

VICINITY MAP



7 BREW COFFEE

LEE'S SUMMIT, MO

220337BLS APRIL 22, 2022

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BUILDING SUPPLIER



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LEE LOVEALL OWNER/DESIGN CONSULTANT C: 417.353.1865

E: LEE@CMCMOD.COM

BUILDING CODE INFORMATION

AUTHORITY HAVING JURISDICTION: CITY OF LEES SUMMIT

APPLICABLE BUILDING CODES: 2018 IBC, 2017 NEC, 2010 ADA

CP-2, PLANNED COMMUNITY COMMERCIAL CURRENT ZONING:

USE GROUPS: B, BUSINESS

CONSTRUCTION TYPE:

ALLOWABLE HEIGHT: 2 STORIES (BASED ON B USE GROUP, IBC 2018, 504.3)

ALLOWABLE AREA: 9,000 S.F. (BASED ON B USE GROUP, IBC 2018, 506.2)

ACTUAL AREAS:

SEE EGRESS PLAN FOR ADDITIONAL ITEMS OTHER CODE ITEMS:

PROJECT DESCRIPTION

BUILDING LIMITATIONS:

PREFABRICATED FREESTANDING BUILDING WITH ACCOMPANYING WALK-IN COOLER DELIVERS COFFEE, TEA, AND ENERGY DRINKS TO CUSTOMERS VIA DRIVE-THROUGH LANES. NO INTERIOR OR EXTERIOR DINING COMPONENT IS PROVIDED; THE INTERIOR IS ONLY OCCUPIED BY STAFF. DRINK ITEMS ARE THE ONLY ITEMS OFFERED ON THE MENU.

CONSULTANTS

CIVIL ENGINEER:



8040 NORTH OAK TRAFICWAY KANSAS CITY, MO 64118

(816) 468-5858



PHONE: 417.708.9315

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER:



NAME: ADAM KREHER LICENSE NO. 2011002764

PROJECT NUMBER:

ARCHITECT OF RECORD:

22033 7BLS

REVISION:

COVER SHEET

DATE: APRIL 22, 2022

EQUIP	MENT	AND FIXTURE SCHED	ULE			
ITEM NO.	QTY.	MANUFACTURER	PRODUCT	PRODUCT NO.	SIZE	NOTES
EQ-1	1	NOLAKE	REMOTE WALK-IN COOLER	KODB77104-C	675 CUBIC SF	
EQ-2	1	BUNN WATER HEATER	HOT WATER MACHINE	H5X - ELEMENT		
EQ-3	2	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV) - 3		
EQ-4	1	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV) - 4		
EQ-5	2	MANITOWOC	ICE MAKER HEADS	IYF 1800 C		REMOTE CONDENSOR - IF 1800C
EQ-6	1	MANITOWOC	ICE MAKER BIN	LB 1760	60"	
EQ-7	27	TORRANI	SYRUP RACK			
EQ-8	3	VITAMIX	BLENDER			
EQ-9	4	EAGLE GROUP	STAINLESS STEEL STORAGE SHELVING	(1) SS 1872 - PZ86S (2) SS 1424 - PZ86S (3) SS 1436 - PZ86S (4) SS 1436 - PZ86S		
EQ-10	1	SPACEMAN	CHILLER MACHINE	N236-1VA0B		
EQ-11	3	MAZZER	COFFEE BEAN GRINDER	ROBUR S NERO		
EQ-12	1	MAZZER	DECAF COFFEE BEAN GRINDER	SUPER JOLLY PRO V (E) NERO		
EQ-13	1	RUBBERMAID	TRASH CONTAINER			
EQ-14	1	ATOSA	REACH-IN COOLER	MCF8723GR		
EQ-15	3	LA CROSSR	MOBILE ICE BINS	513034 CL-24ICCCAB-31		
EQ-16	1	CONTINENTAL	UNERCOUNTER COOLER	SW36NGD-U		
EQ-17	3	STRONGWAY	AIR CURTAIN	49947		
EQ-18	3		RAPID RINSER			

EQUIPMENT SCHEDULE NOTES:

a. ALL EQUIPMENT TO BE INSTALLED BY A LICENSED INSTALLER AND THE MANUFACTURERS SPECIFICATIONS.

GENERAL SCHEDULE NOTES:

THE ITEMS IDENTIFIED ON THE FINISH MATERIALS SCHEDULE, EQUIPMENT AND FIXTURE SCHEDULES HAVE BEEN SELECTED AND APPROVED FOR THE USE ON 7 BREW COFFEE PROJECTS AS "STANDARDS". ITEMS SPECIFIED MAY OR MAY NOT ACTUALLY APPEAR ON THE DRAWINGS. THE DESCRIPTIONS ARE TO IDENTIFY THE PRODUCTS AND NOT TO DETERMINE THE INCLUSION OR USE OF ANY PARTICULAR ITEM.

SYMBOL	ITEM	DESCRIPTION	REMARKS
FRP-1	MEG-WALLS	WHITE	MEG PANELS
MP-1	METAL SIDING	CUSTOM COLOR: ZINC GRAY FINISH: SMOOTH	EXTERIOR SIDING
MP-2	BRAKE METAL	COLOR: SLATE BLUE FINISH: SMOOTH	METAL ROOF, COPING AND CANOPY COLUMNS
MP-3	BRAKE METAL	COLOR: MATTE BLACK FINISH: SMOOTH	METAL SOFFIT AND COPING
MP-4	BRAKE METAL	COLOR: ZINC GRAY FINISH: SMOOTH	METAL COPING AT SIDE WALLS
MP-5	BRAKE METAL	COLOR: COLONIAL RED FINISH: SMOOTH	METAL COPING
PL-1	DECORATIVE PANEL	NICHIHA MODERNBRICK COLOR: MIDNIGHT FIBER CEMENT PANEL	EXTERIOR FINISH
PL-2	DECORATIVE PANEL	NICHIHA CANYONBRICK COLOR: SHALE BROWN FIBER CEMENT PANEL	EXTERIOR FINISH
WC-1	DECORATIVE WALL COVERING	CUSTOM VINYL WALL COVERING	COOLER WALLS
VT-1	RESILIENT VINYL FLOORING	PROTECT-ALL FLOORING COLOR: LIGHT GRAY	SERVICE AREA AND TOILET
VB-1	RESILIENT VINYL BASE	PROTECT-ALL BASE COLOR: LIGHT GRAY	SERVICE AREA AND TOILET

FINISH MATERIALS SCHEDULE NOTES:

- a. PROVIDED BY 7 BREW AND INSTALLED BY GENERAL CONTRACTOR.
- b. ALL MATERIALS AND WORK PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
- c. PROVIDE A MINIUM OF TWO (2) COATS PAINT OVER ONE (1) COAT PRIMER ON ALL EXPOSED GYP BD IN SERVICE AREA AND TOILET
- d. CEILING AND WALL TO BE SATIN FINISH. DOORS AND DOOR FRAMES TO BE SEMI-GLOSS.

GENERAL CONSTRUCTION PROCEDURES

- 1. ALL CONSTRUCTION SHALL BE EXECUTED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND ORDINANCES.

 GENERAL CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION REGULATIONS AND PROCEDURES ESTABLISHED BY
 THE LANDLORD.
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING APPLICATION FOR AND PROCURING ALL PERMITS AND CERTIFICATES AS MIGHT BE REQUIRED BY GOVERNING AGENCIES AND SHALL BEAR THE COST FOR SUCH PERMITS AND CERTIFICATES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS OF THE SITE.
- 3. EVERY EFFORT HAS BEEN MADE TO ASSURE ACCURATE CONSTRUCTION DOCUMENTS, BUT IF A CONFLICT EXISTS THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION. THESE DOCUMENTS INDICATE THE DESIGN INTENT AND IF EXISTING CONDITIONS ARE IN CONFLICT THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- 4. THE GENERAL CONTRACTOR SHALL MAINTAIN DIRECT SUPERVISION OVER ALL SUBCONTRACTORS AND SHARE RESPONSIBILITY FOR THEIR PERFORMANCE AND QUALITY OF WORK. A LIST OF ALL SUBCONTRACTORS SHALL BE PROVIDED TO THE OWNER AND THE ARCHITECT. A COPY OF THIS LIST SHALL BE POSTED ON THE JOB SITE.
- 5. ALL SIGNAGE AND MOUNTING DEVICES SHALL BE PROVIDED, AND ALL SIGNAGE APPOVALS OBTAINED, BY OWNERS SIGN CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER AS REQUIRED AND INSURE SUFFICIENT SPACE AND CLEARANCE IS PROVIDED FOR PROPER INSTALLATION. SIGNAGE CONTRACTOR SHALL APPLY FOR AND SECURE ALL APPROVALS REQUIRED BY ALL LOCAL GOVERNING AGENCIES AND SUPPLY ANY DRAWINGS OR GRAPHIC REPRESENTATIONS REQUIRED BY LANDLORD.
- ALL CONCEALED WOOD BLOCKING USED IN CONSTRUCTION SHALL BE FIRE-RETARDENT TREATED (IF APPLICABLE).
 GENERAL CONTRACTOR SHALL PERFORM AND/OR CAUSE TO BE PERFORMED ALL WORK IN A FIRST-CLASS WORKMANLIKE MANNER AND IN ACCORDANCE WITH EACH TRADE'S ESTABLISHED PROCEDURES AND
- 8. ALL PRODUCTS USED ON THIS PROJECT SHALL BE FIRST QUALITY, NEW AND FREE OF ASBESTOS OR OTHER ENVIRONMENTALLY UNSAFE SUBSTANCES.
- 9. MILLWORK, BASE, DESIGNATED TRIM, ETC. SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR WHERE INDICATED ON THE DRAWINGS AND/OR SCHEDULES.
- 10. GENERAL CONTRACTOR SHALL CONTACT ARCHITECT PRIOR TO CONSTRUCTION START DATE TO CONFIRM THAT HE/SHE HAS LATEST APPROVED CONSTRUCTION DOCUMENTS FOR THIS LOCATION.

SUSTAINABILITY GUIDELINES

MANUFACTURER'S RECOMMENDATIONS FOR PRODUCT USE AND INSTALLATION.

THE FOLLOWING GUIDELINES TO BE USED BY GENERAL CONTRACDTOR ARE VOLUNTARY IN NATURE. IT IS HIGHLY RECOMMENDED THAT THE GENERAL CONTRACTOR FOLLOW THESE GUIDELINES TO THE EXTENT IT IS FEASIBLE..

- 1. IMPROVE INDOOR AIR QUALITY:
- A. REDUCE CONSTRUCTION DUST AND AIR PARTICULATES WITH DUST CONTAINMENT SYSTEMS AND/OR SHUT
- B. CHANGE HVAC FILTERS AT THE CONCLUSION OF THE JOB.
- C. USE LOW V.O.C. PAINTS, ADHESIVES, SEALANTS, ETC

PREFABRICATED BUILDING

THIS BUILDING IS BEING FABRICATED IN A CONTROLLED ENVIRONMENT AND TRANSFERRED TO THE JOB SITE.
CJD ENGINEERING GROUP HAS BEEN ENGAGED TO CONDUCT 3rd PARTY INSPECTIONS OF ALL FABRICATION WITHIN
THE 7 BREW COFFEE WAREHOUSE. THE INSPECTION WILL INCLUDE STRUCTURAL, FRAMING, BUILDING, PLUMBING
AND ELECTRICAL.

YPICAL SYMBOL LEG	SEND	
DETAIL NUMBER SHEET NUMBER DETAIL DESIGNATION 12/A3.4	ELEVATION HEIGHT	T.O. WALL 106'-0"
SQUARE FOOTAGE ROOM NUMBER NAME [101] 150 SF	ELEVATION TAG	1 A1.1 1
DOOR TAG (101)	CEILING HEIGHT	0'-0"
SECTION CUT TAG	WINDOWTAG	W1
ROOF SLOPE 12	REVISION DELTA	À
WALL TYPE/ PARTITION TYPE	GRID BUBBLE	0
WALL PARTITION	ENLARGED DETAIL	1 101

MATERIAL INDICATION

EXISTING WALL

CONCRETE	4	FINISHED WOOD	
DIMENSIONAL LUMBER		GYPSUM BOARD	
RIGID INSULATION		PLYWOOD	
BATT OR BLOWN INSULATION		GLASS	
EARTH/BACKFILL		СМИ	

FINISH TAG

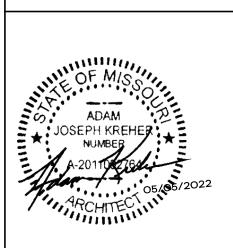
PT-1

ABBREVIATIONS

ACCOUST.	ACOUSTICAL	FR	FIRE RETARDANT	RCP	REINFORCED
ADD'	ADDITIONAL	FRM	FRAME		CONCRETE PIPE
A.F.F.	ABOVE FINISH FLOOR	FURN	FURNISHED	RE	REFER
AF	AS FURNISHED	F.R.T.	FIRE RETARDANT	R.H.B.	RIGHT HAND BEVE
Al	AS INSTALLED		TREATED	R.H.R.B.	RIGHT HAND
ALT.	ALTERNATE	FTG	FOOTING		REVERSE BEVEL
ALUM.	ALUMINUM	FUR	FURRING	RL	RAIN LEADER
ANCH.	ANCHOR	GA.	GAUGE	RM	ROOM
ARCH.	ARCHITECT	GAL	GALLON	R.O.	ROUGH OPENING
@	AT	GALV	GALVANIZED	RES.	RESILIENT TILE
B.B	BOTTOM OF BEAM	GC	GENERAL CONTRACTOR	REQ'D	REQUIRED
B.F.	BOTTOM OF FOOTING	G.I.	GALVANIZED IRON	REQM'T	REQUIREMENT
BD	BOARD	GLAZ.	GLAZING	R.T.V.	ROTARY-TURBINE
BKT.	BRACKET	GOV'T	GOVERNMENT	REG	REGULAR
BLDG.	BUILDING	G.S.	GRAVEL STOP	SAF	SAFETY
BLK'G	BLOCKING	GEN	GENERAL	SAN	SANITARY
BM	BENCH MARK	GYP	GYPSUM	SCHED	SCHEDULE
B.O.	BOTTOM OF	HDWR	HARDWARE	S.C.	SOLID CORE
BRG	BEARING	H.C.	HOLLOW CORE	SECT	SECTION
BSMT	BASEMENT	HOL	HOLLOW	SHT	SHEET
C.S.	COUNTERSUNK	HORIZ	HORIZONTAL	SIM	SIMILAR
CAB.	CABINET	H	HIGH	SPEC	SPECIFICATION
C.C	CENTER-TO-CENTER	HT.	HEIGHT	STND	STANDARD
CEM.	CEMENT	HTG.	HEATING	STD	STUD
CF	CONTRACTOR	HTR	HEATER	STL	STEEL
CECI	FURNISHED	H.W.	HOT WATER	STOR	STORAGE
CFCI	CONTRACTOR	I.D.	INSIDE DIAMETER	STRUCT	STRUCTURE/STRU
	FURNISHED CONTRACTOR	INSUL INT.	INSULATION INTERIOR	SURF SUSP	SURFACE SUSPENDED
	INSTALLED	INT.	INVERT	SUSP	SYSTEM
CI	CONTRACTOR	JNT	JOINT	S.W.	STORM WATER
CI	INSTALLED	JSTS	JOINT	TYP.	TYPICAL
CLG	CEILING	K.E.S.	KITCHEN EQUIPMENT	T.O.	TOP OF
C.O.	CLEAN OUT	IX.L.J.	SUPPLIER	U.N.O	UNLESS NOTED OT
COL	COLUMN	LAM	LAMINATE	VCP	VITRIFIED-CLAY-PI
CONC	CONCRETE	LAV	LAVATORY	VEST	VESTIBULE
CONF	CONFERENCE	LG	LONG	VERT	VERTICAL
CONN	CONNECTION	L.H.B.	LEFT HAND BEVEL	VOL	VOLUME
CONST'R	CONSTRUCTION	L.H.R.B.	LEFT HAND	V.T.R.	VENT-THRU-ROOF
CONT	CONTINUOUS		REVERSE BEVEL	VCT	VINYL COMPOSITI
CONT'R	CONTRACTOR	LIN	LINEAR/LINEAL	W	WIDE
COORD	COORDINATE	LVR	LOUVER	W/	WITH
CORR	CORRUGATED/	MAS	MASONRY	WD	WOOD
	CORRIDOR	MATL	MATERIAL	W.D.	WINDOW DIMENS
CTR	CENTER	MAX	MAXIMUM	WDW	WINDOW
CYL	CYLINDER	MEZZ	MEZZANINE	WRB	WEATHER RESISTA
¢	CENTERLINE	MFRD	MANUFACTURED		BARRIER
C.W.	COLD WATER	MFR	MANUFACTURER	WWF	WELDED WIRE FAI
DP	DEEP	MID	MIDDLE	W.P.	WEATHER PROOF
DBL	DOUBLE	MIN	MINIMUM	WT	WEIGHT
DEG	DEGREE	MISC	MISCELLANEOUS		
D.F.	DRINKING FOUNTAIN	MK	MARK		
DEMO	DEMOLITION	M.O.	MASONRY OPENING		
DIAØ	DIAMETER	MTD	MOUNTED		
DIAG	DIAGONAL	MTL	METAL		
DIM	DIMENSION	MULL	MULLION		
D.O.	DO-OVER	NOM	NOMINAL		
DTL	DETAIL	NTS	NOT TO SCALE		
DR	DOOR	O.A. O.C.	OVERALL		
D.S.	DOWNSPOUT	O.C.	ON CENTER OUTSIDE DIAMETER		
EA.	EACH	OFCI	OWNER FURNISHED		
ELEC	ELECTRICAL	0,0	CONTRACTOR		
ELEV	ELEVATION (VIEW)		INSTALLED		
ELEV	ELEVATOR	OFOI	OWNER FURNISHED		
E.W.C.	ELECTRIC WATER	0101	OWNER INSTALLED		
501115	COOLER	O/H	OVERHEAD		
EQUIP.	EQUIPMENT	0/	OVER		
EXIST'G	EXISTING	OPN'G	OPENING		
EXP	EXPOSED	OPP	OPPOSITE		
EXT	EXTERIOR / EXTENSION	PART	PARTITION		
F.B.O. F.D.	FURNISHED BY OTHERS	P.E.M.B.	PRE-ENGINEERED		
F.D. F.E.	FLOOR DRAIN		METAL BUILDING		
F.E.C.	FIRE EXTINGUISHER	PERIM	PERIMETER		
r.e.C.	FIRE EXTINGUISHER	P.G.	PRESENT GRADE		
F.E.B.	CABINET	PLAM	PLASTIC LAMINATE		
r.E.D.	FIRE EXTINGUISHER	PLAS	PLASTIC		
FIN	BRACKET FINISH	PL	PROPERTY LINE		
F.G.		PLUMB'G	PLUMBING		
F.G. F.L.	FINISH GRADE FLOW LINE	PLY	PLYWOOD		
F.L. FLASH'G	FLOW LINE FLASHING	P.P.	POWERPOLE		
	FLASHING	PR	PAIR		
	EI OOD	FN			
FLR	FLOOR	PVC	POLYVINYL CHLORIDE		
	FLOOR FACE OF MASONRY FOUNDATION				



7 BREW COFFEE
LEE'S SUMMIT, MC



ARCHITECT OF RECORD:

NAME: ADAM KREHER

PROJECT NUMBER: 22033 7BLS

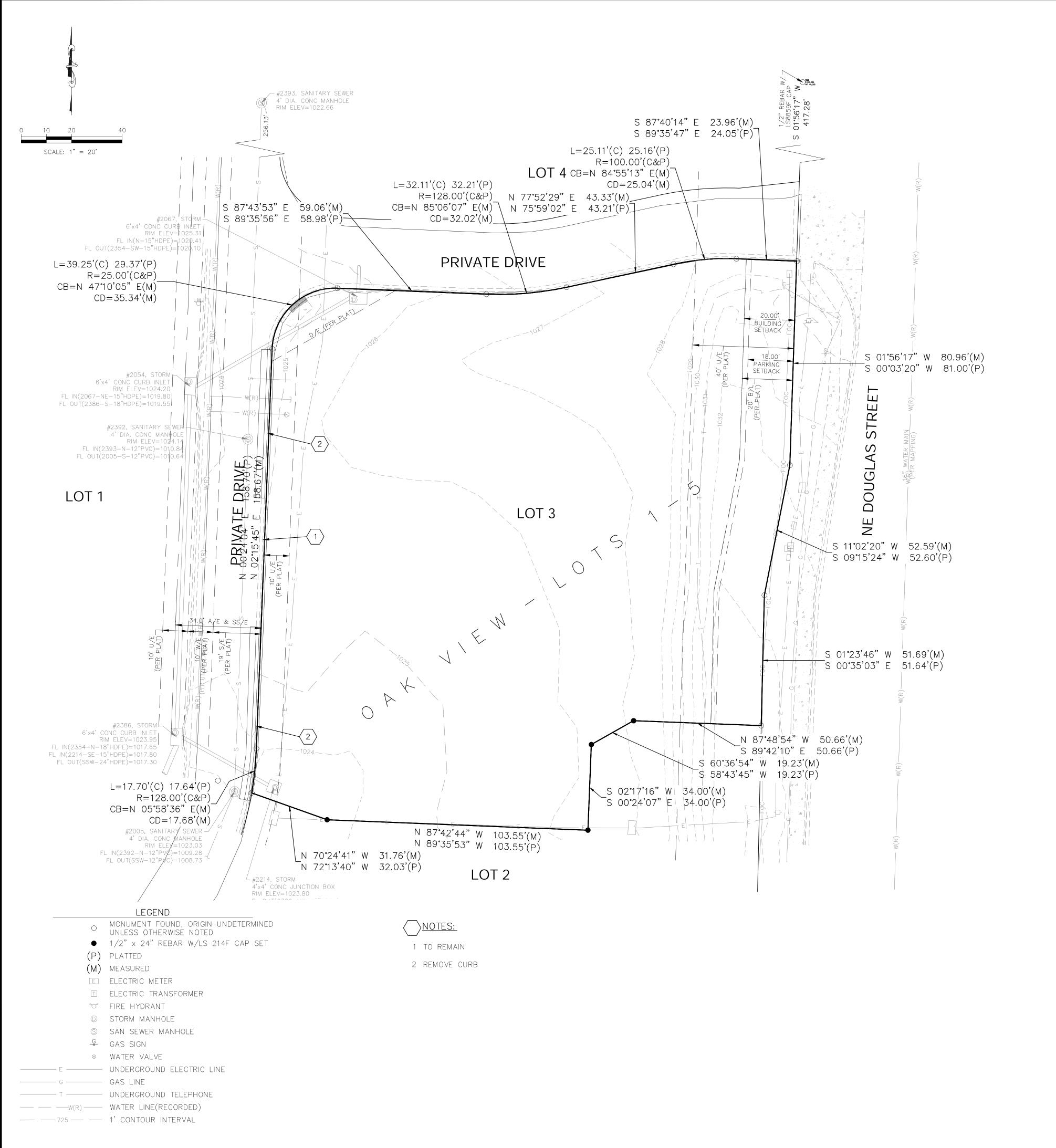
REVISION:

GO.1

GENERAL NOTES &

SCHEDULES

DATE: APRIL 22, 2022



THIS DRAWING SHALL NOT BE LITHLIFED BY ANY PERSON FIRM OR CORPORATION IN WHOLF OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING INC

1. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE AS SHOWN, IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY AND STATE REGULATIONS.

- 2. ALL STRUCTURES AND MATERIAL WITHIN DEMOLITION LIMITS TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 3. ALL HAZARDOUS ASBESTOS AND OTHER HAZARDOUS MATERIALS MUST BE IDENTIFIED AND REMOVED PRIOR TO ANY BUILDING DEMOLITION, IN STRICT CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 4. DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 5. ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL

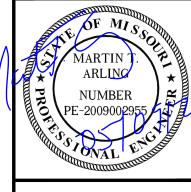
FLOOD STATEMENT:

THE ACCURACY OF ANY FLOOD HAZARD DATA SHOWN HEREON IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP. THE SURVEYED PROPERTY LIES WITHIN FLOOD HAZARD ZONE "X, NON-SHADED" AS SAID PROPERTY PLOTS BY SCALE ON THE FLOOD INSURANCE RATE MAP CITY OF LEE'S SUMMIT, COMMUNITY PANEL NO. 29095C0409G, EFFECTIVE ON 01/20/2017.

DATUM BENCHMARK: DATUM IS U.S. SURVEY FEET AND REFERS TO NAVD88 DATUM DERIVED FROM CONNECTIONS TO NATIONAL CORS NETWORK VIA GPS STATIC SESSIONS ON PROJECT CONTROL PROCESSED WITH THE NATIONAL GEODETIC SURVEY'S OPUS PROJECTS UTILITY. ORTHOMETRIC HEIGHT WAS CALCULATED USING THE GEOID12B MODEL.

BENCHMARKS:

- JA-43: 3" ALUM DISK STAMPED JA-43 ON THE WEST SIDE OF DOUGLAS AND 44'± SOUTH OF THE S.E. BOUNDARY CORNER OF THE SURVEY.
- BS#60: FOUND "SQUARE" CUT ON THE BACK OF CURB ON THE SOUTH SIDE OF A PRIVATE DRIVE ON THE NORTH SIDE OF LOT 3 AND LOCATED NEAR THE NORTHEAST BOUNDARY CORNER, MARKED BY OTHERS 1028.00. ELEV= 1028.03



 $|\Sigma|$

MARTIN T. ARLING ENGINEER MO # 2009002955

GINEERING

7 BREW 1410 N.E. DOUGLAS STREE LEE'S SUMMIT, MO. 64086

UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

<u>CAUTION - NOTICE TO CONTRACTOR:</u>

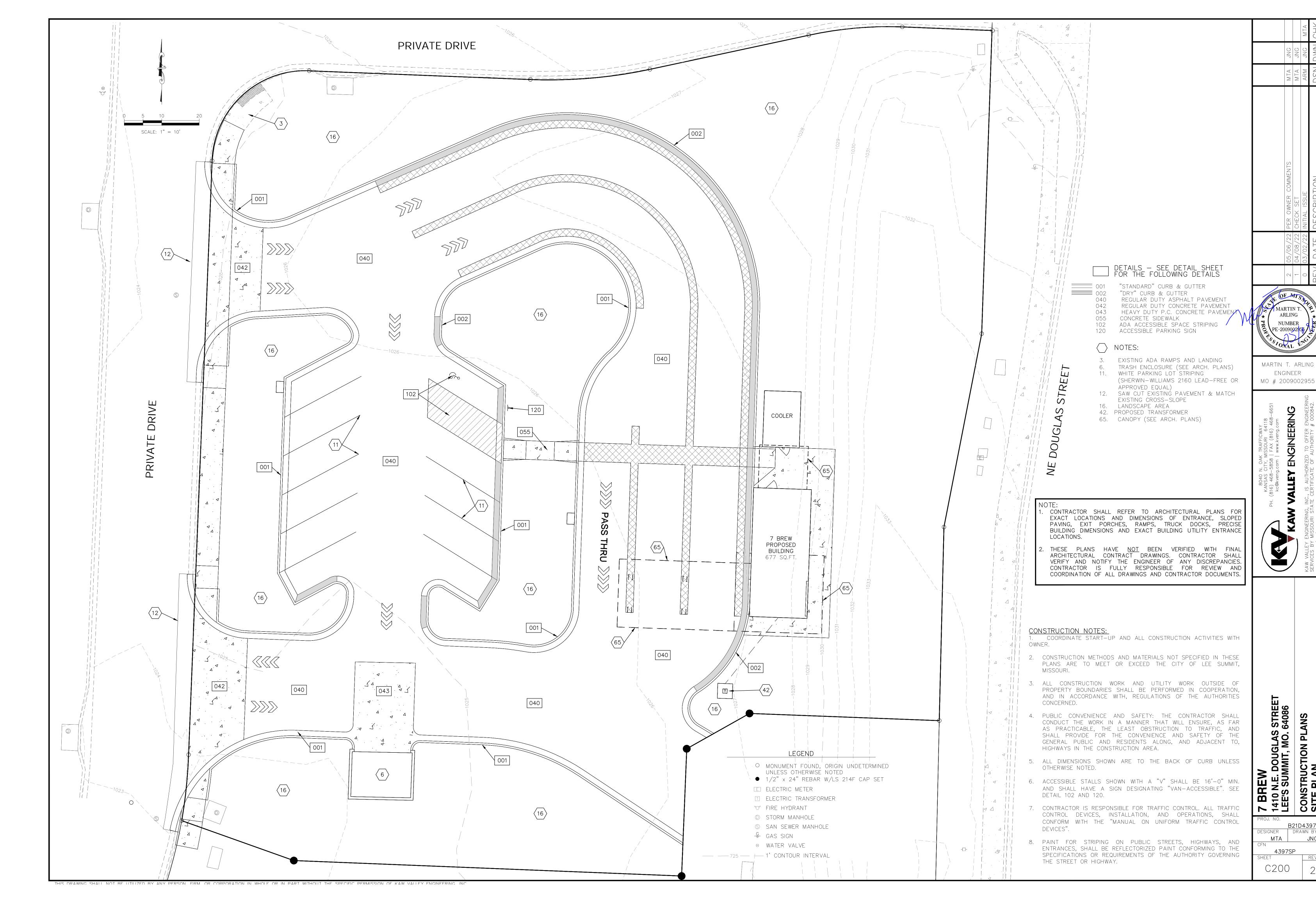
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

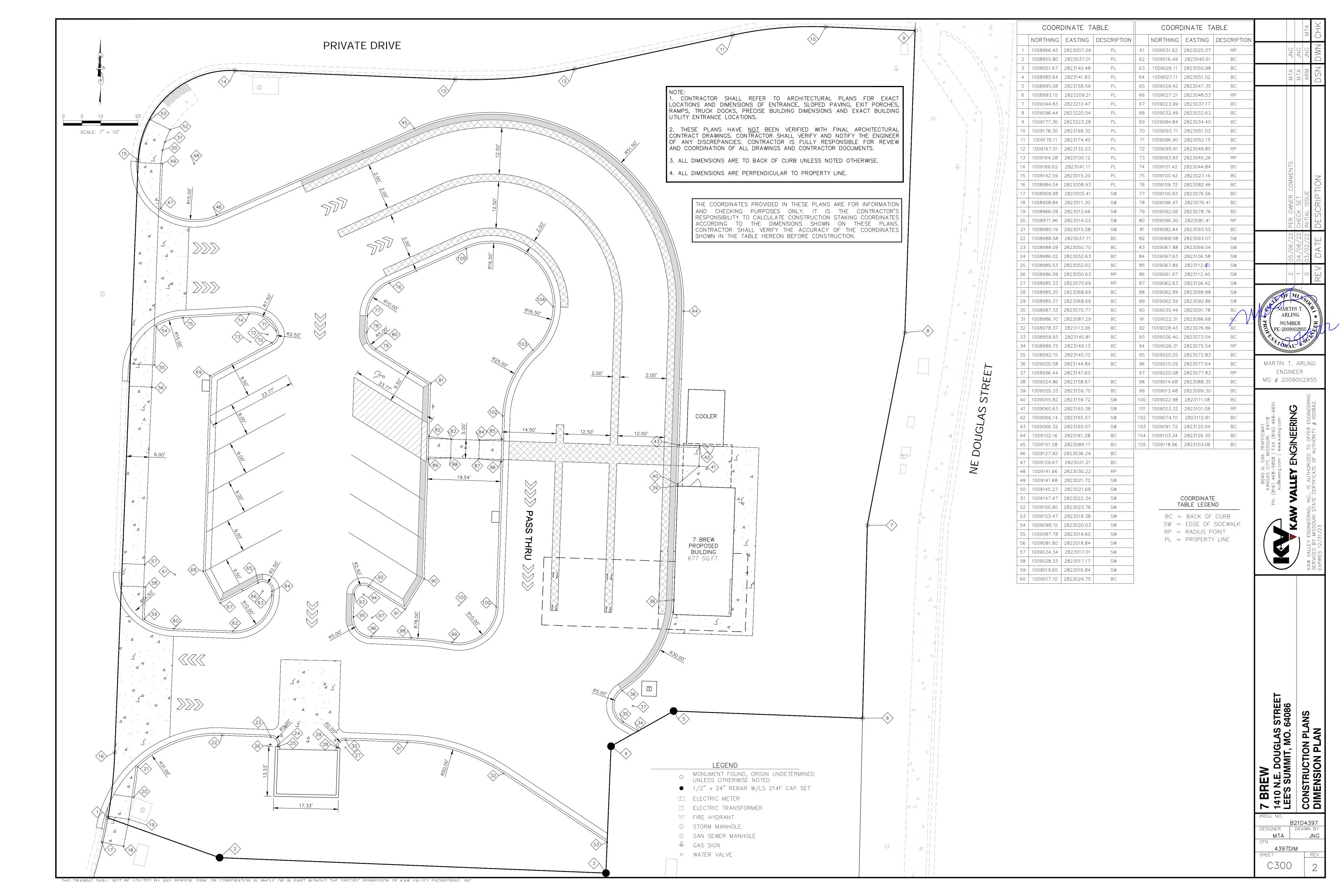


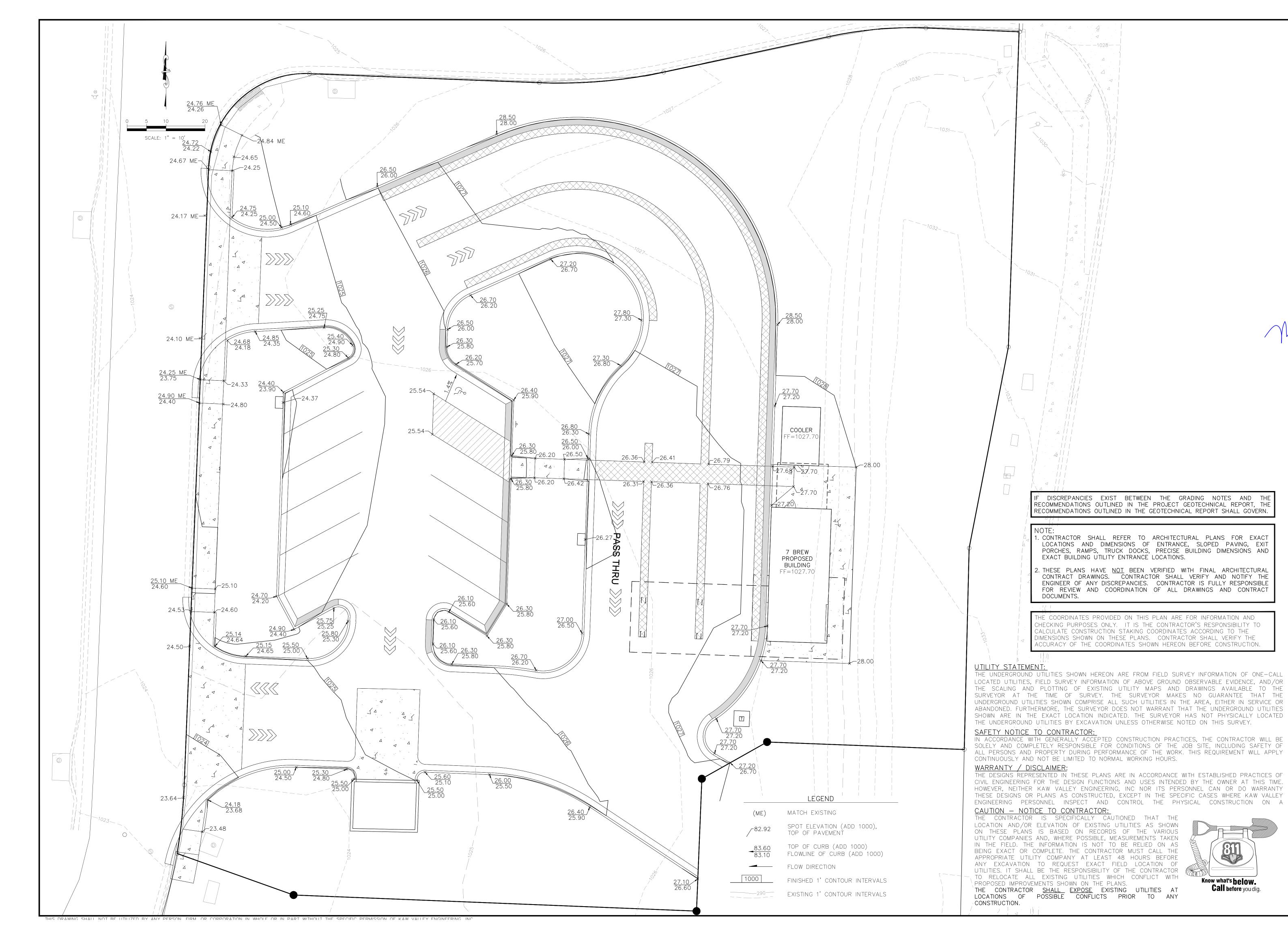
DESIGNER DRAWN B MTA

4397DEMO

C100







MARTIN T. ARLING MO # 2009002955

ENGINEERING

STREE 64086

7 BREW 1410 N.E. DOUGLAS E LEE'S SUMMIT, MO. 6

DESIGNER DRAWN B MTA

4397GP

C400

Know what's below.

Call before you dig.

GRADING NOTES:

- 1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING.
 TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED
 WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING
 OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.
- 2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
- 3. OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN FOUR INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER PRIOR TO BRINGING ON SITE.
- 4. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON—SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.
- 5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
- 6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 8. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED.
- 9. ALL SLOPES EXCEEDING 3:1 SHALL BE PROTECTED BY RIP RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS, THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.
- 10. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON—SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- 11. CONTRACTOR SHALL USE SILT FENCE, BALES OF HAY OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.
- 12. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
- 13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- 14. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
- 15. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 16. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.

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MARTIN T. ARLING ENGINEER MO # 2009002955

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(816) 468-5858 | FAX (816) 468-6651
kc@kveng.com | www.kveng.com

ALLEY ENGINEERING

C., IS AUTHORIZED TO OFFER ENGINEERING
CERTIFICATE OF AUTHORITY # 000842.



<u>Utility statement:</u> The underground utilities shown hereon are from field survey information of one-call

LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

SAFETY NOTICE TO CONTRACTOR:

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WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OF PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

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THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.



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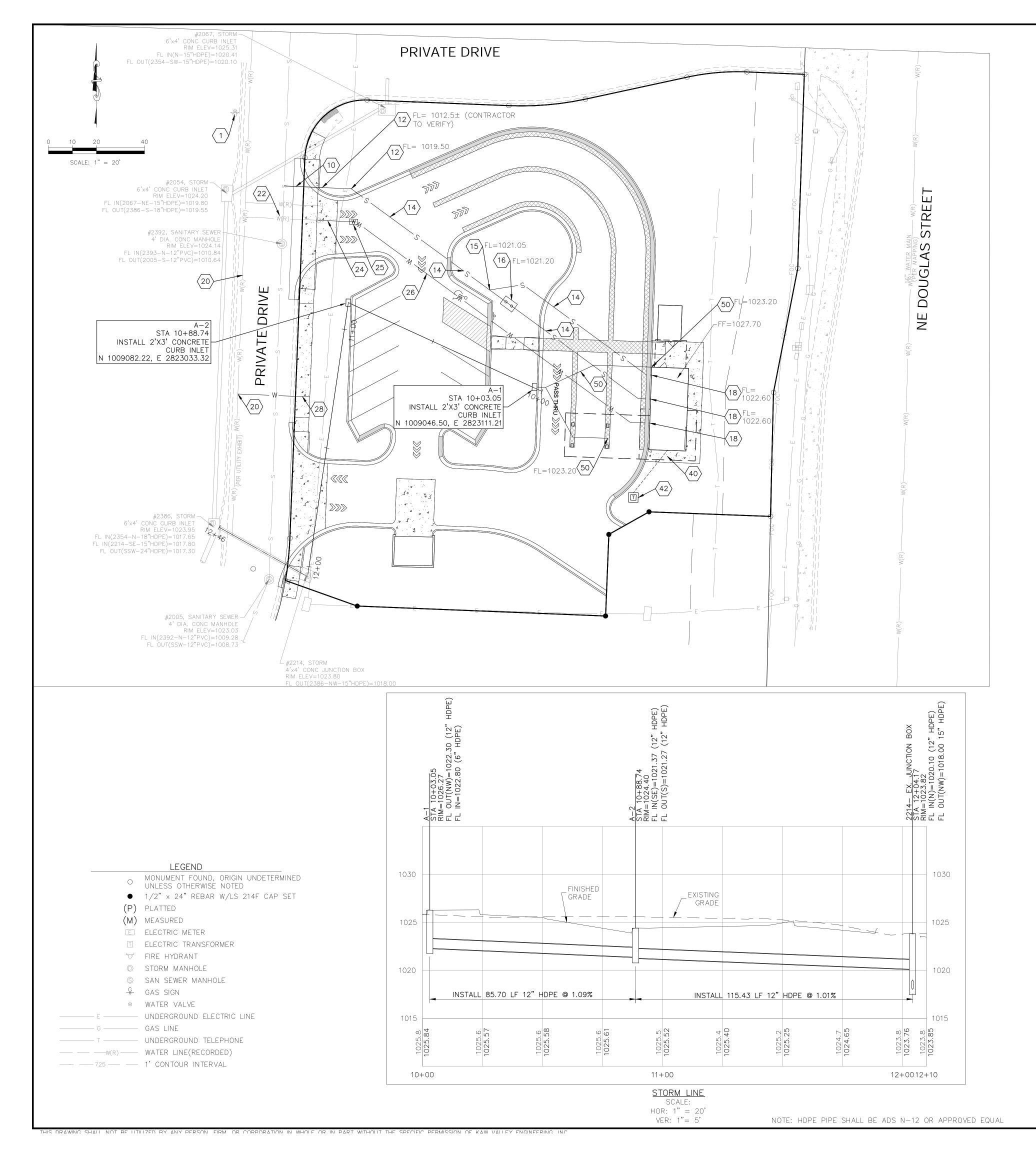
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UTILITY NOTES:

- 1. THE CITY OF LEE'S SUMMIT SHALL BE GIVEN AT LEAST A 48-HOUR NOTICE PRIOR TO PERFORMING ANY INSPECTION, SITE DISTURBANCE OR UTILITY WORK.
- 2. CONSTRUCTION SHALL NOT START ON ANY PUBLIC WATER OR SANITARY SEWER SYSTEM UNTIL WRITTEN APPROVAL FROM THE OWNER, AND PERMITS FROM THE CITY HAVE BEEN RECEIVED.
- 3. ALL UTILITY AND STORM SEWER TRENCHES CONSTRUCTED UNDER AREAS THAT RECEIVE PAVING SHALL BE BACKFILLED TO 18 INCHES ABOVE THE TOP OF THE PIPE WITH CRUSHED STONE BASE MATERIAL PLACED ON EIGHT-INCH LIFTS, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- 4. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. KAW VALLEY ENGINEERING AND OWNER ARE TO BE HELD HARMLESS.
- 5. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR UNDER SUPERVISION OF A REPRESENTATIVE OF THE CITY WATER DEPARTMENT. CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT 24 HOURS MINIMUM, PRIOR TO ANY TESTING.
- 6. ALL CONSTRUCTION, INCLUDING SANITARY SEWER AND WATER INFRASTRUCTURE, SHALL BE IN ACCORDANCE WITH THE CITY IF LEE'S SUMMIT'S DESIGN AND CONSTRUCTION MANUAL.
- 7. LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER, TO AVOID CONFLICTS.
- 8. CONTRACTOR TO INSTALL TRACING TAPE ALONG ALL NON-METALLIC WATER MAINS AND SERVICE LINES PER SECTION 6900 OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
- 9. CONTRACTOR <u>SHALL EXPOSE</u> EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
- 10. WATER SERVICE LINES SHALL HAVE A MINIMUM COVER OF 48 INCHES AND A MAXIMUM COVER OF 60 INCHES UNLESS OBSTRUCTIONS REQUIRE DEEPER EXCAVATIONS. ALL VALVES ON MAINS AND FIRE HYDRANT LEADS SHALL BE WITH VALVE BOX ASSEMBLIES. THE SIZE OF VALVE BOX ASSEMBLY TO BE INSTALLED IS DETERMINED BY THE TYPE AND SIZE OF VALVE. VALVE BOX CAPS SHALL HAVE THE WORD "WATER".
- 11. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. WHEN IT IS NECESSARY FOR ANY WATER LINE TO CROSS A SANITARY SEWER LINE, THE SEWER LINE SHALL BE ENCASED IN CONCRETE OR CONSTRUCTED OF DUCTILE IRON PIPE OR PVC PIPE WITH NO JOINTS WITHIN 10 FEET OF THE CROSSING UNLESS THE WATER LINE IS AT LEAST 2 FEET CLEAR DISTANCE ABOVE THE SANITARY SEWER LINE.
- 12. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF AL DRAWINGS AND CONTRACTOR DOCUMENTS.

- EXISTING FIRE HYDRANT
- 10 EXISTING 6" SANITARY SEWER SERVICE LINE (FROM RECORD INFORMATION)
- 12 CONNECT TO EXISTING 6" SANITARY SEWER SERVICE LINE WITH 4"X6" SDR 26 REDUCER (CONTRACTOR TO VERIFY FLOW LINE PRIOR TO SERVICE LINE
- INSTALLATION) 14 INSTALL 4" SDR 26 SANITARY SEWER SERVICE LINE @ 2% MIN. SLOPE
- 15. INSTALL 4"X4" WYE
- 16 INSTALL GREASE TRAP (SEE MEP PLANS FOR SIZE)
- 18 CONNECT TO BUILDING
- 20 EXISTING 8" WATER MAIN
- 22 EXISTING 1" WATER SERVICE LINE AND VALVE
- 24 CONNECT TO EXISTING WATER SERVICE 25 PROPOSED 1" WATER METER
- 26 INSTALL 1" TYPE K COPPER WATER SERVICE LINE PER SECTION 6900 OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL
- 28 PROPOSED 3/4 WATER SERVICE TAP FOR IRRIGATION PER SECTION 6900 OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL
- 29 INSTALL 3/4 TYPE K COPPER (SEE IRRIGATION PLANS FOR MORE INFORMATION) 40 PROPOSED SECONDARY ELECTRICAL CONDUITS. CONTRACTOR SHALL COORDINATE
- NUMBER AND SIZE OF CONDUITS WITH MEP
- 42 PROPOSED TRANSFORMER
- 50 INSTALL 6" HDPE ADS N-12 PIPE @ 1% MIN. SLOPE COORDINATE LOCATION WITH ROOF DRAINS. SEE ARCHITECTURAL PLAN FOR CONNECTION DETAIL

<u>UTILITY STATEMENT:</u>

THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

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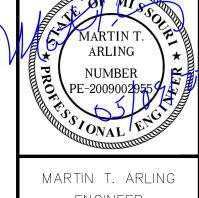
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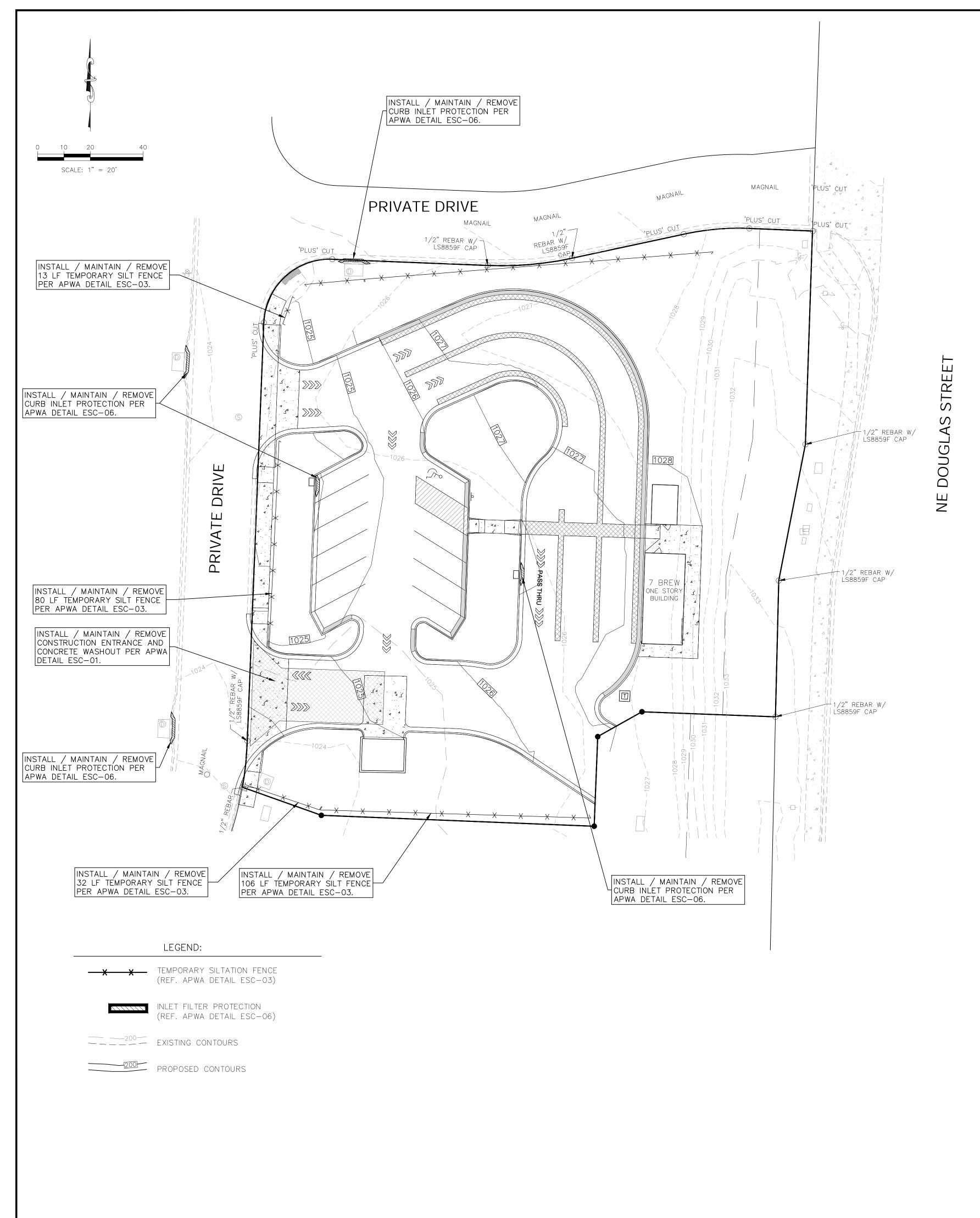
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EROSION CONTROL NOTES:

- PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
- 2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS AND DURING APPROPRIATE PHASING AS CONSTRUCTION PROGRESSES.
- 3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION. BUILDERS AND OR DEVELOPER TO MAINTAIN EROSION CONTROL AND SILT CONTROL UPON COMPLETION OF THIS PROJECT.
- 4. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
- 5. SEDIMENTATION BARRIERS ARE TO BE INSTALLED AS SHOWN AND AT ANY ADDITIONAL AREAS OF CONCENTRATED FLOWS NOT SHOWN ON PLANS.
- 6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
- 7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
- 8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE FILTERS, OR SILT FENCE, OR STRAW BALES (PRIOR TO PAVING PLACEMENT). AFTER PAVEMENT IS IN PLACE, PROVIDE FILTER PROTECTION THAT CANNOT BE WASHED INTO INLETS OR WASHED AWAY. STRAW/HAY BALES WILL NOT BE ALLOWED ON CONCRETE OR ASPHALT PAVING.
- 9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS. ALL SEDIMENT CONTROL MEASURES TO BE INSPECTED AND REPAIRED IMMEDIATELY AND ON A REGULAR BASIS AFTER ALL RAIN STORMS.
- 10. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH AN INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- 11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY TO PREVENT SEDIMENT FROM ENTERING STORM DRAINS, STREETS, AND WATERWAYS.
- 12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 13. TEMPORARY SEDIMENT FENCE EROSION CONTROL MEASURES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED. ON PROJECTS THAT ARE NOT EXPECTING IMMEDIATE DEVELOPMENT (I.E.— INTERCEPTOR SEWERS, OFFSITE IMPROVEMENTS, ETC.) EROSION CONTROL MEASURES ARE TO BE REMOVED BY CONTRACTOR AS SOON AS ADEQUATE VEGETATION IS ESTABLISHED.
- 14. MUD, SILT, AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL.
- 15. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF INFRASTRUCTURE AND BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES. NOTE: ALTHOUGH EXTENSIVE EFFORT IS PUT INTO THE DESIGN OF THE EROSION CONTROL PLAN BY THE ENGINEER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER TO ENSURE THAT ANY ADDITIONAL REQUIRED EROSION CONTROL MEASURES ARE INSTALLED AND MAINTAINED AT NO ADDITIONAL COST TO THE OWNER.
- 16. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE(S) AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
- 17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED, FLAT LOTS WILL NOT REQUIRE SEEDING BUT ALL SLOPES, DISTURBED AREAS AND STREET RIGHT-OF-WAYS WILL BE SEEDED.
- 18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
- 19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
- 20. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING, ADJACENT TO OR DOWNSTREAM FROM PROPERTY, BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
- 21. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
- 22. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE. ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
- 23. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED (CHUTE, TOOLS, ETC.) AT A CONTRACTOR DEFINED LOCATION. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
- 24. DEVELOPER IS RESPONSIBLE FOR HAVING LOT BUILDERS FOLLOW THE GUIDELINES OF "CONTROLLING EROSION WHEN BUILDING YOUR HOME" PROVIDED BY MISSOURI DEPARTMENT OF HEALTH AND ENVIRONMENT.
- 25. EROSION CONTROL STRAW/FIBER WATTLES TO BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.
- 26. THE CITY OF LEE'S SUMMIT SHALL BE GIVEN AT LEAST A 48-HOUR NOTICE PRIOR TO PERFORMING ANY INSPECTION, SITE DISTURBANCE OR UTILITY WORK.

TFMPORARY SEEDING

TO PROVIDE PROMPT EROSION CONTROL ON PROJECT TEMPORARY SEEDING MAY BE REQUIRED WHICH WILL DEPEND ON THE CONTRACTORS WORK SCHEDULE. TEMPORARY SEEDING WILL BE REQUIRED IN THE FOLLOWING AREAS:

1. IN SLOPES AND AREAS OF CONCENTRATED FLOW WITHIN 28 DAYS OF ROUGH GRADING.

2. IN AREAS THAT REQUIRE SEEDING BUT IS NOT WITHIN THE SEASON FOR PERMANENT SEEDING AS PER THE TECHNICAL SPECIFICATIONS. PLANT SELECTION - ANNUAL RYE GRASS, WHEAT OR OATS FOR TEMPORARY SEEDING

SEEDING — EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER OR HYDROSEEDER. ANNUAL RYE GRASS SHOULD BE APPLIED AT A RATE OF 120 LBS/ACRE, WHEAT OR OATS SHOULD BE APPLIED AT A RATE OF 100 LBS/ACRE. BROADCAST SEEDING AND HYDROSEEDING ARE APPROPRIATE FOR STEEP SLOPES WHERE EQUIPMENT CANNOT BE DRIVEN. HAND BROADCASTING IS NOT RECOMMENDED BECAUSE OF THE DIFFICULTY IN ACHIEVING A UNIFORM DISTRIBUTION. SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1/2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH. MULCHING — THE USE OF MULCH WILL HELP ENSURE ESTABLISHMENT UNDER NORMAL CONDITIONS AND IS ESSENTIAL TO SEEDING SUCCESS UNDER HARSH

CONDITIONS SUCH AS SEEDING IN FALL OR WINTER COVER (WOOD FIBER MULCHES ARE NOT CONSIDERED ADEQUATE FOR THIS USE), SLOPES STEEPER THAN 3:1, EXCESSIVELY HOT OR DRY WEATHER, ADVERSE SOILS (SHALLOW, ROCKY, HIGH IN CLAY OR SAND), AND AREAS RECEIVING CONCENTRATED FLOW. IF AREA TO BE MULCHED IS SUBJECT TO CONCENTRATED WATERFLOW, AS IN CHANNELS, ANCHOR MULCH WITH NETTING.

MAINTENANCE — RESEED, REFERTILIZE AND MULCH AREAS OF INSUFFICIENT GROWTH. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEE LANDSCAPE PLAN FOR PERMANENT SEEDING REQUIREMENTS.

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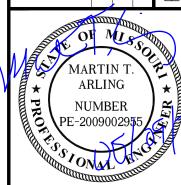
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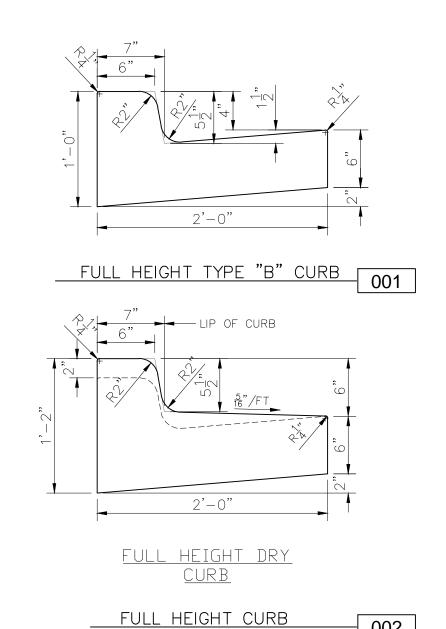
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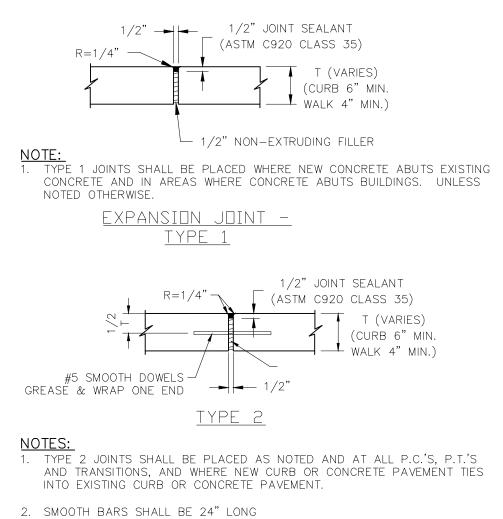
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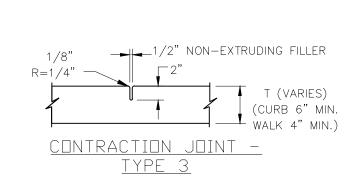
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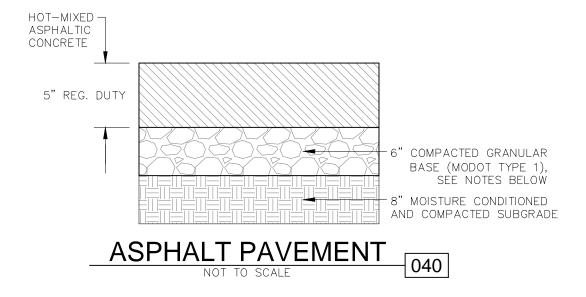


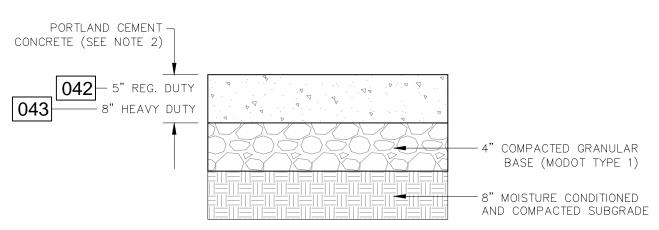
CURB & GUTTER

*GUTTER DEPTH MAY VARY TO IMPROVE DRAINAGE L

1. 1/2" PREMOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB 2 INLETS AND AT 250' CENTERS. THE EXPANSION JOINTS SHALL BE DOWELED IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTION JOINTS SHALL BE 2" DEEP AND PLACED AT 15' INTERVALS EQUALLY SPACED BETWEEN EXPANSION JOINTS.

- 2. ALL CONCRETE USED IN THIS WORK SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. KCMMB4K CONCRETE SHALL BE USED THROUGHOUT.
- 3. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- 4. SEE SIDEWALK RAMP DETAILS FOR TYPICAL SIDEWALK RAMP CURB & GUTTER SECTIONS.
- 5. DETAILS AS SHOWN FOR CONCRETE AND ASPHALT PAVING. WHEN USED WITH CONCRETE PAVING POURED MONOLITHICALLY WITH CURB NO MODIFICATIONS ARE REQUIRED. WHEN CURB AND CONCRETE PAVING ARE TO BE POURED SEPARATELY #4 BARS, 24" LONG ARE TO BE PROVIDED TO TIE CURB TOGETHER WITH CONCRETE PAVING.
- 6. ALL REINFORCING SHALL BE 60 ksi EPOXY COATED DEFORMED BARS AND COMPLY WITH ASTM A65.
- CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.





THIS STALL TO

ACCESSIBLE" WHEN

4" TRAFFIC —

OTHERWISE

INDICATED)

WHITE (UNLESS

SIGN "VAN

HAVE ADDITIONAL

A VAN ACCESSIBLE

STALL IS INDICATED

1. FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 OR M+E 2021 MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

- HOT-MIXED ASPHALT MODOT SP125FEEF OR APWA TYPE 6-01
- 2. PORTLAND CEMENT CONCRETE SHALL BE A KCMMB4K MIX AND SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200.
- 3. HEAVY DUTY CONCRETE IS AN OPTIONAL PAVEMENT FOR DETAIL 041 HEAVY DUTY ASPHALT. WHEN PLANS SPECIFY DETAIL 042 NO ALTERNATES ARE ALLOWED.
- 4. ASPHALT PAVEMENT MAY BE MODIFIED BY REPLACING GRANULAR BASE WITH AN ADDITIONAL ONE INCH OF HOT-MIXED ASPHALT CONCRETE.
- 5. IF A MARSHALL DESIGNED MIX IS DESIRED, ANY 50-BLOW MARSHALL MIX MAY BE SELECTED MEETING THE AGGREGATE AND GRADATION REQUIREMENTS OF APWA TYPE 2 OF 3, MODOT BP-1 OR 2, OR OTHER LOCALLY PRODUCED MARSHALL MIX THAT IS EQUIVALENT TO KDOT BM-2. ANY SUBMITTED 50-BLOW MARSHALL MIX DESIGN SHOULD ALSO BE CHECKED FOR RESISTANCE TO STRIPPING DURING DESIGN USING AASHTO T 283 TO DETERMINE IF AN ANTISTRIPPING AGENT IS NEEDED FOR THE SAME ASPHALT CONCRETE CHOSEN FOR THE PROJECT. THE INDEX OF RETAINED STRENGTH SHALL EXCEED 75%.

VARIES 8.0' MIN. 5.0' 8.0' MIN. 5' MIN. (SEE PLAN)

ACCESS)]

UNLESS OTHERWISE INDICATED)

VARIES SEE DIMENSION PLAN

ACCESSIBLE

NOT TO SCALE

NOTES:

1. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

WIDTH OF STALLS AND BUFFER ZONES.

2. ALL DIMENSIONS SHOWN ARE MINIMUM. SEE DIMENSION PLAN FOR

3. ADA PARKING SPACES AND ACCESS ISLES SHALL BE LEVEL WITH

SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

STANDARD

90° SPACE

- ACCESSIBILITY SYMBOL PER MUTCD FIGURE 3B-22

(WITHOUT BLUE BACKGROUND AND WHITE BORDER

- ACCESSIBLE PARKING SIGNAGE

SEE DIMENSION NOTE: PARKING

102

PLAN FOR SPACES AND ACCESS

SLOPES NOT

DIMENSIONS | AISLES SHALL BE

ALL DIMENSIONS SHOWN ARE MINIMUM.

SEE DIMENSION PLAN

FOR WIDTH OF STALLS

AND BUFFER ZONES.

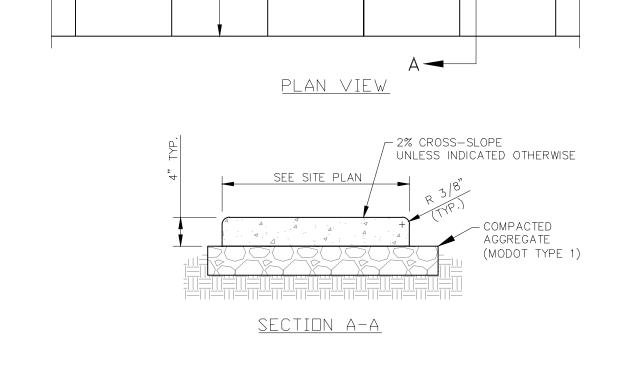
LEVEL WITH SURFACE

EXCEEDING 1:50 IN ALL DIRECTIONS

[8.0' (MIN

FOR VAN

ACCESS)]



1/4" THICKNESS PRE-MOLDED EXPANSION JOINT FILLER SPACED @ 50' CENTERS MINIMUM-

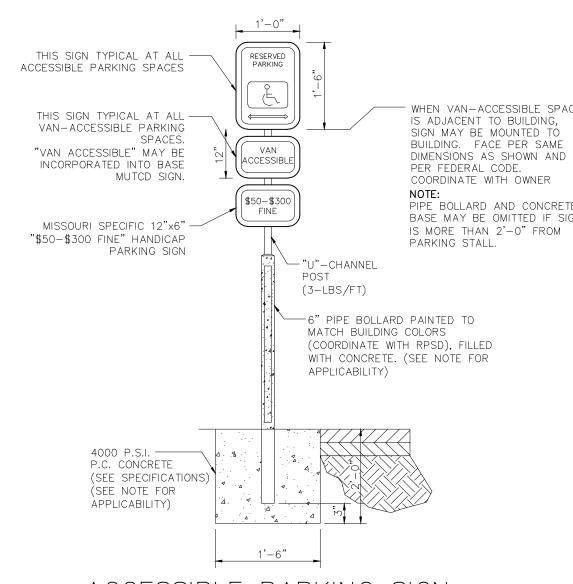
CONTRACTION JOINTS SPACE = W

CONCRETE SIDEWALK 055

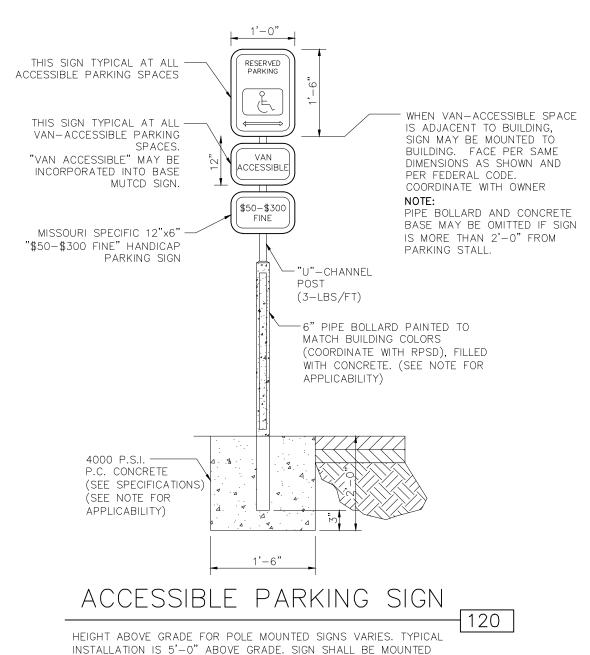
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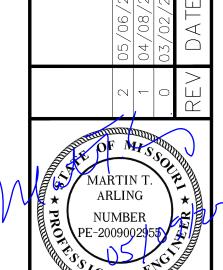
1. PORTLAND CEMENT CONCRETE USED IN CONSTRUCTION OF SIDEWALKS SHALL CONFORM TO KCMMB4K AND KCMO-APWA SECTION 2208.

2. CONTRACTOR SHALL BACKFILL SIDEWALKS WITH TOPSOIL AND SEED/SOD IN ACCORDANCE WITH LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.



AT 7'-0" IF IT FALLS WITHIN A WALKING PATH.





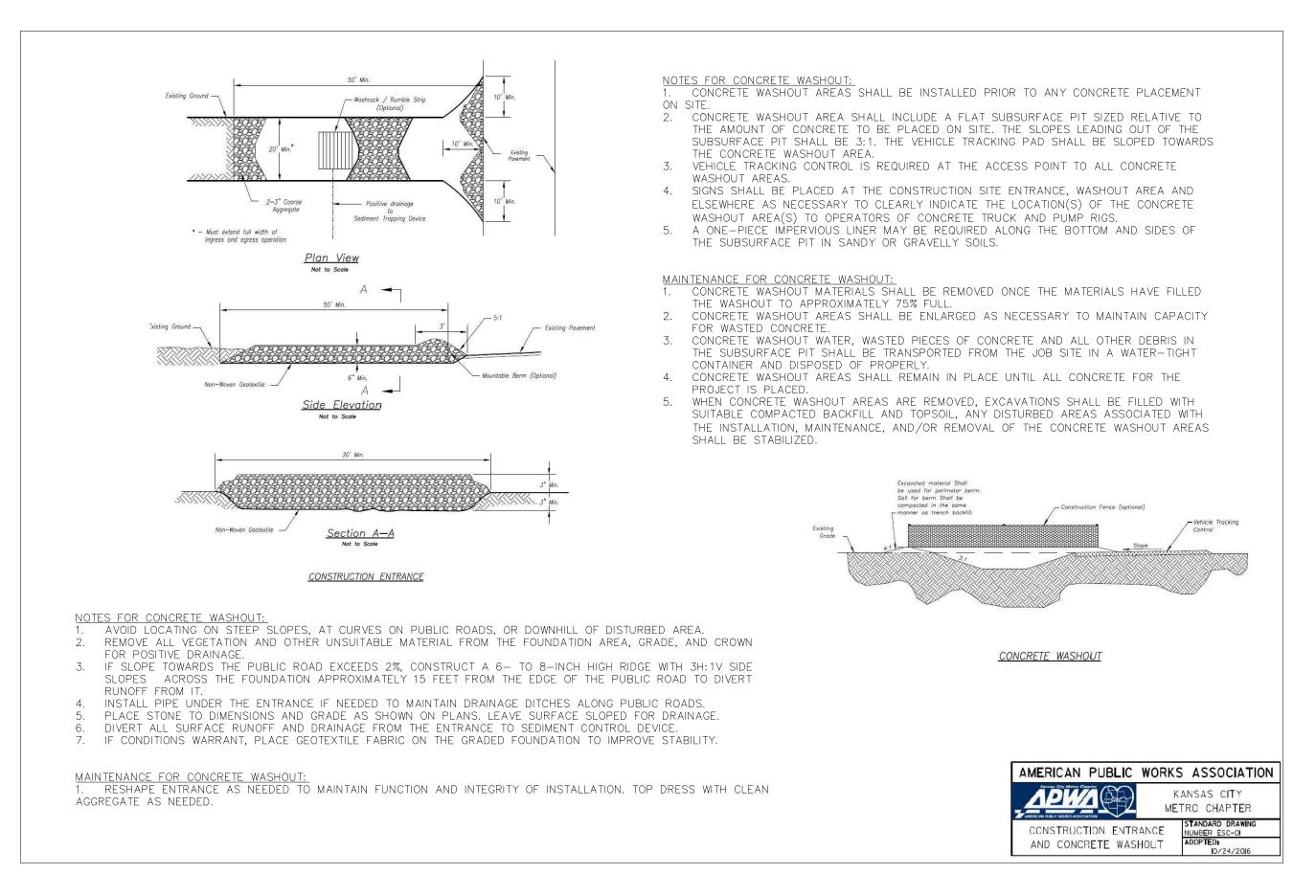
MARTIN T. ARLING ENGINEER MO # 2009002955

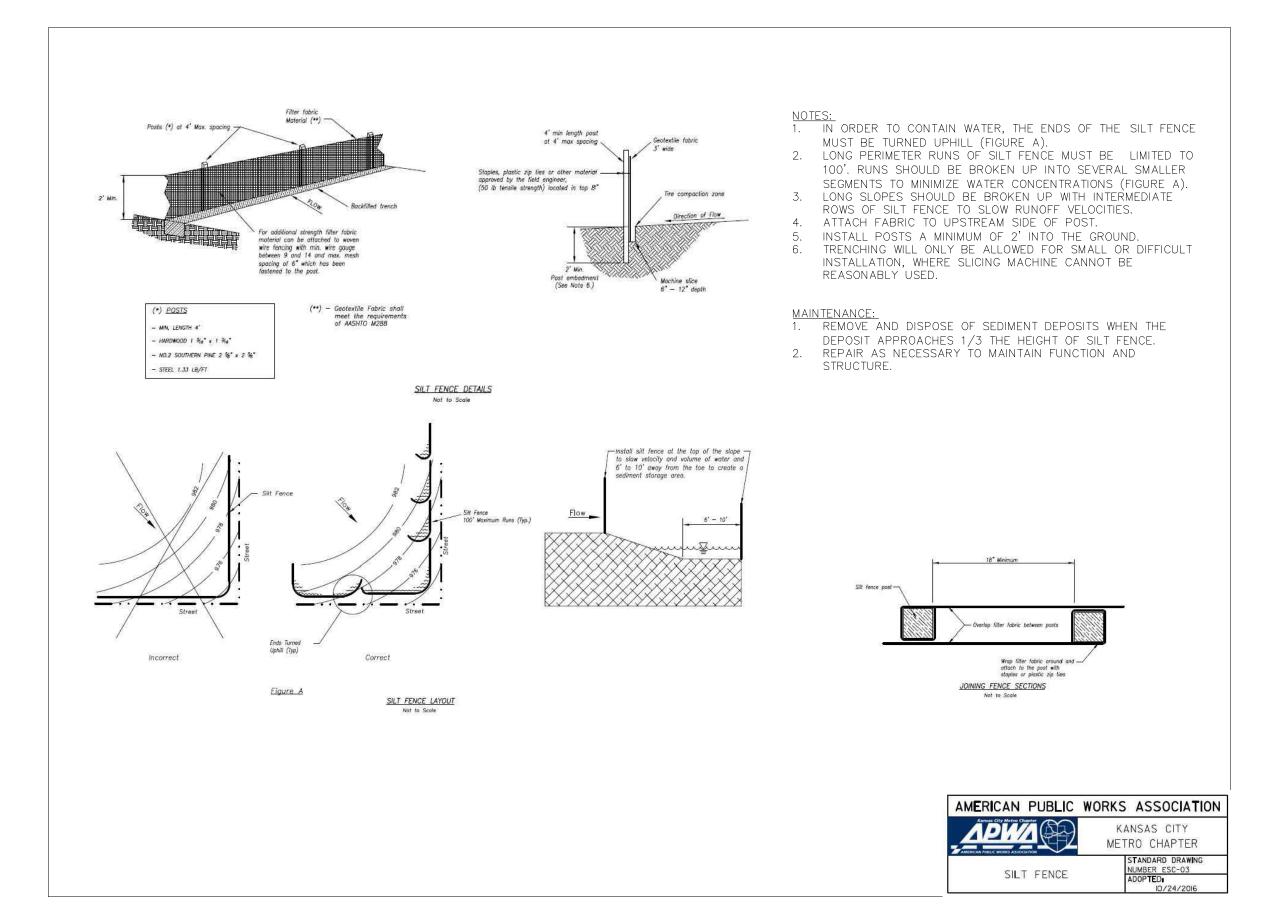
ENGINEERING

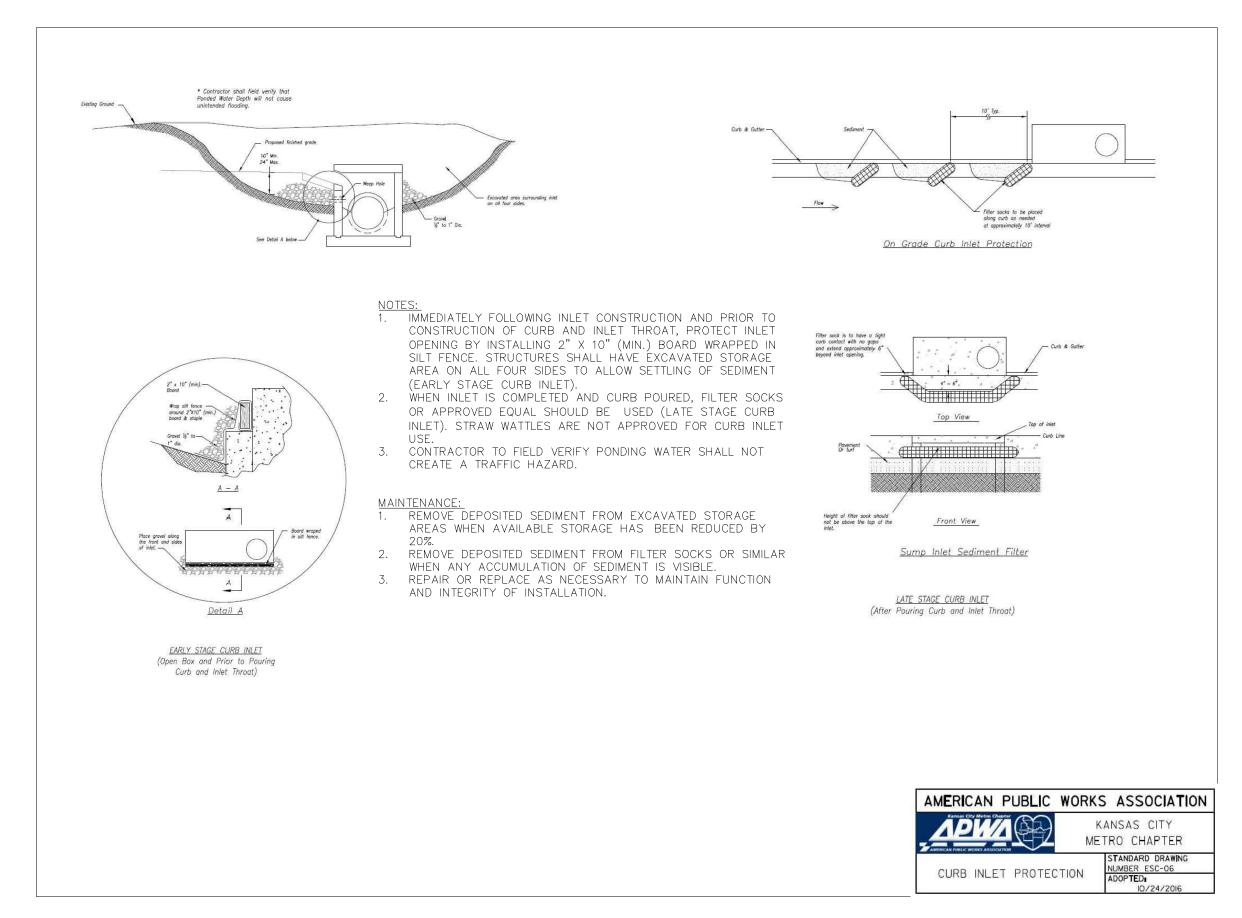
7 BREW 1410 N.E. DOUGLAS STREET LEE'S SUMMIT, MO. 64086 CONSTRUCTION F
DETAIL SHEET

B21D4397 DESIGNER DRAWN B MTA

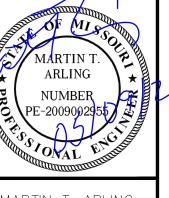
THIS DRAWING SHALL NOT BE LITHLIFED BY ANY PERSON FIRM OR CORPORATION IN WHOLF OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING INC







ARLING NUMBER



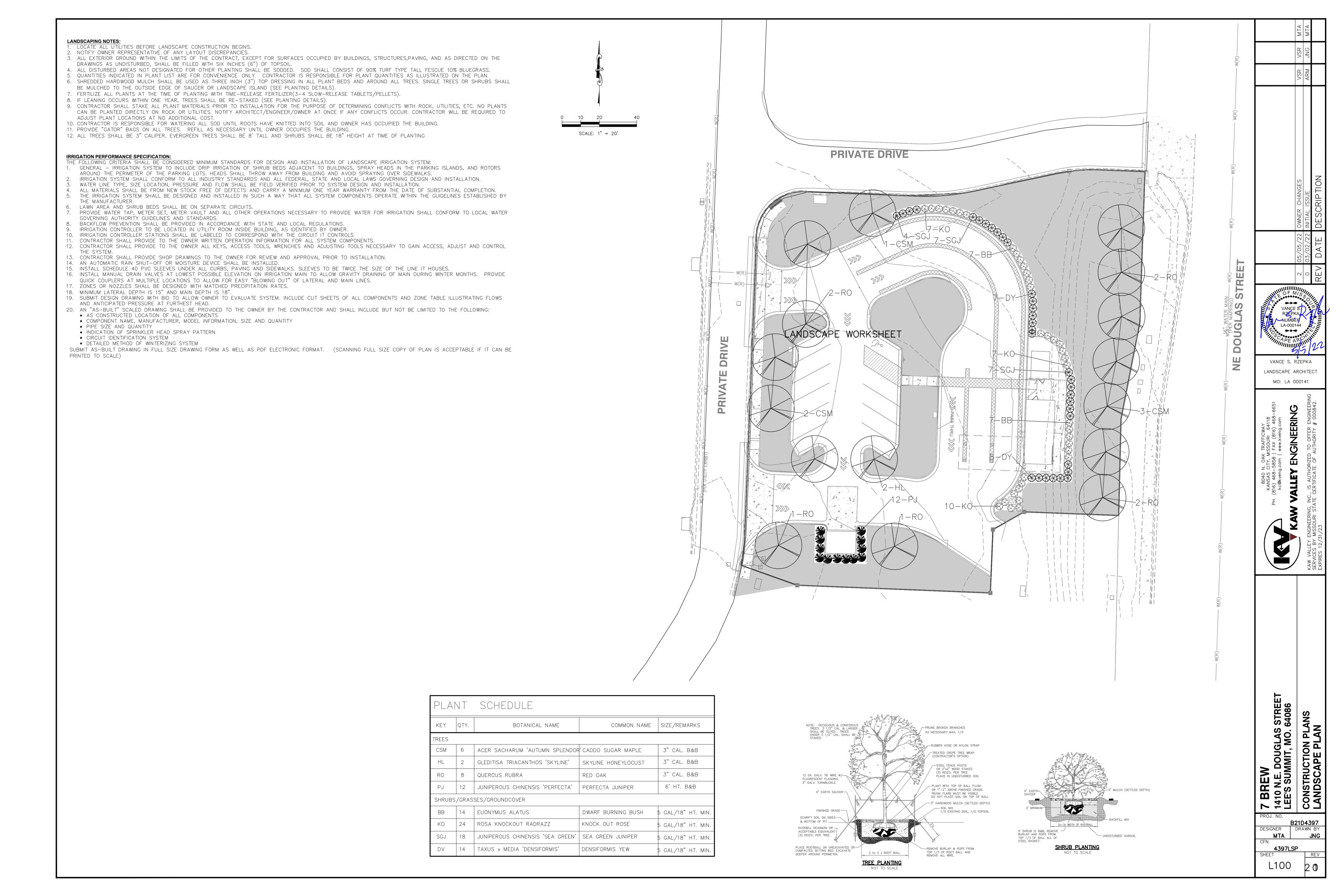
MARTIN T. ARLING ENGINEER MO # 2009002955

ENGINEERING

7 BREW 1410 N.E. DOUGLAS STREET LEE'S SUMMIT, MO. 64086 CONSTRUCTION F
DETAIL SHEET

MTA

B21D4397 DESIGNER DRAWN B



COLD-FORMED STEEL NOTES

PRODUCT IDENTIFICATION

THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS ARE USED IN THIS PACKAGE. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEED AISI STANDARDS ARE ACCEPTABLE

THE LAST TWO NUMBERS INDICATE THE STEEL THICKNESS

INSTALLATION SHALL BE IN ACCORDANCE WITH AISI STANDARD FOR COLD-FORMED STEEL FRAMING -GENERAL PROVISIONS

WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION. AXIALLY LOADED STUDS SHALL BE POSITIONED DIRECTLY UNDER JOIST BEARING POINTS WHENEVER

POSSIBLE STUDS SHALL NOT BE SPLICED PROVIDE MANUFACTURER'S STANDARD BRIDGING AS NOTED ON STUD TABLES (4' MAX U.N.O.).

PROVIDE DOUBLE STUDS, MINIMUM, AT ALL PARTITION ENDS, EACH SIDE OF OPENINGS, AND WHERE INDICATED ON DRAWINGS.

ALL NON LOAD-BEARING WALLS. MINIMUM TRACK SIZE SHALL MATCH STUD SIZE U.N.O. SEE STANDARD LIGHT GAGE DETAILS AND STUD CHARTS FOR ADDITIONAL INFORMATION. ALIGN WEB PUNCHOUTS IN STUD WALLS. WEB

AWAY FROM THE STUD FND MINIMUM YIELD STRENGTH FOR 18 AND 20 GA COLD-FORMED MEMBERS SHALL BE 33 KSL MINIMUM YIELD STRENGTH FOR 16 GA AND HEAVIER COLD-FORMED MEMBERS SHALL BE 50 KSI.

HEADERS AND BUILT-UP BEAMS SHALL BE FORMED

PUNCHOUTS MUST BE LOCATED A MINIMUM OF 10"

FROM UNPUNCHED MEMBERS. STUDS SHALL NOT BE NOTCHED, SPLICED, OR COPED WITHOUT WRITTEN APPROVAL OF ENGINEER. CUTTING OF STUDS SHALL BE DONE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER METHODS

OF CUTTING ARE NOT PERMITTED WITHOUT APPROVAL OF ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL STRUCTURAL COLD-FORMED FRAMING REQUIREMENTS. SEE SPECIFICATION SECTION 09260 FOR ADDITIONAL REQUIREMENTS FOR COLD-FORMED DRYWALL COMPONENTS ALL MATERIALS AND WORK SHALL CONFORM TO THE CODE LISTED IN THESE DRAWINGS THESE NOTES GIVE MINIMUM REQUIREMENTS

WHERE CONFLICTS ARISE BETWEEN THE CODE. THE

DRAWINGS, AND THE STRUCTURAL NOTES, THE MORE

ADDITIONAL COLD-FORMED STEEL NOTES

STRINGENT REQUIREMENT SHALL CONTROL.

CONTRACTOR SHALL PROVIDE LIGHT GAGE FRAMING SHOP DRAWING SUBMITTAL SUBMITTAL SHAL INCLUDE LIGHT GAGE FRAMING PLANS, DETAILS,

SECTIONS AND ACCESSORIES. LIMIT STUD/HEADER DEFLECTIONS TO L/600 FOR MEMBERS SUPPORTING BRICK VENEER AND L/360 FOR ALL OTHERS.

SUBMITTAL SHALL INCLUDE INTERIOR AND EXTERIOR STUDS AND CEILING/SOFFIT MEMBERS. COOR'D DEFLECTION TRACK AT NON-LOADING BEARING WALLS AND FIREPROOFING REQUIREMENTS W/ ARCH. TRACK (OR CLIPS) SHALL ALLOW 3/4" VERTICAL MOVEMENT UP OR DOWN.

PROVIDE DEFLECTION CLIPS AT TOP OF ALL EXTERIOR NON-LOAD BEARING JAMB MEMBERS PUNCHOUTS SHALL ALIGN AND SHALL NOT BE LOCATED WITHIN 10" OF BASE.

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE ITEMS NOTED IN THE TABLE ON THIS SHEET. TESTING SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER.

A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTION PROVIDER PRIOR TO THE FINAL INSPECTION.

IBO	CTABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VE	RIFICATION AND INSPECTION TASK	CONTINUOUS	PERIO
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	_	Х
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	_	Х

COMPACTED FILL MATERIALS VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

PERFORM CLASSIFICATION AND TESTING OF

ABBREVIATIONS A.B.= ANCHOR BOLT AMERICAN CONCRETE INSTITUTE

AISC= AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISI= AMERICAN IRON AND STEEL INSTITUTE ARCH= ARCHITECTURE/ARCHITECT ASTM= AMERICAN SOCIETY FOR TESTING AND MATERIALS A W = AFTER WELDING AWS= AMERICAN WELDING SOCIETY

CONCRETE NOTES

SLUMP:

SI UMP:

A615 GRADE 60

REINFORCING.

WITH ADHESIVES, ETC.

SHALL INCLUDE:

AIR CONTENT

REINFORCING UNO.

SLUMP

ASTM C260.

SHALL BE AS FOLLOWS:

HORIZONTAL APPLICATIONS

AIR-ENTRAINMENT:

CONCRETE FOR FOUNDATIONS, FOOTINGS AND

CONCRETE FOR EXTERIOR USES, SIDEWALKS,

SLABS ON GRADE SHALL BE AS FOLLOWS:

INTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS

28-DAY COMPRESSIVE STRENGTH: 3000 PSI

MAXIMUM WATER TO CEMENT RATIO: 0.52

RETAINING WALLS, BASEMENT WALLS, AND EXTERIOR

• 28-DAY COMPRESSIVE STRENGTH: 4000 PSI

AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO

MAXIMUM WATER TO CEMENT RATIO: 0.45

CONCRETE FOR ELEVATED SLABS ON METAL DECK

• 28-DAY COMPRESSIVE STRENGTH: 4000 PSI

MAXIMUM WATER TO CEMENT RATIO: 0.45

NO LIME SAND FINE AGGREGATE MAY BE USED IN

ALL REINFORCING STEEL SHALL CONFORM TO ASTM

A185. LAP FABRIC 9" ON SIDES AND ENDS. MAINTAIN

WELDED WIRE FABRIC SHALL CONFORM TO ASTM

WIRE 1" TO 2" BELOW TOP SURFACE OF SLABS ON

GRADE. PROVIDE CHAIRS, BOLSTERS OR OTHER

IF ADDITIONAL FLOWABILITY IS REQUIRED FOR

PLACEMENT OF ANY CONCRETE MIX, A WATER-

REDUCING ADDITIVE CONFORMING TO ASTM C494,

WATER MAY BE ADDED TO THE MIX AT THE SITE.

SLUMP FOR CONCRETE CONTAINING WATER-

IS ADDED TO CONCRETE WITH A 2"-4" SLUMP.

REDUCING OR HIGH-RANGE WATER-REDUCING

TYPE A, D, E OR F SHALL BE USED. NO ADDITIONAL

ADMIXTURE SHALL NOT EXCEED 8" AFTER ADMIXTURE

INTERIOR SLABS SHALL HAVE SMOOTH TROWFI FD

FINISH AND EXTERIOR SLABS SHALL HAVE LIGHT

CURING COMPOUND COMPLYING WITH ASTM C309

APPLIED TO SURFACE. EXCEPTIONS ARE WHERE

FLOOR FINISHES REQUIRE SCRATCH FINISH AND

WHERE CURING COMPOUNDS ARE NOT COMPATIBLE

CONTRACTOR SHALL COORDINATE ALL CONCRETE

SEALERS, CURING COMPOUNDS, ETC TO ENSURE

COMPATIBILITY WITH FLOORING ADHESIVES FOR

FLOORING INDICATED IN THE FLOOR PLANS AND

TESTING OF FRESH CONCRETE SHALL BE DONE BY A

QUALIFIED TESTING LABORATORY RETAINED BY THE

OWNER AND APPROVED BY THE ENGINEER. TESTING

NOTE ANY WATER OR ADMIXTURES ADDED ON-

SLUMP AND ONE AIR CONTENT TEST FOR EACH DAYS

POUR AND ADDITIONAL TESTS WHEN THE CONCRETE

CONSISTENCY SEEMS TO HAVE CHANGED IN THE

C173 AND C231. PERFORM TEMPERATURE TESTS

WHERE FOOTINGS, WALLS, OR OTHER STRUCTURA

CORNER BARS WITH REQUIRED LAP LENGTHS TO

PROVIDE CONTINUITY OF HORIZONTAL STEEL

ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE

OPINION OF THE INSPECTOR. REFER TO ASTM C143,

HOURLY WHEN THE AMBIENT AIR TEMPERATURE IS

BELOW 40 DEGREES F OR ABOVE 80 DEGREES F AND

FLOOR FINISH PLANS AS APPLICABLE.

CONCRETE TEMPERATURE

28 DAY COMPRESSIVE STRENGTH

REFER TO ASTM C172 AND C94. PERFORM ONE

BROOM FINISH, UNO. ALL SLABS SHALL HAVE A

APPROVED MEANS TO PROPERLY LOCATE

CONCRETE EXPOSED TO WEATHER, VIEW, OR IN

BAR= REBAR B.O.= BOTTOM OF B.O.A.= BACK OF ANGLE B.O.F. = BOTTOM OF FOOTING 3. B.O.S.= BOTTOM OF STEEL BRG= BEARING BTM= BOTTOM

. CANT= CANTILEVERED C.I.P.= CAST-IN-PLACE . C.J.P.= COMPLETE JOINT PENETRATION WELD CENTERLINE . CLR= CLEAR

1. CMU= CONCRETE MASONRY UNIT . COL= COLUMN CONC= CONCRETE CONN= CONNECTION 5 CONT = CONTINUOUS b. D.B.= DECK BEARING

. D.B.A.= DEFORMED BAR ANCHOR 8. D.E.= DECK EDGE 9. DIA= DIAMETER 0. DL= DEAD LOAD DTL= **DETAIL** 2. DWG= **DRAWING**

EXISTING 6. E.F.= **EACH FACE ELEVATION** 6. EL= EXPANDED POLYSTYRENE . EPS= 38. EQ= EQUAL 39. E.W.= EACH WAY FXTFRIOR

7 ID=

9. INT=

0. J.B.=

68. LL=

7. PT=

103. SDI=

105. SJI=

104. SIM=

106 SI =

123 W=

Х

10. EXT= CONCRETE COMPRESSIVE STRENGTH 12 FF= FINISHED FLOOR 3. FND= FOUNDATION 44. F.O.W.= FACE OF WALL 45. F.S.= FAR SIDE 46. FTG= FOOTING 47. F.V.= FIELD VERIFY 8. GA= GAGE / GAUGE 19. GALV= GALVANIZED . G.B.= GRADE BEAM

. G.C.= GENERAL CONTRACTOR 2. (H)= 3. Ĥ&L= HIGH & LOW 4. H.A.S.= HEADED ANCHOR STUD HORIZ= HORIZONTAL

6. IBC= INTERNATIONAL BUILDING CODE INSIDE DIAMETER 8. INFO= INFORMATION INTERIOR JOIST BEARING 31. J.B.E.= JOIST BEARING ELEVATION 1000 POUNDS

2. KIP= 33. KSI= KIPS PER SQUARE INCH 64. (L)= LENGTH 7. LGSF= LIGHT-GAGE STEEL FRAMING LIVE LOAD 69. LLH= LONG LEG HORIZONTAL O. LLV= LONG LEG VERTICAL LONG= LONGITUDINAL

ONE TEMPERATURE TEST FOR EACH SET OF 2. L.P.= LAYOUT POINT COMPRESSIVE-STRENGTH SPECIMENS REFER TO 3. LVL= LAMINATED VENEER LUMBER ASTM C1064. PERFORM ONE COMPRESSIVE-4. LW= LIGHTWEIG 5. MAX= MAXIMUM STRENGTH TEST FOR EACH DAYS POUR AND AN LIGHTWFIGHT ADDITIONAL TEST FOR EACH 50 CUBIC YARD MORE MECH= MECHANICAL THAN THE FIRST 25 CUBIC YARD. TEST ONE MEP= MECHANICAL, ELECTRICAL, PLUMBING SPECIMEN AT 7 DAYS AND 2 SPECIMENS AT 28 DAYS. 8. MFR= MANUFACTURER REFER TO ASTM C31 AND C39. 9. MIL= THOUSANDS OF AN INCH CONCRETE FOR GROUTING MASONRY UNITS IS SPECIFIED IN CONCRETE MASONRY UNIT NOTES O. MIN= MINIMUM

1. MISC= MISCELLANEOUS 2. MTL= 33. N.I.C.= NOT IN CONTRACT 4. N.S.= NEAR SIDE 35. N.T.S.= NOT TO SCALE 6. N.W.= NORMAL WEIGHT

PRESERVATIVE PRESSURE TREATED

POUNDS PER SQUARE INCH

93. PLF= POUNDS PER LINEAR FOOT

8. REINF= REINFORCING

100. RTU= ROOF TOP UNIT

SIMILAR

107. S.O.G.= SLAB ON GRADE

108. SPECS= SPECIFICATIONS

112. T&B= TOP AND BOTTOM

114. T.O.F. TOP OF FOOTING

16. T.O.S.= TOP OF STEEL

I 19. UL= ULTIMATE LOAD

WIDTH

122. VLD= VERTICAL LEG DOWN

126. WWF= WELDED WIRE FABRIC

POST-INSTALLED ANCHOR NOTES

120. U.N.O.= UNLESS NOTED OTHERWISE

117. T.O.W.= TOP OF WALL

118. TYP= TYPICAL

121. VERT= VERTICAL

124 WI = WIND I OAD

127. (#)= QUANTITY

125. W.P.= WORK POINT

115. T.O.P.= TOP OF PEDESTAL

109. STD= STANDARD

110. STL= STEEL

113. T.O.= TOP OF

SNOW LOAD

THICKNESS

101. S.C.= SLIP CRITICAL

102. SCH= SCHEDULE

99. REQ= REQUIRE

5. PSF= POUNDS PER SQUARE FOOT

POST TENSIONED

STEEL DECK INSTITUTE

STEEL JOIST INSTITUTE

PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR **BOLTS AND LOCATE HORIZONTAL REINFORCEMENT** . O.C.= ON CENTER O.D.= OUTSIDE DIAMETER TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, 89. OPP= OPPOSITE / OPPOSITE HAND PROVIDE TEMPORARY SHORING AND BRACING OF ALL) PAF= POWDER ACTUATED FASTENER STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL 1 P C F = POUNDS PFR CUBIC FOOT 92. PEMB= PRE-ENGINEERED METAL BUILDING CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH

> AND ALL PERMANENT BRACING ELEMENTS ARE . UNLESS NOTED OTHERWISE, PROVIDE CONSTRUCTION JOINTS IN SLABS ON GRADE AT APPROXIMATELY 50 FEET IN EACH DIRECTION. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT APPROXIMATELY 10 FEET ON CENTER IN EACH DIRECTION. JOINTS SHALL FORM NEARLY SQUARE

SHAPES. CONTRACTOR SHALL COORDINATE JOINT LOCATIONS WITH TILE LAYOUT AS SHOWN IN THE FLOOR PLANS AND FLOOR FINISH PLANS AS APPLICABLE. BE ANCHORED TO CAST IN PLACE OR PRECAST

SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR APPROVAL. SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING OUT AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME, WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME. SEVERAL SAWS MAY BE REQUIRED TO PROVIDE JOINTS IN TIME TO PREVENT

PRACTICE FOR PROPER JOINTING TECHNIQUES. DETAILING, MATERIALS AND INSTALLATION OF SET FORTH BY CRSI AND THE AMERICAN CONCRETE INSTITUTE AND THE APPLICABLE BUILDING CODE. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF THE REINFORCED CONCRETE

LAYOUT AND DIMENSIONS OF REINFORCING INCLUDING ANY OPENINGS, CONVENTIONAL REINFORCEMENT DETAILS, CONNECTION DETAILS, PROCEDURES AND SEQUENCES ETC. TO ACI 301, WHEN PLACING CONCRETE IN COLD WEATHER, REFER TO ACI 306.1.

LENGTH, DRILLING METHOD, HOLE CLEANING PROCEDURES, AND ANCHOR INSTALLATION AND SETTING PROCEDURES. ADHESIVE ANCHORS SHALL BE INSTALLED BY AN

SPECIAL MOMENT FRAMES, AND BOUNDARY

ELEMENTS OF SPECIAL STRUCTURAL WALLS

OF CONCRETE AND SHEAR REINFORCEMENT

c. SHEAR REINFORCEMENT

d. OTHER REINFORCING STEEL

CERTIFIED BY ACI AND TRAINED BY THE MANUFACTURER. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

ADHESIVE ANCHOR INSTALLER WHO HAS BEEN

CONTINUOUS INSPECTIONS ARE REQUIRED FOR POST

INSTALLED ANCHOR BOLTS INCLUDING TYPE, SIZE,

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | STANDARD MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM APPLICABLE TO ASTM STANDARDS SPECIFIED IN THE ASTM MATERIAL APPROVED CONSTRUCTION DOCUMENTS. STANDARDS B. MANUFACTURER'S CERTIFIED TEST REPORTS INSPECTION OF WELDING: A. COLD-FORMED STEEL DECK: a. FLOOR AND ROOF DECK WELDS. AWS D1.3 X _ a. VERIFICATION OF WELDABILITY OF REINF STEEL OTHER THAN ASTM A 706. AND AXIAL FORCES IN INTERMEDIATE AND AWS D1.4

GENERAL FOUNDATION & SLAB ON GRADE

IN AREA OF THE STRUCTURE, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT AT THIS SITE EXHIBITING LIQUID LIMIT VALUES BELOW 50 AND PLASTIC INDEX VALUES BELOW 10. ROCKS GREATER THAN 6 IN. SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BASED ON STANDARD PROCTOR DENSITIES (ASTM D-698). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE

WITH REQUIREMENTS. TESTING OF CONTROLLED STRUCTURAL FILL SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER. SEE STRUCTURAL

DRAWINGS FOR REQUIRED TESTING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH INSPECTOR. AFTER STRIPPING SITE AND PRIOR TO

PLACEMENT OF ANY FILL, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. INSPECTION SHALL INCLUDE PROOF ROLLING SITE WITH HEAVY EQUIPMENT PROVIDED BY THE CONTRACTOR. AFTER EXCAVATION FOR FOUNDATIONS AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT OR CONCRETE, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. WHEN SOIL OF INADEQUATE STRENGTH IS NOTED.

CONTRACTOR SHALL FURTHER DEEPEN **EXCAVATIONS UNTIL SUITABLE BEARING** CONDITIONS ARE VERIFIED BY TESTING OVEREXCAVATIONS MAY BE BACKFILLED WITH SUITABLE COMPACTED ENGINEERED FILL SUITABLE GRANULAR BASE, OR STRUCTURAL CONCRETE BACKFILL. EXTERIOR FOOTINGS SHALL BEAR AT MIN. DEPTHS

AS NOTED IN FOOTING SECTIONS AND PLANS, 30" BELOW EXTERIOR FINISH GRADE, OR INTO APPROVED BEARING STRATA, WHICHEVER DEPTH IS GREATER. NOTE THAT FOOTING BEARING ELEVATIONS GIVEN ON THE PLANS ARE ESTIMATED DEPTHS ONLY. WHERE UNSUITABLE SOIL IS **ENCOUNTERED, FOOTING DEPTHS MAY VARY EXCAVATION FOR FOOTINGS SHALL BE CUT TO** ACCURATE SIZE AND DIMENSIONS AS SHOWN ON

PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE CONTINUOUS FOOTINGS AND INDIVIDUAL FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE SOIL BEARING OF

CONTINUOUS FOOTINGS: 1500 PSF

INDIVIDUAL FOOTINGS: 1500 PSF FOR EITHER NATURALLY OCCURRING SOIL OR COMPACTED ENGINEERED FILL. TYPICAL SLABS ON GRADE THICKNESS: 4" THICK NORMAL WEIGHT

CONCRETE REINFORCING: 6x6-W1.4xW1.4 WELDED WIRE FABRIC (WWF) VAPOR BARRIER: 15 MIL., (ASTM E1745 CLASS A) SUBGRADE: A MINIMUM OF 4" OF FREE-

DRAINING GRANULAR BASE, COMPACTED PER RECOMMENDATIONS OF GEOTECHNICAL FNGINFFR MAINTAIN REINFORCING 1"-2" BELOW TOP SURFACE OF SLABS ON GRADE. PROVIDE BOLSTERS, CHAIRS OR OTHER MEANS APPROVED IN WRITING BY THE ENGINEER TO PROPERLY LOCATE REINFORCING. GRANULAR BASE SHALL BE #57 STONE OR APPROVED **EQUAL UNLESS OTHERWISE INDICATED IN**

GEOTECHNICAL REPORT. REFER TO ASTM D448 FOR GRADATION. IN SOME CASES 1.5 POUNDS (MIN) OF POLYPROPYLENE FIBRILLATED FIBERS PER CUBIC YARD REINFORCING MAY BE SUBSTITUTED FOR THE WWF REINFORCING ANY VISIBLE FIBERS REMAINING AFTER CONCRETE HAS CURED SHALL BE TORCHED OFF THIS SUBSTITUTION IS NOT ALWAYS APPROPRIATE AND SHALL NOT BE MADE

WITHOUT WRITTEN APPROVAL OF THE DRAINAGE FILL SHALL BE A FREE-DRAINING GRANULAR MATERIAL. USE #57 STONE OR EQUAL REFER TO ASTM D448 FOR GRADATION. CONTRACTOR IS RESPONSIBLE TO MAINTAIN

EXCAVATIONS AND BACKFILL MATERIALS AT AN APPROPRIATE MOISTURE CONTENT FOR PROPER SOIL BEARING CAPACITY AND COMPACTION. CONTRACTOR SHALL COORDINATE WITH THE CIVIL SITE DRAWINGS TO DETERMINE WHETHER FOUNDATION DRAINS AROUND PERIMETER OF BUILDING AND/OR UNDER THE SLAB-ON-GRADE

SHALL BE REQUIRED AND. IF SO, SHALL RUN TO

AT RETAINING WALLS FILTER FABRIC SHALL BE

PLACED AT THE INTERFACE BETWEEN THE

DRAINAGE FILL AND EITHER NATURAL OR

DAYLIGHT OR EXTENDED TO THE STORM SEWER

COMPACTED SUBGRADE. PERFORATED DRAINS

SHALL ALSO BE WRAPPED WITH FILTER FABRIC.

COMPONENTS AND CLADDING WIND PRESSURE

BUILDING ELEMENTS SHALL BE DESIGNED FOR THE

APPROPRIATE COMPONENTS AND CLADDING WIND

PRESSURES GIVEN IN THE TABLES BELOW BASED

AREA. PRESSURES PROVIDED ARE ULTIMATE AND

ZONE 2, 3 AND 5 PRESSURES SHALL BE APPLIED

WITHIN 11'-6" OF ALL WALL AND ROOF EDGES AND

CORNERS PER ASCE 7-10 FIGURES 30.4-1 & 30.4-2A.

ELEMENTS WITH TRIBUTARY AREAS GREATER THAN

ROOF C&C PRESSURES

GROSS UPLIFT

ZONE 1

ZONE 3

NET UPLIFT

ZONE 1 27 PSF

ZONE 2 32 PSF

ZONE 3 32 PSF

ZONE 2 49 PSF

ZONE 1 24 PSF

ZONE 2 29 PSF

ZONE 2 47 PSF

WALL C&C PRESSURES

PRESSURE

41 PSF

39 PSF

37 PSF

31 PSF

ZONE 3 29 PSF

29 PSF

73 PSF

PRESSURE

50 PSF

47 PSF

42 PSF

31 PSF

700 SQUARE FEET SHALL BE PERMITTED TO BE

DESIGNED USING THE PROVISIONS FOR MWFRS.

OPEN WEB

JOISTS

METAL DECK

OPEN WEB

JOISTS

METAL DECK

ACI 318:

SECTION 3.5.2

ON THE ELEMENT'S ZONE AND EFFECTIVE WIND

WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO CONCRETE ELEMENTS USING EPOXY ADHESIVES. USE ANCHORAGE SYSTEM EQUAL TO "HILTI" HIT RE 500 INJECTION ADHESIVE. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS. ALTERNATE ANCHORAGE

SHRINKAGE CRACKING. PROPER JOINTING OF SLAB IS CRITICAL. REFER TO ACI MANUAL OF CONCRETE

CONCRETE REINFORCING STEEL SHALL MEET REQ. AS

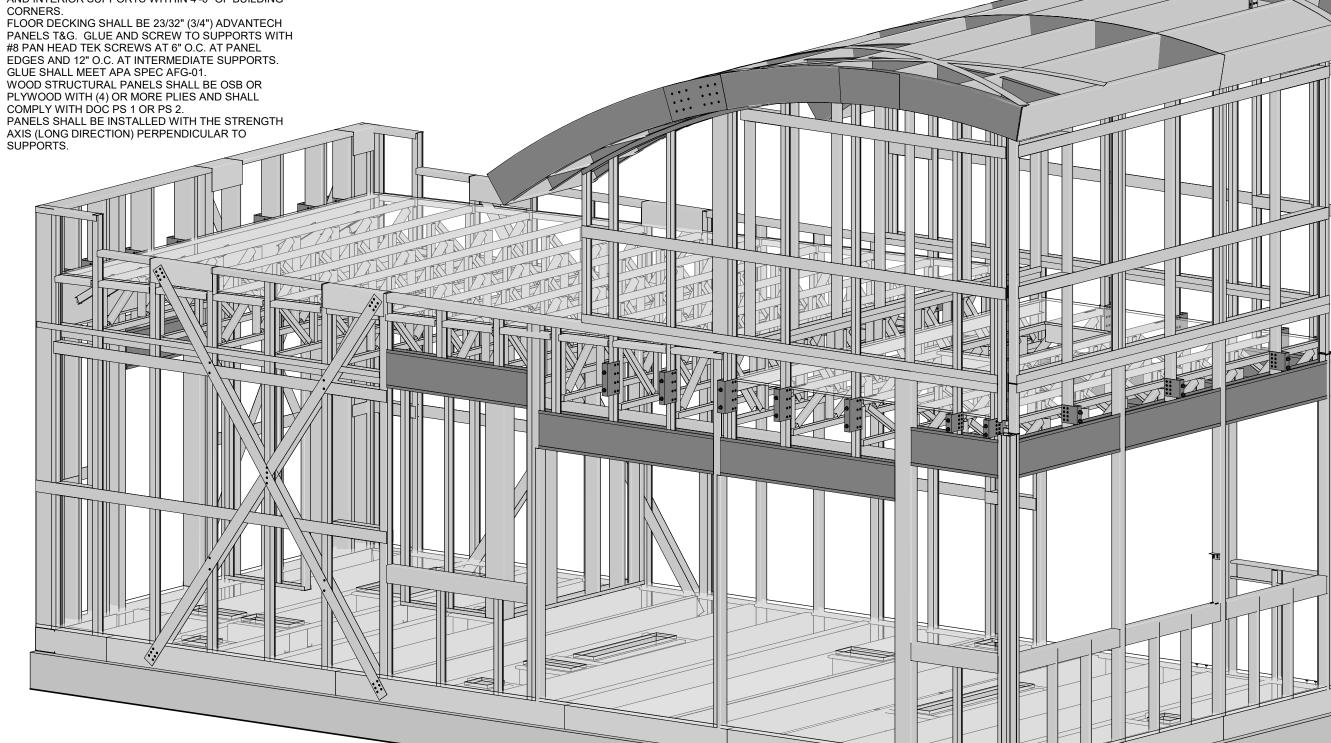
ELEMENTS. SHOP DRAWINGS SHALL INCLUDE WHEN PLACING CONCRETE IN HOT WEATHER, REFER

WOOD SHEATHING & DECKING NOTES ANCHORED NOTES (NO SPECS, NO GEOTECH) TO LIGHT GAUGE

TYPICAL WALL SHEATHING SHALL BE 7/16" (1/2") APA RATED 24/16 STRUCTURAL 1 EXPOSURE 1 PANÉLS. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. PROVIDE LIGHT GAUGE BLOCKING AT ALL PANEL EDGES. SEE SHEAR WALL SCHEDULE FOR REQUIREMENTS AT SHEAR WALLS. PANELS. "H" CLIPS MAY BE USED AT THE

ROOF DECKING SHALL BE 19/32" (5/8") STRUCTURAL EXPOSURE I APA RATED 40/20 TONGUE AND GROOVE CONTRACTOR'S OPTION IN LIEU OF T&G. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR SUPPORTS. REDUCE SPACING TO 4" O.C. AT EDGES AND INTERIOR SUPPORTS WITHIN 4'-0" OF BUILDING FLOOR DECKING SHALL BE 23/32" (3/4") ADVANTECH PANELS T&G. GLUE AND SCREW TO SUPPORTS WITH

#8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. GLUE SHALL MEET APA SPEC AFG-01. WOOD STRUCTURAL PANELS SHALL BE OSB OR PLYWOOD WITH (4) OR MORE PLIES AND SHALL



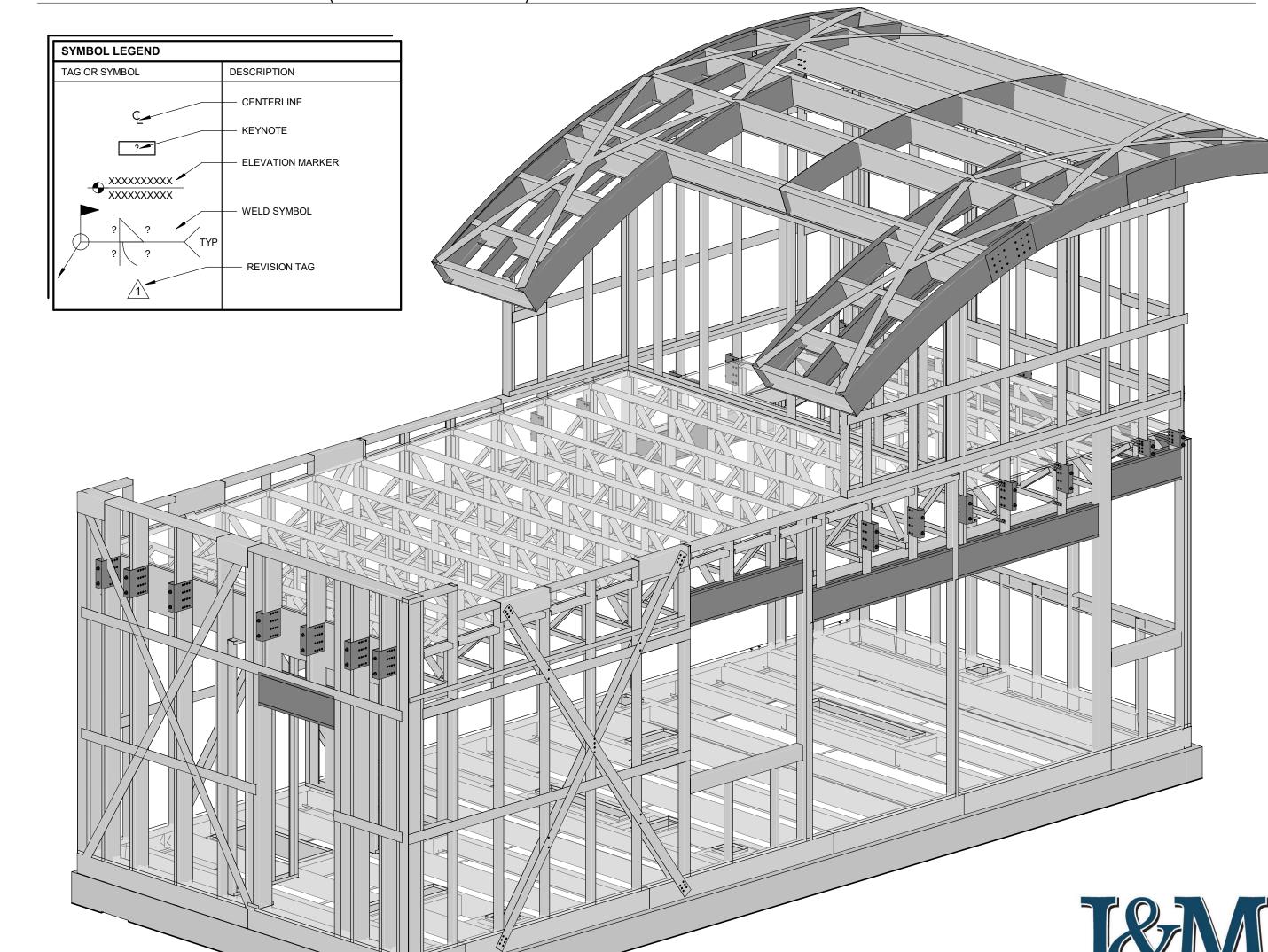
ISOMETRIC VIEWS FOR REFERENCE ONLY

BUILDING SUPPLIER / ERECTOR

CREATIVE MODULAR CONSTRUCTION

ISOMETRIC VIEW FRONT SIDE (MODULAR BUILDING)

ISOMETRIC VIEW BACK SIDE (MODULAR BUILDING)



CHARLES MILLEI NUMBER E-29518 **ENGINEER OF RECORD:**

JOHN C. MILLER MO COA - E-2011011004

PROJECT NUMBER: 22033 7BLS

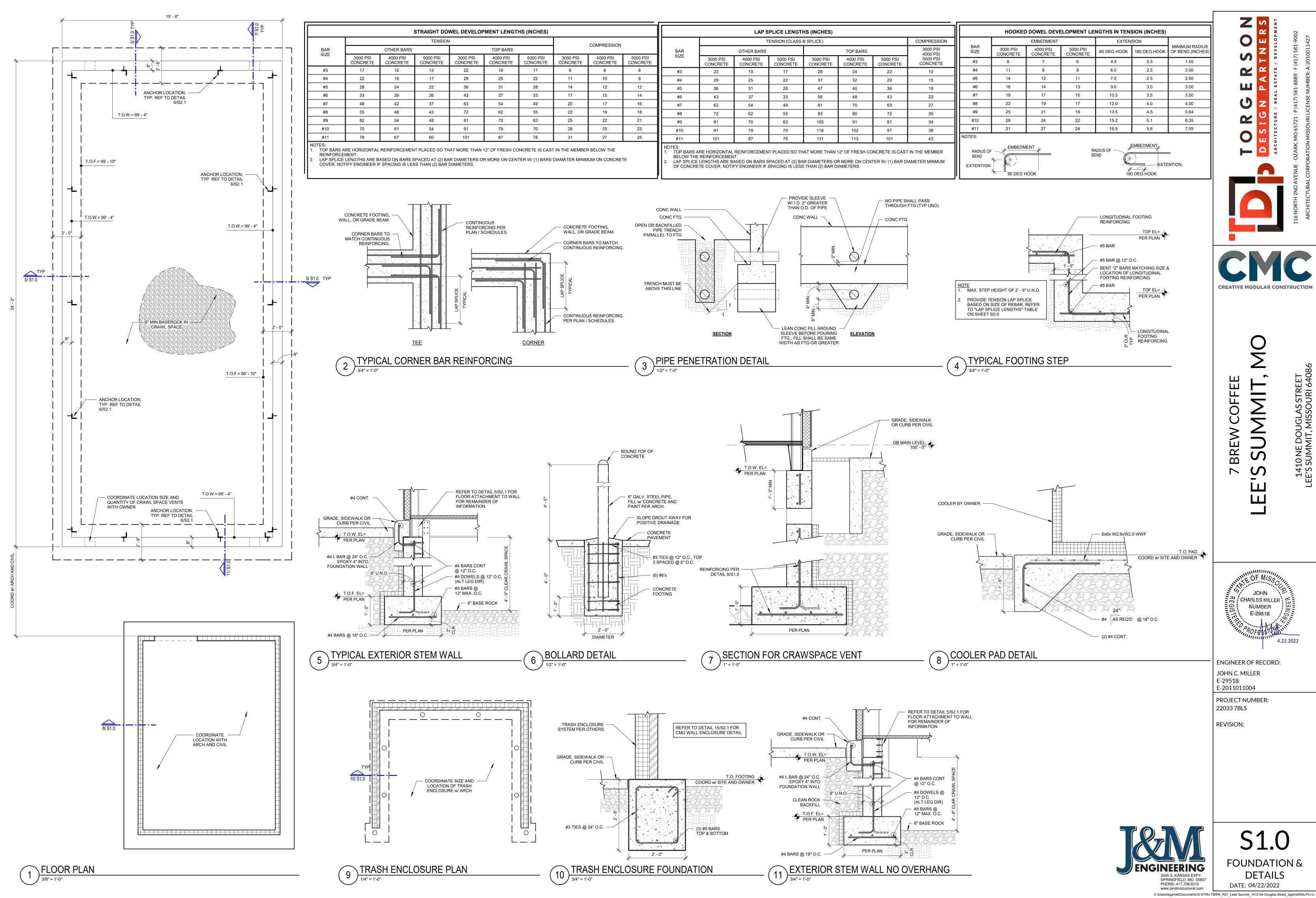
REVISION:

DATE: 04/22/2022

SCHEDULE - SPECIAL INSPECTIONS

GENERAL NOTES

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CREATIVE MODULAR CONSTRUCTION

CHARLES MILLER NUMBER E-29518 4.22.2022

ENGINEER OF RECORD:

PROJECT NUMBER:

MECHANICAL EQUIPMENT WEIGHTS AND LOCATIONS ARE ESTIMATED ONLY. COORDINATE ALL RTU EQUIPMENT LOCATIONS AND CURBS WITH ONLY. COORDINATE ALL RTU EQUIPMENT LOCATIONS AND CURBS WITH MEP AND ARCH.

2. COORDINATE ROOF OPENINGS WITH MEP AND ARCH. PROVIDE SUPPLEMENTAL FRAMING PER NOTES AND DETAILS AT OPENINGS.

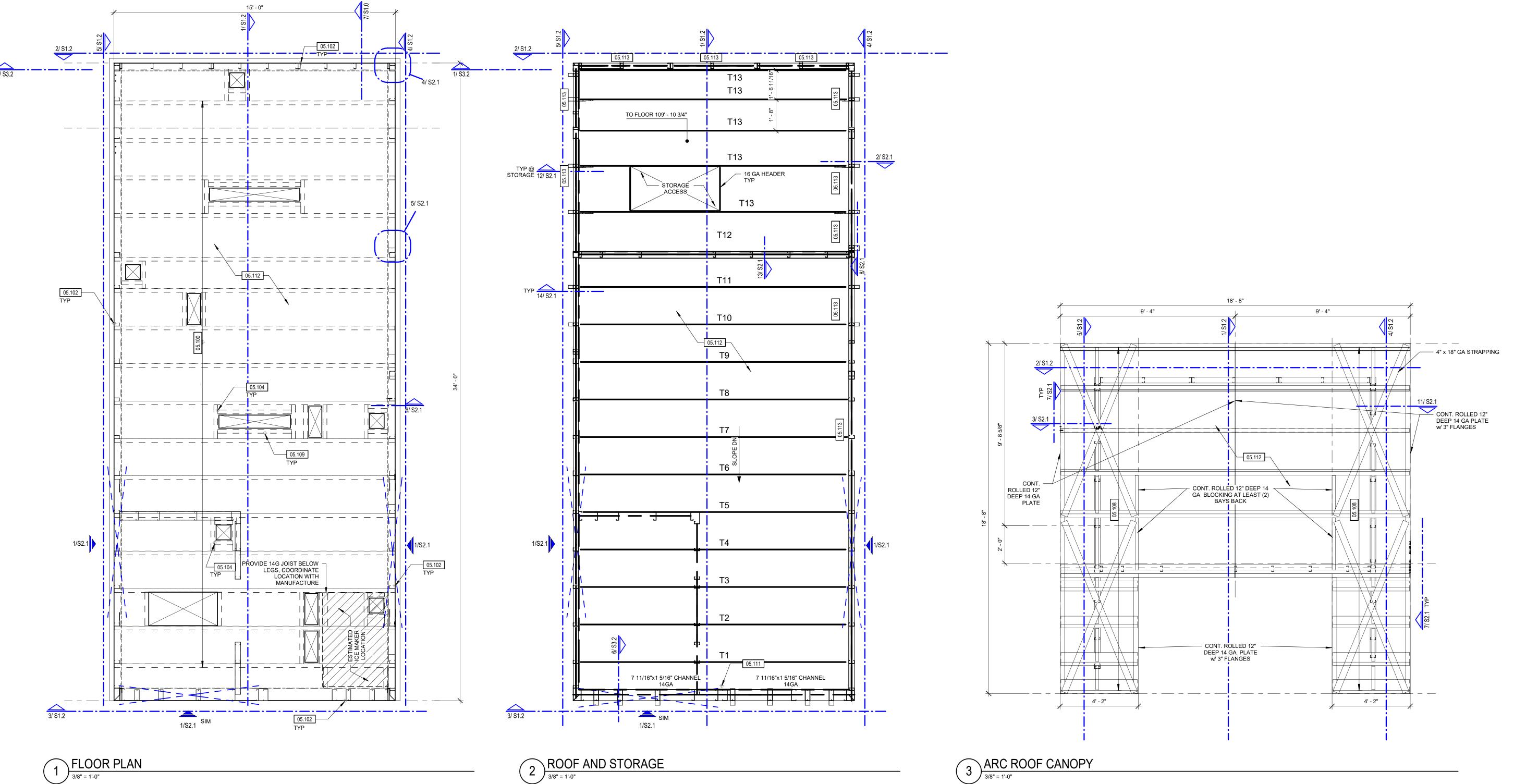
3. MECHANICAL HANGERS AND OTHER ITEMS SUPPORTED FROM TRUSS FRAMING ARE TO BE SUPPORTED AT PANEL POINTS ONLY.

4. PROVIDE (2) 3/4" BOLTS AT EACH LIFTING POINT LOCATION.

KEYNOTE	LEGEND
KEYNOTE	DESCRIPTION
05.100	7.840" x 2 1/2" 14 GA FLOOR JOIST SPACING @ 24" O.C. MAX.
05.102	16 GA STUD WITH A TOP AND BOTTOM 16 GA TRACK WITH 2" VERTICAL LEGS.
05.104	12 GA CLIP.
05.108	12" x 2 1/2" 14 GA ROOF JOIST SPACED @ 24" O.C. MAX.
05.109	PROVIDE FLOOR JOIST BOX FRAME AT ALL OPENINGS, MATCH GAFLOOR JOIST.
05.111	18 1/8" x 2 1/2" 14 GA JOIST, @ ROOF DECK BEARING.
05.112	ALL EXACT MEMBER SIZES PER MODULAR BUILDING SUPPLIERS ENGINEERING.

05.113 HEADER PER MODULAR BUILDING SUPPLIERS ENGINEERING.

THESE DRAWINGS INDICATE THE GENERAL REQUIREMENTS FOR A CUSTOM FABRICATED STRUCTURAL SYSTEM, BY CREATIVE MODULAR CONSTRUCTION





SPRINGFIELD, MO 65807 PHONE: 417.708.9315

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S1.1 FRAMING PLANS

JOHN

4.22.2022

CHARLES MILLER NUMBER E-29518

ENGINEER OF RECORD:

JOHN C. MILLER

PROJECT NUMBER:

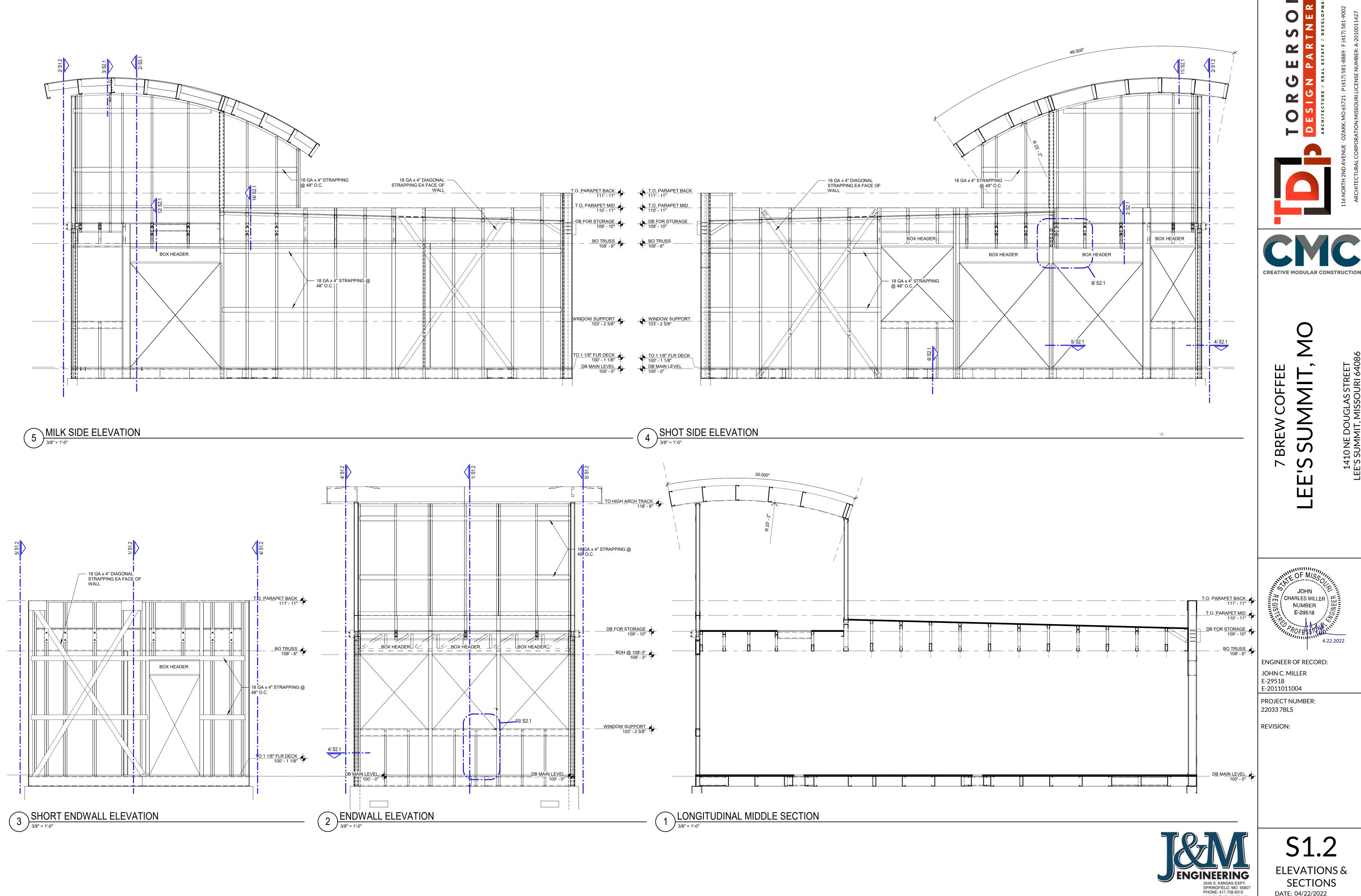
E-29518 E-2011011004

22033 7BLS

REVISION:

DATE: 04/22/2022

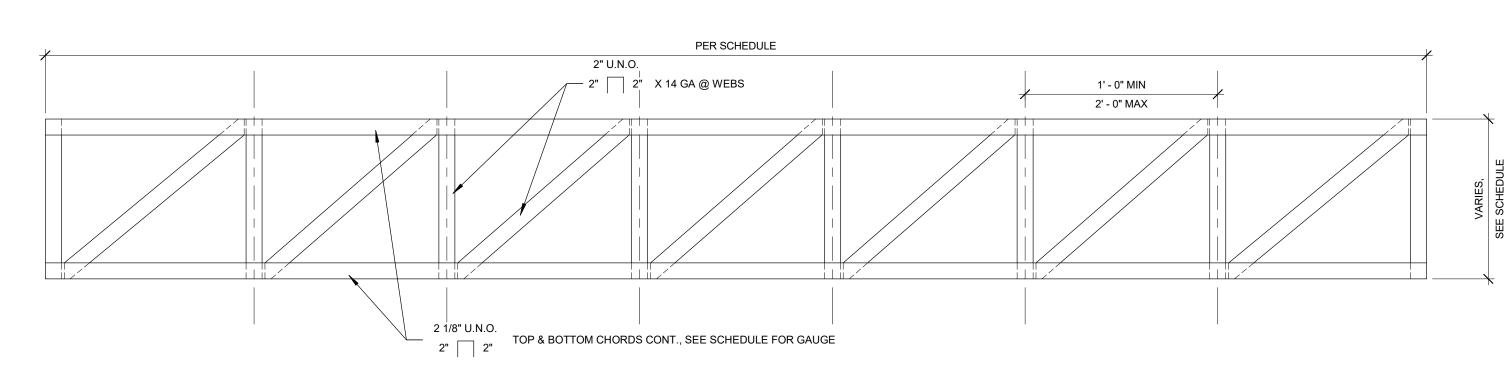
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SECTIONS DATE: 04/22/2022

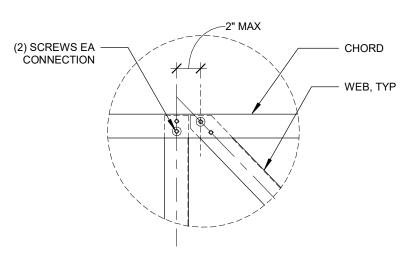
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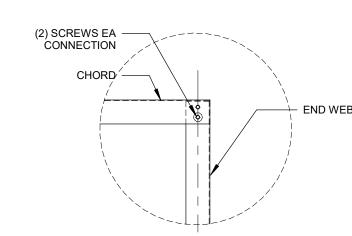
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CHORD GAUGE WEB WIDTH TRUSS DEPTH LENGTH 14' - 4 5/8" 14' - 4 5/8" 19 3/16" 19 13/16" 14' - 4 5/8" 14' - 4 5/8" 14' - 4 5/8" 20 7/16" 21 1/16" 14' - 4 5/8" 21 11/16" T7 T8 T9 T10 T11 T12 T13 14' - 4 5/8" 14' - 4 5/8" 14' - 4 5/8" 22 5/16" 22 15/16" 23 1/2" 24 1/8" 24 3/4" 25 3/8" 16" 14' - 4 5/8" 14' - 4 5/8" 14' - 4 5/8" 14' - 11 3/4"

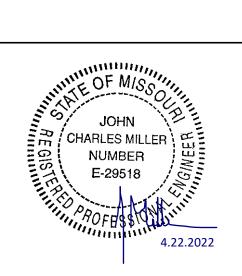
1 TYPICAL LONG TRUSS ELEVATION





3 TYPICAL TRUSS END MEMBER CONNECTION
1 1/2" = 1'-0"

BREW



ENGINEER OF RECORD: JOHN C. MILLER

E-29518 E-2011011004

PROJECT NUMBER: 22033 7BLS

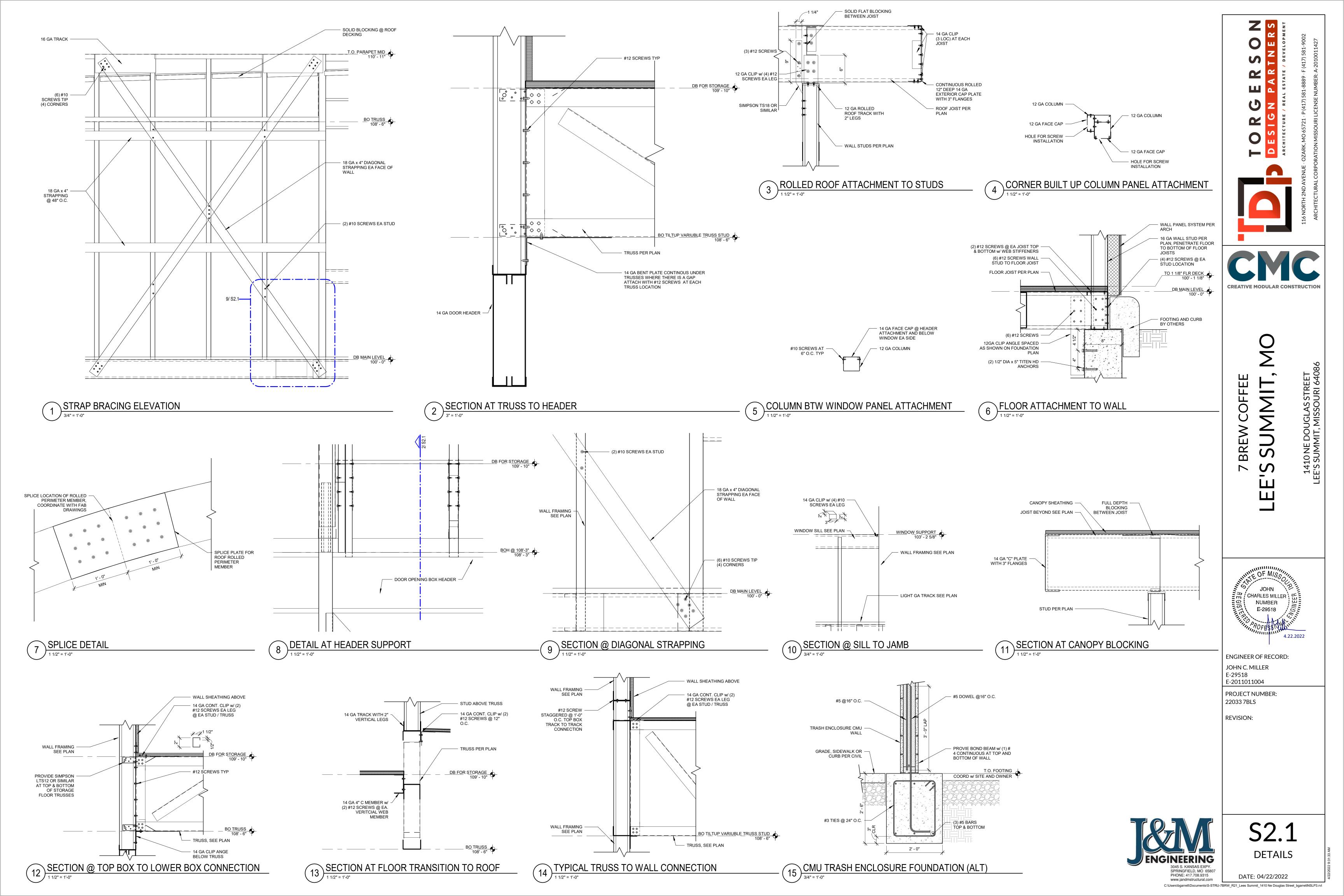
REVISION:



S1.3 TRUSS SHEET

DATE: 04/22/2022

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2 CROSS SECTION WITH CANOPY

KEYNOTE LEGEND

KEYNOTE DESCRIPTION

05.201 PROVIDE STRAP BRIDGING @ 24" O.C. w/ BLOCKING PIECES EACH END.

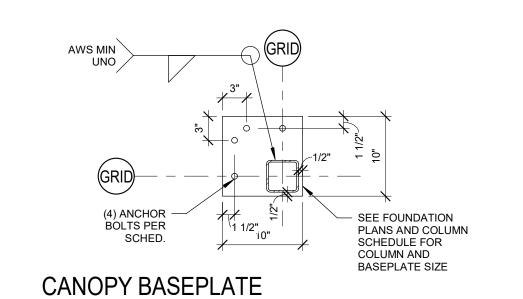
05.202 PLACE "C" PROFILE BACK TO BACK, ATTACH w/ (3) SCREWS AT 12" MAX.

ON CENTER.

05.203 ANCHOR CHANNEL TO WALL w/ (4) #12 GALV. TEK SCREWS @ EACH

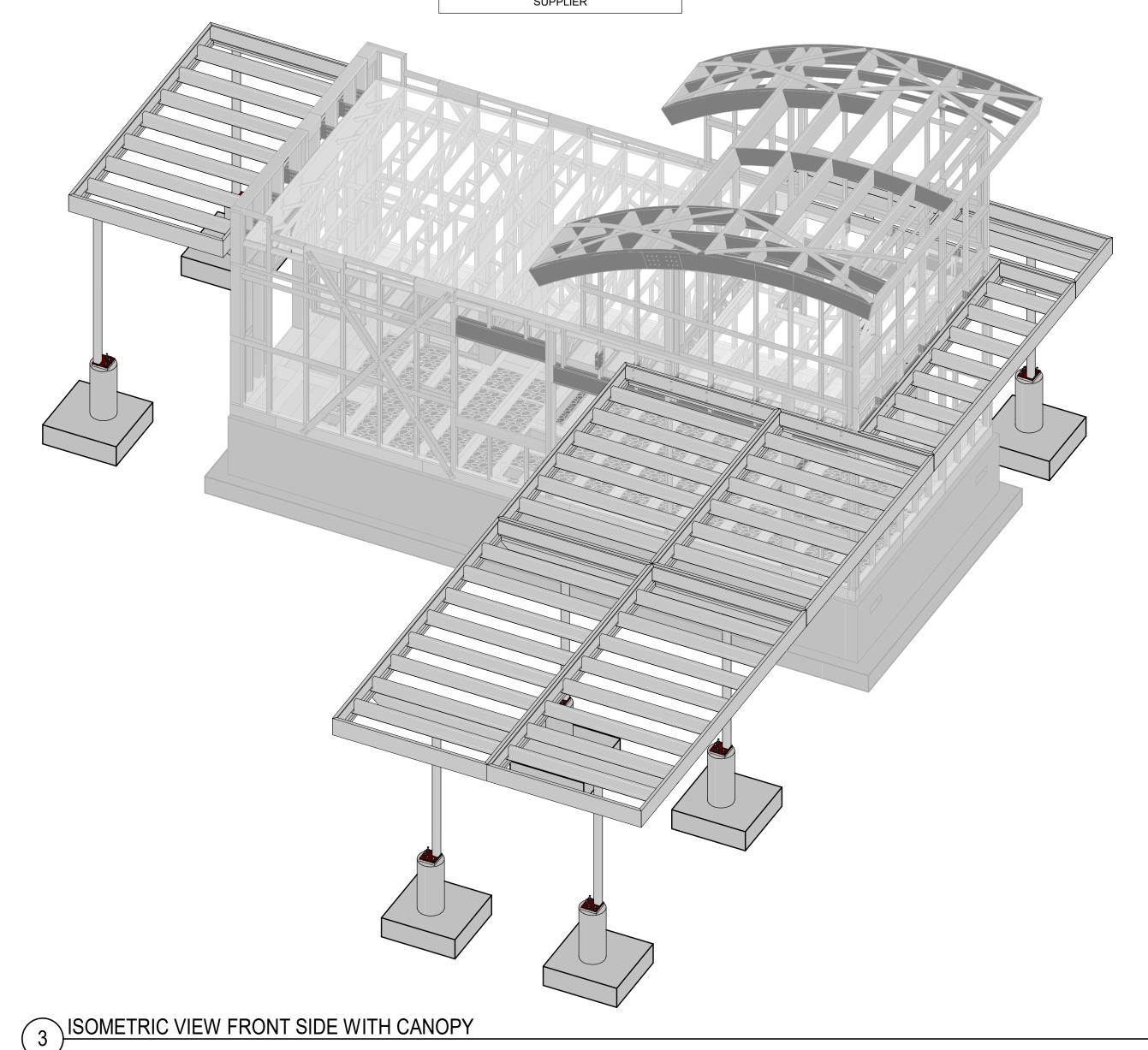
STUD.

COLUMN SCHEDULE TYPE MARK COLUMN SIZE S1 HSS4X4X1/4 BASE PLATE TYPE & SIZE ANCHOR BOLT SIZE NOTES (4) 3/4" DIA w/ 18" EMBEDMENT 5/8"x10" SQ



ISOMETRIC VIEWS FOR REFERENCE ONLY

COORDINATE EXACT SIZE AND SHAPE OF CANOPY WITH OWNER AND CANOPY SUPPLIER



SPRINGFIELD, MO 65807 PHONE: 417.708.9315

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S3.1 **DRIVE THRU** CANOPY DATE: 04/22/2022

CREATIVE MODULAR CONSTRUCTION

ENGINEER OF RECORD: JOHN C. MILLER

E-29518 E-2011011004 PROJECT NUMBER:

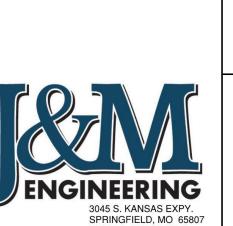
22033 7BLS

REVISION:

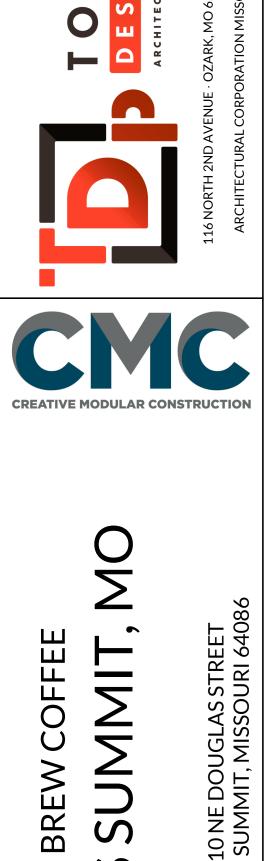
E-29518 E-2011011004 PROJECT NUMBER:

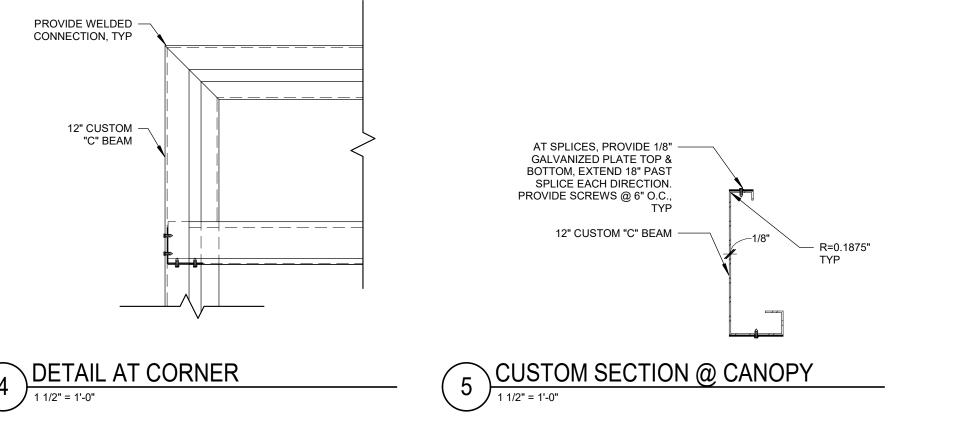
22033 7BLS

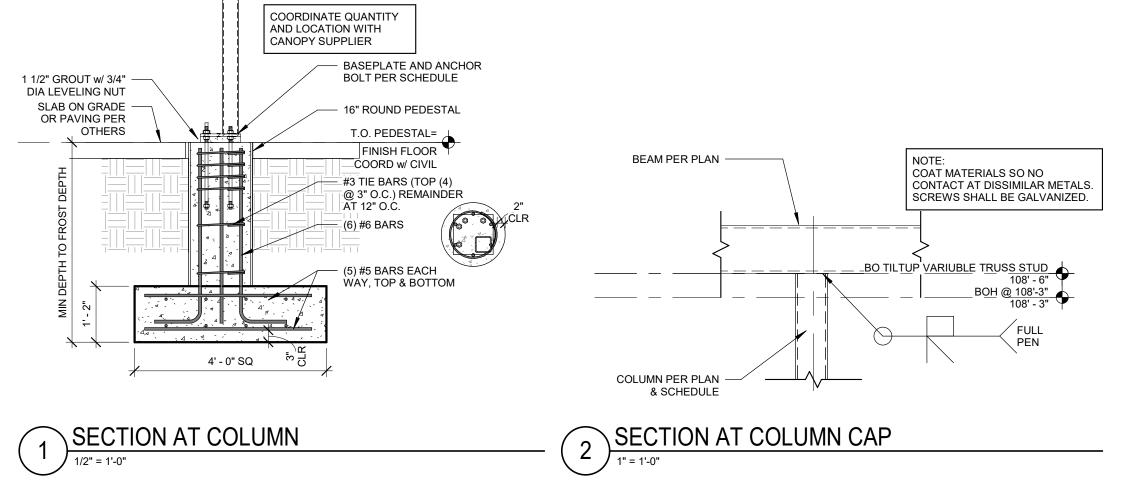
REVISION:



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— (2) 7 1/2" STUDS x 12

12 GA SADDLE CLIP, FULL HEIGHT OF CANOPY PERIMETER

MEMBER

/***

SECTION A-A DOUBLE

SECTION A-A BOXED

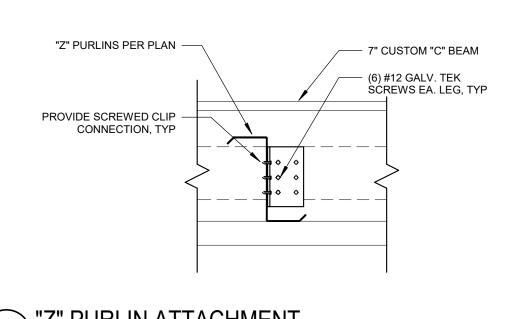
STEEL COLUMN PER PLAN & SCHEDULE

- CANOPY PERIMETER

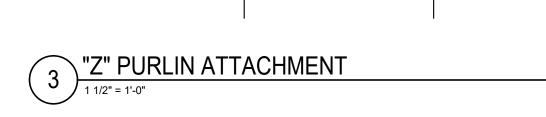
7 1/2"x2" 12 GA STUDS

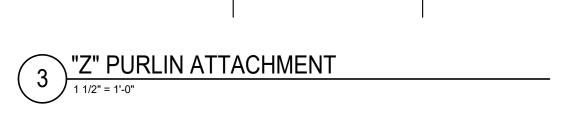
MEMBER

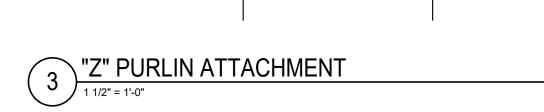
CANOPY JOIST W/ END PLATE

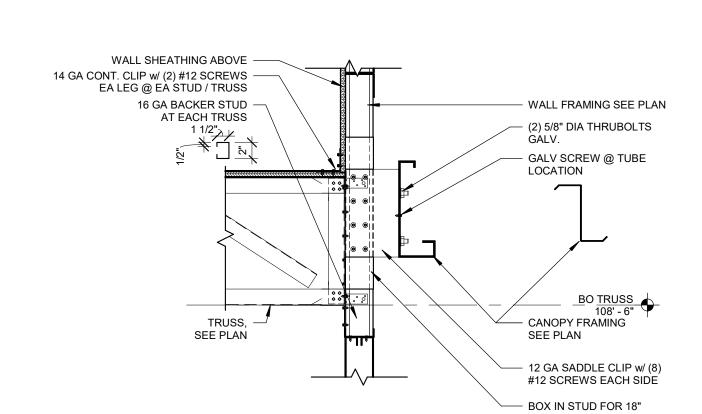


CONNECTION, TYP











(2) 7 1/2" STUDS x 12 GA -

SINGLE 2" WIDE STUD @ ALL CANOPY ANCHOR LOCATIONS

OR FULLY BOXED

14 GA KICKER -AT CANOPY CONNECTION LOCATION

(16) #12 —— SCREWS

0000

0000

12 GA x 2'-0" BOXED IN — SECTION (FULL HEIGHT AT CORNERS OF CANOPY)

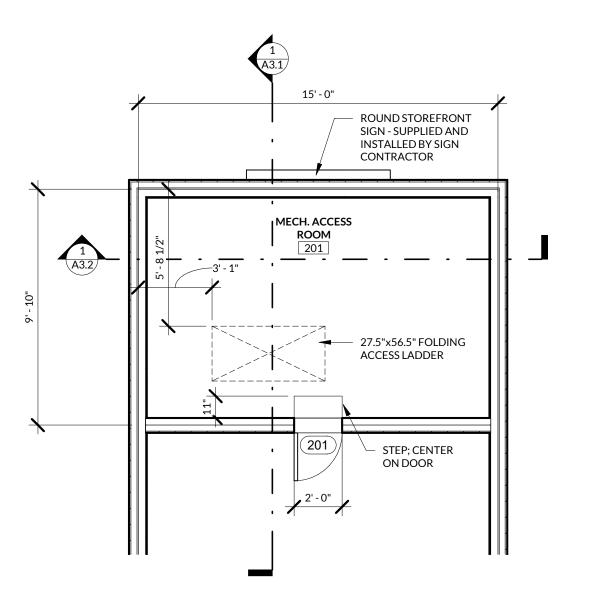
SECTION @ LOW CANOPY

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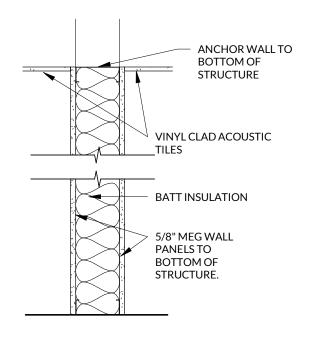
S3.2 CANOPY DETAILS

DATE: 04/22/2022

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PARTITION TYPES



P4a uses 6" METAL STUDS

P1 USES 3-5/8" METAL STUDS

ROOM FINISH SCHEDULE

					WA	LLS				
RM NO.	RM NAME	FLR	BASE	ТОР	RT	ВОТ	LT	CLG	CLG HGT	NOTE
101	SERVICE AREA	F1	B1	W1/2	W1/2	W1	W1/2	C1	VERIFY	-
102	TOILET	F1	B1	W1	W1	W1	W1	C1	VERIFY	-
201	MECH ACCESS RM	F2	B2	W3	W3	W3	W3	C2	VARIES	-

FINISH LEGEND:

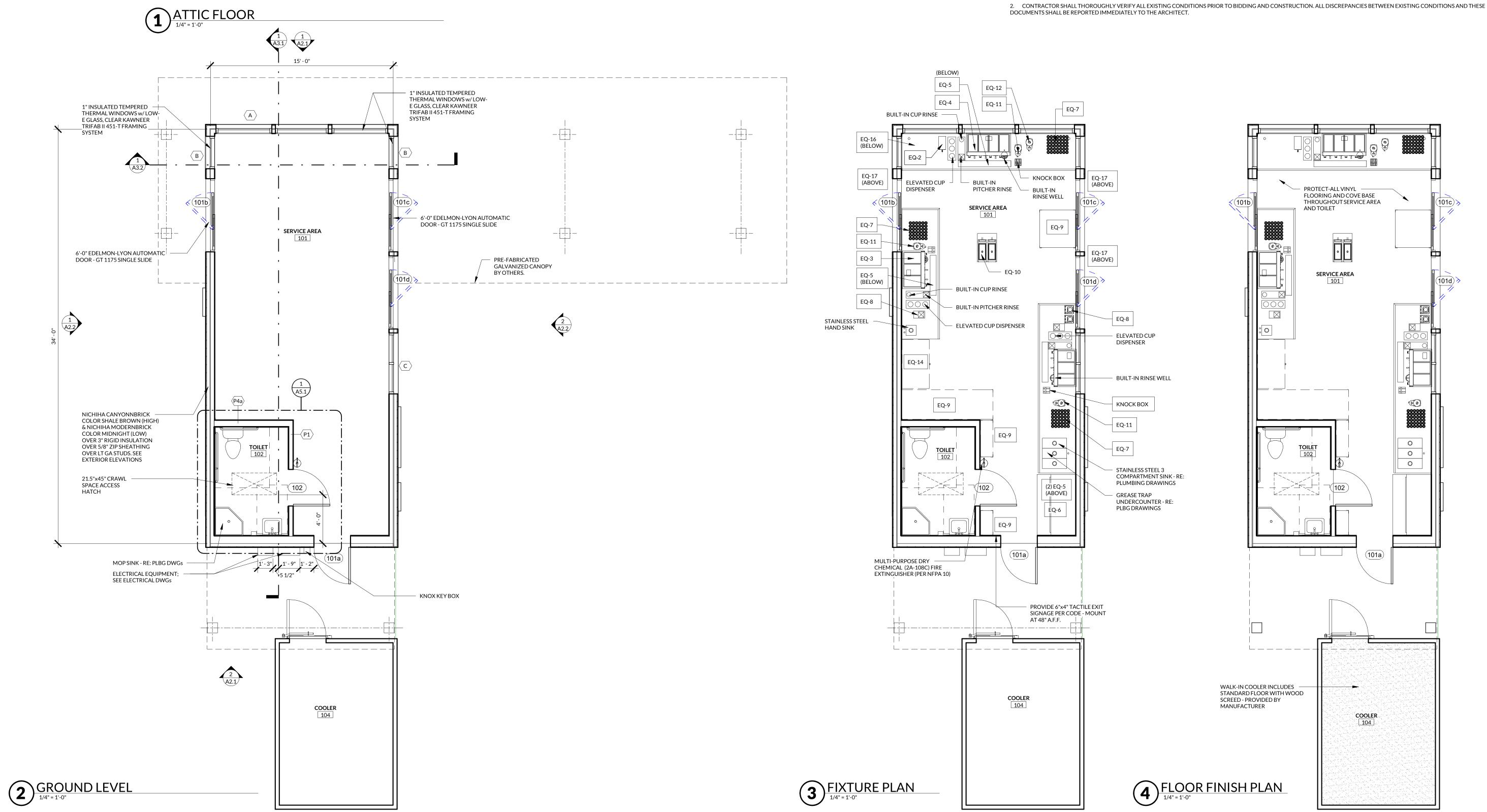
<u>FLOORS</u>	BASE	WALLS	<u>CEILINGS</u>
F1 PROTECT-ALL VINYL	B1 PROTECT-ALL VINYL COVE BASE	W1 MEG WALL PANELS	C1 VINYL CLAD ACOUSTICAL TILE
F2 UNFINISHED PLYWOOD	B2 NONE	W2 ALUM STOREFRONT SYSTEM	C2 EXPOSED STRUCTURE
		W3 EXPOSED STRUCTURE	

ROOM FINISH SCHEDULE NOTES:

FRP PANELS PROVIDED AND INSTALLED BY CONTRACTOR

1. CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF THE LANDLORDS CRITERIA PRIOR TO CONSTRUCTION. FAILURE TO ACCOUNT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE HIM FROM ANY RESPONSIBILITY.

2. CONTRACTOR SHALL THOROUGHLY VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.





BREW



ARCHITECT OF RECORD: NAME: ADAM KREHER

LICENSE NO. 2011002764 PROJECT NUMBER: 22033 7BLS

REVISION:

A1.1 FLOOR PLANS

DATE: APRIL 22, 2022

EGRESS LOADING INFORMATION

OCCUPANCY LOADING CALCULATIONS
PER IBC 2018: TABLE 1004.1.2

KITCHENS: 200 S.F. PER OCCUPANT

ROOM OCCUPANCY CALCULATION OCUPPANTS

101 SERVICE AREA KITCHEN 468 SF/200 SF 3
104 COOLER STORAGE 124 SF/300 SF 1

EXIT CAPACITY:
EGRESS WIDTH REQUIRED: 4 OCCUPANTS X 0.2" PER OCCUPANT REQUIRED = 0.8"
EGRESS WIDTH PROVIDED: 36"
EGRESS WIDTH OF 0.2" PER OCCUPANT USED FOR DOORS PER IBC TABLE 1005.

NUMBER OF EXITS REQUIRED:
(1) EXIT REQUIRED FOR PER STORY FOR LESS THAN 49 OCCUPANTS PER IBC TABLE 1006.2.1.
(1) EXIT PROVIDED.

RESTROOM LOADING

ACTUAL MAX TRAVEL DISTANCE TO EXIT: 32'-0"

200'-0" PER IBC TABLE 1017.2

OCCUPANCY: 4 OCCUPANTS

RESTROOM FIXTURES REQUIRED/PROVIDED • USE GROUP: BUSINESS

20'-0" MAX LENGTH OF DEAD END CORRIDOR PER IBC SECTION 1018

TOILET COUNT:

= 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORY COUNT:

= 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

TUB/ SHOWERS: = NOT REQUIRED

DRINKING FOUNTAINS: = 1 PER 100

OTHER: = 1 SERVICE SINK

PLUMBING FIXTURE COUNT PER IBC TABLE 2902.1

TOILET COUNT:

WATER CLOSETS REQUIRED: 4 OCCUPANTS / 25
WATER CLOSETS PROVIDED:

= 1 WATER CLOSET REQUIRED
1 UNISEX WATER CLOSET PROVIDED

LAVATORY COUNT:

SINKS REQUIRED: 4 OCCUPANTS / 40 = 1 REQUIRED
SINKS PROVIDED: = 1 PROVIDED

DRINKING FOUNTAIN COUNT:

DRINKING FOUNTAINS REQUIRED: 4 OCCUPANTS / 100

DRINKING FOUNTAIN PROVIDED:

DRINKING FOUNTAIN PROVIDED:

TREQUIRED

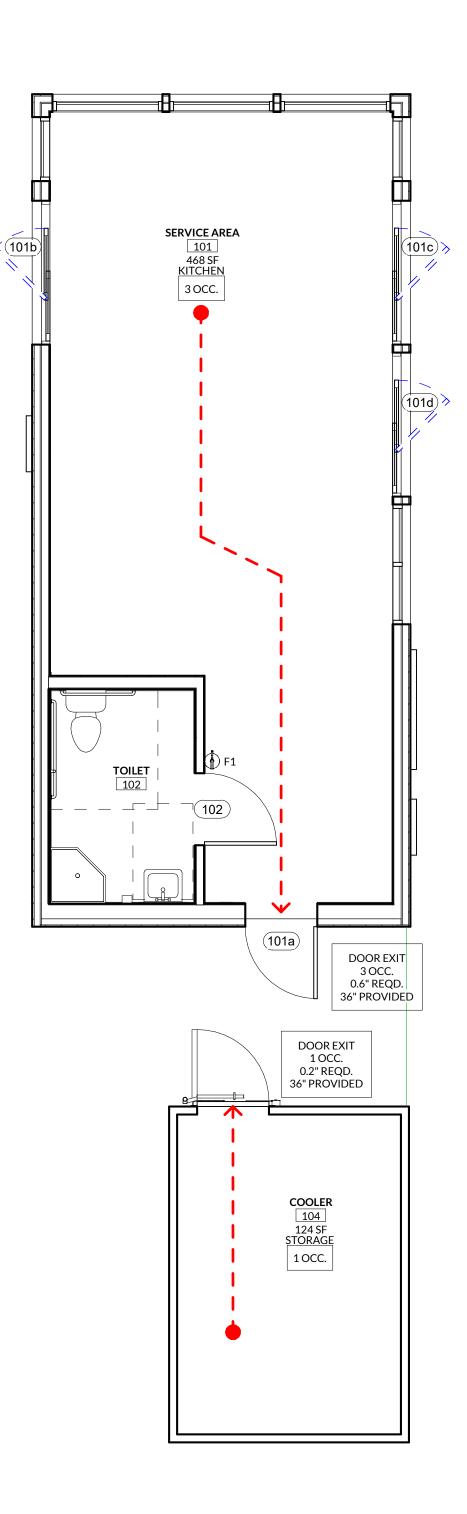
WATER WILL BE PROVIDED FOR FREE UPON REQUEST.

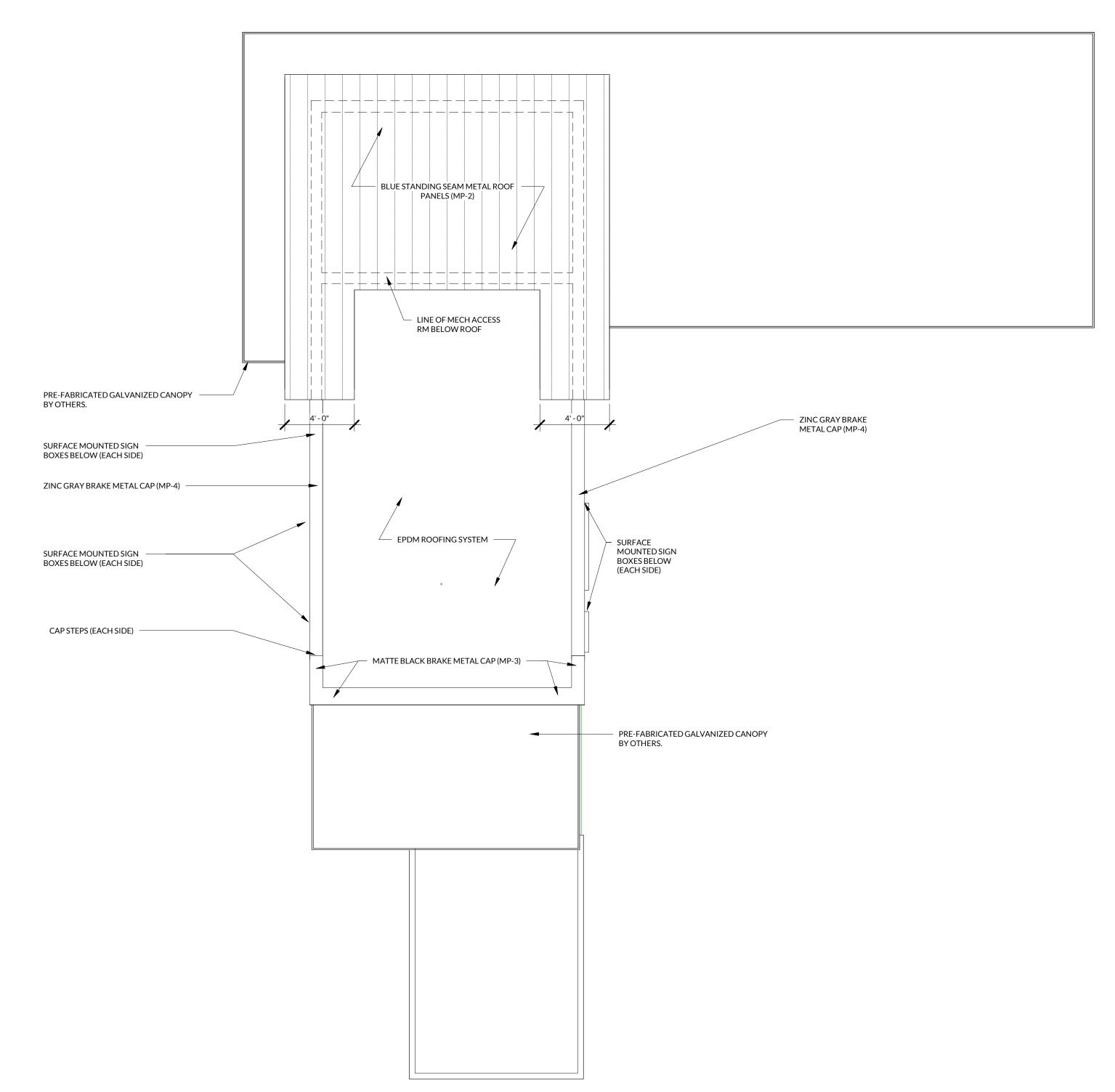
SERVICE SINK COUNT:SERVICE SINKS REQUIRED:= 1 REQUIREDSERVICE SINK PROVIDED:= 1 PROVIDED

FIRE EXTINGUISHER NOTES

F1 10 LBS, ABC FIRE EXTINGUISHER ON WALL MOUNTED BRACKET. MOUNT HANDLE @ 4'-0".

75'-0" RADIUS FROM FIRE EXTINGUISHER @ F1
(NOT SHOWN, ENCOMPASSES ENTIRE BUILDING)





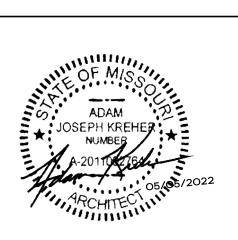
2 ROOF PI

TORGERSO

DESIGN PARTNE

116 NORTH 2ND AVENU

EE'S SUMMIT, MC



ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER: 22033 7BLS

REVISION:

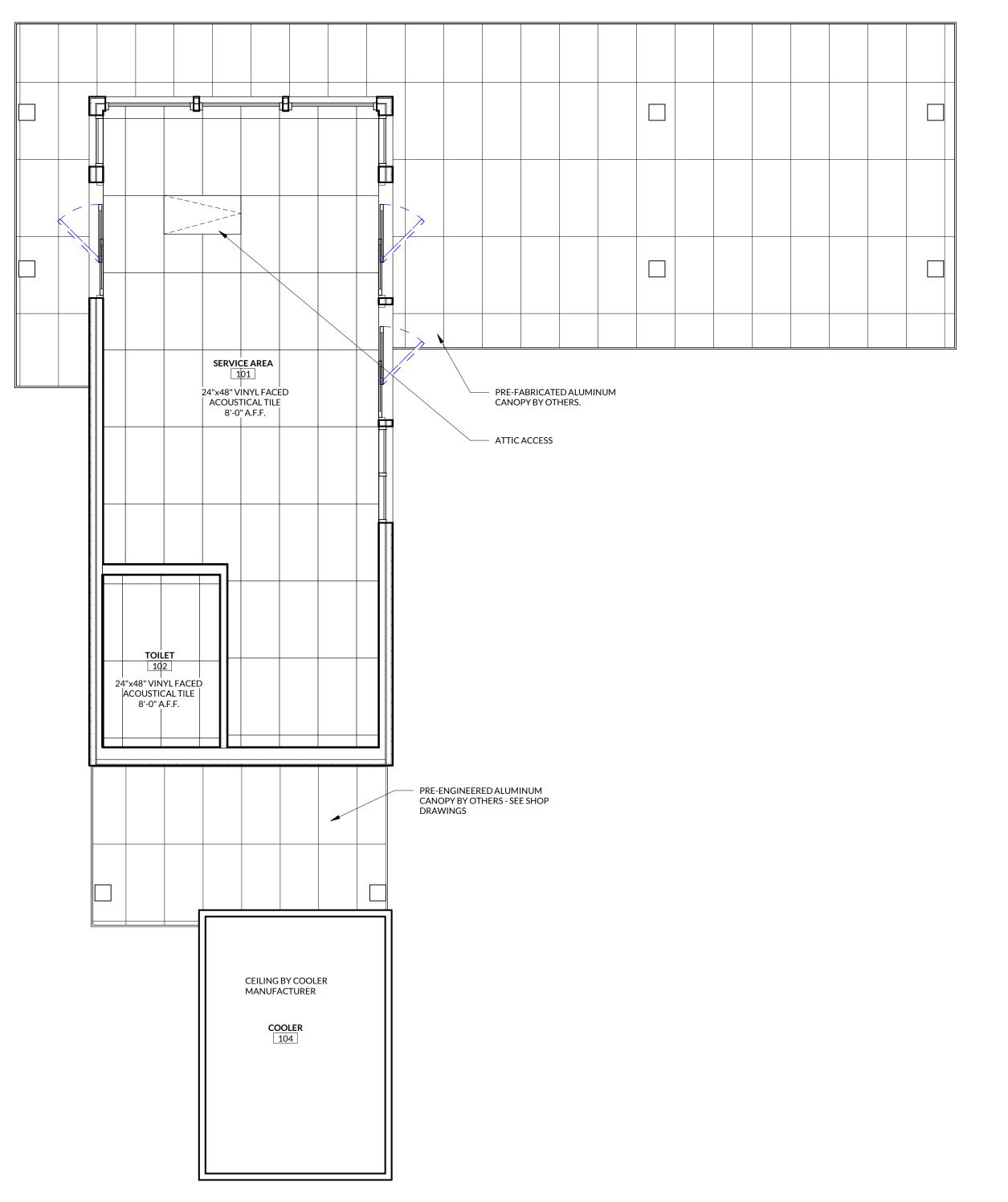
A 1.2

ROOF PLAN / EGRESS PLAN

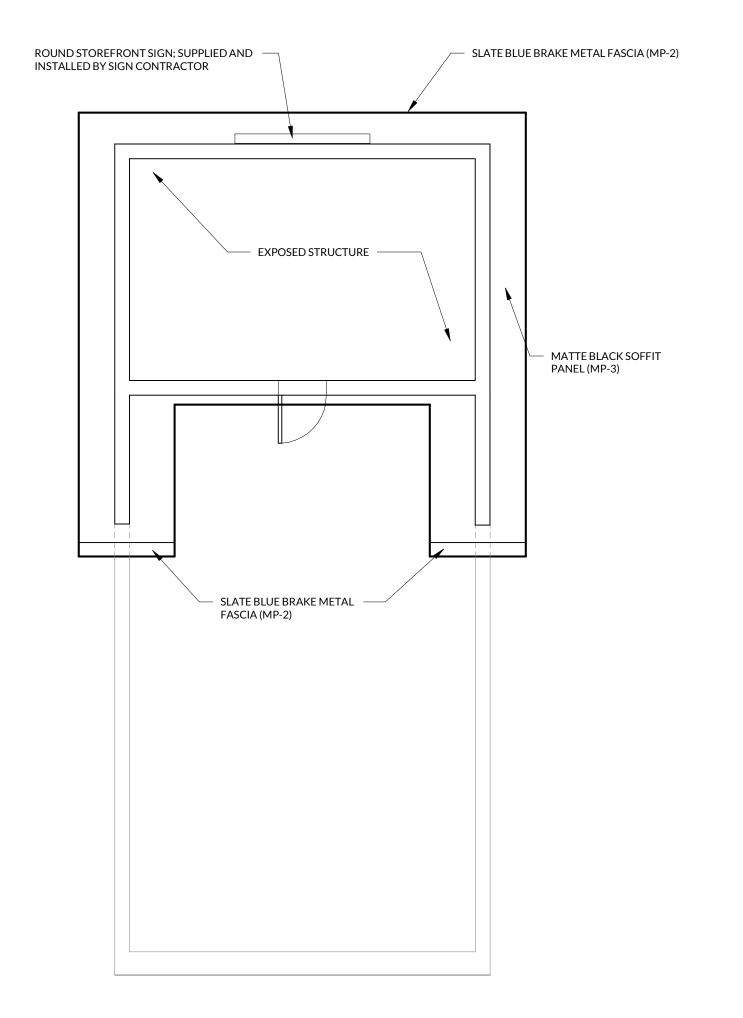
DATE: APRIL 22, 2022

EGRESS PLAN

1/4" = 1'-0"

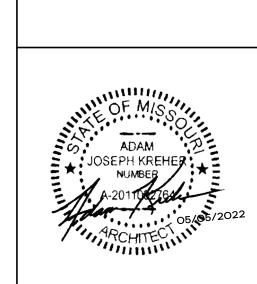






RCP - ATTIC FLOOR





ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

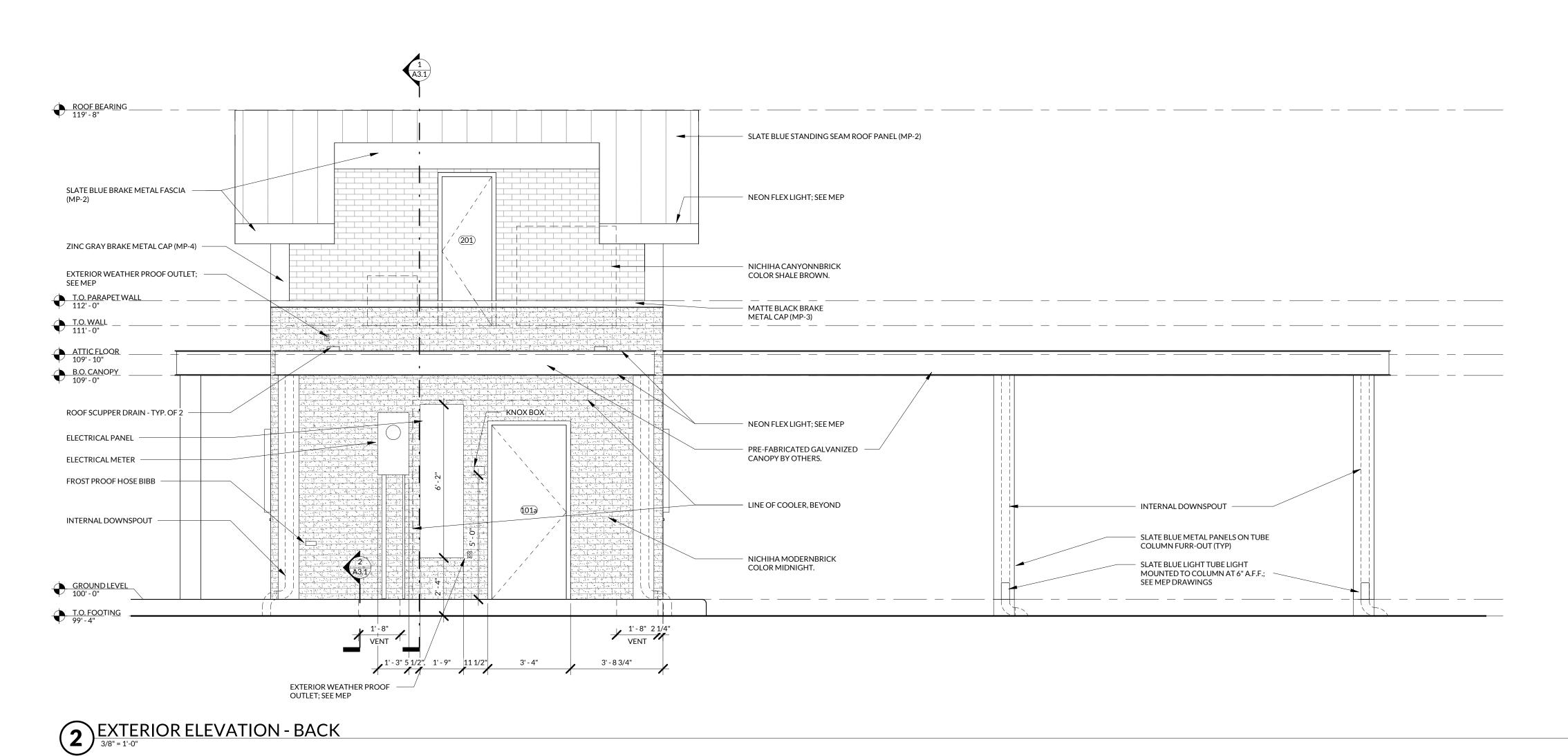
PROJECT NUMBER: 22033 7BLS

22033 / DL

REVISION:

A1.3

REFLECTED CEILING
PLANS
DATE: APRIL 22, 2022



OFFEE BREW

ARCHITECT OF RECORD: NAME: ADAM KREHER LICENSE NO. 2011002764

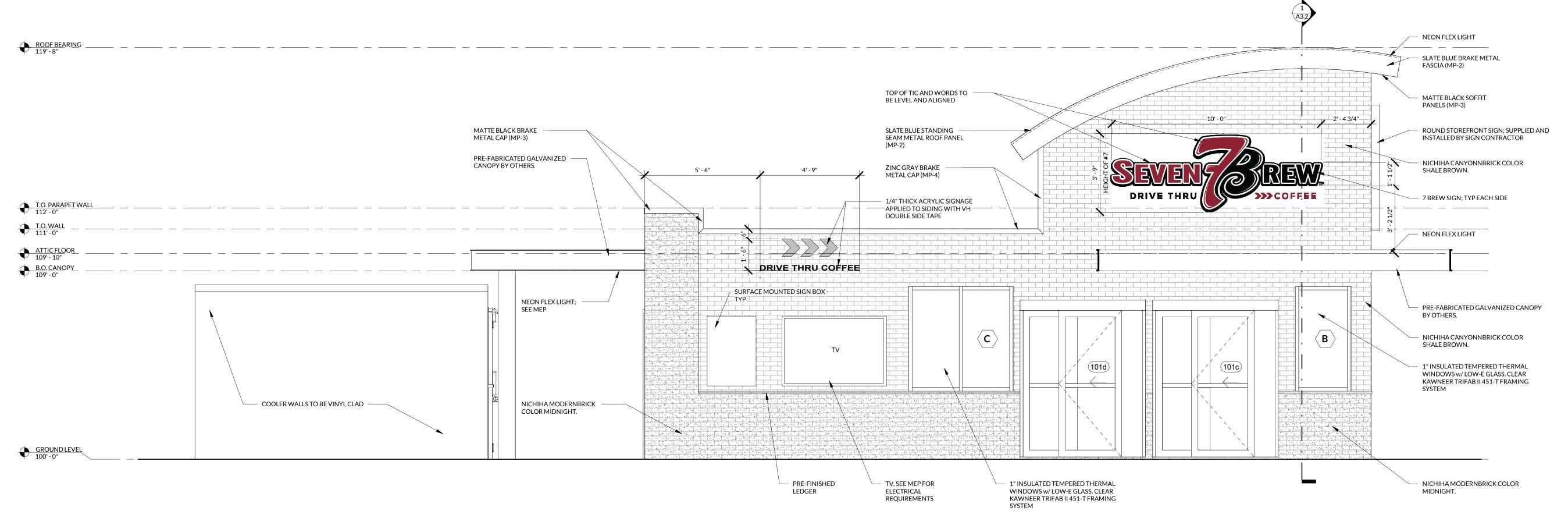
PROJECT NUMBER:

22033 7BLS REVISION:

> A2.1 **EXTERIOR ELEVATIONS** DATE: APRIL 22, 2022

EXTERIOR ELEVATION - RIGHT SIDE

3/8" = 1'-0"



2 EXTERIOR ELEVATION - LEFT SIDE



OFFEE BREW

ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764 PROJECT NUMBER:

22033 7BLS

REVISION:

A2.2 **EXTERIOR**

ELEVATIONS DATE: APRIL 22, 2022



BREW

ARCHITECT OF RECORD: NAME: ADAM KREHER

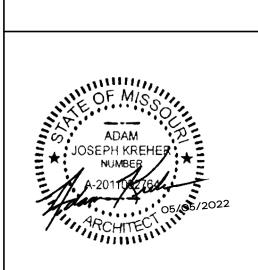
LICENSE NO. 2011002764 PROJECT NUMBER: 22033 7BLS

REVISION:

A3.1 SECTIONS AND **DETAILS** DATE: APRIL 22, 2022



OFFEE BREW



ARCHITECT OF RECORD: NAME: ADAM KREHER LICENSE NO. 2011002764

PROJECT NUMBER:

22033 7BLS

REVISION:

PAVEMENT

SUB-BASE

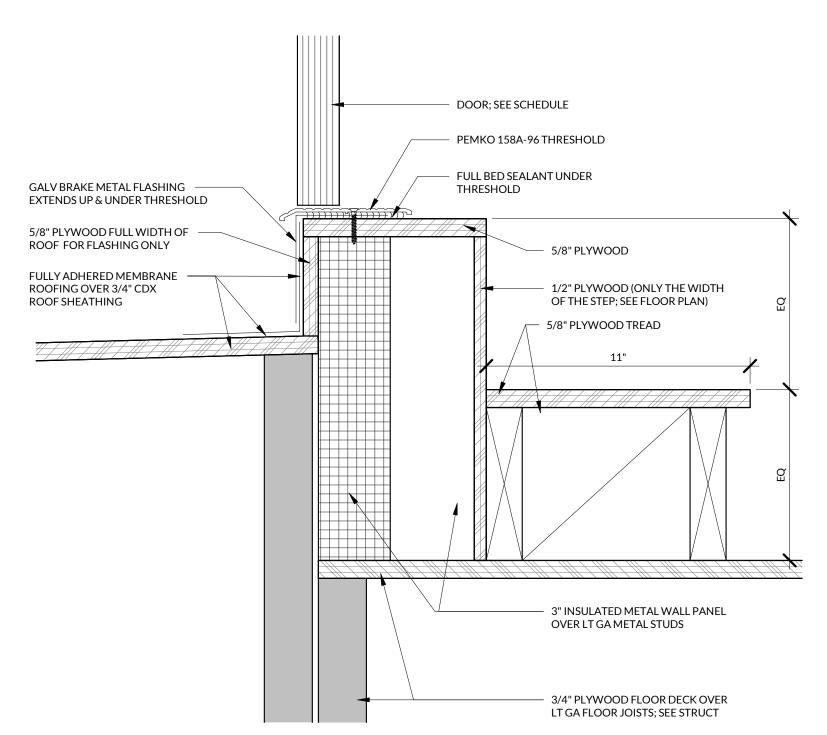
A3.2 SECTIONS AND **DETAILS** DATE: APRIL 22, 2022

DOOR HEAD @ HM FRAME

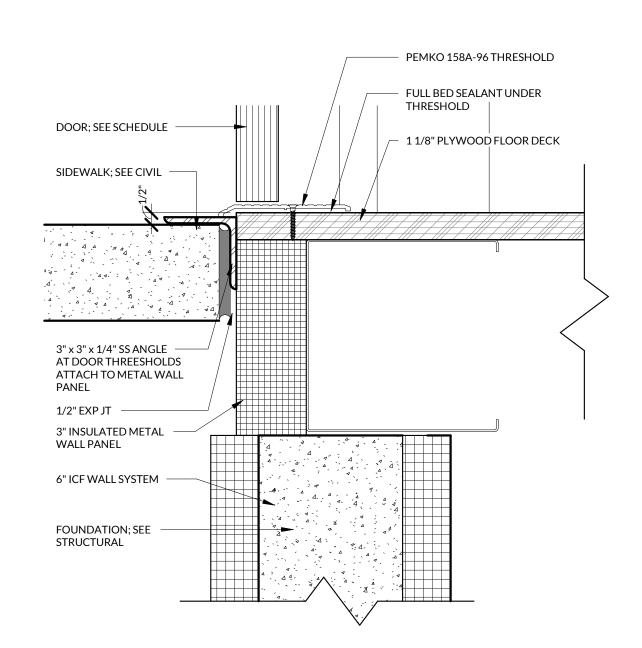
3" = 1'-0"

DOOR HEAD @ 3" INSUL PANEL

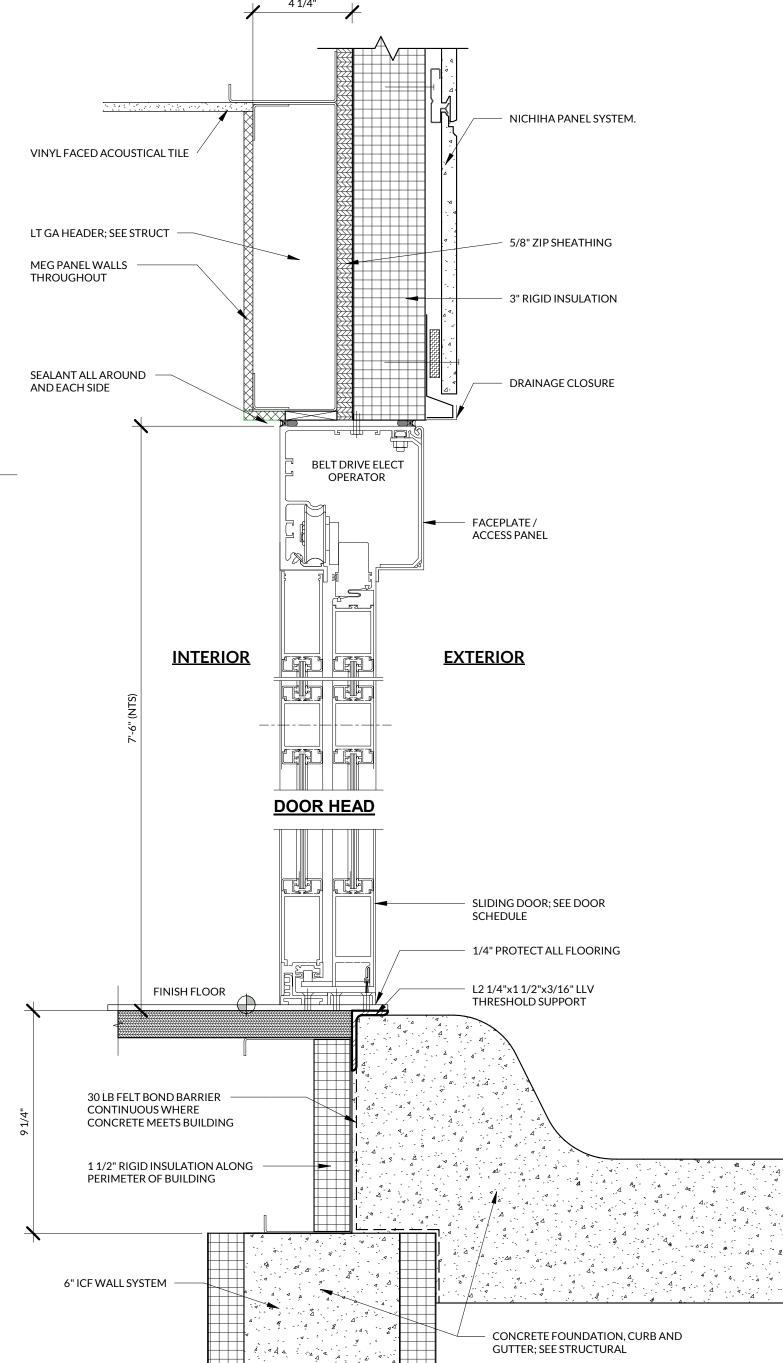
3" = 1'-0"



3 DOOR THRESHOLD @ MECH ACCESS RM DOOR

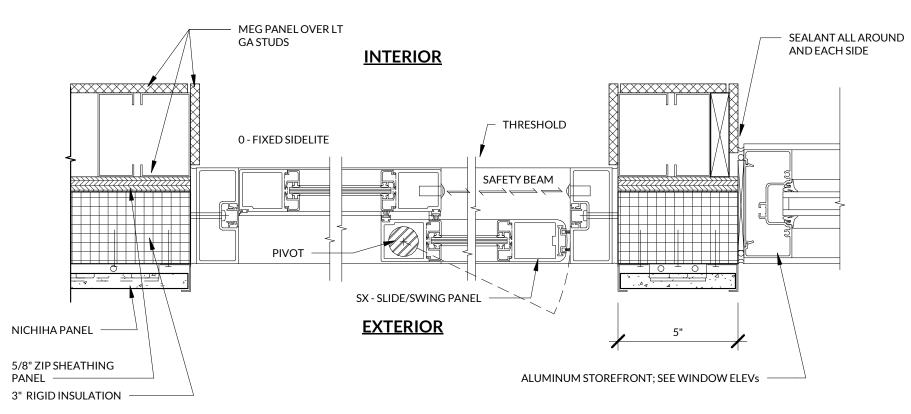


DOOR THRESHOLD @ MAIN FLOOR EXTERIOR DOOR



DOOR THRESHOLD

5 SLIDING DOOR HEAD/THRESHOLD

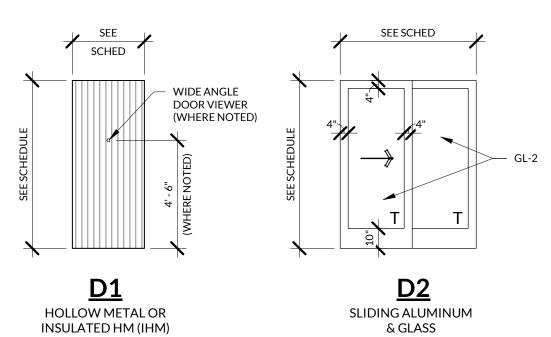


SLIDING DOOR JAMB

3" = 1'-0"

	DOOR SCHEDULE											
DOOR FRAME DETAILS												
DOOR NUMBER	ROOM	SIZE	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	THRESHOLD	FIRE RATING	HARDWARE SET	COMMENTS
101a	SERVICE AREA	3'-0"x7'-0"	D1	НМ	F1	НМ	2/A4.1	2/A4.1 SIM.			1	
101b	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2			4	
101c	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2			4	
101d	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2			4	
102	TOILET .	3'-0"x7'-0"	D1	НМ	F1	НМ	1/A4.1	1/A4.1 SIM.			2	

DOOR ELEVATIONS



MECH. ACCESS ROOM 2'-0"x6'-0" D1 IHM

- DOOR SCHEDULE NOTES: a. REFER TO DOOR SCHEDULE FOR HARDWARE SETS
- b. PAINT TO MATCH ADJACENT FINISHES
- c. REFER TO CODE COMPLIANCE DOOR NOTES (BELOW) FOR ADDITIONAL REQUIREMENTS.

CODE COMPLIANCE DOOR NOTES:

ALL EXIT DOORS SHALL CONFORM TO THE FOLLOWING PROVISIONS OF THE INTERNATIONAL

- BUILDING CODE (IBC) AND THE STATE OF MISSOURI ACCESSIBILITY CODE: 1. THE EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL
- KNOWLEDGE OR EFFORT WHEN THE BUILDING IS OCCUPIED. 2. ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" TO 48" A.F.F. AND SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.

A.F.F. AND NO MORE THAN 8" FROM THE EDGE OF THE DOOR TO THE EDGE OF THE SIGN.

3. DOOR LEADING TO UNISEX TOILET ROOM SHALL BE IDENTIFIED WITH A 12" DIAMETER CIRCLE WITH A TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. SIGN/SYMBOL SHALL BE MOUNTED ON THE WAL, ON THE LATCH SIDE OF THE DOOR AND 60"

GENERAL NOTES

ALL GLAZING FOR EXTERIOR DOOR OR WINDOW FRAMES SHALL BE INSULATED

ALL GLAZING FOR INTERIOR DOOR OR WINDOW FRAMES SHALL BE UNINSULATED, SINGLE PANE

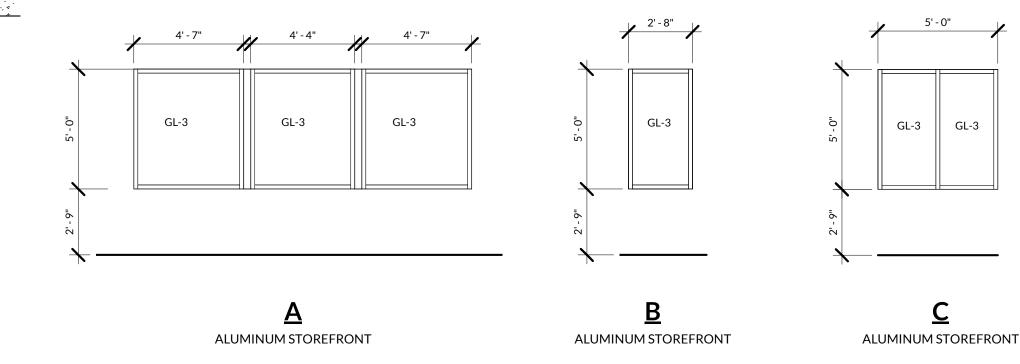
DOOR & FRAME FINISH LEGEND

AL = ALUM DOOR OR FRAME

HM = HOLLOW METAL DOOR OR FRAME F1 = PAINTED

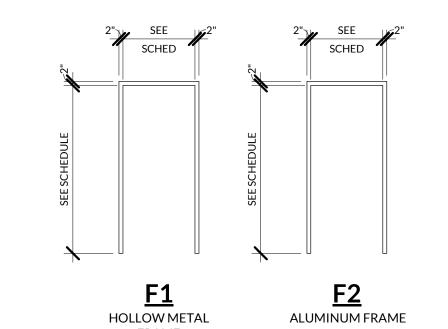
F2 = PRE-FINISHED; CLEAN & PROTECT

WINDOW ELEVATIONS



FRAME ELEVATIONS

2/A4.1 SIM.



HARDWARE SETS:

- CLOSER
- PANIC HARDWARE; "DETEX" ECL-600 (OR EQUAL)
 1 1/2 PAIR STANLEY #CB0700 TWO KNUCKLE HINGES
 STANLEY #803969 (OR EQUAL) STEEL-BRIGHT BRASS
- 170 DEGREE, WIDE ANGLE DOOR VIEWER; SEE ELEV FOR LOCATION KEYED LOCK ON EXTERIOR
- THUMB TURN DEADBOLT KNOB ON INTERIOR

- SCHLAGE PRIVACY LOCK"SATURN" LEVER HANDLE (BRUSHED ALUMINUM)
- 1 1/2 PAIR BUTT HINGES
- 1 1/2 PAIR STANLY #CB0700 TWO KNUCKLE HINGES
 THUMB TURN DEADBOLT KNOB ON INTERIOR
- KEYED LOCK ON EXTERIOR

EDELMON-LYON AUTOMATIC DOOR - GT 1175 SINGLE SLIDE DOOR

KEYED LOCK ON SLIDING DOORS

GLAZING SCHEDULE

- GL-1 1/4" FULLY TEMPERED GLASS
- GL-2 1" INSULATED SAFETY GLASS
- GL-3 1" INSULATED TEMPERED GLASS
- GL-4 5/8" INSUL SAFETY DOOR GLASS



ARCHITECT OF RECORD: NAME: ADAM KREHER

LICENSE NO. 2011002764 PROJECT NUMBER:

22033 7BLS

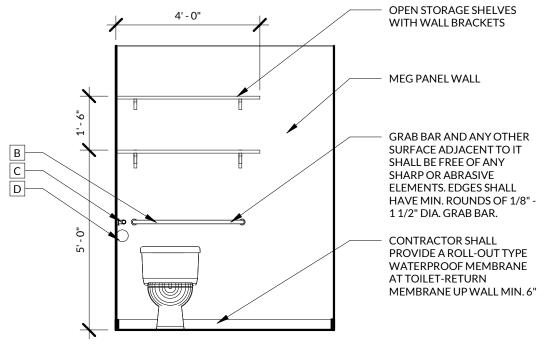
FFE

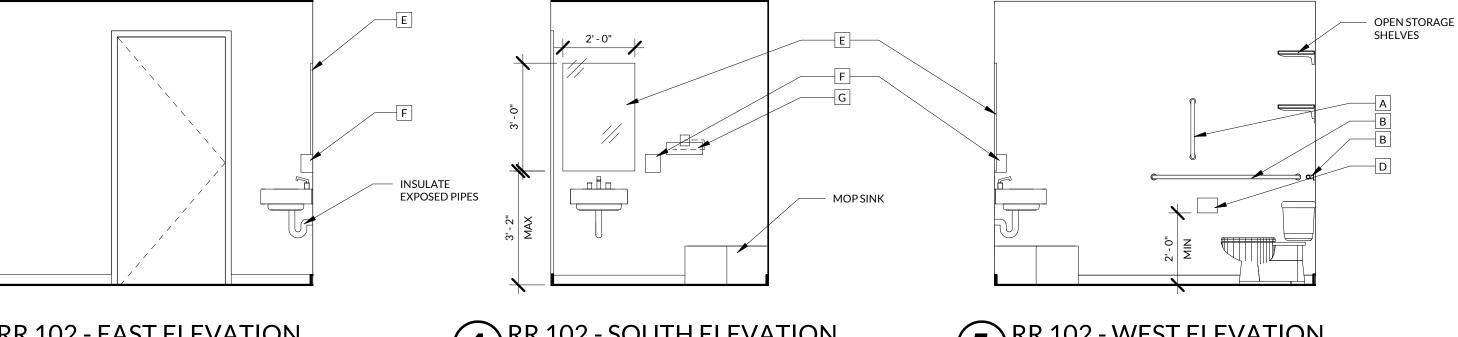
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REVISION:

A4.1 **DOORS AND WINDOWS** DATE: APRIL 22, 2022





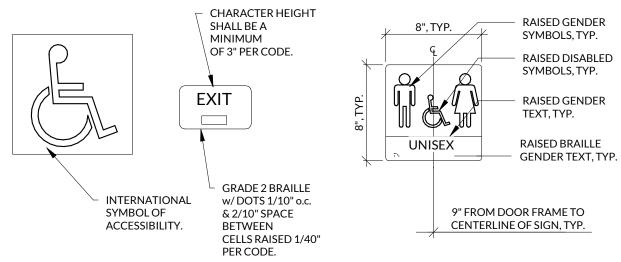
RR 102 - NORTH ELEVATION
3/8" = 1'-0"

RR 102 - EAST ELEVATION

3/8" = 1'-0"

S RR 102 - WEST ELEVATION
3/8" = 1'-0"





SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE

ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.

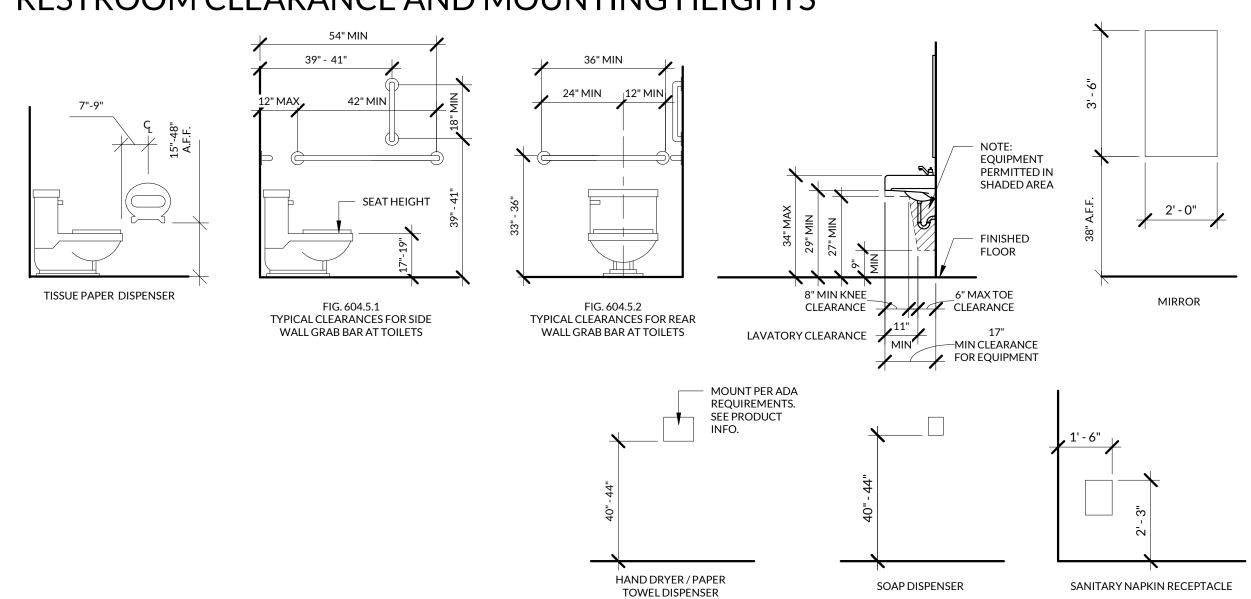
SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/A CONTRASTING BACKGROUND.

RESTROOM SCHEDULE

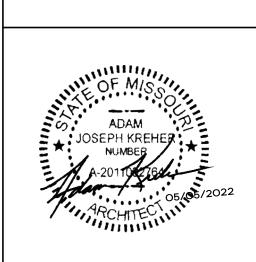
MARK	ITEM	DESCRIPTION	NOTES
А	18" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x18, VERTICAL	FINISH TO BE STAINLESS STEEL
В	36" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x36, HORIZONTAL	FINISH TO BE STAINLESS STEEL
С	48" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x48, HORIZONTAL	FINISH TO BE STAINLESS STEEL
D	TOILET PAPER DISPENSER		FINISH TO BE STAINLESS STEEL
Е	MIRROR	EQ. TO BOBBRICK B-165 2436	FINISH TO BE STAINLESS STEEL
F	SOAP DISPENSER		FINISH TO BE STAINLESS STEEL
G	PAPER TOWEL DISPENSER		FINISH TO BE STAINLESS STEEL

- A. MOUNTING HEIGHT TO COMPLY WITH ADA REQUIREMENTS. CONTRACTOR IS TO PROVIDE ALL BLOCKING NECESSARY FOR PROPER INSTALLATION. INSTALL PER MANF. RECOMMENDATIONS.
- B. EQUIPMENT SHOWN MAY NOT REFLECT APPEARANCE OF FINAL EQUIPMENT SELECTION.
- C. ALL EQUIPMENT SHALL BE EQUAL TO THAT SPECIFIED. CONTRACTOR TO SUBMIT SHOP DRAWINGS/ CUT SHEETS FOR APPROVAL ON FINAL SELECTION. D. ALL DIMENSIONS TO BE VERIFIED WITH PRODUCT REQUIREMENTS. INSTALL PER MANF. RECOMMENDATIONS.

RESTROOM CLEARANCE AND MOUNTING HEIGHTS







ARCHITECT OF RECORD: NAME: ADAM KREHER LICENSE NO. 2011002764

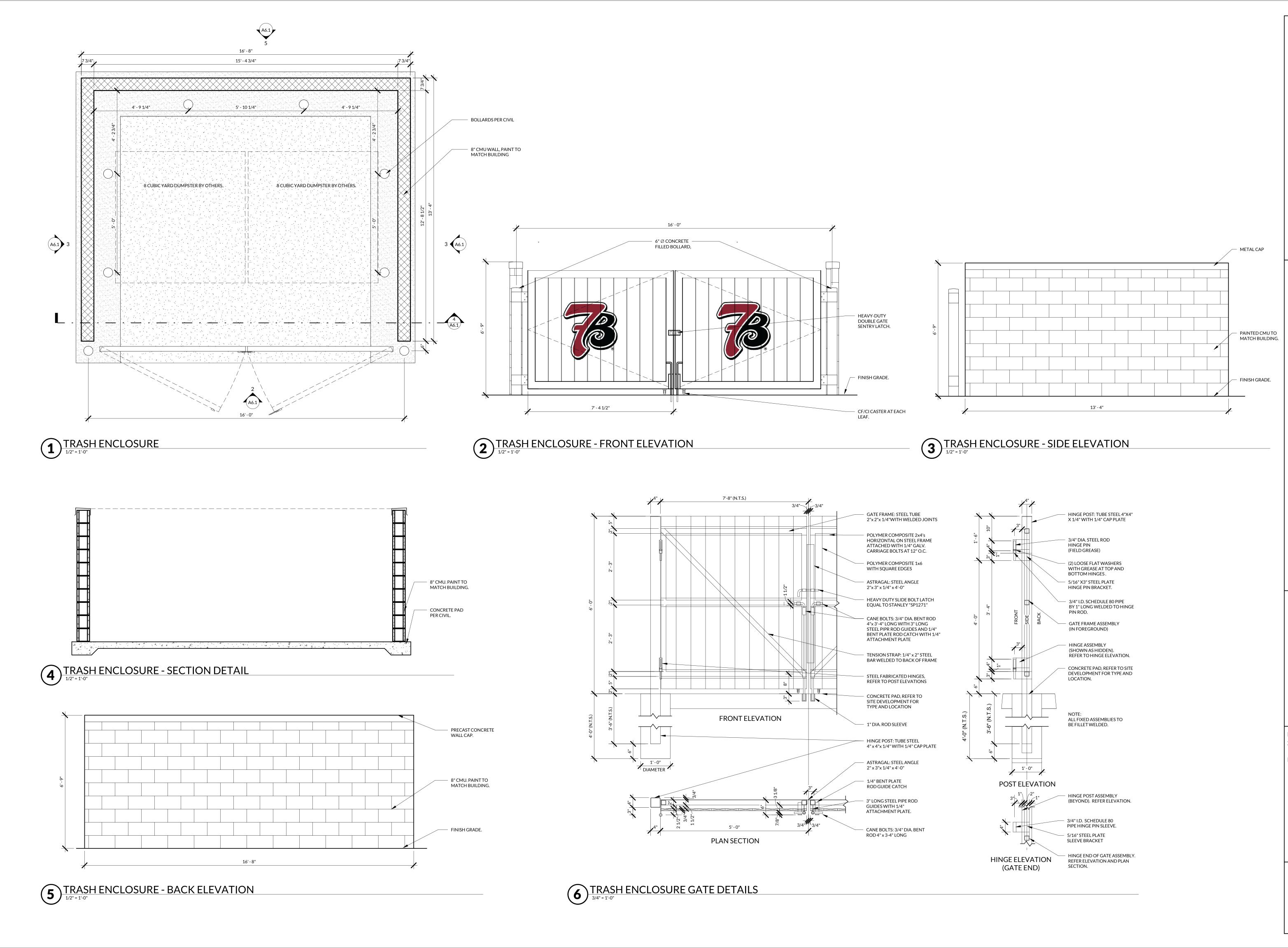
PROJECT NUMBER:

22033 7BLS

REVISION:

A5.1 RESTROOMS

DATE: APRIL 22, 2022



7 BREW COFFEE

EE'S SUMMIT, MO

LEE'S SUM

A-20110476

ARCHITECT OF RECORD: NAME: ADAM KREHER

LICENSE NO. 2011002764
PROJECT NUMBER:

PROJECT NUME 22033 7BLS

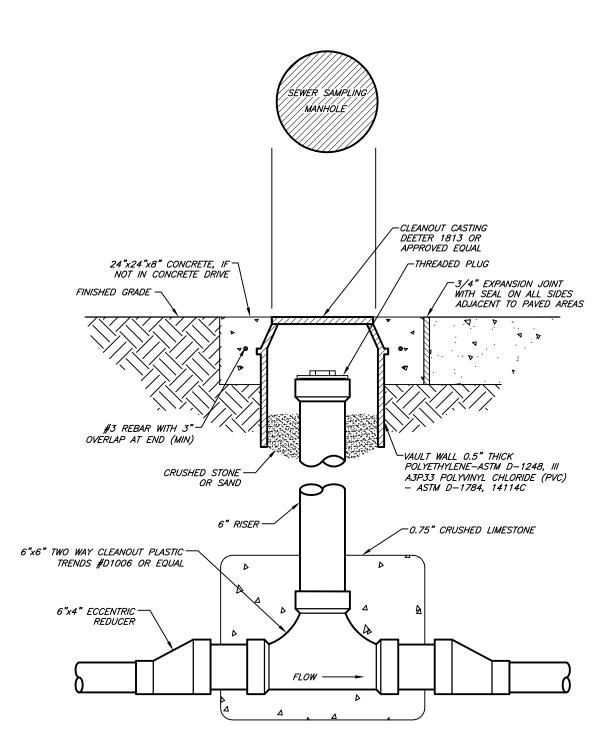
REVISION:

A6.1

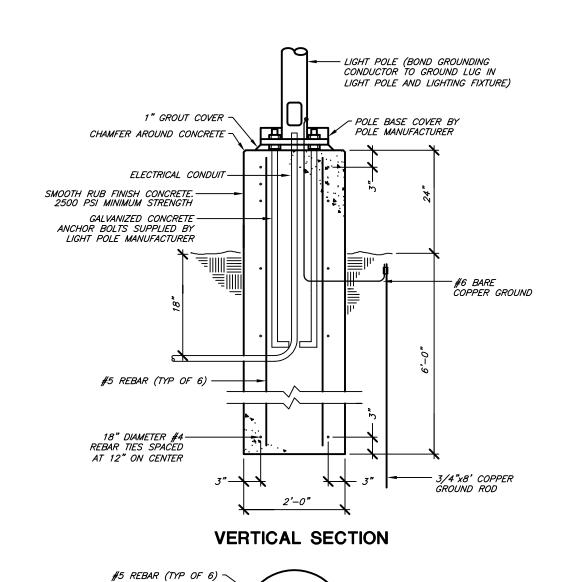
TRASH ENCLOSURE

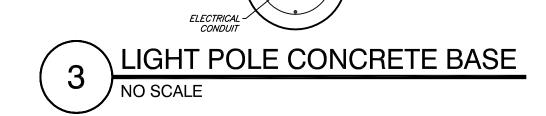
DETAILS

DATE: APRIL 22, 2022

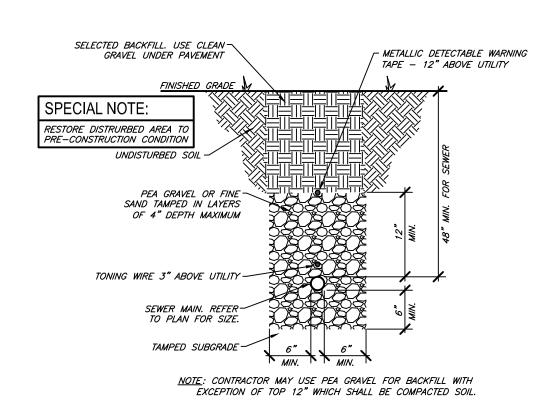


FINISH GRADE SAMPLING MANHOLE DETAIL NO SCALE

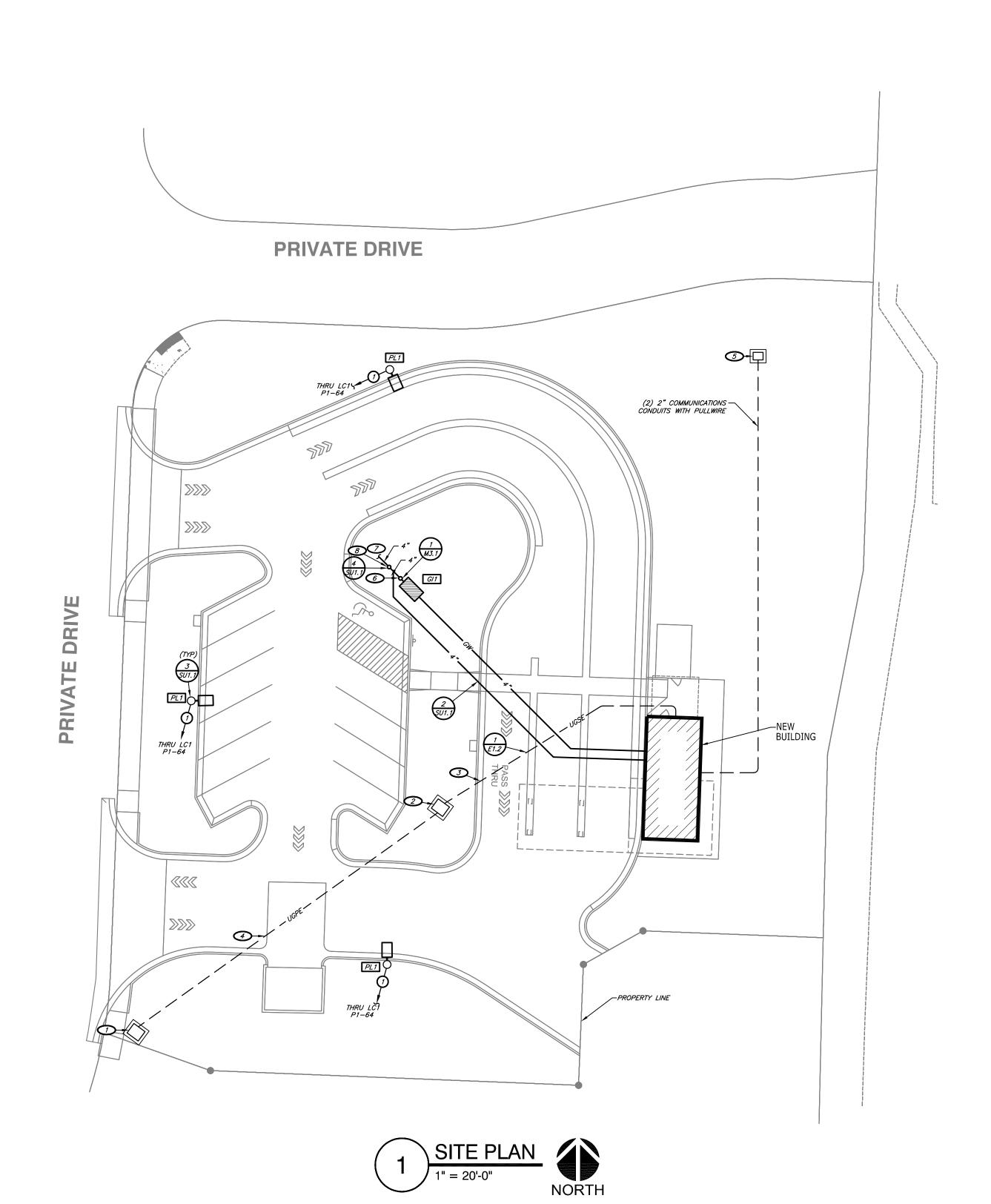




#4 REBAR TIES AT 12" ON CENTER,— TOP (3) AT 3" ON CENTER — ANCHOR BOLTS BY LIGHT FIXTURE MANUFACTURER



2 SEWER TRENCH DETAIL
NO SCALE



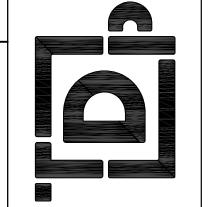
KEYNOTES:

- EXISTING PRIMARY JUNCTION BOX IN THIS AREA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY.
- 2 PADMOUNT 120/240-VOLT SINGLE-PHASE TRANSFORMER BY UTILITY COMPANY.
 CONCRETE PAD BY CONTRACTOR. EXACT LOCATION SHALL BE FIELD
 DETERMINED/COORDINATED.
- 3 SECONDARY CONDUIT AND CONDUCTORS BY CONTRACTOR. FIELD COORDINATE EXACT ROUTINGS.
- PRIMARY CONDUITS AND CONDUCTORS BY UTILITY COMPANY. VERIFY EXACT ROUTING, TERMINATION LOCATION, AND REQUIREMENTS WITH THE UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY FOR CONDUCTOR/CONDUIT SIZES.
- 5 PROVIDE 18x18 2-BOLT, OPEN BOTTOM, HEAVY DUTY PULL BOX EQUIVALENT TO HUBBELL-QUAZITE MODEL DT121212GSN. "COMMUNICATIONS" SHALL BE INSCRIBED ON THE LID. INSTALL TOP OF BOX FLUSH WITH FINISH GRADE. PROVIDE EXTENSION AS REQUIRED TO MATCH CONDUIT BURIAL DEPTH. VERIFY/COORDINATE EXACT SERVICE LOCATION AND ALL REQUIREMENTS WITH SERVICE PROVIDER(S) PRIOR TO CONDUIT AND COMMUNICATION BOX INSTALLATION.
- 6 4" WASTE UP TO FINISH GRADE CLEANOUT.

 7 REFER TO CIVIL PLAN FOR CONTINUATION.
- 8 4" WASTE UP TO SAMPLING MANHOLE.

CONDUIT & CONDUCTOR SCHEDULE:

(2) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.



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GENERAL NOTES:

- UTILITY ROUTINGS ARE DIAGRAMMATIC. ADJUST EXACT ROUTING TO ACCOMMODATE FIELD CONDITIONS. REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR NEW SEWER, WATER AND STORMWATER PIPING.
- P. REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR LOCATION AND COORDINATION OF ALL EASEMENTS.
- 3. REVIEW ALL CIVIL AND PUBLIC IMPROVEMENT PLANS AND COORDINATE ALL WORK WITH DIFFERENT DISCIPLINES. REVIEW AND OBTAIN APPROVAL FROM CITY UTILITIES AND CITY OF SPRINGFIELD PRIOR TO PERFORMING ANY UTILITY WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
 NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS. PLANS ARE
 DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS
 FOR DIMENSIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING TEMPORARY TELEPHONE, ELECTRICAL AND WATER SERVICES REQUIRED DURING CONSTRUCTION, AND SHALL PAY ALL
- 6. THE CONTRACTOR SHALL CONTACT EVERGY AT (888) 471-5275 AND ARRANGE FOR ELECTRICAL SERVICES AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL FEES, CHARGES, ETC. INCURRED BY THE UTILITY COMPANY INTO BID. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS REQUIRED BY THE LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH TELECOMMUNICATIONS
 AND CABLE TELEVISION SERVICE PROVIDERS TO FACILITATE AND SCHEDULE INSTALLATION OF
 SERVICES. CONTRACTOR SHALL COORDINATE WITH OWNER FOR SERVICE PROVIDER CONTACT.
 THE OWNER SHALL BE RESPONSIBLE FOR ALL COSTS, CHARGES, FEES, ETC. INCURRED BY
 SERVICE PROVIDERS. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR
 SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF
- 2. ALL SITE ELECTRICAL INSTALLATIONS AND CONSTRUCTION SHALL BE PER THE MOST RECENT REVISIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NESC) AND THE NATIONAL ELECTRIC CODE (NEC) STANDARDS AND SPECIFICATIONS.
- 9. COORDINATE ALL TRANSFORMER LOCATIONS WITH OTHER UTILITIES INDICATED ON CIVIL PLANS.
- 10. REFER TO CIVIL PLANS FOR ALL SITE SANITARY SEWER WORK.

SITE UTILITIES SYMBOLS:

OHE OVERHEAD ELECTRIC

UNDERGROUND PRIMARY ELECTRIC

UNDERGROUND SECONDARY ELECTRIC

UNDERGROUND TELECOMMUNICATIONS

UNDERGROUND CABLE TV

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ENGINEER OF RECORD:

NAME: RYAN JONES

LICENSE NO.PE-2004017193

PROJECT NUMBER: 21334 7BSM

REVISION:



CJD 1

Engineering | Energy | Innovation

2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807

P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com

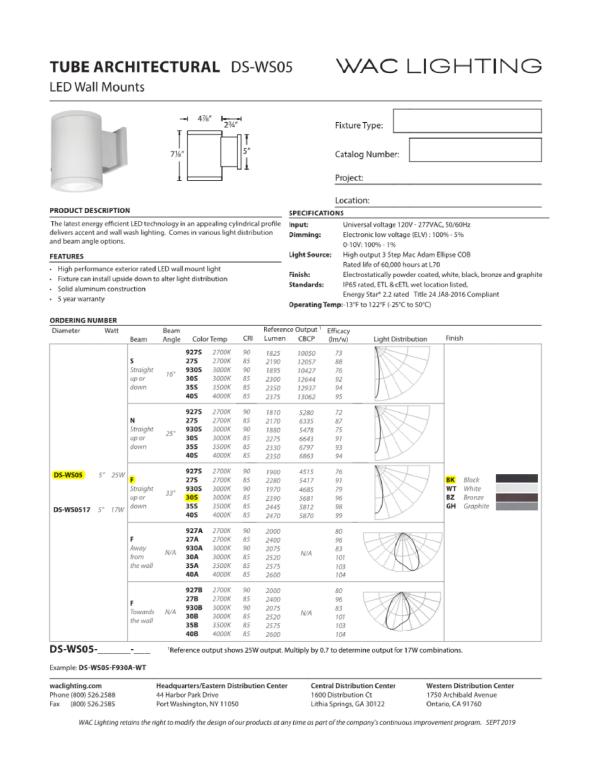
Missouri State Certificate of Authority #2005026903

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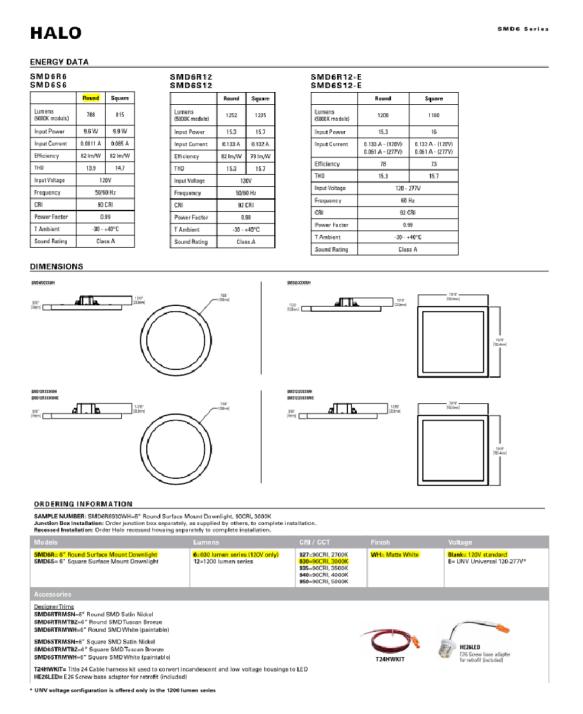
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SITE UTILITIES
PLAN
DATE: APRIL 26, 2022

WARRANTY – 5-year limited warranty, see hew.com/warranty.

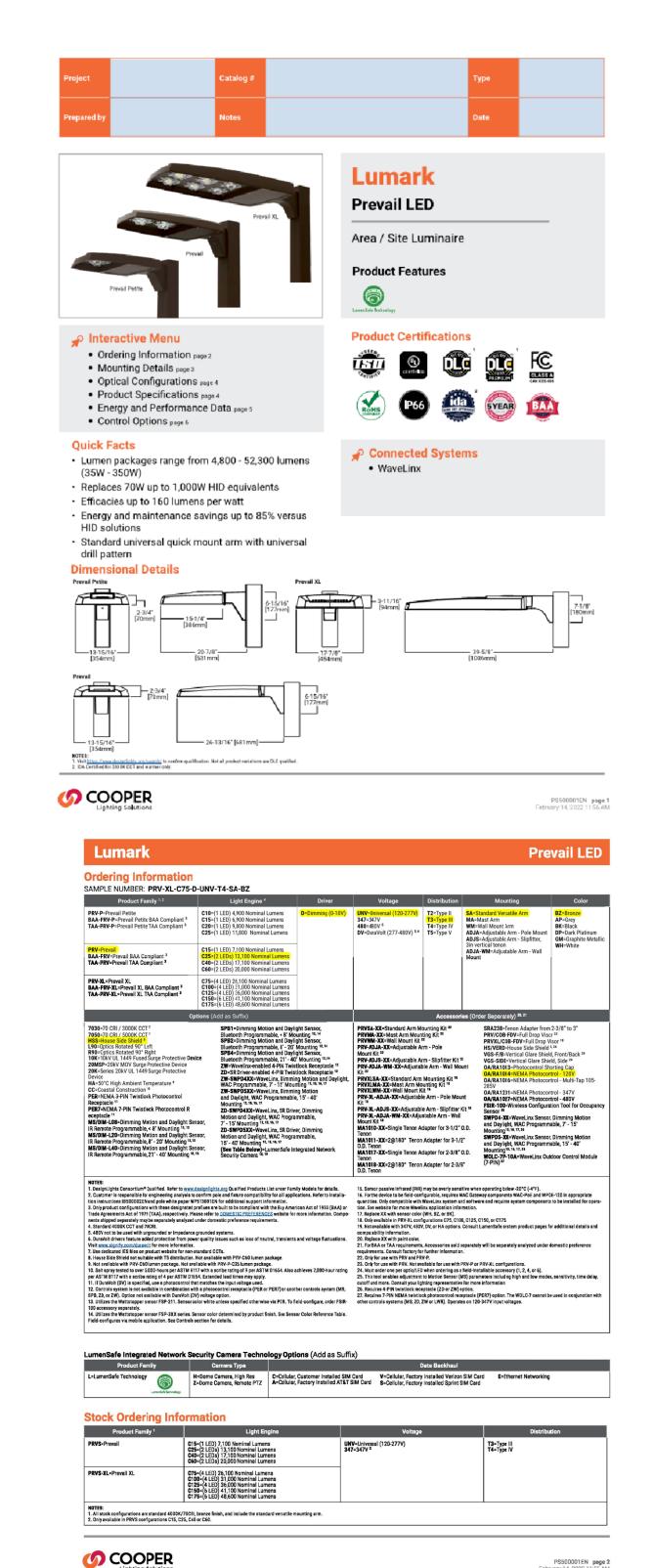




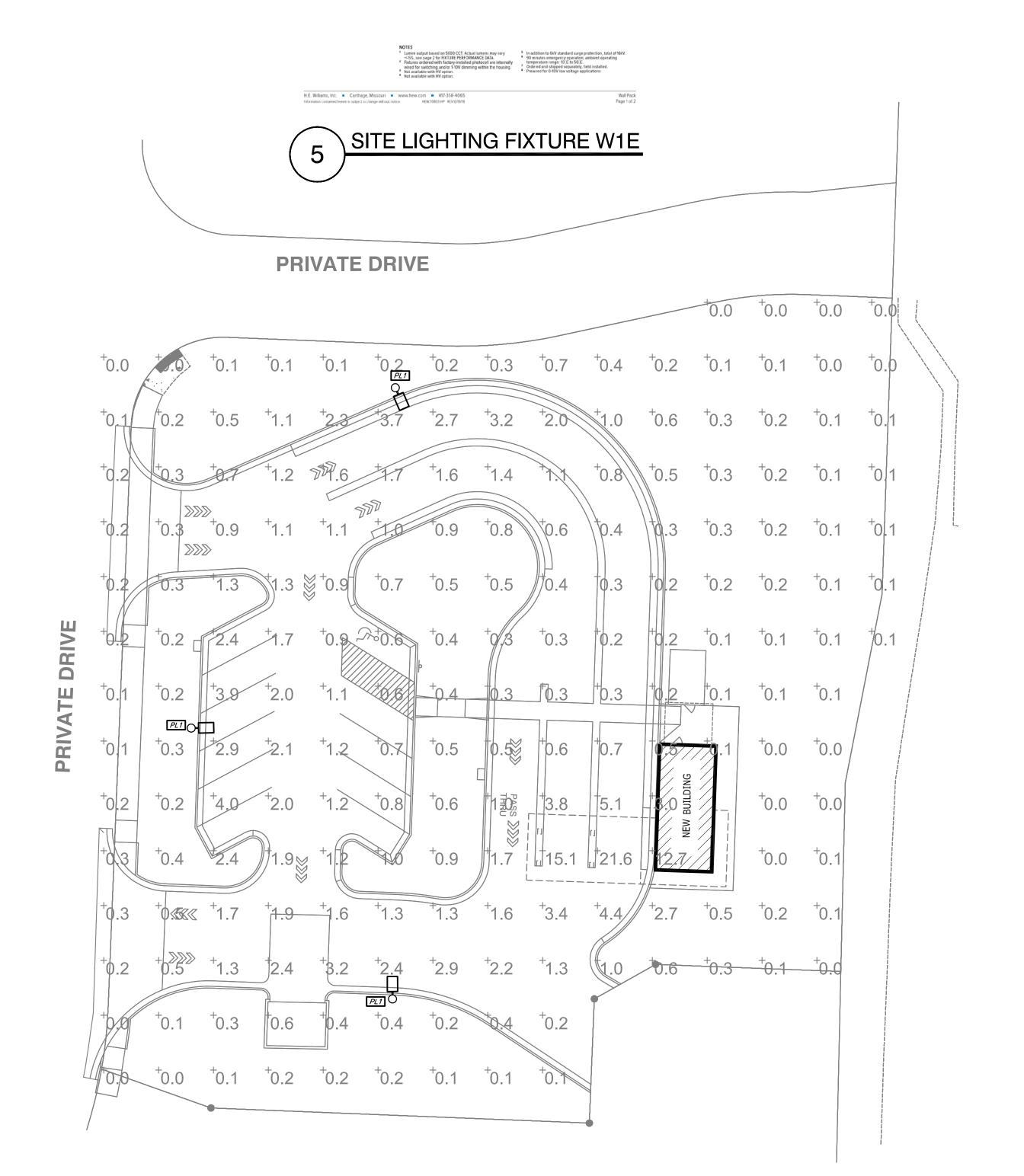




COOPER











SITE PHOTOMETRIC PLAN **DATE:** APRIL 26, 2022

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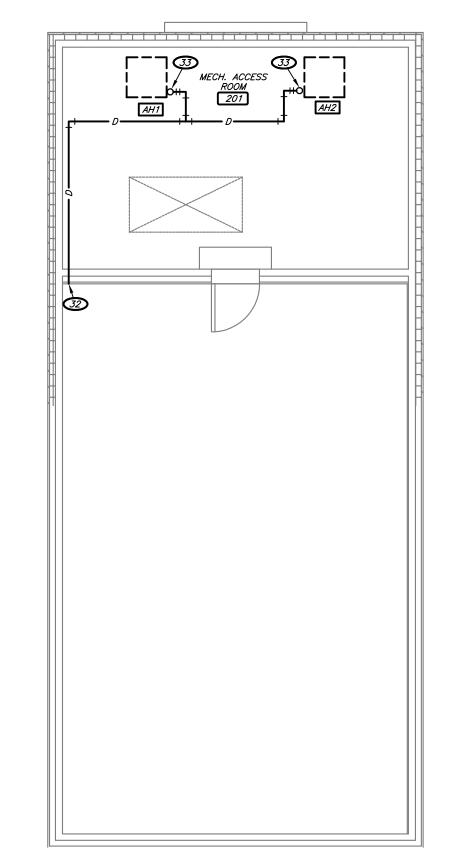
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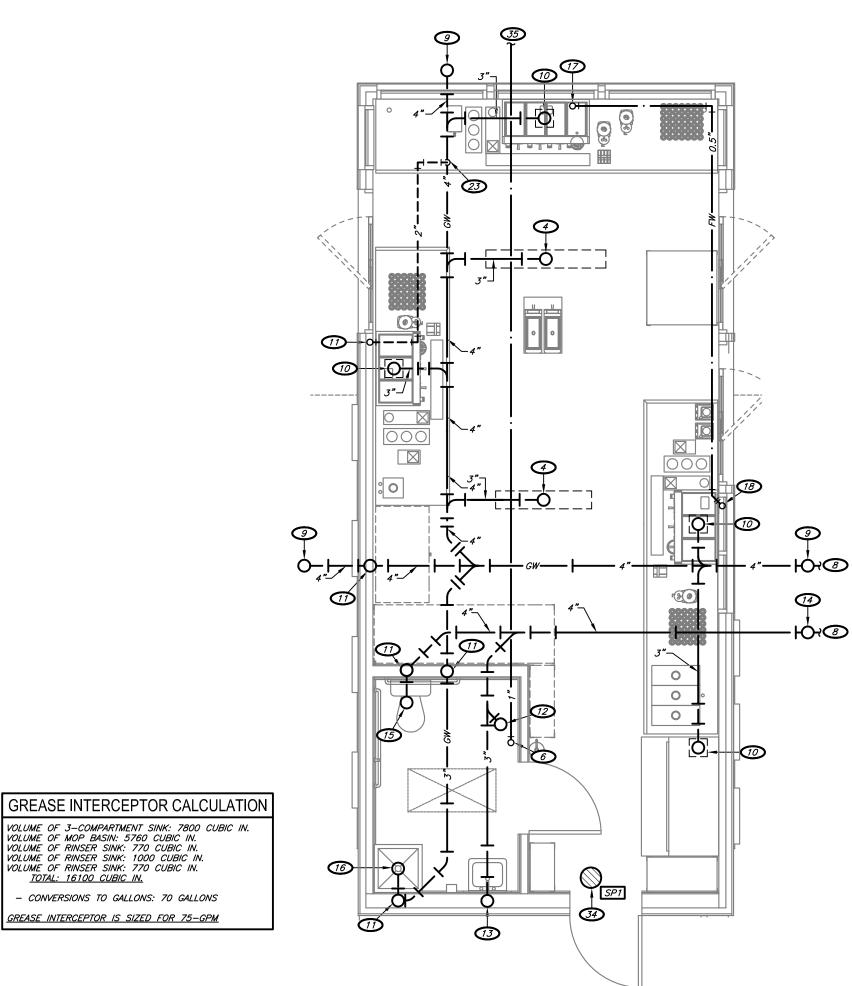
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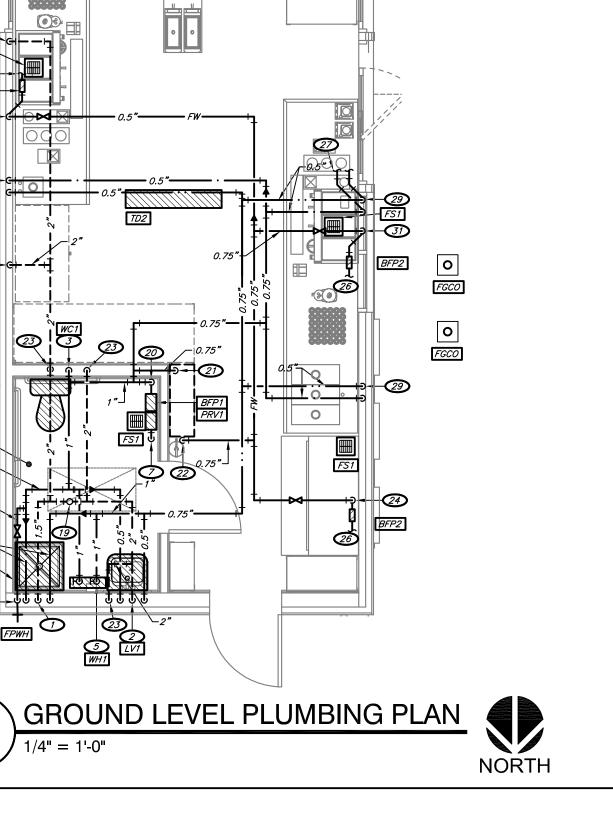
PROJECT NUMBER: 21334 7BSM

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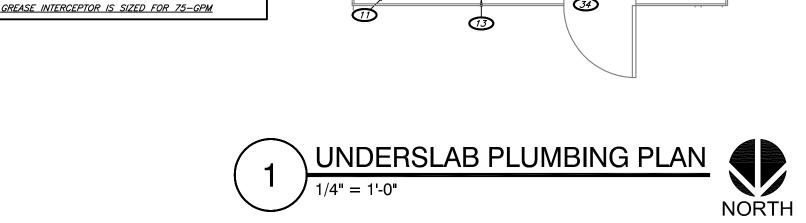


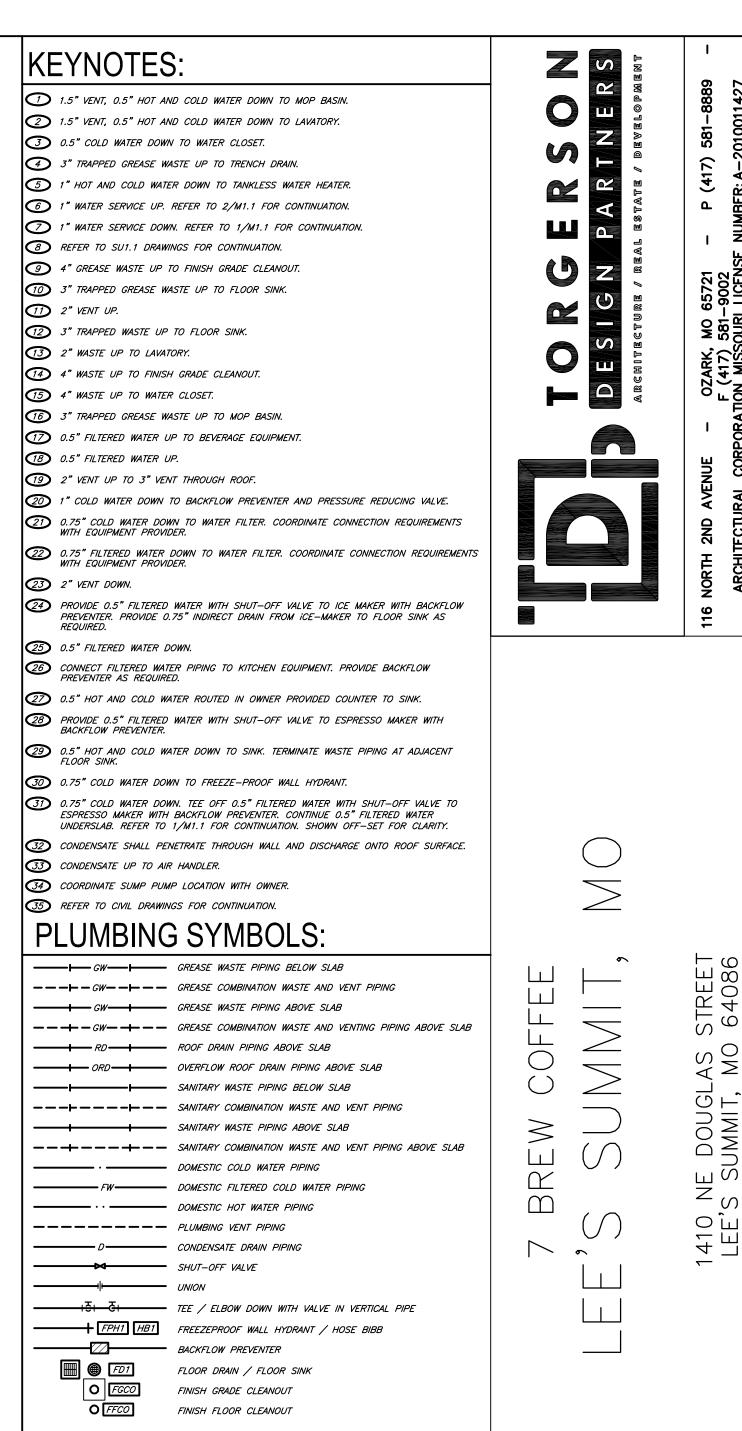


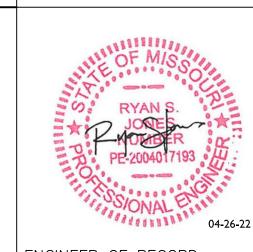


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0.75**"**—







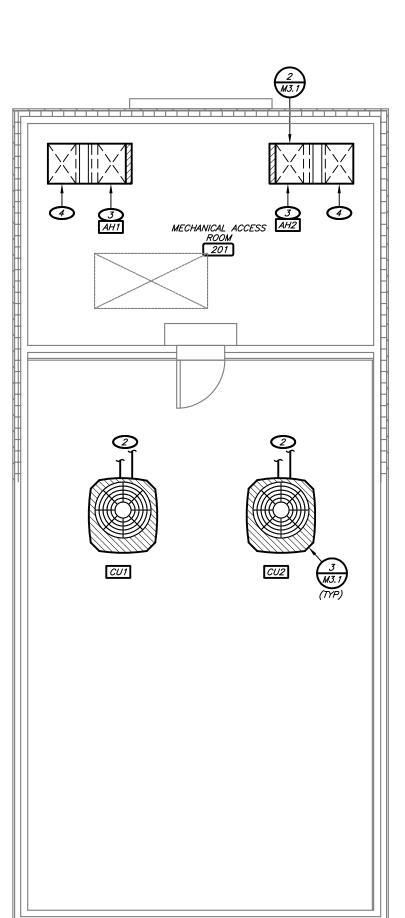
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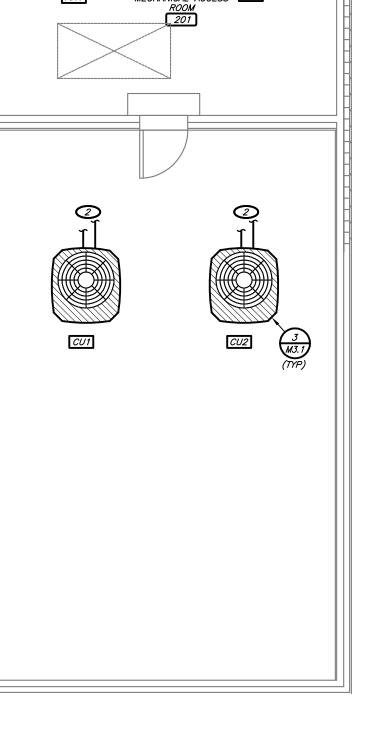
PROJECT NUMBER: 21334 7BSM

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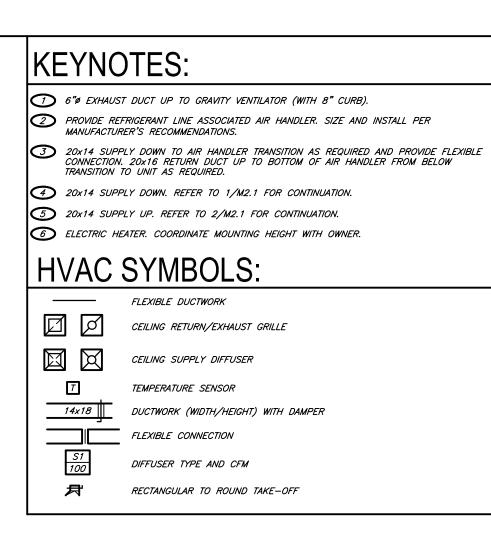
Engineering | Energy | Innovation $2225\ West$ Chesterfield Boulevard, Suite 200, Springfield, MO 65807P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903 Special notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory law and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whoseever changes the design without prior written approved from CJD LLC, does so at their own risk and assumes full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law. PLUMBING PLAN

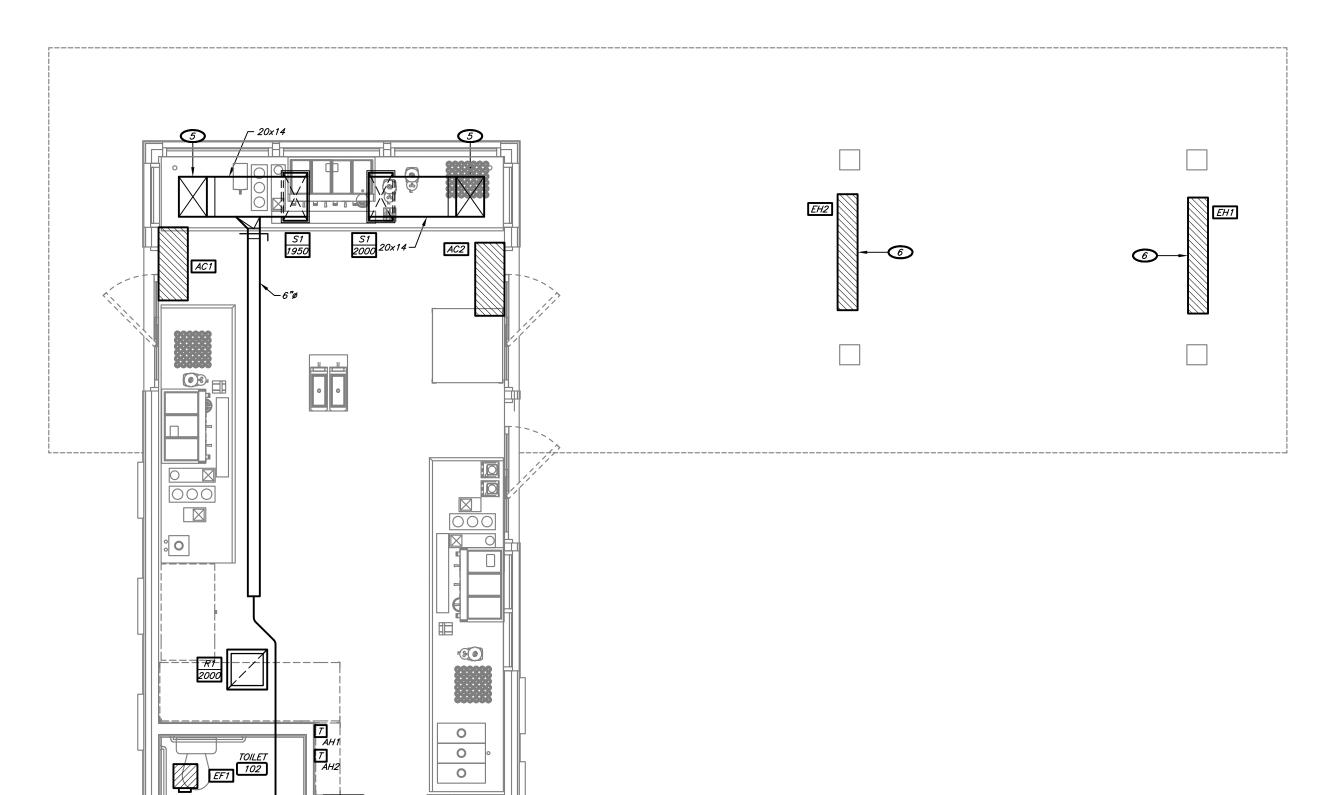
DATE: APRIL 26, 2022



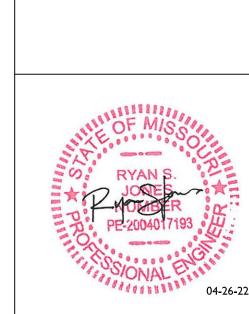


PARTIAL ROOF AND ATTIC HVAC PLAN









ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

PROJECT NUMBER: 21334 7BSM

REVISION:

Engineering | Energy | Innovation 2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807 P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903

M2.1HVAC PLAN

DATE: APRIL 26, 2022

PIPING MATERIAL SCHEDULE													
			PIPI	ING			F	TITTINGS	MAXIMUM WORKING		FIELD TEST		
SYSTEM		TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (DEG. F)	PRESSURE (PSI)	TIME (HOURS)	NOTES
DOMESTIC WATER ABOVE AND BELOW GRADE	0.5"-2"	PEX	-	-	A877	PEX	BRONZE	MJ	120	40-180	150	1	-
GREASE WASTE AND VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
GREASE WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE & VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	М	-	-	B88	COPPER	COPPER	DR/SJ	10 FT	40-70	10 FT	1	-

. USE OF CELLULAR CORE DWV PIPING IS STRICTLY PROHIBITED.

ABBREVIATIONS: CI - CAST IRON

CS - CARBON STEEL CW - CONTINUOUS WELD DI - DUCTILE IRON

DR - DRAINAGE FITTING DWV - DRAINAGE WASTE AND VENT MI - MALLEABLE IRON MJ - MECHANICAL JOINT

NH - NO-HUB - 95-5 TIN-ANTIMONY SOLDER JOINT - STANDARD STRENGTH / SERVICE WEIGHT SW - SOLVENT WELD

			PLUM	BING FIXTURE & EQUIPMENT SCHED	ULE					
					PIF	PING CONN	ECTION SIZE	ES		
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ACCESSORIES	COLD WATER	HOT WATER	WASTE	VENT	NOTES	EQUIVALENT MANUFACTURERS
BFP1	BACK FLOW PREVENTER	WATTS	LF009	LEAD FREE BNRONZE CONSTRUCTION, TWO IN LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.	1"	-	-	-	-	FEBCO
BFP2	BACKFLOW PREVENTER	WATTS	SD-3	DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINES	0.5"	-	-	-	-	FEBCO
TD1	FLOOR DRAIN	-	-	CUSTOM STAINLESS STEEL TRENCH DRAIN BY OWNER	-	-	SEE PLAN	SEE PLAN	2	ZURN
TD2	FLOOR DRAIN	-	-	CUSTOM STAINLESS STEEL TRENCH DRAIN BY OWNER	-	-	SEE PLAN	SEE PLAN	2	ZURN
FGCO	FINISH GRADE CLEANOUT	ZURN	ZN1400-HD	-	-	-	SEE PLAN	-	-	SIOUX CHIEF, SMITH, WADE
FPWH	FREEZE-PROOF WALL HYDRANT	JAY R. SMITH	#5609	NICKEL BRONZE-FACE, KEY OPERATED, INTEGRAL VACUUM BREAKER	0.75"	-	-	-	3	SMITH, WOODFORD
FS1	FLOOR SINK	JAY R. SMITH	#3161	CAST IRON RECEPTOR, A.R.E. INTERIOR 12"x12" NICKEL BRONZE STRAINER, SEDIMENT BUCKET.	-	-	3"	SEE PLAN	1	-
GI1	GREASE INTERCEPTOR	SCHIER	GB-75	75 GPM, 125 GALLON CAPACITY, 616 lbs. GREASE CAPACITY, PEDESTRIAN RATED COVER, PROVIDE 24" COVER RISER.	-	-	4"	-	-	SUBMIT FOR APPROVAL
LV1	WALL HUNG ADA LAVATORY	AMERICAN STANDARD	#355.012	#2385.130 FAUCET, WITH SINGLE METAL LEVER HANDLE #7723.018, 1.25" TAILPIECE AND TRAP, SUPPLIES AND STOP VALVES, INSULATE WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION. PROVIDE WATTS LFUSG-B MIXING VALVE.	0.5"	0.5"	2"	1.5"	1,3,	CRANE, KOHLER, TOTO, ZURN
MB1	MOP BASIN	FIAT	MSB-2424	830-AA FAUCET, 838-AA HOSE AND BRACKET, 889-CC MOP HANGER, MSG2424 WALL GUARD	0.5"	0.5"	3"	1.5"	1	STERN WILLIAMS
PRV1	PRESSURE REDUCING VALVE	CASH ACME	EB25	SET TO MAX DELIVERY PRESSURE OF 80-PSI.	SEE PLAN	-	-	-	-	FEBCO, WILKINS
WC1	ADA FLUSH TANK WATER CLOSET	AMERICAN STANDARD	2467.016	1.6 GALLON FLUSH, 16.5" HIGH ELONGATED BOWL, FLOOR MOUNTED, TANK TYPE, VITREOUS CHINA, OPEN FRONT SEAT WITH CHECK HINGE AND LESS COVER. CHROME PLATED ANGLE STOP AND RISER. HANDLE ON WIDE SIDE OF FIXTURE.	0.5"	-	4"	2"	1,4	ELJER, KOHLER, TOTO

- ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
- FIELD COORDINATE/VERIFY FRAMING ROUGH-IN DIMENSIONS WITH ASSOCIATED CONTRACTOR BEFORE ORDERING. PROVIDE WALL CARRIER OR BRACKET AS RECOMMENDED BY MANUFACTURER FOR WALL MOUNTED INSTALLATION.

							PUI	MP S	CHE	DUL	E						
MARK	MANUFACTURER	SERIES	INLET	DISCH.	GPM	HEAD (FT.)	NPSH	TYPE	WORKING CLASS	H.P.	RPM	VOLTAGE/ PHASE	CONST.	FLUID TYPE	FLUID TEMP.	NOTES/ ACCESS.	EQUIVALENT MANUFACTURERS
SP1	ZOELLER	1043-0006	-	1"	35	20	-	SUMP	-	1/3	-	115/1	CI	WATER	40-140	1	LITTLE GIANT, WEIL
NOTES/A	ACESSORIES:																

PROVIDE ZOELLER 30-0152 CHECK VALVE INSTALLED ON PUMP DISCHARGE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ABBREVIATIONS: NPSH - NET POSITIVE SUCTION HEAD

CW - CHILLED WATER HW - CHILLED/HOT WATER

. THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-5

DRAIN VALVE WITH THREADED HOSE CONNECTION

3. PRESSURE & TEMPERATURE RELIEF VALVE

MARK MANUFACTURER

WH1 RHEEM

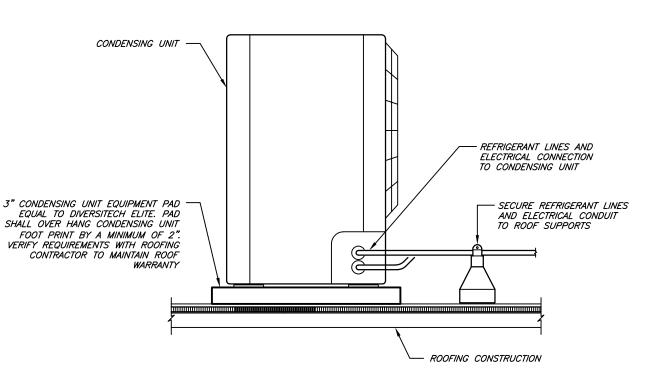
ACCESSORIES:

CDW - CONDENSER WATER HW - HEATING HOT WATER DHW - DOMESTIC HOT WATER

AB - ALL BRONZE

BFCI - BRONZE FITTED CAST IRON AS - AQUASTAT KIT BMES - BASE MOUNTED END SUCTION

V	VAT	ER HE	EATER	SCHEE	DULE	
MODEL#	TYPE	GALLON CAPACITY	RECOVERY GPH @ 85F	KW	VOLTAGE/ PHASE	ACCESSORIES
RTEX-18	ELEC	-	-	18.0	240/1	1,2,3



ROOF MOUNTED CONDENSING UNIT DETAIL NO SCALE

GRAVITY VENTILATOR SCHEDULE DELTA P THROAT AREA FACE AREA FACE VELOCITY NOTES AND MARK MANUFACTURER (STATIC) MIN (SQ.FT.) MIN (SQ.FT.) (FPM) ACCESSORIES PR8 EXHAUST 75 0.1" 0.394 COOK 1.38 54.3 1,2,3,4 NOTES AND ACCESSORIES: 1. FACTORY FABRICATED INSULATED ROOF CURB WITH CUSTOM HEIGHT OF 14" MINIMUM ABOVE FINISH ROOF SURFACE.

	AIR I	HANDLE	ER/C	OIL/C	CONDE	NSING	UNIT S	SCHE	DULE	=
AIR HANDLE	ER									
MARK	MANUFACTURER	MODEL#	SA (CFM)	OA (CFM)	EXTERNAL STATIC	ELEC HEAT (KW/STAGES)	VOLTAGE/ PHASE	MCA	МОСР	NOTES
AH1	OMNIGUARD	BCE5E60	1810	-	0.5"	14.4/1	240/1	96	100	1,2,3,4,5
AH2	OMNIGUARD	BCE5E60	1810	-	0.5"	14.4/1	240/1	96	100	1,2,3,4,5
		·			·	·	<u> </u>			

<u>R HANDLER NOTES:</u>
EXTERNAL STATIC PRESSURE INCLUDES WET COIL, EXCLUDES FILTER LOSS. PROVIDE FRONT ACCESSIBLE FILTER RACK AND 2" FILTER EQUAL TO FARR 30/30 WITH MERV 7 MINIMUM RATING. PROVIDE SINGLE POINT POWER CONNECTION WITH CIRCUIT BREAKER DISCONNECTING MEANS. PROVIDE ENERGY STAR RATED 7-DAY PROGRAMMABLE THERMOSTAT.

PROVIDE WATER LEVEL MONITORING DEVICE IN DRAIN CONNECTED TO FAN SHUT DOWN RELAY IN AIR HANDLER.

		EVAP. COIL	COND. UNIT	ENTERING	SENSIBLE	TOTAL	VOLTAGE/			
MARK	MANUF	MODEL#	MODEL#	AIR DB/WB	МВН	MBH	PHASE	MCA	MOCP	NOTES
CU1	OMNIGUARD	W/ AHU	4AC16L60P-50	80 / 67	45.4	60.5	240/1	29.6	50	1,2,3
CU2	OMNIGUARD	W/ AHU	4AC16L60P-50	80/67	45.4	60.5	240/1	29.6	50	1,2,3

PROVIDE REFRIGERANT LINE SET(S) SIZED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL REFRIGERATION SYSTEM ACCESSORIES REQUIRED BY MANUFACTURER FOR GIVEN LINE SET ROUTING

PROVIDE LOW AMBIENT CRANK CASE HEATER (10 DEG. F)

				AIR (CURT	AIN SO	CHED	ULE				
M	ARK	MANUFACTURER	MODEL#	MOUNTING	HEATING (KW)	AMCA LAB AIRFLOW (SCFM)	NOZZLE WIDTH	MAX. VELOCITY @ NOZZLE (FPM)	VOLTAGE/ PHASE	MCA	МОСР	NOTES
Α	AC1	STRONGWAY	49947	WALL	-	816	36"	3,937	120/1	2.9	15	1 THRU
Α	AC2	STRONGWAY	49947	WALL	-	816	36"	3,937	120/1	2.9	15	1 THRU

- PROVIDE FACTORY INSTALLED DISCONNECT.
- FACTORY INSTALLED UNIT MOUNTED CONTROLS WITH TWO SPEED CONTROL. MAGNETIC DOOR LIMIT SWITCH.

PROVIDE COUNTER BALANCE BACKDRAFT DAMPER.

PROVIDE ANTI-CONDENSATE COATING.

PROVIDE BIRD SCREEN.

- FACTORY MOUNTED MOTOR CONTROL PANEL CLEANABLE FILTER.
- FIELD COORDINATE EXACT MOUNTING REQUIREMENTS AND PROVIDE ALL REQUIRED ACCESSORIES
- UNIT SHALL BE RATED FOR OUTDOOR CONDITIONS COORDINATE FINISH WITH OWNER.

				FAN S	SCHED	ULE				
MARK	MANUFACTURER	MODEL#	CFM	ESP (IN. W.C.)	MOUNTING	FINISH	DAMPER	VOLTAGE/ PHASE	MOTOR HP/WATTS	NOTES
EF1	соок	GC-146	75	0.25"	CEILING	STD	-	120/1	31W	1,2,3
NOTES	TODY MOUNTED DIS	CONNECTING MEAN	10							

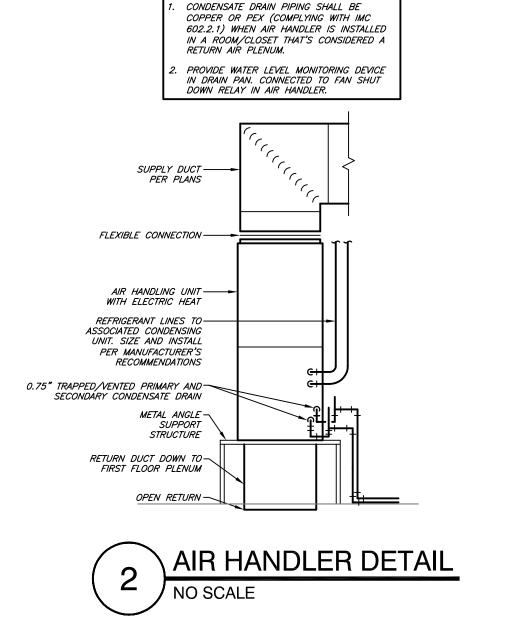
GRAVITY BACKDRAFT DAMPER.

PROVIDE FACTORY MOUNTED DISCONNECTING MEANS.

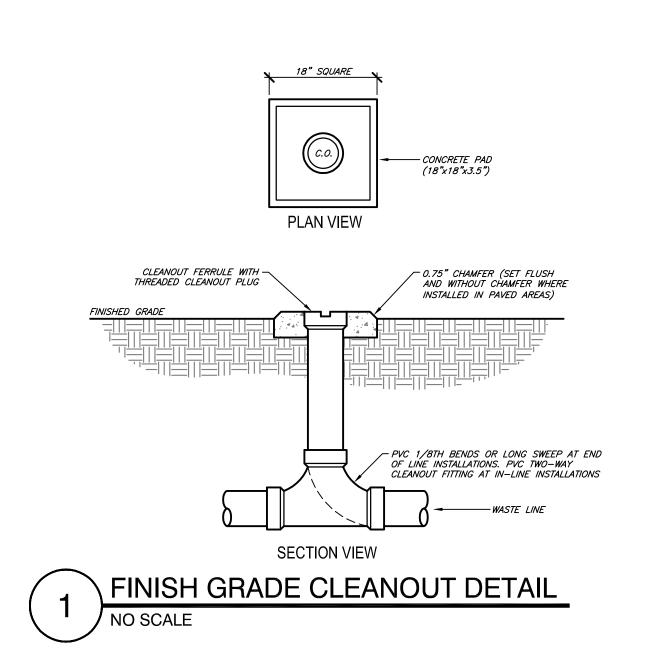
PROVIDE BIRD SCREEN.

		ELECT	RIC HE	ATE	R S	CHEC	ULE			
MARK	MANUFACTURER	MODEL#	MOUNTING	FINISH	CFM	HEATING (WATTS)	VOLTAGE/ PHASE	MCA	моср	NOTES
EH1	INFRATECH	CL3024SS	SUSPENDED	ARCH	-	3000	240/1	12.5	20	1
EH2	INFRATECH	CL3024SS	SUSPENDED	ARCH	-	3000	240/1	12.5	20	1
EH3	INFRATECH	CL3024SS	SUSPENDED	ARCH	-	3000	240/1	12.5	20	1
NOTES:						·	·			·

			AIR DE\	/ICE S	SCHE	DULE						
MARK	MANUFACTURER	MODEL#	DUCT CONNECTION SIZE	SERVICE	MODULE SIZE	FRAME	FINISH	DAMPER	MAX. NC	THROW (FT)	DELTA P (STATIC)	NOTES
S1	OWNE	ER PROVIDED	12x24: 0-2000 CFM	SUPPLY	-	SURFACE	WHITE	-	30	20	0.1"	-
S2	OWNE	ER PROVIDED	6": 0-75 CFM	SUPPLY	-	SURFACE	WHITE	-	30	20	0.1"	-
R1	OWNE	ER PROVIDED	22x22: 0-2000 CFM	RETURN	-	SURFACE	WHITE	-	30	-	0.1"	-
NOTES:												



SPECIAL NOTE:



GENERAL MECHANICAL NOTES: GENERAL MECHANICAL NOTES:

- GENERAL MECHANICAL NOTES APPLY TO ALL MECHANICAL SHEETS. CJD ENGINEERING LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS
 RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY
 ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTOR'S OWN INTERPRETATION
- AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CJD ENGINEERING LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E. THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR'S SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE BUILDING CODE COMPLIANT SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
- DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE CONSTRUCTION

 DOCUMENTS AS A WHOLE AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE DOCUMENTS AND
- SHOULD BE REVIEWED WITH EACH FOR OVERALL SCOPE OF WORK. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED PLUMBING AND MECHANICAL
- CONTRACTORS AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING, PLUMBING, FUEL GAS AND MECHANICAL CODES, AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL, AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY
- PIPING AND DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, LIGHT FIXTURES, CONDUITS, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWING
- COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- MAINTAIN ALL CLEARANCES REQUIRED BY PLUMBING AND HVAC EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- 12. IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CJD ENGINEERING LLC NOT LES THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTION OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY

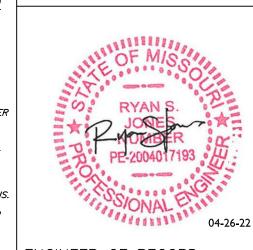
AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM THE SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSÉD

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WIRING, CONDUIT, ENCLOSURES, CONTROL AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF DESIGN AT NO COST TO OWNER OR A/E.
- THE CONTRACTOR SHALL PROVIDE ELECTRONIC SHOP DRAWINGS/SUBMITTALS OF ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL PERFORM A PRELIMINARY FUNCTIONAL TEST AND BALANCE FOR ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL THEN OBTAIN THE SERVICES OF AN INDEPENDENT FIRM CERTIFIED WITH ASSOCIATED AIR BALANCING COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU TO PERFORM THE HVAC SYSTEM TESTING AND BALANCING IN ACCORDANCE WITH AABC OR NEBB NATIONAL
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES, DUCTWORK, EQUIPMENT, PIPING, ETC. ARE INCLUDED IN THE BID

<u>PRODUCTS</u>

- ALL SHUTOFF VALVES ON DOMESTIC WATER SHALL BE BRONZE FULL-PORT BALL VALVE
- P-TRAPS SHALL INCLUDE INTEGRAL CLEANOUT.
- DUCT CONSTRUCTION: ALL DUCTWORK SHALL BE FABRICATED OF G90 GALVANIZED STEEL AND INSTALLED IN
- ACCORDANCE WITH THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE MANUAL. ALL SUPPLY AND RETURN AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM. CONCEALED ROUND SUPPLY AIR DUCT — 3" PRESSURE CLASS OR LESS: GALVANIZED SNAP—LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED. WRAP SUPPLY AND OUTSIDE AIR DUCTS WITH SPECIFIED INSULATION.
- CONCEALED ROUND RETURN AND EXHAUST DUCT 3" PRESSURE CLASS OR LESS: GALVANIZED SNAP—LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED WITH SPECIFIED INSULATION.
- RECTANGULAR SUPPLY AND RETURN AIR DUCT: 3" PRESSURE CLASS OR LESS: GALVANIZED SHEET METAL. LINE SUPPLY, RETURN, OUTDOOR AIR AND MAKE—UP AIR DUCTWORK WITH SPECIFIED INSULATION.
- FLEXIBLE DUCTWORK: FLEXMASTER USA TYPE 8B, UL 181 CLASS 1 RATED PRE-INSULATED ACOUSTICAL FLEX DUCT WITH MECHANICAL LOCK HELIX CONSTRUCTION, 25/50 FLAME SMOKE RATING, AND R-6.0 THERMAL BARRIER. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 LINEAR FEET. FLEXIBLE DUCT SHALL NOT BE USED ON SYSTEMS
- WITH PRESSURE CLASS GREATER THAN 1". EXTERIOR DUCTWORK SHALL HAVE FLANGED AND GASKETED JOINTS BY DUCTMATE OR
- ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. PROVIDE ADDITIONAL HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION DUCT INSULATION:
- RECTANGULAR DUCT (LOCATED WITHIN CONDITIONED SPACE): 1.0" THICK, 2.0 LB. DENSITY DUCT LINER. MINIMUM R-Value OF 6.0. ROUND DUCT: WRAP WITH 2", 1.0 LB DENSITY FIBERGLASS DUCT WRAP WITH FOIL—SCRIM—KRAFT FACING. MINIMUM R—VALUE OF 6.0.
- ALL DUCTWORK LOCATED WITHIN AN ATTIC OR UNCONDITIONED SPACE SHALL BE WRAPPED TO PROVIDE A MINIMUM INSULATION VALUE OF R-8.
- ROUND TAKE—OFF FITTINGS FROM RECTANGULAR DUCTWORK SHALL BE MADE WITH BUCKLEY AIR PRODUCTS MODEL 3300 AND 3300D RECTANGULAR TO ROUND BOOT FITTINGS FITTINGS WITH INTEGRAL VOLUME DAMPERS AND INSULATION STAND-OFFS WHERE INDICATED.

 EQUIVALENT BY AIR-TITE AND CROWN.
- PROVIDE AERO-DYNE OR EQUIVALENT DOUBLE WALL TURNING VANES IN ALL RECTANGULAR
- BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE. EQUIVALENT WATER HEATERS BY A.O. SMITH, BRADFORD WHITE, LOCHINVAR, RHEEM, STATE,
- OR OTHERS WITH PRIOR APPROVAL. EQUIVALENT GRILLES, DIFFUSERS AND REGISTERS BY CARNES, KRUEGER, NAILOR, PRICE, TITUS, HART & COOLEY, TUTTLE & BAILEY, OR OTHERS WITH PRIOR APPROVAL.
- EQUIVALENT EXHAUST FANS BY ACME, COOK, GREENHECK, PENN, OR OTHERS WITH PRIOR EQUIVALENT FURNACES, EVAPORATOR COILS AND CONDENSING UNITS BY CARRIER, TRANE AND YORK, AND SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
- **EXECUTION** PROVIDE ALL ACCESSORIES, COMPONENTS, ETC. REQUIRED FOR COMPLETE INSTALLATION OF
- PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, ETC. FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO SPECIAL EQUIPMENT DRAWINGS FOR ADDITIONAL
- INSULATE ALL DOMESTIC WATER AND REFRIGERANT PIPING WITH 1/2" THICK ARMACELL AP/ARMAFLEX FLEXIBLE ELASTOMERIC THERMAL PIPE INSULATION. EQUIVALENT BY RUBATEX. THE USE OF TUBOLIT OR EQUIVALENT CLOSED CELL POLYETHYLENE FOAM INSULATION IS
- INSTALL TRAPS AT WASTE CONNECTIONS TO ALL FLOOR DRAINS AND OTHER PLUMBING
- FIXTURES WITHOUT A TRAP INTEGRAL TO THE FIXTURE. INSTALL WATER AND WASTE PIPING BELOW SLAB AND BELOW GRADE ON TOP OF A 6" BED OF PEA GRAVEL, WITH 6" PEA GRAVEL ON SIDES AND TOP OF PIPING.
- PROVIDE TRAPPED AND VENTED CONDENSATE DRAIN CONNECTION TO ALL HVAC EQUIPMENT WHERE REQUIRED. EXTEND FULL SIZE TO NEAREST ROOF DRAIN, FLOOR DRAIN, OR MOP SEAL ALL DUCTWORK IN ACCORDANCE WITH THE LATEST SMACNA METAL AND FLEXIBLE
- DUCT CONSTRUCTION STANDARDS MANUAL. AT A MINIMUM, LOW STATIC PRESSURE DUCTS SHALL BE SEALED WITH WATER, SOLVENT OR SILICONE BASED SEALANT IN ACCORDANCE WITH SMACNA DUCT SEAL CLASS C. THE USE OF DUCT TAPE IS STRICTLY PROHIBITED. ALL THERMOSTATS, SENSORS, DAMPER CONTROLS, ASSOCIATED ACCESSORIES, AND FINAL WIRING CONNECTIONS SHALL BE PROVIDED BY HVAC CONTRACTOR. ROUGH—IN AND WIRE
- INSTALLATION SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE HVAC EQUIPMENT WITH NEW FILTERS DURING CONSTRUCTION AND UPON SUBSTANTIAL COMPLETION.
- COORDINATE CEILING DIFFUSER/GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING
- PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO UNIT OPENING SIZES FOR ALL HVAC
- INSTALL ALL ROOF EQUIPMENT, PIPE, CONDUIT AND DUCTWORK SUPPORTS, CURBS AND PENETRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER.
- . PROVIDE FACTORY FABRICATED PIPE CURB ASSEMBLIES FOR MULTIPLE CONDUIT AND PIPING PENETRATIONS THROUGH THE ROOF. PIPE CURB ASSEMBLIES SHALL BE FACTORY FABRICATED, 8" TALL (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE PLATE, 3 LB. DENSITY INSULATION, WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS AS MANUFACTURED BY PATE, THYBAR OR APPROVED EQUIVALENT. PROVIDE PIPE SEAL ASSEMBLIES FOR INDIVIDUAL CONDUIT OR PIPE PENETRATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- SUPPORT PIPING ON ROOF WITH PREMANUFACTURERED PIPING SUPPORTS EQUIVALENT TO B-LINE C-SERIES. FIELD FABRICATED SUPPORTS CONSISTING OF LUMBER, ETC. ARE NOT
- PROVIDE SLEEVES AT PIPE PENETRATIONS OF EXTERIOR OR FOUNDATION WALLS. SEAL PENETRATIONS WEATHERTIGHT.
- SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE—RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRESTOPPING MATERIALS AND REQUIREMENTS. ALL EXPOSED PIPING, DUCTWORK AND EQUIPMENT SHALL BE PRIMED AND PAINTED. REFER O ARCHITECTURAL DRAWINGS FOR REQUIREMENTS AND COORDINATE WITH GENERAL
- O. THE MECHANICAL/PLUMBING CONTRACTOR SHALL SEAL ALL NECESSARY PENETRATIONS OF RATED WALL AND CEILING CONSTRUCTION WITH FIRE CAULK. PROVIDE FIRE PUTTY PAD AROUND LAUNDRY AND ICE—MAKER ROUGH—IN BOXES INSTALLED IN RATED WALL AND CEILING CONSTRUCTION. FIRE CAULK AND PUTTY PADS SHALL BE MANUFACTURED BY 3M
- OR HILTI, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. . PROVIDE SIOUX CHIEF WATER HAMMER ARRESTERS ON ALL PLUMBING FIXTURES SIZED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH201. EQUIVALENT BY JONESPEC, J.R. SMITH, OR WADE.



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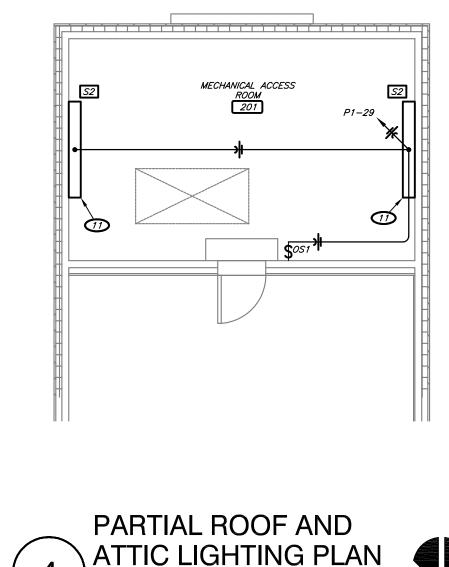
ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

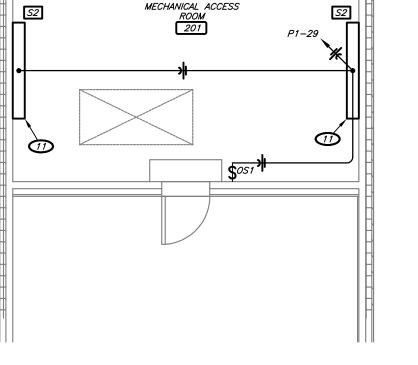
PROJECT NUMBER: 21334 7BSM

REVISION:

Engineering | Energy | Innovation 2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807 P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903 Special notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory law and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whosoever changes the design without prior written approval from CJD LLC, does so at their own risk and assumes full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

SCHEDULES AND **DETAILS DATE:** APRIL 26, 2022





KEYNOTES:

ELECTRICAL SYMBOLS:

₩P

P1-43 THRU LC1

71

SERVICE AREA

SIMPLEX RECEPTACLE; 2P, 3W, 20A, 125V

DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V

DUPLEX RECPTACLE; WEATHERPROOF

EXIT/EMERGENCY LIGHT

LED LIGHT FIXTURE

LIGHT SWITCH 3-WAY LIGHT SWITCH

JUNCTION BOX

_ _ _ _ _ CONDUIT BELOW GRADE

——(1)—— FEEDER PER SCHEDULE

DISCONNECT SWITCH

GROUND WIRE

NIGHT LIGHT FIXTURE

OCCUPANCY SENSOR LIGHT SWITCH

LIGHTING & POWER PANELBOARD

INDICATE NUMBER OF CIRCUITS

CEILING MOUNTED OCCUPANCY SENSOR

____ CONDUIT CONCEALED IN CEILING OR WALL

HOME RUN: TICK MARKS INDICATE NUMBER OF WIRES, ARROWS

DUPLEX RECEPTACLE; MOUNTED @ 42" ABOVE FINISHED FLOOR

DUPLEX RECEPTACLE; MOUNTED 6" ABOVE COUNTERTOP BACKSPLASH

DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER

DOUBLE DUPLEX RECEPTACLE WITH COMMON FACEPLATE

EXIT LIGHT; WALL MOUNTED / CEILING MOUNTED

TELECOMMUNICATIONS OUTLET: ROUGH—IN JUNCTION BOX OR PLASTER RING ONLY. MAY BE USED FOR VOICE, DATA, FAX, MODEM, OR ANY COMBINATION THEREOF. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.

CABLE TV OUTLET: ROUGH—IN JUNCTION BOX OR PLASTER RING ONLY. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.

INSTALL RECEPTACLE IN CRAWL SPACE FOR SUMP PUMP. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN. -O 14-30 SIMPLEX RECEPTACLE; NEMA CONFIGURATION AS INDICATED

RECEPTACLE TO BE MOUNTED ABOVE CANOPY. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH—IN.

3 PROVIDE JUNCTION BOX AND POWER FOR HORTON SLIDING DOOR.

4 RECEPTACLES FOR SECURITY AND AUDIO. 5 PROVIDE JUNCTION BOX AND POWER FOR COOLER CONTROLS/LIGHTS. FIELD VERIFY EXACT

6 PROVIDE JUNCTION BOX AND POWER FOR COOLER EVAPORATOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.

PROVIDE JUNCTION BOX FOR OUTDOOR HEATER CONTROLS 6" ABOVE SLIDING GLASS DOOR. COORDINATE ROUGH-IN AND WIRING REQUIREMENTS WITH OWNER. 8 PROVIDE JUNCTION BOX FOR POWER CONNECTION TO BUILDING LED TAPE LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND LINEAR FOOTAGE OF FIXTURE.

CONNECT POWER TO LED STRIPS PER MANUFACTURE'S INSTRUCTION. 9 PROVIDE WEATHER PROOF JUNCTION BOX AND TOGGLE SWITCH LOCATED ON SIGN IN CONCEALED LOCATION FOR EXTERIOR SIGNAGE PER NEC. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH THE SIGNAGE PROVIDER PRIOR TO INSTALLATION. CONTRACTOR SHALL PULL ALL WIRING TO THE JUNCTION BOXES AND MAKE FINAL CONNECTIONS. COORDINATE ALL REQUIREMENTS WITH THE SIGNAGE PROVIDER.

10 INSTALL FIXTURE 12" ABOVE TOP OF DOOR. FIELD VERIFY EXACT LOCATION WITH OWNER. 11) INSTALL FIXTURE 7' ABOVE FINISH FLOOR. FIELD VERIFY MOUNTING HEIGHT WITH OWNER.

2 RECEPTACLE FOR ESPRESSO MACHINE. PROVIDE CORD AND PLUG CONNECTION. POWER CONNECTION FOR AIR CURTAIN. COORDINATE ROUGH-IN, WIRING REQUIREMENTS, AND MOUNTING HEIGHT WITH OWNER.

14) CT CABINET AND METER. 15 COORDINATE INSTALLATION HEIGHT WITH ARCHITECT

16 POWER CONNECTION FOR ELECTRIC HEATER. COORDINATE INSTALLATION HEIGHT WITH OWNER.

7 RECEPTACLE FOR IPAD. COORDINATE INSTALLATION HEIGHT WITH OWNER. 18 REFER TO 1/SU1.1 FOR CONTINUATION.

(2) 2" COMMUNICATION CONDUITS WITH PULL-WIRE. COORDINATE TERMINATION WITH OWNER PRIOR TO INSTALLATION.

20 COORDINATE LOCATION AND RECEPTACLE TYPE WITH EQUIPMENT PROVIDER.

CONDUIT & CONDUCTOR SCHEDULE:

(2) #8 AND (1) #10 GROUND, IN 0.75" CONDUIT. (2) (2) #3 AND (1) #8 GROUND IN 1.25" CONDUIT.

<u>C1</u>

<u>C1</u>

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ENGINEER OF RECORD: NAME: RYAN JONES LICENSE NO.PE-2004017193

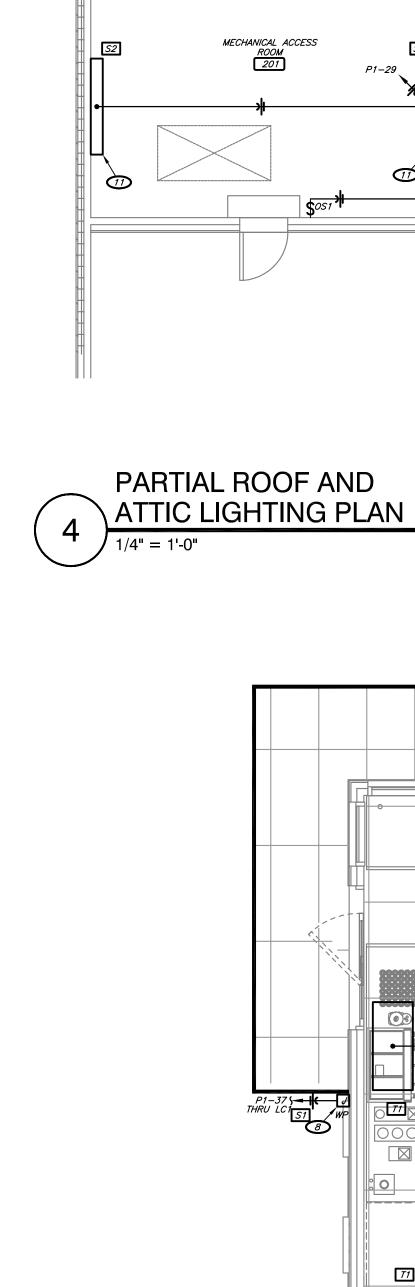
PROJECT NUMBER: 21334 7BSM

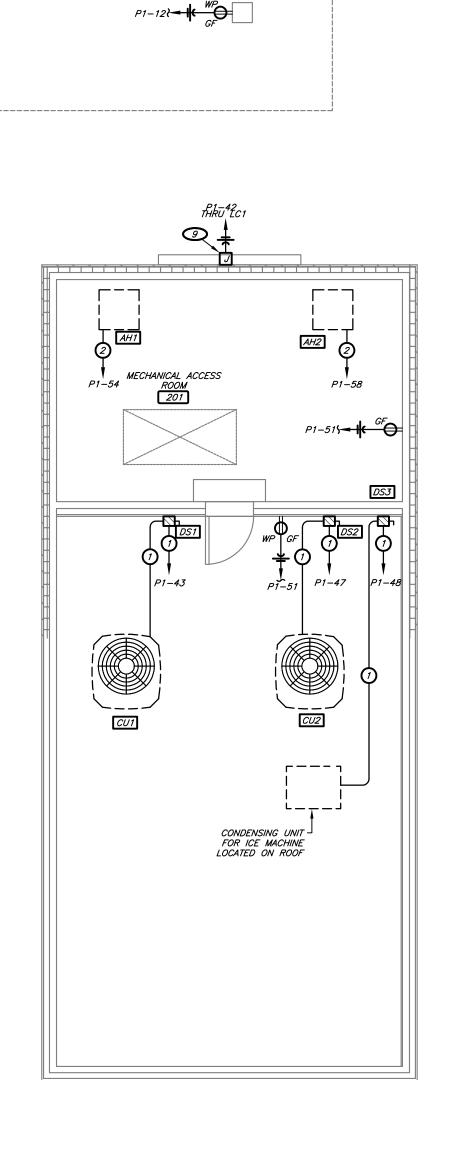
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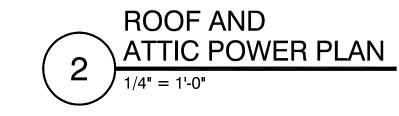
Engineering | Energy | Innovation $2225\ West$ Chesterfield Boulevard, Suite 200, Springfield, MO 65807P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com Missouri State Certificate of Authority #2005026903

ELECTRICAL PLAN

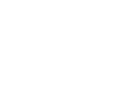
DATE: APRIL 26, 2022











GROUND LEVEL LIGHTING PLAN

GROUND LEVEL POWER PLAN

1/4" = 1'-0" NORTH

COOLER EVAPORATOR AND CONDENSING UNIT

COOLER 104

13 - J - P1-61

SHOWN OFFSET FOR CLARITY 2 WP GF

13

AC2

(2)

SPECIAL NOTES:

1. PRIOR TO ANY ELECTRICAL ROUGH—IN AT KITCHEN, ELECTRICAL CONTRACTOR SHALL REVIEW KITCHEN EQUIPMENT SUPPLIER'S ROUGH—IN DRAWINGS, TO CONFIRM ALL ELECTRICAL REQUIREMENTS FOR KITCHEN EQUIPMENT.

3. ALL ROUGH—IN HEIGHTS SHALL BE AS DIRECTED BY KITCHEN EQUIPMENT SUPPLIER/INSTALLER. HEIGHT MAY NOT BE SHOWN ON ELECTRICAL PLANS. REFER TO DRAWINGS FOR HEIGHTS AND DIMENSIONED LOCATIONS.

. ALL DEVICE COVERPLATES AT KITCHEN SHALL BE STAINLESS STEEL.

P1-12 5- WP

NORTH

1

		LIGH	TING FIXT	URE SCI	HEDL	JLE						
MARK	MANUFACTURER	MODEL#	FINISH	MOUNTING		LAMPS		FIXTURE	VOLTAGE	APPROVED	NOTES	
IVIAKK	WANUFACTURER	WIODEL #	FINISH	MOUNTING	TYPE	CODE	QTY.	WATTS	VOLTAGE	MANUFACTURERS		
T1	WILLIAMS	LP-24-L50/835-DIM-UNV	WHITE	RECESSED	LED	WITH FIXTURE	-	50	UNV	SUBMIT	-	
T1E	WILLIAMS	LP-24-L50/835-EM/10WRM-DIM-UNV	WHITE	RECESSED	LED	WITH FIXTURE	-	50	UNV	SUBMIT	-	
C1	HALO	SMD6R69SWH	WHITE	SURFACE	LED	WITH FIXTURE	-	10	UNV	SUBMIT	1,2,3,4,6	
C2	WAC LIGHTING	DS-WS05-F-B-CC-BK	BLACK	SURFACE	LED	WITH FIXTURE	-	35	UNV	SUBMIT	1,2,4,6	
51	LED NEONFLEX	LN-11X29-24-RGB	WHITE	SURFACE	LED	WITH FIXTURE	-	1.88/FT	UNV	SUBMIT	1,2,6	
S2	WILLIAMS	78-4-L53/830-DIM-UNV	WHITE	SURFACE	LED	WITH FIXTURE	-	35	UNV	SUBMIT	-	
PL1	LUMARK	PRV-C25-D-UNV-T3-SA-BZ-HSS	BRONZE	POLE	LED	WITH FIXTURE		96	UNV	SUBMIT	1,4,6,7,8,9	
W1E	WILLIAMS	WPAS-L34/850-BZ-PC-EM/6W-UNV	BRONZE	SURFACE	LED	WITH FIXTURE	-	45	UNV	SUBMIT	1,3,6	
X1	WILLIAMS	EXIT/EM/LED-R-WHT	WHITE	SURFACE	LED	WITH FIXTURE	-	10	120	SUBMIT	3	

FIXTURE SHALL BE LISTED FOR OUTDOOR USE AND SHALL BE LISTED FOR DAMP OR WET LOCATION AS REQUIRED.
COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT AND LOCATION.

PROVIDE FIXTURE WITH EMERGENCY BATTERY BACK-UP FOR MINIMUM 90-MINUTES OPERATION.
COORDINATE WITH ARCHITECT/OWNER FOR EXACT FINISH.

- ELECTRICAL OPERATOI

- HACR RATING

- HANDLE LOCK-OFF

- HANDLE LOCK-ON

- SWITCH RATING

- SHUNT TRIP

- GROUND-FAULT INTERRUPTING

4. COORDINATE WITH ARCHITECT/OWNER FOR EXACT FINISH.
5. REFER TO PLANS AND COORDINATE WITH OWNER/ARCHITECT FOR MOUNTING TYPE, FACE ORIENTATION, AND CHEVRON DIRECTION AS APPLICABLE.

6. FIXTURE LAMP AND BALLAST SHALL BE CAPABLE OF OPERATING DOWN TO 0 DEGREES F AND UP TO 110 DEGREES F AS REQUIRED.
7. PROVIDE 20' STRAIGHT STEEL POLE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
8. PROVIDE ALL ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. POLE AND ACCESSORIES SHALL BE SAME COLOR AS FICTURE HEAD.

ABBREVIATIONS:
OSFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
TBD - TO BE DETERMINED

GENERAL NOTES (APPLY TO ALL LIGHT FIXTURES):

1. PROVIDE INSULATION BARRIER, WHERE NON IC-RATED LIGHT FIXTURES ARE INSTALLED WHERE THEY MAY BE IN DIRECT CONTACT WITH INSULATION. INSULATION BARRIER SHALL BE EQUAL TO PRODUCTS BY 'E.Z. BARRIER'

ANELI	BOARD SCHEDU	LE												P'
LTAGE:	120/240	POLES:				84		MOUNT	NG:		SUR	FACE	ENCLOSURE:	NEMA 3F
ASE / WIRE:	1 /3	KAIC AMPS (I	RMS):			22K		LOCATION	ON:		EXT	ERIOR	MANUFACTURER:	SQUARE L
IPS:	600	MAIN BREAK	ER / M	LO:		MLO		FED FR	ОМ:	U	ITILITY	XFMR	MODEL:	NO
RC. O.	EQUIPMENT SERVED		C/B AMPS	C/B POLES	C/B ACC.	LOAD (VA)	PHASE L	OADS (VA)	LOAD (VA)	C/B ACC. C	/B POLES	C/B AMPS	EQUIPMENT SERVED	CIRC. NO
1	POINT OF SALE RECEPTACLES		20	1	-	400	1050		650	-	1	20	GRINDER	2
3	FRONT BAR RECEPTACLE		20	1	-	180		830	650	-	1	20	GRINDER	4
5	EXTERIOR RECEPTACLES		20	1	-	540	720		180	-	1	20	FRONT BAR RECEPTACLE	6
7	ESPRESSO MACHINE 4 GROUP		50	2	-	4000		5800	1800	-	1	20	HOT WATER RECEPTACLE	8
9	н				-	4000	5284		1284	-	1	20	ICE MAKER	10
1	HORTON SLIDING DOOR		20	1	-	500		1220	720	-	1	20	EXTERIOR RECEPTACLES	12
3	ESPRESSO MACHINE 3 GROUP		50	2	-	3050	4334		1284	-	1	20	BLENDER	14
5	п				-	3050		4334	1284	-	1	20	ICE MAKER	16
7	SECURITY RECEPTACLES		20	1	-	360	3410		3050	-	2	50	ESPRESSO MACHINE 3 GROUP	18
9	SECURITY RECEPTACLES		20	1	-	360		3410	3050	-			u .	20
1	SIDE BAR RECEPTACLE		20	1	-	180	360		180	-	1	20	SERVICE AREA RECEPTACLE	22
3	SIDE BAR RECEPTACLE		20	1	-	180		360	180	-	1	20	SERVICE AREA RECEPTACLE	24
5	SIDE BAR RECEPTACLE		20	1	-	180	1464		1284	-	1	20	BLENDER	26
7	ICE MAKER		20	1	-	1284		1554	270	-	1	20	EXTERIOR LIGHTS	28
9	INTERIOR LIGHTS		20	1	-	700	1984		1284	-	1	20	BLENDER	30
1	SIDE BAR RECEPTACLE		20	1	-	180		540	360	-	1	20	EXTERIOR RECEPTACLES	32
3	BLENDER		20	1	-	1284	1644		360	-	1	20	BATHROOM RECEPTACLE	34
~	CRAWL SPACE RECEPTACLE		20	1	-	180		970	790	HACR	2	20	WALK IN COOLER	36
7	EXTERIOR LED LIGHTS		20	1	-	500	1290		790				"	38
9	SPARE		20	1	-			1200	1200	-	1	20	BUILDING SIGNAGE	40
1	SPARE		20	1	-		1200		1200	-	1	20	BUILDING SIGNAGE	42
3	CONDENSING UNIT CU1		50	2	HACR	3078		3278	200	-	1	20	COOLER LIGHT	44
5	н					3078	3218		140	HACR	1	15	ICE MACHINE	46
7	CONDENSING UNIT CU2		50	2	HACR	3078		6918	3840	HACR	2	40	REMOTE CONDENSING UNIT	48
9	"					3078	6918		3840				"	50
1	MECHANICAL ACCESS RECEPTACLE		20	1	-	360		720	360	-	1	20	IPAD RECEPTACLES	52
-	ELECTRIC HEATER EH1		20	2	-	1500	11484		9984	HACR	2	100	AIR HANDLER AH1	54
5	н					1500		11484	9984				и	56
7	ELECTRIC HEATER EH2		20	2	-	1500	11484		9984	HACR	2	100	AIR HANDLER AH2	58
9	"		20	1	-	1500		11484	9984					60
1	AIR CURTAIN AC1		15	1	HACR	768	1128		360	-	1	20	IPAD RECEPTACLES	62
3	AIR CURTAIN AC2		15	1	HACR	768		1068	300	-	1	20	SITE LIGHTING	64
5	SPARE		20	1	-		0			-	1	20	SPARE	66
7	WATER HEATER WH1		40	2	-	4000		4000		-	1	20	SPARE	68
9	n .					4000	4000			-	1	20	SPARE	70
1	WATER HEATER WH1		40	2	-	4000		4000		-	1	20	SPARE	72
3	"					4000	4000			-	1	20	SPARE	74
5	WATER HEATER WH1		40	2	-	4000		4000		-	1	20	SPARE	76
7	"					4000	4000			-	1	20	SPARE	78
9	SPARE		20	1	-			0		-	1	20	SPARE	80
1	SPARE		20	1	-		0			-	1	20	SPARE	82
3	SPARE		20	1				0				20	SPARE	84

COMPRESSION LUGS

- NEUTRAL BONDING KIT

- SPLIT BUS

- EQUIPMENT GROUND BAR KI

- SERVICE ENTRANCE RATING

- PREPARED CIRCUIT BREAKER SPACE

	2017721775	OCCUPA					SEI	NSOR			
MARK	CONTROL TYPE	EQUIPMENT SERVED	VOLTAGE	MANUF	MODEL#	VOLTAGE	TYPE	TIME DELAY	MOUNTING	INTERLOCK	ACCES
OS1	WALL MOUNTED OCCUPANCY	RESTROOMS	120	WATTSTOPPER	DW-100	120	IR/US	AUTO	WALL BOX	-	1
								IR/US -DUAL TE	LOTHVOLOGI		
	<u>ES (APPLIES TO ALL SENSORS):</u> NSOR TYPE MAY BE SHOWN IN MULTIPLI	E LOCATIONS ON ELECTRICAL P	DI ANS					APPROVED MA	ANUFACTURER	<u>S:</u>	

CONCEALED HINGE

- FLUSH LOCK(S)

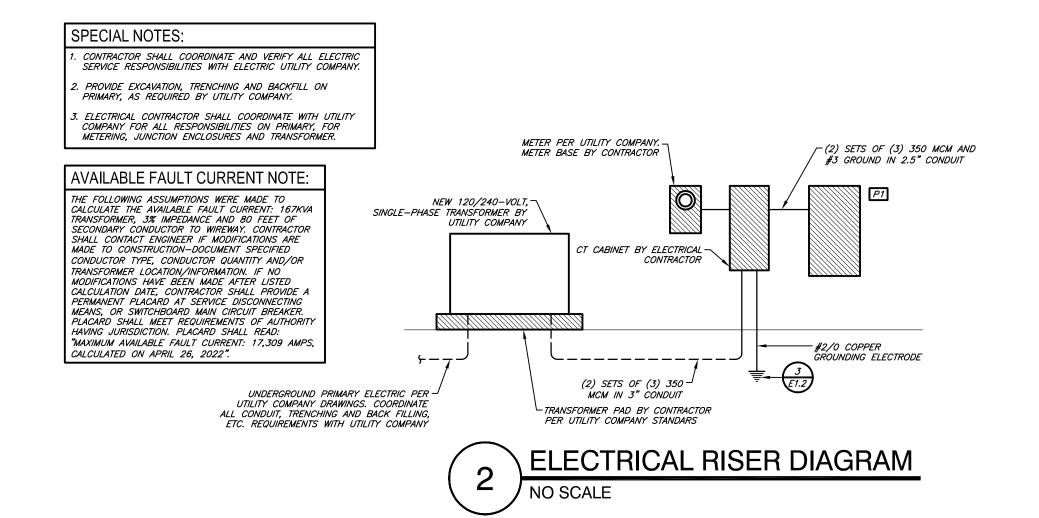
COLUMN WIDTH PANEL

- EXTENDED GUTTER BOTTOM

- HINDGED DOOR WITHIN HINGED DOOR

- EXTENDED GUTTER LEFT HAND SIDE

- EXTENDED GUTTER RIGHT HAND SIDE



- SUB-FEED CIRCUIT BREAKER

- SILVER PLATED COPPER BUS BARS

- TIN PLATED ALUMINUM BUS BARS

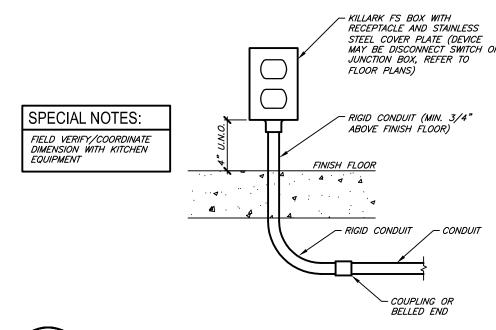
- TRANSIENT VOLTAGE SURGE SUPPRESSION

- 200% RATED NEUTRAL BUS BAR

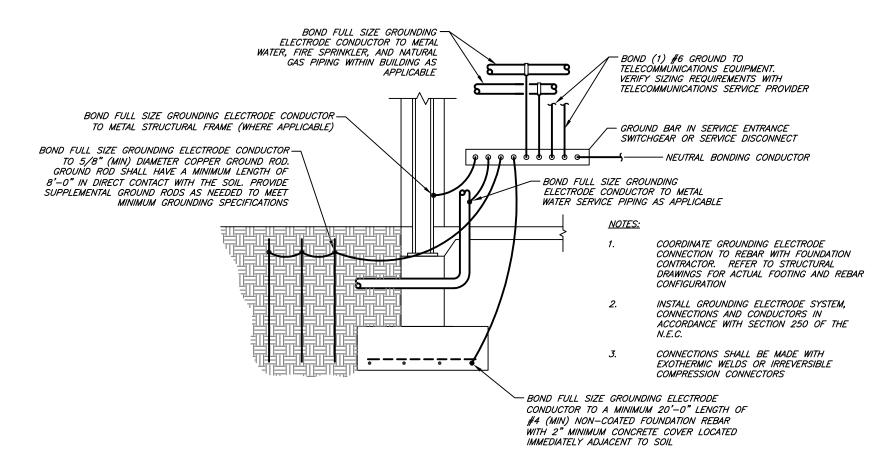
	DIS	CONNE	ECT	SW	/ITC	H SCH	EDULE			
MARK	EQUIPMENT SERVED	SWITCH				OVERCURRE	NT PROTECTION	NEMA	NOTES &	
WAKK	EQUIFMENT SERVED	VOLTAGE	DUTY	AMP	POLE	AMP	TYPE	ENCLOSURE	ACCESSORIES	
DS1	CONDENSING UNIT CU1	240	GD	60	2	-	-	3R	1	
DS2	CONDENSING UNIT CU2	240	GD	60	2	-	-	3R	1	
DS3	REMOTE CONDENSING UNIT	240	GD	30	3	-	-	3R	1	
DS4	WATER HEATER WH1	240	GD	100	2	-	-	1	1	
ACCESSO 1. GROUI	<u>ORIES:</u> ND LUG KIT				ABBREVIA C/B - CIRC	<u>ITIONS:</u> :UIT BREAKER				
2. SOLID	NEUTRAL		GD - GENERAL DUTY							
3. SERVIC	CE ENTRANCE RATED				HD - HEAV	YY DUTY				

	C	ATAC	CTO	R SC	HED	ULE		
MARK	LOAD		NOTES					
	EQUIPMENT SERVED	VOLTAGE	TYPE	AMP	POLE	ENCLOSURE	CONTROLLED BY	NOTES
LC1	EXTERIOR LIGHTING	120/240	NOEH	20A	8	NEMA 1	TIME SWITCH TS1	1

MARK	MANUFACTURER	MODEL#	EQUIPMENT SERVED	VOLTAGE	AMP	POLE	ENCLOSURE	NOTES
TS1	TORK	DTS200B	EXTERIOR LIGHTING	120	30	1	NEMA 1	1

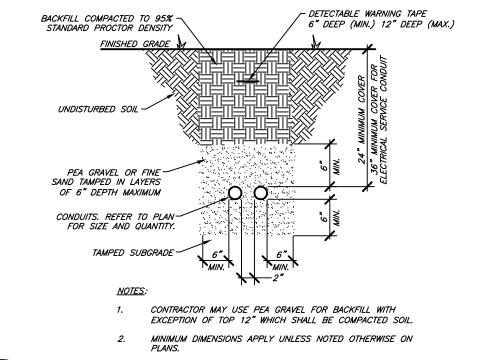






GROUNDING ELECTRODE DETAIL

NO SCALE



1 ELECTRICAL CONDUIT TRENCH DETAIL
NO SCALE

GENERAL ELECTRICAL NOTES:

<u>GENERAL</u>

- 1. GENERAL ELECTRICAL NOTES APPLY TO ALL ELECTRICAL SHEETS.

 2. CJD ENGINEERING LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTOR'S OWN INTERPRETATION AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CJD ENGINEERING LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E.
- THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTORS SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE BUILDING CODE COMPLIANT SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
- . ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODES, THE 2017 NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.

 THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID.
- 6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
 7. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY ALL
- EQUIPMENT AND CONDUIT/CONDUCTOR LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, DUCTWORK, LIGHT FIXTURES, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
- COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

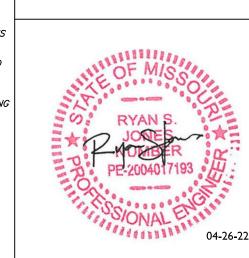
 10. MAINTAIN ALL CLEARANCES REQUIRED BY ELECTRICAL EQUIPMENT. COORDINATE WITH PLUMBING, HVAC, AND SPRINKLER CONTRACTORS TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS.
- COORDINATE INFORMATION OUTLET, RECEPTACLE, AND OTHER DEVICE LOCATIONS WITH OWNER AND WITH MILLWORK AND WITH OTHER TRADES PRIOR TO ROUGH—IN.
- 13. INFORMATION OUTLET (DATA AND TELEPHONE) DEVICES, WALL PLATES, AND ASSOCIATED WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT WITH THE OWNER.
- P. THE CONTRACTOR SHALL PROVIDE ELECTRONIC SHOP DRAWINGS/SUBMITTALS OF ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- 15. IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CJD ENGINEERING LLC NOT LESS THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTION OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED SUBSTITUTIONS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WIRING, CONDUIT, ENCLOSURES, CONTROL AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF DESIGN AT NO COST TO OWNER OR A/E.
- 17. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW FIXTURES, CONDUIT, WIRING, ETC. ARE INCLUDED IN THE BID PRICE.
- 1. LIGHT SWITCHES SHALL BE EQUIVALENT TO HUBBELL 1220 SERIES, 20-AMP, 120/277-VOLT, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
- DUPLEX RECEPTACLES SHALL BE EQUIVALENT TO HUBBELL 5300 SERIES, 20A, 125V, NEMA CONFIGURATION 5—20R, IN COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
- ALL RECEPTACLES THROUGHOUT SHALL BE TAMPER-RESISTANT TYPE, TO COMPLY WITH
- ELECTRICAL DEVICE WALL PLATES SHALL BE HIGH IMPACT NYLON PLASTIC IN COLOR AS SELECTED BY THE ARCHITECT/INTERIOR DESIGNER.
- FEEDER AND BRANCH CIRCUIT WIRING SHALL BE COPPER, 600V WITH THHN/THWN INSULATION. BRANCH CIRCUIT WIRING SHALL BE #12 AWG MINIMUM. HOMERUNS FOR BRANCH CIRCUITS OVER 75 FEET LONG SHALL BE #10 AWG; OVER 100 FEET LONG, #8 AWG UNLESS INDICATED OTHERWISE.
- EQUIVALENT WIRING DEVICES BY BRYANT, COOPER, HUBBELL, LEVITON, OR AS APPROVED BY OWNER.
- EQUIVALENT PANELBOARDS, LIGHTING CONTACTORS AND DISCONNECT SWITCHES BY CUTLER HAMMER, GENERAL ELECTRIC, SIEMENS, SQUARE D, OR AS APPROVED BY OWNER.
- PROVIDE ALL ACCESSORIES, COMPONENTS, ETC. REQUIRED FOR COMPLETE INSTALLATION OF SPECIFIED EQUIPMENT.

 PROVIDE UNISTRUTS AND ACCESSORIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPMENT,
- 2. PROVIDE UNISTRUTS AND ACCESSURIES AS REQUIRED FOR SUPPORT OF PIPING, EQUIPME. ETC.
- COORDINATE LIGHTING AND CEILING DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT AND SHALL BE CONCEALED UNLESS OTHERWISE NOTED. PVC CONDUIT WILL BE ALLOWED BELOW SLAB. ALL TRANSITIONS FROM PVC TO STEEL CONDUIT SHALL BE MADE BELOW GRADE. MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS ABOVE GRADE SHALL BE 1/2". MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER BRANCH CIRCUITS BELOW GRADE SHALL BE 3/4". CONTRACTOR SHALL HAVE THE OPTION TO USE METALLIC CLAD (M/C) CABLE FOR CONCEALED BRANCH CIRCUIT WIRING.
- MINIMUM CONDUIT SIZE FOR INFORMATION OUTLETS SHALL BE 3/4". CONDUIT STUBS SHALL BE TERMINATED WITH INSULATING BUSHINGS.
- ALL LIGHTING AND POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
- . ALL RECEPTACLES, TELECOMMUNICATIONS OUTLETS, AND TELEVISION OUTLETS SHALL BE INSTALLED AT 18" AFF TO CENTER UNLESS NOTED OTHERWISE. ALL SWITCHES SHALL BE INSTALLED AT 48" AFF TO CENTER UNLESS NOTED OTHERWISE.
- R. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS. DIRECTORY INFORMATION SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.
- INSTALL ALL ROOF EQUIPMENT, PIPE, AND CONDUIT SUPPORTS, CURBS AND PENETRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM MANUFACTURER.
- 10. SUPPORT CONDUIT ON ROOF WITH PREMANUFACTURERED PIPING SUPPORT EQUIVALENT TO B-LINE C-SERIES. FIELD FABRICATED SUPPORTS CONSISTING OF LUMBER, ETC. ARE NOT ACCEPTABLE.
- 11. PROVIDE FACTORY FABRICATED PIPE CURB ASSEMBLIES FOR MULTIPLE CONDUIT AND PIPING PENETRATIONS THROUGH THE ROOF. PIPE CURB ASSEMBLIES SHALL BE FACTORY FABRICATED, 8" TALL (MINIMUM) GALVANIZED STEEL ROOF CURBS WITH INTEGRAL BASE PLATE, 3 LB. DENSITY INSULATION, WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, AND GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS AS MANUFACTURED BY PATE, THYBAR OR APPROVED EQUIVALENT. PROVIDE PIPE SEAL ASSEMBLIES FOR INDIVIDUAL CONDUIT OR PIPE PENETRATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- 2. PROVIDE SLEEVES AT CONDUIT PENETRATIONS OF EXTERIOR OR FOUNDATION WALLS. SEA PENETRATIONS WEATHERTIGHT.
- SEAL ALL PENETRATIONS THROUGH FIRE—RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE—RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRESTOPPING MATERIALS AND REQUIREMENTS.
 CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO SPECIAL EQUIPMENT. PROVIDE ADAPTERS, FITTINGS, ETC. FOR ALL EQUIPMENT AS REQUIRED. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT SUPPLIERS. REFER TO SPECIAL EQUIPMENT DRAWINGS FOR
- ADDITIONAL INFORMATION.

 15. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH—IN FOR THERMOSTATS AND SENSORS.

 PROVIDE SINGLE—GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO ASSOCIATED EQUIPMENT. THERMOSTATS, SENSORS, AND WIRING SHALL BE PROVIDED BY
- MECHANICAL CONTRACTOR. REFER TO HVAC PLANS FOR THERMOSTAT AND CONTROL LOCATIONS.

 5. BRANCH CIRCUIT WIRING SERVING EQUIPMENT, LIGHTING, AND RECEPTACLES IN PATIENT CARE AREAS SHALL COMPLY WITH NEC SECTION 517.13. METAL RACEWAYS, ARMORED CABLING AND ASSOCIATED FITTINGS SHALL BE LISTED AS A GROUND RETURN PATH AND SHALL CONTAIN A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AS SPECIFIED.



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PROJECT NUMBER: 21334 7BSM

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SCHEDULES AND
DETAILS
DATE: APRIL 26, 2022