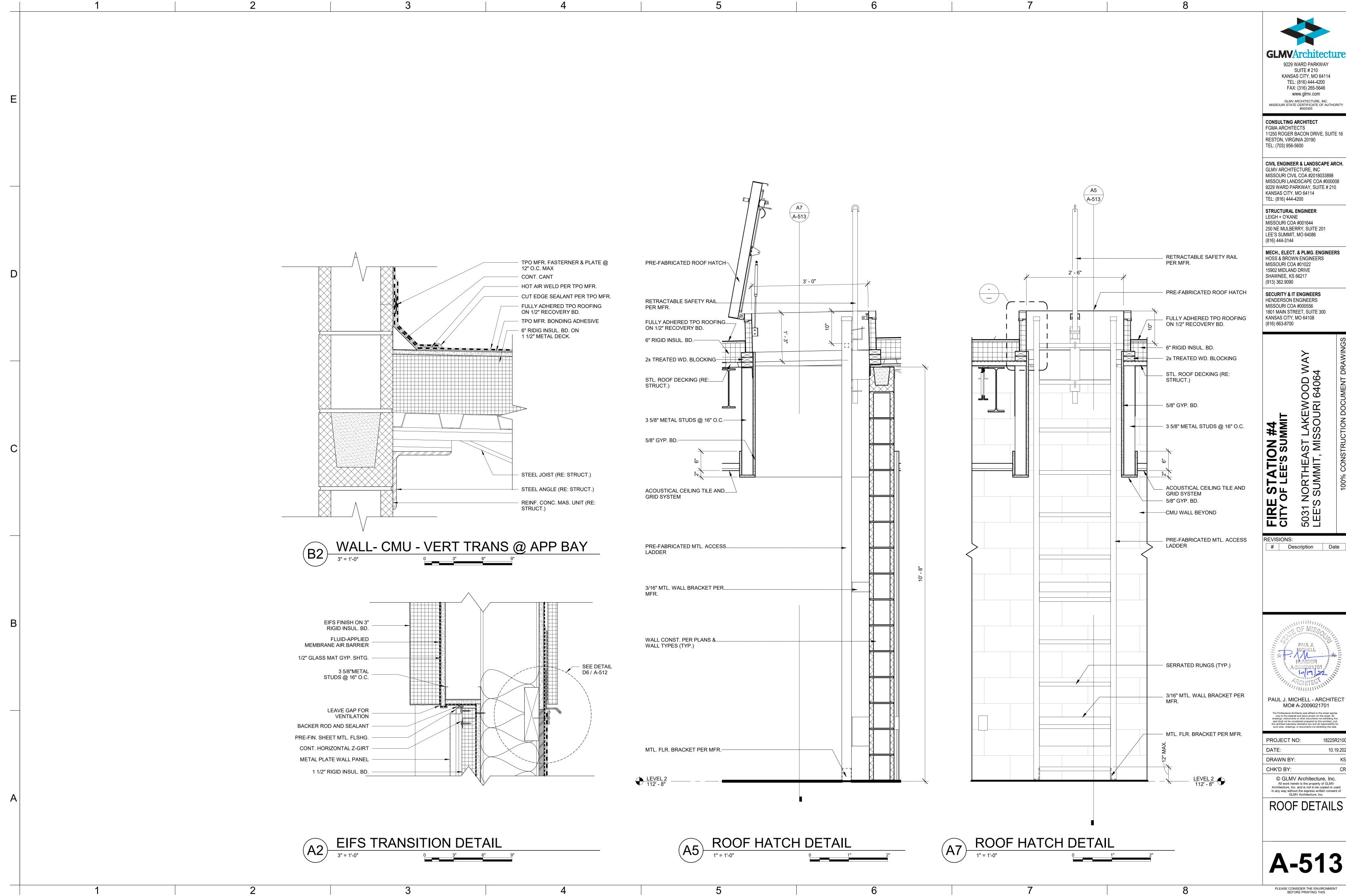
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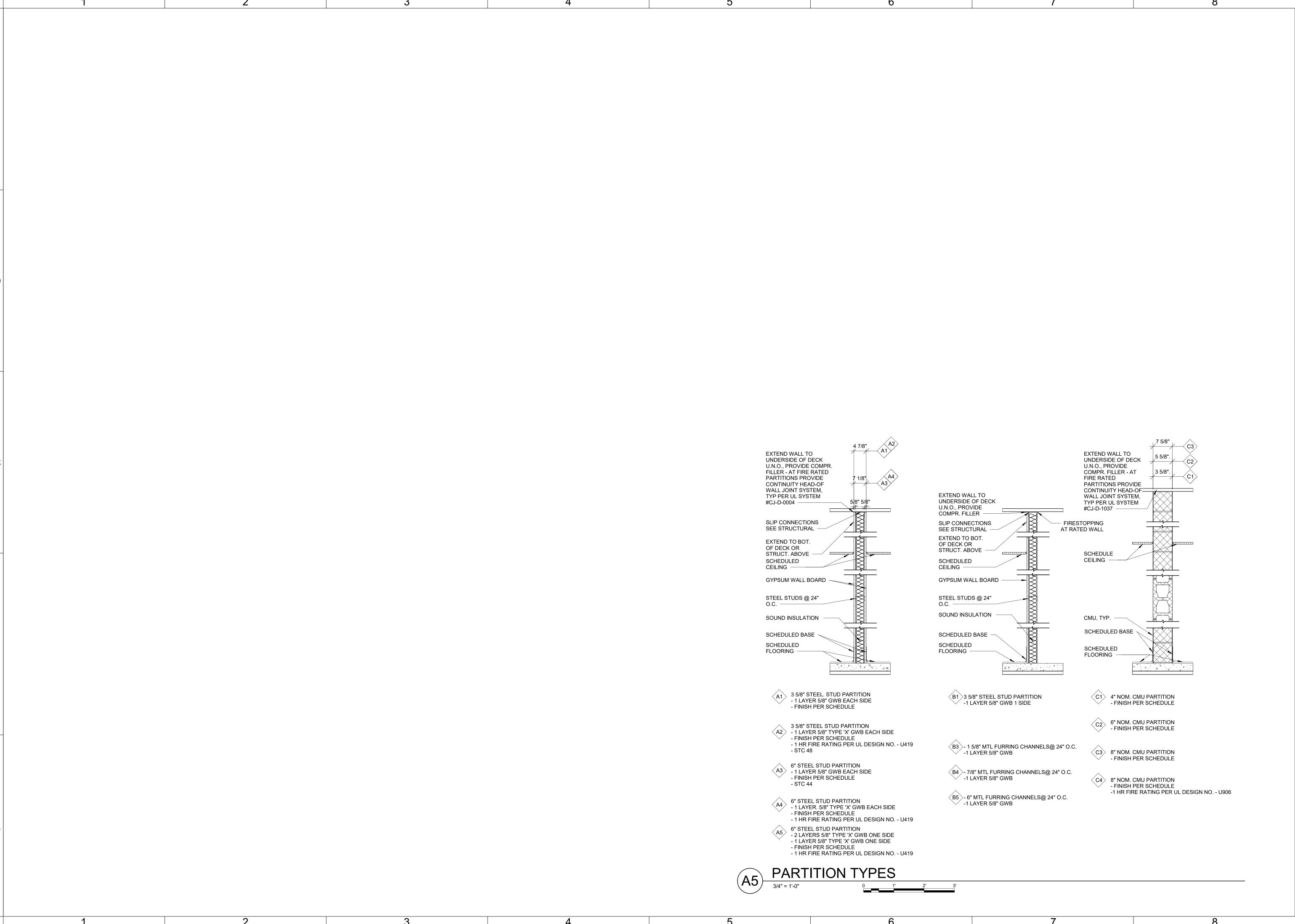
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MISSOURI COA #01022
15902 MIDLAND DRIVE
SHAWNEE, KS 66217

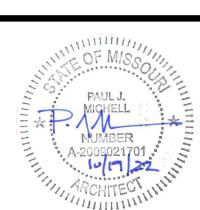
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HENDERSON ENGINEERS
MISSOURI COA #000556
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MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108 (816) 663-8700

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:
# Description Date



PAUL J. MICHELL - ARCHITECT MO# A-2009021701

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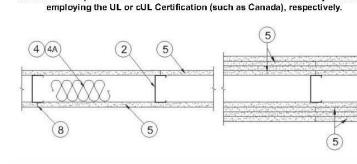
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PARTITION

TYPES

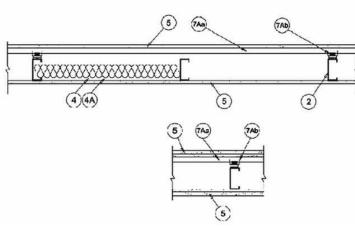
A-60

September 13, 2019 Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)



Design No. U419

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep ached to floor and ceiling with fasteners 24 in. OC may CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25 ™ Track

CRACO MFG INC — SmartTrack25 ™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25 M Track

FUSION BUILDING PRODUCTS — Viper25 ™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25 ™ Track

1B. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in, wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ng with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper 20 1M Track MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members\* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in, galv steel, min width to accommodate stud size, with min 1 in, long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in OC max SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members\* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in, galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling TELLING INDUSTRIES L L C — TRUE-TRACK $^{\mathrm{TM}}$ 

1J. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as lescribed in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel raming. Horizontal edge joints and horizontal butt joints on opposite sides of stude need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

IP-X1 IP-X2 IPC-AR SCX SHX or 3/4 in thick Types IP-X3 or ULTRACODE 2B. Framing Members\* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in, OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR,

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25TM

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members\* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

 ${\bf QUAIL\ RUN\ BUILDING\ MATERIALS\ INC}$  — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type

2E. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C - Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights. **SUPER STUD BUILDING PRODUCTS** — The Edge

2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height STUDCO BUILDING SYSTEMS — CROCSTUD

spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™ 2l. Framing Members\* — Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a

max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only. TELLING INDUSTRIES L L C — Viper25™

2J. Framing Members\* — Metal Studs — Not Shown — In lieu of Item 2 proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly height TELLING INDUSTRIES L L C — Viper20Th

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corr steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. EB METAL INC — NITROSTUD

2L. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be OLMAR SUPPLY INC - PRIMESTUD

2M. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-prote steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in less than assembly height MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members\*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height STEEL INVESTMENT GROUP L L C - AlphaSTUD

use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min, bare metal thickness). Studs cut 3/8 in, to 3/4 in, less in lengths than assembly CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick ructural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from vallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min, head diam, of 0.292 in, at maximum 6 in, OC, in the perimeter and 12 in, OC, in the field. When used, gypsum panels attached over OSB or plywood panels and

fastener lengths for gypsum panels increased by min. 1/2 in. 4. Batts and Blankets\* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated

under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of

4A. Batts and Blankets\* — (Optional) — Placed in stud cavities, any class fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance See Batts and Blankets (BKNV or BZJZ) Categories for names of

4B. Batts and Blankets\* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See Batts and Blankets (BKNV or BZJZ) Categories for names of

4C. Fiber, Sprayed\* — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product, See Fiber, Sprayed (CCAZ)

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium

Gypsum Board\* — Gypsum panels with beveled, square or tapered edges applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in, thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in, thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or

UNITED STATES GYPSUM CO — 1/2 in, thick Type C, IP-X2, IPC-AR or WRC: 5/ in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX,

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members\*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board\* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide. applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6 CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board\*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with -1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board\* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be ked as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL DRYWALL SFZ LLC - Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or norizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent yers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in, thick Type C. IP-X2 or IPC-AR: 5/8 in, thick Type AR, C. IP-AR. IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE thick Type SCX, SGX, SHX, IP-X1, AR, C., FRX-G, IP-AR, IP-X2, IPC-AR, ULIX 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX,

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in, thick Types IP-X3 or ULTRACODE

5H. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A. (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. /ertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see tem 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5l. Gypsum Board\* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in, or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long

Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimete and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead packed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the ace of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) taggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of study need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr,

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 20	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX

3 hr and 4 hr ratings are as follows:

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long or 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 n. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) Resilient furring channels fabricated from min 25 MSG corrosion-protected stee spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A. 7A. Framing Members\* — (Optional on one or both sides, not shown, for single or

ouble layer systems) — As an alternate to Item 7, furring channels and Steel

Framing Members as described below:

(2.75), RSIC-V (2.75).

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in tem b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. inimum self-drilling, S-12 steel screw through the center gromm RSIC-V and RSIC-V (2.75) clips secured to study with No. 8 x 9/16 n. minimum self-drilling, S-12 steel screw through the center hole Furring channels are friction fitted into clips, RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1

7B. Framing Members\* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

> 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A. b. Steel Framing Members\* — Used to attach furring channels

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced

(Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum selfdrilling, S-12 steel screw through the center grommet. Furring hannels are friction fitted into clips PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as

> a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the enter hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E. Steel Framing Members\* — Used to attach furring channels

(Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs

with No. 8 x 2-1/2 in. coarse drywall screw through the center hole.

7F. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:

urring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels rerlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. Steel Framing Members\* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance

7G. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

> a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in tape and joint compound may be omitted when gypsum panels are supplied with a

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel

siding, brick veneer or stucco, meeting the requirements of local code agencies,

nstalled over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of 10. Caulking and Sealants\* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

Required behind vertical joints.

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of study and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations.

11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations 12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or

in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4

in, diam by max 0.125 in, thick lead discs compression fitted or adhered over steel

0.140 in, thick lead discs compression fitted or adhered over steel screw head

screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C" 12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max

Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D". 13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L 201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in, on center CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

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

Last Updated on 2019-09-13

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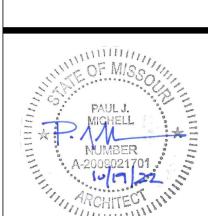
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# Description

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PAUL J. MICHELL - ARCHITECT MO# A-2009021701

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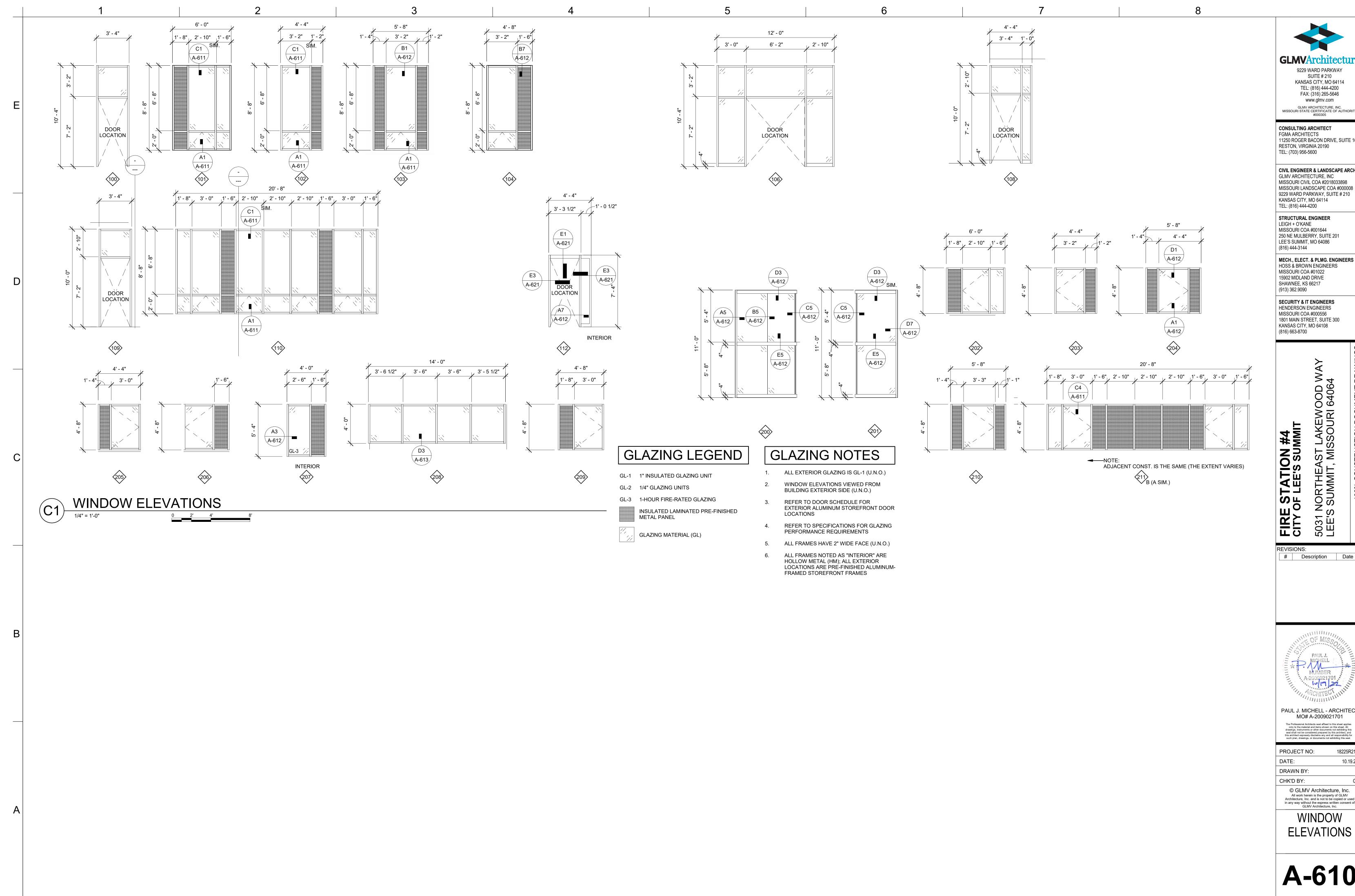
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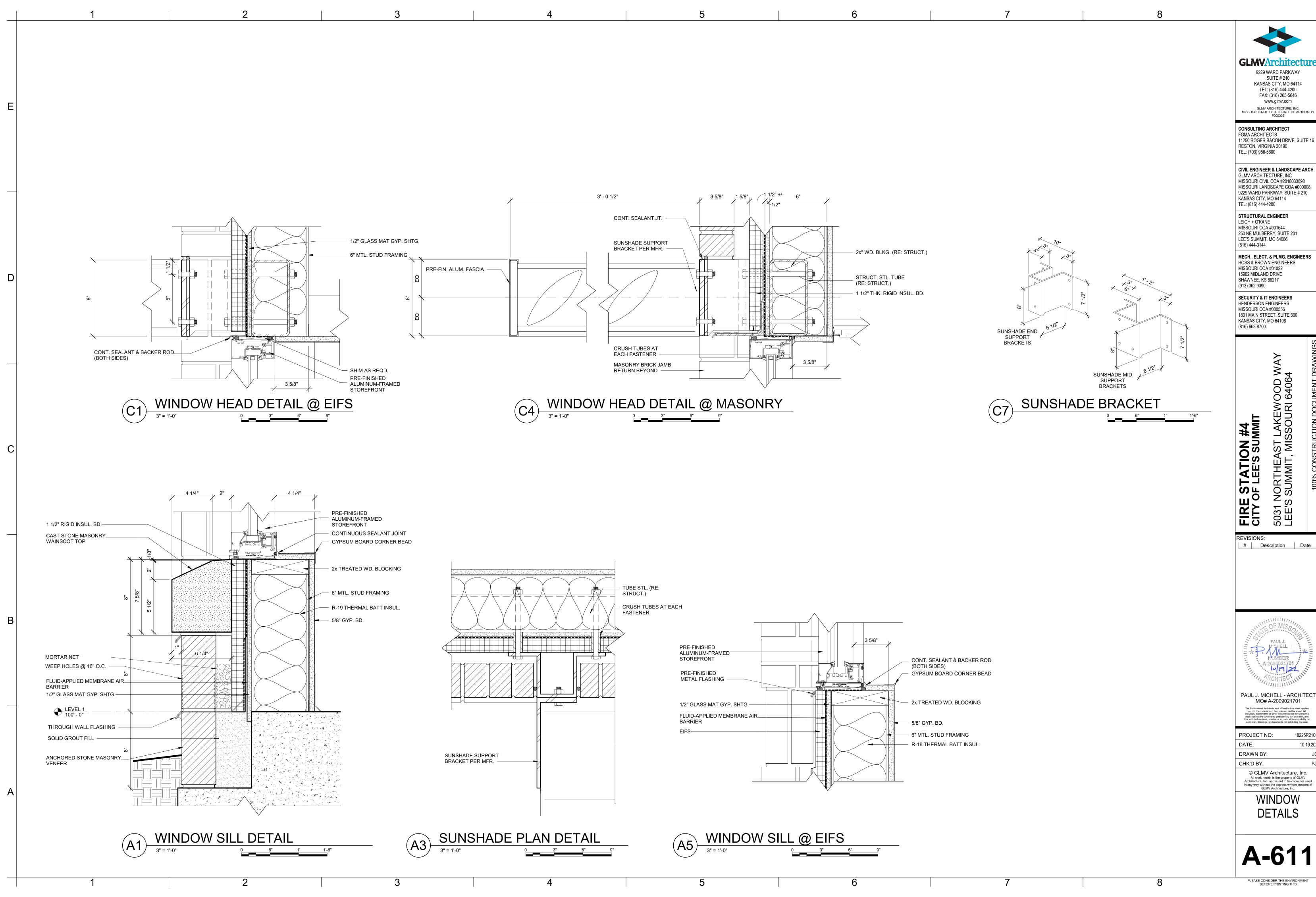
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> EAST LAKEWOOD WAY IT, MISSOURI 64064 5031 NORTHI LEE'S SUMMI

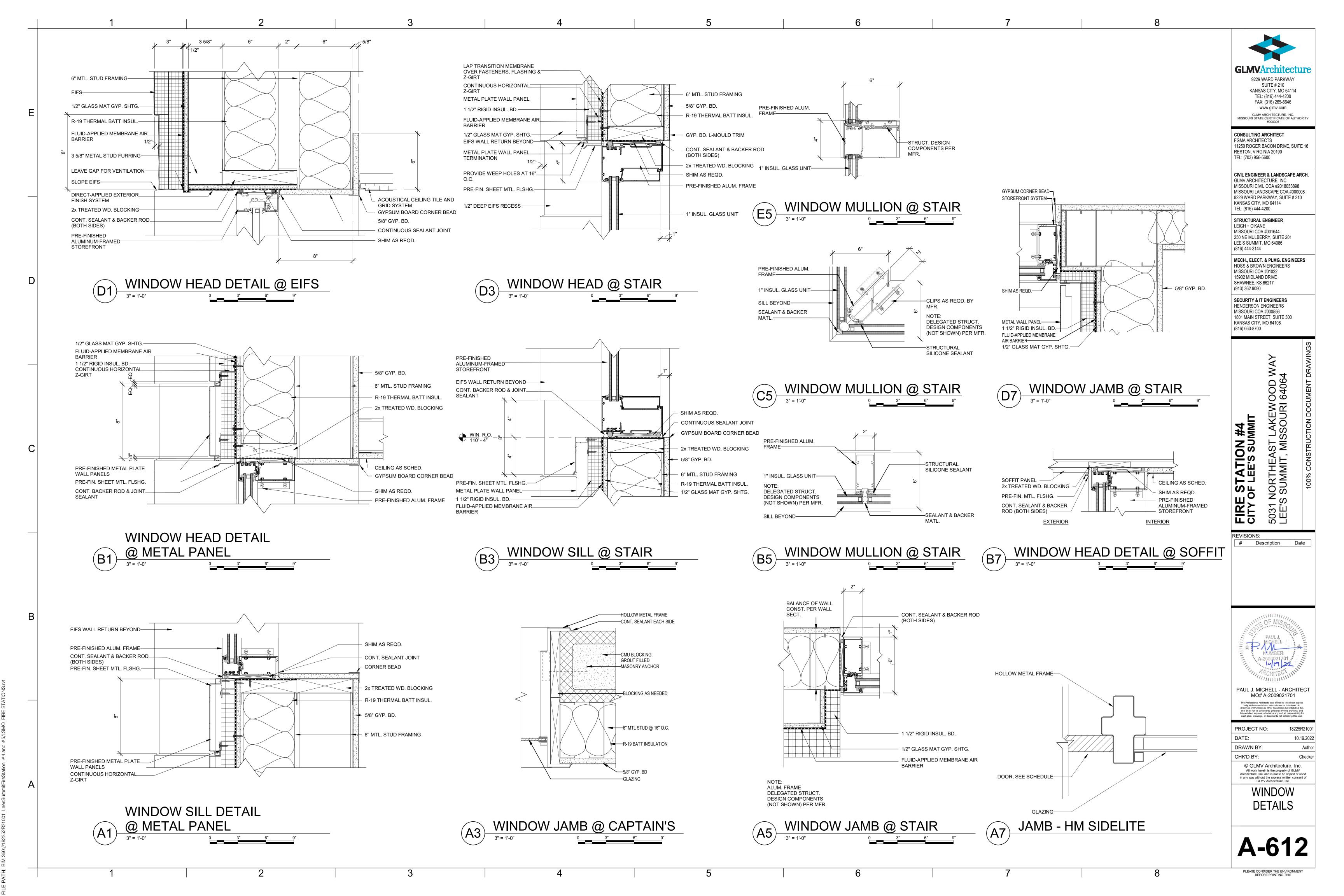
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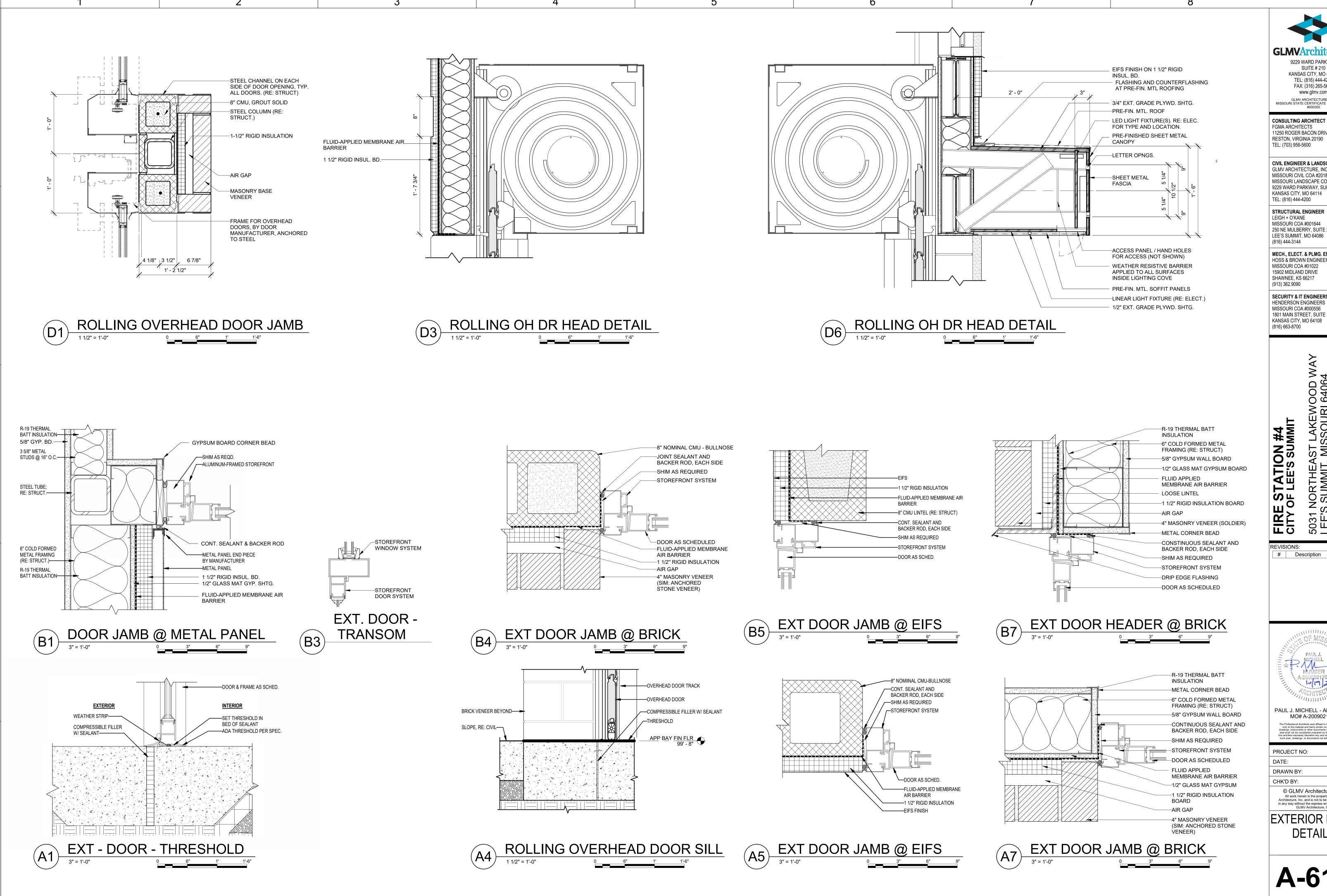


PAUL J. MICHELL - ARCHITECT MO# A-2009021701

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DATE:	10.19.2022		
DRAWN BY:	JSP		
CHK'D BY:	PJM		
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**WINDOW** 





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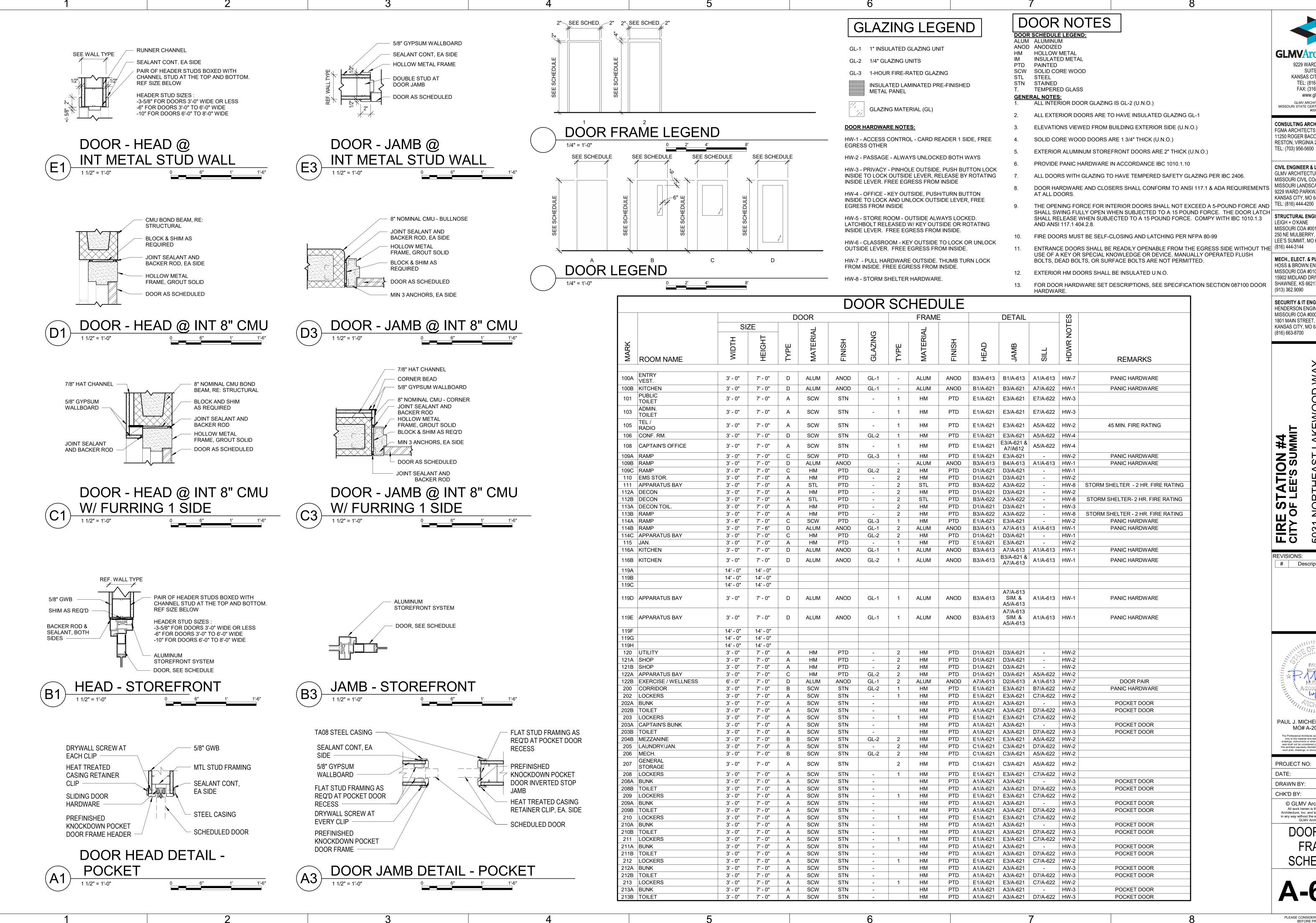
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SHALL SWING FULLY OPEN WHEN SUBJECTED TO A 15 POUND FORCE. THE DOOR LATCH

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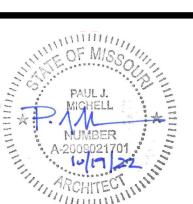
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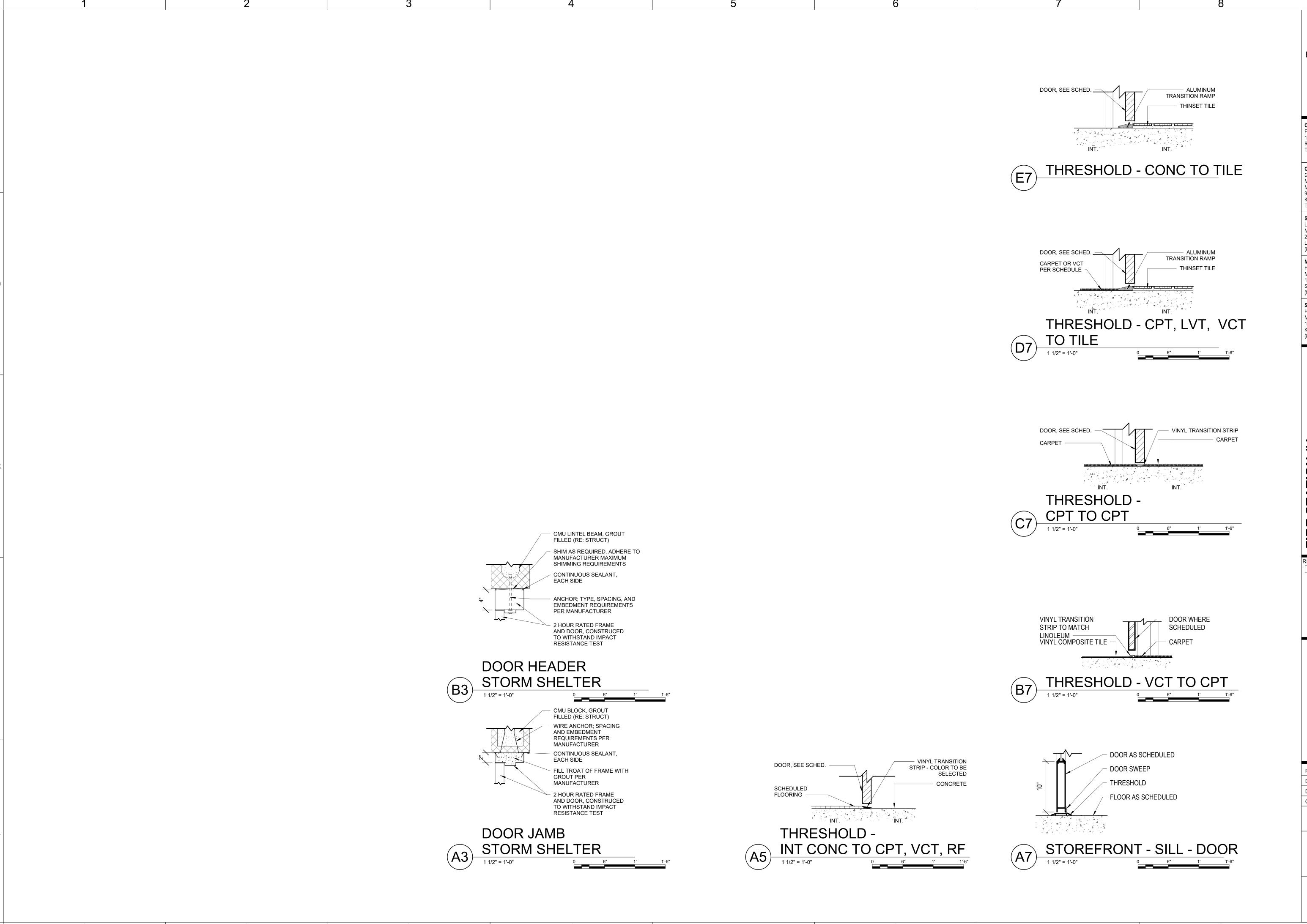


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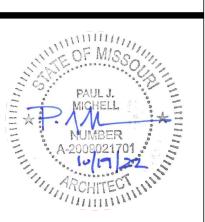
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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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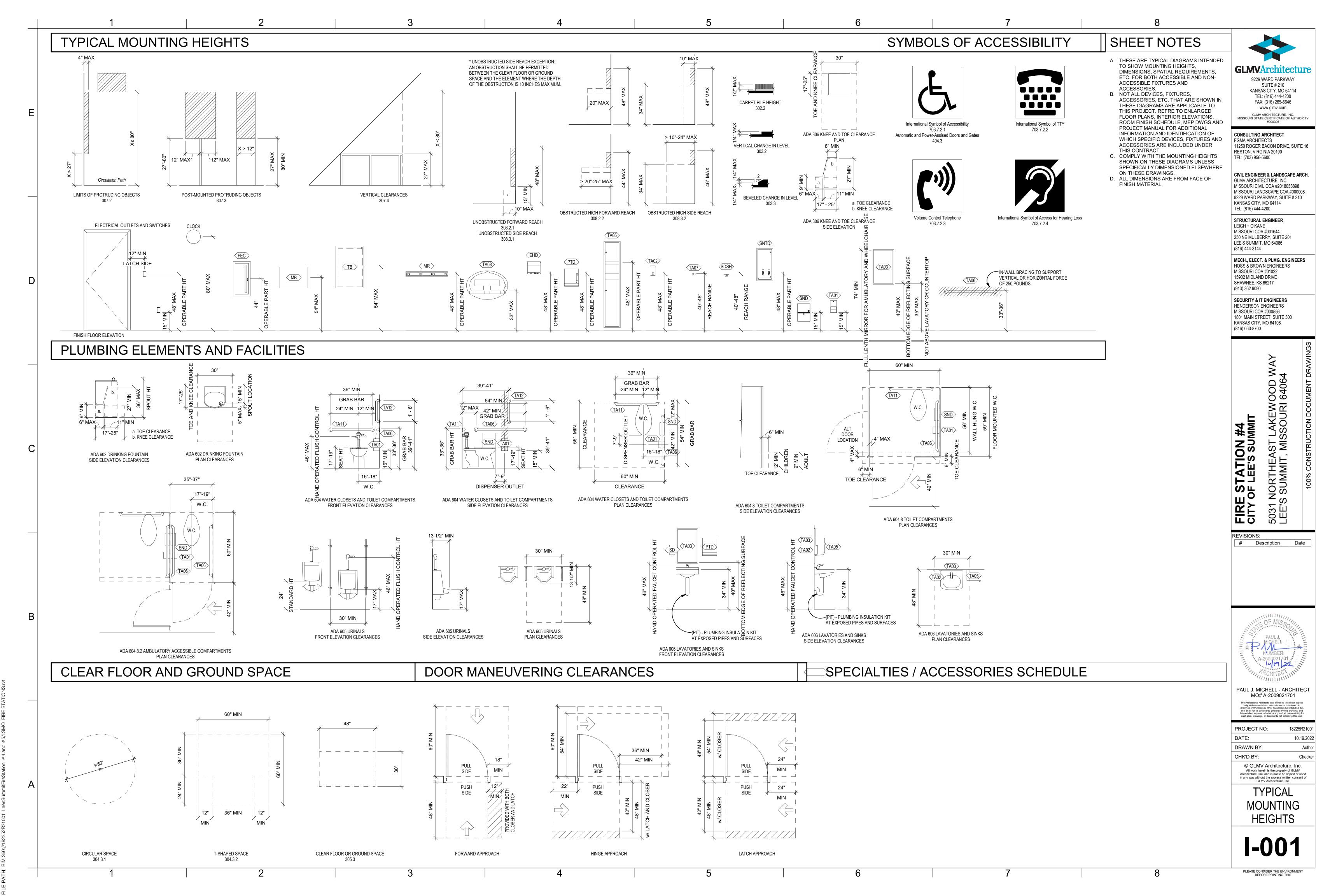
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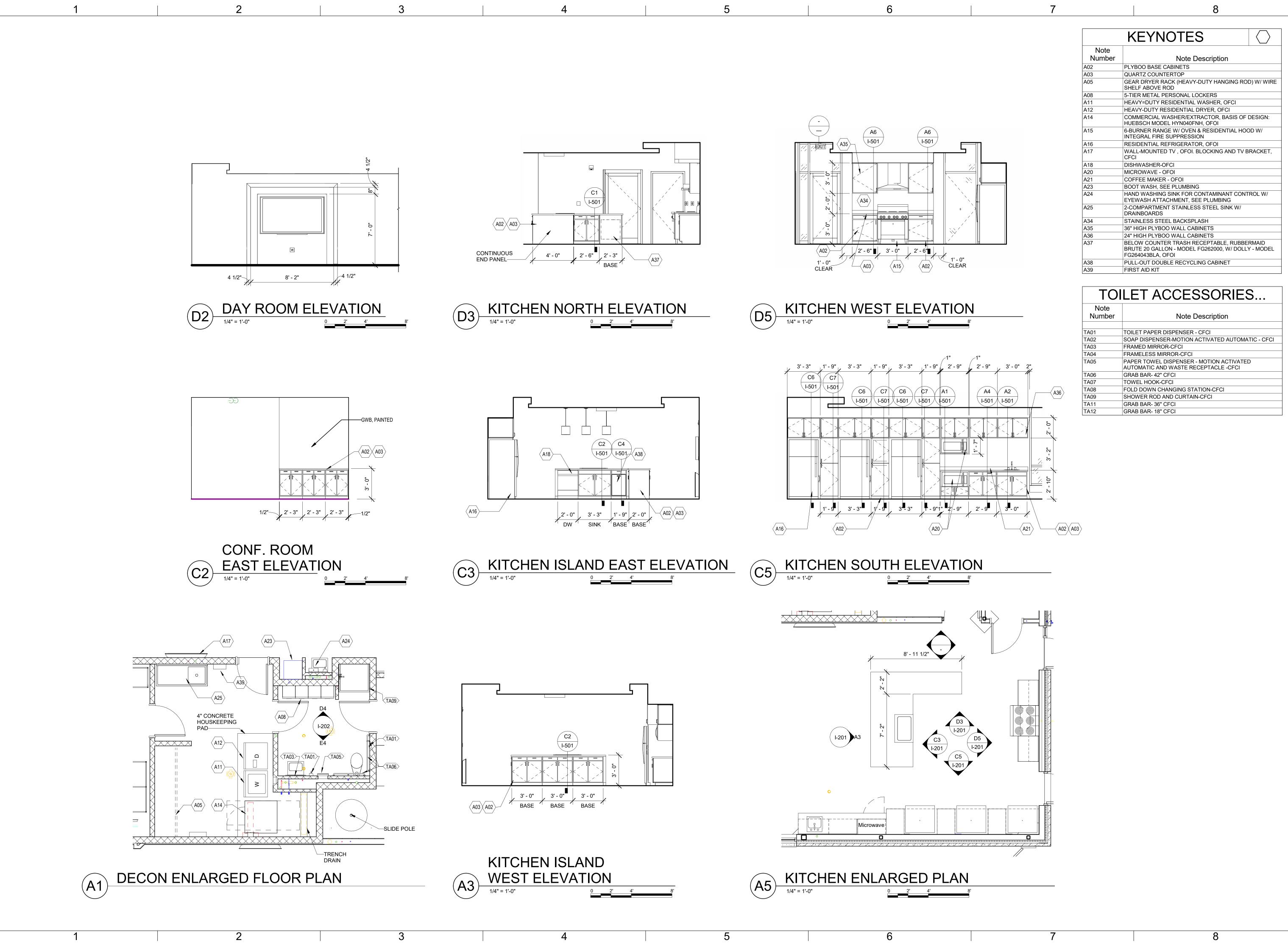
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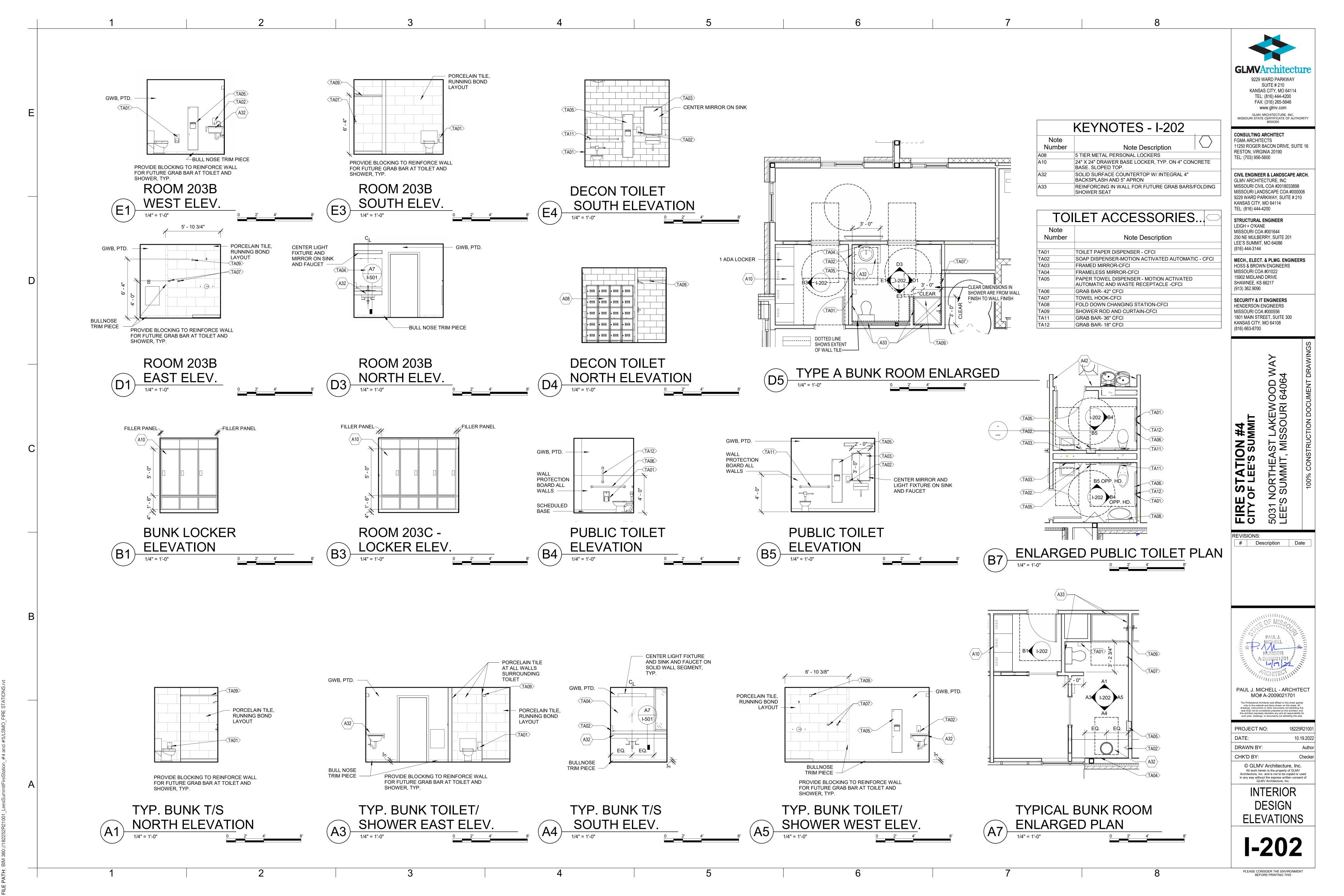
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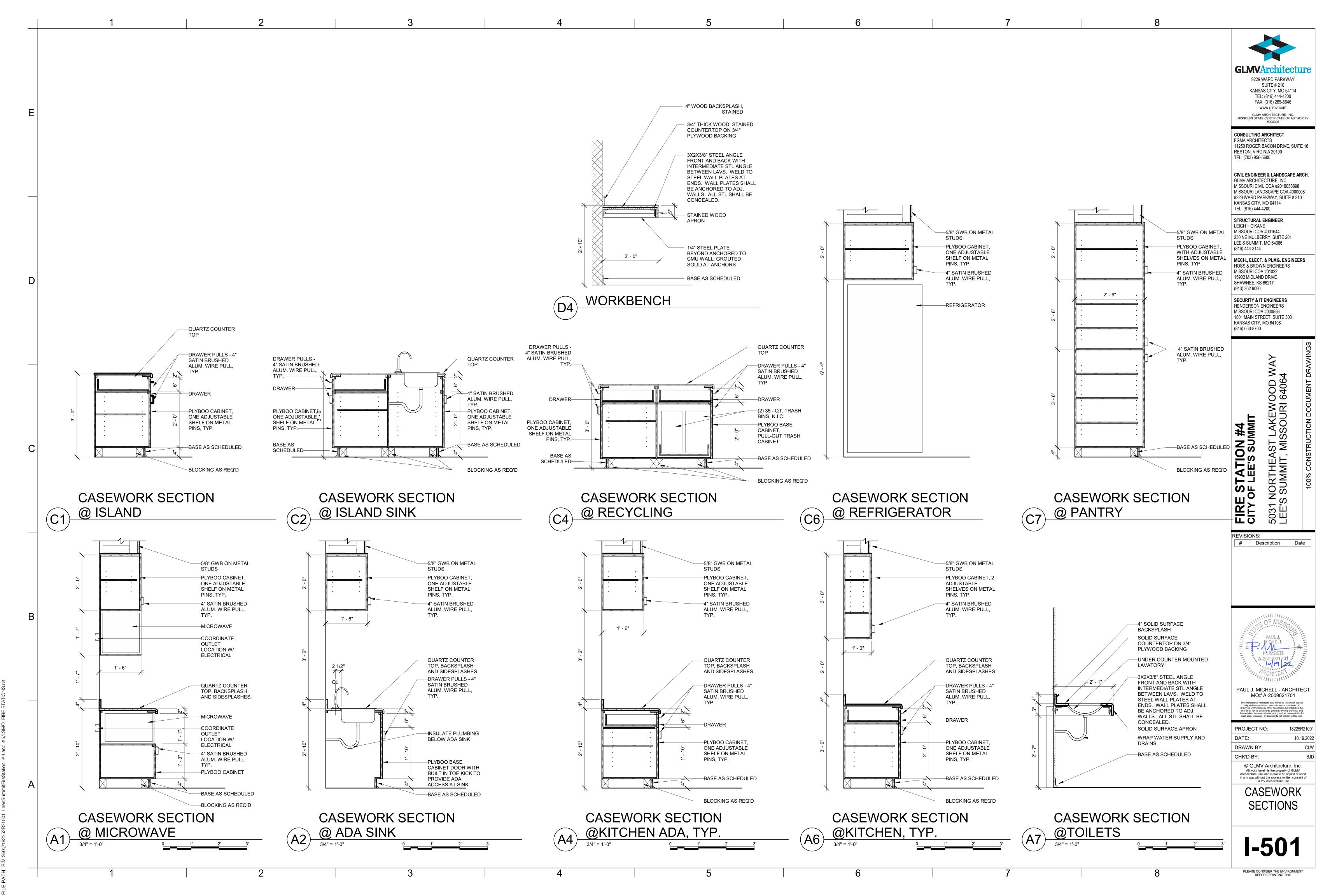
OF SIGN

DESIGN ELEVATIONS

**I-201** 







	1	2	3	4			5				6			7
				ROOM NO.	NAME	FLOOR	BASE TYPE/ FINISH	NORTH MAT. / FIN.	EAST MAT. / FIN.	SOUTH MAT. / FIN.	WEST MAT. / FIN.	CEILING	IR WET	REMARKS
E				100	ENTRY VEST.	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD		
					TOILET	RF			GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD		OTECTION BOARD ON WET WALL
					TOILET	RF VCT			GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	ACT EXP/PTD	PRO	OTECTION BOARD ON WET WALL
					RADIO	СРТ			GWB/PTD	GWB/PTD	GWB/PTD	ACT		
				108		СРТ			GWB/PTD	GWB/PTD	GWB/PTD	ACT		
				110	EMS STOR.	SC SC	RB	CMU/PTD	CMU/PTD CMU/PTD	GWB/PTD GWB/PTD	CMU/PTD CMU/PTD	EXP/PTD EXP/PTD		
						SC SC			CMU/PTD CMU/ EPOXY PTD	CMU/PTD CMU/ EPOXY PTD	CMU/PTD CMU/ EPOXY PTD	EXP/PTD EXP/PTD		
				113	DECON TOIL.	SC	RB				CMU/ EPOXY PTD	EXP/PTD		
					RAMP JAN.	SC	RB		GWB/PTD	GWB/PTD	CMU/PTD	EXP/PTD		
				116	KITCHEN	POLISHED CONC POLISHED CONC			GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	ACT DECORATIVE ACT DECORATIVE		
					DAY ROOM	CPT SC	RB	GWB/PTD	GWB/PTD CMU/PTD	GWB/PTD CMU/PTD	GWB/PTD CMU/PTD	ACT DECORATIVE EXP/PTD		
						SC SC			CMU/PTD CMU/PTD	CMU/PTD CMU/PTD	CMU/PTD CMU/PTD	EXP/PTD EXP/PTD		
D					EXERCISE / WELLNESS STAIR	RAF RT			CMU/PTD GWB/PTD	CMU/PTD GWB/PTD	CMU/PTD GWB/PTD	ACT ACT		
						СРТ			GWB/PTD	GWB/PTD	GWB/PTD	ACT	COF GUA	RRIDOR WALLS TO RECEIVE CORNER ARDS
				202A	BUNK	CPT CPT	RB	GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	ACT ACT		
				203	LOCKERS	PT CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD/PT GWB/PTD	ACT		
				203B		PT PT			GWB/PTD GWB/PTD/PT	GWB/PTD PT	GWB/PTD GWB/PTD	ACT GWB/PTD		
				205	LAUNDRY/JAN.	PT SC			GWB/PTD GWB/PTD	CMU/PTD CMU/PTD	CMU/GWB/PT GWB/PTD	D ACT		
				207		SC			GWB/PTD	CMU/PTD	GWB/PTD			
				208	LOCKERS	CPT CPT			GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	ACT ACT		
						PT CPT				PT GWB/PTD	GWB/PTD/PT GWB/PTD	GWB/PTD ACT		
						CPT PT	PT		GWB/PTD GWB/PTD/PT	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD/PT	ACT GWB/PTD		
				210A	BUNK	CPT CPT	RB	GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	ACT ACT		
				211	LOCKERS	PT CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD/PT GWB/PTD	ACT		
C				211B	TOILET	PT PT	PT	PT	GWB/PTD/PT	GWB/PTD GWB/PTD				
				212A	BUNK	CPT CPT	RB	GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	GWB/PTD GWB/PTD	ACT ACT		
				213	LOCKERS	CPT CPT	RB	GWB/PTD	GWB/PTD/PT GWB/PTD GWB/PTD	GWB/PTD GWB/PTD GWB/PTD	GWB/PTD/PT GWB/PTD GWB/PTD	ACT ACT		
						PT			GWB/PTD/PT		GWB/PTD/PT			
В														
Δ														

## **GENERAL NOTES:**

**FURNITURE** 

2. ALL EXPOSED STRUCTURE IS TO BE PAINTED U.N.O.
3. PROVIDE WINDOW TREATMENTS AT ALL EXTERIOR

4. ALL WALL/CEILING/EXPOSED STRUCTURE PAINT

5. ALL TILED WALLS TO USE GLASS MAT BOARD 6. ALL ROOMS MARKED "WET" ARE TO RECEIVE WATER RESISTANT GWB

RESISTANT TYPE 'X' GWB

## FINISH SCHEDULE LEGEND:

ACT ACOUSTICAL CEILING TILE CPT CARPET TILE
CMU CONCRETE MASONRY UNIT EXP EXPOSED STRUCTURE

GWB GYPSUM WALL BOARD
HPC HIGH PERFORMANCE COATING
IR IMPACT RESISTANT

POLISHED CONCRETE PORCELAIN TILE PC PTD PAINTED

RB RT RUBBER BASE RUBBER TREADS SC SEALED CONCRETE

# ROOM FINISH CODE

1. ALL FLOOR FINISHES TO EXTEND UNDER MOVEABLE

WINDOWS AND/OR STOREFRONT GLAZING SYSTEM SECTIONS

COLORS TO BE P-1 U.N.O. REFER TO FINISH PLANS FOR EXTENT OF ACCENT WALL COLORS

7. ALL ROOMS MARKED "IR" ARE TO RECEIVE 5/8" IMPACT

RAF RESILIENT ATHLETIC FLOOR RUBBER FLOORING

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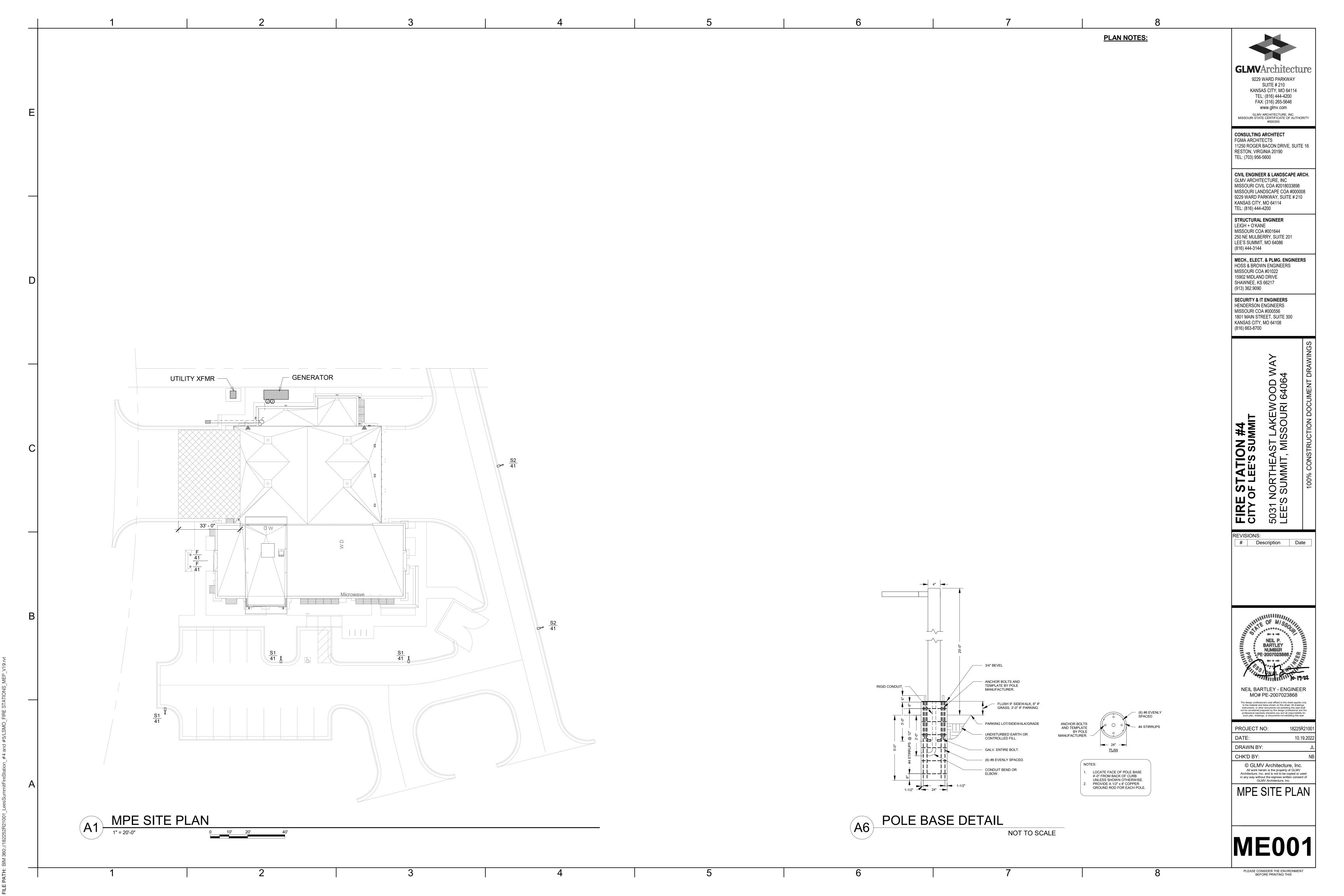
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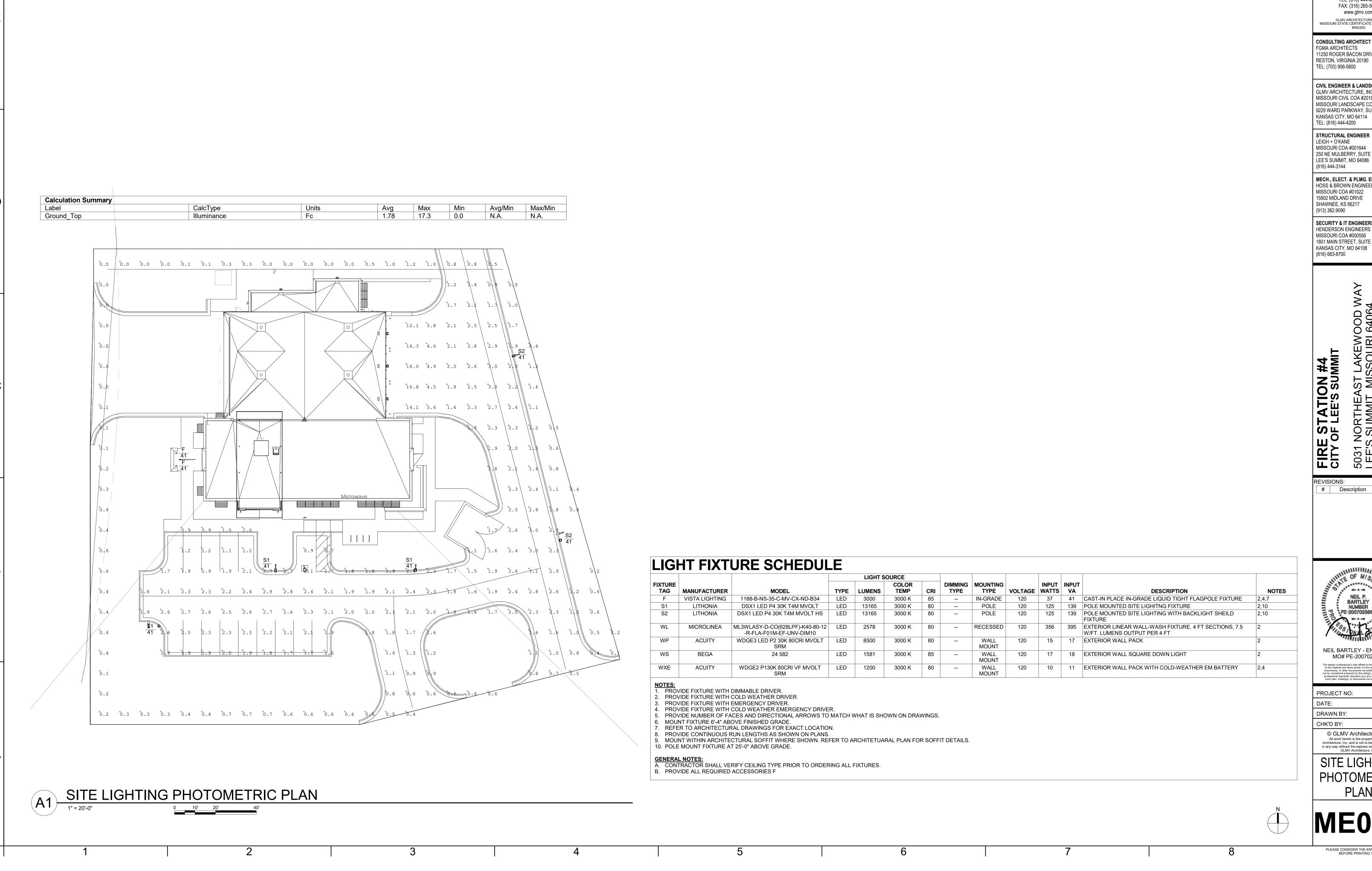
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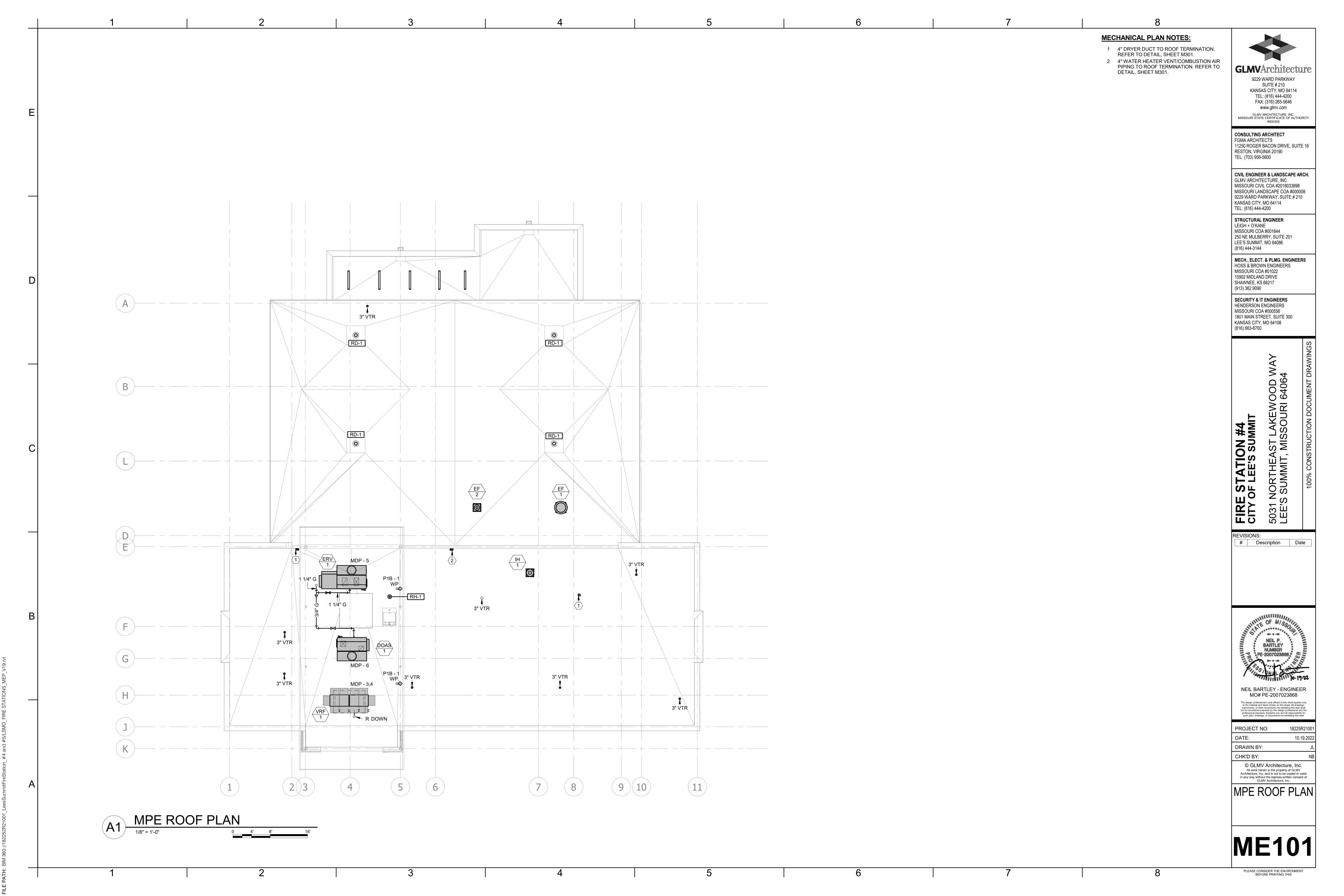


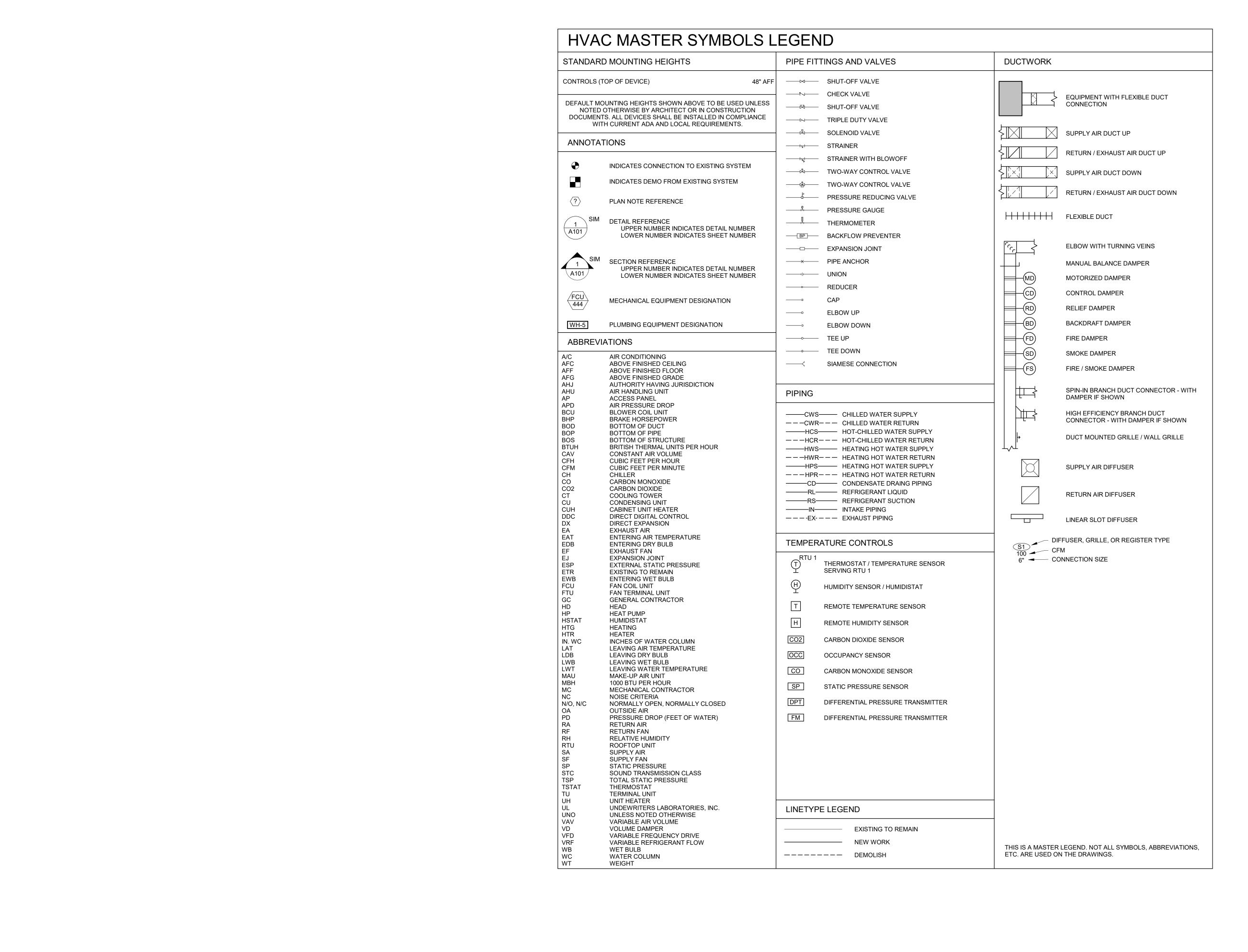
**NEIL BARTLEY - ENGINEER** MO# PE-2007023868

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DRAWN BY:	JL	
CHK'D BY:	NB	
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SITE LIGHTING **PHOTOMETRIC** PLAN





2

- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF
- C. DUCTWORK SHALL NOT BE LOCATED OVER THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- D. PROVIDE ALL MISCELLANEOUS SUPPORTING ALL MECHANICAL SYSTEMS.
- PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES. F. REFER TO ARCHITECTURAL REFLECTED CEILING

PLANS AND WALL ELEVATIONS FOR EXACT

- **DIFFUSERS** G. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED
- OTHERWISE. H. ALL RUNOUTS TO SUPPLY DIFFUSERS SHALL BE PROVIDED WITH BALANCING DAMPERS. PROVIDE CONCEALED DAMPER OPERATORS
- I. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION. J. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS,
- CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.
- EQUIPMENT WITH THE WORK OF ALL OTHER TRADES.
- BELOW EQUIPMENT.
- PIPING TO VRF UNIT COILS SO THAT IT DOES NOT INTERFERE WITH ACCESS TO THE UNIT OR CONTROLS.
- FOR SUPPORTS, ANCHORS, AND GUIDES. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- AROUND ALL ELECTRICAL EQUIPMENT AND
- P. ALL REFRIGERANT PIPING BETWEEN SPLIT SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING SHALL BE ROUTED AT RIGHT ANGLES WITH RESPECT TO THE STRUCTURE, AND PAINTED TO MATCH WALL/ CEILING FINISHES WHERE EXPOSED. COORDINATE WITH GENERAL CONTRACTOR ANY LOCATIONS WHERE PIPING SHALL BE CONCEALED BEHIND FALSE CAVITIES OR FUR-OUTS.
- WIRING REQUIRED FOR THE INSTALLATION OF THE LOW VOLTAGE PORTION OF THE TEMPERATURE CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT AND BOXES REQUIRED FOR THE TEMPERATURE CONTROL SYSTEM UNDER THE SUPERVISION OF THE TEMPERATURE CONTROL CONTRACTOR.

### **HVAC GENERAL NOTES**

- ANY SYSTEM COMPONENTS. ELECTRICAL EQUIPMENT OR PANELS. PROVIDE
- STEEL, ETC. FOR THE PROPER INSTALLATION OF
- E. COORDINATE FLOOR, WALL, ROOF
- LOCATION OF GRILLES, REGISTERS, AND
- WHERE LOCATED ABOVE HARD CEILINGS.
- ETC. REFER TO ARCHITECTURAL DRAWINGS FOR K. COORDINATE THE INSTALLATION OF PIPING AND
- L. THE CONTRACTOR SHALL NOT LOCATE PIPING
- M. THE CONTRACTOR SHALL ARRANGE BRANCH
- N. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED
- O. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE
- Q. ALL TEMPERATURE CONTROLS DEVICES AND



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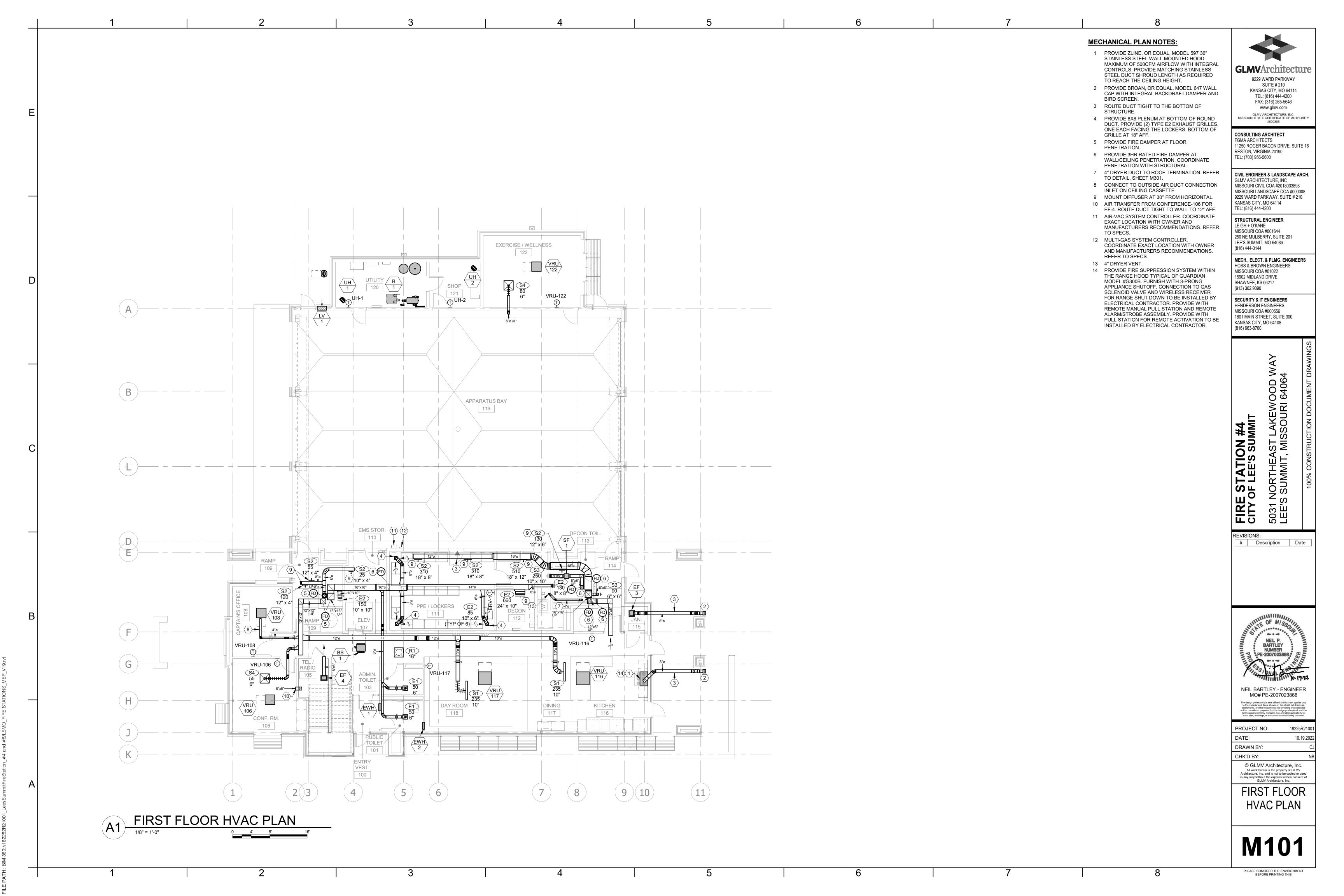
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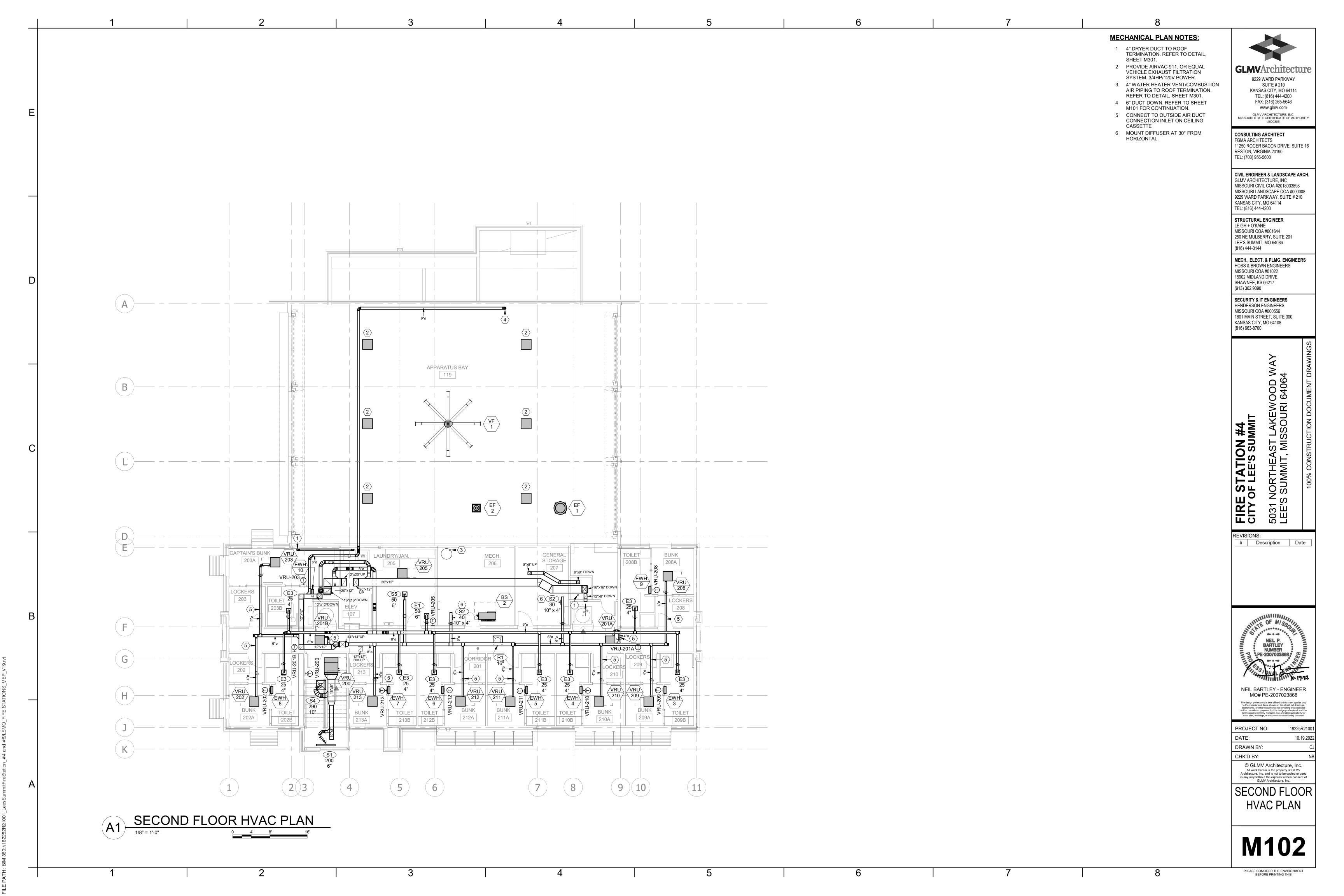
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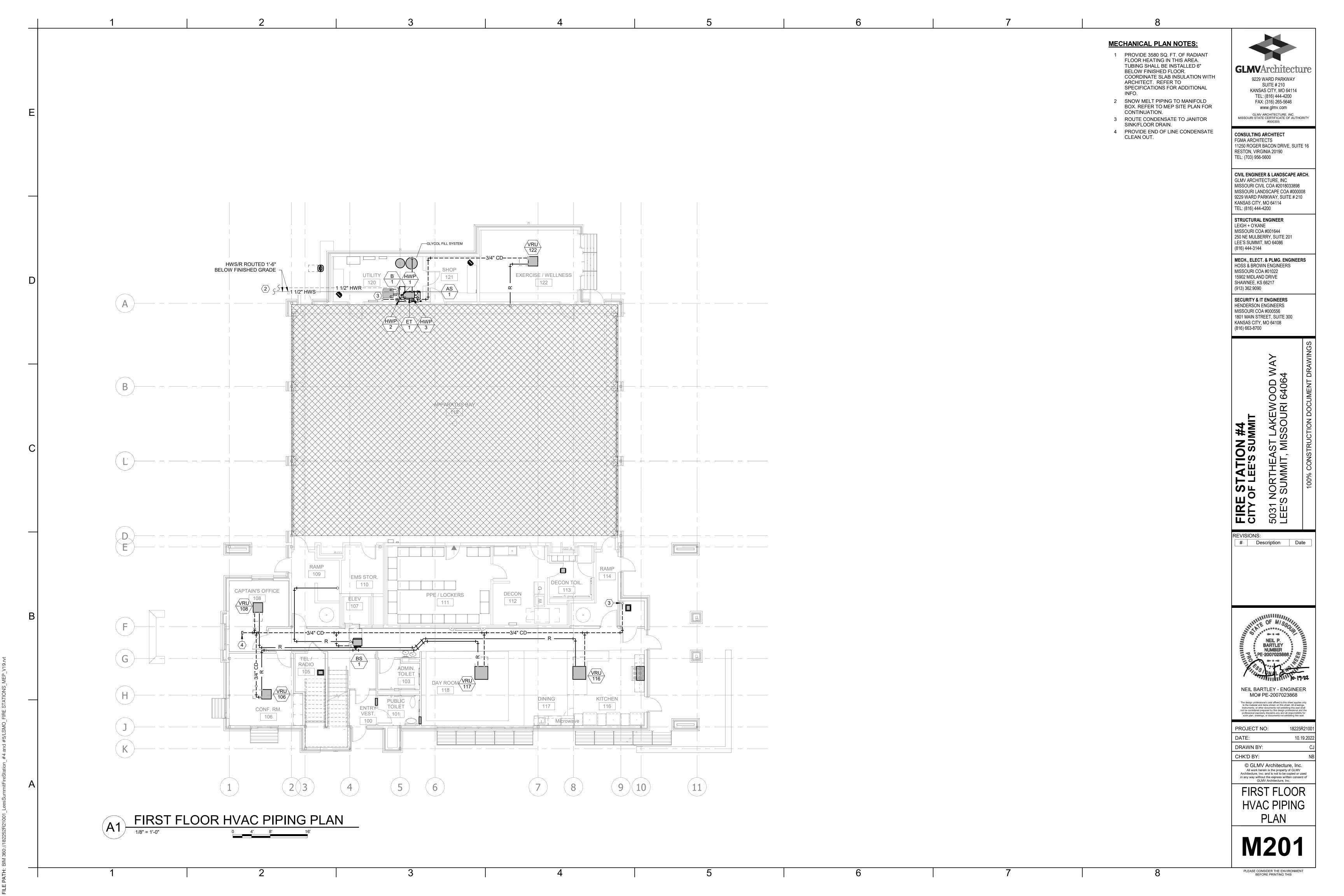
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DATE:	10.19.2022
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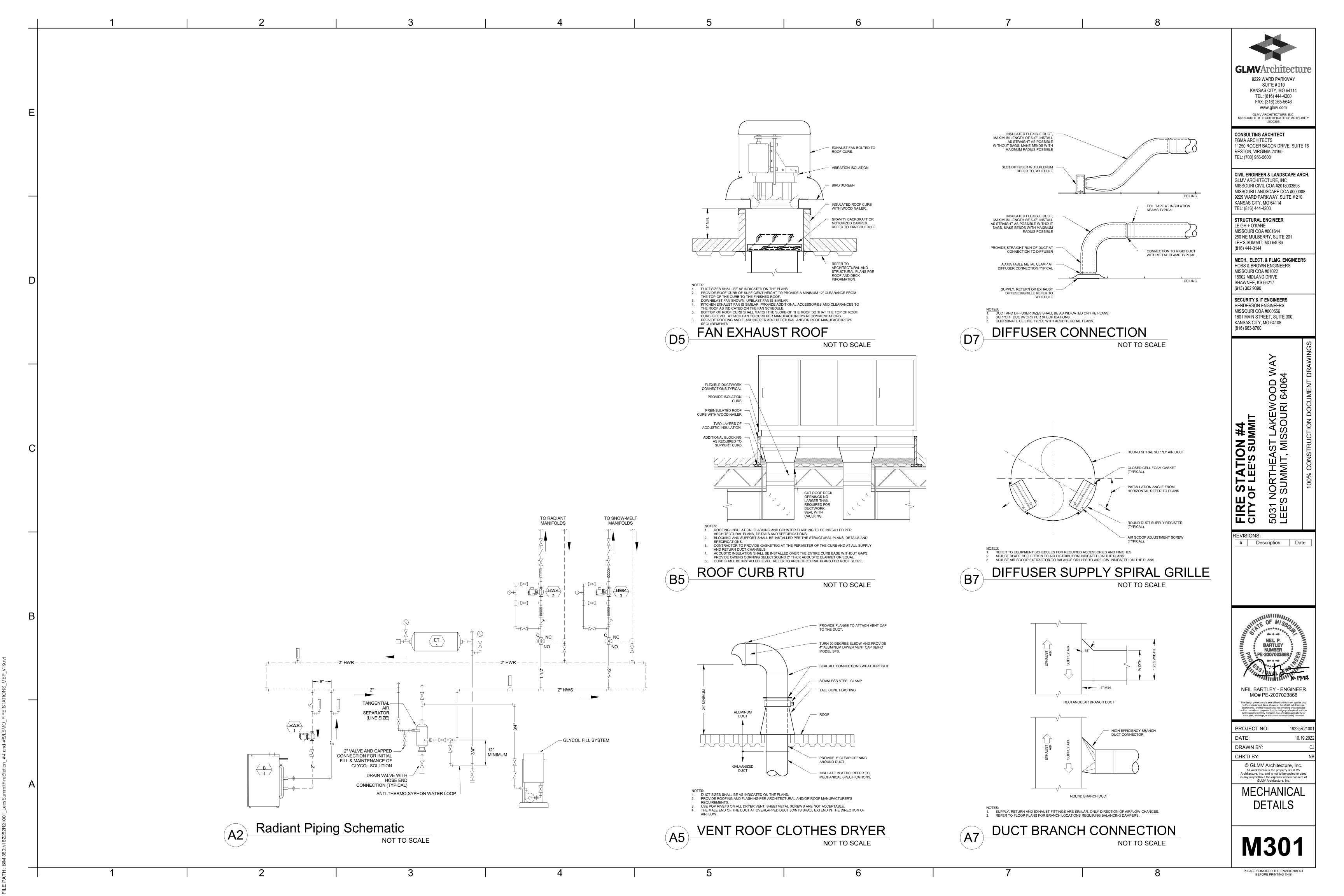
**LEGEND** 











<b>GRILL</b>	.E, REGIST	ER, AND	DIFFU	ISER S	SCH	<b>EDULE</b>	ı
						MAY DDECOUDE	

EQUIPMENT MARK	MANUFACTURER	MODEL	FACE SIZE	SERVICE	MAX NC	MAX PRESSURE DROP (IN WG)	DAMPER	NOTES
E1	TITUS	355FL	12x12	EXHAUST	30	0.10	NO	
E2	TITUS	355RL	SEE PLAN	EXHAUST	30	0.10	YES	
E3	TITUS	355FL	12x12	EXHAUST	30	0.10	YES	
R1	TITUS	OMNI	24x24	RETURN	30	0.10	NO	
S1	TITUS	ML-39	48"x4"	SUPPLY	30	0.10	NO	1,2
S2	TITUS	S300FL	SEE PLAN	SUPPLY	30	0.10	YES	
S3	TITUS	300RL	SEE PLAN	SUPPLY	30	0.10	NO	
S4	TITUS	OMNI	24x24	SUPPLY	30	0.10	NO	
S5	TITUS	OMNI	12x12	SUPPLY	30	0.10	NO	

**PUMP SCHEDULE** 

**GENERAL NOTES (APPLY TO ALL ABOVE):** A. FLUID IS 30% PROPYLENE GLYCOL.

B. ALL PUMPS SHALL BE NON-OVERLOADING.

HWP 1

HWP 2

HWP 3

VOLUME OPERATION.

**HOOD & LOUVER SCHEDULE** 

MODEL

GRSI-8

ELC-6375DAX

MANUFACTURER

**GREENHECK** 

GENERAL NOTES (APPLY TO ALL ABOVE):

A. PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION.

MARK

LV 1

MANUFACTURER

TACO

TACO

TACO

SERVICE

INTAKE

INTAKE

NOTES:

1. PROVIDE COMBINATION LOUVER/DAMPER. DAMPER SHALL BE CONTROLLED WITH EF-1 FAN OPERATION.

C. PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.

B. COLOR TO BE SELECTED BY CONTRACTOR FROM MANUFACTURER'S STANDARD COLORS.

VR15L

0034e

0034e

10 1/2"

NOTES:
1. PUMP SHALL HAVE INTEGRAL VFD/ECM MOTOR AND SMART CONTROL. PUMPS SHALL BE SET FOR CONSTANT

10 1/2"

- I. PROVIDE 2 1" SLOTS AND MANUFACTURER'S 48" INSULATED PLENUM WITH 10" INLET. CONTRACTOR SHALL CONSTURCT A PLENUM EXTENSION AS REQUIRED FOR THE PLENUM TO CLEAR THE CEILING STRUCTURE. EACH DIFFUSER GROUPING SHALL CONSIST OF (2) 48"
- ACTIVE FACE GRILLES, AND (1) 48" BLANK SECTION. PERFORMANCE DATA ON PLAN IS LISTED PER 48" SECTION. PROVIDE DIFFUSER WITH BOARDER TYPE 15, FLUSH CONCEALED BOARDER. COLOR SHALL BE SELECTED BY ARCHITECT

### <u>GENERAL NOTES (APPLY TO ALL ABOVE):</u>

- $\mathsf{A}.\;\;\mathsf{PROVIDE}\;\mathsf{MOUNTING}\;\mathsf{FRAME}\;\mathsf{TO}\;\mathsf{MATCH}\;\mathsf{CEILING}\;\mathsf{TYPE}.\;\;\mathsf{VERIFY}\;\mathsf{WITH}\;\mathsf{ARCHITECT'S}\;\mathsf{PLANS}\;\mathsf{PRIOR}\;\mathsf{TO}\;\mathsf{ORDERING}.$
- B. REFER TO DIFFUSER TAGS ON PLANS FOR NECK SIZE AND AIRFLOW.
- C. UNLESS NOTED OTHERWISE, COLOR SHALL BE STANDARD WHITE. D. FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS NOTED OTHERWISE.
- E. MAXIMUM NC OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS. F. MAXIMUM PRESSURE DROP OF 0.1 IN-WG FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.

# **FAN SCHEDULE**

EQUIPMENT MARK	MANUFACTURER	MODEL	CFM	STATIC PRESSURE (IN WG)	DRIVE	ВНР	HP	VOLTS	PHASE	NOTES
EF 1	LOREN COOK	ACED	2700	0.20	DIRECT	0.47	0.75	120	1	2,3,4,5
EF 2	LOREN COOK	ACED	200	0.20	DIRECT	0.00	0.05	120	1	2,3,4,5
EF 3	LOREN COOK	GC-422	50	0.10	DIRECT	0.03	0.03	120	1	2,3,6
EF 4	LOREN COOK	GC-422	275	0.20	DIRECT	0.00	0.00	120	1	2,3,6
SF 1	LOREN COOK	SQN-D	250	0.00	DIRECT	0.00	0.00	120	1	2,3
VF 1	SKY BLADE	FNTM-1443	0	0.00	DIRECT	1.50	1.35	208	3	1,2

GPM HEAD BHP HP VOLTS PHASE

14 15 0.00 0.00 120 1 1

23 19 0.00 0.00 120 1 1

AIRFLOW MIN. FREE MAX. PD

AREA (S.F.)

0.35

INCHES WC

0.08

0.15

NOTES

CFM

250

- PROVIDE 14FT. DIA. 6-BLADE HVLS FAN AND MANUFACTUERERS SINGLE YOKE CONTROLLER.
- 2. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. 3. PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT AND SPEED CONTROLLER.
- 4. PROVIDE TALL ROOF CURB, HEIGHT AS REQUIRED TO PROVIDE 18" CLEARANCE ABOVE FINISHED FLOOR.
- PROVIDE WITH BACKDRAFT DAMPER, AND INTEGRAL BIRD SCREEN. PROVIDE WITH MANUFACTURER'S ALUMINUM GRILLE.

### VRU 213 TRANE TPEFYP005FM140A 24x24 Cassette

MODEL

TPLFYP015FM140A

TPLFYP008FM140A

TPLFYP024EM140A

TPLFYP024EM140A

TPLFYP018FM140A

TPEFYP015MA144A

TPEFYP005FM140A

TPLFYP008FM140A

TPLFYP008FM140A

TPLFYP012FM140A

TPLFYP012FM140A

TPEFYP005FM140A

NOTES:

1. PROVIDE UNIT WITH FBM2-2-A FILTER BOX. 2. CONNECT DOAS SUPPLY AIR TO EQUIPMENT OUTSIDE AIR DUCT CONNECTION. PROVIDE REDUCER AT CONNECTION AS REQUIRED.

EQUIPMEN'

MARK

VRU 106

VRU 108

VRU 116

VRU 117

VRU 122

VRU 200

VRU 201A

VRU 201B

VRU 202

VRU 203

VRU 205

VRU 208

VRU 209

VRU 210 VRU 211

VRU 212

MANUFACTURER

**TRANE** 

**TRANE** 

**TRANE** 

**TRANE** 

**TRANE** 

**TRANE** 

**TRANE** 

TRANE

**TRANE** 

TRANE

A. INDOOR UNIT CAPACITIES BASED ON INDOOR SPACE CONDITIONS: SUMMER = 75F/55%RH, WINTER = 70F

24x24 Cassette

36x36 Cassette

CONCEALED

24x24 Cassette

24x24 Cassette

# B. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS.

C. PROVIDE MANUFACTURER'S BASIC THERMOSTATS AND CENTRAL CONTROLLER. PROVIDE WITH WEB-INTERFACE CAPABILITY. D. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.

TPEFYP005FM140A 24x24 Cassette

E. PROVIDE 3/4" CONDENSATE LINE UNLESS OTHERWISE NOTED.

# VRF OUTDOOR UNIT SCHEDULE

							E					
	CORRECTED CORRECTED FIELD				UNIT #1		UNIT #2					
<b>EQUIPMENT</b>			COOLING	HEATING	REFRIGERANT				MOCP		MOCP	
MARK	MANUFACTURER	MODEL	BTUH	BTUH	CHARGE (lbs)	VOLTS	PHASE	MCA	(A)	MCA	(A)	NOTES
VRF 1	TRANE	TURYH1443BN40AN	143867.0	135184.0	33.1	208	3	38.0 A	60 A	38.0 A	60 A	1

TOTAL

24000 0

24000.0

4916.0

4916.0

4916.0

280

280

SENSIBLE HEATING

6114.0

3804.0

6114.0 208

208

208

3819.0 | 3804.0 | 208 | 1 | 0.2 | 15 | 2

3804.0 | 208 | 1 | 0.2 | 15 |2

BTUH VOLTS PHASE MCA (A) NOTES

BTUH

3819.0

NOTES:

1. PROVIDE FACTORY INSTALLED PHASE MONITOR.

- A. OUTDOOR UNIT CAPACITIES BASED ON AMBIENT TEMPERATURES: SUMMER = 105F, WINTER -10F
- B. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. PROVIDE MANUFACTURER'S BASIC THERMOSTATS AND CENTRAL CONTROLLER.
- PROVIDE OUTDOOR UNIT WITH MANUFACTURER'S LOW AMBIENT KIT. MOUNT UNITS ON STRUCTURAL STEEL BASE AT LEAST 24" ABOVE ROOF - QUICKSLING VRF SUPERSTAND OR EQUIVALENT

# PROVIDE TOP HOOD ACCESSORY, AND HAIL GUARDS.

# **ELECTRIC UNIT HEATER SCHEDULE**

		EQUIPMENT MARK	MANUFACTURER	MODEL	SUPPLY CFM	ELEMENT KW	VOLTS	PHASE	FLA	MOCP (A)	NOTES
		EWH 1	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 2	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 3	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 4	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 5	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 6	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 7	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 8	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
		EWH 9	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
_	'	EWH 10	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2

QMARK

QMARK

NOTES:

1. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR A SINGLE-POINT ELECTRICAL CONNECTION.

350

3.0 208 1 14.5 20 1,3,4

MUH0381-PRO 350 3.0 208 1 14.5 20 1,3,4

- PROVIDE A UNIT-MOUNTED, FACTORY WIRED THERMOSTAT
- PROVIDE MANUFACTURER'S STANDARD 24V WALL-MOUNTED THERMOSTAT 4. PROVIDE WITH MANUFACTURER'S STANDARD LOUVER AND CEILING MOUNTING BRACKET.

MUH0381-PRO

UH 1

UH 2

A. ELECTRIC HEAT KW SHOWN IS ACTUAL OUTPUT AT THE VOLTAGE SHOWN. B. CABINET COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR.

# **BOILER SCHEDULE**

	L														
					GAS LOAD (BTU/H)		GAS LOAD (BTU/H)			WATER TEMP	ERATURE (°F)	Е	LECTRIC	AL DAT	4
		<b>EQUIPMENT</b>					<b>FLOW</b>						MOCP		
		MARK	MANUFACTURER	MODEL	INPUT	OUTPUT	(GPM)	ENTERING	LEAVING	VOLTS	PHASE	MCA	(A)		
7		B 1	AERCO	AM 399-500	500.0	495.0	33.0	80	110	120	1	2.25	15		

- PROVIDE WITH CONDENSATE NEUTRALIZATION KIT. B. PROVIDE LOW WATER CUTOFF WITH MANUAL RESET.
- C. PROVIDE ASME RELIEF VALVE. D. FUEL SOURCE IS NATURAL GAS
- E. OUTPUT SHALL BE BASED ON 40% PROPYLENE GLYCOL.

# VRF BRANCH SELECTOR BOX SCHEDULE

				ELECT	RICAL DA	TA
EQUIPMENT MARK	MANUFACTURER	MODEL	VOLTS	PHASE	MCA	MOCP (A)
BS 1	TRANE	TCMBM1012JA1	208	1	0.7	15
BS 2	TRANE	TCMBM1012JA11N4	208	1	1.6	15

- . MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME
- REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. B. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.

					ELECTRICAL DATA						
EQUIPMENT MARK	MANUFACTURER	MODEL	VOLTS	PHASE	MCA	MOCP (A)					
BS 1	TRANE	TCMBM1012JA1	208	1	0.7	15					
BS 2	TRANE	TCMBM1012JA11N4	208	1	1.6	15					

C. PROVIDE 3/4" CONDENSATE LINE UNLESS OTHERWISE NOTED.

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PROJECT NO:

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**SCHEDULES** 



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CONSULTING ARCHITECT FGMA ARCHITECTS 11250 ROGER BACON DRIVE, SUITE 16 RESTON, VIRGINIA 20190 TEL: (703) 956-5600

**CIVIL ENGINEER & LANDSCAPE ARCH.** GLMV ARCHITECTURE, INC MISSOURI CIVIL COA #2018033898 MISSOURI LANDSCAPE COA #000008 9229 WARD PARKWAY, SUITE # 210 KANSAS CITY, MO 64114

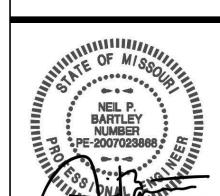
TEL: (816) 444-4200 STRUCTURAL ENGINEER LEIGH + O'KANE MISSOURI COA #001644 250 NE MULBERRY, SUITE 201 LEE'S SUMMIT. MO 64086 (816) 444-3144

MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE SHAWNEE, KS 66217 (913) 362.9090

**SECURITY & IT ENGINEERS** HENDERSON ENGINEERS MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108 (816) 663-8700

FIRE STAT ЭШ 50; LE

REVISIONS: # Description



**NEIL BARTLEY - ENGINEER** MO# PE-2007023868

18225R21001

HVAC PI	PE INSULA	TION					
	DESCRIPTION						
TYPE 1	FIBER GLASS RIGID VAPOR TRANSMISSI			,	,	,	CE TEMP = 85
TYPE 2	ARMACELL AP/ARMA	FLEX SS FOAM I	NSULATION, 3.0-6.0	PCF, K-VALUE = 0.2	5, MAX SERVICE TE	MP. = 180F	
	PVC JACKETS, HIGH			<u> </u>			END JOINT
	COMPLIES WITH AST						
	ALUMINUM JACKETS COMPLIES WITH AST	M B 209	,				
	SULATED PIPE SUPI > 1 1/2" PIPES MINIM	•		•			•
INSULATED PIPE	SUPPORTS						
	PIPE SIZE		INSERT LENGTH	SHIELD LENGTH	SHIELD GAUGE	INSULATION	
	1 1/2" TO 5"		6"	4"	20	TYPE 5	4
	6" TO 8" 10" TO 12"		9"	6" 6"	16 14	TYPE 5 TYPE 5	4
	14" AND LARGER		12"	10"	12	TYPE 5	4
<b>INSULATION THIC</b>	CKNESS FOR PIPES LO	CATED WITHIN	THE BUILDING THEF	RMAL ENVELOPE			
PIPING	CONTINUOUS		PIPE	SIZE			
SYSTEM	VAPOR BARRIER	< 1 1/2"	1 1/2" - 4"	5" - 6"	>= 8"	INSULATION	
HWS & HWR	NO	1 1/2"	2"	2"	2"	TYPE 1	1
COOL COIL	YES	1/2"	1/2"	1/2"	1/2"	TYPE 2	2
REFRIG SUCTION		3/4"	3/4"	3/4"	3/4"	TYPE 2	2
	CKNESS FOR PIPES LO	CATED OUTSID					
PIPING	CONTINUOUS			SIZE			
SYSTEM	VAPOR BARRIER	<= 1 1/2"	2" - 4"	5" - 6"	>= 8"	INSULATION	
HWS & HWR COOL COIL	NO YES	1 1/2" 1/2"	2" 1/2"	2" 1/2"	2" 1/2"	TYPE 1,4 TYPE 2	1
REFRIG SUCTION		3/4"	3/4"	3/4"	3/4"	TYPE 2,4	2
2. 3. 4.  GENERAL NOTES: A.  B.  C.	INSULATED FITTING ALL FITTINGS, VALVE FACTORY-FABRICAT SEAL LONGITUDINAL PIPE INSERT THICKE  6: (APPLY ALL TO ABC THE BASIS FOR FIBE LEVEL OF CONSTRU THE BASIS FOR FLEX PRODUCTS MANUFA INSTALL ALL PIPE IN INSTALL INSULATION	ES, TEES, FLANG ED INSULATION SEAMS, ENG JO IESS SHALL BE E IVE) R GLASS PIPE IN CTION. PRODUC KIBLE ELASTOME CTURED BY AEF SULATION PER IN	ES, CONNECTIONS, FITTINGS. PROVIDE DINTS AND PROTRUSEQUAL TO THE ADJOING AND FITTE MANUFACTURED ERIC INSULATION IS ROFLEX SHALL BE PRANUFACTURER'S F	ETC. SHALL BE INSTANDED ARMAFIX PRE-INSUSIONS WITH VAPOR DINING INSULATION TING COVERS IS JOURN BY OWENS-CORNI ARMACELL WHICH ERMITTED TO BID. OUBLISHED INSTALL	SULATED AND COVE JLATED PIPE HANGE L-BARRIER MASTIC A THICKNESS  HNS-MANVILLE WHI NG AND KNAUF SHA SHALL REPRESENT	RED WITH THE APPER FITTINGS AT ALL AND JOINT SEALANT ICH SHALL REPRESITALL BE PERMITTED	HANGER  ENT THE  FO BID.

# DUCT INSULATION SCHEDULE

	100LATION OCTILDOLL
INSULATION	DESCRIPTION
TYPE 1	WRAP INSULATION - CERTAINTEED SOFTTOUCH, TYPE 150, FSK FACED, 1 1/2" THICK, 1.5 PCF, K-VALUE = 0.24, R-VALUE = 6.2, VAPOR TRANSMISSION = 0.02 PERMS MAX. COMPLIES WITH ASTM C553 TYPE II, ASTM C1290 AND ASTM C1338 FUNGI RESISTANCE
TYPE 2	WRAP INSULATION - CERTAINTEED SOFTTOUCH, TYPE 75, FSK FACED, 3" THICK, 0.75 PCF, K-VALUE = 0.31, R-VALUE = 9.6, VAPOR TRANSMISSION = 0.02 PERMS MAX. COMPLIES WITH ASTM C553 TYPE II, ASTM C1290 AND ASTM C1338 FUNGI RESISTANCE
TYPE 3	ROUND DUCT LINER - CERTAINTEED ULTRAROUND DUCT LINER, 1" THICK, K-VALUE = 0.23, R-VALUE = 4.3, NRC = 0.75. COMPLIES WITH ASTM C1071 TYPE I, ASTM G22 BACTERIA RESISTANCE AND ASTM C1338 FUNGI RESISTANCE.
TYPE 4	DUCT LINER - CERTAINTEED TOUGHGARD R DUCT LINER, TYPE 200, 1/2" THICK, 2.0 PCF, K-VALUE = 0.24, R-VALUE = 2.1, NRC = 0.45. COMPLIES WITH ASTM C1071 TYPE I, ASTM G22 BACTERIA RESISTANCE AND ASTM C1338 FUNGI RESISTANCE.

DUCT WITHIN THE BUILDING THERMAL ENVELOPE									
DUCT TYPE - CONCEALED	INSULATION	NOTES	DUCT TYPE - EXPOSED	INSULATION	NOTES				
ROUND LOW PRESSURE SUPPLY AIR	TYPE 1	-	ROUND LOW PRESSURE SUPPLY AIR	TYPE 3	-				
ROUND LOW PRESSURE RETURN AIR	NONE	-	ROUND LOW PRESSURE RETURN AIR	NONE	-				
ROUND OUTDOOR AIR	TYPE 2	-	ROUND OUTDOOR AIR	TYPE 2	-				
ROUND VENTILATION AIR	NONE	-	ROUND VENTILATION AIR	NONE	-				
ROUND MIXED AIR	TYPE 1	-	ROUND MIXED AIR	TYPE 1	-				
ROUND LOW PRESSURE EXHAUST AIR	NONE	-	ROUND LOW PRESSURE EXHAUST AIR	NONE	-				
ROUND LOW PRESSURE RELIEF AIR	TYPE 2	-	ROUND LOW PRESSURE RELIEF AIR	TYPE 2	-				
RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 1	-	RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 1	-				
RECTANGULAR LOW PRESSURE RETURN AIR	NONE	-	RECTANGULAR LOW PRESSURE RETURN AIR	NONE	-				
RECTANGULAR OUTDOOR AIR	TYPE 2	-	RECTANGULAR OUTDOOR AIR	TYPE 2	-				
RECTANGULAR VENTILATION AIR	NONE	-	RECTANGULAR VENTILATION AIR	NONE	-				
RECTANGULAR MIXED AIR	TYPE 1	-	RECTANGULAR MIXED AIR	TYPE 1	-				
RECTANGULAR LOW PRESSURE EXHAUST AIR	NONE	-	RECTANGULAR LOW PRESSURE EXHAUST AIR	NONE	-				
RECTANGULAR LOW PRESSURE RELIEF AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE RELIEF AIR	TYPE 2	-				

DUCT TYPE - CONCEALED	INSULATION	NOTES	DUCT TYPE - EXPOSED	INSULATION	NOTES
ROUND LOW PRESSURE SUPPLY AIR	TYPE 2	-	ROUND LOW PRESSURE SUPPLY AIR	TYPE 2	-
ROUND LOW PRESSURE RETURN AIR	TYPE 2	-	ROUND LOW PRESSURE RETURN AIR	TYPE 2	-
ROUND OUTDOOR AIR	TYPE 1	-	ROUND OUTDOOR AIR	TYPE 1	-
ROUND VENTILATION AIR	TYPE 2	-	ROUND VENTILATION AIR	NONE	-
ROUND MIXED AIR	TYPE 2	-	ROUND MIXED AIR	TYPE 2	-
ROUND LOW PRESSURE EXHAUST AIR	TYPE 1	-	ROUND LOW PRESSURE EXHAUST AIR	TYPE 1	-
ROUND LOW PRESSURE RELIEF AIR	NONE	-	ROUND LOW PRESSURE RELIEF AIR	NONE	-
RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE RETURN AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE RETURN AIR	TYPE 2	-
RECTANGULAR OUTDOOR AIR	TYPE 1	-	RECTANGULAR OUTDOOR AIR	TYPE 2	-
RECTANGULAR VENTILATION AIR	TYPE 2	-	RECTANGULAR VENTILATION AIR	NONE	-
RECTANGULAR MIXED AIR	TYPE 2	-	RECTANGULAR MIXED AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE EXHAUST AIR	TYPE 1	-	RECTANGULAR LOW PRESSURE EXHAUST AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE RELIEF AIR	NONE	-	RECTANGULAR LOW PRESSURE RELIEF AIR	NONE	-

DUCT TYPE	INSULATION	NOTES	DUCT TYPE	INSULATION	NOTES
RECTANGULAR SUPPLY AIR AT CENTRAL UNIT	TYPE 4	1	RECTANGULAR EXHAUST AIR	TYPE 4	4
RECTANGULAR SUPPLY AIR AT FAN TERMINAL UNIT	TYPE 4	2	RECTANGULAR RETURN AIR BOOTS	TYPE 4	-
RECTANGULAR RETURN AIR AT CENTRAL UNIT	TYPE 4	3	RECTANGULAR RETURN AIR TRANSFERS	TYPE 4	-

- 1. THE VERTICAL DUCTWORK FROM THE UNIT DISCHARGE TO HORIZONTAL AND THE FIRST 10 FEET OF HORIZONTAL DUCTWORK IN ALL DIRECTIONS (TYPICAL FOR CENTRAL AHU, RTU, MAU, DOAU, ETC.)
- 2. THE FIRST 10 FEET OF DUCTWORK FROM THE FAN TERMINAL OUTLET.
- 3. THE VERTICAL DUCTWORK FROM THE UNIT INLET TO HORIZONTAL AND THE FIRST 10 FEET OF HORIZONTAL DUCTWORK IN ALL DIRECTIONS (TYPICAL FOR CENTRAL AHU, RTU, MAU, DOAU, ETC.)
- 4. THE FIRST 10 FEET OF DUCTWORK FROM THE EXHAUST FAN INLET.

# GENERAL NOTES (APPLY ALL TO ABOVE):

- A. THE BASIS FOR THE DUCT INSULATION IN THIS SCHEDULE IS CERTAIN-TEED WHICH SHALL REPRESENT THE MINIMUM LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING, JOHNS-MANSVILLE, KNAUF, 3M, FIREMASTER AND AEROFLEX SHALL BE PERMITTED TO BID.
- B. REFER TO FLOOR PLANS AS ADDITIONAL INSULATION REQUIREMENTS MAY BE INDICATED THERE.
- C. THE REQUIREMENT FOR ACOUSTICAL INSULATION IS IN ADDITION TO THE THERMAL INSULATION REQUIREMENT. PROVIDE EXTERNAL THERMAL INSULATION AND INTERNAL ACOUSTICAL LINER AS INDICATED.
- D. INSTALL ALL DUCT INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

# **DEFINITIONS:**

SUPPLY AIR: CONDITIONED AIR FROM AN AIR HANDLING SYSTEM TO AN OCCUPIED SPACE RETURN AIR: AIR FROM AN OCCUPIED SPACE BACK TO AN AIR HANDLING SYSTEM VENITLATION AIR: CONDITIONED AIR FROM THE DISCHARGE OF THE DOAS TO THE OCCUPIED SPACE RELIEF AIR: AIR DOWNSTREAM OF THE DOAS/ERW ENERGY RECOVERY SYSTEM TO OUTSIDE THE BUILDING OUTSIDE AIR: UNCONDITIONED AIR FROM OUTSIDE THE BUILDING TO AN AIR HANDLING SYSTEM

EXHAUST AIR: AIR THAT IS REMOVED FROM A BUILDING SPACE AND CONVEYED TO OUTSIDE THE BUILDING

LOW PRESSURE: LESS THAN 2" STATIC PRESSURE

CONCEALED LOCATION: DUCT IS LOCATED ABOVE A CEILING, WITHIN CHASE OR SHAFT, ETC. EXPOSED LOCATION: DUCT IS NOT CONCEALED WITH THE BUILDING CONSTRUCTION (FINISHED SPACES, OR UNFINSHED SUCH AS MECHANICAL ROOMS)

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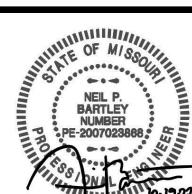
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FIRE STATION #4
CITY OF LEE'S SUMMIT

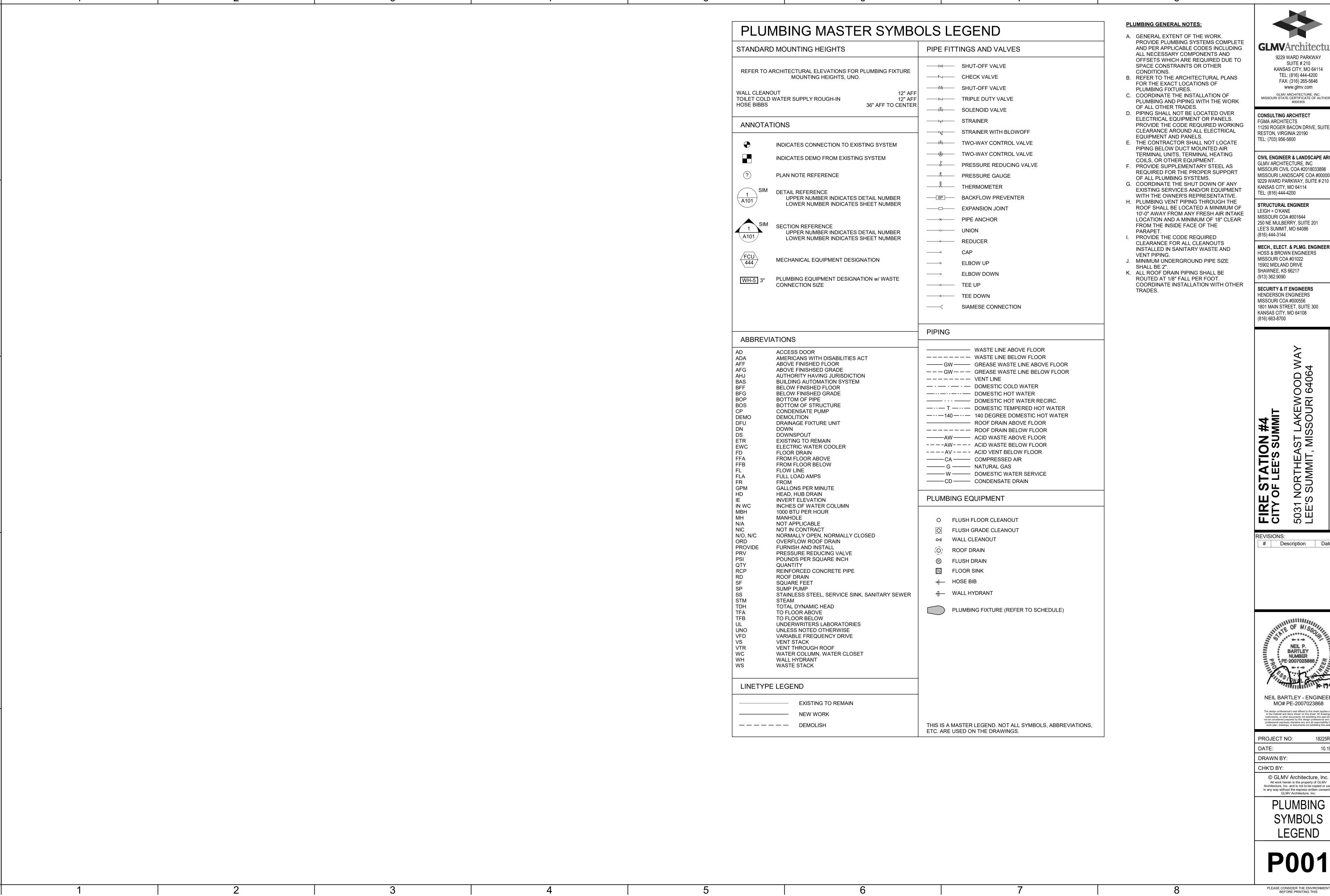
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NEIL BARTLEY - ENGINEER MO# PE-2007023868

PROJECT NO:	18225R21001
DATE:	10.19.2022
DRAWN BY:	CJ
CHK'D BY:	N. BARTLEY
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# Description Date

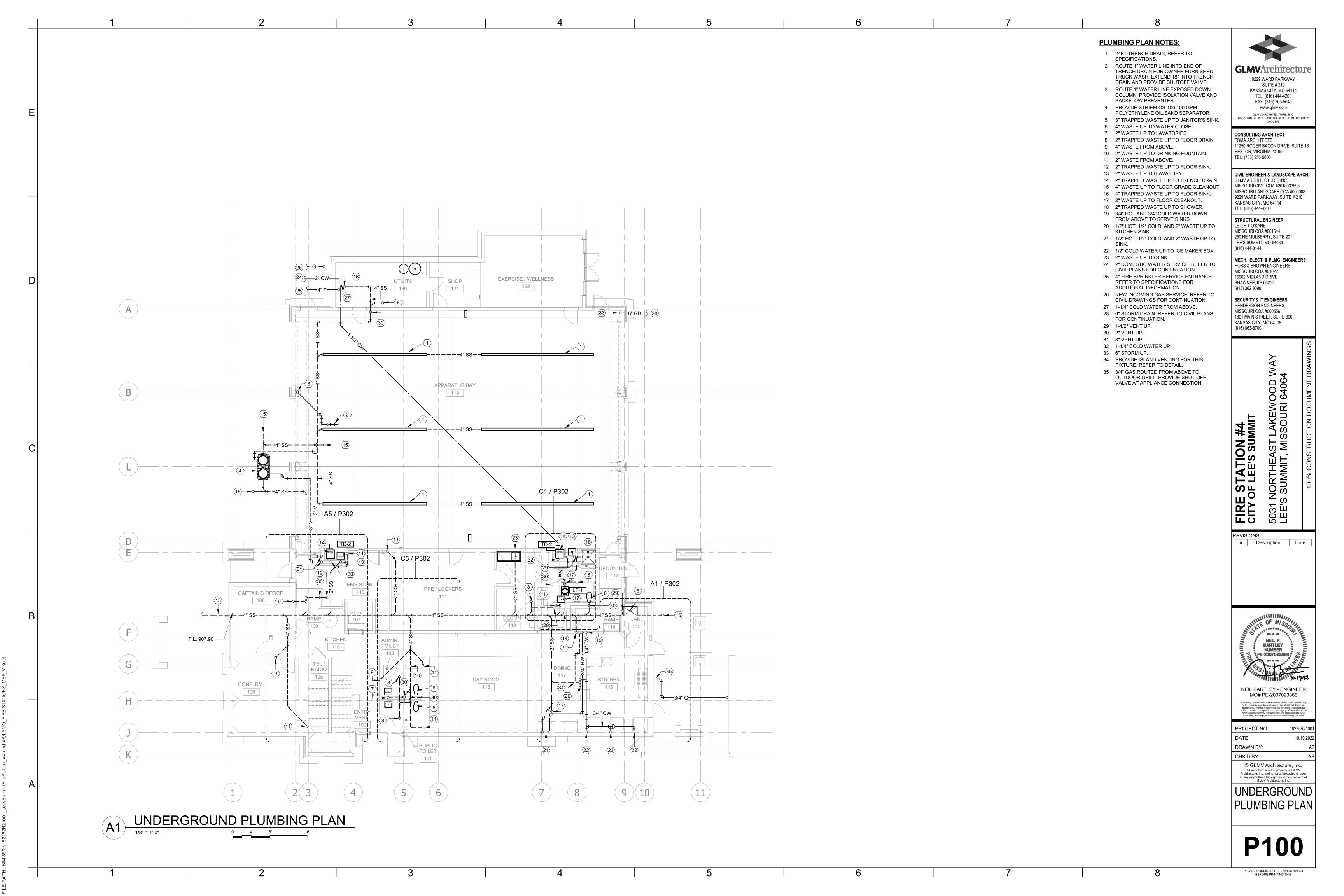


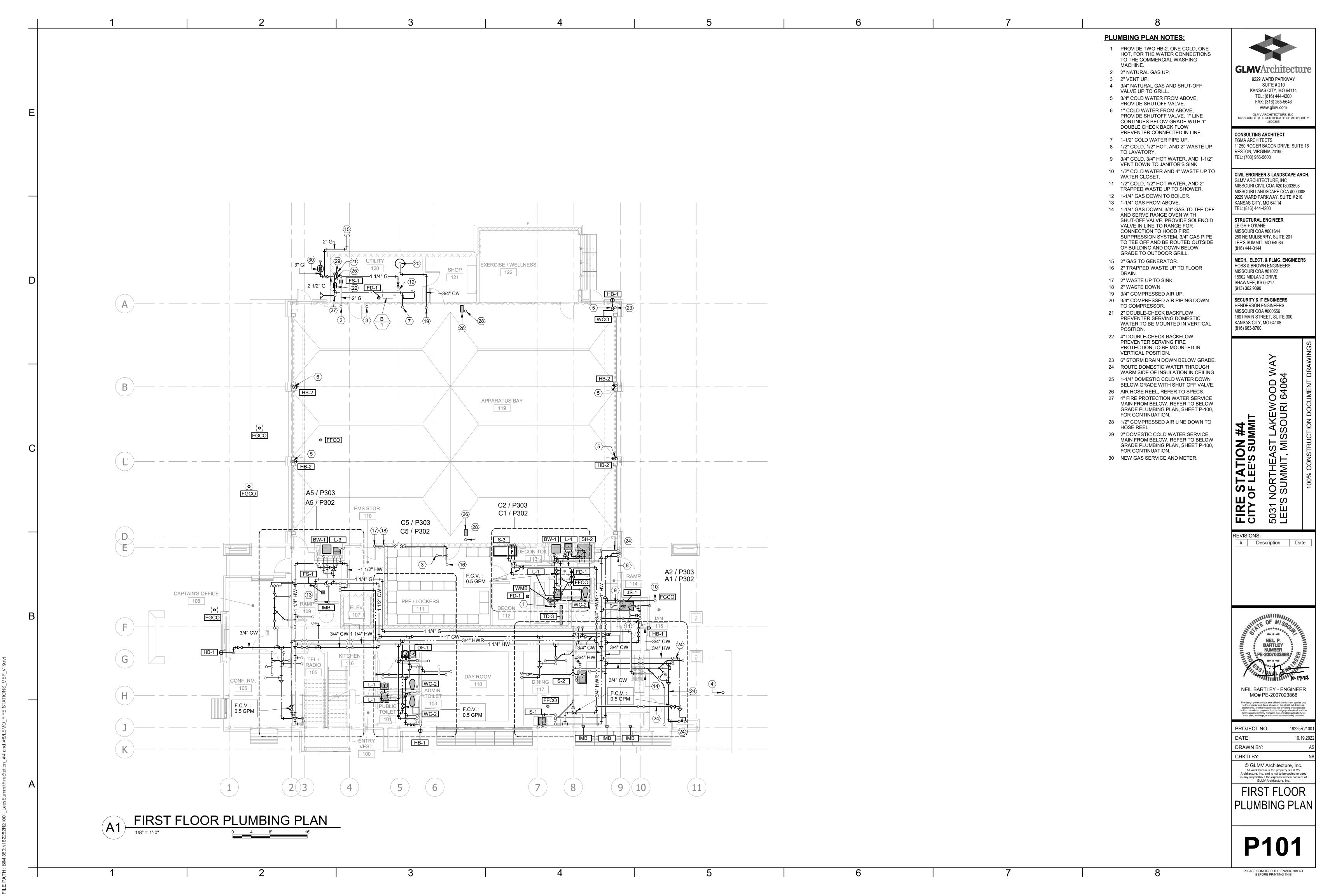
**NEIL BARTLEY - ENGINEER** MO# PE-2007023868

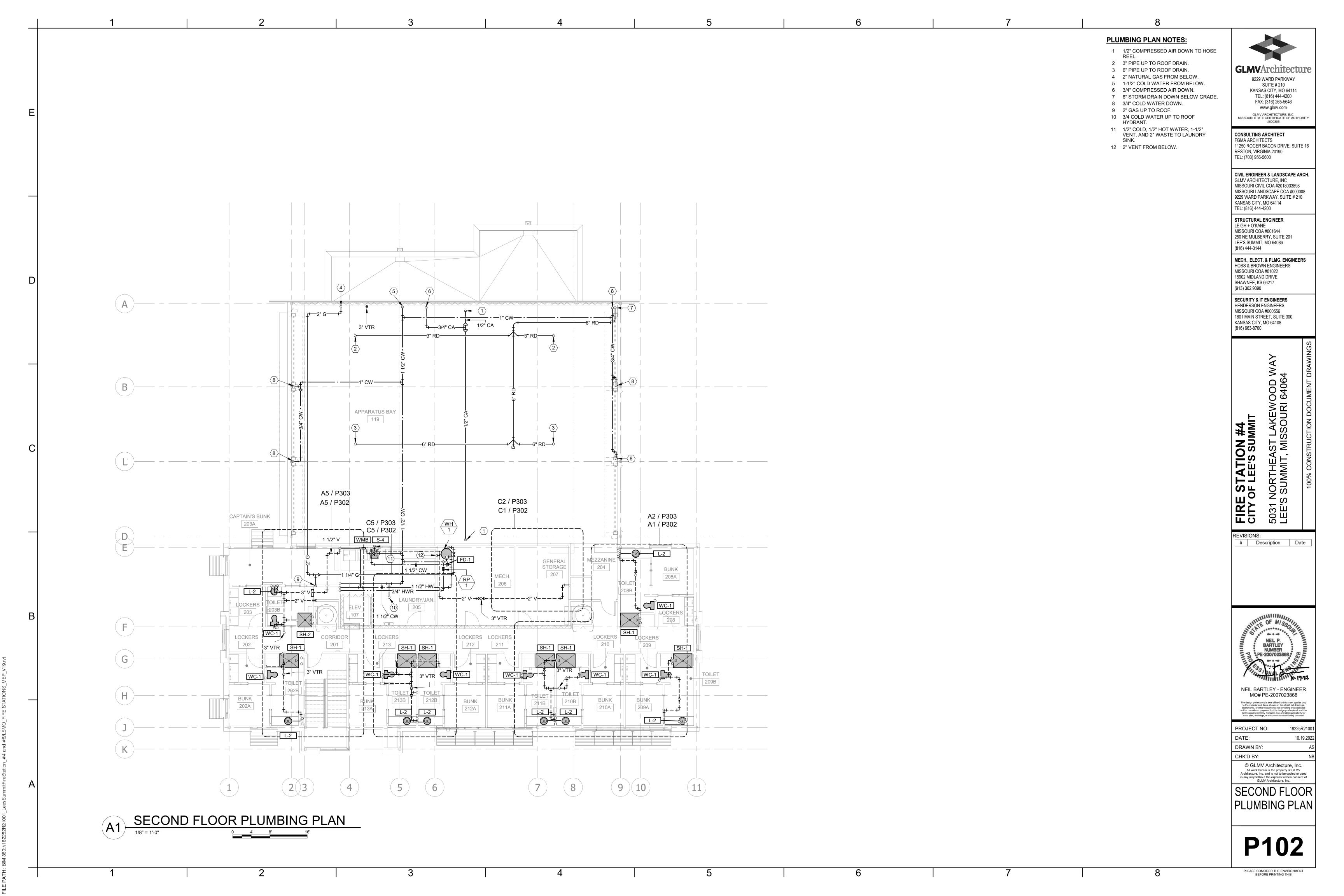
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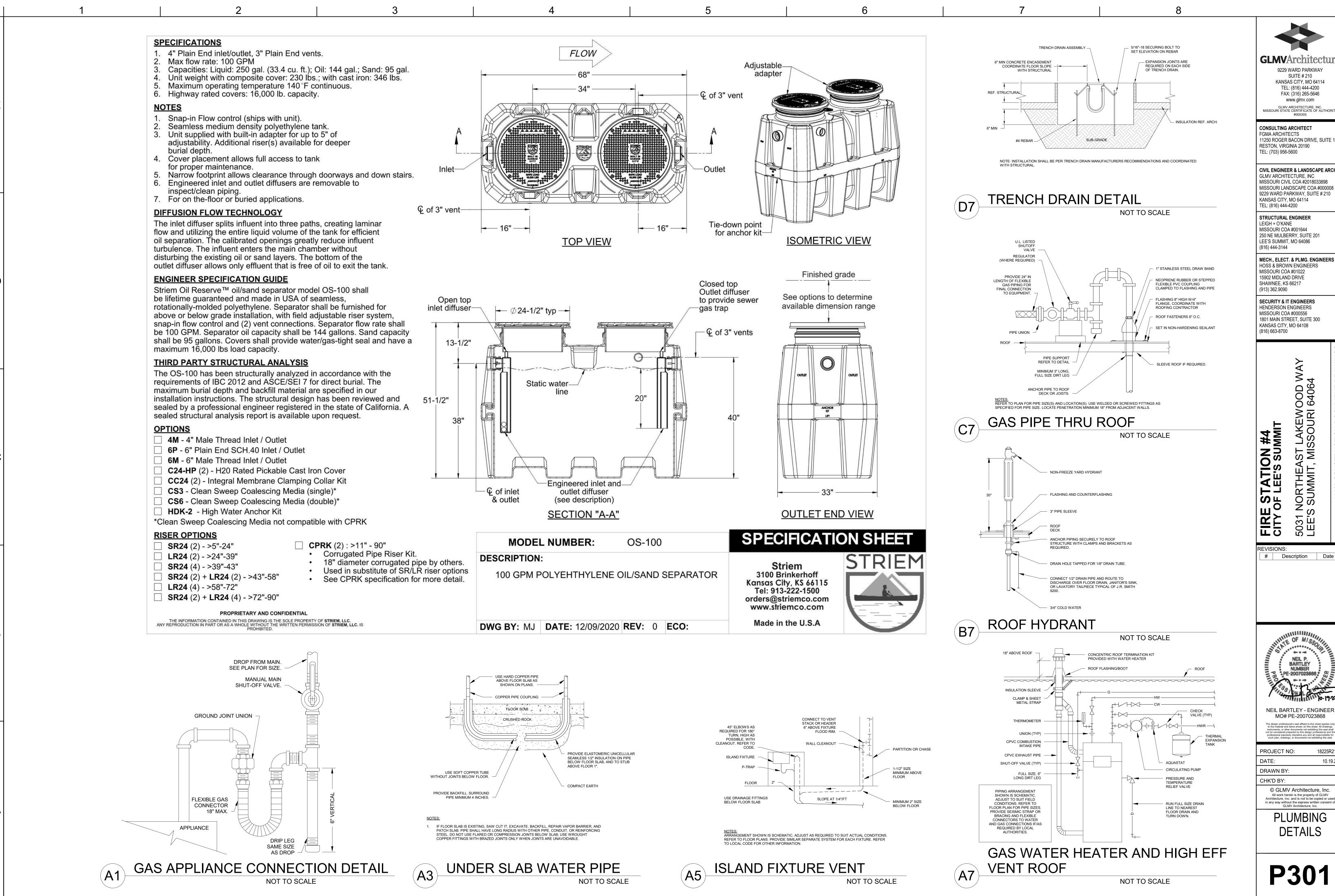
**PLUMBING SYMBOLS** 

LEGEND









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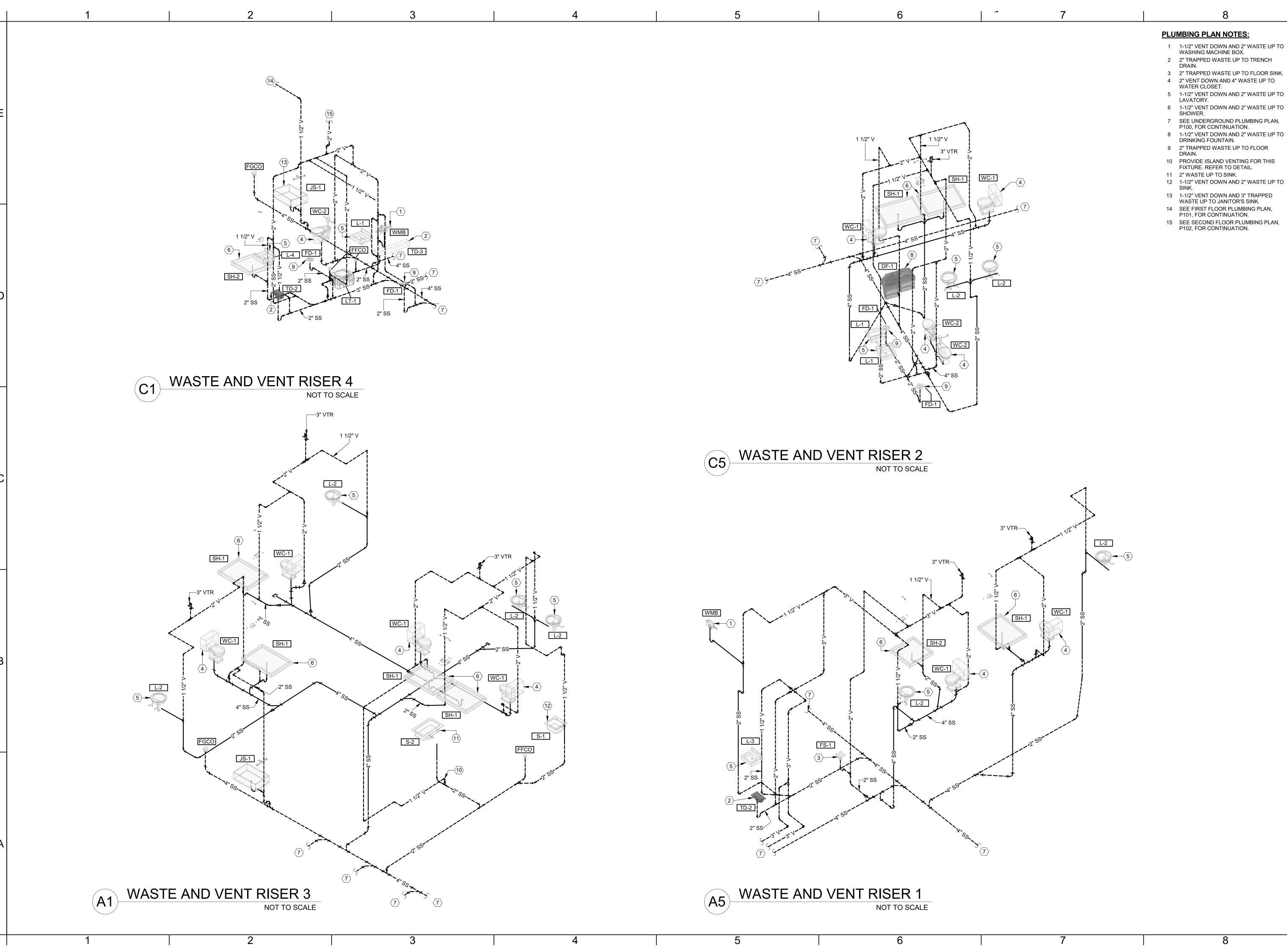
# Description

BARTLEY NUMBER \*PE-2007023868 **NEIL BARTLEY - ENGINEER** MO# PE-2007023868

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> **PLUMBING DETAILS**

P301



## **PLUMBING PLAN NOTES:**

- 1 1-1/2" VENT DOWN AND 2" WASTE UP TO WASHING MACHINE BOX.
- 2 2" TRAPPED WASTE UP TO TRENCH
- 3 2" TRAPPED WASTE UP TO FLOOR SINK.
- 4 2" VENT DOWN AND 4" WASTE UP TO
- 5 1-1/2" VENT DOWN AND 2" WASTE UP TO
- 6 1-1/2" VENT DOWN AND 2" WASTE UP TO
- P100, FOR CONTINUATION.
- 9 2" TRAPPED WASTE UP TO FLOOR
- 10 PROVIDE ISLAND VENTING FOR THIS
- 12 1-1/2" VENT DOWN AND 2" WASTE UP TO
- 13 1-1/2" VENT DOWN AND 3" TRAPPED
- WASTE UP TO JANITOR'S SINK.
- 14 SEE FIRST FLOOR PLUMBING PLAN,
- 15 SEE SECOND FLOOR PLUMBING PLAN,

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CITY OF LEE'S SUMMIT 5031 NORTHI LEE'S SUMMI

REVISIONS:
# Description Date

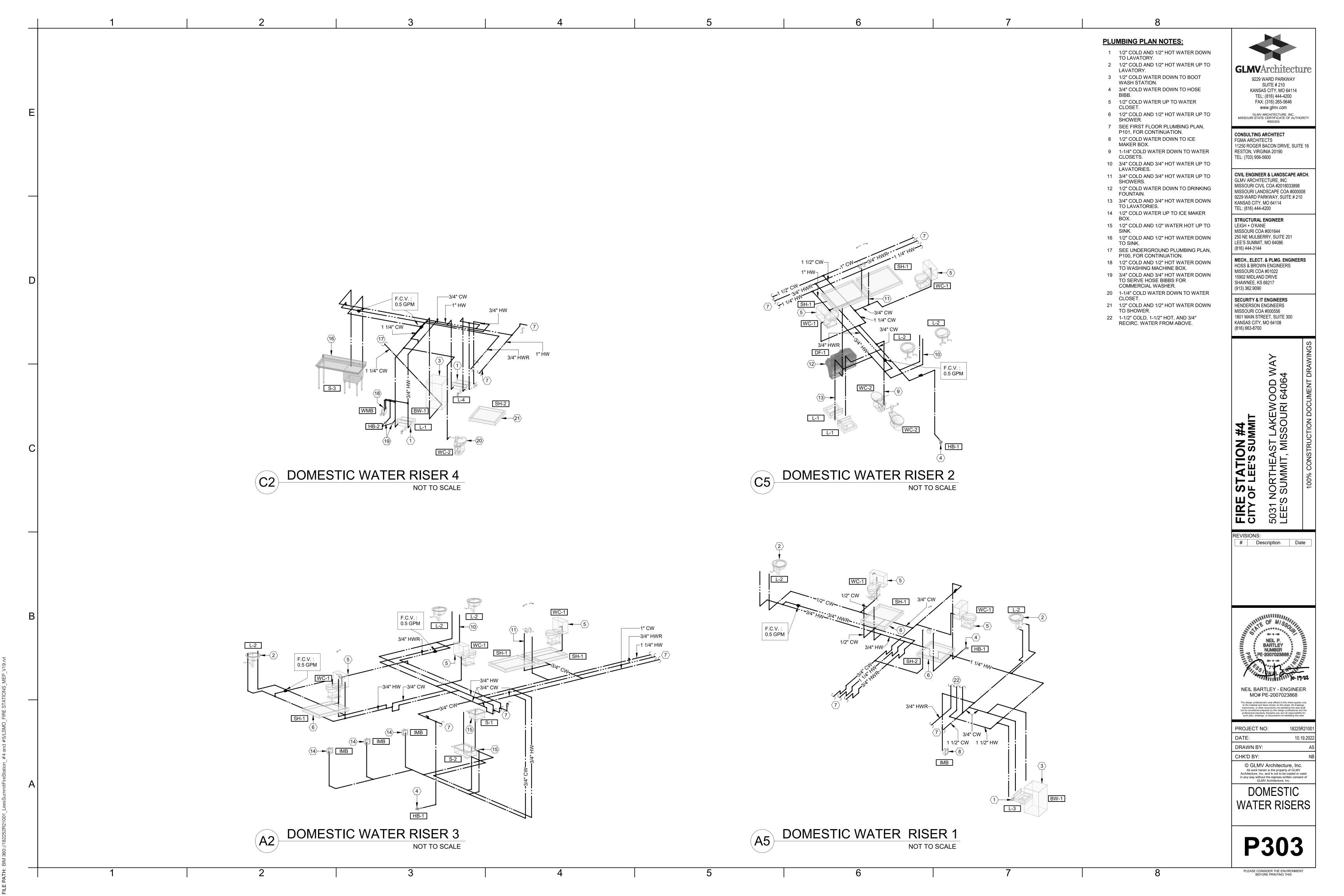
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WASTE AND **VENT RISERS** 

P302



						CONNECTIONS			
//ARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CW	HW	W	V	NOTES
	WASHING MACHINE			GALVANIZED					
WMB	CONNECTION BOX	GUY GRAY	B200	STEEL BOX	1/2"	1/2"	2"	1-1/2"	
IMB	ICE MAKER CONNECTION BOX	GUY GRAY	BIM875	GALVANIZED STEEL BOX	1/2"				
MV-1	POINT-OF-USE THERMOSTATIC MIXING VALVE	SYMMONS LEONARD POWERS	270-LF	0.25 GPM MIN. FLOW ASSE 1017 CERTIFIED LOW FLOW	SEE	PLAN			15
EW-1	FAUCET WITH INTEGRAL EMERGENCY EYE WASH	BRADLEY	S19-505M	FAUCET WITH SWING ACTIVATED EYE-WASH PROVIDE S19-2000 TMV	1/2"	1/2"			
ET-1	EXPANSION TANK	AMTROL TACO	THERM-X-TROL ST-12 PAX	WATER HEATER		3/4"			
RP-1	HIGH EFFICIENCY RECIRCULATION PUMP	TACO	006e3	1/40 HP, 120V AQUASTAT WITH 7-DAY DIGITAL TIMER 3.0 GPM, 8' HEAD					15
GD-1	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/2 HP, 120V					
HB-1	NON-FREEZE WALL HYDRANT	WOODFORD WADE SMITH	MODEL 65 8600 5609QT	VACUUM BREAKER LOOSE CONTROL KEY WALL CLAMP	1/2"				10
HB-2	ROUGH BRASS HOSE BIBB	WOODFORD CHICAGO	MODEL 24 998	VACUUM BREAKER DRAIN PLUG	1/2"				
RD-1	CAST IRON ROOF DRAIN WITH CAST IRON DOME	WADE ZURN SMITH	W-3000 ZC-100 1010-CID	ROOF DRAIN WITH FLANGE, FLASHING RING, GRAVEL STOP AND CAST IRON DOME					
RH-1	FREEZELESS ROOF HYDRANT NO DRAIN	WOODFORD FREEZE FLOW	2131R		3/4"				
2.	FIXTURE IS ADA COMPLIANT. RE FAUCET HOLES TO MATCH FAUC MOUNT WITH HANDICAPPED REC	ET SPECIFIED.		JAL MOUNTING HEIGHT.					

7. TOLIET FLUSH HANDLES SHALL BE MOUNTED ON THE OPEN SIDE OF THE WATER CLOSET OPPOSITE THE GRAB BALL WALL.

16. PROVIDE LOAD CLASS C, 9870-462-DGC DUCTILE IRON SLOTTED GRATE. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.

10. PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.

PROVIDE BLOCKING FOR FUTURE GRAB BAR INSTALLATION.
 COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.

12. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.

13. EQUIVALENT CARRIER BY WADE.
14. PLUG THE DRAIN FITTING AT THE BOX.
15. PIPE SIZE AS SHOWN ON DRAWING.

**GENERAL NOTES:** 

11. PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND

A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.

INSULATION	DESCRIPTION				DESCRIPTION									
TYPE 1	FIBER GLASS RIGID	MOLDED INSULA	ATION - JOHNS-MAN\	/ILLE MICRO-LOK, A	SJ JACKET, K-VALU	E = 0.23, MAX SERV	ICE TEMP = 850°F							
	VAPOR TRANSMISS	C1136 TYPE 1												
TYPE 2		PVC JACKETS, HIGH-IMPACT-RESISTANT, UV-RESISTANT, 30 MILS THICK, 1" OVERLAP AT LONGITDINAL SEAMS AND END JOINTS												
	COMPLIES WITH AS	-												
TYPE 3	1		EMBOSSED FINISH, L	ONGITUDINAL SLIP	JOINTS AND 2" LAP	S								
	COMPLIES WITH AS													
TYPE 4	1		E-MOLDED PIPE SUP				- T							
			SIVE STRENGTH: 100		•									
TYPE 5	LAVATORY PIPING COVERS - HANDICAPPED LAVATORY P-TRAPS AND HOT/ COLD WATER LINES SHALL BE INSULATED WITH													
	TRUEBRO LAV GUA	RD 2, FULLY MOL	DED VINYL INSULAT	ION SYSTEM VINVI	THICKNESS - 0.12	" ADA COMDITANT	MEETING							
						-	, MEETING							
	ASTM D-635, ASTM		COLOR SHALL BE CH			-	, MEETING							
NSULATED PIPE	<u> </u>					-	, IVILL TIING							
NSULATED PIPE	<u> </u>			INA WHITE AND PA		-	NOTES							
NSULATED PIPE	SUPPORTS		COLOR SHALL BE CH	INA WHITE AND PA	NTABLE WITH LATE	X PAINT.								
NSULATED PIPE	SUPPORTS PIPE SIZE		INSERT LENGTH	SHIELD LENGTH	SHIELD GAUGE	INSULATION	NOTES							
	SUPPORTS PIPE SIZE 1 1/2" TO 5"	G21, ASTM G22, (	INSERT LENGTH 6" 9"	SHIELD LENGTH  4" 6"	SHIELD GAUGE 20	INSULATION TYPE 4	NOTES 4							
	PIPE SIZE 1 1/2" TO 5" 6" TO 8"	G21, ASTM G22, (	INSERT LENGTH 6" 9"	SHIELD LENGTH  4" 6"	SHIELD GAUGE 20	INSULATION TYPE 4	NOTES 4							
NSULATION THI	PIPE SIZE 1 1/2" TO 5" 6" TO 8"  CKNESS FOR PIPES I	G21, ASTM G22, (	INSERT LENGTH 6" 9" THE BUILDING THER	SHIELD LENGTH  4" 6"	SHIELD GAUGE 20	INSULATION TYPE 4	NOTES 4							
NSULATION THI PIPING	PIPE SIZE 1 1/2" TO 5" 6" TO 8"  CKNESS FOR PIPES I  CONTINUOUS	G21, ASTM G22, C	INSERT LENGTH 6" 9" THE BUILDING THEF	SHIELD LENGTH  4"  6"  RMAL ENVELOPE	SHIELD GAUGE 20 16	INSULATION TYPE 4 TYPE 4	NOTES 4 4							
NSULATION THI PIPING SYSTEM	PIPE SIZE 1 1/2" TO 5" 6" TO 8"  CKNESS FOR PIPES I  CONTINUOUS VAPOR BARRIER	G21, ASTM G22, (  _OCATED WITHIN  <= 1 1/2"	INSERT LENGTH 6" 9" THE BUILDING THEF PIPE SIZE 2" - 4"	SHIELD LENGTH  4" 6" RMAL ENVELOPE  5" - 6"	SHIELD GAUGE 20 16 >= 8"	INSULATION TYPE 4 TYPE 4 INSULATION	NOTES  4 4 NOTES							
NSULATION THI PIPING SYSTEM CW	PIPE SIZE  1 1/2" TO 5"  6" TO 8"  CKNESS FOR PIPES I  CONTINUOUS  VAPOR BARRIER  YES	G21, ASTM G22, (  OCATED WITHIN  <= 1 1/2"  1"	INSERT LENGTH 6" 9" THE BUILDING THEF PIPE SIZE 2" - 4" 1"	SHIELD LENGTH  4" 6" RMAL ENVELOPE  5" - 6"	SHIELD GAUGE 20 16 >= 8" 1"	INSULATION TYPE 4 TYPE 4 INSULATION TYPE 1	NOTES  4 4 NOTES							

TOTAL CO	TOTAL CONNECTED GAS LOAD							
EQUIPMENT MARK	GAS LOAD (MBH)							
B 1	500.0							
DOAS 1	104.3							
ERV 1	196.2							
GENERATOR	2115.0							
GRILL	56.0							
RANGE OVEN	78.0							
WH 1	199.9							

3249.4

**TOTAL GAS LOAD: 7** 

1		
1.	ALL FITTINGS, VALVES, TEES, FLANGES, CONNECTIONS, ETC. SHALL BE INSULATED AND COVERED WITH THE APPROPRIATE	
	PVC INSULATED FITTING COVERS. FITTING COVERS SHALL MATCH PVC JACKETS. (FOR FIBER GLASS INSULATION)	
2.	SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.	
3.	PIPE INSERT THICKNESS SHALL BE EQUAL TO THE ADJOINING INSULATION THICKNESS.	
<b>GENERAL NOT</b>	ES: (APPLY ALL TO ABOVE)	
A.	THE BASIS FOR FIBER GLASS PIPE INSULATION AND FITTING COVERS IS JOHNS-MANVILLE WHICH SHALL REPRESENT THE MINIMUM	
	LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING AND KNAUF SHALL BE PERMITTED TO BID.	
B.	INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.	
C.	INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS	
D.	PROVIDE LAVATORY PIPING COVERS AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES	

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CW	ONNE HW	W	V	NOTE
NO 4	ADA FLOOR MOUNTED	AMERICAN STANDARD		OUUDOULOGOOO ODEN EDONT OFAT	4 (0)		411	0"	4 4 -
WC-1	FLUSH TANK WATER CLOSET-1.28 GPF	KOHLER TOTO	K-5310-0 CST454CEFG	CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1/2"		4"	2"	1, 4, 7
	ADA FLOOR MOUNTED	AMERICAN STANDARD		FLUSH VALVE: FV-1					
WC-2	FLUSH VALVE	KOHLER	K-96057-0		1-1/4"		4"	2"	4, 9
	WATER CLOSET	ТОТО	CT705ELN	TOTO SC534 OPEN FRONT SEAT					
	BATTERY POWERED	SLOAN	G2 811-1.6						
FV-1	SENSOR WATER CLOSET	ZURN	ZER6000AV-TM-WS1	1.6 GALLONS PER FLUSH					
	FLUSH VALVE	ТОТО	TET1GA						
		AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-7					
L-1	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005	20X18 BASIN, CONCEALED			2"	1-1/2"	2
		тото	LT307	ARM CARRIER, MIXING VALVE MV-1					
	SOLID SURFACE SINK	FURNISHED BY		FALIOFT, F.4			0"	4.4/0"	0
L-2	FURNISHED WITH COUNTERTOP	OTHERS	<del></del>	FAUCET: F-1			2"	1-1/2"	2
	COUNTENTO	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-3					
L-3	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005	20X18 BASIN, CONCEALED			2"	1-1/2"	2
		ТОТО	LT307	ARM CARRIER, MIXING VALVE MV-1					
	MALL HUNG LAVATORY	AMERICAN STANDARD		FAUCET: EW-1			0"	1-1/2"	0
L-4	WALL HUNG LAVATORY	KOHLER TOTO	KINGSTON K-2005 LT307	20X18 BASIN, CONCEALED  ARM CARRIER			2"	1-1/2	2
		1010	21007	7 HAW OF HARLE					
	ADA SINGLE BOWL	=11/11/	LRAD202265PD	FAUCET F-3			0.11	4 4 (01)	
S-1	18 GAUGE SELF RIM SINK	ELKAY	LUSTERSTONE	INTEGRAL DRAIN WITH STOP			2"	1-1/2"	1, 2,
	ADA SINGLE BOWL		LRADQ312265PD	FAUCET: F-3					
S-2	TOP MOUNT	ELKAY	LUSTERSTONE	GARBAGE DISPOSAL: GD-1			2"		1, 2,
	KITCHEN SINK SINGLE BOWL	JUST		33X22X5-1/2" SINGLE BOWL					
S-3	SINGLE BOWL SINK WITH TWO	JUST MANUFACTURING	NSFB-260-24RL-12/12	FAUCET: F-4			2"		2
-	DRAINBOARDS						<del>-</del>		
C 4	FLOOR MOUNTED	FIAT		FAUCET F-6	_		0"	4.4/0"	
S-4	TUB TYPE SERVICE SINK	FIAT	FL-1	INTEGRAL DRAIN WITH STOP			2"	1-1/2"	
10.4	MOLDED STONE	FIAT	MCD 2024	FAUCET: F-5;			3"	1-1/2"	
JS-1	MOLDED STONE	FIAT	MSB-3624	S/S BUMPERGUARDS,			3	1-1/2	
	JANITOR'S SINK			S/S WALL GUARDS FAUCET: HB-2					
3W-1	BOOT WASH	RHINO	AGRIWASH	DRAIN: TD-2					
				INTEGRAL SUMP, SS WATER LINES					
	ADA SINGLE LEVER	AMERICAN STANDARD	RELIANT 7385007	2.5 GPM, VANDAL RESISTANT				Π	
F-1	LAVATORY FAUCET	DELTA	501/520/523-WFHDF	POP-UP DRAIN, 4" CENTERS	1/2"	1/2"			3
	HANDS FREE	ZURN	SIERRA Z-7440-VP	THERMOSTATIC MIXING VALVE 0.5 GPM, SELF-GENERATING					
F-2	LAVATORY	тото	TEL105-D10E	BATTERY, THERMOSTATIC MIXING	1/2"	1/2"			
_	FAUCET			VALVE, GRID STRAINER, COVER PLATE					
F 0	ADA SINGLE LEVER	AMERICAN STANDARD		HAND SPRAY	4 (01)	4 (0"			0
F-3	KITCHEN FAUCET	DELTA MOEN	400-WFELHHDF BANBURY 87017	CUP STRAINER DRAIN 2.5 GPM, 8" CENTERS	1/2"	1/2"			3
	ADA TWO-HANDLE	DELTA	28T6443	SWING SPOUT					
F-4	WALL-MOUNT SINK FAUCET	ZURN T&S	Z-841H1 B-0290	MOUNT ON BACKSPLASH	1/2"	1/2"			
	JANITOR'S SINK	AMERICAN STANDARD		VACUUM BREAKER, WALL BRACE,					
F-5	FAUCET	FIAT	830-AA	PAIL HOOK, 30" HOSE WITH WALL	3/4"	3/4"			
	TUB TYPE	DELTA FIAT	28T9-AC A-1	GRIP, MOP HANGER DECK FAUCET					
F-6	SINK FAUCET	FIAT	A-1	4" CENTERS	3/4"	3/4"			
г -	HANDS FREE LAVATORY	TOTO	TEL 405 D40E	0.5 GPM, SELF-GENERATING	1/0"	4 /0"			
F-7	FAUCET	ТОТО	TEL105-D10E	BATTERY, THERMOSTATIC MIXING VALVE, GRID STRAINER	1/2"	1/2"			
DF-1	ADA WALL HUNG BI-LEVEL DRINKING FOUNTAIN	ELKAY	EXSTLDDWSVRLK	<u>_</u>	1/2"		2"	1-1/2"	3, 4
- I - I	WITH BOTTLE FILLING STATION	LLIVII			., _				
	48"x36"			WHITE CERAMIC BASE					
SH-1	48"X36" SHOWER BASE	AQUATIC	SB4836	CENTER DRAIN			2"	1-1/2"	8
				3" THRESHOLD, SHOWER VALVE: SV-1			<u>-</u>		
оп о П	36"x36" SHOWER BASE	AQUATIC	SB3636	WHITE CERAMIC BASE CENTER DRAIN		_	2"	1-1/2"	8
SH-2	SHUWEK BASE	AQUATIC	JDJ0J0	CENTER DRAIN 3" THRESHOLD, SHOWER VALVE: SV-1			2	1-1/2"	ď
	OIN 101 T 1 T 1 T 1								
SV-1	SINGLE LEVER PRESSURE BALANCE	DELTA	T13H133	1.75 GPM CHROME FINISH	1/2"	1/2"			11
• v - 1	SHOWER FAUCET	DLLIA	11011100	SHOWER VALVE	1/4	114	- <del>-</del>		1.1
	711 001 112		1100075						
FD-1	7" ROUND FLOOR DRAIN	WADE ZURN	1100STD Z-415	NICKEL BRONZE STRAINER DEEP SEAL TRAP			_		
ו-טו	FLOOR DRAIN	SMITH	2-415 2005	DEEF SEAL IRAP					
	8" SQUARE	WADE	9110	6-1/4" DEEP BODY, ENAMELED					
FS-1	FLOOR SINK	ZURN SMITH	Z-1910 3100	INTERIOR, SEDIMENT BUCKET, NICKEL BRONZE RIM AND GRATE					
		OIVII I TI	3100	6" WIDE POLYPROPYLENE CHANNEL					
TD-1	TRENCH DRAIN	SMITH	9940-DCG-3	w/COATED STEEL FRAME RADIUSED BTM			4"		16
				9870-462-DGC DUCTILE IRON SLOTTED					
TD-2	MINI-TRENCH DRAIN	ZURN	Z-664	6" WIDE, 12" LONG, CAST IRON WITH BOTTOM OUTLET, DOME					
		201111		STRAINER, SLOTTED GRATE					
TD ^	LAUNDDY TRENCY TEXT	1111 005111111	DDANI TOOMS	POLYPROPYLENE BODY AND LID			<b>6</b> "		
TD-3	LAUNDRY TRENCH DRAIN	H-M COPMANY	DRAIN TROUGH	OMIT ALL SCREENS AND STRAINERS 12" WIDE x 12" DEEP, SIDE OUTLET			2"		
		+		35 GPM, POLYETHYLENE					
LT-1	SMALL BASKET-STYLE SOLIDS INTERCEPTOR	STRIEM	AA-S	1/8" DIAMETER SCREEN PERFORATIONS,		I	2"	1	

PLUMBING FIXTURE SCHEDULE

<b>EQUIPMENT</b>			CAPACITY	INPUT		RECOVERY	VOLT/
MARK	MANUFACTURER	MODEL	(GAL)	(BTUH/H)	<b>EFFICIENCY</b>	(GPH)	PHASE
WH-1	A.O. SMITH	BTH-199	100	199.0	0.96	261.0	120/1
SENERAL NO	TES (APPLIES TO AL	L ABOVE):					
A.	PROVIDE ASME PRE	SSURE AND TEM	PERATURE RELI	EF VALVE.			
B.	PROVIDE DIELECTR	IC CONNECTIONS	AT WATER HEA	TER.			
C.	ALL WATER HEATER	RS 200 MBH OR LA	RGER SHALL HA	VE ASME RATIN	NG.		
D.	<b>RESTROOM RECOV</b>	ERY BASED ON 90	DEGREE TEMPI	ERATURE RISE.			
E.	PROVIDE CONDENS	ATE DRAIN FOR F	LUE VENT COND	ENSATE WITH	A 2" TRAP. PROV	IDE A CONDENSA	ATE
			CONDENSATE				

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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAN
LEE'S SUMMIT, MISSOURI 64064

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NEIL BARTLEY - ENGINEER MO# PE-2007023868

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PROJECT NO: 18225R21001

DATE: 10.19.2022

DRAWN BY: AS

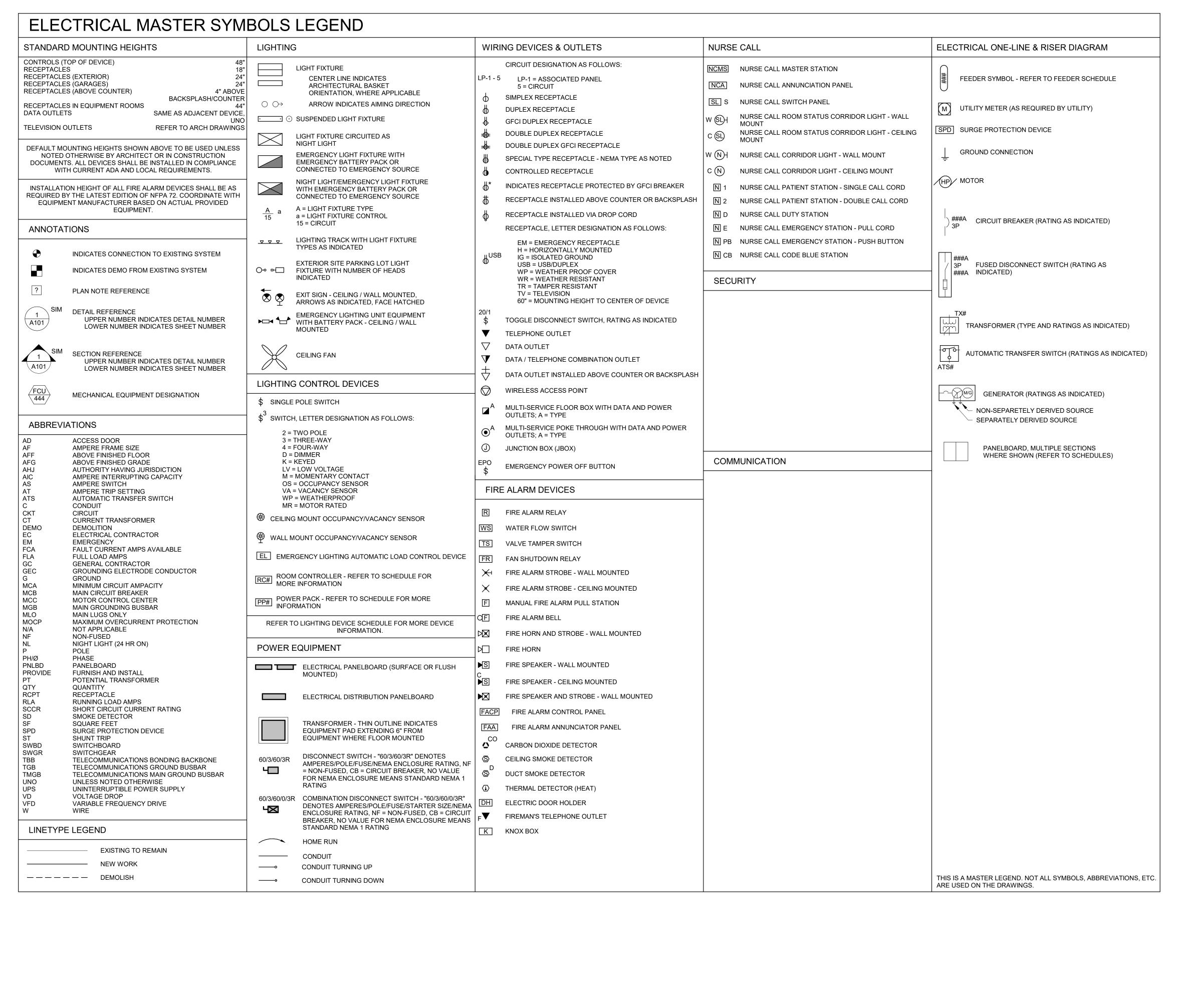
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SCHEDULES

P401



**ELECTRICAL GENERAL NOTES:** 

INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DE-RATE GROUPED IN COMMON RACEWAYS.

C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED

D. PROVIDE FIRESTOPPING ON CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE LOCATION AND RATINGS OF WALLS WITH ARCHITECTURAL DRAWINGS.

E. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST

BE INSTALLED IN SEPARATE STUD CAVITIES. F. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES. G. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH

PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS. H. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS. THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED

I. ALL WIRES RUN BELOW GRADE. IN CONCRETE THAT IS BE WET LOCATION LISTED.

COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION. K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE

ALARM CONTROL PANELS. L. PROVIDE BLANK COVER PLATES FOR ALL EXISTING OPEN J-BOXES LOCATED IN EXISTING WALL.

M. MAINTAIN ALL EXISTING CIRCUIT CONTINUITIES.

O. PROVIDE DUCT SMOKE DETECTORS IN RETURN AIR

P. THE FIRE ALARM SCOPE OF WORK IS A DELEGATED DESIGN AND DEFERRED SUBMITTAL REQUIRING FIRE ALARM SUBCONTRACTOR STAMPED ENGINEERING AND SUBMISSION TO THE AHJ FOR REVIEW/APPROVAL. IT IS THE RESPONSIBILITY OF THE ELECTRICAL AND FIRE ALARM SUBCONTRACTORS TO PROVIDE A FULLY COORDINATED, COMPLETE, AND CODE COMPLIANT

SYSTEM DESIGN AND INSTALLATION. Q. GROUND FAULT INTERRUPTER RECEPTACLES SHALL

R. ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE 2017 NEC.

S. TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED AT ALL LOCATIONS AS REQUIRED BY SECTION 406.12 (DWELLING UNITS) OF THE 2017 NEC.

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND

CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN

SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

PULL-STRINGS UP TO ACCESSIBLE LOCATION IN

WITH A JUMBO COVERPLATE.

IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY.

N. PROVIDE ROUGH-IN BOXES AND CONDUIT FOR THERMOSTATS AS INDICATED.

PATHS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND LARGER AND WHERE SHOWN ON PLANS. INTERLOCK WITH AIR HANDLING EQUIPMENT TO SHUT DOWN UNIT UPON SMOKE DETECTION.

BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN

SECTION 210.8 OF THE 2017 NEC.

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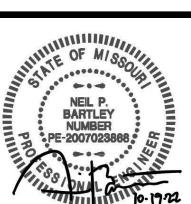
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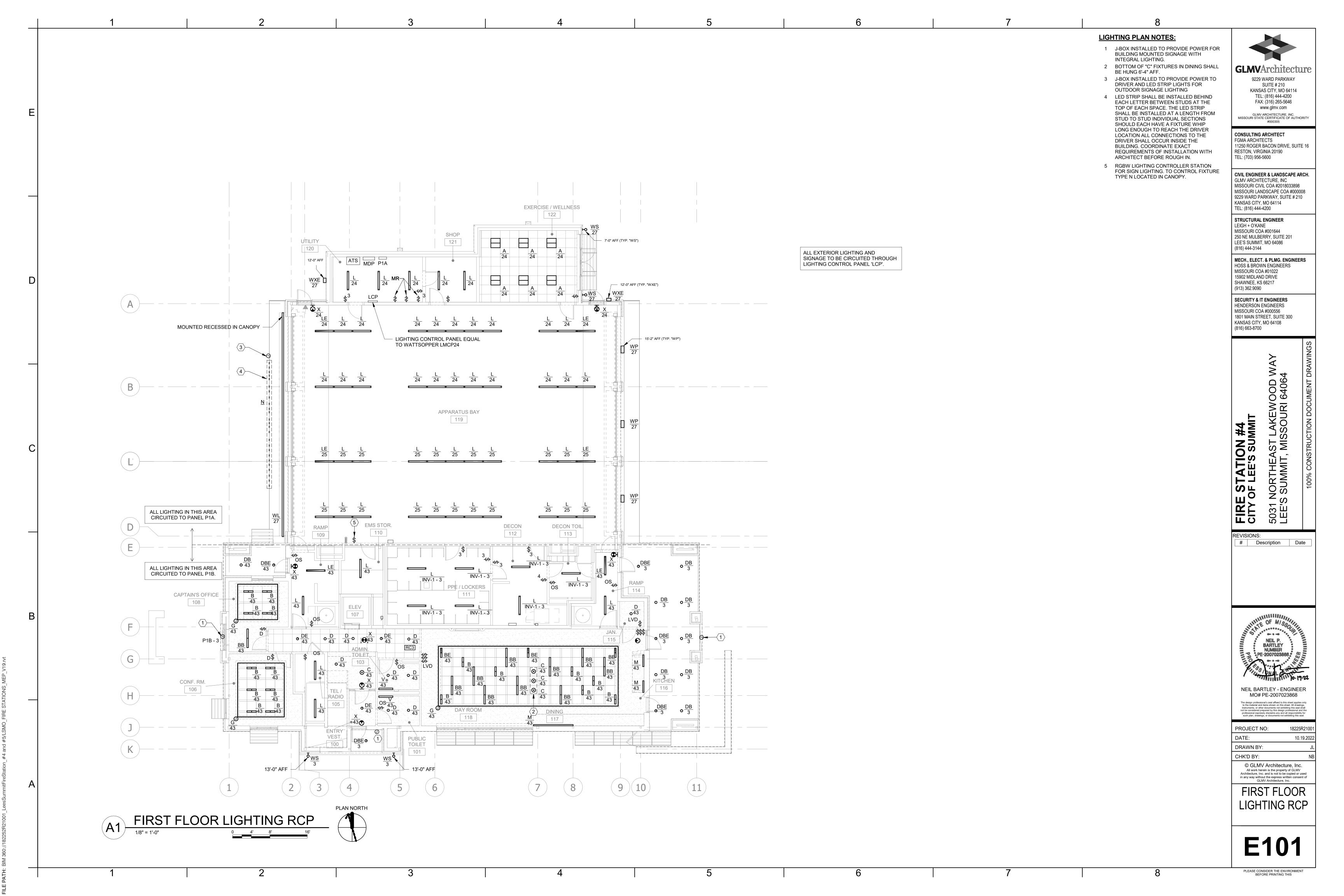


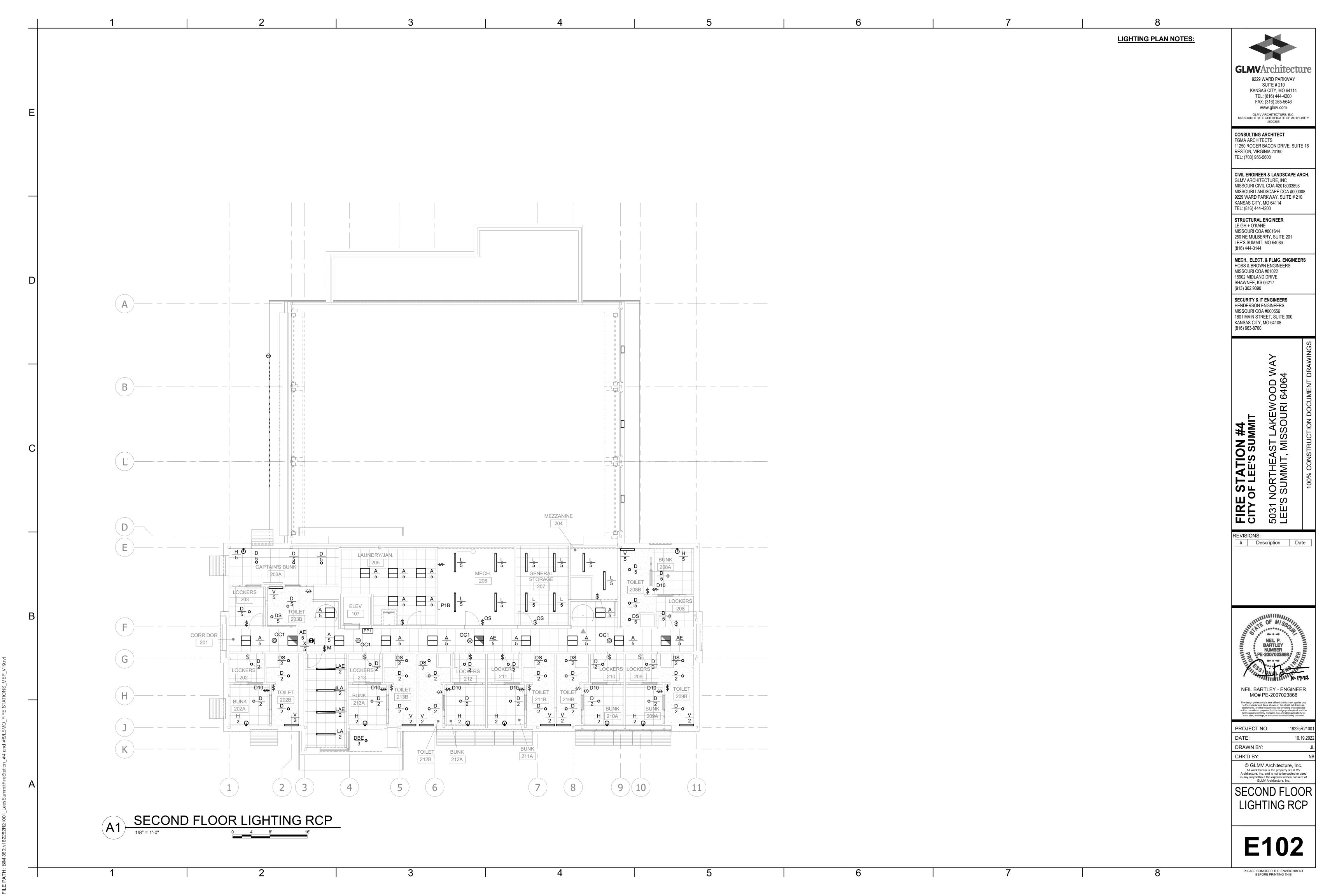
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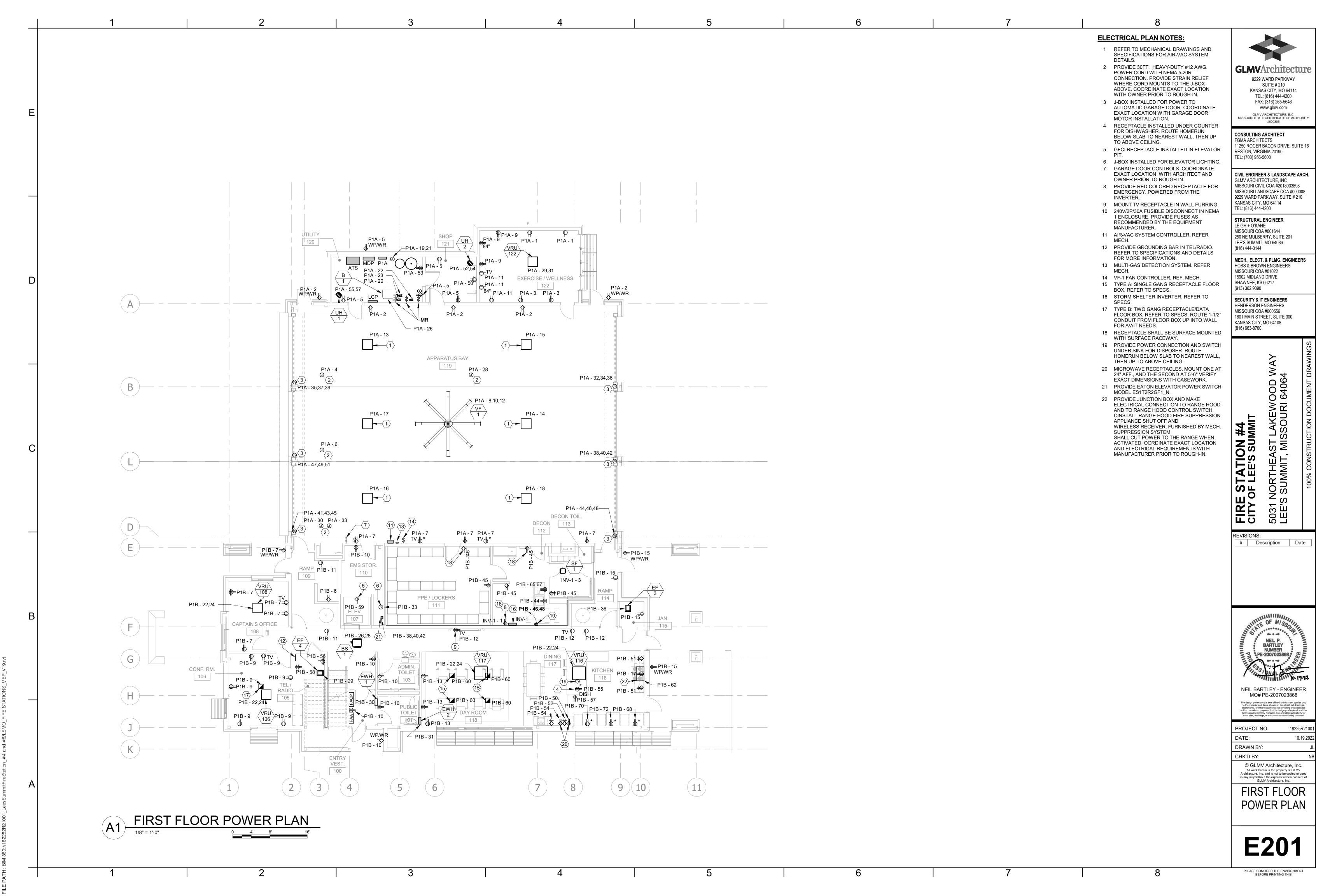
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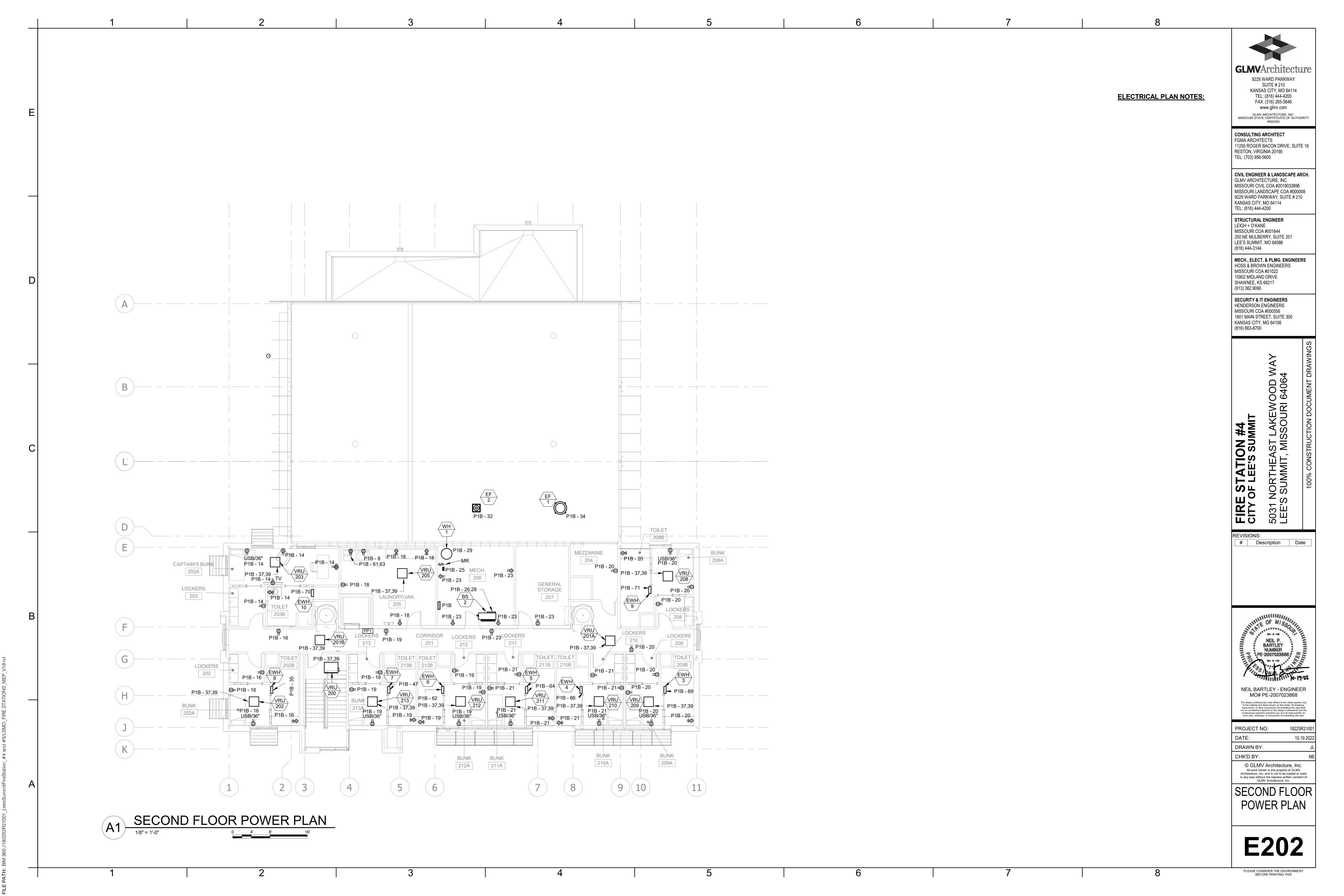
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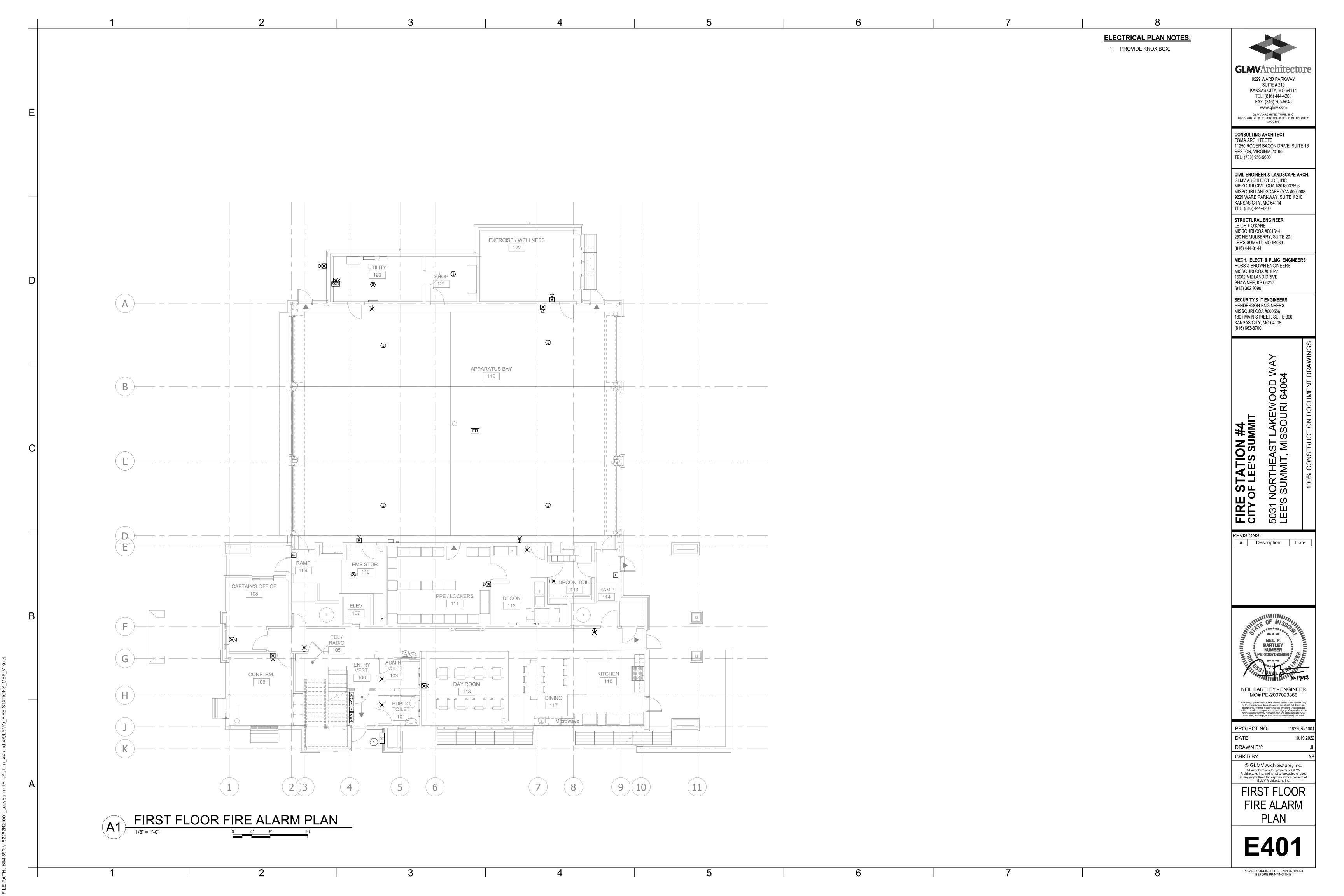
**ELECTRICAL SYMBOLS** LEGEND

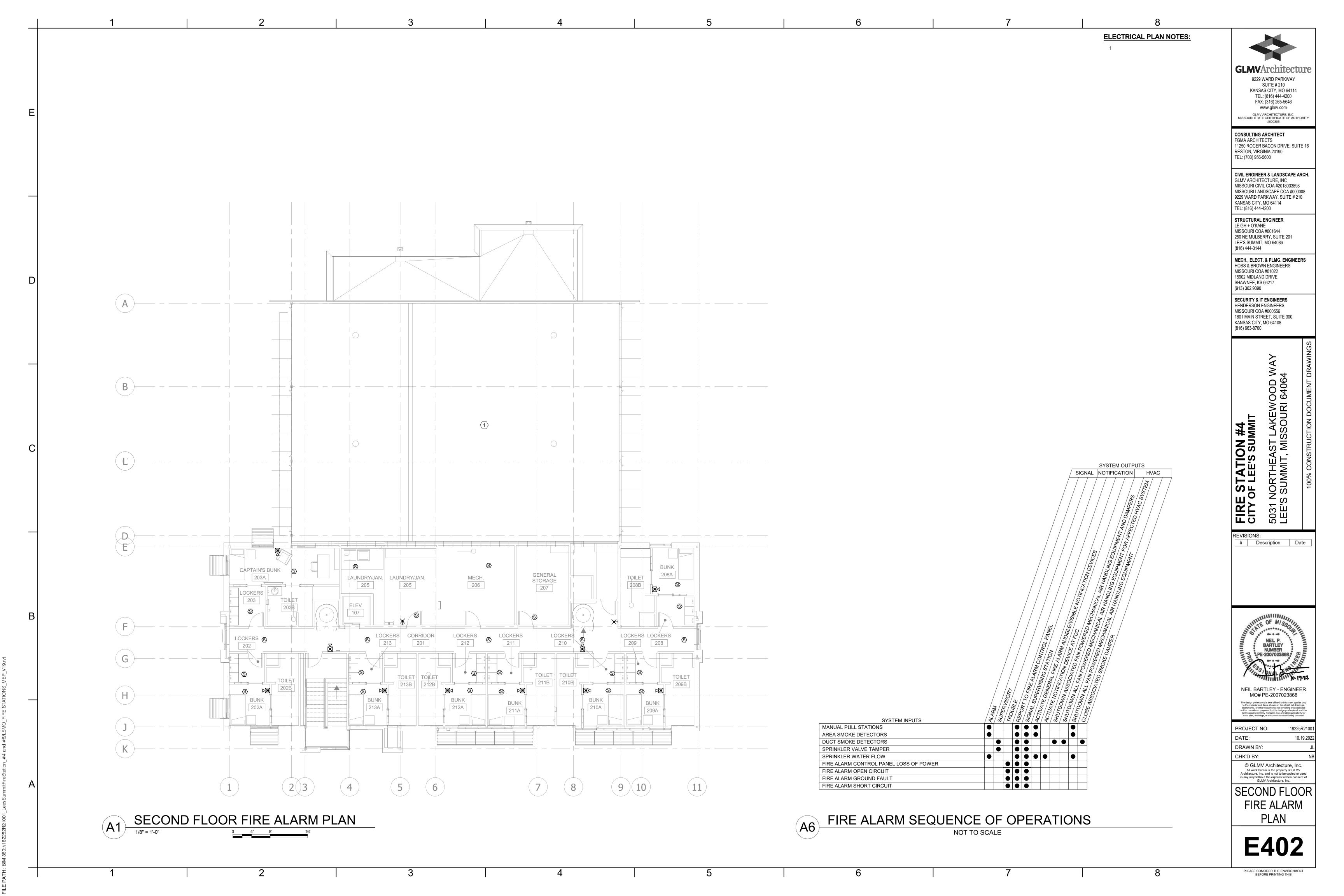


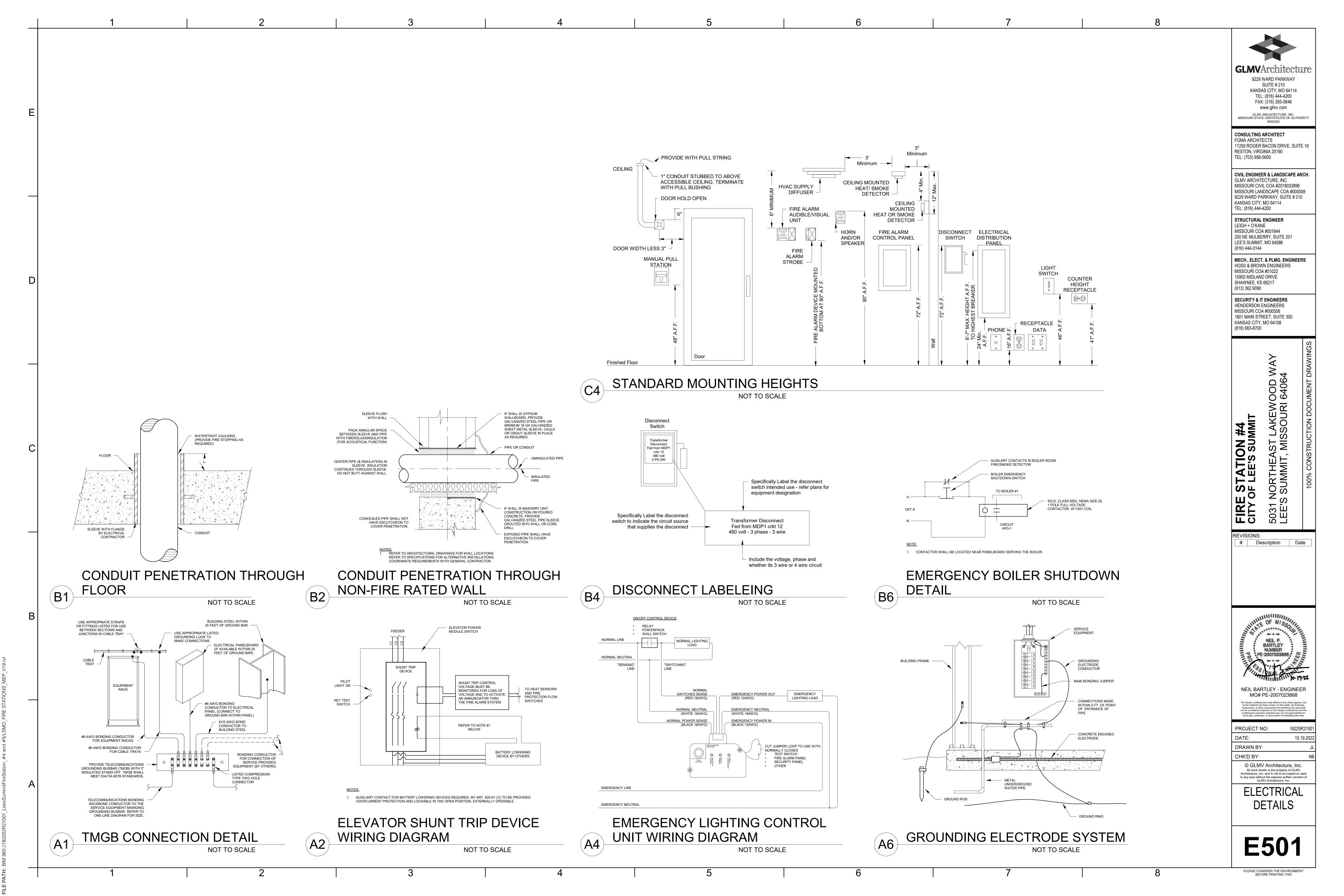


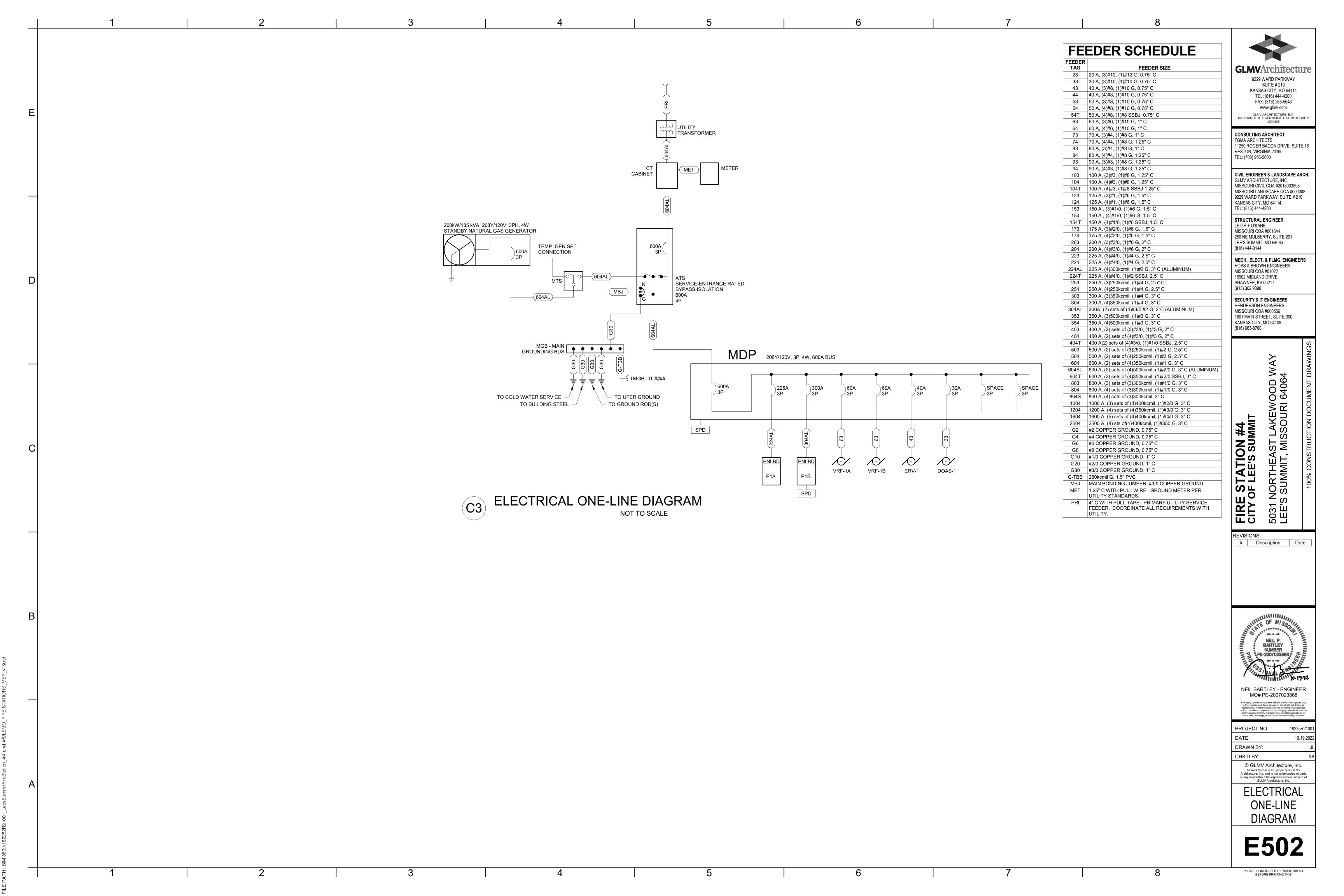












	1 2 3	4	5	6	7	8	
		LIGHT FIXTURE	SCHEDULE				
		FIXTURE	EQUIVALENT	LIGHT SOURCE COLOR DIMM	IMING MOUNTING INPUT INPUT		
		TAG MANUFACTURER		TYPE LUMENS TEMP CRI TY	YPE         TYPE         VOLTAGE         WATTS         VA           10V         RECESSED         120         37         41         2X2 RECES		NOTES
						SSED TROFFER WITH INTERGRAL EMERGENCY 1,3	,3
Е				LED 1600 3000 K 80 0-1 LED 3200 3000 K 80 0-1		ED STRIP FIXTURE 1 ED STRIP FIXTURE 1	
		BE HE WILLIAMS LRX4F-2-L8/		LED 1600 3000 K 80 0-1	10V RECESSED 120 13 15 2' RECESSI BATTERY	ED STRIP FIXTURE WITH EMERGENCY BACKUP 1	
					10V         PENDANT         120         9         10         DECORATION           10V         RECESSED         120         9         10         4" RECESS		,6,7
				LED 1000 3000 K 80 0-1 LED 1000 3000 K 80 0-1	10V RECESSED 120 9 10 6" RECESS		,2 ,2,4
		DE HE WILLIAMS 4DR-TL-L10/		LED 1000 3000 K 80 0-1		THER EMERGENCY BATTERY ED DOWNLIGHT WITH EMERGENCY BACKUP BATTERY 1	
			OF -DIM-UNV-OW-OF 0/830-DIM-UNV-SW-OF-WH-A	LED 1000 3000 K 80 0-1	10V RECESSED 120 9 10 4" RECESS	ED DOWNLIGHT SHOWER RATED	
			D	150			.4.7
		G ACCLAIM LIGHTING			10V CHANNEL 120 3 3 LED TAPEL		,8,9
		H ARTEMIDE	SKOPOS	LED 72 3000 K 80 -	WALL 120 1 1 WALL MOU MOUNT	INT FLEXABLE DESK LIGHT	
				LED 3800 3000 K 80 0-1	D	SUSPENDED STRIP FIXTURE	
		LA FOCAL POINT FSM4LS-BW	4	LED 2500 3000 K 80 0-1	D		
		LAE FOCAL POINT FSM4LS-BW	4-1EM		10V SUSPENDE 120 22 24 4' SUSPENIO D 22 24 4' SUSPENIO D 24 25 41 ENSERD		
		LE HE WILLIAMS 75L-4-L38/83  M TASK LIGHTING	NV	LED         3800         3000 K         80         0-1           LED         200         3000 K         80         0-1	D BACKUP BA	SUSPENDED STRIP FIXTURE WITH EMERGENCY ATTERY BINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS	
D				LED 425 90 0-1	PER FOOT.		1
		S1 LITHONIA DSX1 LI	LED P4 30K T4M MVOLT	LED 13165 3000 K 80 -	POLE 120 125 139 POLE MOU	NTED SITE LIGHITNG FIXTURE	.,10
				LED 900 3000 K 80 0-1	FIXTURE		
				LED 2578 3000 K 80 -		LINEAR WALL-WASH FIXTURE. 4 FT SECTIONS, 7.5 2	
			A-F01M-EF-UNV-DIM10 ED P2 30K 80CRI MVOLT SRM	LED 8500 3000 K 80 -	WALL 120 15 17 EXTERIOR MOUNT	ENS OUTPUT PER 4 FT WALL PACK 2	
		WS BEGA	24 582	LED 1581 3000 K 85 -		WALL SQUARE DOWN LIGHT 2	
		WXE ACUITY WDGE2 P1:	P130K 80CRI VF MVOLT SRM	LED 1200 3000 K 80 -		WALL PACK WITH COLD-WEATHER EM BATTERY 2,4	,4
		X H.E. WILLIAMS EX	XIT-R-EM-WHT-SDT	LED	UNIVERSAL 120	3,5	.5
С		6. MOUNT FIXTURE 6'-4" ABOVE FINISHE 7. REFER TO ARCHITECTURAL DRAWING 8. PROVIDE CONTINUOUS RUN LENGTHS 9. MOUNT WITHIN ARCHITECTURAL SOF 10. POLE MOUNT FIXTURE AT 25'-0" ABOV 11. PROVIDE FIXTURES WITH CH-409-WH SHALL VERIFY LENGHTS REQUIRED W  GENERAL NOTES: A. CONTRACTOR SHALL VERIFY CEILING B. PROVIDE ALL REQUIRED ACCESSORIE C. REFERENCE PLANS FOR FIXTURES RI	THER EMERGENCY DRIVER. DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN HED GRADE. NGS FOR EXACT LOCATION. HS AS SHOWN ON PLANS. DEFIT WHERE SHOWN. REFER TO ARCHITETUARAL DVE GRADE. H ALUMINUM MOUNTING CHANEL WITH LENS. HLV: WITH ARCHITECT AND STRUCTURAL FRAMING. TV  NG TYPE PRIOR TO ORDERING ALL FIXTURES. RIES FOR A COMPLETE INSTALLATION.	L PLAN FOR SOFFIT DETAILS. /96 90W INTERIOR RATED DRIVER (2 REQUIRED	D), AND RFC-A-RGBW-3S-IW-W WALL CONTROLLER. CONTRA I OF LED LIGHTING EVENLY BETWEEN THE TWO.	ACTOR	
			LIGHTING DEVI	CE SCHEDULE			
_			DEVICE MANUFACTURER M	MODEL DESCRIPTION	SENSO ON DIMMING ON MODE SENSOR TO		NOTES
			AUXILIARY DEVICES PP1 WATTSTOPPER	BZ150 OCCUPANCY SENSOR POWER PACE	CK	20 A PLENUM 120	
			CEILING-MOUNTED OCCUPANCY SENSO			20 A PLENUM 120	
				CI-305 (LOW VOLTAGE PIR CEILING OCCUP PROGRAMMED TO AUTO ON/AUTO O		ED 30 MIN CEILING 24 1,2	2,3,4
			OCCUPANCY SENSOR SWITCH OS WATTSTOPPER F	PW-101 (LINE VOLTAGE INFRARED OCCUPAL PROGRAMMED TO AUTU ON/AUTO O		ED 30 MIN 0 A WALL 120 3,5	5
			WALL SWITCHES D10 LUTRON DV	VSTV-XX LINE VOLTAGE 0-10V DIMMING WALL		8 A WALL 120	
В			LVD WATTSTOPPER LN	MDM-101 (LOW VOLTAGE DIMMING WALL SW		8 A WALL 120 WALL 24	
			NOTES:	D DAMOE I ENOE			
				CORRIDOR DETECTION WHEN USED IN CORR	RIDORS. SED ON OCCUPANCY. IF LOAD IS TURNED OFF MANUALLY, LO	OAD REMAINS OFF UNTIL 5 MINUTES AFTER OCCUPANT	
					ITTON TO ENERGIZE THE LOAD. LOAD REMAINS ENERGIZED	UNTIL NO MOTION IS DETECTED FOR THE SELECTED TIN	ME
			DELAY. 5. MANUAL OVERRIDE SWITCH SHALL OCCUPANCY.	L DE-ENERGIZE LOAD DURING OCCUPANCY FO	OR THE DURATION OF THE SET TIME DELAY. MANUAL ON SV	VITCH SHALL ENERGIZE LOAD FOR THE DURATION OF	
			GENERAL NOTES:	OR FROM MANUFACTURER'S COLOR PALATE DI	DUDING THE SUBMITTAL DROCESS		
			<ul><li>B. PROVIDE POWER PACKS FOR ALL I</li><li>C. PROVIDE POWER PACK TYPE AND</li></ul>	LOW VOLTAGE OCCUPANCY SENSORS.  QUANTITY RECOMMENED BY MANUFACTURES	R FOR DEVICES SCHEDULED.		
			D. PROVIDE ALL REQUIRED WIRING FOR DUAL TECHNOLOGY SENSORS OCCURETRIGGER WHEN OPTION IS AVAI	CUPANCY LOGIC SHALL BE SELECTED FOR DE	E MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED ETECTION BY EITHER TECHNOLOGY AND SHOULD ONLY RE	WIRING. QUIRE ONE FOR INITIAL AND MAINTAINED OCCUPANCY A	AND
			F. ALL WALL SWITCHES WITH MORE T		IING SHALL BE ENGRAVED WITH THE SCENE FUNCTION. TEX DEL LMCT-100.	(T SHALL BE SELECTED DURING THE SUBMITTAL PROCE	ESS.
			L				
						PANELBOARD SCHEDULE LEGEND OL REFER TO ONE-LINE DIAGRAM	
Α						AF ARC FAULT CIRCUIT BREAKER GF GROUND FAULT CIRCUIT BREAKER	
						GFEP GROUND FAULT EQUIPMENT PROTECTION FA PROVIDE RED HANDLE-ON CLAMP FOR FIR	N BREAKER RE ALARM
						CIRCUIT  HLO PROVIDE PAD LOCKABLE-OFF DEVICE CAP SECURING BREAKER HANDLE IN THE OFF	
						ST PROVIDE SHUNT TRIP DEVICE FOR BREAK	

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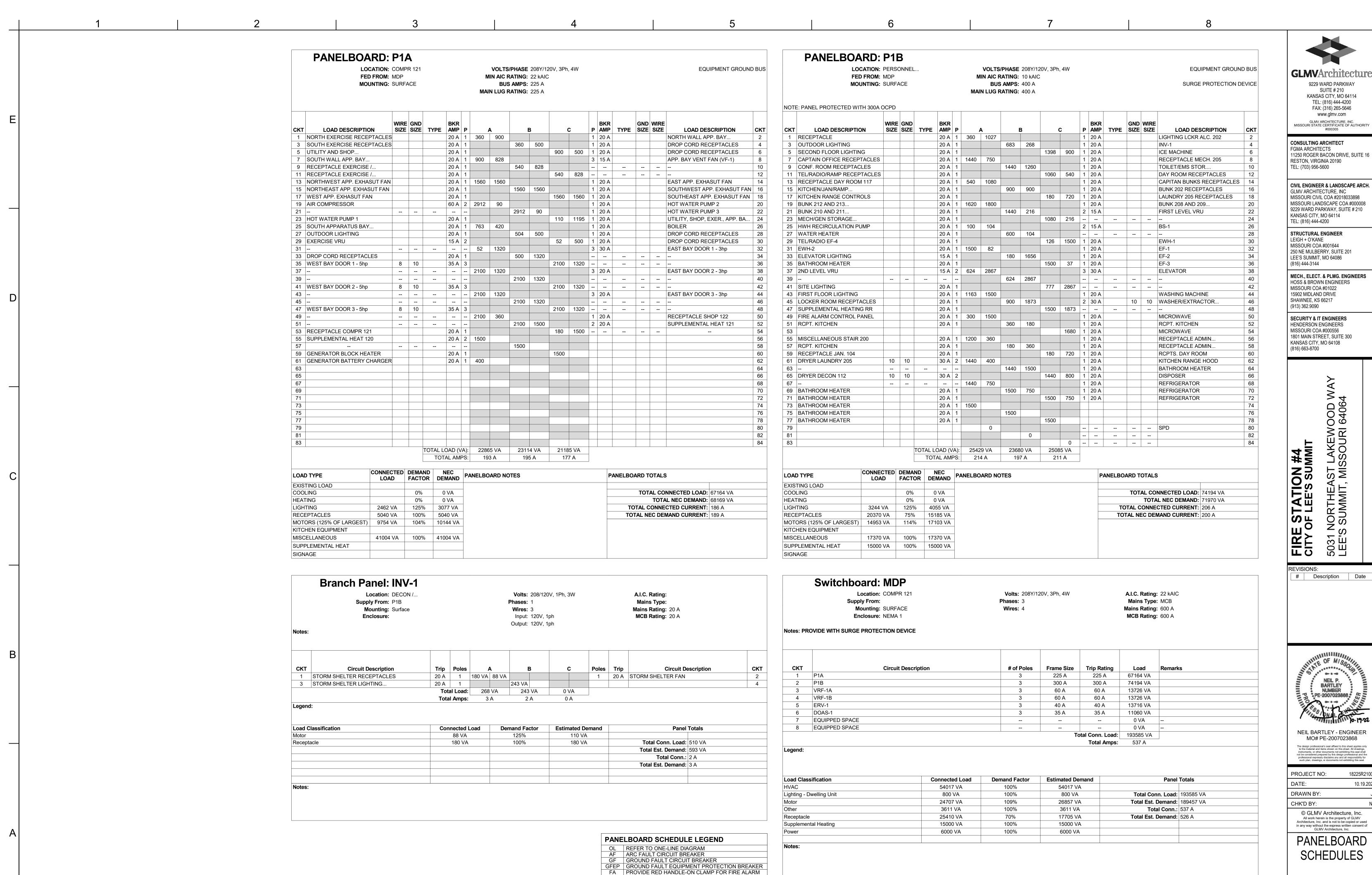
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ELECTRICAL SCHEDULES



HLO PROVIDE PAD LOCKABLE-OFF DEVICE CAPABLE OF

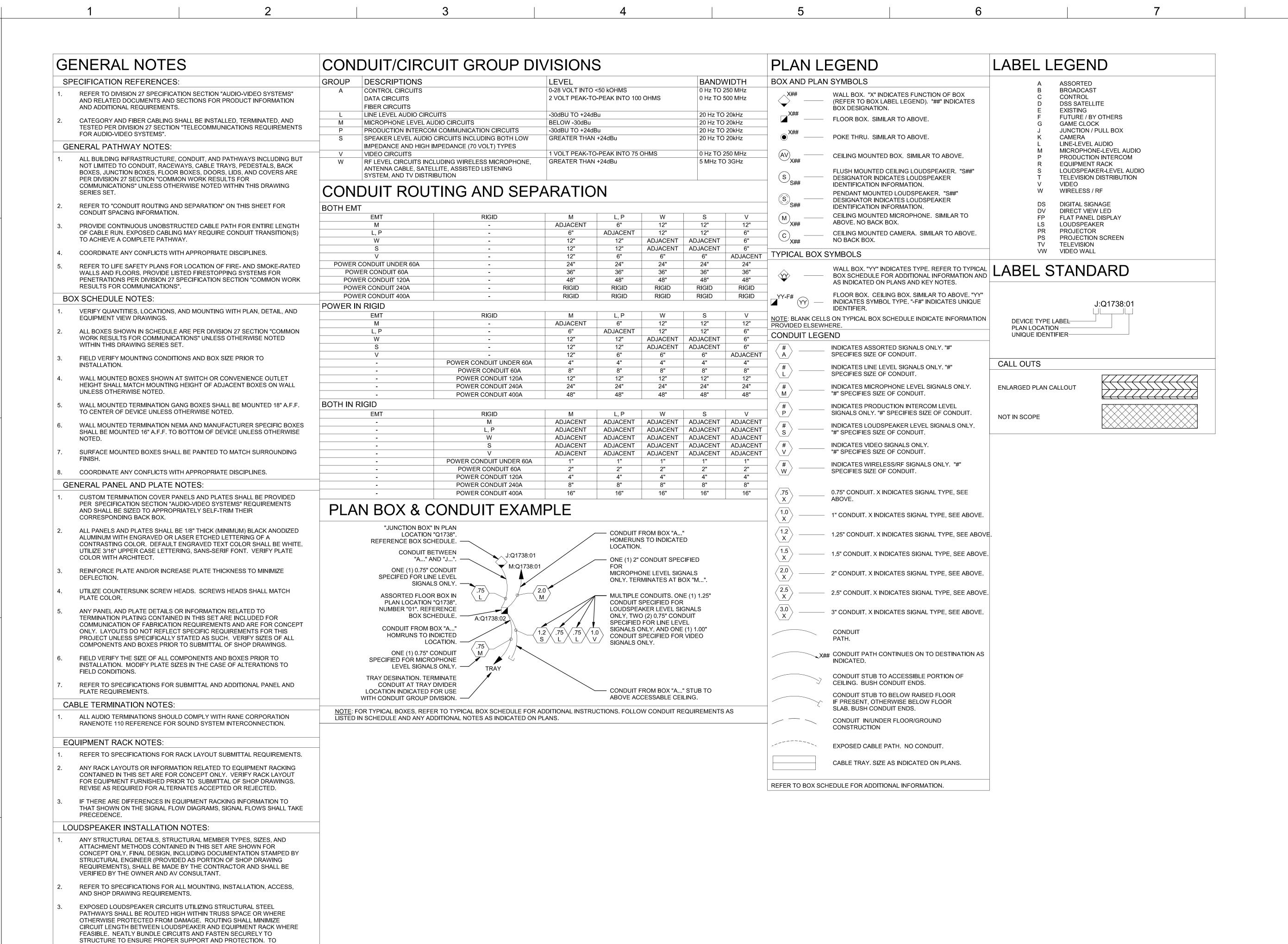
ST PROVIDE SHUNT TRIP DEVICE FOR BREAKER

2

SECURING BREAKER HANDLE IN THE OFF POSITION.

18225R21001

10.19.2022



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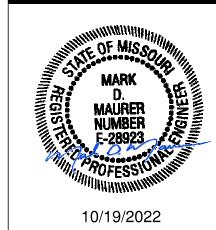
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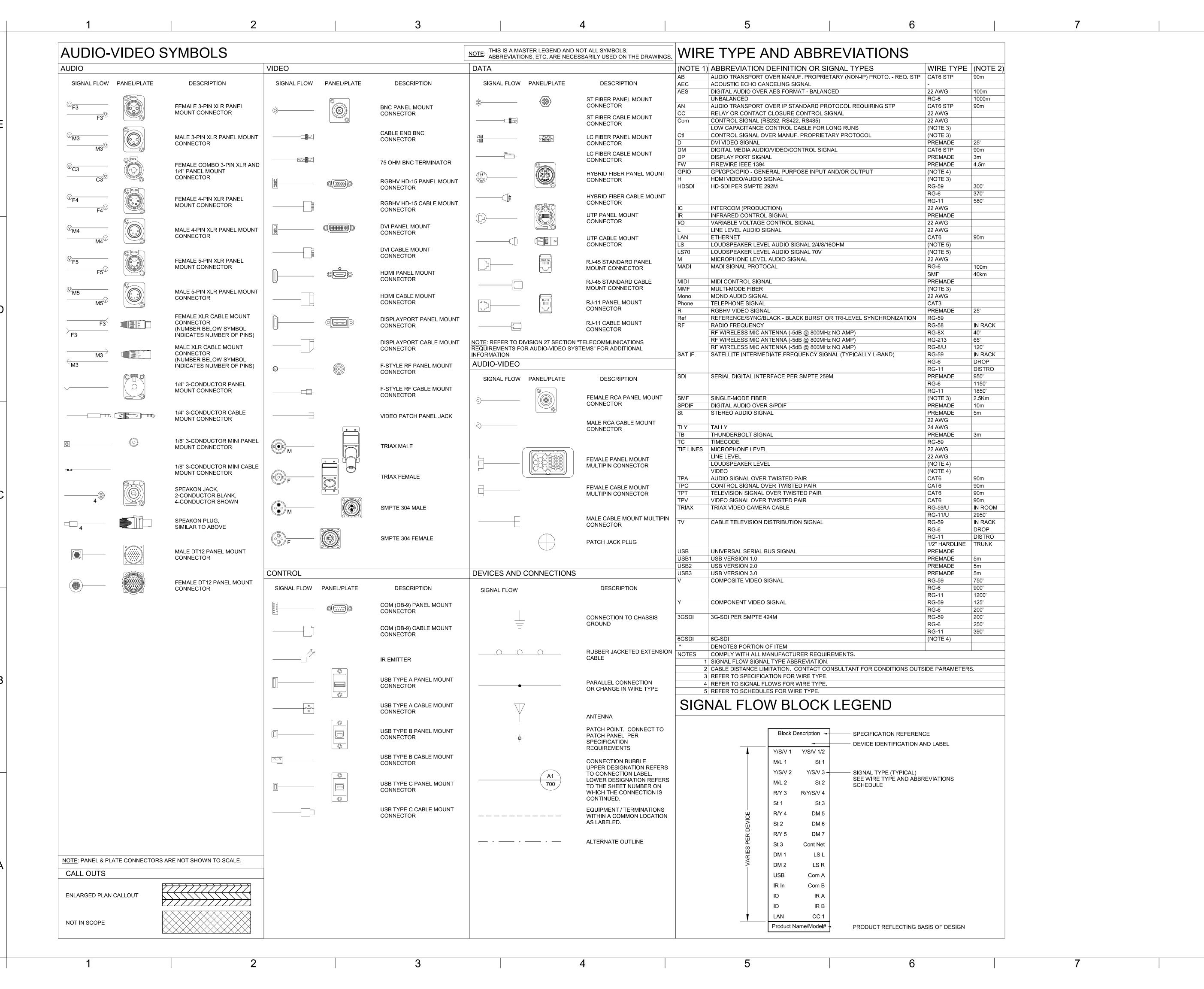
MINIMIZE DAMAGE FROM TEMPORARY RIGGING ACTIVITIES ASSOCIATED

BALLASTS, DUCTS, RIGGING, AND SHARP EDGES, CABLE COLOR SHALL

MATCH SURROUNDING ELEMENTS.

WITH SPECIAL EVENT SUPPORT, AVOID ROUTING CIRCUITS IN AREAS PRONE TO THIS USE, I.E. BOTTOM CHORDS OF TRUSSES. AVOID CONTACT OR

CONFLICT WITH OTHER BUILDING ELEMENTS SUCH AS LIGHTING FIXTURES &





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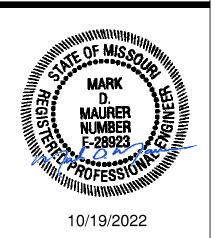
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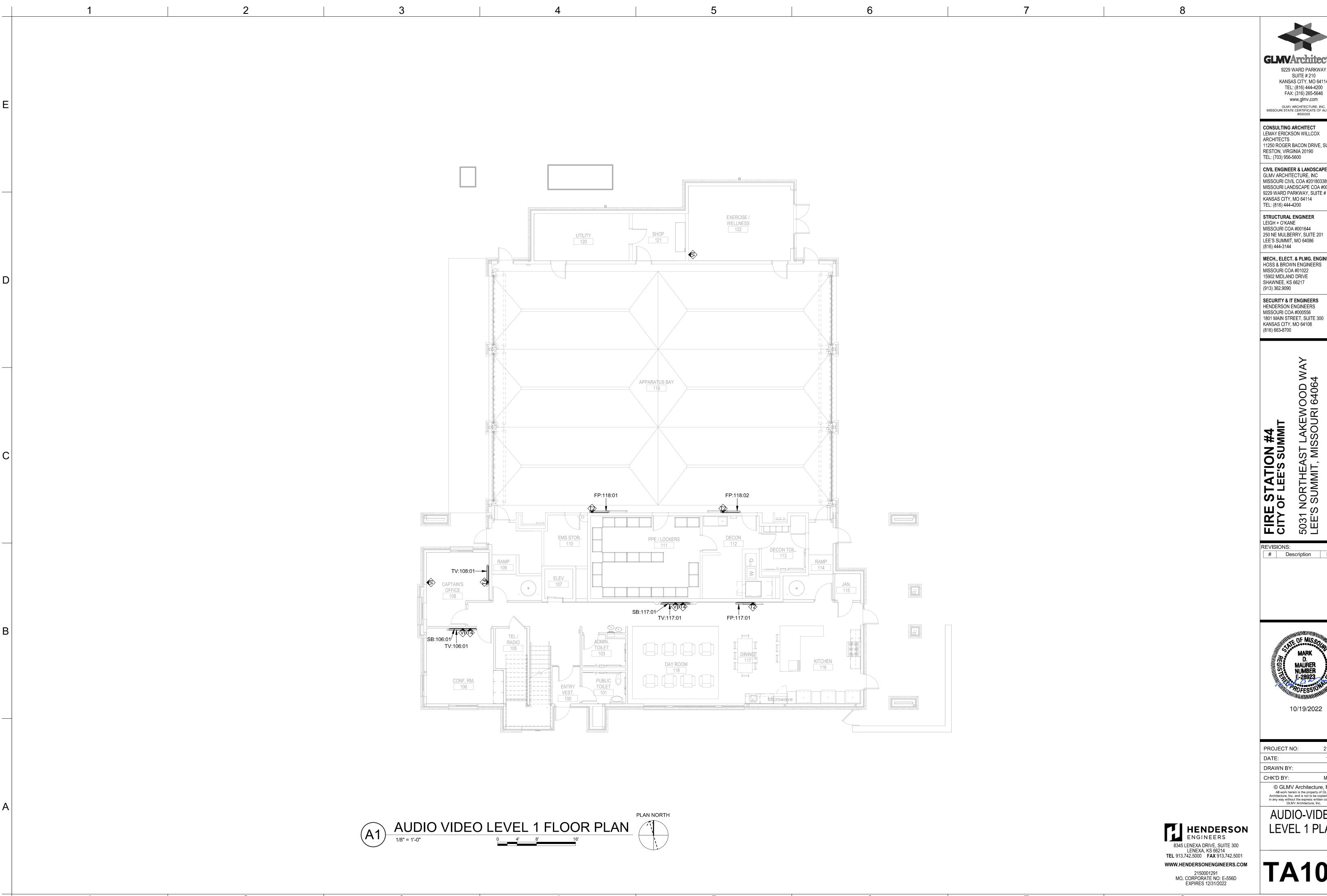
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FAX: (316) 265-5646 www.glmv.com GLMV ARCHITECTURE, INC. MISSOURI STATE CERTIFICATE OF AUTHORITY #000305

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11250 ROGER BACON DRIVE, SUITE 16 RESTON, VIRGINIA 20190 TEL: (703) 956-5600

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GLMV ARCHITECTURE, INC
MISSOURI CIVIL COA #2018033898
MISSOURI LANDSCAPE COA #0000008 9229 WARD PARKWAY, SUITE # 210 KANSAS CITY, MO 64114 TEL: (816) 444-4200

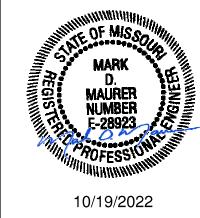
STRUCTURAL ENGINEER LEIGH + O'KANE MISSOURI COA #001644 250 NE MULBERRY, SUITE 201 LEE'S SUMMIT, MO 64086 (816) 444-3144

MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022 15902 MIDLAND DRIVE SHAWNEE, KS 66217

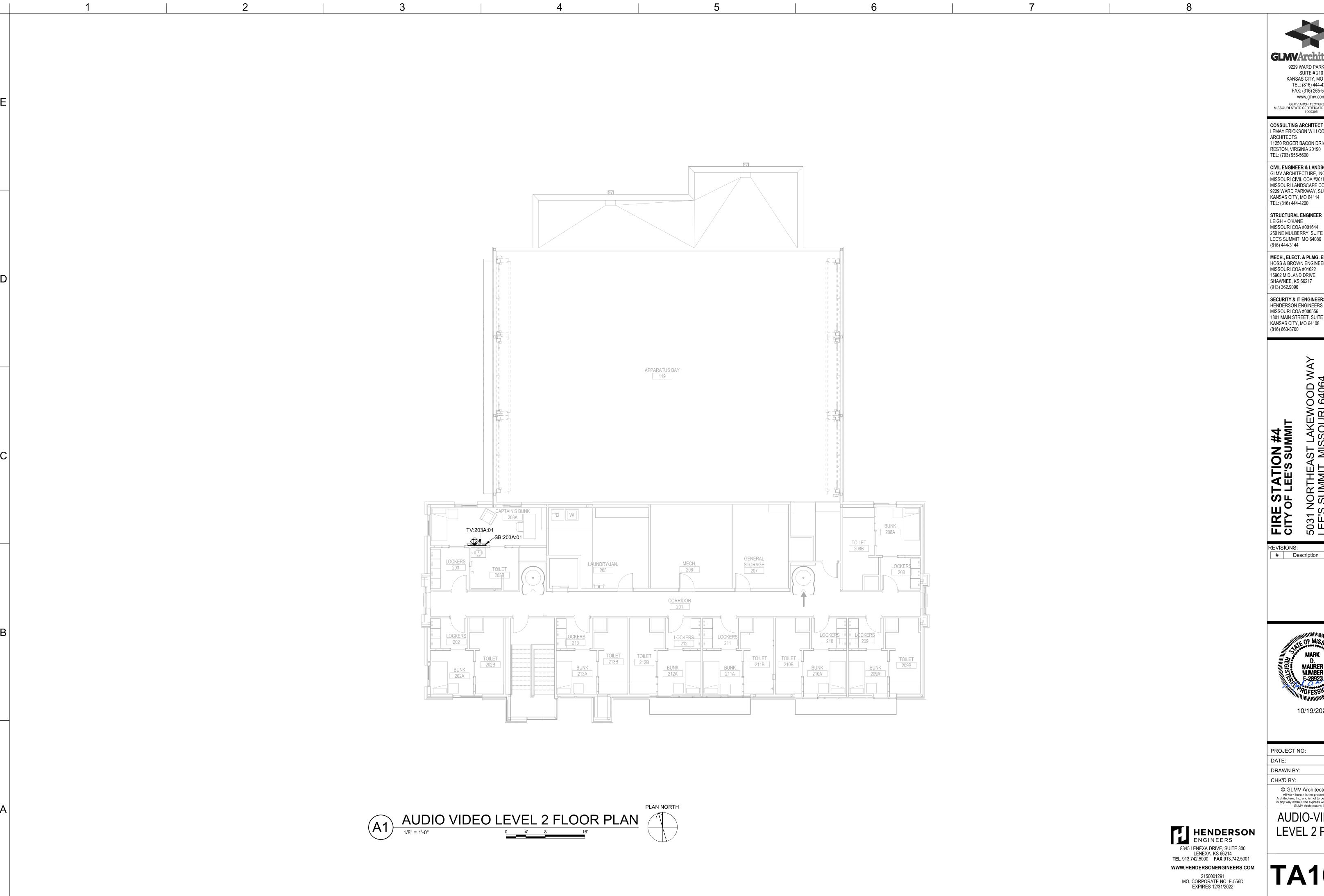
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HENDERSON ENGINEERS
MISSOURI COA #000556 1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108 (816) 663-8700

5031 NORTHI LEE'S SUMMI

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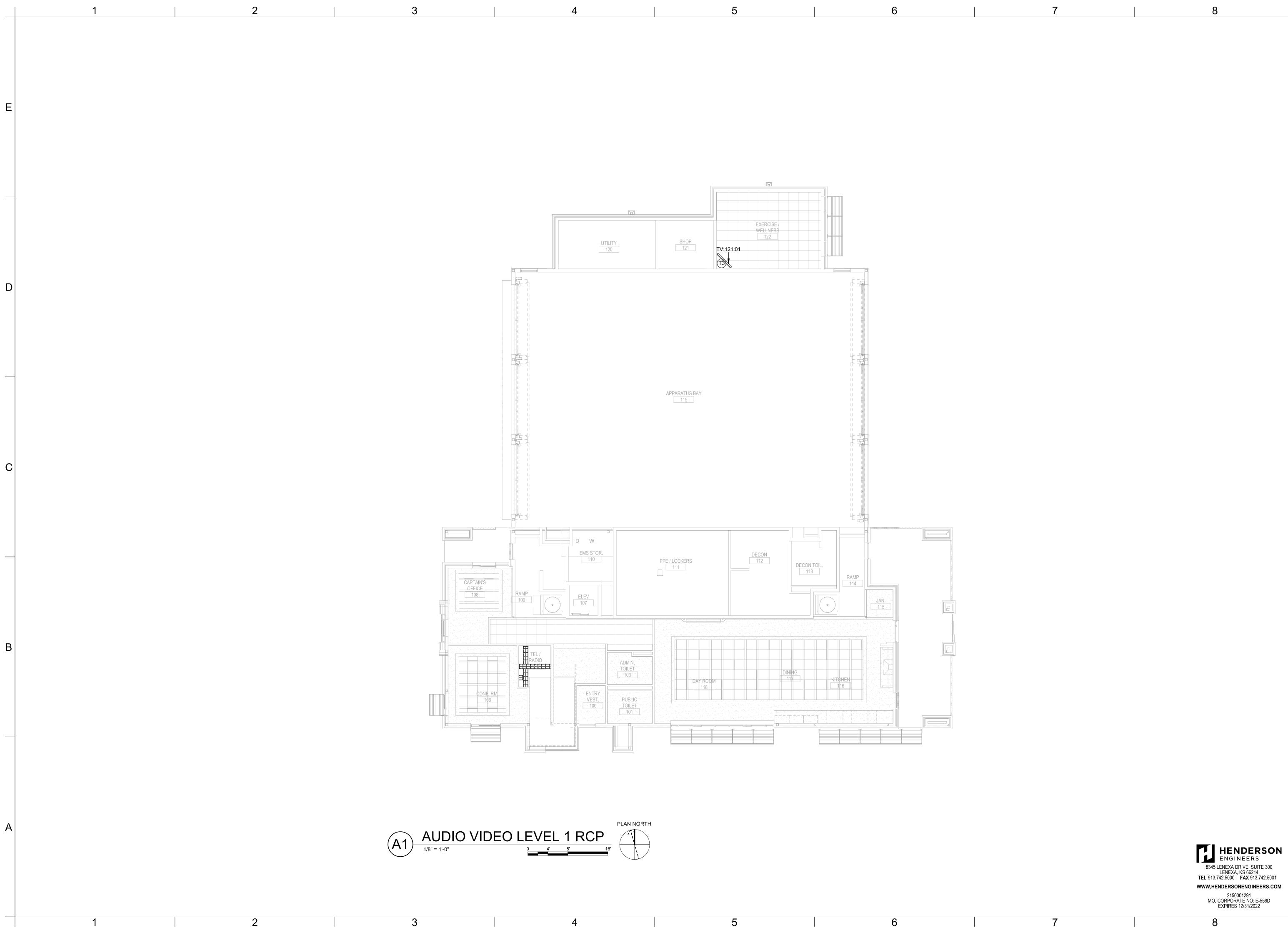
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AUDIO-VIDEO

LEVEL 2 PLAN



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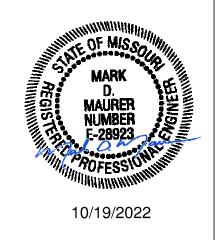
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MISSOURI COA #000556
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KANSAS CITY, MO 64108
(816) 663-8700

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD W,
LEE'S SUMMIT, MISSOURI 64064

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	DATE:	10.19.2022
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**TA201** 

FLUSH

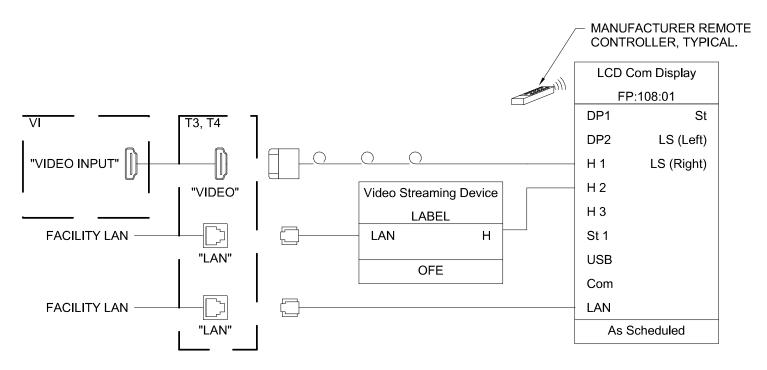
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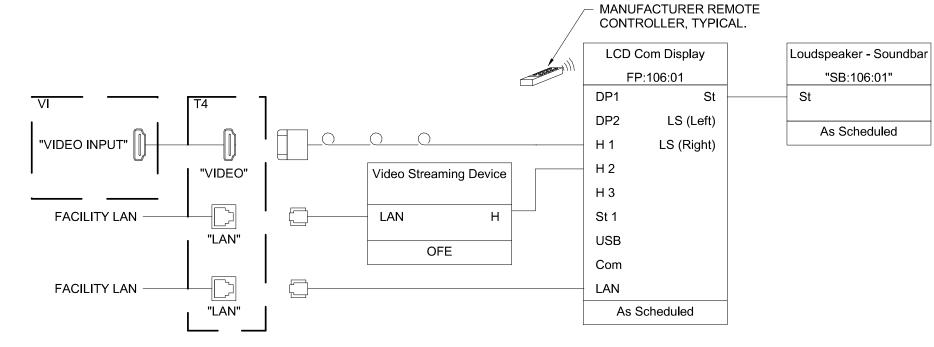
AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE										
	DISPLAY PROPERTIES				MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY		
15	ODEO MAME	D.O.D. MANUE	D O D MODEL	INSTALL HEIGHT AFF. (CENTER OF			INIOTALLED DV		NOTEO	
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES	
FP:117:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING ADA	CONTRACTOR	CONTRACTOR	OWNER		
FP:118:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
FP:118:02	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:106:01	LCD COMM DISPLAY - 2160/75	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:108:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:117:01	LCD COMM DISPLAY - 2160/75	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING ADA	CONTRACTOR	CONTRACTOR	OWNER		
TV:121:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	102"	CEILING - POLE	CONTRACTOR	CONTRACTOR	OWNER		
TV:203A:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		

AUDIO-VIDEO LOUDSPEAKER SCHEDULE												
		LOUDSPEAKER PROPERTIES	3		LOUDSPEAKER M	OUNTING	ORIEN	ITATION	1	ENCLOSU	IRE/HORN	
			IMPEDANCE	70V TAP	MOUNTING					ROLL	ROTATE	
ID	SPEC NAME	B.O.D. MANUF. B.O.D. MODEL	(OHM)	(WATTS)	CONDITION	HEIGHT	YAW PI	TCH   F	ROLL	ENCL. 90	HORN 90	NOTES

2-GANG/1-GANG | RACO | 260 W/ 843 | 18"

SB:106:01	SB 8 4x2 - SP	JBL	PSB-1	8	-	SURFACE	38"	0.00°	0.00°	0.00°	No	No	
SB:117:01	SB 8 4x2 - SP	JBL	PSB-1	8	-	SURFACE	38"	0.00°	0.00°	0.00°	No	No	
SB:203A:01	SB 8 4x2 - SP	JBL	PSB-1	8	-	SURFACE	44"	0.00°	0.00°	0.00°	No	No	



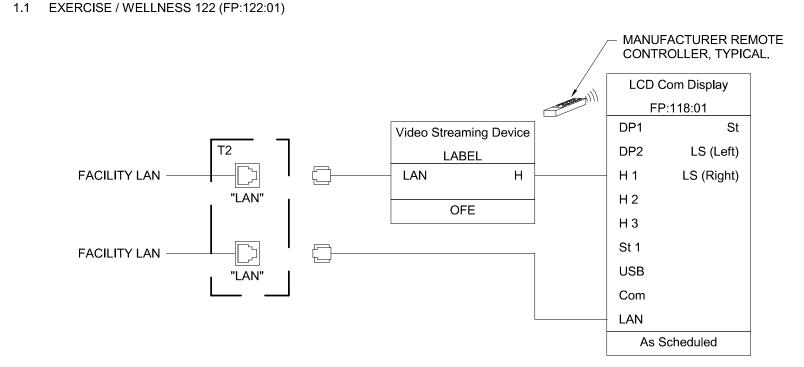


1.25" C ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM

CAPTAIN'S OFFICE 108 DISPLAY WITH LOCAL HDMI, FP:108:01 SHOWN **B1** 

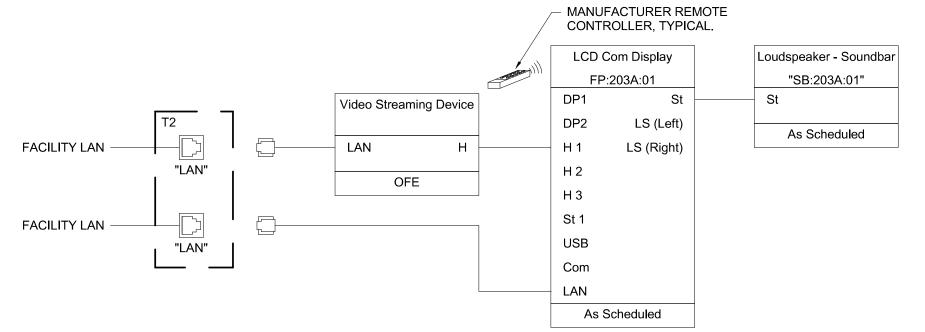
> 1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:

VI ASSORTED CONNECTION WALL BOX



SINGLE DISPLAY WITH LOCAL HDMI, TYPICAL TRAINING/SMALL CONFERENCE ROOM 106 SHOWN

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS: 1.1 DAY ROOM 117



APPARATUS BAY 118 DISPLAY, TYPICAL FP:118:01 SHOWN

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS: 1.1 APPARATUS BAY 118 (FP:118:02)

1.2 DINNING 117 (FP:117:01)

CAPTAIN'S BUNK 203 DISPLAY

HENDERSON ENGINEERS 8345 LENEXA DRIVE, SUITE 300 LENEXA, KS 66214 **TEL** 913.742.5000 **FAX** 913.742.5001 WWW.HENDERSONENGINEERS.COM MO. CORPORATE NO: E-556D EXPIRES 12/31/2022

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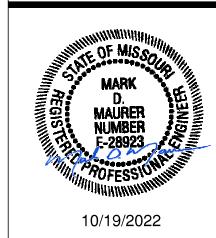
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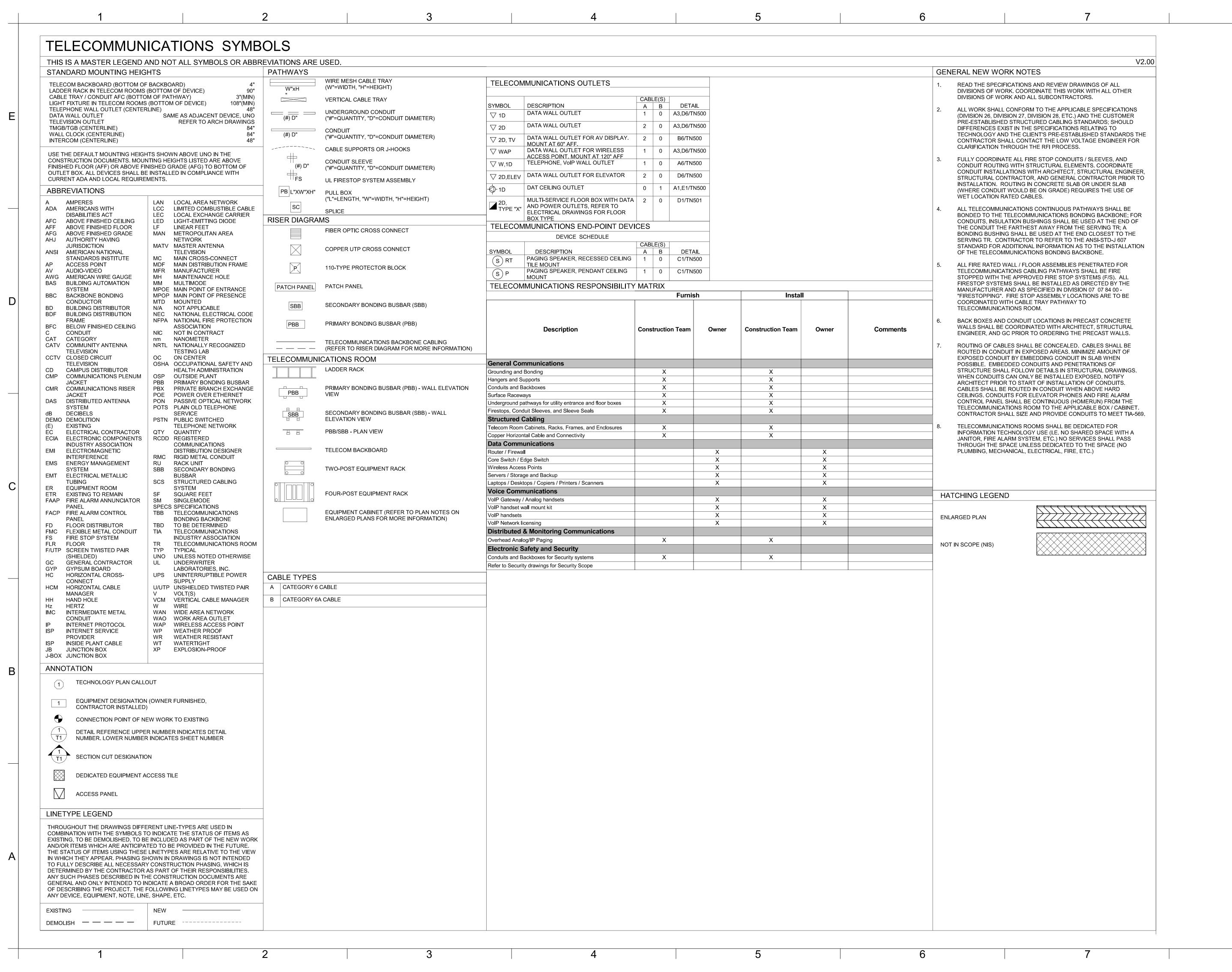
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CHK'D BY:	M.MAURER					
DRAWN BY:	J.ROSE					
DATE:	10.19.2022					
PROJECT NO:	2150001291					

SCHEDULES & SIGNAL FLOWS





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KANSAS CITY, MO 64108
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EAST LAKEWOOD WAY IT, MISSOURI 64064

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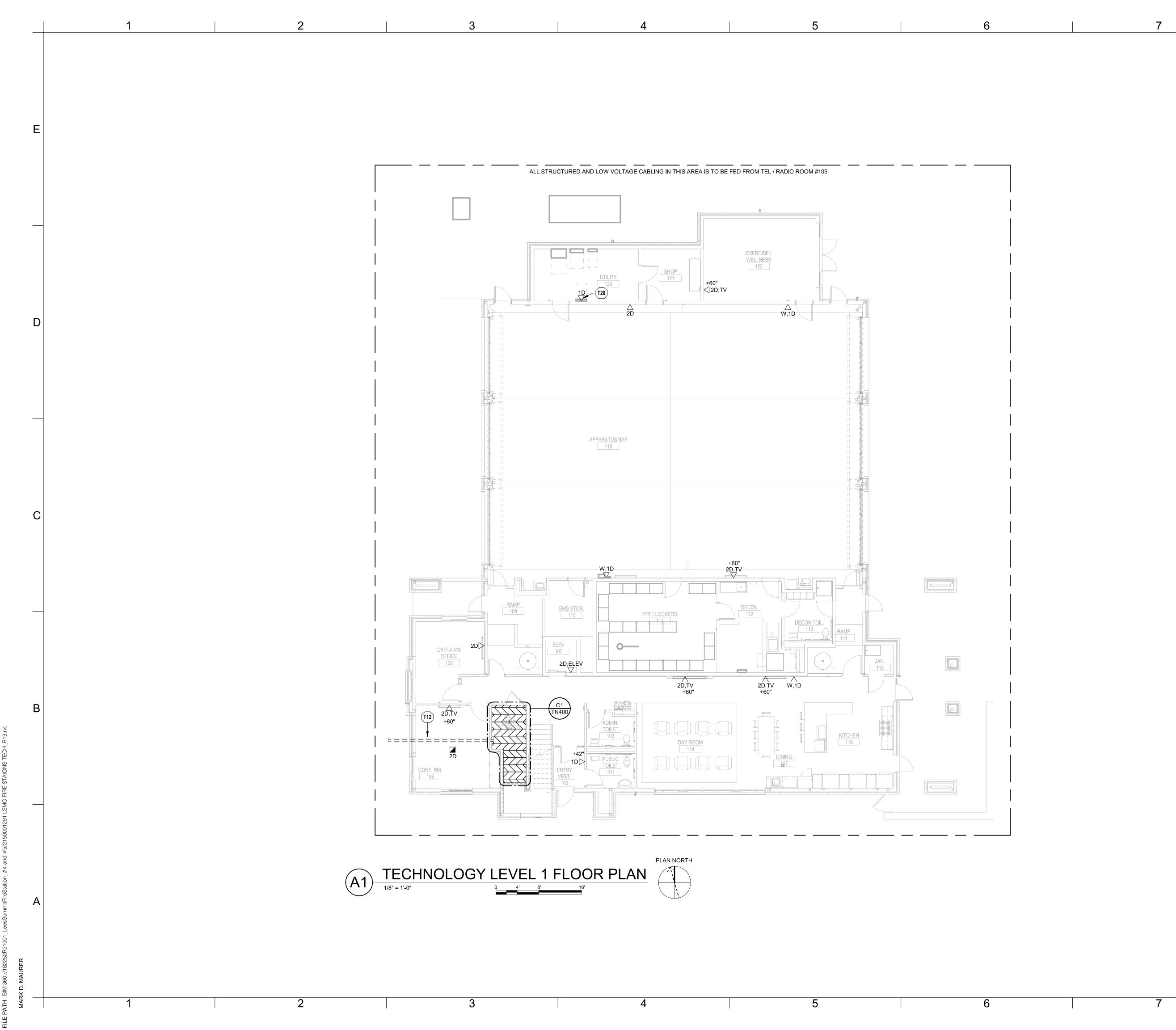


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CHK'D BY:	M.MAURE				
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LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM

MO. CORPORATE NO: E-556D EXPIRES 12/31/2022 **TN000** 





T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PULL STRING. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

T20 PROVIDE DATA OUTLET FOR LIGHTING CONTROL PANEL. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH ELECTRICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.

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SUITE # 210

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LEE'S SUMMIT, MO 64086 (816) 444-3144 MECH., ELECT. & PLMG. ENGINEERS HOSS & BROWN ENGINEERS MISSOURI COA #01022

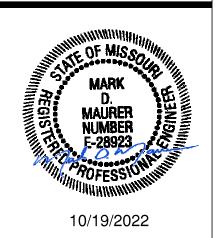
15902 MIDLAND DRIVE

SHAWNEE, KS 66217 (913) 362.9090 SECURITY & IT ENGINEERS HENDERSON ENGINEERS MISSOURI COA #000556

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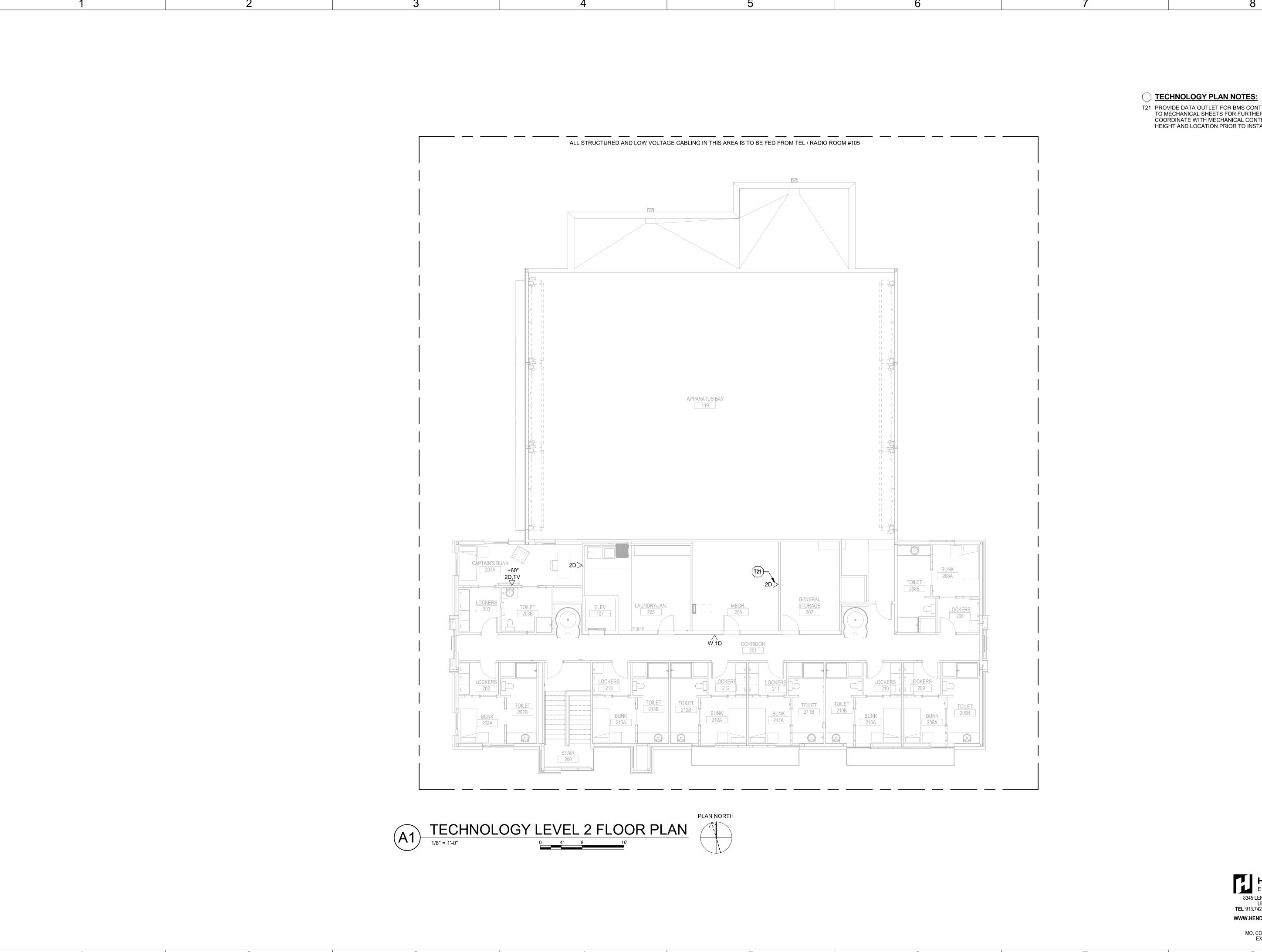
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T21 PROVIDE DATA OUTLET FOR BMS CONTROL PANEL. REFER TO MECHANICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.

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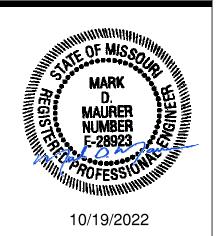
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CITY OF LEE'S SUMMIT REVISIONS: # Description Date

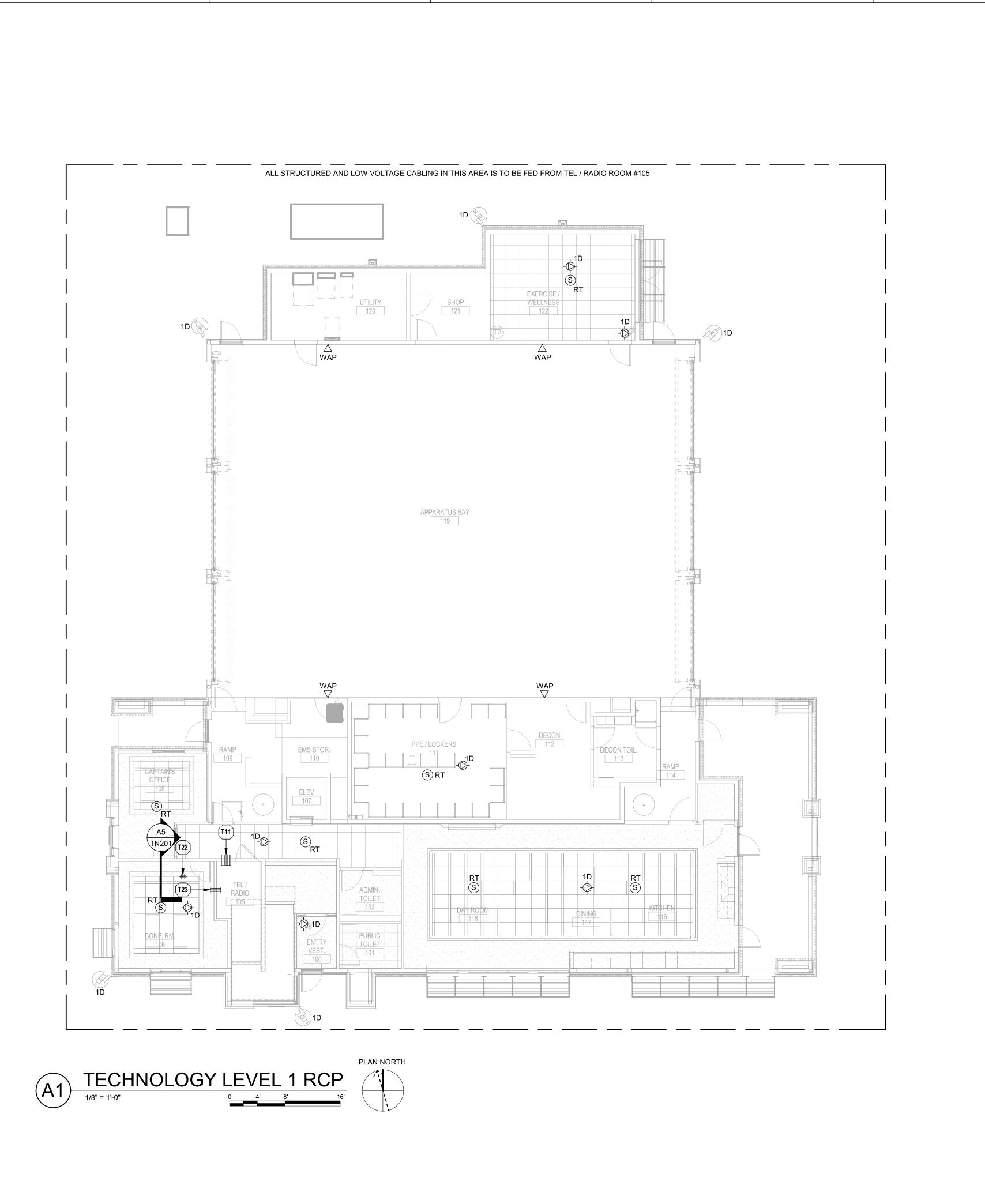


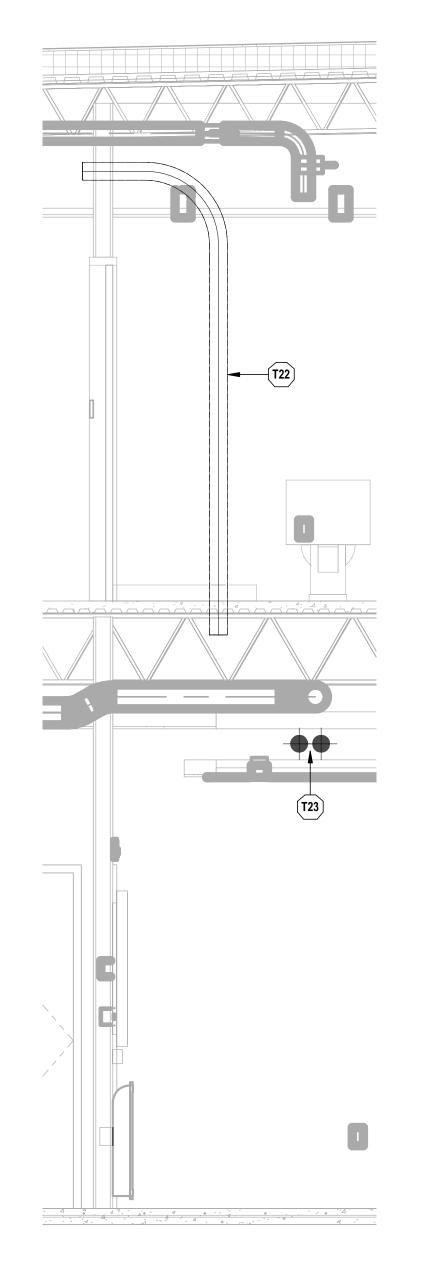
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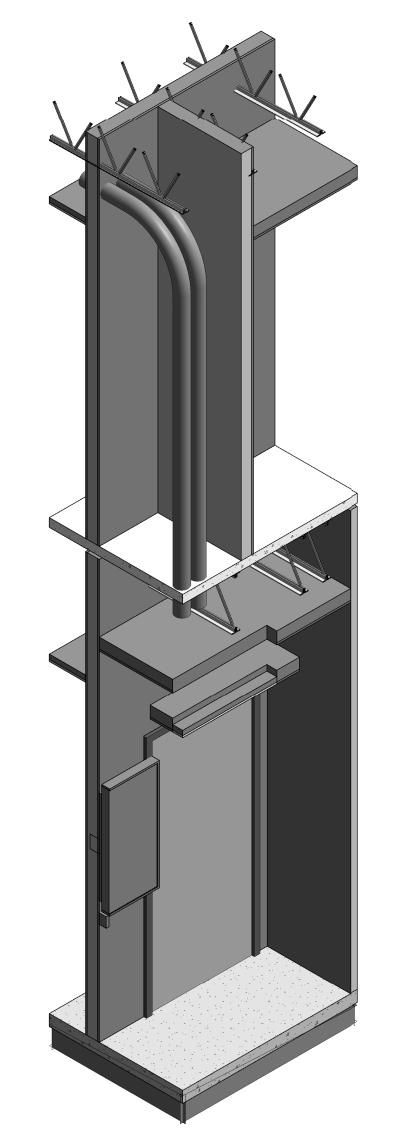
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LENEXA, KS 66214
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SUITE # 210 KANSAS CITY, MO 64114 TEL: (816) 444-4200 FAX: (316) 265-5646

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T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL

CABLING. T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO

T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HÒRIZONTAL CABLING.

TECHNOLOGY PLAN NOTES:

GLMV ARCHITECTURE, INC. MISSOURI STATE CERTIFICATE OF AUTHORITY #000305 CONSULTING ARCHITECT LEMAY ERICKSON WILLCOX

ARCHITECTS 11250 ROGER BACON DRIVE, SUITE 16 RESTON, VIRGINIA 20190 TEL: (703) 956-5600

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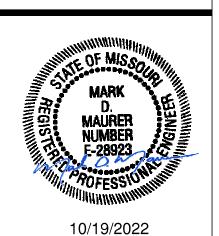
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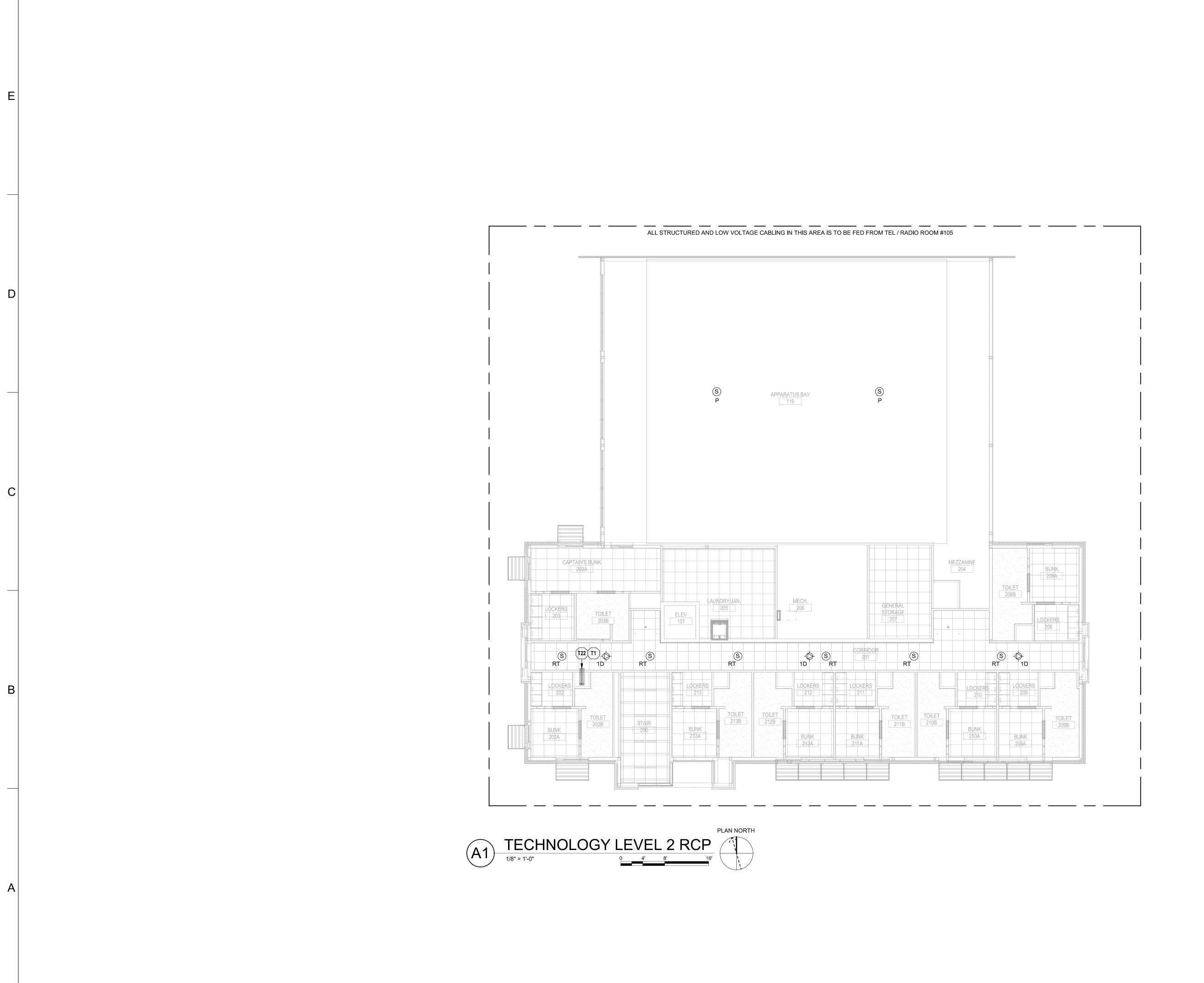
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TECHNOLOGY LEVEL 1 RCP





T1 CONTRACTOR TO PROVIDE AN ADDITIONAL 30 DATA CABLES AND COIL UP ABOVE CEILING FOR FUTURE TERMINATION BY THE CITY. PROVIDE ENOUGH SLACK TO REACH THE FURTHEST POINT WITHIN EACH ROOM SPECIFICALLY FURTHEST POINT OF APPARATUS BAY. CABLES ARE TO BE ROUTED UP THE CHASE NEXT TO THE STAIRWELL INTO ACCESSIBLE CEILING.

T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.



9229 WARD PARKWAY SUITE # 210

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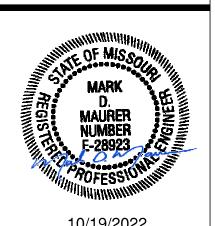
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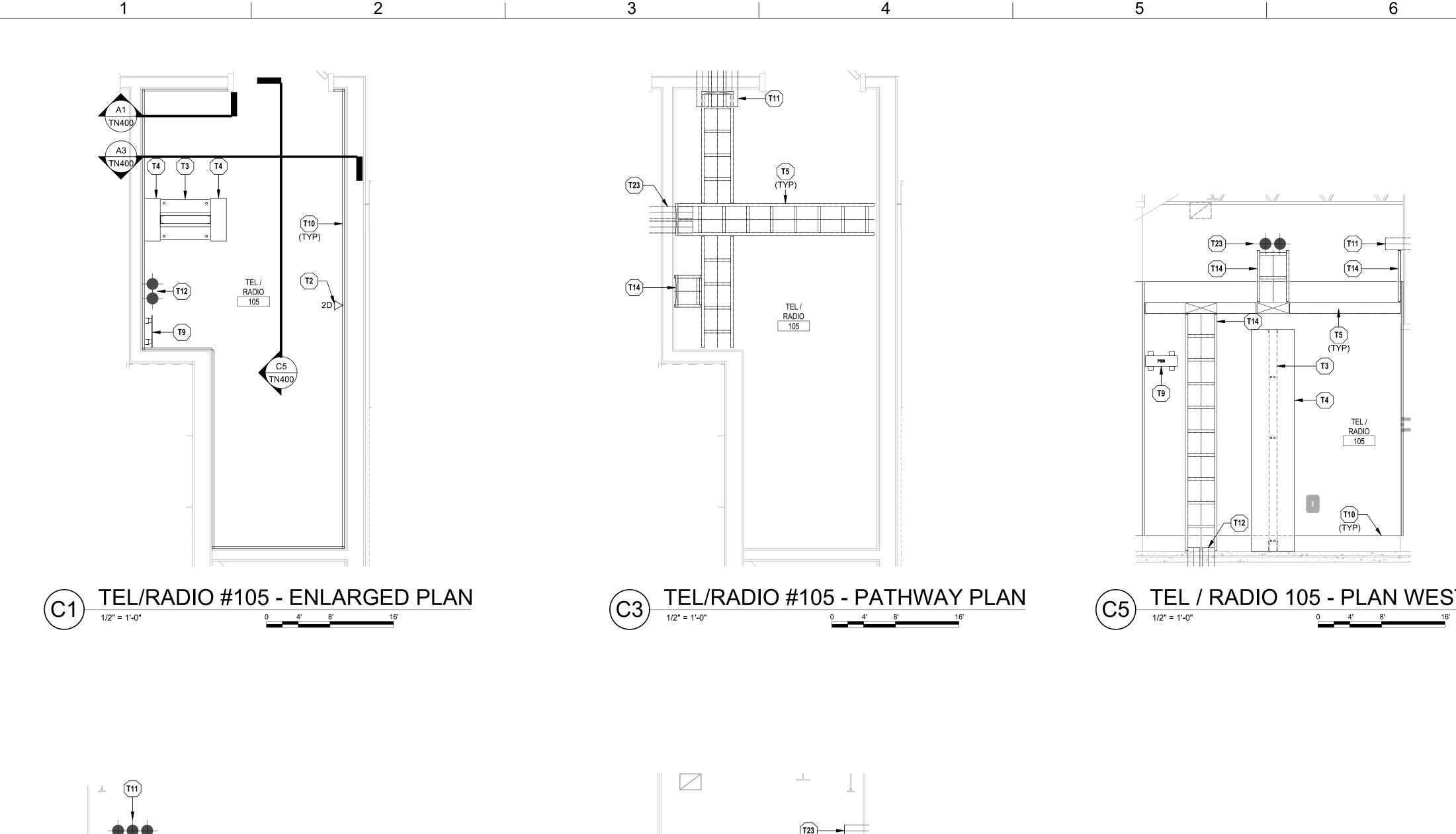


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DATE:	10.19.2022		
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TECHNOLOGY LEVEL 2 RCP

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T19

TOPTICAL FIBER PANEL |
HCM

PORT PATO

RADIO 105

(T4)— (TYP)

TEL / RADIO 105 - PLAN WEST ELEVATION

TECHNOLOGY PLAN NOTES:

T3 PROVIDE TWO-POST FLOOR RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.

T4 PROVIDE VERTICAL CABLE MANAGEMENT. REFER TO

COATED IN UL 723 CLASSIFIED FIRE RETARDANT LOW TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.

T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL

CABLING.

T14 PROVIDE 12" WIDE VERTICAL LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR

T15 PROVIDE OPTICAL FIBER ENCLOSURE, PANELS AND MODULES TO PROVIDE COMPLETE TERMINATION OF OPTICAL FIBER CABLES FOR A FULLY-FUNCTIONING SYSTEM. REFER TO DIVISION 27 SPECIFICATIONS FOR

T16 PROVIDE PATCH PANEL FOR HORIZONTAL CABLING. PROVIDE APPROPRIATE QUANTITY TO SUPPORT DEVICES SERVED FROM COMM ROOM PLUS SPARES AS NOTED IN SPECIFICATIONS. REFER TO DIVISION 27 SPECIFICATIONS

T18 OWNER PROVIDED NETWORK SWITCH.

T19 PROVIDE 6" RUNWAY EXTENSION KIT AND A 3" TOP PLATE AT EACH EQUIPMENT RACK. REFER TO DIVISION 27

T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND

T2 PROVIDE DATA OUTLET FOR SECURITY SYSTEM. REFER TO SECURITY SHEETS FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATION WITH SECURITY PROVIDER.

DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION. T5 PROVIDE 12" WIDE LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.

T9 PROVIDE TELECOMMUNICATIONS PRIMARY BUS BAR (PBB). REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.

T10 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C 3/4" THICK FIRE RATED PLYWOOD BACKBOARDS DOUBLE GLOSS WHITE PAINT. THE "A" SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. PLYWOOD SHALL BE PAINTED PRIOR TO INSTALLATION OF EQUIPMENT. REFER

T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PULL STRING. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FURTHER INFORMATION.

FURTHER INFORMATION.

FOR FURTHER INFORMATION.

T17 PROVIDE HORIZONTAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.

SPECIFICATIONS FOR FURTHER INFORMATION. FLOOR HORIZONTAL CABLING.

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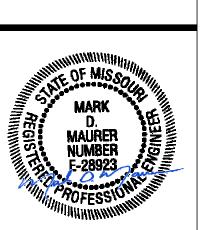
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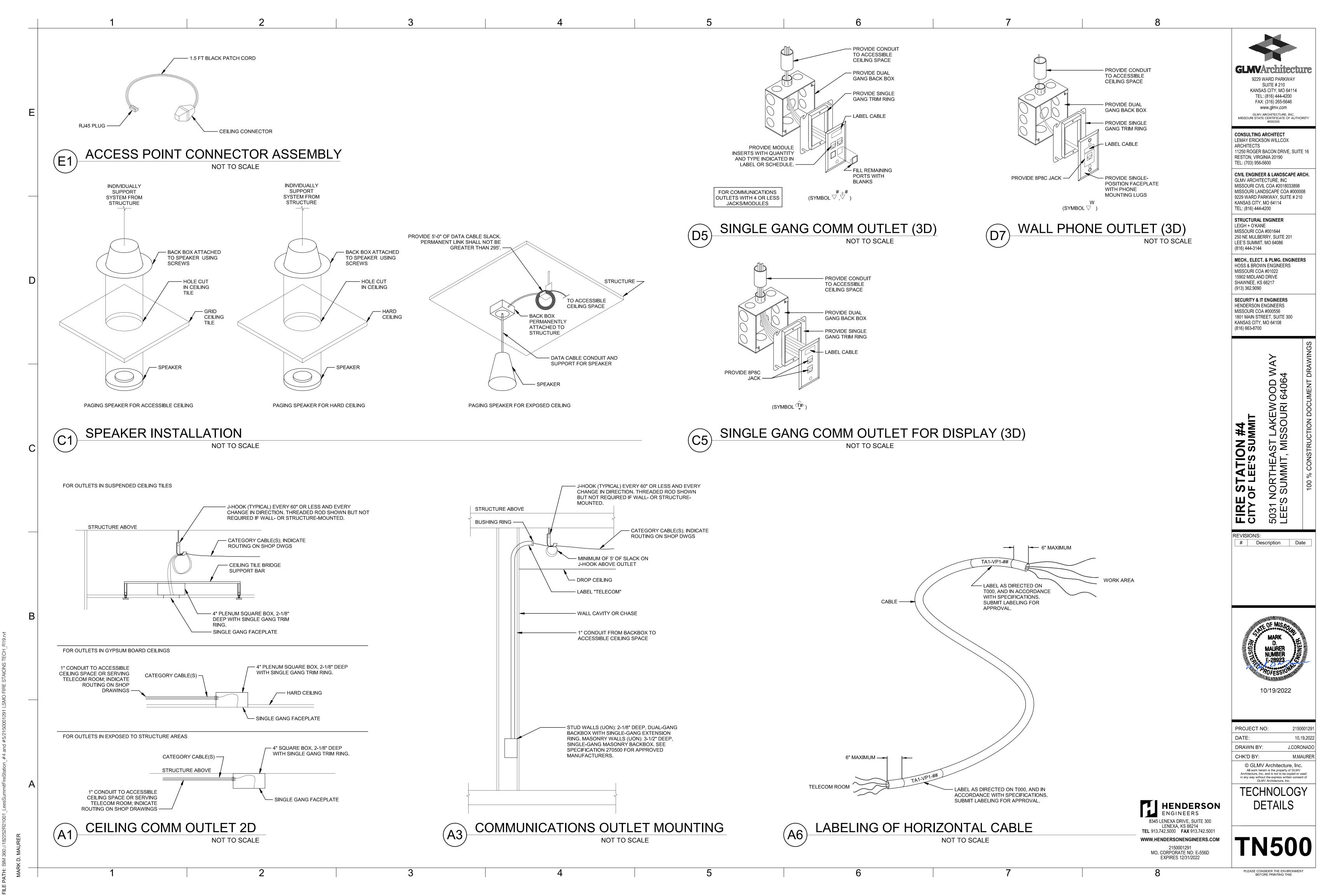
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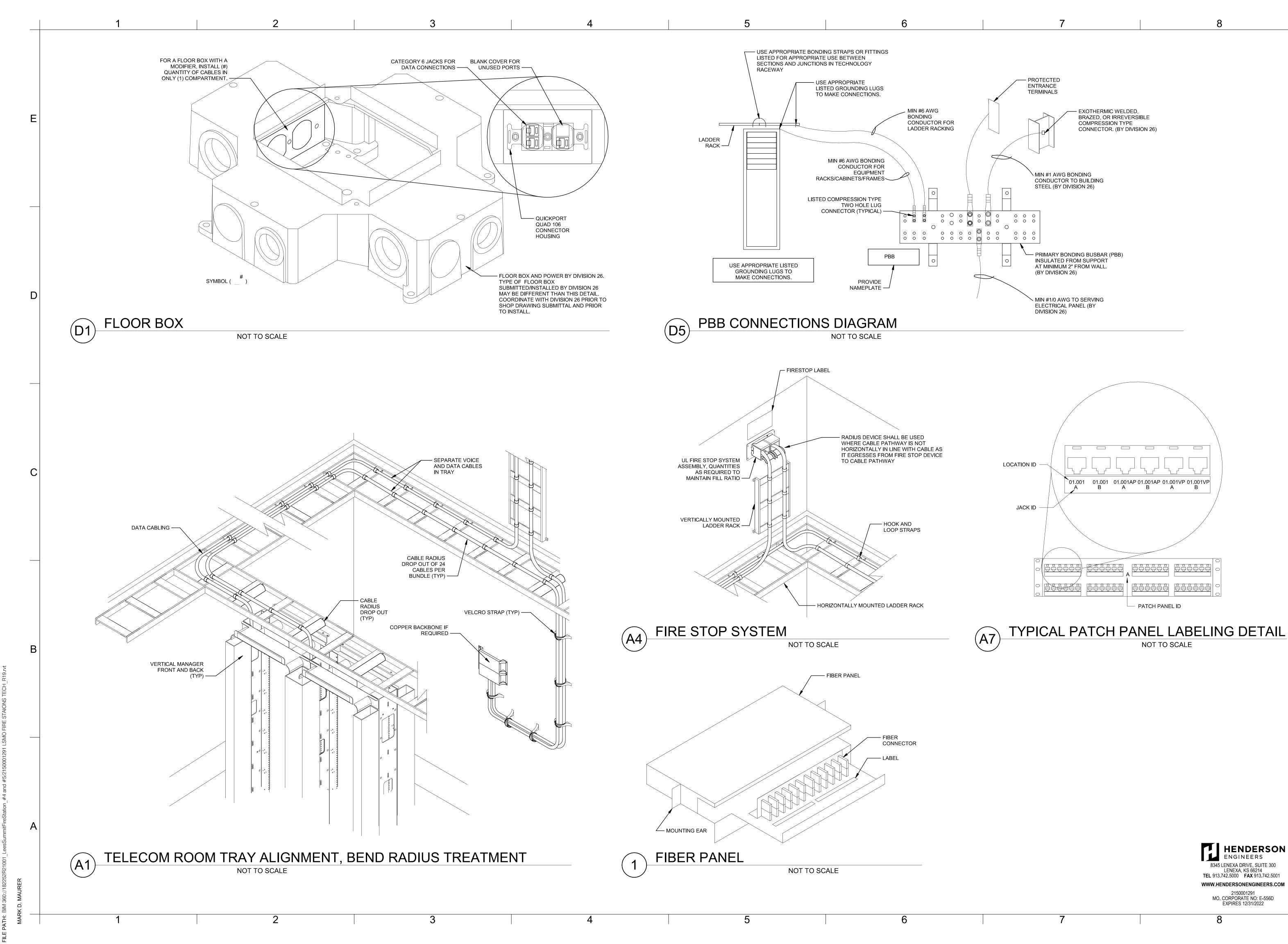
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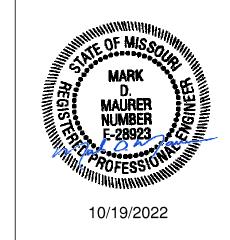
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TECHNOLOGY DETAILS

**TN501** 

HIS IS A MASTER LEGEND	MBOLS  AND NOT ALL SYMBOLS OR ABBR	EVIATIONS ARE USED.								V2.1
ANDARD MOUNTING HEIG	SHTS	SECURITY SYMBOLS	CAMERA TYPE SCH	IEDULE		WAA OED 0175				
ITERCOM (OPERABLE PART) ARD READER (CENTER OR TOP W ARTS EXIST)	48" HERE OPERABLE 48"	AREA OF REFUGE CALL BOX	TYPE FACTOR	DESCRIPTION	LOCATIONS	IMAGER SIZE RESOLUTION	POWER	MODELS	COLOR	COMMENTS
MERGENCY LOCK RELEASE MERGENCY PHONE (OPERABLE PA	48" ARTS) 48"	CR PROXIMITY CARD READER  CW CLIENT WORKSTATION WHERE X = NUMBER OF MONITORS		VANDAL DOME CAMERA	INDOOR/ OUTDOOR	5MP	POE	AVIGILON H5A	WHITE	DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
ROVIDED. MOUNTING HEIGHTS LIS	WN ABOVE WHERE NO CALL-OUT IS TED ARE ABOVE FINISHED FLOOR (AFF)	X (AC) ACCESS CONTROL (SM) SECURITY MANAGEMENT	01	DOIVIL CAIVILINA	OOTBOOK					DEVICES FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE BACK
R ABOVE FINISHED GRADE (AFG). A OMPLIANCE WITH CURRENT ADA A	ALL DEVICES SHALL BE INSTALLED IN AND LOCAL REQUIREMENTS.	(TS) TOUCHSCREEN CONTROL (VS) VIDEO SURVEILLANCE	02	360 DEGREE MULTISENSOR CAMERA	OUTDOOR	MULTI- SENSOR	HPOE	AVIGILON 360°	WHITE	BOX, CABLING, AND ALL PATHWAY. DEVICES, MOUNTING HARDWARE, AND CONFIGURATION BY ADS.
BBREVIATIONS	IO MA LICEVED A DE L'UDEO MOLIOE	DAD DOOR ANNUCATOR	CARD READER TYP	PE SCHEDULE						
AMPERS P ACCESS CONTROL PANEL A AMERICANS WITH	KVM KEYBOARD VIDEO MOUSE SWITCH LAN LOCAL AREA NETWORK	DB DOOR BELL (PB) PUSH BUTTON	TYPE FACTOR	TECHNOLOGY	LOCATIONS	READ RANGE	POWER	MODELS	COLOR	COMMENTS
DISABILITIES ACT C ABOVE FINISHED CEILING	LED LIGHT-EMITTING DIODE LF LINEAR FEET	(CH) CHIME  OM DOOR POSITION SWITCH ONLY  OFF ARCHITECTURAL POOR HARDWARE SCHEDULE		RFID	INDOOR/		PANEL	HID SIGNO 40	BLACK	
F ABOVE FINISHED FLOOR G ABOVE FINISHED GRADE IJ AUTHORITY HAVING	MBS MAINTENANCE BYPASS SWITCH MDF MAIN DISTRIBUTION FRAME	SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	01		OUTDOOR					
JURISDICTION ISI AMERICAN NATIONAL	MFR MANUFACTURER MH MAINTENANCE HOLE	DOOR POSITION SWITCH AND LATCHBOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	02	RFID	INDOOR/ OUTDOOR		PANEL	HID SIGNO 20	BLACK	
STANDARDS INSTITUTE AUDIO-VIDEO //G AMERICAN WIRE GAUGE	MM MULTIMODE MPOE MAIN POINT OF ENTRANCE MPOP MAIN POINT OF PRESENCE	ELECTRIFIED LOCKING DEVICE, REQUEST TO EXIT, DOOR POSITION SWITCH, AND LATCH BOLT MONITOR	INTERCOM TYPE S	CHEDULE						
S BUILDING AUTOMATION SYSTEM	MTD MOUNTED  N/A NOT APPLICABLE	SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	FORM TYPE FACTOR	DESCRIPTION	LOCATIONS	SPEAKER	POWER	MODELS	COLOR	COMMENTS
BUILDING DISTRIBUTOR BUILDING DISTRIBUTION	NEC NATIONAL ELECTRICAL CODE NFPA NATIONAL FIRE PROTECTION	EO ELECTRIFIED LOOKING DEVICE SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE		P ADDRESSABLE VIDEO DOOR	INDOOR/	HANDS-FREE	POE		BLACK	
FRAME C BELOW FINISHED CEILING BIOMETRIC READER	ASSOCATION NIC NOT IN CONTRACT nm NANOMETER	EP EMERGENCY PHONE	01	STATION	OUTDOOR					
CONDUIT AT CATEGORY	NRTL NATIONALLY RECOGNIZED TESTING LAB	GB GLASS BREAK DETECTOR  (IC) INTERCOM	02   II	P ADDRESSABLE VIDEO DOOR	INDOOR	HANDS-FREE	POE+		ALUMINUM	
C CENTRAL CONTROL CTV CLOSED CIRCUIT TELEVISION	NVR NETWORK VIDEO RECORDER OC ON CENTER	(CR) WITH CARD READER (DS) DOOR STATION		STATION					& BLACK	
CAMPUS DISTRIBUTOR  MP COMMUNICATIONS PLENUM	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	(RS) RECEIVING (MASTER) STATION (VS) VIDEO STATION								
JACKET MR COMMUNICATIONS RISER	OSP OUTSIDE PLANT POE POWER OVER ETHERNET	IP INMATE PHONE								
JACKET ) REMOTE DEVICE S DISTRIBUTED ANTENNA	PON PASSIVE OPTICAL NETWORK QTY QUANTITY (R) RELOCATED EXISTING DEVICE	(ID) INTRUSION DETECTION SYSTEM								
SYSTEM DECIBELS	(RÉ) REMOVE EXISTING DEVICE AND INSTALL AT ANOTHER	(AC) ACCESS CONTROL  (LC) LIGHTING CONTROL RELAYS								
S DOOR CONTROL SYSTEM MO DEMOLITION P DIGITAL SIGNAL	LOCATION, SEE (R) RMC RIGID METAL CONDUIT RMS REMOTE MONITORING	MD MOTION DETECTOR								
PROCESSOR R DIGITAL VIDEO RECORDER	STATION RU RACK UNIT	PANIC ALARM THREE-COLOR INDICATOR LIGHT								
EXISTING DEVICE ELECTRICAL CONTRACTOR IA ELECTRONIC OMPONENTS	SCS STRUCTURED CABLING SYSTEM SF SQUARE FEET	PB PANIC/DURESS BUTTON								
INDUSTRY ASSOCIATION  I ELECTROMAGNETIC	SM SINGLEMODE SP SCRAMBLE PAD	RE REQUEST-TO-EXIT PUSH PAD REMOTE UNLOCK/OPEN BUTTON								
INTERFERENCE IS ENERGY MANAGEMENT	TBD TO BE DETERMINED TIA TELECOMMUNICATIONS	RO REMOTE UNLOCK/OPEN BUTTON  ML MICROPHONE STATUS LIGHT, WALL MOUNT								
SYSTEM IT ELECTRICAL METALLIC TUBING	INDUSTRY ASSOCIATION TGB TELECOMMUNICATIONS GROUND BUS BAR	MP MICROPHONE								
R EQUIPMENT ROOM TR) EXISTING TO REMAIN	TMGB TELECOMMUNICATIONS MAIN	MS MICROPHONE MUTE ILLUMINATED SWITCH								
) DOOR FRAME MOUNTED DEVICE AP FIRE ALARM ANNUNCIATOR	GROUND BUS BAR TR TELECOMMUNICATIONS ROOM	S SPEAKER (DOOR BELL)								
PANEL  CP FIRE ALARM CONTROL	TYP TYPICAL UNO UNLESS NOTED OTHERWISE	SP PAGING SPEAKER  VM VAULT MONITOR								
PANEL  PLOOR DISTRIBUTOR	UL UNDERWRITER LABORATORIES, INC.	VM) VAULT MONITOR  WC) WATER CONTROL VALVE								
MC FLEXIBLE METAL CONDUIT  OR FIBER OPTIC RACK  FIRE STOP SYSTEM	UPS UNINTERRUPTIBLE POWER SUPPLY UPSDP UNINTERRUPTIBLE POWER	VALVE BY DIVISION 22, CONTROL BY DIVISION 28								
R FLOOR C GENERAL CONTRACTOR	SUPPLY DISTRIBUTION PANEL	WT WATCH TOUR								
T) GUARD TOUR /P GYPSUM BOARD I HAND HOLE	V VOLT(S) VCM VERTICAL CABLE MANAGER VMS VIDEO MANAGEMENT									
HERTZ C INTERMEDIATE METAL	SYSTEM WAO WORK AREA OUTLET									
CONDUIT S INTERCOM CONTROL	WP WEATHER PROOF WR WEATHER RESISTANT WT WATERTIGHT	SECURITY CAMERAS								
SYSTEM INTERNET PROTOCOL P INSIDE PLANT CABLE	XP EXPLOSION-PROOF	FIXED CAMERA (□) TWO IMAGER CAMERA  □□ PTZ CAMERA								
BOX JUNCTION BOX  ELECTRICALLY OPERATED		360 CAMERA FOUR IMAGER CAMERA								
BY KEY P KEY PAD		180 CAMERA								
	AL OPERATION IN LABELING SCHEME	MOUNTING TYPE SYMBOLS (APPLIES TO ANY SECURITY	-							
NNOTATION  1 SECURITY PLAN CALLOUT	-	DEVICE SYMBOL)  □ CEILING MOUNT								
1 SECURITY PLAN CALLOUT		H□ WALL MOUNT								
CONNECTION POINT OF N	EW WORK TO EXISTING	● POLE / BOLLARD MOUNT								
	ER NUMBER INDICATES DETAIL R INDICATES SHEET NUMBER	CORNER MOUNT								
		PENDANT MOUNT  WALL MOUNT PENDANT ARM								
SECTION CUT DESIGNATION	UN									
DEDICATED EQUIPMENT	ACCESS TILE	LABELING SCHEME SECURITY DEVICES (TYPICAL)								
ACCESS PANEL		A: DEVICE SYMBOL	1							
NETYPE LEGEND		XX: MODIFIER FOR SPECIAL OPERATION IF APPLICABLE								
	TO INDICATE THE STATUS OF ITEMS AS	YY: DEVICE TYPE								
XISTING, TO BE DEMOLISHED, TO I VORK AND/OR ITEMS WHICH ARE A	BE INCLUDED AS PART OF THE NEW INTICIPATED TO BE PROVIDED IN THE	SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE	)							
HE VIEW IN WHICH THEY APPEAR.	ING THESE LINETYPES ARE RELATIVE TO PHASING SHOWN IN DRAWINGS IS NOT NECESSARY CONSTRUCTION PHASING,	SECURITY CAMERAS (TYPICAL)	0.411 0::==							
VHICH IS DETERMINED BY THE COM RESPONSIBILITIES. ANY SUCH PHAS	NTRACTOR AS PART OF THEIR SES DESCRIBED IN THE CONSTRUCTION	C-XX XX: CAMERA NUMBER	CALL OUTS							
ORDER FOR THE SAKE OF DESCRIE	NLY INTENDED TO INDICATE A BROAD IING THE PROJECT. THE FOLLOWING DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,	AA: CAMERA TYPE (SEE CAMERA ##' AFF SCHEDULE ON THIS PAGE)	ENLARGED PLAN CALLO	рит						
ETC.		FOR WALL MOUNTED CAMERAS, HEIGHT ABOVE FINISHED FLOOR								
EXISTING — — — — — — — — — — — — — — — — — — —	NEW ————————————————————————————————————		NOT IN SCOPE							
		SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE	)							



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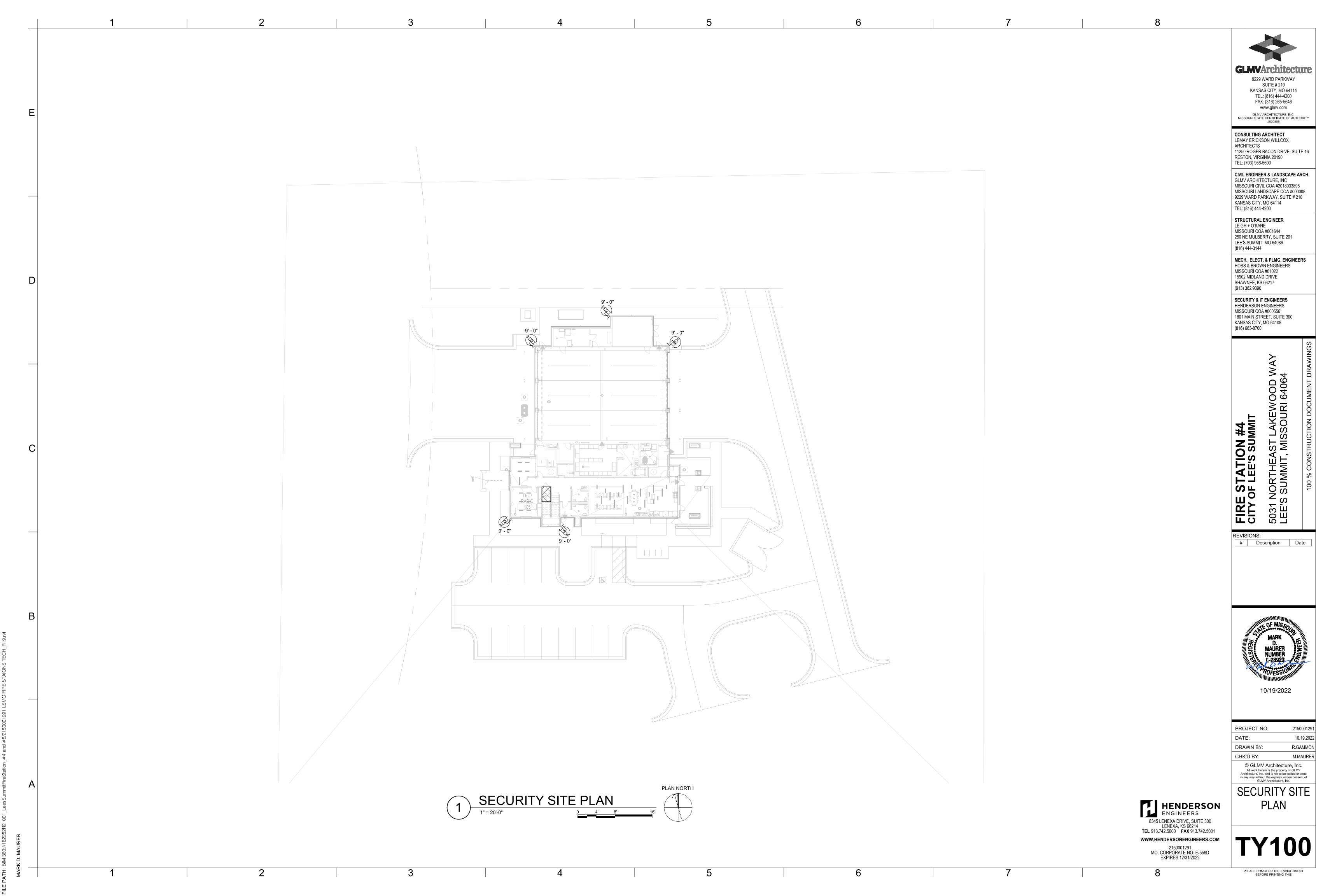
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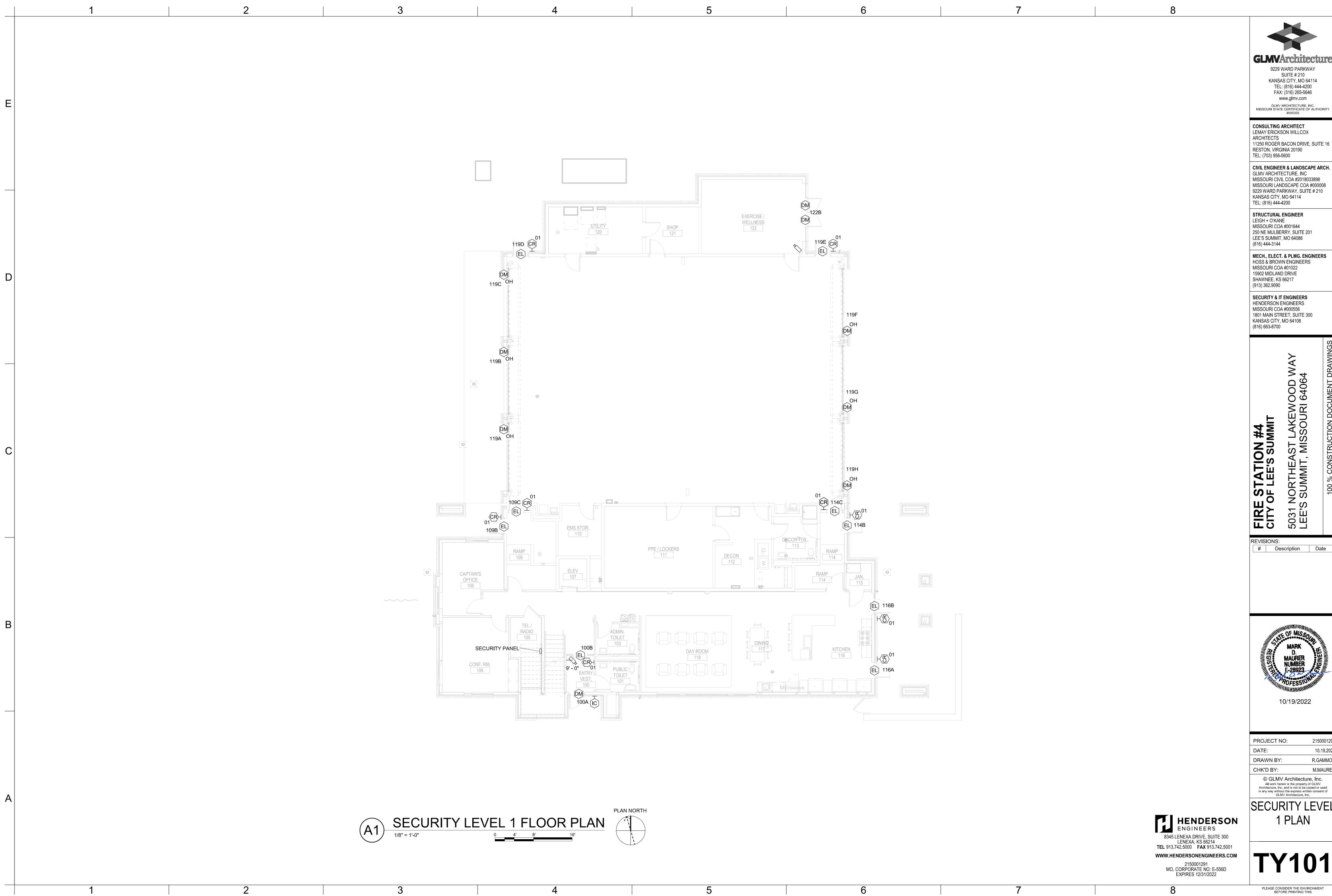
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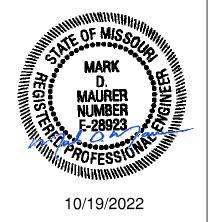
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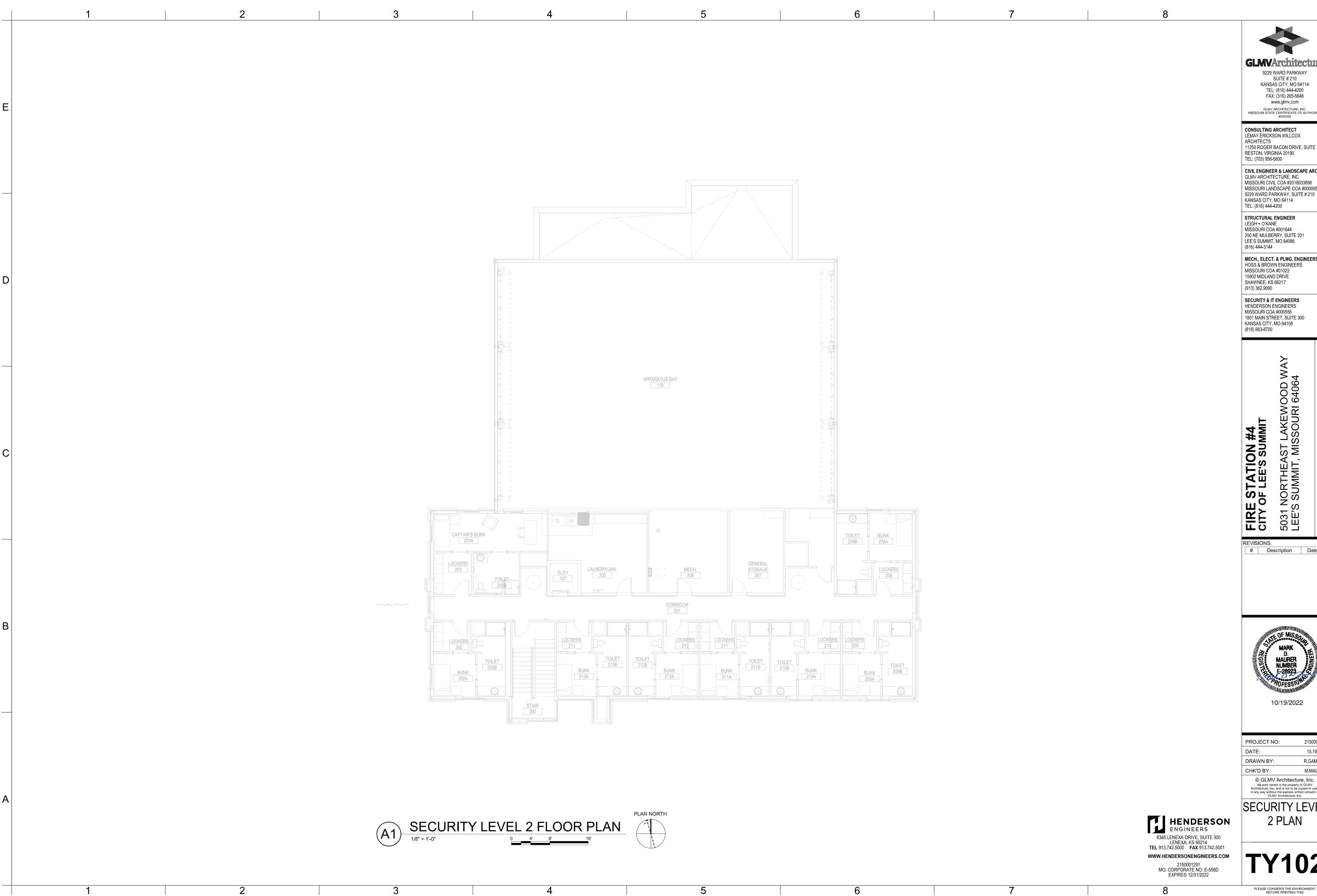
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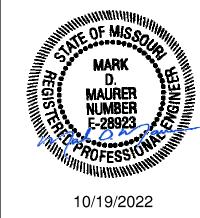
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