OUTDOOR PAVILION **MISSOURI VETERANS HOME** Cape Girardeau, Missouri

20 Allen Avenue, Suite 200 - St Louis, Missouri 63119 - Phone: (314) 962-7900 / info@f-w.com

OWNER:

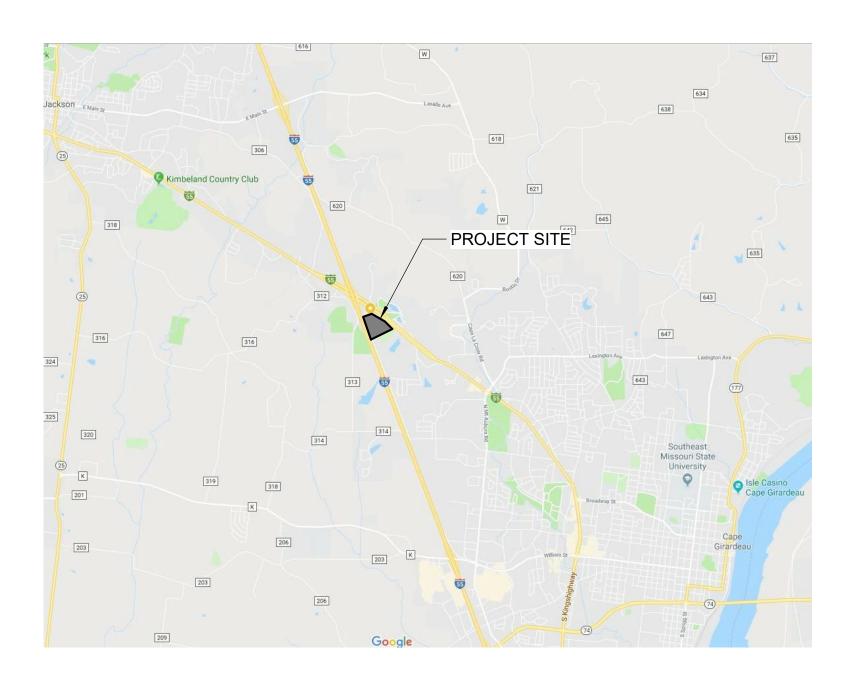
STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

MISSOURI VETERAN'S COMMISSION

PROJECT **OFFICE OF ADMINISTRATION MANAGEMENT**: **DIVISION OF FACILITIES MANAGEMENT**, **DESIGN AND CONSTRUCTION**



MISSOURI STATE CERTIFICATE OF AUTHORITY #000744



DESIGNER:

FARNSWORTH GROUP

PROJECT NUMBER: #U2415.01 **FAI NUMBER:** 29-043

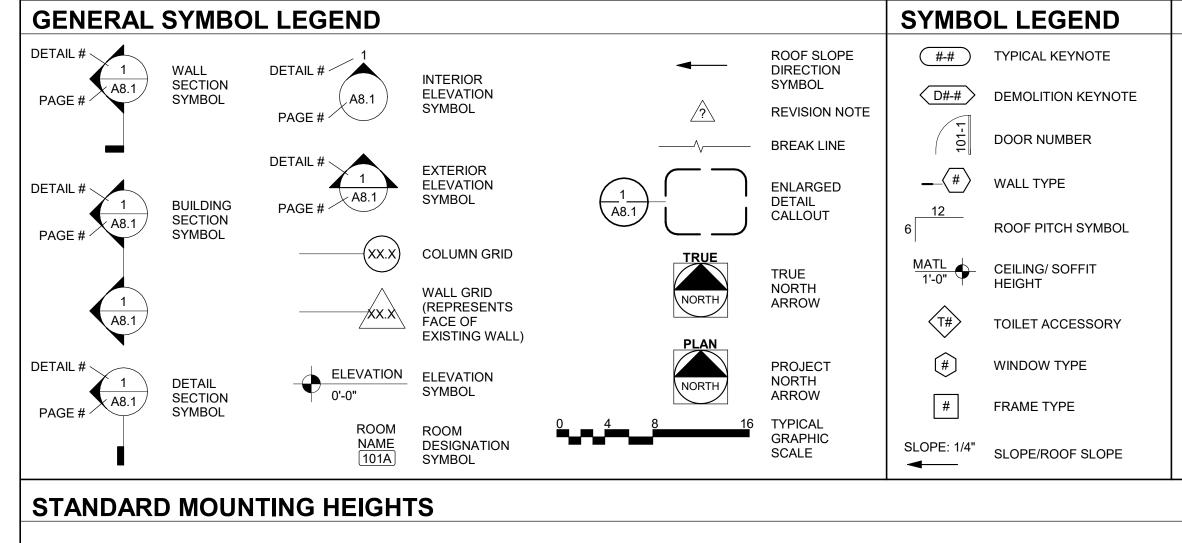
SITE NUMBER: 6803 **ASSET NUMBER:** 8136803002

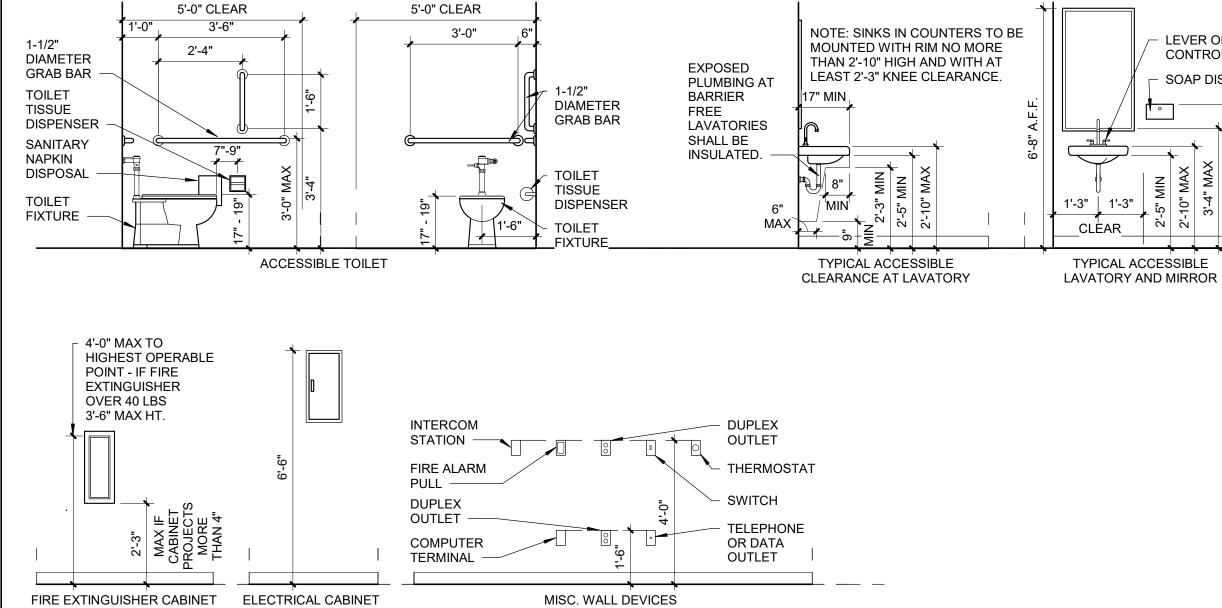
SHEET NUMBER:



ABBREVIATIONS

AFF ACP/APC ACT	ABOVE FINISHED FLOOR ACOUSTIC CEILING PANEL/ ACOUSTIC PANEL CEILING ACOUSTIC(AL) TILE	FD FE FFE FV	FLOOR DRAIN FIRE EXTINGUISHER FINISH FLOOR ELEVATION FIELD VERIFY	PEB PJF PT PERIM	PRE-ENGINEERED BUILDING PREFORMED JOINT FILLER PRESSURE TREATED PERIMETER
ADJ	ADJUSTABLE	FEC	FIRE EXTINGUISHER CABINET	PL	PLATE
ADJ ADT'L	ADJITIONAL	FDN	FOUNDATION	PLAM	PLATE PLASTIC LAMINATE
AGG	AGGREGATE	FIN	FINISH	PLBG	PLUMBING
ALT	ALTERNATE	FLSHG	FLASHING	PLYWD	PLYWOOD
AL	ALUMINUM	FLR	FLOOR	PNT	PAINT
		FRMG	FRAMING	PR	PAIR
ASPH	ASPHALT	FT	FOOT/FEET	PTD	PAINTED
AUTO	AUTOMATIC	FTG	FOOTING	PWR	POWER
71010		110			1 OWER
B/O	BOTTOM OF	GC	GENERAL CONTRACTOR	RB	RUBBER BASE
BD	BOARD	GA	GAUGE	RD	ROOF DRAIN
BLDG	BUILDING	GALV	GALVANIZED	RO	ROUGH OPENING
BLKG	BLOCKING	GEN	GENERAL	RAD	RADIUS
BOT	BOTTOM	GYP	GYPSUM	REC	RECESSED
BRG	BEARING			REINF	REINFORCED
		HM	HOLLOW METAL	REQ'D	REQUIRED
Æ	CENTERLINE	HDWR	HARDWARE	REV	REVISED (REVISION)
C/C	CENTER TO CENTER	HOL	HOLLOW	RM	ROOM
CJ	CONTROL JOINT	HOR	HORIZONTAL		
CLL	CONTRACT LIMIT LINE	HT	HEIGHT		
CEM	CEMENT(ITIOUS)	HVAC	HEATING/VENTILATION/AIR	S	SOUTH
CMU	CONCRETE MASONRY UNIT		CONDITIONING	SB	SPLASH BLOCK
CLG	CEILING			SF	SQUARE FEET
CLR	CLEAR	IDPH	ILLINOIS DEPARTMENT OF PUBLIC HEALTH	SS	STAINLESS STEEL
COL	COLUMN	ID	INSIDE DIAMETER	SIM	SIMILAR
CONC	CONCRETE	IN	INCH	SPEC	SPECIFICATIONS
CONST	CONSTRUCTION	INCL	INCLUDING	SQ	SQUARE
CONT	CONTINUOUS	INSUL	INSULATION	STD	STANDARD
CPT	CARPET	INT	INTERIOR	STL	STEEL
CT	CERAMIC TILE			STOR	STORAGE
CTR	CENTER(ED)	JAN	JANITOR	STRUCT	STRUCTURAL
DE		JT	JOINT	SUSP	SUSPENDED
DF DS	DRINKING FOUNTAIN DOWNSPOUT	LAV	LAVATORY	T&G	TONGUE AND GROOVE
DBL	DOUBLE	LAV LB(S)	POUND(S)	T/O	TOP OF
DEG	DEGREE	LB(S) L/S	LANDSCAPE	TELE	TELEPHONE
DEMO	DEMOLITION	L/S	LIGHT	TRTD	TREATED
DET/DTL	DETAIL		LIGITI	TS	TUBE STEEL
DIA	DIAMETER	МО	MASONRY OPENING	TYP	TYPICAL
DIM	DIMENSION	MAS	MASONRY		THICKE
DN	DOWN	MAT'L	MATERIAL	UNFIN	UNFINISHED
DWG(S)	DRAWING(S)	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
2		MECH	MECHANICAL		
		MFR	MANUFACTURER	VCT	VINYL COMPOSITION TILE
Е	EAST	MIN	MINIMUM	VIF	VERIFY IN FIELD
EC	ELECTRICAL CONTRACTOR	MISC	MISCELLANEOUS	VERT	VERTICAL
EHO	ELECTRICAL HOLD OPEN	MTD	MOUNTED		
EJ	EXPANSION JOINT	MTL	METAL	W	WEST
EW	EACH WAY	Ν	NORTH	W/	WITH
EA	EACH	NIC	NOT IN CONTRACT	W/O	WITHOUT
EIFS	EXTERIOR INSULATION FINISH SYSTEM	NTS	NOT TO SCALE	WC	WATER CLOSET
EL	ELEVATION	NOM	NOMINAL	WWF	WELDED WIRE FABRIC
ELEC	ELECTRIC(AL)			WD	WOOD
ELEV	ELEVATOR	OC	ON CENTER	WH	WATER HEATER
EMER	EMERGENCY	OD	OUTSIDE DIAMETER	WT	WEIGHT
EQ	EQUAL	Ο ΤΟ Ο	OUT TO OUT		
EQUIP	EQUIPMENT	OPNG	OPENING		
EXIST	EXISTING	OPP	OPPOSITE		
EXT	EXTERIOR	OVHD	OVERHEAD		





DRAWING LIST

GENERAL G-001 COVER G-002 GENERAL INFORMATION CIVIL

C-001 CIVIL GENERAL NOTESC-002 DEMOLITION PLAN AND LAYOUT PLANC-003 GRADING AND UTILITY PLANC-004 DETAILS

LANDSCAPE L-101 PLANTING PLAN

STRUCTURAL S-001 GENERAL STRUCTURAL NOTES S-002 SPECIAL INSPECTIONS FOUNDATION PLAN OUTDOOR PAVILION S-101 S-301 FOUNDATION DETAILS ARCHITECTURAL A-101 PAVILION PLANS, ELEVATIONS, & SCHEDULES A-102 PAVILION DETAILS PLUMBING P-001 GENERAL INFORMATION P-101 PAVILION PLUMBING PLAN P-501 DIAGRAMS P-601 SCHEDULES MECHANICAL M-100 GENERAL INFORMATION M-101 FIRST FLOOR MECHANICAL PLAN M-102 DIAGRAMS

ELECTRICAL E-001 EL

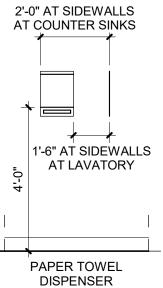
E-001 ELECTRICAL SYMBOLS
E-002 ELECTRICAL GENERAL NOTES AND ABBREVIATIONS
E-101 ELECTRICAL SITE PLAN
E-102 LIGHTING AND POWER PLAN - PAVILION
E-501 ELECTRICAL DETAILS

DEFERRED SUBMITTALS

THE FOLLOWING SYSTEMS ARE A DESIGN/BUILD RESPONSIBILITY OF THE CONTRACTOR OR PRODUCT MANUFACTURER AND WILL REQUIRE THE DEFERRED SUBMITTAL OF DESIGN WORK TO THE CITY OF ANYWHERE FOR PLAN REVIEW AND PERMITTING:

1. PRE-ENGINEERED HEAVY TIMBER FRAMING. A. PAVILLION COLUMNS & FRAMING

2'-0" AT S AT COUN - LEVER OPERATING CONTROLLED - SOAP DISPENSER - SOAP DISPENSER - THORE OF A COLL - SOAP DISPENSER - SO



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





Farnsworth GROUP

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Farnsworth Group, Inc. Missouri State Certificate of Authority #000744 www.f-w.com Engineers | Architects | Surveyors | Scientists

100% BID SET

10/22/2024

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr. Cape Girardeau, MO 63701

PROJECT #.: SITE #.: ASSET #.: FAI #.: # DATE: DES

#.: U2415.01 6803 8136803002 29-043 DESCRIPTION:

DRAWN BY: AVR CHECKED BY: NRB DESIGNED BY: JJH SHEET TITLE:

GENERAL INFORMATION

SHEET NUMBER:



SHEET 2 OF 25 ISSUE DATE: 10/22/2024

SYMBOLS LEGEND

\odot	EXISTING DECIDUOUS TREE
	EXISTING EVERGREEN TREE
ӨН	EXISTING EVERGREEN BUSH EXISTING BOLLARD
۲	EXISTING BORE HOLE
¢	EXISTING ELECTRIC LIGHT
()=⊂> +452.34	EXISTING AREA LIGHT EXISTING SPOT ELEVATION
p	EXISTING FLAGPOLE
\square_{MB}	EXISTING MAIL BOX
WD	EXISTING LANDSCAPE ROCK
-0-	EXISTING SIGN
ĤΡ	EXISTING PARKING METER
	EXISTING TRAFFIC SIGNAL
	EXISTING PAY PHONE
D M F0	EXISTING COMMUNICATIONS MANHOLE EXISTING TV PEDESTAL
Ĩ	EXISTING FIBER OPTIC CABLE MARKER
$\langle W \rangle$	EXISTING WATER METER
8	EXISTING WATER VALVE
W d	EXISTING WATER MANHOLE EXISTING FIRE HYDRANT
ď 	EXISTING FIRE HIDRANT
Ø	EXISTING POWER POLE
Ŕ	EXISTING POWER POLE W/ TRANSFORMER
Æ	EXISTING TRANSFORMER
E	EXISTING ELECTRIC MANHOLE
	EXISTING GAS VALVE
\bigtriangleup GD	EXISTING GAS DRIP EXISTING CLEAN OUT
0	EXISTING CURB INLET
	EXISTING GRATE INLET
\bigcirc	EXISTING SANITARY MANHOLE
\triangleright	EXISTING FLARED END SECTION
$\langle \stackrel{CI}{_{1-4}} \rangle$	EXISTING STORM SEWER STRUCTURE DESIGNATOR
Č.	EXISTING LIGHT
	NEW SANITARY SEWER MANHOLE
	NEW STORM SEWER MANHOLE
	NEW STORM SEWER STRUCTURE
	NEW CLEANOUT
42.76	NEW FINISH SPOT ELEVATION NEW FINISH SPOT ELEVATION
432.2	SET PER ARCHITECT
(7)	PARKING COUNT DESIGNATOR
5	NEW KEYED NOTE DESIGNATOR
	NEW PIPE FLOW DIRECTION INDICATOR
	NEW SWALE LINE
	NEW RIP RAP NEW FLARED END SECTION
	NEW STORM SEWER STRUCTURE DESIGNATOR
Ā	NEW SANITARY MANHOLE DESIGNATOR
\bigotimes	NEW WATER METER
₩	NEW FIRE HYDRANT
G	NEW GAS METER
	NEW TELEPHONE DISTRIBUTION BOX
© E	NEW ELECTRICAL MANHOLE NEW TRANSFORMER
⊑ <u> </u>	NEW PARKING LIGHT
个 父	NEW FIRE DEPARTMENT CONNECTION
м	NEW WATER VALVE

43

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1.

EX 5' CONTOUR EX 1' CONTOUR _____504_____ EX STORM SEWER _____ ST _____ EX COMBINED SEWER _____ CS _____ CS _____ EX SANITARY SEWER ______ SA ______ SA _____ – SA ——— EX GAS LINE ______ G ______ G ______ EX UG TELEPHONE LINE EX OVERHEAD ELECTRIC ------- OE ------- OE ------— OF ——— EXISTING UNDERGROUND ELECTRIC _____E____E____ EX WATER LINE WITH SIZE ______W ______W ______W ______W EXISTING TREE MASS FINISH 5' CONTOUR — 505 — . FINISH 1' CONTOUR - 504 SAWCUT LINE NEW STORM SEWER ______ST ______ST ______ST ______ST _____ NEW SANITARY SEWER NEW GAS MAIN _____G____ _____ NEW TELEPHONE SERVICE _____T____ ____T____ NEW OVERHEAD ELECTRIC _____OE _____ _____ OE _____ ------ OE ------NEW UNDERGROUND ELECTRICAL SERVICE _____ F _____ F _____ F _____ NEW WATER MAIN ______W____ ______W_____

LINE LEGEND

EROSION CONTROL BARRIER

DRAINAGE AREA LINE

ABBREVIATIONS

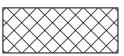
EX	EXISTING	ELEV	ELEVATION
TYP	TYPICAL	MB	MAILBOX
TBR	TO BE REMOVED	FP	FLAG POLE
TR	TO REMAIN	FO	FIBER OPTIC
TBREL	TO BE RELOCATED	DS	DOWNSPOUT
BR&REL	TO BE RELOCATED	CO	CLEANOUT
ME	MATCH EXISTING	MH	MANHOLE
BM	BENCHMARK	SAN	SANITARY
COR	CORNER	ST	STORM
PB	PLAT BOOK	FL	FLOW LINE
DB	DEED BOOK	PVC	POLYVINYL
PG	PAGE		CHLORIDE PIPE
(S)	SURVEYED	CMP	CORRUGATED
(R)	RECORD		METAL PIPE
Ň	NORTH	RCP	REINFORCED
S	SOUTH		CONCRETE PIPE
Ŵ	WEST		
E	EAST		
	SQUARE FEET	UTIL	UTILITY
BLDG	BUILDING	STM	STEAM
CONC	CONCRETE	UG	UNDERGROUND
		TBA	TO BE ABANDONED

. ▷

NEW CONCRETE PAVEMENT AND BASE



EXISTING ASPHALT PAVEMENT TO BE REMOVED



EXISTING CONCRETE WALK TO BE REMOVED

GENERAL NOTES

- 1. ALL EXISTING IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE
- 2. THE CONTRACTOR SHALL KEEP ALL ACCESS ROADS FREE FROM MUD AND DEBRIS AT ALL TIMES.
- 3. THE CONTRACTOR SHALL SAWCUT ALL EDGES OF EXISTING PAVEMENT THAT IS TO BE REMOVED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO CREATE A SMOOTH WORKING EDGE AND TO PLACE BACKFILL AND PAVEMENT SUCH THAT SETTLEMENT DOES NOT OCCUR.
- 4. ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE STORM AND SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN MISSOURI.
- 5. ALL DISTURBED AREAS SHALL BE RESTORED WITH SEED. REFER TO TURF SPECIFICATIONS FOR SEEDING.
- 6. THE EXISTING UTILITIES SHOWN HEREON ARE FROM INFORMATION PROVIDED BY THE OWNER AND UTILITY COMPANIES AND MUST BE CONSIDERED AS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF PUBLIC AND PRIVATE UTILITIES.
- 7. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING BUT NOT LIMITED TO SILTATION FABRIC FENCES CONTROL SHALL COMMENCE WITH GRADING AND BE
- MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR THE STATE OF MISSOURI. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER AND/OR STATE MAY AT THEIR OPTION DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT OR IN NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN
- AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE OWNER AND/OR STATE.
- 8. ALL EXISTING UNDERGROUND IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE. 9. BACKFILL ALL UTILITY TRENCHES UNDER PAVEMENT WITH GRANULAR MATERIAL.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING TOPS AND FLOWLINES OF ALL EXISTING SEWERS PRIOR TO COMMENCING WORK.
- 11. ABANDONMENT OF SEWERS SHALL CONFORM TO THE STATE OF MISSOURI DNR SPECIFICATIONS.
- 12. EXISTING UTILITY POLES SHALL NOT BE DISTURBED. COORDINATE WITH AMEREN UE IF BRACING IS REQUIRED DURING EXCAVATION.
- 13. THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION FENCE AROUND ALL OPEN EXCAVATION AT ALL TIMES.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION STAKING AND LAYOUT. 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION WORK. ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, FENCES, AND/OR INCIDENTALS NOT
- DESIGNATED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE

		CONTORL PO			
Point Number	Easting	Northing	Point Elevation	Full De	scription
200	1082708.60	551784.77	576.70	CP ~ 22	Rebar
201	1082211.50	551834.35	577.92	CP ~ 22	Rebar
202	1082179.31	551461.52	577.74	CP ~ 22	Rebar
203	1082463.47	551307.12	578.74	CP ~ 22	Rebar
204	1082794.16	551478.36	578.61	CP ~ 22	Rebar
210	1082207.44	551606.27	580.80	CP ~ 34	60D Nail
211	1082214.64	551673.93	580.36	CP ~ 34	60D Nail
212	1082451.70	551806.43	580.63	CP ~ 34	60D Nail
213	1082315.98	551656.98	581.00	CP ~ 34	60D Nail
214	1082204.79	551529.09	580.03	CP ~ 34	60D Nail
215	1082285.98	551432.28	579.73	CP ~ 34	60D Nail
216	1082317.91	551498.47	581.25	CP ~ 34	60D Nail
217	1082464.04	551407.89	580.92	CP ~ 34	60D Nail
218	1082590.56	551430.64	580.83	CP ~ 34	60D Nail
219	1082648.88	551475.56	580.87	CP ~ 34	60D Nail
220	1082702.34	551429.49	580.07	CP ~ 34	60D Nail
221	1082544.53	551470.14	581.48	CP ~ 34	60D Nail
222	1082712.59	551556.35	581.21	CP ~ 34	60D Nail
223	1082758.01	551599.27	580.28	CP ~ 34	60D Nail
224	1082721.41	551721.62	577.56	CP ~ 34	60D Nail
225	1082621.55	551605.74	580.78	CP ~ 34	60D Nail
226	1082498.97	551699.19	580.83	CP ~ 34	60D Nail
227	1082477.93	551671.28	581.34	CP ~ 34	60D Nail
228	1082421.29	551665.11	581.63	CP ~ 9	Ink Mark
229	1082397.35	551690.16	581.03	CP ~ 34	60D Nail
230	1082450.98	551444.64	581.37	CP ~ 34	60D Nail
300	1082708.58	551784.77	576.64	CP ~ 22	Rebar
302	1082179.32	551461.55	577.74	CP ~ 22	Rebar
303	1082463.48	551307.14	578.77	CP ~ 22	Rebar
304	1082794.13	551478.37	578.58	CP ~ 22	Rebar

Utility Contacts

ELECTRIC AMEREN MISSOURI CAPE GIRARDEAU, MO 63703 800-552-7583	SANITARY & STORM SEWERS CAPE GIRARDEAU 2007 SOUTHERN EXPRESSWAY CAPE GIRARDEAU, MO 63703 573-339-6351	<u>TELEPHONE</u> AT&T-MISSOURI 800-499-7928
GAS AMEREN MISSOURI 24 MINNESOTA AVE. CAPE GIRARDEAU, MO 63703 800-552-7583	WATER CAPE GIRARDEAU 2007 SOUTHERN EXPRESSWAY CAPE GIRARDEAU, MO 63703 573–339–6351	CALL BEFORE YOU DIG – DRILL – BLAST 1–800–344–7483 (TOLL FREE)

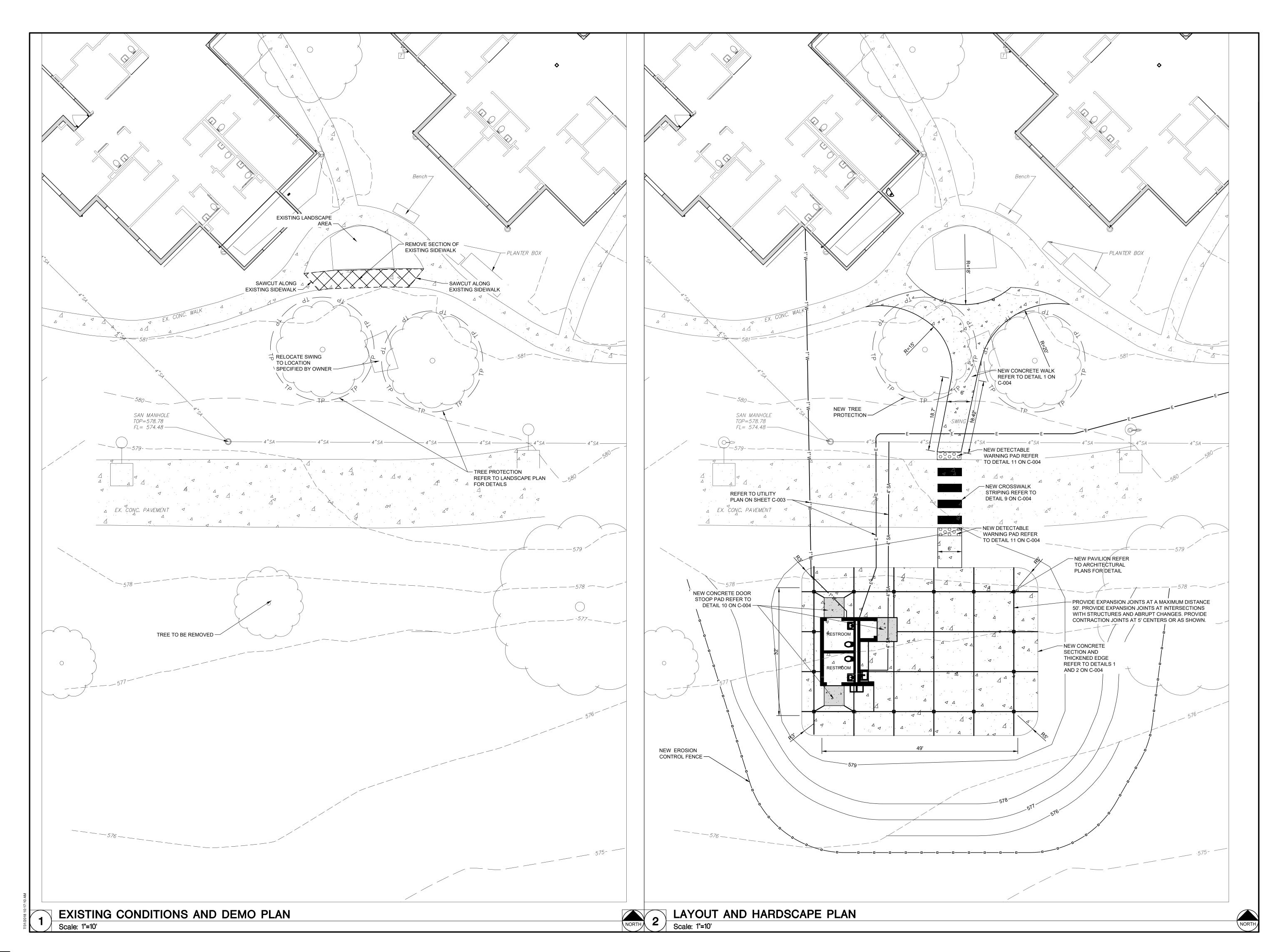
Benchmark

BENCHMARK USED: SITE BENCHMARK: IRON ROD WITH A PLASTIC CAP, ROUGHLY 37 FEET EAST, AND 46 FEET SOUTH OF THE INTERSECTION OF VETERANS MEMORIAL DRIVE AND VETERANS DRIVE. LOCATED IN THE SOUTHEAST REGION OF A PARKING LOT ISLAND. ELEVATION= 577.92 ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). DERIVED BY REAL-TIME KINETIC (RTK) GPS OBSERVATIONS USING MISSOURI GEOGRAPHIC REFERENCE STATIONS: (GRS COORDINATES SHOWN IN METERS: 1 METER = 3.2808333 FEET) CORS_ID MOJK: NORTHING: 175,551.770, EASTING: 325,239.670.

MISSOURI ONE CALL SYSTEM, INC.

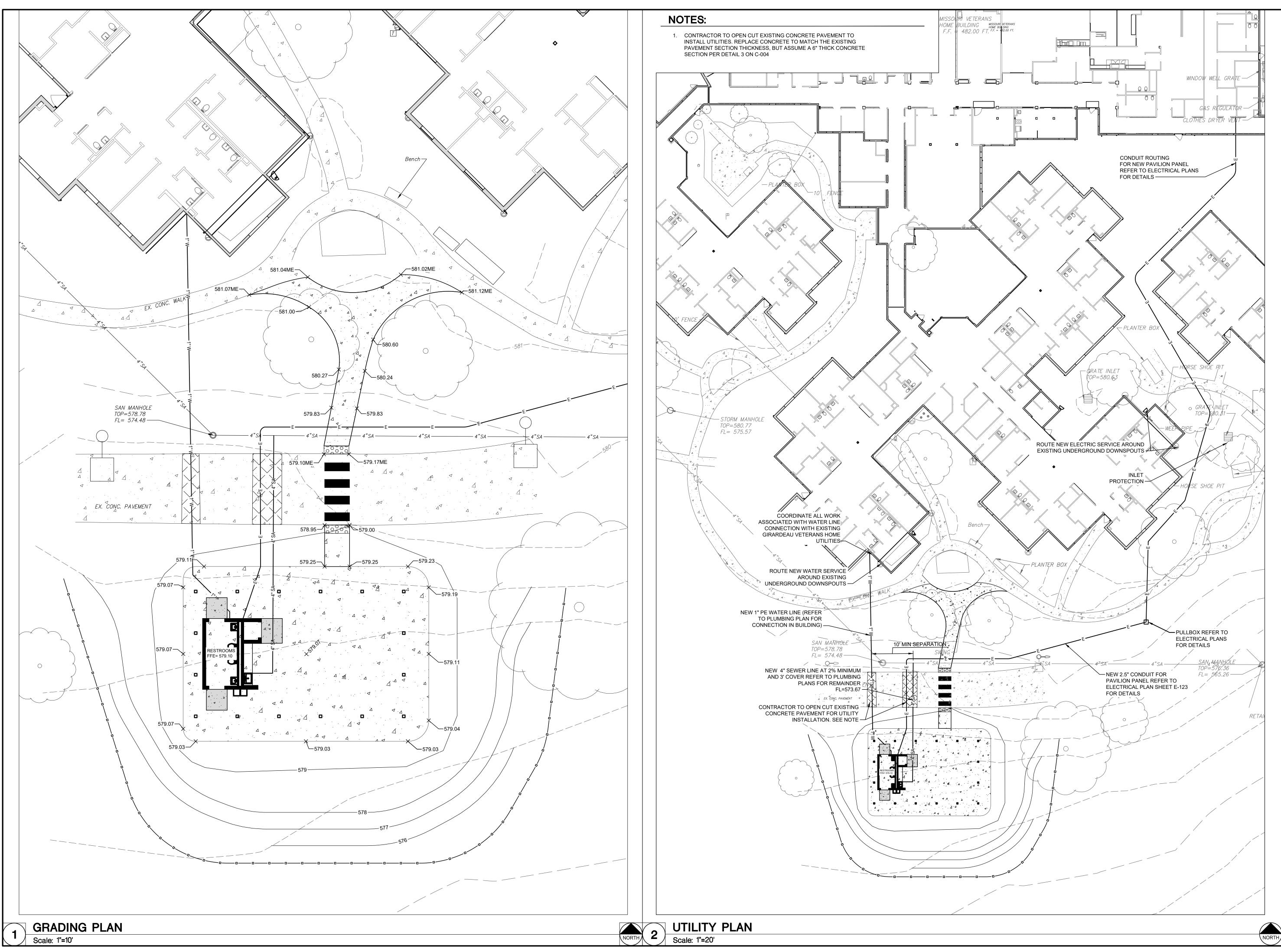


SHEET 3 OF 25 ISSUE DATE: 10/22/2024

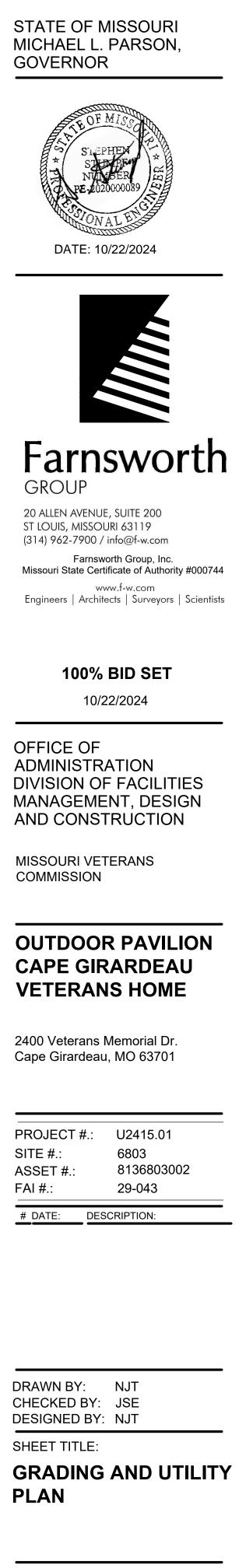


STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
DATE: 10/22/2024
Farnsworth Group O ALLEN AVENUE, SUITE 200 ST LOUIS, MISSOURI 63119 (314) 962-7900 / info@f-w.com Farnsworth Group, Inc. Missouri State Certificate of Authority #000744
100% BID SET 10/22/2024
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION MISSOURI VETERANS COMMISSION
OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME
2400 Veterans Memorial Dr. Cape Girardeau, MO 63701
PROJECT #.: U2415.01 SITE #.: 6803 ASSET #.: 8136803002 FAI #.: 29-043 # DATE: DESCRIPTION:
DRAWN BY: NJT CHECKED BY: JSE DESIGNED BY: NJT SHEET TITLE: DEMOLITION PLAN AND LAYOUT PLAN
SHEET NUMBER:

SHEET 4 OF 25 ISSUE DATE: 10/22/2024



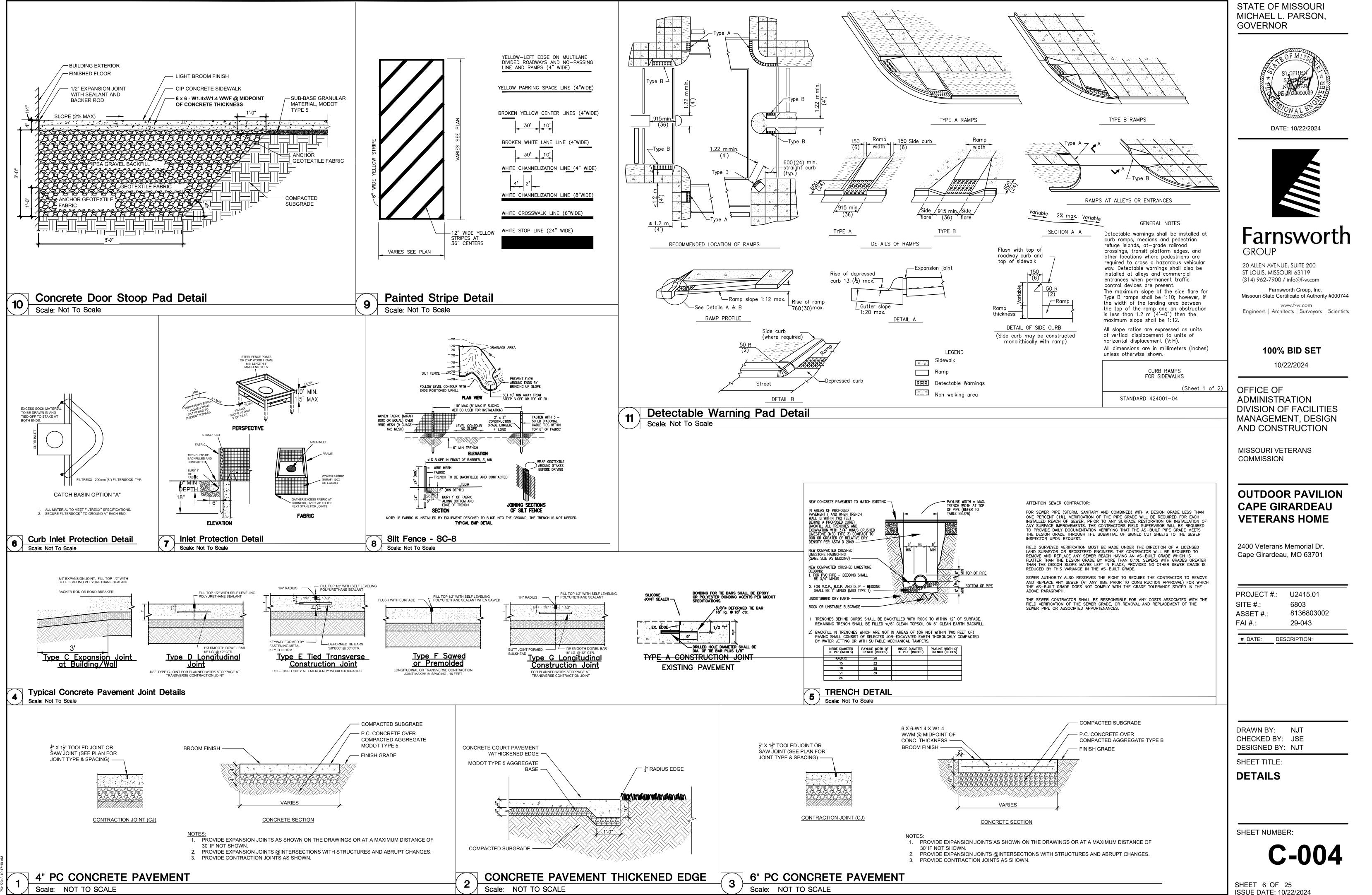
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SHEET NUMBER:



SHEET 5 OF 25 ISSUE DATE: 10/22/2024



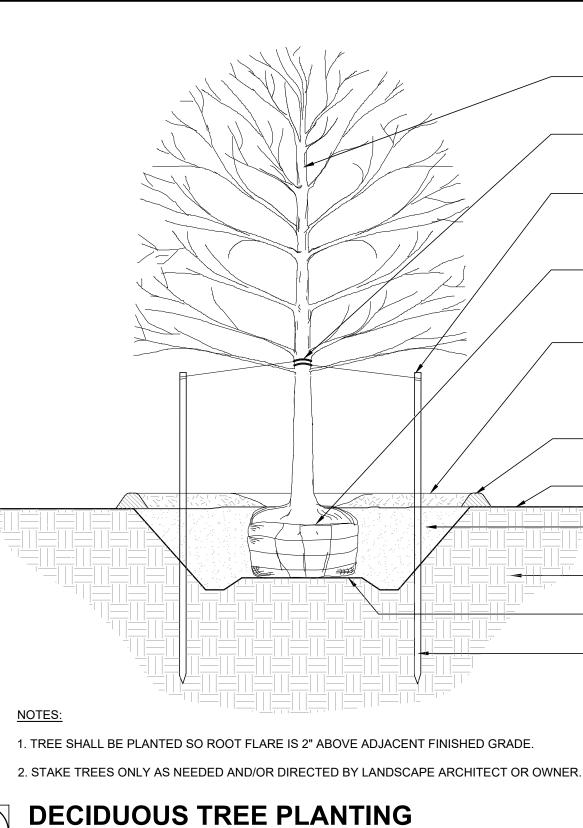
Scale: NOT TO SCALE

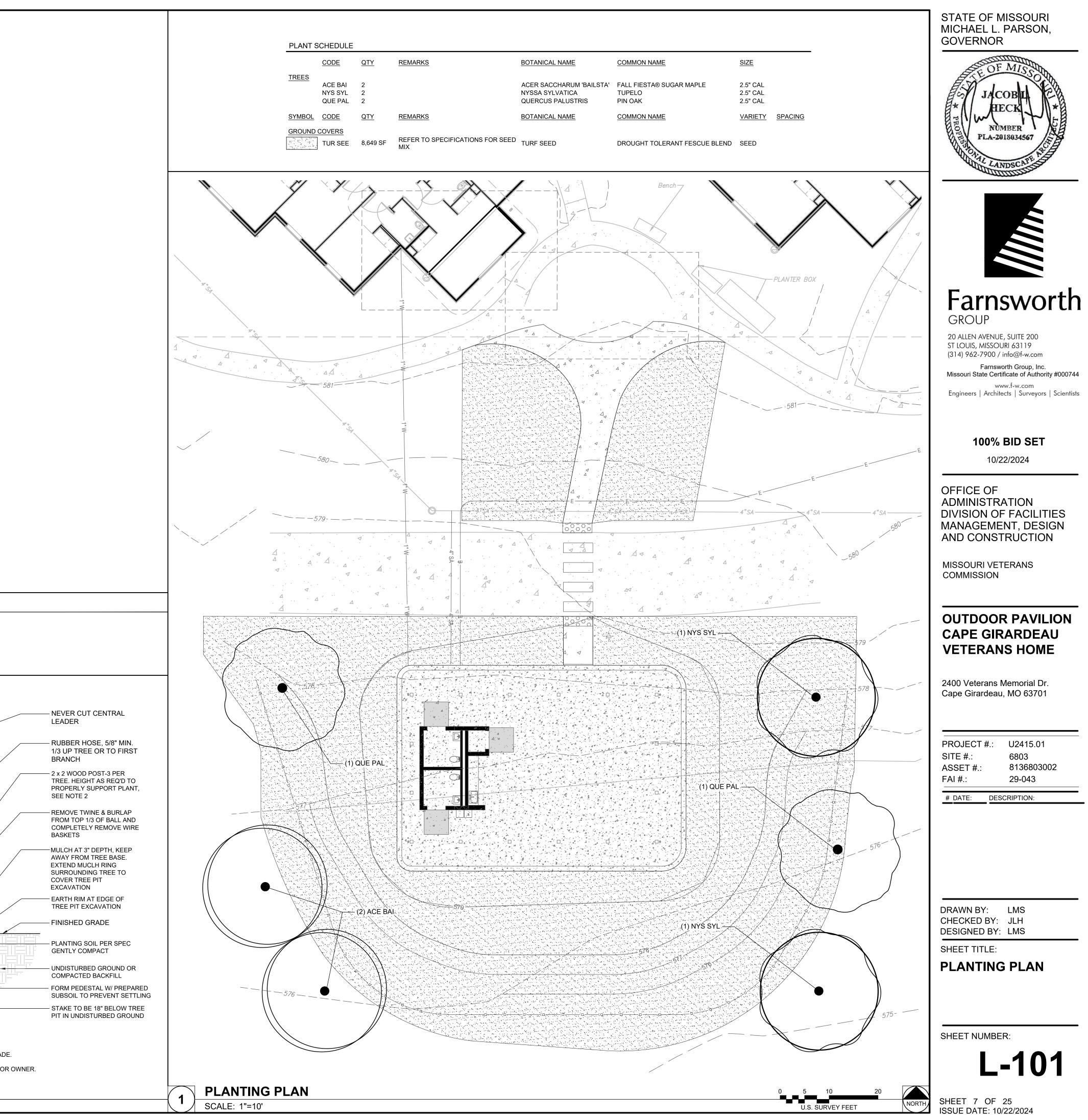
	neral Landscape Notes	-
	<u>ERAL</u> BASE SURVEY INFORMATION SUPPLIED BY OTHERS. ALL QUANTITIES AND	
2.	DESIGN ARE BASED UPON THE PROVIDED SURVEY. PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL NOTIFY	
	MISSOURI 811, OWNER AND GENERAL CONTRACTOR (IF ANY) FOR THE PROPER MARKING/LOCATION OF ALL EXISTING UTILITIES; PUBLIC AND PRIVATE.	
3.	ANY DAMAGE TO EXISTING PROPERTIES SHALL BE REPAIRED AND OR REPLACED AT (SUB)CONTRACTOR'S EXPENSE. CONTRACTOR IS ENCOURAGED TO TAKE	
	PERIODIC RECORD PHOTOGRAPHS (I.E. PRE-CONSTRUCTION, DURING AND POST-CONSTRUCTION) OF SITE CONDITIONS & DESIGN ELEMENTS; PAVEMENTS,	
1	HARDSCAPE, NEW & EXISTING PLANTS AND OTHER SITE ELEMENTS. WHEN APPLICABLE, CONSTRUCTION BARRIERS SHALL BE ERECTED TO PROTECT	
	THE PROPOSED WORK AND THE PUBLIC AND TO PROVIDE SECURITY. ALL WORK AND OPERATIONS SHALL COMPLY WITH CURRENT SAFETY PRACTICES.	
-	CODES OR ORDINANCES AS DICTATED BY FEDERAL (O.S.H.A.), STATE, AND LOCAL	
	(CITY OR COUNTY) SAFETY CODES AND ORDINANCES, AS WELL AS THOSE OF THE OWNER AND/OR GENERAL CONTRACTOR. IT IS THE (SUB) CONTRACTOR'S	
	RESPONSIBILITY TO LEARN AND COMPLY WITH CODES, ORDINANCES AND JOB SITE RULES.	
•	ALL TRADES SHALL COORDINATE AND COLLABORATE WITH EACH OTHERS WORK SO THAT THE FLOW OF WORK IS MAINTAINED AND ONE CRAFTSMAN'S WORK IS	
	NOT UNFAIRLY DELAYED. TIME IS OF THE ESSENCE. CONTRACTORS MUST START WORK UPON NOTICE TO PROCEED AND REMAIN ON-SITE FOR THE	
	COMPLETION OF THEIR SCOPE OF WORK AS AND WHEN THE SITE IS AVAILABLE TO THEM.	
	CONTRACTORS SHALL VISIT THE SITE PRIOR TO START OF WORK TO	
	COMPLETELY FAMILIARIZE THEMSELVES WITH EXISTING AS WELL AS PROPOSED CONDITIONS.	
	CONTRACTOR TO FOLLOW NORMAL CLIENT, CITY OR VILLAGE WORKDAY HOURS (TYPICALLY BETWEEN 7 AM AND 6 PM). WEEKEND WORK TO BE IN COMPLIANCE	
	WITH LOCAL CODES (WHERE APPLICABLE) AND COORDINATED WITH THE CLIENT FOR SITE ACCESS. NOTIFY THE GENERAL CONTRACTOR (OR CLIENT) OF ALL	
	NON-NORMAL BUSINESS HOURS OF WORK. ALL WORK SHALL COMPLY WITH CURRENT O.S.H.A. REQUIREMENTS AND THE	
	AMERICAN WITH DISABILITIES ACT FOR PHYSICALLY HANDICAPPED PEOPLE. THE CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL	
).	REQUIRED PERMITS UNLESS OTHERWISE NOTED IN THE DRAWINGS OR	
•	SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SANITARY FACILITIES FOR THEIR	
-	CREWS IF NONE ARE PROVIDED. CONTRACTOR AND ALL SUB-CONTRACTORS ARE EXPECTED TO MAINTAIN THE	
	CLIENT'S ACCESS TO ALL DRIVEWAYS, WALKS AND DOORWAYS. CONTRACTOR AND ALL SUB-CONTRACTORS WILL POLICE THE SITE AND THEIR	
	RESPECTIVE WORK EFFORTS AT THE END OF EACH WORK DAY IN ORDER TO MAINTAIN A CLEAN, NEAT AND ORDERLY WORK SITE. SITE CLEAN-UP IS REQUIRED	
	ON A DAILY BASIS AS WELL AS AT PROJECT CONCLUSION, THE CONTRACTOR SHALL PROTECT THE PROPERTY OF THE OWNER AND SAFETY AND WORK OF	
	OTHER CONTRACTORS BY LEAVING THE PROJECT SITE AS FREE OF DEBRIS, CONSTRUCTION MATERIALS AND TOOLS AND OTHER ITEMS AS POSSIBLE FOR A	
	NEAT AND ORDERLY APPEARANCE AT ALL TIMES. PLANT DEBRIS (LEAVES,	
	TWIGS), DIRT AND DEBRIS SHALL BE SWEPT FROM HARDSCAPES, DIRT CLODS, ROCKS, TWIGS/BRANCHES ETC. REMOVED FROM LAWN AREAS. THE	
	CONTRACTOR SHALL ALSO BE DIRECTLY RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE ACTIVITIES AND FOR THE DAILY REMOVAL OF ALL TRASH AND	
	DEBRIS FROM HIS WORK AREA TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT. THE OWNER MAY ELECT TO RETAIN PROGRESS AND/OR FINAL	
	PAYMENT(S) UNTIL SITE CLEAN-UP CONDITIONS ARE MET. FIELD VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS	
	AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS REPRESENTATIVE.	
	THE CONTRACTOR SHALL PROVIDE, AT THEIR OWN EXPENSE, TEMPORARY	
	PROTECTION FOR LANDSCAPE CONSTRUCTION AREAS UNTIL ISSUANCE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO	
	SECURE, PROTECT AND OTHERWISE MINIMIZE OPPORTUNITIES FOR ACCIDENTS, THEFT AND VANDALISM. CONTRACTOR SHALL PROVIDE BARRICADES,	
	TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL ISSUE WRITTEN	
	WARNINGS TO OWNER WHEN APPLICABLE. AFTER SUCH WARNINGS ARE ISSUED, THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY	
	THE OWNER OR THE OWNER'S EMPLOYEES, GUESTS OR FACILITY USERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL	
).	EXISTING ABOVE AND BELOW GROUND UTILITIES WITHIN THE LIMITS OF	
	CONSTRUCTION. ANY DAMAGE TO UTILITIES AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE WITHIN A REASONABLY SHOPT REPIOD OF TIME, AND WITH AS LITTLE INCONVENIENCE TO THE OWNER	
_	SHORT PERIOD OF TIME, AND WITH AS LITTLE INCONVENIENCE TO THE OWNER AS POSSIBLE.	GENERAL NOTES
` .	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, SHRUBS, LAWNS, PAVED AREA AND	
	OTHER EXISTING LANDSCAPED AREAS THAT ARE TO REMAIN. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED,	1. IF THERE ARE DISCREPANCIES PLANS AND THE PLANT SCHED
	FENCED, OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. BOXING OR OTHER PROTECTION WILL BE REMOVED AT THE END OF CONSTRUCTION. DO	ALL QUANTITIES ARE FOR THE CONTRACTOR IS RESPONSIBLE
	NOT LOCATE HEAVY EQUIPMENT OR STOCKPILES WITHIN THE DRIP-LINE OF EXISTING PLANTS OR ON LAWNS. ANY DAMAGE TO PLANTINGS OR LAWN AS A	2. REFER TO SPECS FOR ADDITIC
	RESULT OF CONSTRUCTION SHALL REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE WITHIN A REASONABLY SHORT PERIOD OF TIME, AND	
	WITH AS LITTLE INCONVENIENCE TO THE OWNER AS POSSIBLE. NOTIFY THE LANDSCAPE ARCHITECT AT ANY TIME WITH CONCERNS OR	
	SUGGESTIONS CONCERNING ANY OF THESE GENERAL NOTES.	
. .		
1.	<u>JENCE</u> PLACEMENT OF ALL SILT FENCE FILTERS AND PROTECTION DEVICES.	
	STRIPPING AND STOCKPILING AND/OR IMPORTING OF TOPSOIL AND ROUGH GRADING.	\ \
-	AMENDMENT AND FINE GRADING OF PLANTING SOILS. FINAL GRADING AND CONSTRUCTION OR ESTABLISHMENT OF PERMANENT	
	PAVEMENT AND VEGETATION IN ACCORDANCE WITH THE DESIGN DRAWINGS.	5-11
_	TING FOR ADDITIONAL INFORMATION REGARDING PLANTING REFER TO SPECIFICATION	
•	SECTION 32 9300 "PLANTS".	2 11
RF		
•	FOR ADDITIONAL INFORMATION REGARDING SEED/SOD REQUIREMENTS FOR ALL TURF AREAS REFER TO SPECIFICATION SECTION 32 9200 "TURF".	
		NOTES:
		1. TREE SHALL BE PLANTED S

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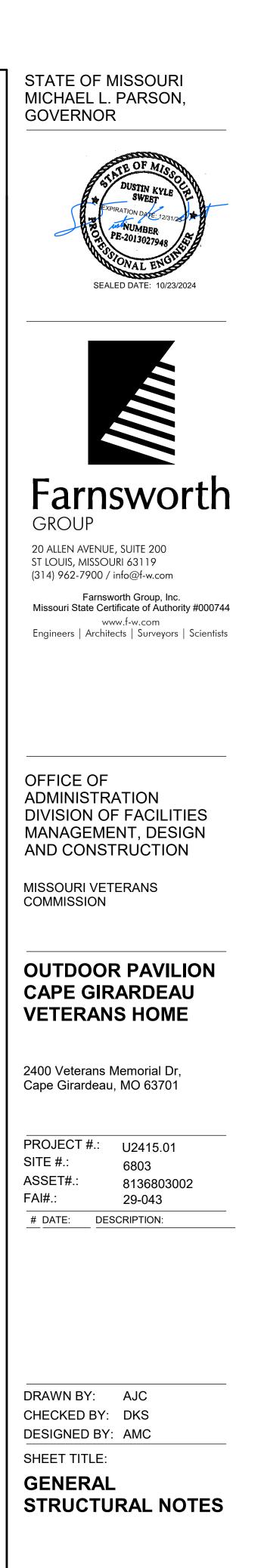
- IES BETWEEN PLANT QUANTITIES ON THE EDULE USE THE QUANTITIES FROM THE PLAN. HE CONVENIENCE OF THE CONTRACTOR. THE BLE TO BUILD WHAT IS SHOWN ON THE PLANS
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GENERAL CONSTRUCTION:	DESIGN CRITERIA:	STRUCTURAL CONCRETE:
 ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE. 	1. THE STRUCTURAL ENGINEERING DESIGN IS BASED ON AND IN ACCORDANCE WITH THE FOLLOWING CODE:	1. REINFORCED CONCRETE DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) BY THE AMERICAN CONCRETE INSTITUTE.
 THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DRAWINGS. IN THE EVENT OF A CONFLICT, NOTIFY THE ENGINEER FOR CLARIFICATION. 	INTERNATIONAL BUILDING CODE - 2021	2. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS".
3. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY	2. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING TYPICAL UNIFORM LOADS:	3. MINIMUM CONCRETE COMPRESSIVE STRENGTH (F'C) AT 28 DAYS:
DISCREPANCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK; SEE SPECIFICATIONS. 4. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR DETERMINING THE MEANS, METHODS,	DEAD LOADS ROOF TOP CHORD = 12 PSF ROOF BOTTOM CHORD = 11 PSF MEZZANINE = 15 PSF	FOOTINGS
 THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR DETERMINING THE MEANS, METHODS, SEQUENCES, AND SAFETY PROCEDURES USED IN PERFORMING THE WORK. SHOULD THE ENGINEER VISIT THE SITE, IT IS IN THE CAPACITY AS ENGINEER AND NOT IN THE CAPACITY OF A CONTRACTOR. REQUESTS FOR INFORMATION SHALL BE SUBMITTED TO THE ENGINEER UNLESS OTHERWISE NOTED. 	LIVE LOADS ROOF = 20 PSF MEZZANINE = 80 PSF	 PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I/II, UNLESS OTHERWISE NOTED. CONCRETE REINFORCEMENT:
 ALEGOLOTOT ON AN ON STALL BE SOBMITTED TO THE ENGINEER ONLESS OTHERWISE NOTED. THE CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATIONS, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. 	SNOW LOADS Pg = 15 PSF Pf = 22 PSF Ce = 0.9	DEFORMED BARS - NEW BILLET STEEL COMPLYING WITH ASTM A615 AND HAVING A MINIMUM YIELD STRENGTH OF 60000 PSI.
7. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE BASED ON MATERIAL PROVIDED BY THE	I = 1.1 Ct = 1.2	WELDED WIRE FABRIC - SMOOTH WIRE FABRIC COMPLYING WITH ASTM A185
OWNER AND NO CLAIM IS MADE AS TO ITS ABSOLUTE COMPLETENESS AND/OR ACCURACY PRIOR TO THE START OF CONSTRUCTION OPERATIONS.	WIND DESIGN DATA V (ULT) = 120 MPH EXPOSURE CATEGORY = C	6. CONCRETE PROTECTION FOR REINFORCEMENT:
8. WHERE NEW CONSTRUCTION ABUTS OR INTEGRATES WITH EXISTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT THE EXISTING CONDITIONS AND DIMENSIONS ARE CLOSE TO THOSE THAT HAVE BEEN ASSUMED. IF THERE ARE ANY VARIANCES THAT WILL PREVENT THE WORK FROM BEING COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, THEY SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY UPON DISCOVERY. THE ENGINEER SHALL ADVISE THE CONTRACTOR AS TO THE NECESSARY	GCpi = (+/-)0.18 COMPONENTS AND CLADDING EFFECTIVE ULTIMATE ZONE WIND AREA (SF) WIND PRESSURE (PSF)	UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FROM THE FACE OF CONCRETE TO THE REINFORCING STEEL SHALL BE: CONCRETE POURED AGAINST GROUND (NOTE A)
 MODIFICATIONS. 9. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SCOPE OF THE WORK AND SOIL AND WATER CONDITIONS BEFORE PROCEEDING WITH THE WORK. SOIL BORING LOCATIONS AND SOIL BORING LOGS ARE INCLUDED IN THE SPECIFICATIONS. SOIL INFORMATION RELEASED IN THE SPECIFICATIONS IS FOR GENERAL INFORMATION ONLY. THE ACTUAL CONDITIONS MAY VARY AT THE SITE. 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	#6 BARS OR LARGER 2" SMALLER THAN #6 BARS 1 1/2" SLABS POURED TO FORMS: 1 1/2" FORMED SURFACE (NOTE B) 3/4" TROWELED SURFACE (NOTE B) 1" SCREEDED SURFACE FOR APPLIED TOPPING 3/4"
10. THE CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SLABS POURED ON GRADE: FROM BOTTOM SURFACE TROWELED SURFACE (NOTE B) SCREEDED SURFACE FOR APPLIED TOPPING
11. VERIFY SIZE AND LOCATIONS OF HOLES AND SLEEVES THROUGH MASONRY AND CONCRETE WALLS AND SLABS WITH MECHANICAL AND PLUMBING CONTRACTORS.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(NOTE A)EXCLUDING SLABS POURED ON GRADE.(NOTE B)INCREASE BY 1/2" IF SURFACE IS TO BE IN PERMANENT CONTACT WITH GROUND OR WATER.
12. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY WOOD SHEAR WALLS AND STEEL FRAMES (SEE PLAN SHEETS FOR LOCATIONS). THESE WALLS AND FRAMES PROVIDE ALL LATERAL LOAD RESISTANCE IN EACH ORTHOGONAL BUILDING DIRECTION. THE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	 UNLESS OTHERWISE SHOWN OR NOTED, SPLICING OF REINFORCING BARS OR WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ACI 318. ADDANASE, ADDASE, AND ASSUMPTING THE DADA AND DADA OUTPODED TO THE DEVISION OF ACI 318.
WOOD ROOF AND FLOOR DECKS SERVE AS HORIZONTAL DIAPHRAGMS THAT DISTRIBUTE THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE SHEAR WALLS AND FRAMES. THE SHEAR WALLS AND FRAMES CARRY THE APPLIED LATERAL LOADS TO THE BUILDING FOUNDATION.	$\begin{array}{rcl} 100 & = & +29.2/-32.1 \\ 500 & = & +25.6/-28.5 \end{array}$	 ARRANGE, SPACE, AND SECURELY TIE BARS AND BAR SUPPORTS TO HOLD REINFORCEMENT IN POSITION DURING CONCRETE PLACEMENT OPERATIONS. SET WIRE TIES SO ENDS ARE DIRECTED INTO CONCRETE. PROVIDE SUPPORT FOR REINFORCEMENT INCLUDING BOLSTERS, CHAIRS, AND SPACERS WITH SAND
 13. SEE ARCHITECTURAL DRAWINGS FOR: SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS, EXCEPT AS SHOWN OR NOTED. FLOOR AND ROOF FINISHES, DRAINAGE, AND WATERPROOFING FIREPROOFING REQUIREMENTS 	$5 10 = +34.3/-45.9 \\ 20 = +32.8/-42.9 \\ 50 = +30.7/-38.8 \\ 100 = +29.2/-35.7 \\ 500 = -29.2/-35.7 \\ 500$	PLATES FOR SUPPORTING AND FASTENING REINFORCING BARS TO PROVIDE THE CONCRETE COVER INDICATED. 10. ALTERNATE LOCATION OF LAP SPLICE IN WALLS AND SLABS.
DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. 14. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR:	500 = +25.6/-28.5 EARTHQUAKE DESIGN DATA	11. USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.
 PIPE RUNS, SLEEVES, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES. DUCTWORK LOCATIONS FOR COORDINATION WITH TRUSS MEMBER LAYOUT. 	I = 1.25 RISK CATEGORY = III Ss = 1.119 S1 = 0.392	12. ALL KEYS FOR CONSTRUCTION JOINTS SHALL BE 2" X 4" (NOMINAL) UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
15. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, AND WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.	SITE CLASS = D SDS = 0.79 SD1 = 0.418 SEISMIC DESIGN CATEGORY = D BASIC SEISMIC-FORCE- PESISTING SYSTEM = LICHT EPAME WALLS WITH WOOD	13. UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE 2-#5 BARS (1-EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO SIDES OF OPENING AND EXTEND 24" BEYOND CORNERS.
 16. FOR PIPES EMBEDDED IN CONCRETE: a. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR. b. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS. c. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR. 	$\begin{array}{rcl} \mbox{RESISTING SYSTEM} &= & \mbox{LIGHT FRAME WALLS WITH WOOD} \\ & \mbox{SHEAR PANELS (NORTH-SOUTH DIRECTION)} \\ \mbox{R} &= & 6.5 \\ \mbox{Cs} &= & 0.151 \\ \mbox{V} &= & 0.151W \\ \end{array}$ $\begin{array}{rcl} \mbox{BASIC SEISMIC-FORCE-} \end{array}$	PREFABRICATED WOOD JOISTS/TRUSSES:
17. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.	RESISTING SYSTEM = ORDINARY STEEL MOMENT FRAMES (EAST-WEST DIRECTION) R = 3.5 Cs = 0.280 V = 0.280W	 METAL PLATE CONNECTED ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TPI "NATIONAL DESIGN STNADARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" TPI HIB COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES", AND TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL
18. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING, SHORING FOR LOADS DUE TO	BASIC SEISMIC-FORCE- RESISTING SYSTEM = ORDINARY STEEL CONCENTRICALLY BRACED FRAMES (EAST-WEST DIRECTION) R = 3.25	 PLATE CONNECTED WOOD TRUSSES." 2. THE CONTRACTOR SHALL PROVIDE CONTINUOUS LATERAL BRACING AS REQUIRED BY THE TRUSS MANUFACTURER'S TRUSS DESIGN DRAWINGS AND BCSI-B3. ALL CONTINUOUS PERMANENT BRACING SHALL BE DIAGONALLY BRACED AT 20'-0" OC MAXIMUM, ONCE MINIMUM.
CONSTRUCTION EQUIPMENT, ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISIONS OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION, UNLESS NOTED OTHERWISE. OBSERVATION VISITS	Cs = 0.301 V = 0.301W	 SHOP DRAWINGS SHALL SHOW LOCATION, PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED. INDICATE SIZES, STRESS GRADES, AND SPECIES OF LUMBER.
TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.	ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE ANALYSIS	4. TRUSSES, TRUSS BRACING, AND TRUSS TO TRUSS CONNECTIONS SHALL BE DELEGATED DESIGN. SUBMIT ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. DELEGATED DESIGN INCLUDES MEMBER SIZES OF TRUSS AS WELL AS PERMANENT BRACING REQUIRED TO PREVENT BUCKLING OF INDIVIDUAL TRUSS MEMBERS DUE TO DESIGN LOADS.
FOUNDATIONS: 1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL		A. MAXIMUM VERTICAL DEFLECTION: ROOF TRUSSES - L/240 FOR TOTAL LOAD AND L/360 FOR LIVE LOAD.
REPORT(S): REPORTS OF SOIL EXPLORATION BY SCI ENGINEERING, INC REPORT NO. 2004-0063. 10, TASK 100 DATED SEPTEMBER 2018		FLOOR TRUSSES - L/360 FOR TOTAL LOAD AND L/480 FOR LIVE LOAD. 5. LUMBER: DOC PS 20 AND APPLICABLE RULES-WRITING AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) BOARD OF REVIEW. PROVIDE LUMBER GRADED BY AN AGENCY CERTIFIED
 COPIES OF THE REPORT(S) AND ANY ADDENDUM/SUPPLEMENTAL LETTERS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES. 		BY THE ALSC BOARD OF REVIEW TO INSPECT AND GRADE LUMBER UNDER THE RULES INDICATED. 1. PROVIDE DRY LUMBER WITH 19% MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING.
3. FOOTING DESIGN CRITERIA: ALLOWABLE BEARING CAPACITY 2,000 PSF FOR WALL FOOTINGS 2,400 PSF FOR ISOLATED FOOTINGS PASSIVE LATERAL RESISTANCE 250 PSF	WOOD:	6. DELEGATED DESIGN TRUSSES SHALL BE DESIGNED FOR IN PLANE AXIAL LOADS AND SPECIAL CONNECTION REQUIREMENTS WHERE INDICATED ON PLANS.
COEFFICIENT OF FRICTION 0.3 FROST DEPTH 30 IN.	1. ENGINEERED TIMBER CONSTRUCTION DESIGNED IN ACCORDANCE WITH THE "NATIONAL	
4. COMPACTED FILL FOR THE PURPOSE OF UNDERLYING BUILDING OR SITE STRUCTURES SHALL BE PREPARED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.	DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION DATED 2015.	
5. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR EXTENT AND DEPTH OF OVEREXCAVATION (SUB- EXCAVATION), AND FOR RECOMPACTION AND SOIL CONDITIONING REQUIREMENTS.	A. WOOD BEAMS, HEADERS, RAFTERS, AND OTHER STRUCTURAL WOOD MEMBERS WHICH ARE 2" TO 4" THICK AND WIDER THAN 6" SHALL BE MIXED SOUTHERN PINE NO.2 AND HAVE THE FOLLOWING MINIMUM PROPERTIES:	
6. BOTTOM DEPTHS OF EXCAVATION AS WELL AS ALL PLACEMENT AND COMPACTION OF FILL SHALL BE OBSERVED AND TESTED BY THE PROJECT GEOTECHNICAL ENGINEER.	Fb (SINGLE MEMBER USE) 2100 PSI Fc (PARALLEL TO GRAIN) 1800 PSI Fc (PERPENDICULAR TO GRAIN) 565 PSI	
 ALL PAD FOOTINGS SHALL BE CENTERED ON BUILDING COLUMN REFERENCE LINES UNLESS INDICATED BY AN OFFSET DIMENSION. 	Fc (PERPENDICULAR TO GRAIN) 565 PSI Fv 175 PSI E 1,800,000 PSI	
8. ALL WALL FOOTINGS SHALL BE CENTERED ON WALL CENTERLINE UNLESS INDICATED BY AN OFFSET DIMENSION.	2. TIMBER CONNECTIONS SHALL BE AS SHOWN ON THE DRAWINGS, AND WHEN NOT DETAILED, SHALL CONFORM TO ACCEPTED INDUSTRY STANDARDS SUBJECT TO THE	
9. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL OR COMPACTED FILL WHICH HAS A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO OR GREATER THAN THAT NOTED ABOVE.	ENGINEER'S APPROVAL. 3. LVL BEAMS WHERE SPECIFIED SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:	
10. BACKFILL SHALL BE PLACED EVENLY AGAINST EACH SIDE OF SUBGRADE STRUCTURAL ELEMENTS TO PRODUCE APPROXIMATELY EQUAL AND OPPOSITE LATERAL PRESSURES.	Fb (SINGLE MEMBER USE) 2600 PSI Fc (PARALLEL TO GRAIN) 2510 PSI Fc (PERPENDICULAR TO GRAIN) 750 PSI Fv 285 PSI E 2,000,000 PSI	
	 4. ENGINEERED TIMBER CONSTRUCTION TO BE DESIGNED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION DATED 2015. 	
	5. TIMBER CONNECTIONS SHALL BE AS SHOWN ON THE DRAWINGS, AND WHEN NOT DETAILED, SHALL CONFORM TO ACCEPTED INDUSTRY STANDARDS SUBJECT TO THE	
	ENGINEER'S APPROVAL	



SHEET NUMBER:



SHEET 8 OF 25 ISSUE DATE: 10/22/2024

SPECIAL INSPECTION:

- INSPECTIONS AND TESTING SERVICES SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY (IES) PROVIDED BY THE OWNER IN CONFORMANCE WITH CHAPTER 17 OF THE IBC.
- 2. INSPECTIONS AND TESTING SHALL BE PERFORMED FOR, BUT NOT LIMITED TO, THE FOLLOWING:
- 3. PERIODIC INSPECTION OF STEEL FABRICATOR'S SHOP FOR QUALITY CONTROL AND FABRICATION PROCESSES THAT COMPLY WITH AISC CODE OF STANDARD PRACTICE.
- 4. PERIODIC INSPECTION OF BOLTED AND WELDED STEEL CONNECTIONS IN THE FIELD PER TABLE 1704.3 OF THE LATEST INTERNATIONAL BUILDING CODE
- 5. PERIODIC INSPECTION OF CONCRETE MATERIALS, REINFORCING AND PLACEMENT SHALL BE INSPECTED PER TABLE 1704.4 OF THE LATEST INTERNATIONAL BUILDING CODE.
- 6. PERIODIC INSPECTION OF MASONRY MATERIALS, REINFORCING & PLACEMENT SHALL BE INSPECTED PER TABLE 1704.5.3 OF THE LATEST INTERNATIONAL BUILDING CODE.
- 7. INSPECTION OF SITE SOILS, FILL PLACEMENT, AND BEARING CAPACITIES BY A LICENSED GEOTECHNICAL ENGINEER AS FOLLOWS:
- A. OBSERVATION OF PROOF ROLLING FOR THE SITE PRIOR TO FILL PLACEMENT. COMPACTION TESTING OF STRUCTURAL FILL PLACEMENT. LIFTS SHALL NOT EXCEED 8" B. COMPACT STRUCTURAL FILL TO 95% DRY DENSITY AS MEASURED BY THE STANDARD PROCTOR METHOD, ASTM D-698
- C. PROVIDE BEARING TESTS AT EACH FOOTING LOCATION TO CONFIRM BEARING CAPACITY.
- 8. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY/COUNTY INSPECTOR.
- 9. SPECIAL INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT APPROVAL OF LOCAL AND SPECIAL INSPECTORS IS SUBJECT TO REMOVAL OR EXPOSURE.
- 10. SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY/COUNTY TO PERFORM THE TYPES
- 11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- 12. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.

VERIFICATION AND INSPECTION FOR SOILS						
SPECIAL INSPECTION		INSPECTION	FREQUENCY	REFERENCED	IBC REFERENCE	
REQUIRED	VERIFICATION, INSPECTION AND TESTING	CONTINUOUS	PERIODICALLY	STANDARD		
YES	1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	-	х			
YES	2. Verify excavations are extended to proper depth and have reached proper material	-	х			
YES	3. Perform classification and testing of compacted fill materials	-	Х	-	TABLE 1705.6	
YES	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	х	-			
YES	5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly	-	х			
YES	6. Verify installation of drain tile (gravity, mechanical)	-	Х			

in-place dry density of the compacted fill is not less than 90 percent of the maximum dry density at optimum moisture content determined in accordance with ASTM D 1557.

Note: The approved geotechnical report, and the construction documents prepared by the registered design professionals shall be used to determine compliance. During fill placement, the special inspector shall determine that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report.



Exceptions: 1) Wind Exposure Category B, where Vasd as determined in accordance with Section 1609.3.1 is 120 miles per hour or greater 2) In wind Exposure Category C or D, where Vasd as determined in accordance with Section 1609.3.1 is 110 miles per hour or greater

	VERIFICATION AND INSPECTION FOR		NSTRUCTION	١	
SPECIAL INSPECTION		INSPECTION	ON FREQUENCY REFE	REFERENCED	IBC REFERENCE
REQUIRED	VERIFICATION, INSPECTION AND TESTING	CONTINUOUS	PERIODICALLY	STANDARD	
	1. High-Load Diaphragms				
YES	 A) Inspect wood structural panel sheathing grade and thickness to agree with the approved construstruction documents 	х	-		1705.5
YES	B) Verify the nominal size of framing members ajoining panel edges, the nail or staple diameter and length, the number of fastener lines and that the spacing between fasteners in each line and at edge margins agrees with the approved construction documents	х	-	REFERENCED	
	2. Metal-Plate-Connected Wood Trusses				
YES	A) Verify installation of the permanent individual truss member restraint/bracing agrees with the approved truss submittal package where wood trusses have overall heights of 60 inches or greater	х	-		
YES	B) Verify that temporary installation of restraint/bracing is installed in accrodance with the approved truss submittal package for wood trusses with a clear span of 60 feet or greater	Х	-		

	VERIFICATION AND INSPECTION FOR C	ONCRETE C	ONSTRUCT	ON	
SPECIAL INSPECTION	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY		REFERENCED	IBC
REQUIRED	VERIFICATION, INSPECTION AND TESTING	CONTINUOUS	PERIODICALLY	STANDARD	REFERENCE
YES	1. Inspection of reinforcing steel and verifying placement	-	x	ACI 318: Ch 20, 25.2, 25.3, 26.6.1-26.6.3; IBC: 1908.4	
	2. Inspection of reinforcing steel welding				
YES	A) Verification of weldability (determination of carbon equivalent) for reinforcing steel other than ASTM A 706	-	x	AWS D1.4; ACI	
YES	B) Inspect single-pass fillet welds, maximum 5/16"	-	Х	318: 26.6.4	
YES	C) Inspect all other welds	х	-		
YES	3. Inspection of anchors cast in concrete	-	Х	ACI 318: 17.8.2	
	4. Inspection of anchors post-installed in hardened concrete members			ACI 318: 26.12.3.2(c), 17.8.2.	
YES	A) Adhesive anchors installed horizontally or in upwardly-inclined orientations to resist sustained tension loads	x	-		
YES	B) Mechanical anchors and adhesive anchors not defined in 4.A	-	Х		
YES	5. Verifying use of required design mix	-	x	REFERENCED STANDARD ACI 318: Ch 20, 25.2, 25.3, 26.6.1-26.6.3; IBC: 1908.4 AWS D1.4; ACI 318: 26.6.4 AWS D1.4; ACI 318: 26.6.4 ACI 318: 17.8.2 ACI 318: 17.8.2	1705.3
YES	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	x	-		
YES	7. Inspection of concrete placement for proper application techniques	x	-	IBC: 1908.6,	
YES	8. Inspection/verification of maintenance of specified curing temperature and techniques	-	х	26.5.3-26.5.5;	
YES	9. Verify in-situ concrete strength prior to removal of shores and forms from beams and structural slabs	-	x		
YES	10. Inspect formwork for shape, location and dimensions of the concrete member being formed	-	х		

SPECIAL	VERIFICATION, INSPECTION AND TESTING	INSPECTION	FREQUENCY	REFERENCED	IBC
REQUIRED		CONTINUOUS	PERIODICAL	STANDARD	REFERENCE
	1. Structural Wood				
YES	A) Field gluing operations of elements of the main windforce-resisting system(Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other element sof the main windforce-resisting system, where the specified fastener spacing at panel edges in more than 4 inches on center)	Х	-		
YES	B) Nailing, bolting, anchoring and other fastening of elments of the main windforce-resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs (Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the main windforce-resisting system, where the specified fastener spacing at panel edges in more than 4 inches on center)	-	x		
	2. Cold-Formed Steel Light-Frame Construction				
YES	A) Welding operations of elements of the main windforce-resisting system (Special inspections are not required if either of the following applies: a) the sheathing is gypsum board or fiberboard b) the sheathing is wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm assembly and the fastener spacing of the sheathign is more than 4 inches on center)	-	x	-	1705.11
YES	B) Screw attachment, bolting, anchoring and other fastening of elements of the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs (Special inspections are not required if either of the following applies: a) the sheathing is gypsum board or fiberboard b) the sheathing is wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm assembly and the fastener spacing of the sheathign is more than 4 inches on center)	-	х		
	3. Wind Resisting Components				
YES	A) Roof covering, roof deck and roof framing connections	-	х		
YES	B) Exterior wall covering and wall connections to roof and floor diaphragms and framing	-	х]	

SPECIAL		INSPECTION	FREQUENCY	REFERENCE	IBC
NSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	CONTINUOUS	PERIODICALLY	D STANDARD	REFERENCE
	1. Structural Steel				
NO	A) Special inspections for structural steel in accordance with the quality assurance requirements of AISC 341, including nondestructive testing of structural steel elements in the seismic force-resisting system (Special Inspections of structural steel in Seismic Design Category B or C with R designated for "Steel systems not specifically detailed for siesmic resisitnace, excluding cantilever column systems" and structural steel in Seismic Design Category D, E, or F where design and detailing in accorance with AISC 360 is exempt from special inspections in this section)	Х	-	AISC 341	1705.12.1
	2. Structural Steel Elements				
NO	A) Special inspections of structural steel elements including struts, collectors, chords and foundation elements shall be performed in accordance with AISC 341, including nondestructive testing (Special Inpsections of structural steel elements in Seismic Design Category B or C with R of 3 or less and structural steel elements in Seismic Design Category D, E, or F where design and detailing in accordance with AISC 360 is exempt from special inpsection in thi	Х	-	AISC 341	1705.12.1
	3. Structural Wood				
YES	A) Field gluing operations of elements of the seismic force-resisting system (Special Inpsections of structural wood are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring, and other fastening to other elements of the seismic force-resisting system where the fastener spacing of the sheathing is more than 4 inches on center)	Х	-		1705.12.2
YES	B) Nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system including wood shear walls, wood diaphragms, drag struts, braces, shear panels, and hold-downs (Special Inpsections of structural wood are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring, and other fastening to other elements of the seismic force-resisting system where the fastener spacing of the sheathing is more than 4 inches on center)	-	х	-	1705.12.2
	4. Cold-formed Steel Light-frame Construction				
YES	A) Welding operations of elements of seismic force-resisting system	-	Х		
YES	B) Screw attachment, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs (Special Inpsections of cold-formed steel light-frame construction are not required where either the sheating is gypsum board or fiberboard or the sheathing is wood structural panel or sheets on only one side of the shear wall, shear panel or diaphragm assembly and the fastener spacing is more than 4 inches on center)	-	Х	-	1705.12.3
	5. Designated Seismic Systems				
YES	A) Examine designated seismic systems requiring seismic qualification in accordance with Section 13.2.2 of ASCE 7 and verify the label, anchorage or mounting conforms to the certificate of compliance. (Structures assigned to Seismic Design Category C,	-	-	-	1705.12.4
YES	6. Architectural Components				
	A) During erection and fastening of exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer for structures assigned to Seismic Design Category D, E or F (Special Inpsection of architectural componenets are not required for exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer 30 feet of less above grade or walking surface, exterior cladding and interior and exterior veneer weighing 5 psf of less, or interior nonbearing walls weighing 15 psf or less)	-	х	-	1705.12.5
	B) Anchorage of access floors in structures assigned to Seismic	_	х		
	Design Category D, E or F 7. Plumbing, Mechanical and Electrical Components.				
YES	A) During anchorage of electrical equipment for emergency or standby power systems in structures assigned to Seismic Design Category C, D, E or F	-	х		
	B) During anchorage of other electrical equipment in structures assigned to Seismic Design Category E or F	_	Х		
YES	C) During installation and anchorage of piping systems designed to carry hazardous materials and their associated mechanical units in structures assigned to Seismic Design Category C, D, E or F	-	х		
YES	 D) During the installation and anchorage of ductwork designed to carry hazardous materials in structures assigned to Seismic Design Category C, D, E or F 		х		
YES	 E) During the installation and anchorage of vibration isolation systems in structures assigned to Seismic Design Category C, D, E or F where the construction documents require a nominal clearance of 1/4-inch or less between the equipment support frame and 	_	x	-	1705.12.6
YES	F) During installation of mechanical and electrical equipment, including duct work, piping systems, and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to Seismic Design Category C,D,E or F to verify one of the following: a) Minimum clearances have been provided as required by Section 13.2.3 of ASCE 7 b) A nominal clearance of not less than 3 inches has been provided between fire protection sprinkler system drops and sprigs and: structural members are not used collectively or independently to support the sprinkers; equipment attached to the building structure; and other systems' piping (Where flexible sprinkler hose fittings are used, special inspection of minimum	_	x		
	7. Storage Racks				
NO	A) During installation of required anchorage of storage racks that are 8 feet or greater in height in structures assigned to Sesismic	-	Х	-	1705.12.7
	8. Seismic Isolation Systems				
NO	 A) During fabrication and installation of isolator units and energy dissipation devices in seismically isolated structures assigned to Seismic Design Category B, C, D, E or F 9. Cold-formed Steel Special Bolted Moment Frames 	-	Х	-	1705.12.8
NO	A) During installation of cold-formed steel special bolted moment frames in seismic force-resisting systems of structures assigned to	_	x	-	1705.12.9

2) The sesimic force-resisting system consists of reinforced masonry or reinforced concrete, Sds does not exceed 0.5, and the building height of the structure does not exceed 25 feet. 3) The structure is a detached one- or two-family dwelling not exceeding two stories above grade plane and does not have any of the following horizontal or vertical irregularities: a) Torsional or extreme torsional irregularity b) Nonparallel systems irregularity c) Stiffness-soft story or stiffnes-extreme soft irregularity d)Discontinuity in lateral strength-weak story irregularity

SEALED DATE: 10/23/202 Farnsworth GROUP 20 ALLEN AVENUE, SUITE 200 ST LOUIS, MISSOURI 63119 (314) 962-7900 / info@f-w.com Farnsworth Group, Inc. Missouri State Certificate of Authority #000744 www.f-w.com Engineers | Architects | Surveyors | Scientists OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSTRUCTION MISSOURI VETERANS COMMISSION

STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr, Cape Girardeau, MO 63701

PROJECT #	t.: U2415.01
SITE #.:	6803
ASSET #.:	8136803002
FAI #.:	29-043
# DATE:	DESCRIPTION:

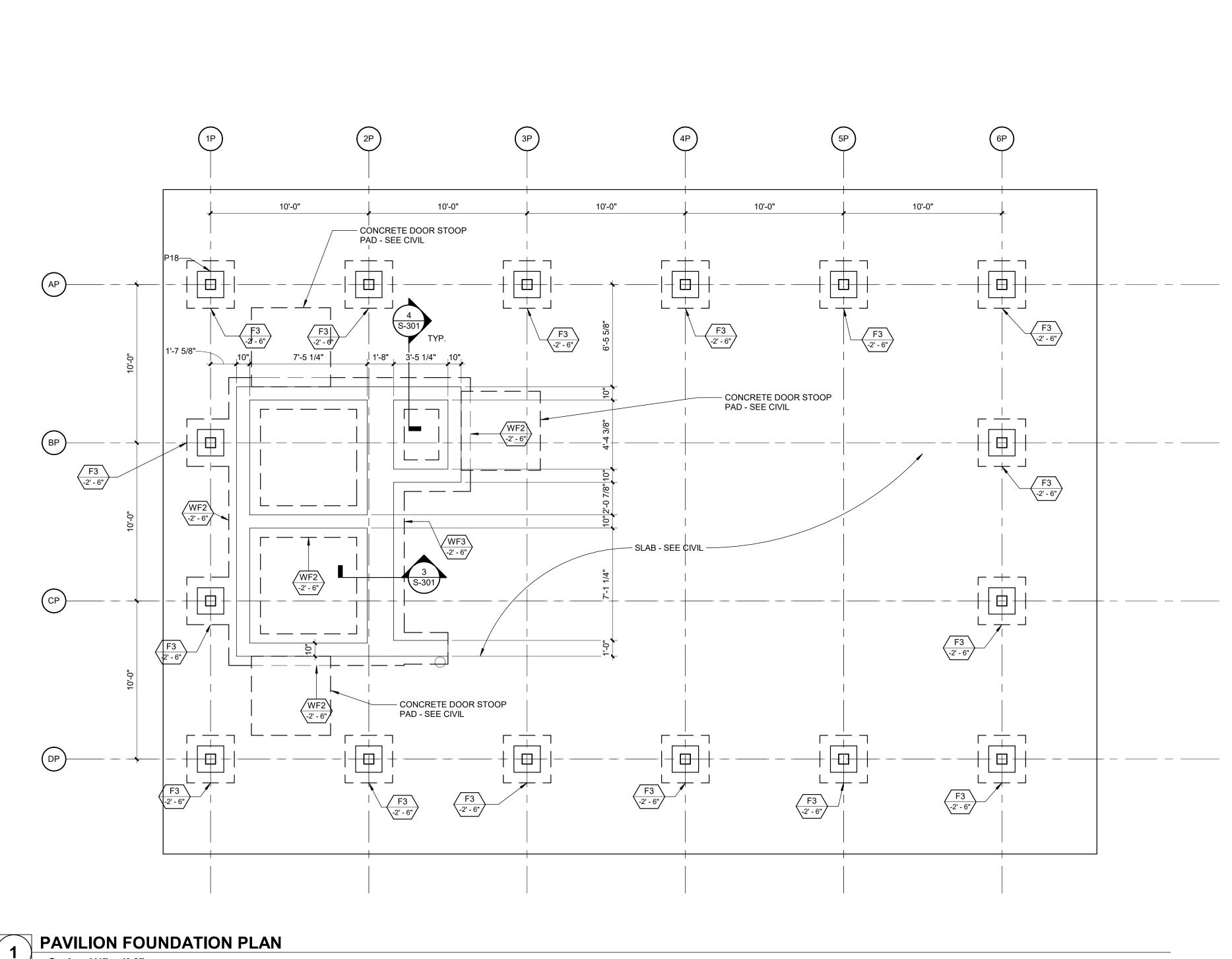
DRAWN BY: AJC CHECKED BY: DKS DESIGNED BY: AMC SHEET TITLE:

SPECIAL INSPECTIONS

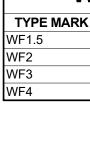
SHEET NUMBER:



SHEET 9 OF 25 ISSUE DATE: 10/22/2024



Scale: 1/4" = 1'-0"



PEDESTAL SCHEDULE								
TYPE MARK	WIDTH	DEPTH	VERTICAL REINF	HORIZONTAL REINF				
P18	1' - 8"	1' - 8"	(16) #5	#4 TIES AT 10" OC. TOP 12" AT 3" OC.				
P2	2' - 0"	2' - 0"	(22) #5	#4 TIES AT 10" OC. TOP 12" AT 3" OC.				
P26	2' - 6"	2' - 6"	(24) #5	#4 TIES AT 10" OC. TOP 12" AT 3" OC.				
P3	3' - 0"	3' - 0"	(26) #7	#4 TIES AT 10" OC. TOP 12" AT 3" OC.				

	PAD FOOTING SCHEDULE									
TYPE MARK	WIDTH	LENGTH	DEPTH	LONG	TRANS	REMARKS				
F3	3' - 0"	3' - 0"	1' - 0"	(4) #6 T&B	(4) #6 T&B					
F4	4' - 0"	4' - 0"	1' - 0"	(5) #6 T&B	(5) #6 T&B					
F5	5' - 0"	5' - 0"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B					
F7	7' - 0"	7' - 0"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B					
F10	10' - 0"	10' - 0"	1' - 6"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B					
F12	12' - 0"	12' - 0"	2' - 0"	#6 AT 12" O.C. T&B	#6 AT 12" O.C. T&B					

FOUNDATION NOTES

- A. SEE S-001 AND S-002 FOR GENERAL STRUCTURAL NOTES.
- B. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN..
- C. SEE ARCH FOR FLOOR SLAB SLOPE REQUIREMENTS.
- D. COORDINATE SIZES AND LOCATIONS OF OPENINGS THROUGH FLOOR DECK WITH MECHANICAL CONTRACTOR.
- E. SEE ARCH FOR TYPICAL BRACING AT T/CMU WALLS.
- F. T/ PAVILION COLUMN PEDESTAL ELEVATION = 580.11 TYP.

WALL FOOTING SCHEDULE THICKNESSLONG REINFTRANS REINF1' - 0"#5 AT 12" O.C.#5 AT 12" O.C.1' - 0"#5 AT 12" O.C.#5 AT 12" O.C. WIDTH 1' - 6" 3' - 0" 4' - 0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





Farnsworth GROUP

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr, Cape Girardeau, MO 63701

SITE #.: ASSET #.: FAI #.:

PROJECT #.: U2415.01 6803 8136803002 29-043

DATE:

DESCRIPTION:

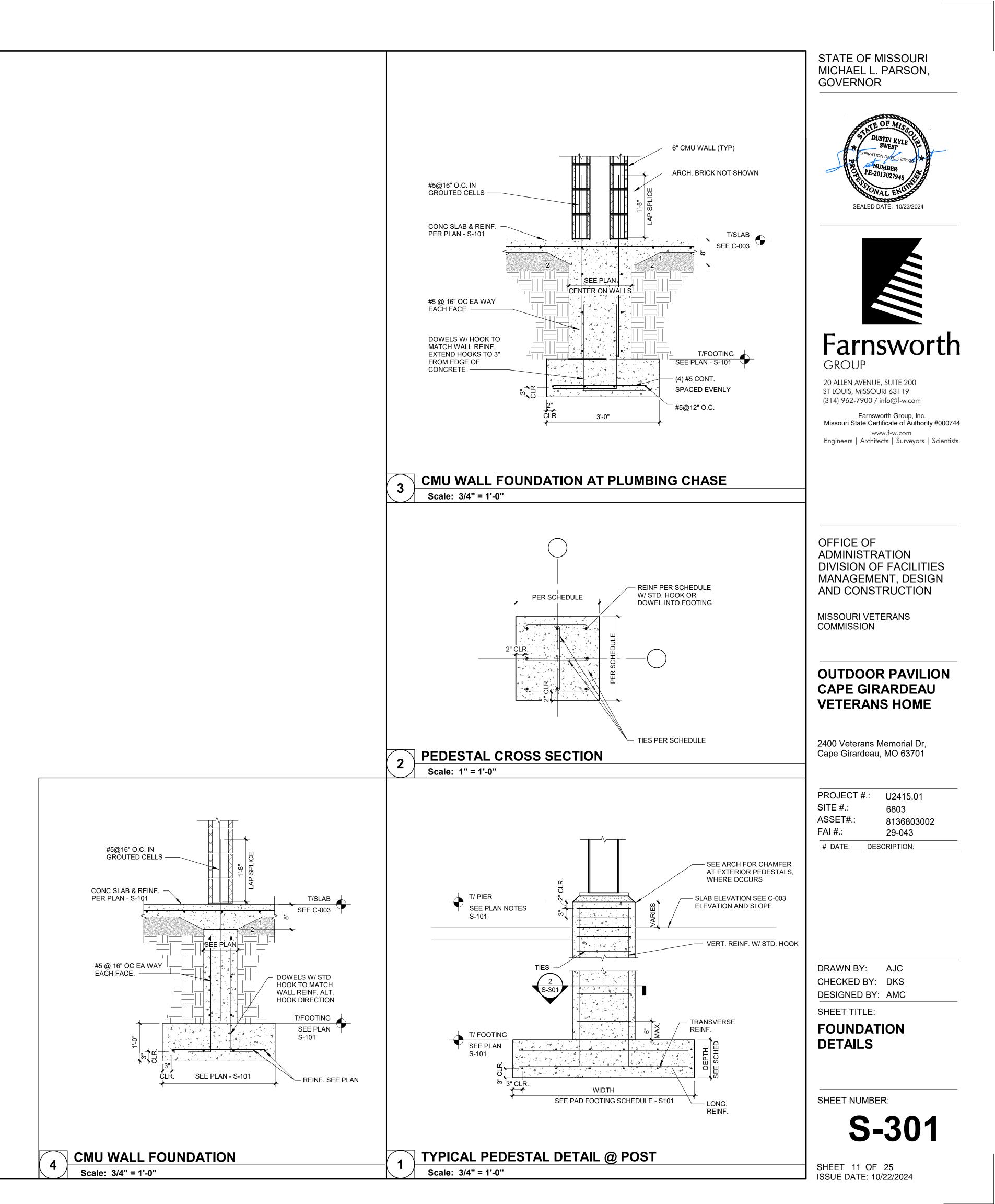
DRAWN BY: AJC CHECKED BY: DKS DESIGNED BY: AMC SHEET TITLE:

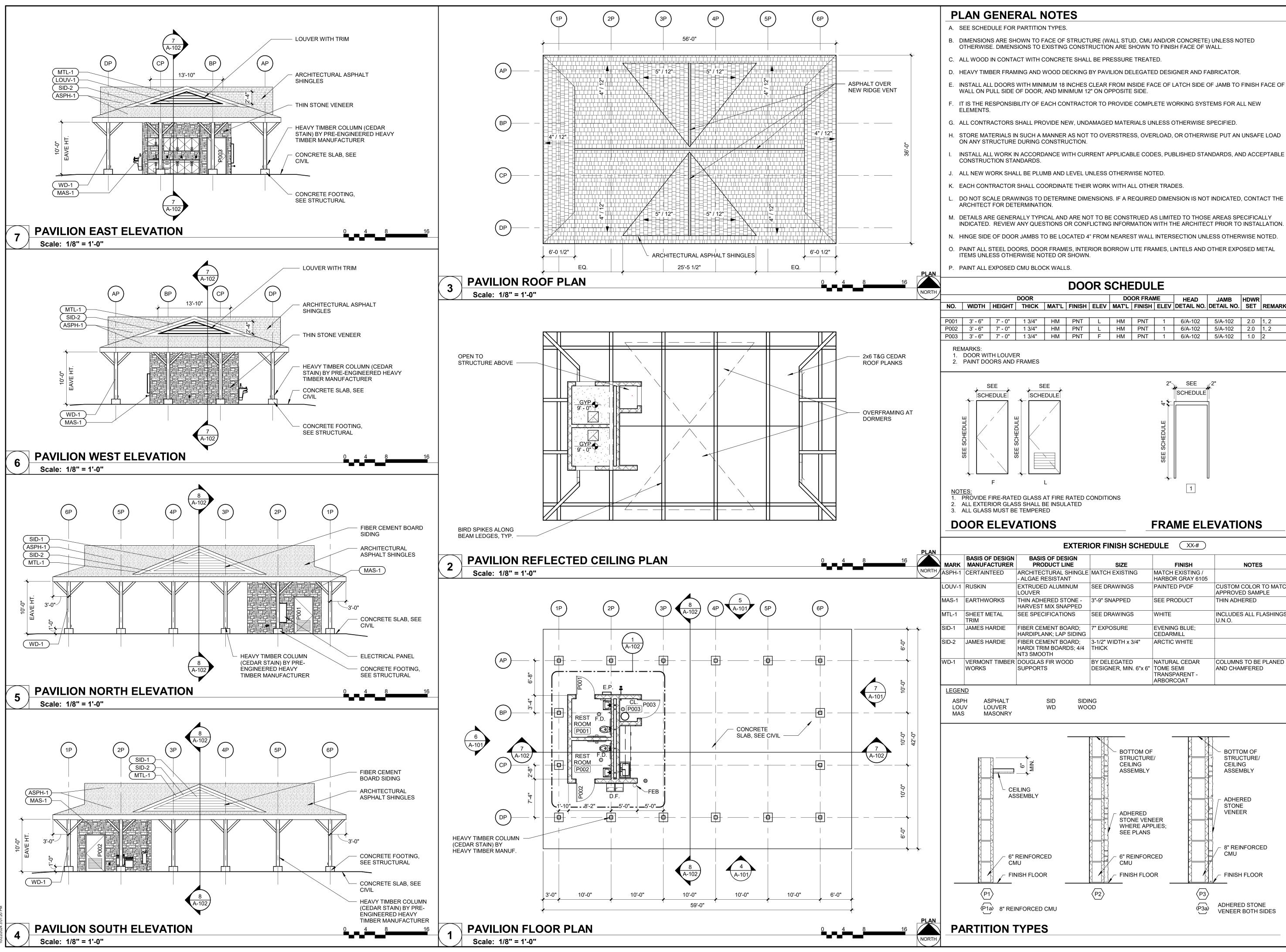
FOUNDATION PLAN **OUTDOOR PAVILION**

SHEET NUMBER:

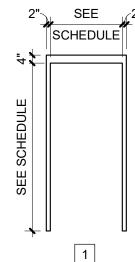


SHEET 10 OF 25 ISSUE DATE: 10/22/2024





DOOR			DOOR FRAME			HEAD	JAMB	HDWR				
	HEIGHT	THICK	MAT'L	FINISH	ELEV	MAT'L	FINISH	ELEV	DETAIL NO.	DETAIL NO.	SET	REMARKS
	7' - 0"	1 3/4"	HM	PNT	L	HM	PNT	1	6/A-102	5/A-102	2.0	1, 2
	7' - 0"	1 3/4"	НМ	PNT	L	НМ	PNT	1	6/A-102	5/A-102	2.0	1, 2



	EXTERI	OR FINISH SCHED	DULE XX-#	
OF DESIGN FACTURER	BASIS OF DESIGN PRODUCT LINE	SIZE	FINISH	NOTES
NTEED	ARCHITECTURAL SHINGLE - ALGAE RESISTANT	MATCH EXISTING	MATCH EXISTING / HARBOR GRAY 6105	
	EXTRUDED ALUMINUM LOUVER	SEE DRAWINGS	PAINTED PVDF	CUSTOM COLOR TO MATCH APPROVED SAMPLE
WORKS	THIN ADHERED STONE - HARVEST MIX SNAPPED	3"-9" SNAPPED	SEE PRODUCT	THIN ADHERED
METAL	SEE SPECIFICATIONS	SEE DRAWINGS	WHITE	INCLUDES ALL FLASHINGS U.N.O.
HARDIE	FIBER CEMENT BOARD; HARDIPLANK; LAP SIDING	7" EXPOSURE	EVENING BLUE; CEDARMILL	
HARDIE	FIBER CEMENT BOARD; HARDI TRIM BOARDS; 4/4 NT3 SMOOTH	3-1/2" WIDTH x 3/4" THICK	ARCTIC WHITE	
NT TIMBER	DOUGLAS FIR WOOD SUPPORTS	BY DELEGATED DESIGNER, MIN. 6"x 6"	NATURAL CEDAR TOME SEMI TRANSPARENT - ARBORCOAT	COLUMNS TO BE PLANED AND CHAMFERED

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





Farnsworth GROUP

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100% BID SET

10/22/2024

OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

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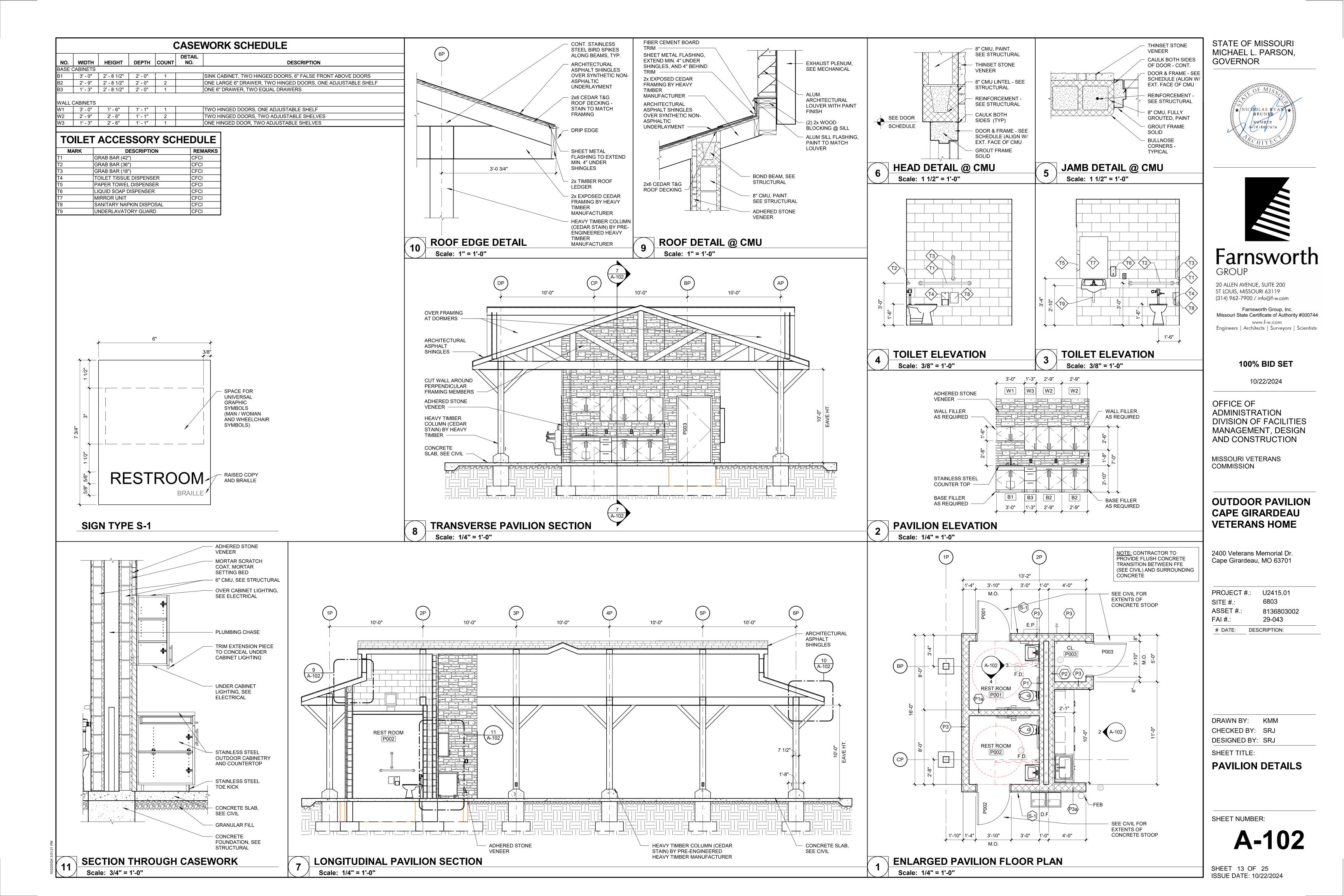
DRAWN BY: KMM CHECKED BY: SRJ DESIGNED BY: SRJ SHEET TITLE:

PAVILION PLANS, ELEVATIONS, & **SCHEDULES**

SHEET NUMBER:



SHEET 12 OF 25 ISSUE DATE: 10/22/2024



PLU	MBING SYMBOLS & AB	BREVI	atio	NS	A. WORK SHAI
	IOT ALL MAY BE USED ON THIS PROJECT				B. MATERIALS
ANNOTA AC	<u>TION ABBREVIATIONS</u> ABOVE CEILING	PLUMBING		<u>-OGY</u> IG SYSTEM	STATE AND HEALTH AN
AC	AREA DRAIN		AW	ACID WASTE	APPLICABLE "INTERNATI
AFF	ABOVE FINISHED FLOOR		CA	COMPRESSED AIR	NFPA 99, ST
BAS	BUILDING AUTOMATION SYSTEM		CD CO2	CONDENSATE DRAIN CARBON DIOXIDE	C. <u>MEANING A</u>
BF	BELOW FLOOR		G GW	NATURAL GAS GREASE WASTE	SCALES IND EVERY WAS
BG	BELOW GRADE		MA N2	MEDICAL AIR NITROGEN	BE FOLLOV
BH	BOOSTER HEATER		N2O OST	NITROUS OXIDE OVERFLOW STORM	PLUMBING
BFP	BACKFLOW PREVENTION DEVICE		OW O2	OIL WASTE OXYGEN	DIMENSION
BJ	BETWEEN JOISTS		PD ST	PUMP DISCHARGE STORM	WATER PIPI SO DIRECTE
BOP	BOTTOM OF PIPE		VAC WAGD	VACUUM WASTE ANESTHETIC GAS DISPOSAL	IS CONSIDE DRAWINGS
BTUH	BRITISH THERMAL UNITS PER HOUR		W	SANITARY WASTE	PRESENTED DEVICES TO
CF	COMBINATION FIXTURE		AV	ACID VENT	NOT SPECIF
COND	CONDENSATE		OV V	OIL VENT SANITARY VENT	UNDERSTO ARCHITECT
CP			CW	DOMESTIC COLD WATER	ASSEMBLIE
CSS CV	CLINICAL SERVICE SINK CONTROL VALVE		DI FCW	DE-IONIZED WATER FILTERED COLD WATER	D. COORDINAT
DF	DRINKING FOUNTAIN		NPCW RO	NONPOTABLE COLD WATER REVERSE OSMOSIS WATER	E. MAINTAIN A
DN	DOWN		HW	DOMESTIC HOT WATER	INSTALLING
DS	DOWNSPOUT NOZZLE		HW 140	DOMESTIC HOT WATER (OTHER TEMP)	DIRECTLY C REFER TO A
DW	DISHWASHER		HWC	DOMESTIC HW RECIRCULATION	F. INCLUDE IN
EC	ELECTRICAL CONTRACTOR				AUTHORITIE EXPENSES
EEW	EMERGENCY EYE WASH		PIPE SL	OPE ARROW	
EEWSH	COMB. EMERGENCY EYE WASH/SHOWER		FLOW A	RROW	G. PROVIDE AL PLUMBING S
ET	EXPANSION TANK		CONCE	NTRIC REDUCER	H. ALL CLEANO
EWC	ELECTRIC WATER COOLER		ECCEN	TRIC REDUCER	PANELS WH
EWH	ELECTRIC WATER HEATER	- ¥	3-WAY (CONTROL VALVE	ARCHITECT
FA	FROM ABOVE			GATE VALVE	
FB	FROM BELOW			GLOBE VALVE	I. PLUMBING (END OF EAC
FBO	FURNISHED BY OTHERS			CING/SHUTOFF VALVE	J. ALL PLUMBI
FCO			BALL VA		INTENDED U
FD FFA	FLOOR DRAIN FROM FLOOR ABOVE			RFLY VALVE ATED BALANCING VALVE	K. PROVIDE ST
FFB	FROM FLOOR BELOW		CHECK		FOR INDIVIE
FPC	FIRE PROTECTION SUBCONTRACTOR				L. SANITARY V AND AT 1/4-
FS	FLOOR SINK			SION VALVE	M. INDIRECT D
FT	FILL TANK		GAS CC		OTHER APP
GD	GARBAGE DISPOSAL	—	GATE V		BUT NOT LE SOURCE.
GPM	GALLONS PER MINUTE	— — —	GLOBE	VALVE	N. WHEREVER
GWH	GAS WATER HEATER	↓	PLUG V	/ALVE	FROM CENT
GC	GENERAL CONTRACTOR	`	PRESSU	JRE REDUCING VALVE (WATER)	O. ALL VENT T
HAP	HIGH AS POSSIBLE	_ ↓	PRESSI	JRE REGULATOR (GAS)	OPENINGS.
HB	HOSE BIBB (INTERIOR)		QUICK (OPEN VALVE	P. PLUMBING (OR ATTACH
HS	HOSE STATION			RELIEF VALVE	Q. PLUMBING
HWCP		 ച			2" OF NAILIN
IM					R. PLUMBING
L	LAVATORY LAUNDRY TUB			.OW PREVENTER IBB / SILLCOCK	FEATURE. I INDIVIDUAL
MBH	THOUSANDS OF BTU PER HOUR			ATIC AIR VENT	FOR WATER UPSTREAM
MC	MECHANICAL CONTRACTOR			JRE GAUGE	PROVIDE AC
MSB	MOP SINK BASIN			OMETER	
NTS	NOT TO SCALE	■ –(F)	FLOW S	WITCH	S. MINIMIZE DE FIXTURES A
ORD	OVERFLOW ROOF DRAIN	■ –(P)	PRESSI	JRE SWITCH	T. ALL P-TRAP
Р	PUMP	■ –(T)	TEMPE	RATURE SWITCH	U. PLUMBING
PC	PLUMBING CONTRACTOR		PIPE UN	lion	RECOMMEN
PRV	PRESSURE RELIEF VALVE		WYE ST	RAINER	V. PROJECT LO
RD	ROOF DRAIN		WYF ST	RAINER W/DRAIN VALVE	
SC	SILLCOCK (EXTERIOR)	5×			
SE	SEWAGE EJECTOR		PUMP		
SF	SQUARE FOOT			DRAIN - ROUND OR SQUARE	
SH	SHOWER			CLEANOUT - ROUND OR SQUARE	
SK	SINK				
SP				LEANOUT	
SS TFA	SERVICE SINK TO FLOOR ABOVE	 	PIPE CA	،۹ RNING DOWN	
TB	TO FLOOR ABOVE		_	IRNING DOWN	
TFB	TO FLOOR BELOW	0 	TEE UP		
TMV	THERMOSTATIC MIXING VALVE		TEE DO	WN	
TOP	TOP OF PIPE	ء 		ND RUN	
TYP	TYPICAL			ND TURN	
UR	URINAL		TEE OF		
VB	VACUUM BREAKER		TEE OF	F BOTTOM	
VTR	VENT THRU ROOF	<u> </u>	CROSS	AND RISER	
WB	WASHER BOX	- h	PLAN 90)° ELBOW	
WC	WATER CLOSET	_+ ± +-	PIPE TE	E	
WCO	WALL CLEANOUT			E PIPE CONNECTOR	
WF	WATER FILTER	— <u>×</u> —	PIPE AN		
WS	WATER SOFTENER		PIPE GL		
YCO	YARD CLEANOUT	M	WATER	METER	
ΔΝΝΟΤΑ	ATION SYMBOLOGY				
		\frown			
(#)	PLUMBING KEYNOTE	$\left(\begin{array}{c} \#\#\\ \#\end{array}\right)$	DETAIL	IODULE NUMBER OR SECTION MARK	
K22	KITCHEN EQUIPMENT DESIGNATION	#			
NEW	BOLD TEXT INDICATES NEW ITEM			OF NEW CONNECTION	
(E)EXISTING	ITALIC TEXT INDICATES EXISTING ITEM	(L1)	PLUMBI	NG EQUIPMENT DESIGNATION	1

PLUMBING GENERAL NOTES

WORK SHALL BE PERFORMED BY A LICENSED PLUMBER OF THE STATE OF MISSOURI.

. MATERIALS, INSTALLATION, AND TESTING SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF STATE AND LOCAL CODE PROCEDURES, METHODS, AND REQUIREMENTS, INCLUDING THE MOST STRINGENT OF HEALTH AND SAFETY STANDARDS AS REQUIRED AND AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION. APPLICABLE CODES AND STANDARDS INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: "INTERNATIONAL PLUMBING, BUILDING, ENERGY, MECHANICAL, AND FUEL GAS CODES" NFPA 99, STANDARD FOR HEALTHCARE FACILITIES

MEANING AND INTENT OF DRAWINGS: DRAWINGS ARE DIAGRAMMATIC. PIPING IS SHOWN IN SCHEMATIC FORM. SCALES INDICATED ARE FOR ARCHITECTURAL REFERENCE ONLY. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY WASTE, VENT, WATER PIPE, FITTING, SUPPORTS, ETC., AND IT IS UNDERSTOOD THAT THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT. THE PROPER INSTALLATION ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS, LOCAL CODES, AND STANDARD PRACTICES SHALL BE PROVIDED. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION. REPORT ANY PROBLEMS OR CONFLICTS TO THE ARCHITECT/ENGINEER. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS, DO NOT SCALE DRAWINGS, ANY MINOR CHANGES IN LOCATION OF EQUIPMENT, WASTE VENT, WATER PIPE, ETC., FROM THOSE LOCATIONS SHOWN ON THE DRAWINGS, SHALL BE MADE WITHOUT EXTRA COST, IF SO DIRECTED BY THE ARCHITECT/ENGINEER BEFORE THE INSTALLATION IS MADE. A MINOR CHANGE IN LOCATION IS CONSIDERED TO BE WITHIN 5'-0" OF THE ORIGINAL INDICATED LOCATION. THE EQUIPMENT INDICATED ON THESE DRAWINGS INCLUDE ONLY THE MAJOR EQUIPMENT REQUIREMENTS. NOT WITHSTANDING, THE DETAILS PRESENTED IN THESE DRAWINGS VERIFY THE COMPLETENESS OF THE MATERIALS LISTS AND SUITABILITY OF DEVICES TO MEET THE INTENT OF THIS PROJECT. ANY ADDITIONAL EQUIPMENT OR MATERIAL REQUIRED, EVEN IF NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE PROVIDED WITHOUT CLAIM FOR ADDITIONAL PAYMENT; IT BEING UNDERSTOOD THAT A COMPLETE AND OPERATIONAL PLUMBING SYSTEM, SATISFACTORY TO THE ARCHITECT/ENGINEER AND THE OWNER SHALL BE PROVIDED. USE ONLY THE MANUFACTURER'S TESTED ASSEMBLIES.

. COORDINATE ROUTING OF PIPING WITH ALL OTHER TRADES AND STRUCTURAL CONDITIONS TO AVOID ANY CONFLICTS.

. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ELECTRICAL PANELS AND 1'-0" EITHER SIDE WHEN INSTALLING PLUMBING SYSTEMS IN THE SAME AREA. PIPE SYSTEMS, EQUIPMENT, ETC., SHALL NOT BE ROUTED DIRECTLY OVER PANELS OR SWITCH GEAR, AND WHERE ABOVE MAY BE AS CLOSE AS 12 INCHES FROM PERIMETER. REFER TO ADOPTED ELECTRICAL CODES WHERE IN DOUBT.

. INCLUDE IN BID ALL LICENSE, PERMIT, INSPECTION, AND OTHER FEES REQUIRED BY UTILITY COMPANIES OR AUTHORITIES HAVING JURISDICTION REQUIRED FOR COMPLETION OF WORK SO THAT NO UNEXPECTED ADDITIONAL EXPENSES ARE INTRODUCED TO OWNER.

. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED TO ASSURE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS.

. ALL CLEANOUTS, VALVES, AIR CHAMBERS, ETC. ARE TO BE ACCESSIBLE. EXTEND PIPING AND PROVIDE ACCESS PANELS WHERE NECESSARY. PLUMBING CONTRACTOR WILL BE REQUIRED TO DEMONSTRATE ACCESSIBILITY IF IT IS QUESTIONABLE. ACCESS PANEL SIZES, LOCATIONS, AND FINAL COLOR SHALL BE COORDINATED WITH THE ARCHITECT AS WELL AS ALL OTHER TRADES TO AVOID ANY CONFLICTS. ACCESS PANELS PROVIDED BY PLUMBING CONTRACTOR FOR INSTALLATION BY GENERAL CONTRACTOR.

PLUMBING CONTRACTOR SHALL CLEAN WORK AREA OF ALL DUST AND DEBRIS GENERATED BY THEIR WORK AT THE END OF EACH WORK DAY.

ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN A LOCATION AND ORIENTATION THAT WILL PERMIT INTENDED USE.

. PROVIDE STOPS AND/OR ISOLATION VALVES TO EACH INDIVIDUAL FIXTURE OR PIECE OF EQUIPMENT TO ALLOW FOR INDIVIDUAL SERVICING UNLESS NOTED OTHERWISE ON PLANS.

. SANITARY WASTE PIPING SHALL BE SLOPED AT 1/8-INCH PER FOOT MINIMUM FOR ALL PIPING 4-INCH AND LARGER AND AT 1/4-INCH PER FOOT MINIMUM FOR ALL PIPING 3-INCH AND SMALLER.

I. INDIRECT DRAIN PIPING FROM FIXTURES, SPECIALTIES, AND EQUIPMENT SHALL BE ROUTED TO FLOOR DRAIN OR OTHER APPROVED RECEPTACLES AND TERMINATED WITH AN AIR GAP 2 TIMES THE DIAMETER OF THE DRAIN PIPING BUT NOT LESS THAN A 1 INCH GAP. SUPPORT PIPING SO DRAIN PIPING CANNOT BE DEFLECTED FROM DRAIN

. WHEREVER POSSIBLE, HORIZONTAL SOIL OR WASTE PIPE SHALL COME OFF TOP OR AT 45 DEGREE VERTICALLY FROM CENTER OF PIPE BEFORE OFFSETTING HORIZONTALLY TO RISER.

ALL VENT TERMINATIONS SHALL BE COORDINATED WITH BUILDING OPENINGS, AIR INTAKES, AND AIR EXHAUST OPENINGS. ADJUST VENT THROUGH ROOF LOCATIONS TO COMPLY WITH APPLICABLE CODE.

. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ALL HANGERS AND SUPPORTS ARE ANCHORED OR ATTACHED TO BUILDING ELEMENTS ADEQUATE FOR INTENDED PLUMBING SYSTEM OR EQUIPMENT.

PLUMBING CONTRACTOR TO PROVIDE AND INSTALL NAIL PLATES WHERE PIPING PASSES THROUGH STUD(S) WITHIN 2" OF NAILING SURFACE TO PROTECT PIPE FROM NAILS OR DRYWALL SCREWS.

. PLUMBING CONTRACTOR SHALL INSTALL AIR CHAMBERS ON VERTICAL DROP TO INDIVIDUAL SINKS WITH SPRAY FEATURE. INSTALL PISTON-TYPE WATER HAMMER ARRESTORS ON HORIZONTAL PIPING PRIOR TO DROP TO ALL INDIVIDUAL FLUSH VALVE FIXTURES. PISTON- OR DIAPHRAGM-TYPE WATER HAMMER ARRESTORS MAY BE UTILIZED FOR WATER HEADERS SERVING A GROUP OF FIXTURES WITHIN THE SAME CHASE AND SHALL BE LOCATED UPSTREAM THE LAST FIXTURE SERVED ON THE HEADER. LOCATE ARRESTORS IN ACCESSIBLE LOCATION, OR PROVIDE ACCESS PANEL. SIZE ARRESTORS PER MANUFACTURER'S RECOMMENDATION FOR RELATED FIXTURE

. MINIMIZE DEVELOPED LENGTH OF BRANCH RUNOUTS FROM CIRCULATED DOMESTIC HOT WATER MAINS TO FIXTURES AND/OR MIXING VALVES WHENEVER POSSIBLE.

ALL P-TRAPS FOR FLOOR DRAINS AND FLOOR SINKS SHALL BE DEEP SEAL TRAP FILLED WITH VEGETABLE OIL.

. PLUMBING CONTRACTOR TO INSTALL AND TEST EQUIPMENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS TO ASSURE PROPER OPERATION.

. PROJECT LOCATION IS SEISMIC CATEGORY D. REFER TO SHEET S-001 FOR SEISMIC DESIGN DATA.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATED: 10.22.2024 EXPIRATION: 12.31.2025



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10/22/2024

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr. Cape Girardeau, MO 63701

PROJECT #	.: U2415.01
SITE #.:	6803
ASSET #.:	8136803002
FAI #.:	29-043
# DATE:	DESCRIPTION:

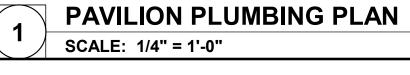
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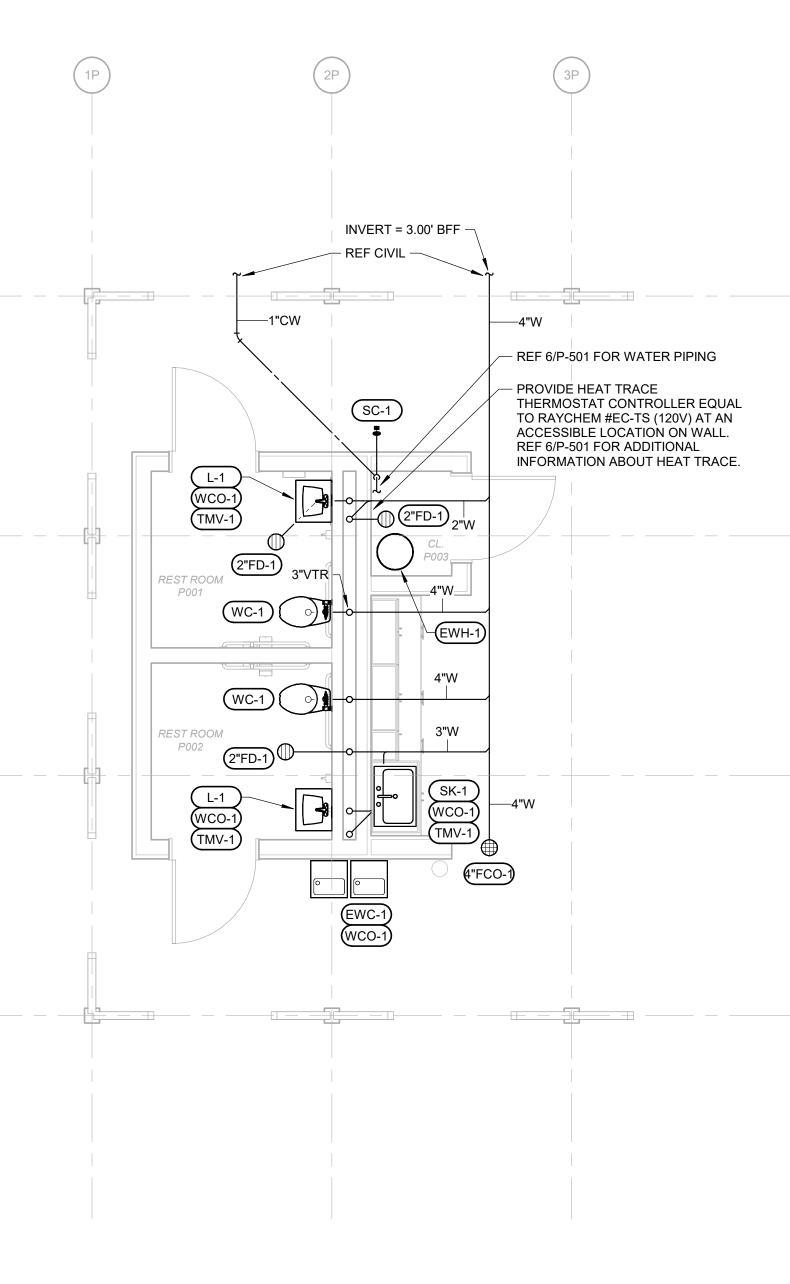
SHEET TITLE: GENERAL INFORMATION

SHEET NUMBER:



SHEET 14 OF 25 ISSUE DATE: 10/22/2024





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(BP)-

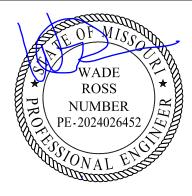
(CP)-

GENERAL NOTES

A. REFER TO THE PLUMBING RISER DIAGRAMS ON SHEET P-501 FOR ADDITIONAL PIPE ROUTING, SIZING, AND NOTES.

B. ALL SANITARY WASTE PIPING SHOWN ON THE PLUMBING PLAN IS BELOW GROUND UNLESS NOTED OTHERWISE.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATED: 10.22.2024 EXPIRATION: 12.31.2025



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2400 Veterans Memorial Dr. Cape Girardeau, MO 63701

PROJECT #.: SITE #.: ASSET#.: FAI #.: # DATE: DES

#.: U2415.01 6803 8136803002 29-043 DESCRIPTION:

DRAWN BY: RC CHECKED BY: WR DESIGNED BY: RC

SHEET TITLE:

PAVILION PLUMBING PLAN

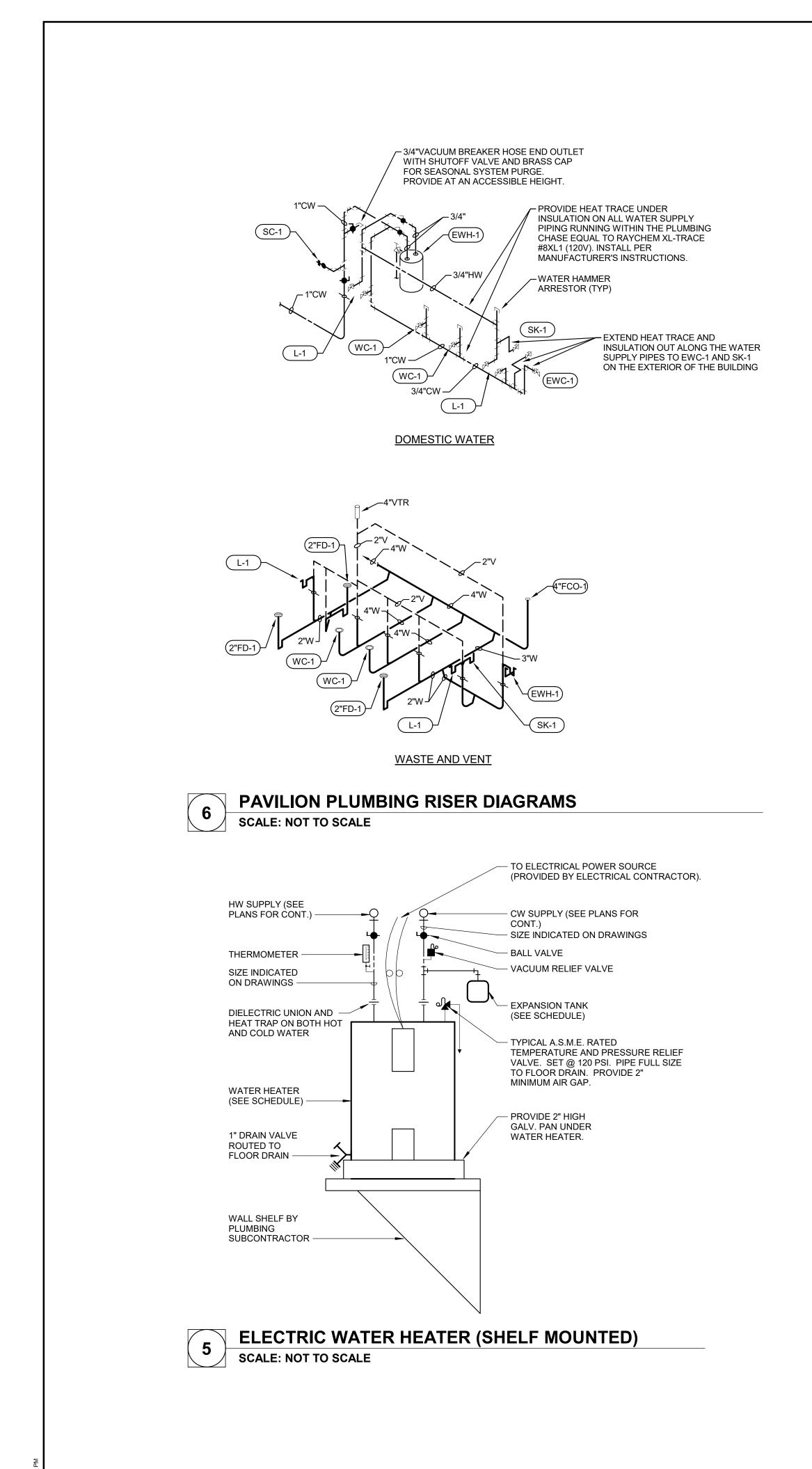
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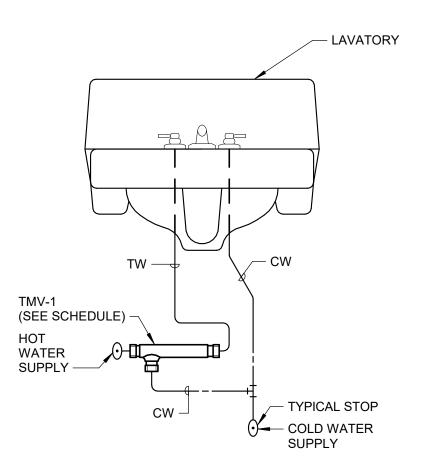


SHEET 15 OF 25 ISSUE DATE: 10/22/2024

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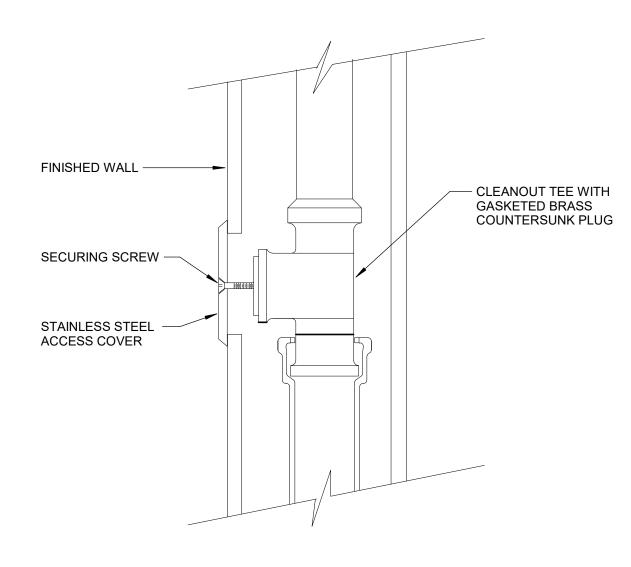
NORTH /







POINT-OF-USE MIXING VALVE SCALE: NOT TO SCALE







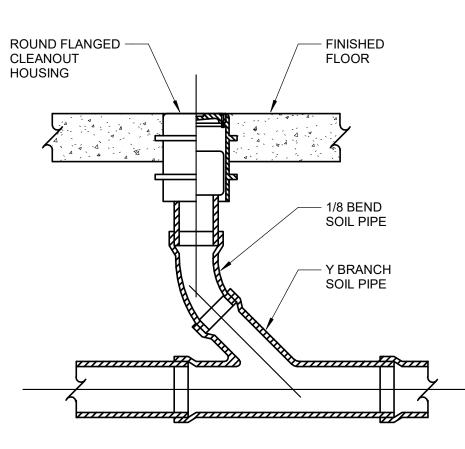
HUB JOINT

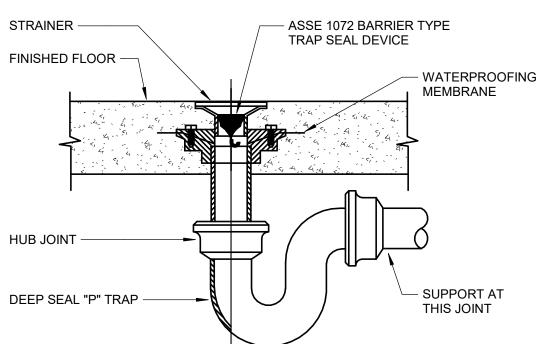
DEEP SEAL "P" TRAP -

NOTES: FLOOR SINK TRAP SEAL DEVICE INSTALLATION IS SIMILAR.
 INSTALL TRAP SEAL DEVICE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

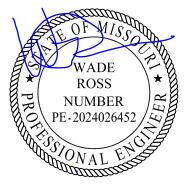


FLOOR DRAIN SCALE: NOT TO SCALE





STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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PROJECT #.: SITE #.: ASSET #.: FAI #.: # DATE:

U2415.01 6803 8136803002 29-043 DESCRIPTION:

DRAWN BY: RC CHECKED BY: WR DESIGNED BY: RC SHEET TITLE:

DIAGRAMS

SHEET NUMBER:



SHEET 16 OF 25 ISSUE DATE: 10/22/2024

	ELECTRIC WATER HEATER SCHEDULE													
PLAN				STORAGE RECOVERY	NUMBER OF		AL DATA	PHYSICAL DATA						
MARK	MANUFACTURER	MODEL	LOCATION IN GALLO	IN GALLONS		ELEMENTS	KW INPUT	V/PH	D (IN.)	W (IN.)	H (IN.)	DIA. (IN.)	OPER. WT. (LB.)	REMARKS
EWH-1	A.O. SMITH	DEL-10	CLOSET	10	12	1	3	120/1	N/A	N/A	18.25	18	137	1, 2, 3, 4
	EWH-1 A.O. SMITH DEL-10 CLOSET 10 12 1 3 120/1 N/A N/A 18.25 18 137 1, 2, 3, 4 NOTES: 1. SET TO 140 DEGREES. 2. PROVIDE WITH EXPANSION TANK EQUAL TO WATTS #DETA-5. 3. PROVIDE WITH SINGLE 3.0 KW ELEMENT. 4. REF 5/P-501. 4. REF 5/P-501.													

	THERMOSTATIC MIXING VALVE									
PLAN MARK	MANUFACTURER	MODEL	GPM	INLET	OUTLET	MOUNTING				
TMV-1	WATTS	LFMMV	0.5-6	1/2"	1/2"	INLINE	LEAE INLE ASSE (POII			
DESIGN	FLOWS BASED ON 5	PSI PRESSURE DROI	P MAXIMUN	1.			•			

NOTE: OTHER ACCEPTABLE MANUFACTURER'S SHALL BE: BRADLEY, SYMMONS, POWERS, LEONARD, WILKINS, ZURN.

		DRAIN SCH
PLAN MARK	MAKE/MODEL	DE
FD-1	ZURN #Z415B WADE J.R. SMITH	COATED CAST IRON BODY FLOOR DRAIN W MEMBRANE CLAMP AND ADJUSTABLE COLL NICKEL BRONZE STRAINER. OUTLET SIZE A TRADE TO ASSURE DRAIN IS INSTALLED CE LOWER THAN ADJACENT FLOOR LEVEL.

	CLEANOUT	SCHE	
PLAN MARK	MAKE/MODEL	LOCATION	
FCO-1	ZURN #Z1400-BZ WADE J.R. SMITH	FINSHED & CONCRETE FLOORS	ADJUSTABLE LI WATERTIGHT A DIAMETER SCC
WCO-1	ZURN #Z1468 WADE J.R. SMITH	PROVIDE ON WASTE LINE OF EWC-1, L-1, AND SK-1	ROUND STAINL SECURING SCR THREADED FEN UTILIZED WHEF

E SCHEDULE

REMARKS

AD FREE HIGH TEMP MIXING VALVE. PROVIDE WITH UNION ENDS LET CHECK VALVES, SET TO 105°F. SE1017 DINT-OF-USE, PROVIDE ON SINK AND LAVATORIES)

HEDULE

DESCRIPTION REMARKS

WITH NO-HUB BOTTOM OUTLET, COMBINATION INVERTABLE OLLAR WITH SEEPAGE SLOTS AND 6" DIAMETER POLISHED E AS INDICATED ON DRAWINGS. COORDINATE WITH GENERAL CENTERED IN MINIMUM 3 FOOT DIAMETER FLOOR SUMP AND

EDULE

E LEVELING COATED CAST IRON BODY FLOOR CLEANOUT WITH HT ABS TAPERED PLUG, NO-HUB BOTTOM OUTLET, AND 5" SCORIATED POLISHED NICKEL BRONZE TOP.

REMARKS

AINLESS STEEL WALL ACCESS COVER COMPLETE WITH SCREW AND BROZE RAISED HEX HEAD PLUG COMPATIBLE WITH FEMALE COUPLING. EXCEPTION: THREADED PVC PLUG MAY BE HERE CLEANOUT IS LOCATED ON RISER EXPOSED TO SITE.

		MINIM		DUAL LINE	SIZES	ELECT	
PLAN MARK	FIXTURE DESCRIPTION AND REMARKS	COLD WATER	HOT WATER	WASTE	VENT	V/PH	FLA
L-1 (ADA)	STANDARDJADA WALL-MOUNTED LAVATORY WITH MANUAL FAUCET. MANUFACTURERS: KOHLER #K-2032 OR APPROVED COMMERCIAL GRADE EQUIVALENT BY AMERICAN STANDARD, BRIGGS, CRANE, GERBER, MANSFIELD, TOTO, OR ZURN. DESCRIPTION: DAD COMPLIANT RECTANGULAR 20.75°W x 18.25°D WHITE VITREOUS CHINA, WALL-MOUNT LAVATORY WITH: INTEGRAL BACKSPLASH (4' HIGH MIN) AND RAISED PERIMETER; (3) 1.25°DLA. FAUCET HOLE DECK PUNCHINGS 2'O NC ENTERS, AND CENTERED ON FIXTURE; 1.75° BOTTOM DRAIN HOLE; AND DRILLINGS FOR CONCEALED ARM CARRIER (SEE BELOW). MOUNT AT STANDARD, OR ADA COMPLIANT HEIGHT AS INDICATED ON PLANS. REFERENCE ARCHITECTURAL PLANS AND ELEVATIONS FOR DIMENSIONS. CARRIER: ASME A112.6.1M TYPE-II, CONCEALED ARM LAVATORY CARRIER WITH RECTANGULAR STEEL UPRIGHTS. MANUFACTURERS: CHICAGO FAUCET WITH WRISTBLADE HANDLES. MANUFACTURERS: CHICAGO FAUCET WITH WRISTBLADE HANDLES. MANUFACTURERS: CHICAGO FAUCETS #895-317ABCP (0:5 GPM) OR APPROVED EQUIVALENT BY GROEHE, TAS BRASS, OR ZURN. DESCRIPTION: CENTERSET COMMERCIAL BRASS BODY; CHROME PLATED; PROVIDE WITH 0:5 GPM NON-AERATING SPROY. COMPRESSION MANUFACTURERS: CHICAGO FAUCETS WITH WRISTBLADE HANDLES. DECK/EXPOSED MOUNTING: 44INCH INDEXED VANDAL-PROOF WRISTBLADE HANDLES; 0:52°H GOOSENECK/SWING SPOUT; COMPRESSION MANUAL OPERATION WITH CERAMIC CARTRIDGES. INCLUDE HOT AND COLD INDICATOR; COORDINATE FAUCET INLETS WITH SUPPLIES AND FIXTURE HOLE PUNCHINGS; COORDINATE OUTLET WITH SPOUT AND FIXTURE RECEPTOR. SUPPLY FITTINGS: CHROME PLATED SOFT COPPER TUBE, OR CORRUGATED STAINLESS STEEL; CHROME PLATED BRASS ESCUTCHEON; FLEXIBLE RISERS WITH COMPRESSION INLET AND OUTLET COMPONENTS COMPATIBLE WITH FAUCET AND STOPS, AND POINT-0F-USE TMV-1. COMMERCIAL GRADE CHROME PLATED BRASS QUARTER TURN BALL-TYPE, OR CORRUGATED STAINLESS STEEL; CHROME PLATED BRASS ESCUTCHEON; FLEXIBLE RISERS WITH COMPRESSION INLET AND OUTLET COMPONENTS COMPATIBLE WITH FAUCET AND STOPS, AND POINT-0F-USE TMV-1. COMMERCIAL GRADE CHROME PLATED BRASS QUARTER TURN BALL-TYPE, OR CORPRESSION ANGLE VALVE STOPS WITH INLET MATCHING SUPPLY PIPING AND LOOSE K	1/2"	1/2"	1 1/4"	1 1/2"		
SK-1 (ADA)	ADA SINGLE BOWL STAINLESS STEEL DROP-IN SINK. MANUFACTURERS: ELKAY #LRAD3122 OR APPROVED COMMERCIAL GRADE EQUIVALENT BY AMERICAN STANDARD, JUST, OR KOHLER. FIXTURE: SINGLE BOWL 31" x 22" x 5-12" 18-GAUGE 304 STAINLESS STEEL DROP-IN SINK WITH: STAINESS SATIN FINISH; SINGLE REAR CENTER 3.375" DRAIN; DECK HOLES FOR CENTER SET FAUCET AND RIGHT SIDE SPRAY 4 INCHES ON CENTERS; AND BOTTOM SOUND PADS. MANUFACTURERS: CHICAGO FAUCETS #200-AGNABAE3-317AB OR APPROVED EQUIVALENT BY ADVANCE TABCO, T&S BRASS, OR ZURN. DESCRIPTION: CENTERSET, FIXED COMMERCIAL BRASS BODY (CONCEALED UNDER DECK); CHROME PLATED; 13.125"H x 8" (7.4" OUTLET TO DECK) GOOSENECK/SWING SPOUT WITH 2.2 GPM AERATOR; COMPRESSION MANUAL OPERATION WITH CERAMIC CARTRIDGES, DECK/EYPOSED MOUNTING 4-INCH WRISTBLADE HANDLES INCLUDING HOT AND COLD INDICATORS; SIDE SPRAY. COORDINATE 1/2" NPSM FAUCET INLETS WITH SUPPLIES AND FIXTURE HOLE PUNCHINGS; COORDINATE OUTLET WITH SPOUT AND FIXTURE RECEPTOR. SUPPLY FITTINGS: CHROME PLATED SOFT COPPER TUBE, OR BRAIDED STAINLESS STEEL FLEXIBLE RISERS WITH COMPRESSION INLET AND OUTLET COMPONENTS COMPATIBLE WITH FAUCET AND STOPS, AND POINT-OF-USE TWV-1. COMMERCIAL GRADE CHROME PLATED BRASS QUARTER TURN BALL-TYPE, OR COMPRESSION ANGLE VALVE STOPS WITH INLET MATCHING SUPPLY PIPING AND LOOSE KEY HANDLES. SUPPLY STOPS FOR SINK AND ONE EXTRA STOP COMPATIBLE WITH DISH MACHINE WHERE APPLICABLE. WASTE FITTINGS: 3.5" CHROME PLATED DRAIN AND CHRUMB CUP ASSEMBLY, ASME 112.15.2 STANDARD; GRID DRAIN WITH 1.5" OFFSET TAILPIECE 1.5" CHROME PLATED DRAIN AND CHRUMB CUP ASSEMBLY, ASME 112.0000 RIAIN WITH 1.5" X 1.25" TRAP ADAPTOR ROUGH-IN WITH CHROME PLATED BRASS WALL FLANGE.	1/2"	1/2"	1 1/2"	1 1/2"		
WC-1 (ADA)	ADA COMPLIANT FLOOR-MOUNTED, BOTTOM OUTLET, GRAVITY TANK TYPE WATER CLOSET. MANUFACTURERS: KOHLER #K-3979 OR APPROVED COMMERCIAL GRADE EQUIVALENT BY AMERICAN STANDARD, BRIGGS, CRANE, GERBER, MANSFIELD, TOTO, OR ZURN. NOTE: REVIEW PLANS AND COORDINATE MODEL AT EACH LOCATION TO ASSURE TRIP LEVER IS TO WIDE SIDE OF STALL. FIXTURE: FLOOR MOUNTED, VITREOUS CHINA BOWL, TANK AND LID, SIPHON JET, CLOSE-COUPLED GRAVITY TANK TYPE, LEFT SIDE TRIP LEVER (FOR MODEL INDICATED) 17" MINIMUM FLOOR TO RIM ADA COMPLIANT HEIGHT, ELONGATED, 1.6 GPF, WHITE COLOR, AND BOTTOM OUTLET (12" ROUGH-IN). INCLUDE ANSI Z124.5 ANTI-MICROBIAL COMMERCIAL ELONGATED WHITE TOILET SEAT WITHOUT COVER HAVING OPEN FRONT, SELF-SUSTAINING CHECK HINGE. SUPPLY FITTINGS: COMMERCIAL GRADE CHROME PLATED BRASS, QUARTER-TURN COMPRESSION STOP WITH WHEEL HANDLE AND INLET CONNECTION MATCHING WATER SUPPLY PIPING TYPE AND SIZE. 3/8", OR 1/2" BRAIDED STAINLESS STEEL FLEXIBLE HOSE CLOSET RISER.	1/2"	N/A	4"	2"		
EWC-1 (ADA)	ELECTRIC WATER COOLER - TWO STATION, BI-LEVEL, ADA COMPLIANT. DESCRIPTION: SELF-CONTAINED, DOUBLE WALL HUNG ELECTRIC REFRIGERATED, ADA COMPLIANT WATER COOLER HAVING: STAINLESS STEEL CONSTRUCTION TO WITHSTAND ABUSIVE ENVIRONMENTS; TAMPER RESISTANT, VANDAL-RESISTANT FASTENERS; VANDAL-RESISTANT BUBBLERS WITH CHROME PLATED INTEGRAL HOOD GUARD; GALVANIZED STRUCTURAL STEEL FRAME; 300 SERIES POLISHED STAINLESS STEEL TOP; CABINET/ENCLOSURE FOR FLUSH TO WALL MOUNTING AND BOTTOM COVER PLATE; AND WITHOUT FILTER. INCLUDE STAINLESS STEEL BOTTOM CANE APRON ACCESSORY FOR ALL EXTERIOR LOCATIONS. CAPACITY EQUAL TO 7.8. GPH OF 50°F WATER AT 90°F AMBIENT TEMPERATURE. COMPRESSOR: HERMETICALLY SEALED. MOTOR: THERMAL OVERLOAD PROTECTED ACCEPTABLE MANUFACTURERS: ELKAY #VRCTL8SC, HALSEY-TAYLOR, HAWS. ELECTRIC WATER COOLER TRIM: PROVIDE STAINLESS STEEL PERFORATED STRAINER WITH CONCEALED WASTE. ANGLE STOPS BY BRASSCRAFT OR McGUIRE, 17 GAUGE 1 1/4" O.D. TAILPIECE, 17 GAUGE 1 1/4" P-TRAP BY BRASSCRAFT, McGUIRE, DEARBORN. INSTALL DRINKING FOUNTAIN PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE WALL SUPPORT/BRACKET COMPATIBLE WITH APPROVED COOLER AND ASSOCIATED WALL MATERIALS.	1/2"	N/A	1 1/4"	1 1/2"	120V	6
SC-1	SILLCOCK - NON-FREEZE KEY OPERATED WITH 1 5/8 INCH BRASS CASTINGS, BRASS OPERATING MECHANISM, ADJUSTABLE LOCK NUT, REMOVABLE NYLON SEAT, NICKEL BRASS DEEP BOX WITH KEY HANDLE, INTEGRAL ANTI-SIPHON, NON-FREEZE VACUUM BREAKER AND WALL CLAMP. ACCEPTABLE MANUFACTURERS: WOODFORD #B67, WADE, JOSAM, ZURN. LENGTH OF WALL CLAMP AS REQUIRED BY WALL CONSTRUCTION AND ALL OTHER MOUNTING AS REQUIRED BY MANUFACTURER.	3/4"	N/A	N/A	N/A		

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATED: 10.22.2024 EXPIRATION: 12.31.2025



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MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU **VETERANS HOME**

2400 Veterans Memorial Dr. Cape Girardeau, MO 63701

PROJECT #	.: U
SITE #.:	6
ASSET #.:	8
FAI #.:	2
# DATE:	DESCR

U2415.01 5803 8136803002 29-043 RIPTION:

DRAWN BY: RC CHECKED BY: WR DESIGNED BY: RC

SHEET TITLE: SCHEDULES

SHEET NUMBER:



SHEET 17 OF 25 ISSUE DATE: 10/22/2024

	OLS LEGEND		те	ABB	REVIATIONS
	ALL UTWIDULD ARE USED IN CONSTRUC			AC	ABOVE CEILING/AIR CONDITIONER
IYDRON	NIC	VENTI	LATION	ACC	AIR COOLED CONDENSER
•	3-WAY CONTROL VALVE		THERMOSTAT	AF	AIR FILTER
	ANGLE GATE VALVE	AHU-1-	-EQUIPMENT TO BE CONTROLLED -LOCKABLE GUARD WHERE INDICATED	AFF	ABOVE FINISHED FLOOR
	ANGLE GLOBE VALVE	GUARD	-LOCKABLE GUARD WHERE INDICATED	AHU	AIR HANDLING UNIT
	BALANCING/SHUTOFF VALVE	TEMP ¬	SENSOR	AL	ALUMINUM
		S CO	-ELEMENT TO BE MONITORED	AMS	AIR MEASURING STATION
Ţ		CO2 —		AS	AIR SEPARATOR
		GUARD-	-LOCKABLE GUARD WHERE INDICATED	AV	AUTOMATIC AIR VENT
		\oplus	HUMIDISTAT	В	BOILER
\ ●		\$	WALL SWITCH	BAS	BUILDING AUTOMATION SYSTEM
		CFM	TRANSFER AIR	BDD	BACKDRAFT DAMPER
_ ₩	EXPANSION VALVE	⊢−−−− 4		BFC	BELOW FINISHED CEILING
	GAS COCK	ל 12x8 ל	RECTANGULAR DUCT	BFP	BACKFLOW PREVENTION DEVICE
→ ₩	GATE VALVE	I		BJ	BETWEEN JOISTS
		 	ROUND DUCT	BOD	BOTTOM OF DUCT
→		⊢ −−−−−4		BOP	BOTTOM OF PIPE
— ⊙ —	PRESSURE REDUCING VALVE (WATER)	² 12x8Φ ²	FLAT OVAL DUCT	BTUH	BRITISH THERMAL UNITS PER HO
	PRESSURE REGULATOR (GAS)			CA	COMPRESSED AIR
		\bowtie	SUPPLY DIFFUSER/REGISTER	CBS	COUNTER BALANCED SHUTTER
م ار	SAFETY RELIEF VALVE			СС	COOLING COIL
	SOLENOID VALVE		RETURN REGISTER/GRILLE	CF	CEILING / CIRCULATING FAN
``	VACUUM RELIEF VALVE			CFM	CUBIC FEET PER MINUTE
	AUTOMATIC AIR VENT		EXHAUST REGISTER/GRILLE	СН	CHILLER
-•	MANUAL AIR VENT			CHP	CHILLED WATER PUMP
■ (F)	FLOW SENSOR/SWITCH		DIFFUSER AIRFLOW PATTERN IF OTHER THAN 4-WAY BLOW	CHR	CHILLED WATER RETURN
₽₽	PRESSURE SENSOR/SWITCH	_		CHS	CHILLED WATER SUPPLY
■ -(T)	TEMPERATURE SENSOR/SWITCH		FLEXIBLE BRANCH RUNOUT TO SUPPLY DIFFUSER, 36" MAX LENGTH	CNV	CONVECTOR
\neg	PRESSURE GAUGE		CEILING RETURN REGISTER WITH LINED	COND	CONDENSATE
- <u>t</u>	THERMOMETER		DUCT FOR SOUND ATTENUATION OPEN TO CEILING PLENUM	CP	CONDENSATE PUMP
	PIPE SLOPE ARROW			CRAC	COMPUTER ROOM AIR CONDITIO
—X —	PIPE ANCHOR		FLEXIBLE DUCT CONNECTION TO EQUIPMENT OR BETWEEN DUCTS	CT	COOLING TOWER
—	PIPE GUIDES			CU	CONDENSING UNIT
	PIPE EXPANSION JOINT		VOLUME DAMPER	СОН	CABINET UNIT HEATER
-	FLEXIBLE PIPE CONNECTOR			CV	CONTROL VALVE
— ——-	PIPE UNION		MOTORIZED DAMPER		DOMESTIC COLD WATER
—	CONCENTRIC REDUCER			CW	
	ECCENTRIC REDUCER		FIRE DAMPER	CWP	CONDENSER WATER PUMP
	WYE STRAINER			CWR	CONDENSER WATER RETURN
	WYE STRAINER W/DRAIN VALVE	↓ ¶ ↓	SMOKE DAMPER	CWS	CONDENSER WATER SUPPLY
J.				DAC	
	DIRECTION OF FLOW		COMBINATION FIRE/SMOKE DAMPER	DC	DRY COOLER
	STEAM BUCKET TRAP			DH	DEHUMIDIFIER
	STEAM F&T TRAP		SUPPLY AIR DUCT TOWARDS	DN	
	BACKFLOW PREVENTER		SUPPLY AIR DUCT AWAY	DOAS	DEDICATED OUTDOOR AIR SYSTE
	PRESSURE/TEMPERATURE PLUG		RETURN/OUTDOOR AIR DUCT TOWARDS	DP	
	PUMP		RETURN/OUTDOOR AIR DUCT AWAY	DS	
M	METER		EXHAUST AIR DUCT TOWARDS	DSU	DUCTLESS SPLIT UNIT
o	PIPE TURNING UP		EXHAUST AIR DUCT AWAY	DX	DX COOLING COIL
	PIPE TURNING DOWN			EA	
	TEE OFF TOP			EBB	ELECTRIC BASEBOARD HEATER
	TEE OFF BOTTOM	GENE	RAL	EC	ELECTRICAL CONTRACTOR
	PIPE TEE		ECHANICAL EQUIPMENT TAG	EF	EXHAUST FAN
	PIPE CAP	\frown	QUIPMENT TYPE	EG	EXHAUST GRILLE (LESS DAMPER)
ſ	PLAN 90 DEGREE ELBOW	\leftarrow	QUIPMENT MARK	EHC	ELECTRIC HEATING COIL
। _₊∕<	PLAN 45 DEGREE ELBOW		R TERMINAL DESIGNATION	EL	ELEVATION
- F ·		/s1 12x12-Th	HROAT SIZE	ER	EXHAUST REGISTER
<u> + </u>	PIPING SYSTEM (SOLID LINE)	\ <u> '</u> ∕ <u>250 </u>	RFLOW IN CFM	ERP	ELECTRIC RADIANT PANEL
	BD BOILER BLOW DOWN		ETAIL OR SECTION MARK	ERV	ENERGY RECOVERY VENTILATOR
	CD CONDENSATE DRAIN	()) () () () () () () () () (ETAIL #	ESP	EXTERNAL STATIC PRESSURE
	CHS CHILLED WATER SUPPLY CWS CONDENSER WATER SUPPLY	# SI	HEET #	ET	EXPANSION TANK
	HCWS DUAL TEMPERATURE SUPPLY	(#) КІ	EYNOTE	EUH	ELECTRIC UNIT HEATER
	HPS HIGH PRESSURE STEAM	\bigcirc		FA	FRESH AIR
	HRS HEAT RECOVERY SUPPLY	PC	DINT OF NEW CONNECTION	FCU	FAN COIL UNIT
	HTWS HIGH TEMP WATER SUPPLY HWS HOT WATER SUPPLY		AP EXISTING PIPE OR DUCT	FD	FIRE DAMPER
	LPS LOW PRESSURE STEAM	NEW BO	OLD TEXT INDICATES PROPOSED ITEM	FDC	FLEXIBLE DUCT CONNECTION
	LS LOOP SUPPLY MPS MEDIUM PRESSURE STEAM	EXISTING IT	ALIC TEXT INDICATES EXISTING ITEM	FFA	FROM FLOOR ABOVE
	PD PUMP DISCHARGE	LI	NE STYLE INDICATES DEMOLISHED ITEM	FFB	FROM FLOOR BELOW
	RHG REFRIGERANT HOT GAS			FPC	FLEXIBLE PIPE CONNECTION
	RL REFRIGERANT LIQUID RS REFRIGERANT SUCTION			FPT	FAN POWERED AIR TERMINAL
		_,		FT	FINNED TUBE RADIATION
+	PIPING SYSTEM (DASHED LINE	<u>)</u>		GC	GENERAL CONTRACTOR
	CHR CHILLED WATER RETURN			GF	GAS FURNACE
	CWR CONDENSER WATER RETURN			GIH	GRAVITY INTAKE HOOD
	HCWR DUAL TEMPERATURE RETURN HPR HIGH PRESSURE STEAM CONDE	NSATE RETURN		GPM	GALLONS PER MINUTE
	HRR HEAT RECOVERY RETURN			GR	GLYCOL RETURN
				JI	
	HTWR HIGH TEMP WATER RETURN				
	HWR HOT WATER RETURN				
	HWR HOT WATER RETURN LPR LOW PRESSURE STEAM CONDEI	NSATE RETURN			
	HWR HOT WATER RETURN		RN		
	HWRHOT WATER RETURNLPRLOW PRESSURE STEAM CONDERLRLOOP RETURN		RN		
	HWRHOT WATER RETURNLPRLOW PRESSURE STEAM CONDERLRLOOP RETURN		RN		
	HWRHOT WATER RETURNLPRLOW PRESSURE STEAM CONDERLRLOOP RETURN		RN		

GRH	GAS RADIANT HEATER
GS	GLYCOL SUPPLY
GUH	GAS UNIT HEATER
HU HC	HUMIDIFIER HEATING COIL
	DUAL TEMPERATURE RETURN
HCWS	DUAL TEMPERATURE SUPPLY
HP	HEAT PUMP
HPR	HIGH PRESSURE STEAM RETURN
HPS HRC	HIGH PRESSURE STEAM SUPPLY HEAT RECOVERY COIL
HRV	HEAT RECOVERY VENTILATOR (SENSIBLE)
HS	HUMIDITY SENSOR
HWP	HOT WATER PUMP
HWR HWS	HOT WATER RETURN HOT WATER SUPPLY
HX	HEAT EXCHANGER
ISP	INTERNAL STATIC PRESSURE
KH	KITCHEN HOOD - COMMERCIAL
L	LOUVER
LPR LPS	LOW PRESSURE STEAM RETURN
MA	MIXED AIR
MAU	MAKEUP AIR UNIT
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MD	
MS NTS	MOTORIZED SHUTTER NOT TO SCALE
OA	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
Ρ	PUMP
PC	PLUMBING CONTRACTOR
PBD PDH	PARALLEL BLADE DAMPER POOL ROOM DEHUMIDIFIER
PRV	PRESSURE RELIEF VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA RF	RETURN AIR RETURN AIR FAN
RG	RETURN GRILLE (LESS DAMPER)
RH	ROOF HOOD
RHC	REHEAT COIL
RLFA RP	RELIEF AIR RADIANT PANEL
RPZ	REDUCED PRESSURE BFP
RR	RETURN REGISTER (WITH DAMPER)
RTU	ROOFTOP AIR HANDLING UNIT
SA	SUPPLY AIR
SAS SD	SELF-ACTING SHUTTER SUPPLY DIFFUSER/SMOKE DAMPER
SF	SUPPLY FAN / SQUARE FOOT
SFD	SMOKE/FIRE DAMPER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
TCAC TCAD	TEMP. CONTROL AIR COMPRESSOR
TDV	TRIPLE DUTY VALVE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
ΤJ	THROUGH JOISTS
TOD TOP	TOP OF DUCT TOP OF PIPE
TSP	TOP OF PIPE
UC	UNIT COOLER
UFD	UNDERFLOOR DUCT
UFT	UNDERFLOOR FAN TERMINAL
UH	
UV VAV	UNIT VENTILATOR VARIABLE AIR VOLUME TERMINAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRP	VERTICAL RADIANT PANEL
WAC	WINDOW / WALL AIR CONDITIONER

GENERAL NOTES

COMMON REQUIREMENTS

- A. THIS FACILITY HAS BEEN DESIGNATED A "SMOKE-FREE" ENVIRONMENT. NO MECHANICAL VENTILATION PROVISIONS HAVE BEEN MADE TO ACCOMMODATE TOBACCO USAGE BY THE BUILDING OCCUPANTS
- B. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE LOCAL CODE AUTHORITIES HAVING JURISDICTION
- C. EVERY ATTEMPT HAS BEEN MADE TO COORDINATE THE ROUTING OF DUCTWORK WITHIN THE WOOD TRUSSED ATTIC SPACE. ACTUAL LOCATION OF TRUSS WEBS HOWEVER CAN NOT BE DETERMINED UNTIL FABRICATION DRAWINGS ARE SUBMITTED FOR REVIEW. WHERE POSSIBLE, REFRAIN FROM PREFABRICATING DUCTWORK DESIGNATED FOR INSTALLATION WITHIN THE ATTIC UNTIL ROOF FRAMING IS IN PLACE AND ACTUAL STRUCTURAL CONDITIONS CAN BE FIELD VERIFIED.

MECHANICAL EQUIPMENT INSTALLATION

- A. INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE INDICATED
- B. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE INDICATED
- C. INSTALL HVAC EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS, CONNECT EQUIPMENT FOR EASE OF REMOVAL, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS
- D. ALL MECHANICAL EQUIPMENT WITH THE EXCEPTION OF AIR HANDLING UNITS, SUPPORTED FROM FLOOR STRUCTURE SHALL BE MOUNTED ON 4" THICK CONCRETE HOUSEKEEPING PADS UNLESS NOTED OTHERWISE. AIR-HANDLING UNITS SHALL BE MOUNTED ON 6" THICK CONCRETE HOUSEKEEPING PADS TO ACCOMMODATE PROPER TRAPPING OF THE CONDENSATE DRAIN
- E. AIR FILTERS SHALL BE REPLACED IN ALL AIR HANDLING EQUIPMENT EMPLOYING SUCH PRIOR TO FINAL COMPLETION AND OWNER OCCUPANCY
- F. THE INSTALLING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ALL MECHANICAL EQUIPMENT PUT INTO OPERATION PRIOR TO THE INSTALLATION OF A WORKING CONTROL SYSTEM, TESTING, AND BALANCING, AND SUBSTANTIAL COMPLETION. ALL RETURN AND EXHAUST DUCT OPENINGS SHALL BE COVERED WITH ROLL TYPE FILTER MEDIA DURING SUCH TEMPORARY OPERATION. OPERATION OF THE MECHANICAL EQUIPMENT PRIOR TO FINAL COMPLETION SHALL NOT IMPACT THE EQUIPMENT WARRANTY. MINIMUM 1-YEAR FROM SUBSTANTIAL COMPLETION UNLESS SPECIFIED OTHERWISE
- G. PROVIDE FLEXIBLE DUCT CONNECTION BETWEEN MOTOR DRIVEN MECHANICAL UNITS AND SHEET METAL SUPPLY, OUTDOOR AIR, EXHAUST, AND/OR RETURN AIR DUCTWORK CONNECTIONS
- H. PROVIDE FLEXIBLE PIPE CONNECTION BETWEEN MOTOR DRIVEN MECHANICAL UNITS AND CONNECTING PIPING
- I. BASIS OF DESIGN MECHANICAL EQUIPMENT IS AS SCHEDULED ON THE DRAWINGS. INSTALLING CONTRACTOR ASSUMES RESPONSIBILITY FOR COORDINATING PHYSICAL SPACE REQUIREMENTS OF EQUIVALENT CAPACITY MECHANICAL EQUIPMENT DEEMED ACCEPTABLE BY THE ENGINEER
- J. MECHANICAL EQUIPMENT FACTORY FINISH DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION PRIOR TO FINAL ACCEPTANCE

DUCTWORK REQUIREMENTS

- A. DUCTWORK IS SHOWN IN SCHEMATIC FORM. ALL REQUIRED DUCT RISERS AND DROPS TO ALLOW GENERAL ROUTING DEPICTED MAY NOT BE SHOWN. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES AND FIELD CONDITIONS. EXACT LOCATION OF THE DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE SHALL BE TOTALLY RESPONSIBLE FOR COORDINATION WITH OTHER TRADES. NOTIFY ENGINEER OF CONDITIONS REPRESENTING SIGNIFICANT CHANGES TO THE DESIGNED ROUTING
- B. COMPLY WITH NFPA 90A, "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS," UNLESS OTHERWISE INDICATED
- C. COMPLY WITH NFPA 90B, "INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS," UNLESS OTHERWISE INDICATED
- D. FABRICATE RECTANGULAR DUCTS, ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER CONSTRUCTION WITH GALVANIZED. SHEET STEEL, ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE." COMPLY WITH REQUIREMENTS FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS
- E. COORDINATE SIZE, QUANTITY, AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCT AND PIPE PENETRATIONS THROUGH WALLS, FLOORS, AND ROOFS, WITH CONTRACTOR RESPONSIBLE FOR ROUGH FRAMING. COORDINATE LOCATION OF AIR INTAKES WITH EXHAUST AND PLUMBING VENTS SO THAT INTAKES ARE A MINIMUM OF 10 FEET FROM EXHAUST OPENINGS OR PLUMBING VENTS
- F. INSTALL DUCTS IN LONGEST LENGTH POSSIBLE AND FEWEST POSSIBLE JOINTS. INSTALL FABRICATED FITTINGS FOR CHANGES IN DIRECTIONS, CHANGES IN SIZE AND SHAPE, AND CONNECTIONS
- G. INSTALL DUCTS, UNLESS OTHERWISE INDICATED, VERTICALLY AND HORIZONTALLY, PARALLEL AND PERPENDICULAR TO BUILDING LINES; AVOID DIAGONAL RUNS UNLESS SPECIFICALLY INDICATED ON DRAWINGS
- H. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED DEVICES. COORDINATE MECHANICAL CEILING DEVICES SUCH AS DIFFUSERS AND REGISTERS WITH LIGHT FIXTURES, SPEAKERS, SPRINKLER HEADS, ETC.
- I. ELECTRICAL EQUIPMENT SPACES: ROUTE DUCTWORK TO AVOID PASSING THROUGH TRANSFORMER VAULTS AND ELECTRICAL EQUIPMENT SPACES AND ENCLOSURES. AVOID ROUTING DUCTWORK DIRECTLY ABOVE ELECTRICAL EQUIPMENT UNLESS SPECIFICALLY INDICATED ON THE MECHANICAL DRAWINGS
- J. NON-FIRE-RATED PARTITION PENETRATIONS: WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS AND ARE EXPOSED TO VIEW IN MECHANICAL ROOMS, CONCEAL SPACE BETWEEN CONSTRUCTION OPENING AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME METAL THICKNESS AS DUCT. OVERLAP OPENING ON FOUR SIDES BY AT LEAST 1-1/2 INCHES UNLESS INDICATED OTHERWISE
- K. FIRE-RATED PARTITION PENETRATIONS: WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS, INSTALL APPROPRIATELY RATED FIRE DAMPER. FIRE DAMPER INSTALLATION MUST STRICTLY ADHERE TO MANUFACTURER'S WRITTEN INSTRUCTIONS
- L. PROVIDE MANUAL VOLUME-CONTROL BALANCING DAMPER AT ALL BRANCH DUCTS AND AT ALL OTHER LOCATIONS REQUIRED FOR A COMPLETE AND BALANCEABLE AIR DISTRIBUTION SYSTEM
- M. BALANCE ENTIRE AIR DISTRIBUTION SYSTEM TO AIRFLOW QUANTITIES INDICATED ON MECHANICAL DRAWINGS
- N. FLEXIBLE DUCTWORK SHALL BE ALLOWED ONLY IN POSITIVE PRESSURE APPLICATIONS AT SUPPLY BRANCH RUNOUTS TO DIFFUSERS ABOVE ACCESSIBLE CEILINGS. FLEXIBLE DUCTWORK SHALL NOT EXCEED 36" IN LENGTH. 90 DEGREE TURNS SHALL ONLY BE ALLOWED IF RETAINING BANDS EQUAL TO THERMAFLEX "FLEX-FLOW" ARE EMPLOYED. UNDER NO CIRCUMSTANCES SHALL FLEXIBLE DUCTWORK BE ALLOWED IN NEGATIVE PRESSURE APPLICATIONS

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATED: 10.22.2024 EXPIRATION: 12.31.2025



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10/22/2024

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT. DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr. Cape Giradeau, MO 63701

PROJECT #.: SITE #.: ASSET #.: FAI #.:

U2415.01 6803 8136803002 29-043

DATE: DESCRIPTION:

DRAWN BY: SHR CHECKED BY: WCR DESIGNED BY: SHR/AK

GENERAL INFORMATION

SHEET TITLE:

SHEET NUMBER:



SHEET 18 OF 25 ISSUE DATE: 10/22/2024

DESIGN CONDITIONS

HVAC DESIGN LOAD CALCULATIONS ARE BASED ON THE FOLLOWING CLIMATE DATA:

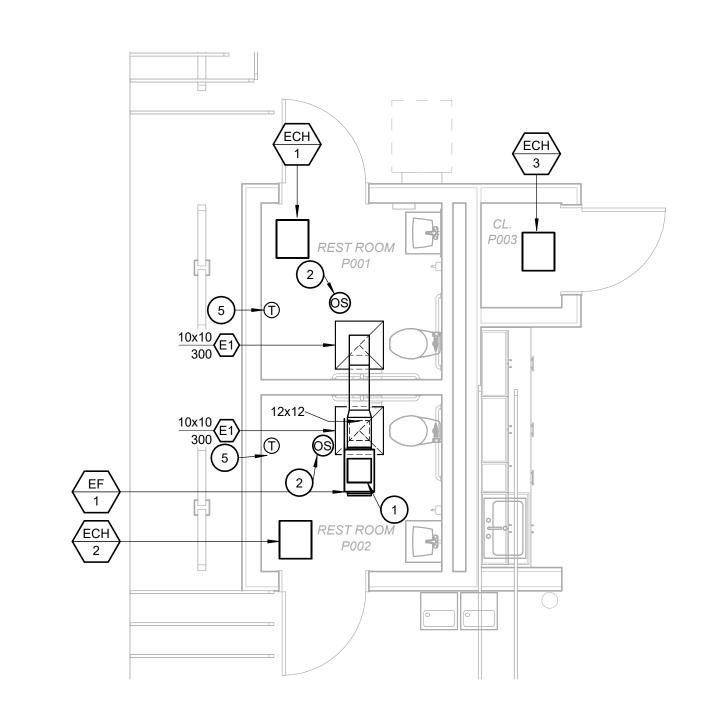
CITY AND STATE: CAPE GIRARDEAU, MISSOURI

WINTER OUTDOOR AMBIENT DB: 7.4

SUMMER OUTDOOR AMBIENT DB/WB: 94.4/77

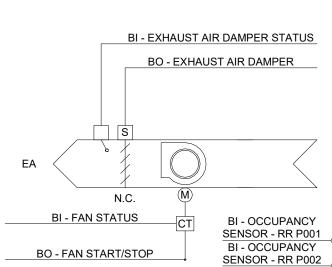
MECHANICAL SYSTEMS HAVE BEEN DESIGNED BASED UPON THE 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL ENERGY CONSERVATION CODE, NATIONAL FIRE PROTECTION (NFPA) STANDARDS, AND AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS (ASHRAE) ACCEPTED STANDARDS AND PRACTICES

MARK	r
EF1	
NOTES:	1. 2. 3. 4.



FIRST FLOOR MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



SENSOR - RR P002 AI - TEMPERATURE SENSOR - RR P001 AI - TEMPERATURE $\frac{\text{SENSOR} - \text{RR P002}}{\text{SENSOR}} \langle \overline{S} \rangle$ SEQUENCE OF OPERATION - EXHAUST FAN (TYPICAL OF 1)

RUN CONDITIONS: 1. THE UNIT SHALL BE ENABLED ACCORDING TO A USER DEFINABLE TIME SCHEDULE AND: A. SPACE TEMPERATURE IN EITHER P001 OR P002 IS AT OR ABOVE 90 DEG. F (ADJ.) OR.

B. P001 OR P002 STATUS IS OCCUPIED AS SENSED BY THE LOCAL OCCUPANCY SENSOR.

2. BUILDING AUTOMATION SYSTEM SHALL DISABLE THE OPERATION OF THE FAN WHEN: A. NEITHER OF P001 AND P002 ARE OCCUPIED B. SPACE TEMPERATURE IS AT OR BELOW 90 DEG. F. (ADJ.).

SPACES TEMPERATURE: BUILDING AUTOMATION SYSTEM SHALL MONITOR THE SPACE TEMPERATURES IN P001 AND P002.

FAN: THE FAN SHALL RUN ANYTIME THE ZONE TEMPERATURE RISES ABOVE COOLING SETPOINT, UNLESS SHUTDOWN ON SAFETIES.

EXHAUST AIR DAMPER: THE EXHAUST AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

FAN STATUS:

THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. • FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. •

FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT • (ADJ.).

	НА	RDWAR	RE POII	NTS		SC	OFTWAR	RE POIN	ITS		
POINT NAME	AI	AO	BI	во	AV	BV	Loop	Sched	Trend	Alarm	Show or
Occupancy Sensor - P001			x						x		
Occupancy Sensor - P002			x						x		
Temperature Sensor - P001	x								x		
Temperature Sensor - P002	x								x		
Fan Status			x						x		
Fan Start/Stop				x					x		
Schedule								x			
Fan Failure										x	
Fan in Hand										x	
Fan Runtime Exceeded										x	
POINTS INDICATED ABOVE A COMPLY WITH THE DESIGN I			NTS RE	QUIRED		RACTOR	SHALL	PROVID	E ADDIT	IONAL P	OINTS AS N

EXHAUST FAN - CONTROLS SCALE: No Scale

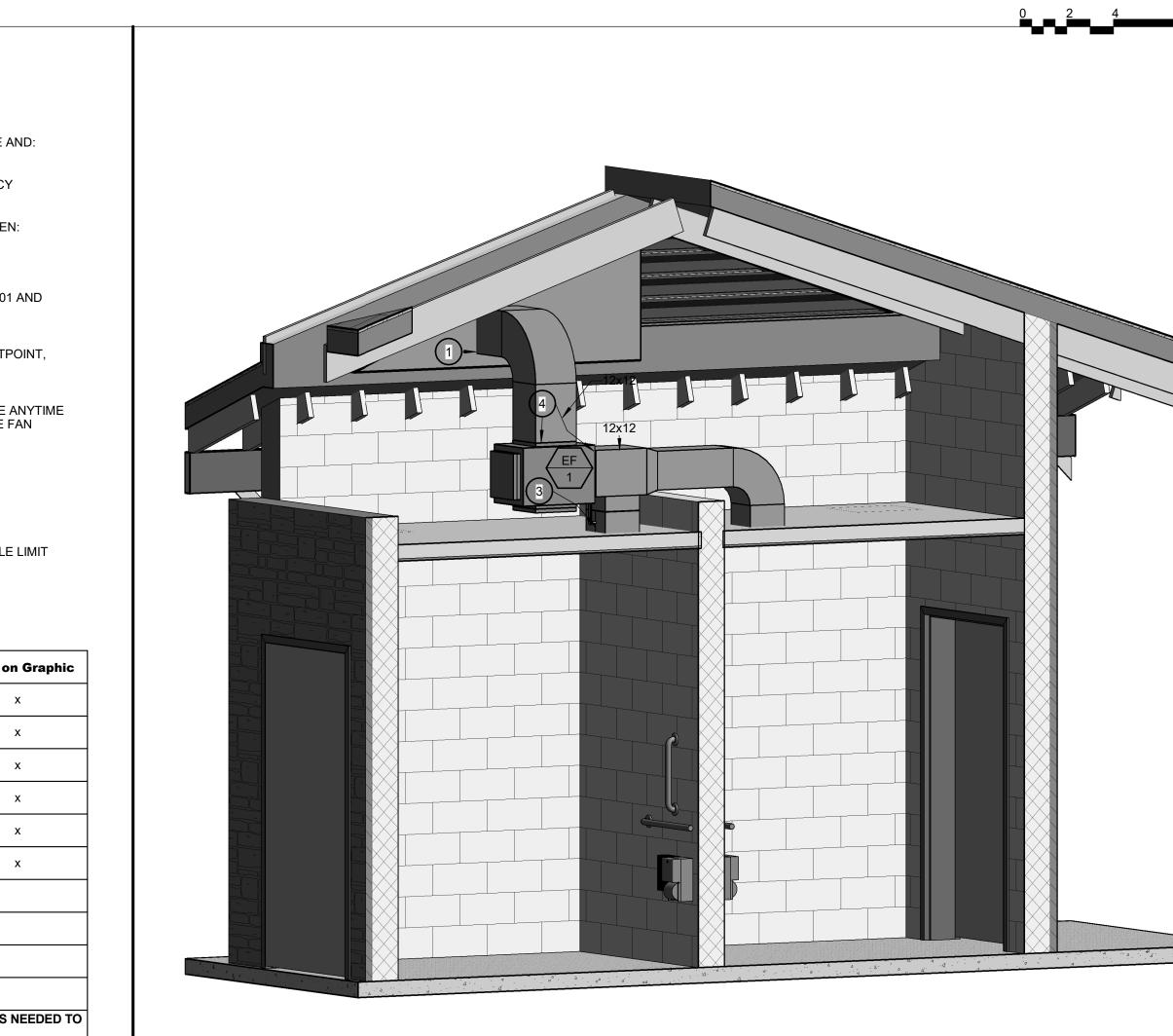
																	_
EXHAUST FAN SCHEDULE																	
MANUFACTURER	MODEL	TYPE D	DRIVE	SERVICE	CFM	TSP (IN. W.C.)	FAN MOTOR BHP	SONES	DAMPER	ELECTRICAL DATA			PHYSICAL DATA				
	MODEL		DRIVE							V/PH	FLA	MCA	L (IN.)	W (IN.)	H (IN.)	WEIGHT (LBS.)	
GREENHECK	SQ-98-VG	INLINE	DIRECT	RESTROOMS	600	0.5	0.25	2.9	MOTORIZED	115/1	12	16.2	21	15	15	73	

.DISCONNECT SWITCH, FACTORY MOUNTED. MOTORIZED BACKDRAFT DAMPER.

MOUNT FAN ROTATED 90 DEG TO ALLOW RIGHT-HANDED AIR DISCHARGE TO DISCHARGE VERTICALLY. .PROVIDE LATERAL BRACING AND SEISMIC RESTRAINTS.

	ELECTRIC CEILING HEATER SCHEDULE												
			LOCATION	FAN		ELECTRICAL DATA			PHYSICAL DATA				
MARK	MARK MANUFACTURER	MODEL		CFM	HP	кw	AMPS	V/PH	L (IN.)	W (IN.)	H (IN.)	WT. (LB.)	REMARKS
ECH-1	MARLEY	QFF4004	RR P001	150	0.02	3	14.4	208/1	16	19	3.75	23	1,2
ECH-2	MARLEY	QFF4004	RR P002	150	0.02	3	14.5	208/1	16	19	3.75	23	1,2
ECH-3	MARLEY	QFF4004	CL2 P003	150	0.02	1.5	7.2	208/1	16	19	3.75	23	1,2
NOTES:													

	AIR DEVICE SCHEDULE										
MARK	MANUFACTURER	MODEL	SERVICE	STYLE	FACE SIZE	FRAME	FINISH	MATERIAL	REMAR		
E1	TITUS	350RL	EXHAUST	GRILLE	24X24	SURFACE	WHITE	ALUMINUM	1,2,3		
NOTES:	E1 ITTUS 350RL EXHAUST GRILLE 24X24 SURFACE WHTE ALUMINUM 1,2,3 NOTES: 1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH REFLECTED CEILING PLAN. 2. PROVIDE TITUS "RAPID MOUNT" FRAMES AT GYPSUM CEILINGS. 3. INTEGRATED OPPOSED BLADE DAMPER										



3

REMARKS

1-4

REMARKS

- 1,2 1,2 1,2
- REMARKS 1,2,3

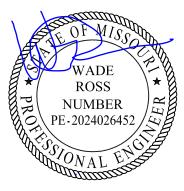


A. MAKE-UP AIR PROVIDED VIA DOOR LOUVERS, SEE ARCHITECTURAL DRAWINGS.

KEYNOTES (#)

- 12X12 EXHAUST DUCT UP TO ARCHITECTURAL LOUVER. PROVIDE AN INSULATED SHEET METAL EXHAUST AIR PLENUM 6" DEPTH TO CONNECT TO ARCHITECTURAL WALL LOUVER. 2" FIBERGLASS INSULATION AROUND EXHAUST PLENUM. SEAL CONNECTION WATER AND AIR TIGHT. PROVIDE AND INSTALL BACKDRAFT DAMPER WHERE DUCT CONNECTS TO EXHAUST PLENUM.
- 2 LOW VOLTAGE CEILING OCCUPANCY SENSOR. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
- 3 10" SQUARE VOLUME DAMPER.
- 4 USE A FLEXIBLE DUCT CONNECTOR TO CONNECT DUCTWORK TO EXHAUST FAN FF-1
- 5 WALL MOUNTED TEMPERATURE SENSOR WITH VANDAL PROOF ENCLOSURE. FURNISH AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



DATED: 10.22.2024 EXPIRATION: 12.31.2025



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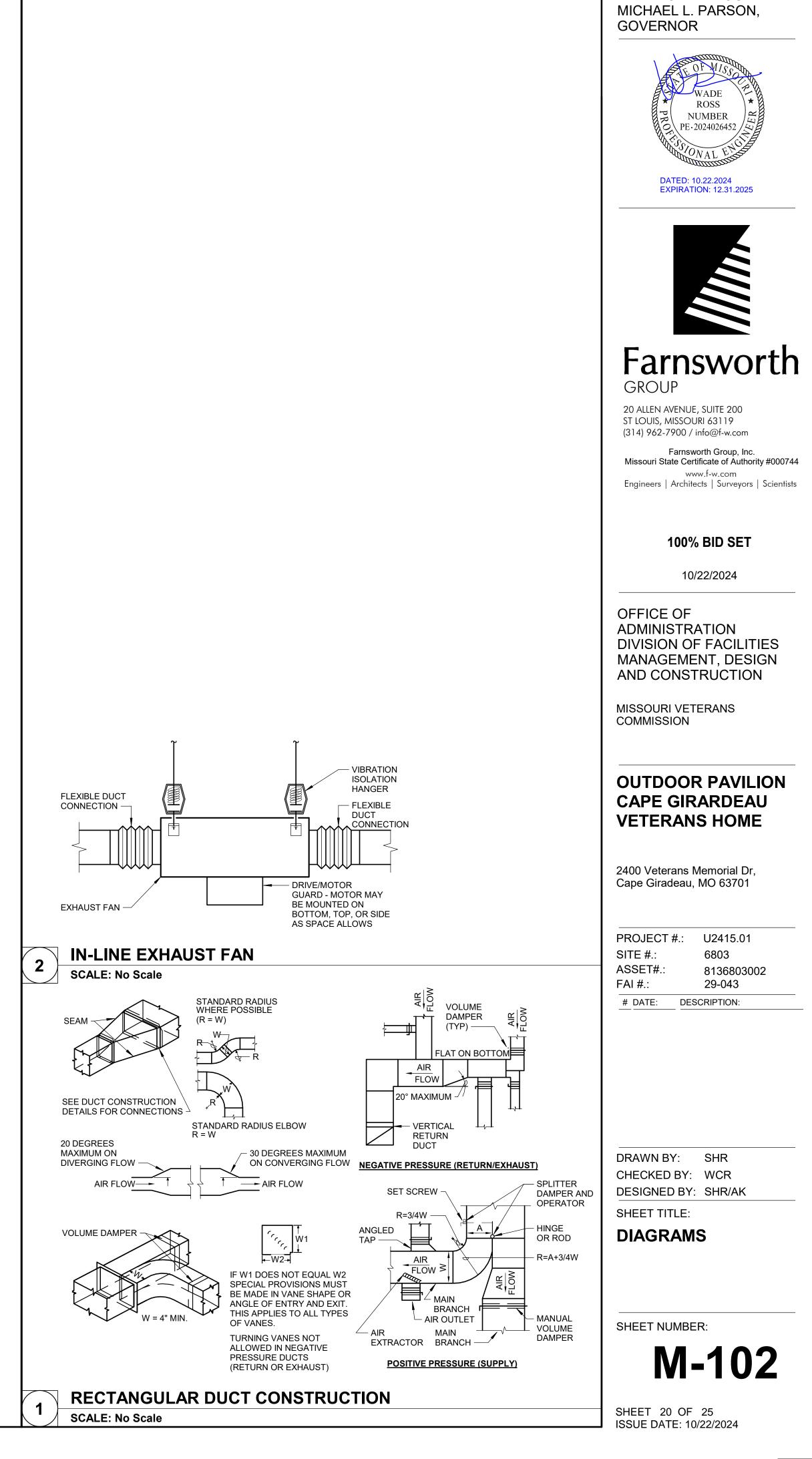
DRAWN BY: SHR CHECKED BY: WCR DESIGNED BY: SHR/AK SHEET TITLE:

FIRST FLOOR MECHANICAL PLAN

SHEET NUMBER:



SHEET 19 OF 25 ISSUE DATE: 10/22/2024



STATE OF MISSOURI



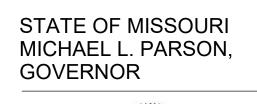
GENERAL SYME	BOLS	POWER SYMBO	LS
AHU 1	MECHANICAL EQUIPMENT CALL-OUT: REFER TO THE EQUIPMENT DATA SCHEDULE FOR DETAILS		BRANCH CIRCUIT PANELBOARD - SURFACE MOUNTED
(GWH1)	PLUMBING EQUIPMENT CALL-OUT: REFER TO THE EQUIPMENT DATA SCHEDULE FOR DETAILS		BRANCH CIRCUIT PANELBOARD - FLUSH MOUNTED
(#)	KEYED NOTE		DISTRIBUTION PANELBOARD OR SWITCHBOARD
(100A4G)	FEEDER CALL-OUT	Т	TRANSFORMER
			POLE MOUNTED TRANSFORMER
$\langle \underline{1} \rangle$	FOOD SERVICE EQUIPMENT DESIGNATION		MOTOR CONTROL CENTER
Room name 101A	ROOM NUMBER	\boxtimes	CONTROL PANEL
Δ	REVISION CALL-OUT		GROUND BAR
\sim	NEW EQUIPMENT (TYPICAL)		UTILITY KILOWATT-HOUR METER
		L	SAFETY SWITCH - NON-FUSIBLE
	EXISTING EQUIPMENT (TYPICAL)	L F	SAFETY SWITCH - FUSIBLE
		\boxtimes	MAGNETIC STARTER
	DEMOLITION EQUIPMENT (TYPICAL)	I VFD	COMBINATION STARTER VFD VARIABLE FREQUENCY DRIVE
السیمین ل	WALL MOUNT BRACKET (TYPICAL)	\sim	EQUIPMENT - MOTOR
WIRING AND CC	<u>ONDUITS</u>	φ	DUPLEX RECEPTACLE (NEMA 5-20R) - MOUNTED 18" AFF GFI GROUND FAULT CIRCUIT INTERRUPTER
	CONDUIT - CONCEALED IN SUSPENDED CEILING OR WALL		SS SURGE SUPPRESSOR (ISOLATED GROUND TYPE) WP WEATHERPROOF H HOSPITAL GRADE
	CONDUIT - EXPOSED		TP TAMPER PROOF D DEDICATED USB STANDARD DUPLEX WITH 2 USB PORTS
	CONDUIT - CONCEALED BELOW SLAB OR GRADE	${\rm P} \Phi^{\rm AC}$	DUPLEX RECEPTACLE - MOUNTED 6" ABOVE COUNTER
——0	CONDUIT - TURNING UP	φ	DUPLEX RECEPTACLE - SPLIT WIRED - MOUNTED 18" AFF
	CONDUIT - TURNING DOWN	φ	DUPLEX RECEPTACLE - EMERGENCY POWER - MOUNTED 18" AFF
—-C—	CONDUIT - UP AND DOWN (CHANGE IN ELEVATION)	\bigcirc	DUPLEX RECEPTACLE - CEILING MOUNTED
\$	CONDUIT - CONTINUED	\bigcirc	DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED
\sim	CONDUIT - FLEXIBLE	#	QUADRUPLEX RECEPTACLE - MOUNTED 18" AFF
	CONDUIT - CAPPED	₩ ₽ ^{AC}	QUADRUPLEX RECEPTACLE - MOUNTED 6" ABOVE COUNTER
J	JUNCTION BOX	\oplus	QUADRUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED
U	JUNCTION BOX - EMERGENCY POWER	φ	SINGLE RECEPTACLE - MOUNTED 18" AFF
	CONDUIT FITTING (CONDULET)	Ŷ	SPECIAL PURPOSE RECEPTACLE - MOUNTED 18" AFF
-3	EXPANSION FITTING		SPECIAL PURPOSE RECEPTACLE - CEILING MOUNTED
	SEALING FITTING		SPECIAL PURPOSE RECEPTACLE - FLUSH FLOOR MOUNTED
	CABLE TRAY	\bigcirc	FLOOR BOX - SEE SPECS OR KEYED NOTES ON PLAN FOR DETAILS
			POWER POLE
			CEILING FAN
		⊉	HAND DRYER

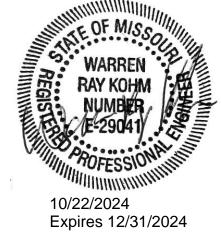
В PUSH BUTTON

<u>LIGH</u>

GHTING SYMBO	LS
<u> </u>	LUMINAIRE TYPE
A	LUMINAIRE - RECESSED (REFER TO LUMINAIRE SCHEDULE)
	 CONNECTED FOR NIGHT LIGHT USE CIRCUIT NUMBER AND SWITCH LEG (LUMINAIRES ARE CONTROLLED BY LOCAL SWITCH UNLESS DESIGNATION GIVEN)
	UMINAIRE - SURFACE MOUNTED
	RECESSED LUMINAIRE CONNECTED TO THE
	EMERGENCY POWER SYSTEM OR BALLAST/DRIVER
	OPEN INDUSTRIAL LUMINAIRE EMERGENCY POWER SYSTEM OR BALLAST/DRIVER
ю	WALL MOUNTED LUMINAIRE
\bigcirc	RECESSED DOWNLIGHT - CEILING MOUNTED
\bigcirc	RECESSED DOWNLIGHT w/ EMERGENCY BALLAST/DRIVER - CEILING MTD.
\bigcirc	SURFACE MOUNTED DOWNLIGHT
	RECESSED ADJUSTABLE/WALLWASH - CEILING MOUNTED
0⊶□	POLE MOUNTED SITE LIGHTING - SINGLE HEAD
	POLE MOUNTED SITE LIGHTING - DUAL HEAD
	POLE MOUNTED SITE LIGHTING - TRIPLE HEAD
	POLE MOUNTED SITE LIGHTING - QUAD HEAD
· ·	LINEAR PENDANT
ullet	PENDANT
	TRACK LIGHTING
\otimes	EXIT SIGN - SINGLE FACE, CEILING MOUNTED ARROW INDICATES DIRECTION OF EXIT
$\overline{\bigotimes}$	EXIT SIGN - SINGLE FACE, WALL MOUNTED
₩	EXIT SIGN - DUAL FACE, CEILING MOUNTED
\bigotimes	EXIT SIGN - DUAL FACE, WALL MOUNTED
8	EXIT SIGN WITH EMERGENCY LIGHT ARROW INDICATES DIRECTION OF EXIT
<u>6</u>	EMERGENCY LIGHT
\$ ^a	TOGGLE SWITCH - MOUNTED 48" AFFbLOWER CASE LETTER DENOTES LTG. SWITCH GROUP2DOUBLE-POLE SINGLE-THROW (DPST)33-WAY44-WAYBPUSHBUTTONDDIMMER (WALL BOX TYPE)KKEY OPERATEDMMANUAL MOTOR STARTERPPILOT LIGHTTTIMERTTTHERMAL TRIP SWITCHWPWEATHERPROOFOSWALL BOX OCCUPANCY SENSOROS2WALL BOX OCCUPANCY SENSOR FOR TWO LEVEL SWITCHINGVSWALL BOX VACANCY SENSORLVLOW VOLTAGE SWITCHTCTEACHER CONTROLS STATIONTETEACHER ENTRY STATIONMCMOMENTARY CONTAT SWITCH
OS _a	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR a LOWER CASE LETTER DENOTES LTG. SWITCH GROUP
	CEILING MOUNTED DAYLIGHT SENSOR a LOWER CASE LETTER DENOTES LTG. SWITCH GROUP
(VS) _a	CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR a LOWER CASE LETTER DENOTES LTG. SWITCH GROUP
	PHOTOCELL

- RC ROOM CONTROLLER
- LC1 LIGHTING CONTACTOR
- LRP LIGHTING RELAY PANEL
- INV INVERTER







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100% BID SET

10/22/2024

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr, Cape Girardeau, MO 63701

PROJECT #	t.: U2415-01
SITE #.:	6803
ASSET #.:	8136803002
FAI #.:	29-043
# DATE	DESCRIPTION

DATE: DESCRIPTION:

DRAWN BY: KMA CHECKED BY: WRK DESIGNED BY: TLA SHEET TITLE:

ELECTRICAL SYMBOLS

SHEET NUMBER:



SHEET 21 OF 25 ISSUE DATE: 10/22/2024

GENERAL NOTES:

- A. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS, AND BUILDING DETAILS. VERIFY LOCATION OF ALL WALL OUTLETS, SWITCHES, ETC., WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS.
- B. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT. THIS VERIFICATION SHALL BE DONE THROUGH THE ARCHITECT.
- C. SEE MECHANICAL/PLUMBING/KITCHEN DRAWINGS FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL/PLUMBING/KITCHEN EQUIPMENT, FOR WIRING AND CONTROL DIAGRAMS, AND FOR EXACT LOCATION OF EQUIPMENT.
- D. COORDINATE SCHEDULE OF CONSTRUCTION WITH THE OWNER, OTHER TRADES AND UTILITIES INVOLVED BEFORE INSTALLATION OF UNDERGROUND FEEDERS, TRENCHING, ETC.
- E. USE EXTREME CAUTION DURING EXCAVATION TO LOCATE EXISTING UNDERGROUND PIPING, CONDUITS, ETC. LOCATE AND PROTECT ANY BURIED UTILITIES IN AREAS OF EXCAVATION.
 F. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING
- GROUT AND SEAL ALL CONDUCT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.G. DRAWINGS SHOW EXISTING CONDITIONS OF THE SITE. AN ATTEMPT HAS BEEN MADE TO SHOW EXISTING
- BUILDING, SITE DETAILS, ETC., BUT ACCURACY CANNOT BE GUARANTEED. VERIFY EXACT LOCATIONS OF ALL CIRCUITS, CONDUITS, PIPING, EQUIPMENT, ETC. VERIFY ALL SITE AND BUILDING DETAILS.
- H. PROVIDE DEDICATED, GREEN INSULATED, EQUIPMENT GROUND CONDUCTOR IN ALL CONDUIT AND WIRING RUNS. SIZE EQUIPMENT GROUND CONDUCTOR IN ACCORDANCE WITH CURRENT EDITION OF NATIONAL ELECTRICAL CODE IN FORCE IN JURISDICTION.
- I. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, COORDINATE AND CONFIRM WITH THE MECHANICAL AND PLUMBING CONTRACTOR THE EXACT LOCATIONS AND FEED REQUIREMENTS OF ALL EQUIPMENT NEEDING AN ELECTRICAL CONNECTION.
- J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LAYOUT OF LIGHT FIXTURES AND CEILING TYPES. VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.
- K. REFER TO ARCHITECTURAL PLANS TO CONFIRM ALL FIRE-RATED CEILINGS AND WALLS.
- 1. ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS' LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS." THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING AND SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. THESE FINAL AND APPROVED DRAWINGS SHALL BE READILY AVAILABLE TO THE LOCAL INSPECTORS AT ALL TIMES AT THE PROJECT SITE.

L. ALL LIGHT FIXTURES SHALL BE EQUIPPED WITH A GREEN GROUND WIRE BONDED TO THE HOUSING.M. FINISH OF ALL LIGHTING FIXTURES IS SUBJECT TO ARCHITECT'S APPROVAL. SUBMIT SAMPLES IF REQUESTED.

- N. ALL SELF-CONTAINED EMERGENCY BATTERY PACK EXITS AND LIGHT FIXTURES SHALL BE CIRCUITED TO THE SAME BRANCH LIGHTING CIRCUIT SERVING THE NORMAL LIGHTING IN THE AREA. THE CIRCUIT SHALL BE UNSWITCHED SO THAT THE BATTERY CHARGER IS CONTINUOUSLY BEING ENERGIZED DURING NORMAL POWER CONDITIONS. IF THE LIGHT FIXTURE IS SHOWN OR INDICATED AS BEING SWITCHED, THE LAMPS ONLY SHALL BE CONTROLLED BY THE SWITCHED CONDUCTOR(S).
- O. THE ELECTRICAL CONTRACTOR SHALL BE HELD FINANCIALLY RESPONSIBLE FOR ANY AND ALL COSTS OF THE ENGINEERS TIME REQUIRED TO REVIEW AND RESEARCH NON-SPECIFIED EQUIPMENT SUBMITTED FOR SUBSTITUTION BY THE ELECTRICAL CONTRACTOR. THESE COSTS SHALL BE AUTOMATICALLY INVOICED TO THE CONTRACTOR UNLESS SUCH SUBSTITUTIONS FOLLOW THE GUIDELINES FOR SUBSTITUTION AND ARE WITHIN THE PROPER TIME FRAME AS OUTLINED IN OTHER SECTIONS OF THIS SPECIFICATION.
- P. PROVIDE AND INSTALL IN EACH PANEL, TYPEWRITTEN NEAT TWO-COLUMN CIRCUIT INDEX CARD SET UNDER PLASTIC COVERS ON INSIDE OF DOORS. EACH ODD-NUMBERED CIRCUIT SHALL BE IN SEQUENCE ON ONE COLUMN AND THE EVEN-NUMBERED CIRCUITS ON THE OTHER COLUMN (E.G. 1,3,5...,2,4,6...). EACH CIRCUIT SHALL BE IDENTIFIED AS TO THE USE AND ROOM NAME(S) OR AREA(S). THE CONTRACTOR SHALL CONFIRM ROOM NAMES AND/OR ROOM NUMBERS WITH THE ARCHITECT PRIOR TO PROJECT COMPLETION.
- Q. PRIOR TO SUBMITTING BID PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT CONSTRUCTION SITE TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- R. UNLESS INDICATED IN SOME MANNER THAT ELECTRICAL EQUIPMENT IS EXISTING ALL OTHER EQUIPMENT SHALL BE NEW.
- S. CONTRACTOR SHALL NOT SCALE DRAWING FOR QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL MEASUREMENTS.
- T. IF POSSIBLE, ALL NEWLY INSTALLED RECEPTACLES SHALL BE INSTALLED IN SEPARATE OR ADJACENT STUD SPACES, TO AVOID SOUND TRANSMISSION AND WALL INTEGRITY ISSUES. ALL NEWLY INSTALLED RECEPTACLES LOCATED IN COMMON STUD SPACES OF FIRE-RESISTANT WALLS SHALL BE EQUIPPED WITH FIRE-RESISTANT PUTTY PADS AT THE BACK OF EACH BOX IN ACCORDANCE WITH NEC 300.21.
- GENERAL NOTES CONDUIT AND WIRING:
- A. WHERE CONDUIT AND WIRING RUNS ARE NOT SHOWN ON FLOOR PLANS, THE CONTRACTOR SHALL DETERMINE AND PROVIDE THE REQUIRED CONDUIT AND WIRING FOR SPECIFIED CIRCUITING IN ACCORDANCE WITH NEC AND THE FOLLOWING MINIMUM REQUIREMENTS:
- 1. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- 2. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. #10 AWG SHALL BE USED FOR HOME RUNS OF 20 AMP BRANCH CIRCUITS OVER 100 FEET IN LENGTH.
- 3. EACH RACEWAY SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC.
- 4. DERATING OF CONDUCTOR AMPACITY SHALL BE APPLIED PER NEC.
- 5. NO SHARING OF NEUTRALS ALLOWED. CIRCUIT SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. ONE CIRCUIT, ONE NEUTRAL.
- 6. MAXIMUM SIX FOOT FLEXIBLE FIXTURE WHIP SHALL BE USED FOR FINAL CONNECTIONS TO LIGHT FIXTURES INSTALLED IN LAY-IN CEILINGS. MAXIMUM FOUR LIGHT FIXTURE WHIPS SHALL BE CONNECTED FROM ONE JUNCTION BOX. FEED THRU BETWEEN LIGHT FIXTURES SHALL NOT BE ALLOWED.

REMODELING NOTES:

- A. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND SHALL HAVE HAD VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- B. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS BEEN TAKEN FROM EXISTING RECORD DRAWINGS OF THIS PROJECT. THE DRAWINGS SHOWING LOCATION OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC., IN EXISTING AREAS ARE APPROXIMATE ONLY (FIELD VERIFY).
- C. BRANCH CIRCUITS SHALL BE REUSED WHERE PRACTICAL AND SHALL, IN ADDITION, BE REMODELED AS REQUIRED. THE CONTRACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. WHERE EXPOSED WORK IS REQUIRED IN FINISHED AREAS, THE CONTRACTOR SHALL USE WIREMOLD RACEWAY WITH #500 BEING THE MINIMUM SIZE ACCEPTABLE.
- D. EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- E. OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES, AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF IT IS NOT POSSIBLE TO REMOVE, PLACE A BLANK COVER ON THE OUTLET BOX. WHERE OUTLETS, BOXES, ETC., ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF CONDUITS AND REMOVE WIRING.
- F. WHERE EXISTING LIGHT FIXTURES ARE TO BE REUSED, THE ELECTRICAL CONTRACTOR SHALL CLEAN AND REPLACE LAMPS, REPAIR OR REPLACE DEFECTIVE PARTS, LENS, BALLAST, ETC. AS REQUIRED.
- G. WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, IN A CRAWL SPACE OR IN AN ACCESSIBLE CEILING. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF AND CAPPED OR PLUGGED.
- H. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRED PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACED, ETC., AS REQUIRED. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR THE OWNER.
- I. ALL TEMPORARY AND REMODELING WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- J. EXAMINE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING EXISTING, TEMPORARY, REMODELED AND NEW AREAS.
- K. ALL ELECTRICAL CONNECTIONS REQUIRING AN OUTAGE SHALL BE MADE DURING AN APPROVED TIME LIMIT. CHANGEOVERS SHALL BE AS SHORT A DURATION AS POSSIBLE AND SHALL NOT INTERFERE WITH NORMAL OPERATION OF THE OWNER'S FACILITIES. NOTICE SHALL BE REQUIRED IN ADVANCE OF A SHUTDOWN OF ANY ELECTRICAL CIRCUIT FOR CHANGEOVER, AND SUCH A CHANGEOVER SHALL BE DONE DURING HOURS AS DIRECTED BY OWNER. WORK SHALL BE SCHEDULED SO THAT AT NO TIME WILL ANY EMERGENCY FEEDER, CIRCUIT, OR FIRE ALARM ZONE BE OUT OF SERVICE. PROVIDE NECESSARY TEMPORARY FEEDERS TO ACCOMPLISH THIS REQUIREMENT.
- L. EXISTING LOW VOLTAGE WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO CONDITION, OR POSITION, AS REQUIRED. PROPERLY RE-SECURE CABLE IN CHASES, CRAWL SPACES, TUNNELS, AND CEILING SPACES AS REQUIRED BY NEC. IN SOME CASES IT MAY BE NECESSARY TO ADD SUPPORTING HARDWARE TO ACCOMPLISH THIS REQUIREMENT.
- M. IF POSSIBLE, ALL NEWLY INSTALLED RECEPTACLES SHALL BE INSTALLED IN SEPARATE OR ADJACENT STUD SPACES, TO AVOID SOUND TRANSMISSION AND WALL INTEGRITY ISSUES. ALL NEWLY INSTALLED RECEPTACLES LOCATED IN COMMON STUD SPACES OF FIRE-RESISTANT WALLS SHALL BE EQUIPPED WITH FIRE-RESISTANT PUTTY PADS AT THE BACK OF EACH BOX IN ACCORDANCE WITH NEC 300.21.

DEMOLITION GENERAL NOTES:

- A. RETURN REMOVED MATERIAL DEEMED SALVAGEABLE BY OWNER'S REPRESENTATIVE. MATERIALS DEEMED NOT SALVAGEABLE SHALL BE REMOVED FROM THE PREMISES.
- B. THE CONTRACTOR WILL BE HELD TO HAVE EXAMINED THE PREMISES AND SATISFIED HIMSELF AS TO EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO PERFORM HIS WORK. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL HARMONIZE HIS WORK SO THAT EACH PIECE OF EQUIPMENT WILL BE INSTALLED AS TO FUNCTION PROPERLY. THE CONTRACTOR SHALL COOPERATE WITH OTHER TRADES.
- C. REMOVE ALL EXISTING WIRING DEVICES, LIGHT FIXTURES, WIRE, CONDUIT, ETC., AS NOTED OR INDICATED WITHIN DEMOLITION AREA. (ALL ITEMS MAY NOT BE SHOWN). REWORK AS NECESSARY CIRCUITING WHICH REQUIRES CONTINUATION THROUGH THE AREA.
- D. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY LABOR, CONDUIT, WIRE, CONNECTIONS, ETC., FOR DEVICES, FIXTURES, ETC., NOTED AS "EXISTING TO REMAIN" SUCH THAT EXISTING CIRCUIT CONTINUITY IS MAINTAINED.
- E. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO REMOVE/RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT SUCH THAT ELECTRIC SHOCK HAZARDS TO WORKMEN ARE ELIMINATED DURING DEMOLITION AND NEW CONSTRUCTION.
- F. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK IN REMOVING AND REPLACING "EXISTING TO REMAIN" FIXTURES, DEVICES, ETC., AS REQUIRED SO THAT THESE DEVICES ARE NOT DAMAGED DURING DEMOLITION. RELOCATED TO NEAREST APPROPRIATE LOCATION TO AVOID CONFLICTS WITH OTHER TRADES' WORK. REPLACE WITH NEW ANY "EXISTING TO REMAIN" FIXTURE, DEVICE, ETC., NOT DEEMED SALVAGEABLE BY OWNER'S REPRESENTATIVE.
- G. REMOVED OR DAMAGED CONDUIT, WIRE, AND FITTINGS SHALL NOT BE REUSED FOR RELOCATED OR NEW DEVICES.
- H. MAKE AS-BUILTS WITH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS, INDICATING CIRCUIT DESCRIPTION (USED OR SPARE), CIRCUIT BREAKERS AND CIRCUIT LOAD.
- WORK REQUIRED FOR EXISTING EQUIPMENT NOTED AS "EXISTING TO BE REMOVED" SHALL INCLUDE:
 REMOVAL OF FEEDER FROM EQUIPMENT TO POINT OF FEED.
- 2. REMOVAL OR RE-CIRCUITING OF ALL BRANCH CIRCUITING.
- 3. REMOVAL OF ALL FITTINGS, SUPPORTS, BRACKETS, ETC.
- 4. PATCHING OF WALLS, FLOORS AND CEILINGS PER ARCHITECT'S INSTRUCTIONS.
- 5. CAPPING OF FEEDER CONDUIT AT 6" ABOVE OR BELOW FLOOR/CEILING AS REQUIRED AND MARKING LOCATION OF POINT OF FEED WITH AN ENGRAVED BRASS TAG.
- REMOVAL OF FEEDER CONDUIT IF FOUND TO BE UNSALVAGEABLE BY ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE.
- J. EXISTING EQUIPMENT NOT IMPLICITLY SHOWN ON THE DRAWINGS IS INTENDED TO BE "EXISTING TO REMAIN UNCHANGED", UNLESS NOTED OTHERWISE.

ABBREVIATIONS

E	BREVIATIONS
	EXISTING (ALSO COVERED BT TEXT WEIGHT)
	FUTURE
	PARTIAL CIRCUIT RELOCATE
	TWO SPEED, SINGLE WINDING
	TWO SPEED, TWO WINDING AMPERES
	6" ABOVE COUNTER
	AMERICANS WITH DISABILITIES ACT AMPERES FRAME
	ARC FAULT CIRCUIT INTERRUPTER
	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
	AUTHORITY HAVING JURISDICTION
	AMPERES INTERRUPTION CAPACITY ALUMINUM
	AMPERES TRIP
	AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE
	BUILDING MANAGEMENT SYSTEM
	CONDUIT CAMERA
	CIRCUIT BREAKER
	CLOSED CIRCUIT TELEVISION COUNTER CLOCKWISE
	CIRCUIT
	CENTER LINE CEILING
	CONDUIT ONLY
	COLOR RENDERING INDEX CURRENT TRANSFORMER
_	COPPER
	CLOCKWISE
	DISCONNECT
	DISTRIBUTION DOUBLE POLE DOUBLE THROW
	DOUBLE POLE SINGLE THROW
	DUPLEX RECEPTACLE DRAWING(S)
	ELECTRICAL CONTRACTOR
	ELEVATOR CONTRACTOR ELECTRIC/ELECTRICAL
	EMERGENCY
	ELECTRICAL METALLIC TUBING EQUIPMENT
	ELECTRIC WATER COOLER
	EXPLOSION PROOF FUSED
	FIRE ALARM
	FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL
	FOOTCANDLE
	FULL LOAD AMPERES FLEXIBLE METAL CONDUIT
	FIBER OPTIC
	FIRE PROTECTION CONTRACTOR FUSED SWITCH
	FIRE/SMOKE DAMPER
	FOOT/FEET FULL VOLTAGE, NON-REVERSING
	FULL VOLTAGE, REVERSING
	GROUND GENERAL CONTRACTOR
	GENERATOR
	GROUND FAULT GROUND FAULT INTERRUPTER
	GROUND/GROUNDING
	HORIZONTALLY MOUNTED HANDHOLE
	HIGH INTENSITY DISCHARGE
	HAND-OFF-AUTO HORSEPOWER
	HIGH PRESSURE SODIUM
	FREQUENCY INPUT/OUTPUT
	INSIDE DIAMETER INTERMEDIATE DISTRIBUTION FRAME
	ISOLATED GROUND
	INTERMEDIATE METAL CONDUIT SHORT CIRCUIT CURRENT
	KELVIN (COLOR TEMPERATURE) 1000 CIRCULAR MILS
_	
	KILVOLT-AMPERES KILOWATTS
	KILOWATT-HOUR
	LOCAL AREA NETWORK LIGHTING CONTACTOR
	LIGHTING CONTROL PANEL
	LIGHT EMITTING DIODE LINEAR FOOT
	LIQUID-TIGHT FLEXIBLE METAL
	CONDUIT LIGHT FIXTURE SCHEDULE
	LUMEN
	LIGHTING LOW VOLTAGE
-	

ABBREVIATIONS						
MAN	MANUAL MOTOR STARTER WITH OVERLOADS					
MAX	MAXIMUM					
MC	MECHANICAL CONTRACTOR					
MCA MCB	MINIMUM CIRCUIT AMPERES MAIN CIRCUIT BREAKER					
MCC	MOTOR CONTROL CENTER					
MCP	MOTOR CIRCUIT PROTECTOR					
MDF MDP						
MEPFP	MAIN DISTRIBUTION PANEL MECHANICAL, ELECTRICAL, PLUMBING,					
	FIRE PROTECTION					
MGB MH	MASTER GROUND BAR MANHOLE					
MH	METAL HALIDE					
MIN	MINIMUM					
MLO MOCP	MAIN LUG ONLY MAXIMUM OVERCURRENT					
	PROTECTION					
MSB MTG	MAIN SWITCHBOARD MOUNTING					
MTS	MANUAL TRANSFER SWITCH					
MVA	MEGAVOLT-AMPERES					
MW MWH	MEGAWATT MEGAWATT-HOURS					
N	NEUTRAL					
N/A	NOT APPLICABLE					
NC NEC	NORMALLY CLOSED NATIONAL ELECTRIC CODE					
NEMA	NATIONAL ELECTRIC CODE					
	MANUFACTURERS ASSOCIATION					
NF NFPA	NONFUSED NATIONAL FIRE PROTECTION					
	ASSOCIATION					
NIC NL	NOT IN CONTRACT NIGHT LIGHT					
NO	NORMALLY OPEN					
NP	NAMEPLATE					
NTS OC	NOT TO SCALE ON CENTER					
OD	OUTSIDE DIAMETER					
ОН	OVERHEAD					
OWN	OWNER POLE					
PA	PUBLIC ADDRESS					
PB	PULL BOX					
PC PC	PHOTOCELL PLUMBING CONTRACTOR					
PDT	PASSIVE DUAL TECHNOLOGY					
PF	POWER FACTOR					
PH PIR	PHASE PASSIVE INFRARED					
PIR	PROGRAMMABLE LOGIC CONTROLLER					
PNL	PANEL					
PR PRI	PAIR PRIMARY					
PT	POTENTIAL TRANSFORMER					
PV	PHOTOVOLTAIC					
PVC	POLYVINYL CHLORIDE					
-						
PWC PWR	PRE-WIRED CONTROLS POWER					
PWC PWR RCPT	POWER RECEPTACLE					
PWC PWR RCPT REQD	POWER RECEPTACLE REQUIRED					
PWC PWR RCPT	POWER RECEPTACLE					
PWC PWR RCPT REQD RF RM RMC	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT					
PWC PWR RCPT REQD RF RM	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH					
PWC PWR RCPT REQD RF RM RMC	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE -					
PWC PWR RCPT REQD RF RM RMC RNC RVAT	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER					
PWC PWR RCPT REQD RF RM RMC RMC	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE -					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT SHORT CIRCUIT SUBDISTRIBUTION PANEL SECONDARY					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT SIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT SHORT CIRCUIT SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT SIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPST SR ST	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPST SR ST SW	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPST SR ST	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SHLD SHLD SHT SPD SPDT SPST SR ST SW SWBD SWGR TBD	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED					
PWC PWR PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPST SR ST SW SWBD SWGR	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHBOARD					
PWC PWR PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SR ST SW SWBD SWGR TBD TC TEMP TT	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SR ST SW SWBD SWGR TBD TC TEMP TT TTB	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH					
PWC PWR PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SR ST SW SWBD SWGR TBD TC TEMP TT	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPDT SPST SR ST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPDT SPST SR ST SW SWBD SWBD SWBD SWGR TBD TC TEMP TT TTB TYP U U U U G UL	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPDT SPST SR ST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND					
PWC PWR RCPT REQD RF RM RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UU UON	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UNDERGROUND UNDERGROUND UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED					
PWC PWR PWR RCPT REQD RF RM RMC RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES					
PWC PWR PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U UG UG UL UON UPS V VA VAC	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT					
PWC PWR PWR RCPT REQD RF RM RMC RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES					
PWC PWR PWR RCPT REQD RF RM RMC RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA VAC VDC VFD VND	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT VARIABLE FREQUENCY DRIVE VENDOR					
PWC PWR PWR RCPT REQD RF RM RMC RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA VAC VAC VDC VFD VND W	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID MON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERGROUND UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT VARIABLE FREQUENCY DRIVE VENDOR WATTS					
PWC PWR PWR RCPT REQD RF RM RMC RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SW SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA VAC VAC VDC VFD VND W	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT VARIABLE FREQUENCY DRIVE VENDOR					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPST SR ST SV SWBD SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA VAC VDC VFD VND W WHM	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT VARIABLE FREQUENCY DRIVE VENDOR WATTS WIRE WEATHERPROOF					
PWC PWR RCPT REQD RF RM RMC RMC RNC RVAT SC SCC SDP SEC SDP SEC SHLD SHT SPD SPDT SPDT SPST SR ST SW SWBD SWBD SWBD SWGR TBD TC TEMP TT TTB TYP U U UG UL UON UPS V VA VAC VAC VAC VAC VAC VAC VFD VND W WHM WP XFMR	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT VARIABLE FREQUENCY DRIVE VENDOR WATTS WIRE WAATTHOUR METER WEATHERPROOF TRANSFORMER					
PWCPWRPCPTREQDRFRMRMCRNCSCSCCSDPSECSHLDSPTSPDTSPSTSWSWBDSWGRTDTCTEMPTTTTBTYPUUGULUNNVVAVACVDCVNDWWHMWP	POWER RECEPTACLE REQUIRED RADIO FREQUENCY ROOM RIGID METAL CONDUIT RIGID METAL CONDUIT RIGID NON-METALLIC CONDUIT (SCH 40) REDUCED VOLTAGE - AUTOTRANSFORMER SHORT CIRCUIT SHORT CIRCUIT CURRENT RATING SUBDISTRIBUTION PANEL SECONDARY SHIELD(ED) (AS IN CABLE) SHEET SURGE-PROTECTIVE DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SINGLE RECEPTACLE SHUNT TRIP MOTOR RATED SWITCH SWITCHBOARD SWITCHBOARD SWITCHGEAR TO BE DETERMINED TIMECLOCK TEMPERATURE THERMAL TRIP SWITCH TELEPHONE TERMINAL BOARD TYPICAL UTILITY UNDERGROUND UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERUPTABLE POWER SUPPLY VOLTS VOLT-AMPERES VOLTS ALTERNATING CURRENT VARIABLE FREQUENCY DRIVE VENDOR WATTS WIRE WEATHERPROOF					

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR WARREN RAY KOHM





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Engineers | Architects | Surveyors | Scientists

100% BID SET

10/22/2024

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI VETERANS COMMISSION

OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME

2400 Veterans Memorial Dr, Cape Girardeau, MO 63701

PROJECT #	#.: U2415-01
SITE #.:	6803
ASSET #.:	8136803002
FAI #.:	29-043
# DATE:	DESCRIPTION:

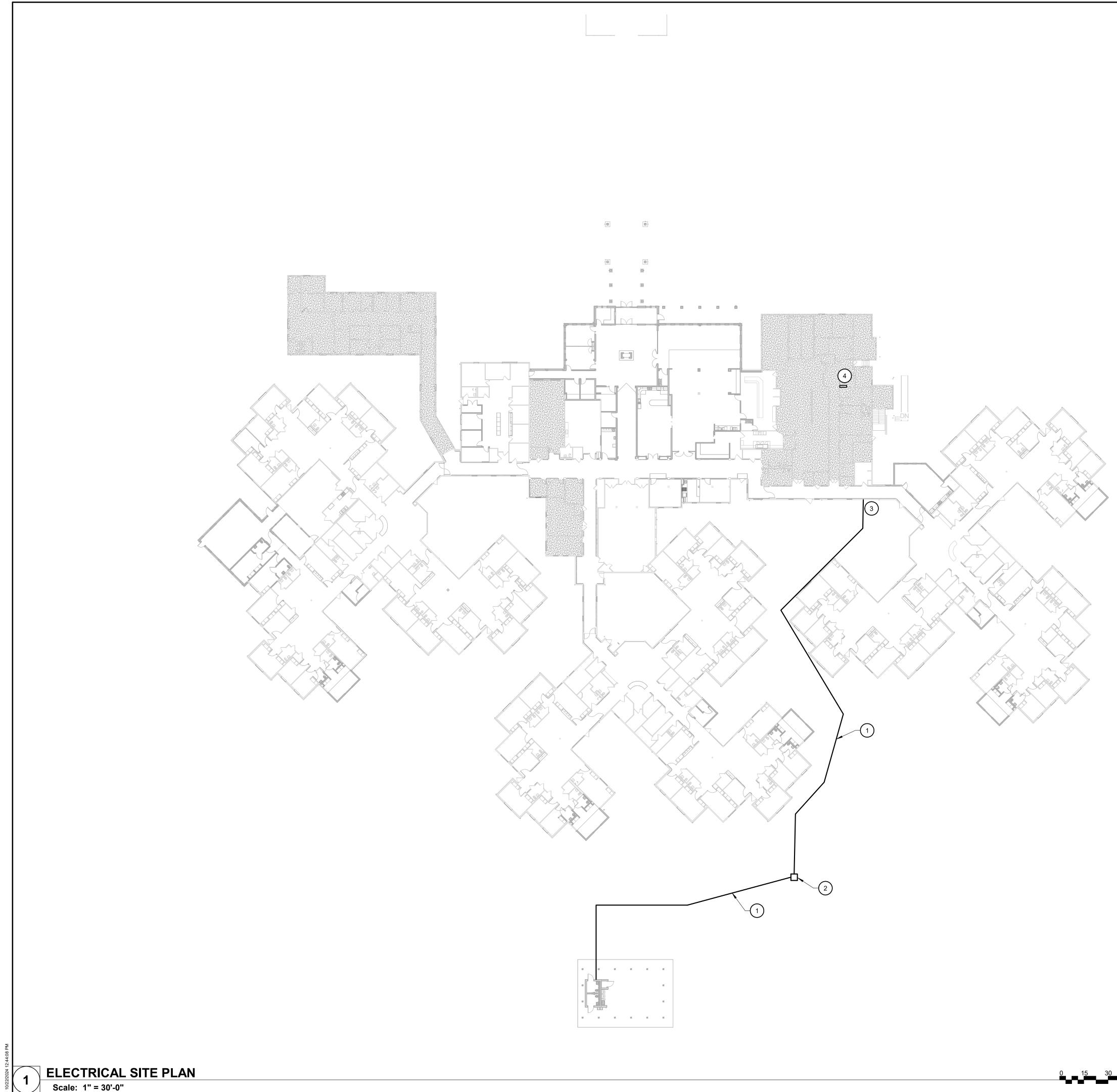
DRAWN BY: KMA CHECKED BY: WRK DESIGNED BY: TLA SHEET TITLE:

ELECTRICAL GENERAL NOTES AND ABBREVIATIONS

SHEET NUMBER:



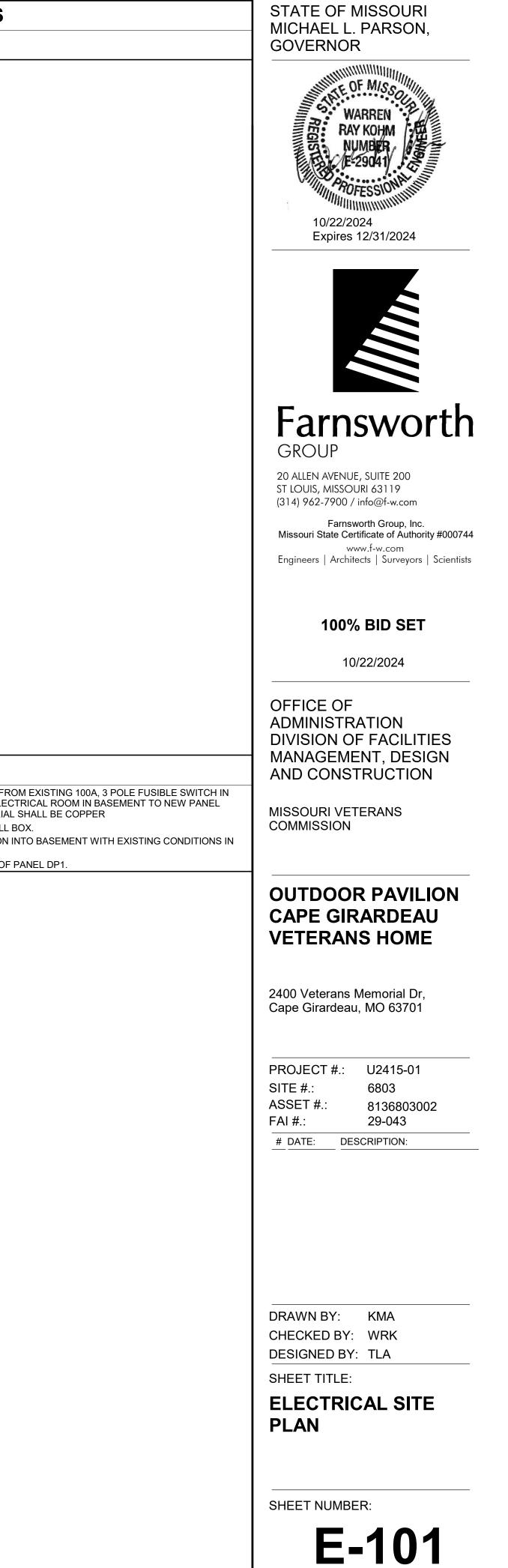
SHEET 22 OF 25 ISSUE DATE: 10/22/2024



NORTH

GENERAL NOTES

A. NOT USED.

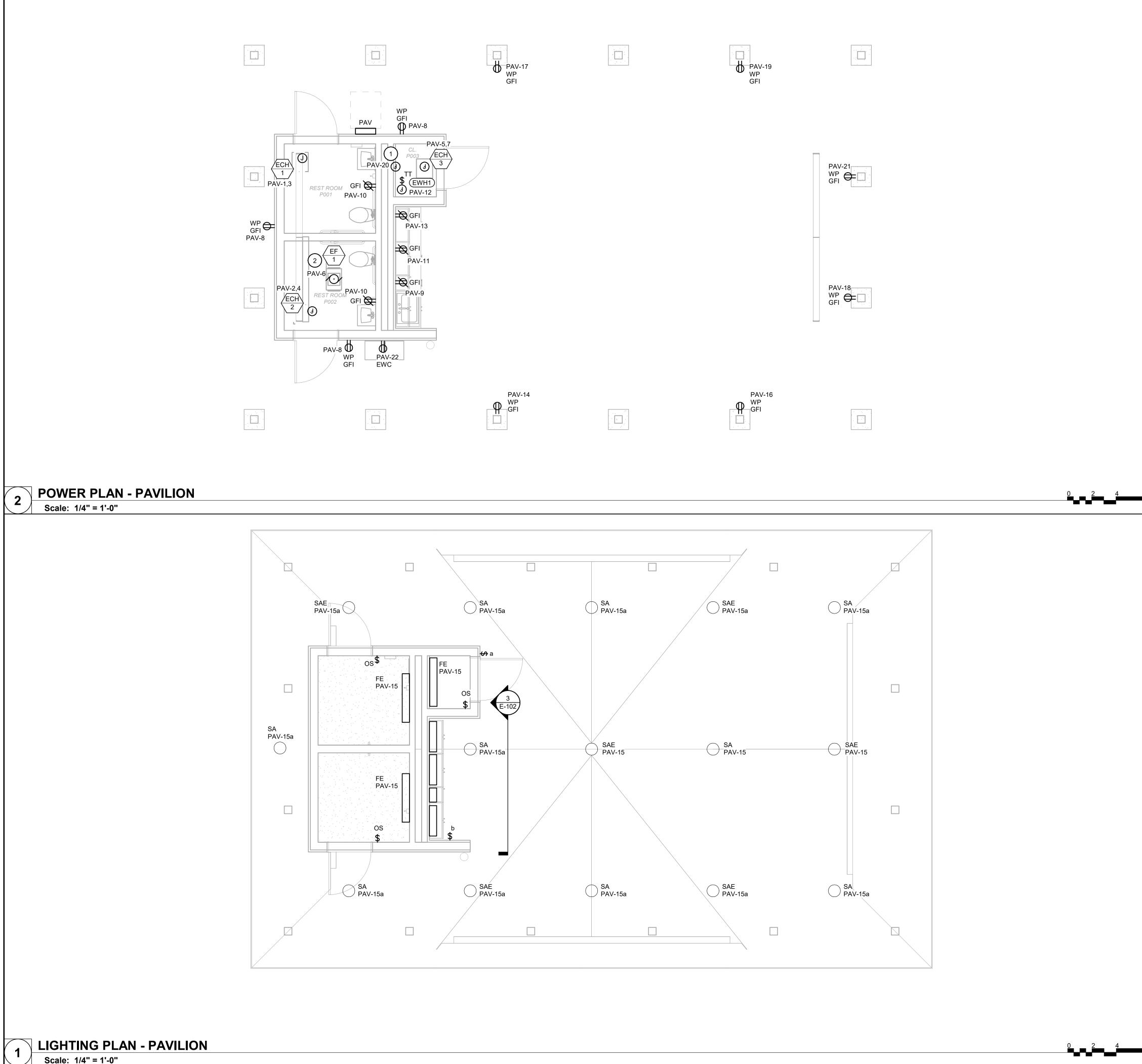


KEYNOTES (#)

PROVIDE 4#3, 1#3G IN 1"C FROM EXISTING 100A, 3 POLE FUSIBLE SWITCH IN PANEL DP1 IN EXISTING ELECTRICAL ROOM IN BASEMENT TO NEW PANEL PAV. CONDUCTOR MATERIAL SHALL BE COPPER 2 24"X24" BELOW GRADE PULL BOX.

- 3 COORDINATE PENETRATION INTO BASEMENT WITH EXISTING CONDITIONS IN BASEMENT.
- 4 APPROXIMATE LOCATION OF PANEL DP1.

SHEET 23 OF 25 ISSUE DATE: 10/22/2024



GENERAL NOTES

A. NOT USED



2400 Veterans Memorial Dr, Cape Girardeau, MO 63701

VETERANS HOME

PROJECT #	#.: U2415-01
SITE #.:	6803
ASSET#.:	8136803002
FAI #.:	29-043
# DATE:	DESCRIPTION:

DRAWN BY: KMA CHECKED BY: WRK DESIGNED BY: TLA SHEET TITLE:

LIGHTING AND **POWER PLAN -**PAVILION

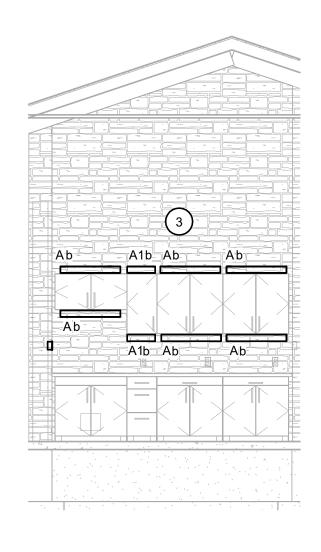
SHEET NUMBER:



SHEET 24 OF 25 ISSUE DATE: 10/22/2024

KEYNOTES (#)

- 1 PROVIDE CONNECTION TO HEAT TRACE FOR PIPING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL/PLUMBING TRADE.
- 2 PROVIDE INTERCONNECTION OF EXHAUST FAN WITH LIGHTING CONTROLS IN BOTH RESTROOMS.
- 3 PROVIDE CONNECTION FOR ALL KITCHEN AREA LIGHTING FROM PANEL PAV CIRCUIT 15.

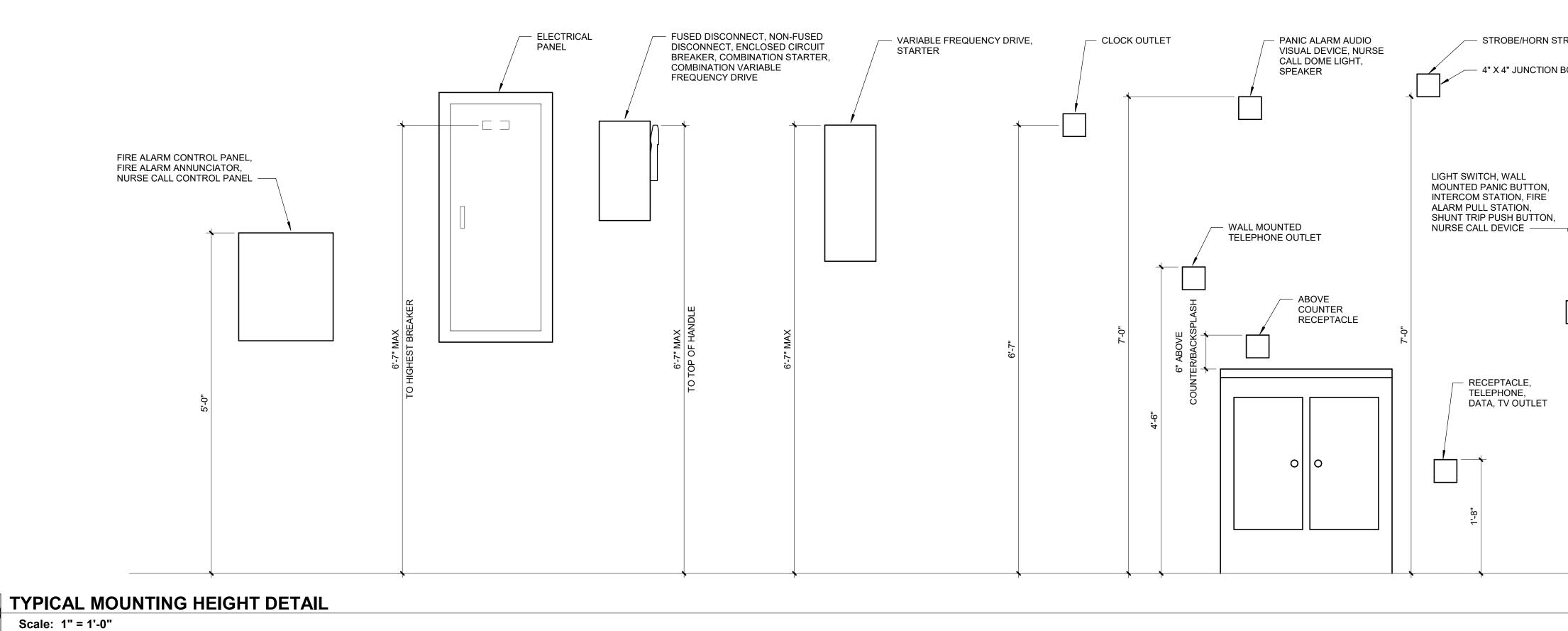




	VOLTAGE: 208/120V						CONNECTED LOAD PER					ISOLATED GROUND BUS (Y/N):				
PHASE / WIRE: 3Ø / 4W						-		ASE				BUSSING:				PEC
	RATED AMPERAGE: 1					A		B		С				MOUNTING:	SURFACE	
		100 A MCB				•				<u> </u>	МС			JLT PROTECTION (Y/N):	N	
	SCC RATING (SYM): 2				750	0 VA	631	5 VA	573	6 VA				MCB SHUNT TRIP (Y/N):	N	
						3 A	53			3 A				MCB 100% RATED (Y/N):		
скт	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES		A		B		C	POLES	BKR SIZE	TYPE (*)	IDENTIFICATION		ск
1			00.4	•	1500	1500						00.4				2
3	EWH-1		20 A	2			1500	1500			2	20 A		EWH-2		4
5	EWH-3		20 A	2					1500	696	1	15 A		EF-17		6
7				2	1500	540					1	20 A		RCPT		8
9	RCPT		20 A	1			180	360			1	20 A		RCPT		10
11	RCPT		20 A	1					180	3000	1	35 A	_	WATER HEATER EWH-1		12
13	RCPT		20 A	1	180	180					1	20 A		RCPT		14
15	LTG		20 A	1			1695	180			1	20 A		RCPT		16
17	RCPT		20 A	1			_		180	180	1	20 A		RCPT		18
19	RCPT		20 A	1	180	1920	400	700			1	20 A		HEAT TRACE		20
21	RCPT		20 A	1			180	720			1	20 A		EWC-1		22
23	SPARE		20 A	1	0		_		0		1			SPACE		24
25 27	SPARE SPARE		20 A 20 A	1	0		0				1			SPACE SPACE		26 28
27	SPARE		20 A 20 A	1			0		0		1			SPACE		28
	Classification		20 A	-	nected Lo		Demand	Eactor	, ,	nand Loa	•			PANEL TOTALS		30
Motor					696 VA		125.00			870 VA	FANEL					
HVAC					3920 VA		120.00			3920 VA		Т	OTAL (ONNECTED LOAD: 19551	VA	
	ig - Continuous				1695 VA		125.00			2118 VA		<u> </u>		TOTAL DEMAND: 20148		
Recep	<u> </u>				3240 VA		100.00			3240 VA		ΤΟΤΑ	L CONN	IECTED CURRENT: 54 A		
•												Т	OTAL D	EMAND CURRENT: 56 A		

2. (*) NUMBER INDICATES BREAKER TYPE: 1 = AFCI, 2 = CLASS A 5mA GFCI, 3 = 30mA GFPE, 4 = SHUNT TRIP ACTIVATED, 5 = PANELBOARD FEEDER SERVING UNIT SHALL BE LOCKABLE USING A PADLOCK, IN ACCORDANCE WITH OSHA LOCK-OUT-TAG RULES, 6 = LSI, 7 = LSIG.

TYPE	MANUFACTURER	CATALOG NUMBER	LAMP DESCRIPTION	VOLTAGE	LOAD (VA)	FINISH	MOUNTING	DESCRIPTION
A	ACUITY HUBBELL EATON	UPLD 30 SWW4 90CRI WH	LED	120 V	15	WHITE	SURFACE	30" UNDERCABINET LIGHTING
A1	ACUITY HUBBELL EATON	UPLD 14 SWW4 90CRI WH	LED	120 V	7	WHITE	SURFACE	14" UNDERCABINET LIGHTING
FE	ACUITY EATON HUBBELL	WL4 40L LP840 E10WLCP	LED	120 V	39.5	WHITE	WALL	4' WALL MOUNTED LENSED LED WITH EMERGENC BATTERY
SA	ACUITY HUBBELL EATON	VCPG LED V4P4 40K T5W MVOLT PM BDS DBLXD	LED	120 V	56	BLACK	PENDANT	PAVILION LUMINAIRE WITH BIRD SHROUD
SAE	ACUITY HUBBELL EATON	VCPG LED V4P4 40K T5W MVOLT PM BDS DBLXD E10WLCP	LED	120 V	56	BLACK	PENDANT	PAVILION LUMINAIRE WITH BIRD SHROUD AND EMERGENCY BATTERY
NOTES:	A. FOR CONTINUOUS FIXTURES	S, COORDINATE WITH SUPPLIER ON LENGTH AND REQUIRED FITTINGS, A	ND INSTALL WITH UNIFORM ILLU	JMINATION ALO	NG FIXTURE INC	LUDING CORN	ERS.	
	B. REMOVE ALL FINGER PRINTS	S FROM LENSES, REFLECTORS, AND LOUVERS FOLLOWING LIGHT FIXTU	RE INSTALLATION.					



				EQUI	PMEN)AT	A S	CHE	DU
	DESCR	RIPTIO	N		LOAI	DATA	4	DISC	CONNEC	T AT I
MARK	EQUIPMENT	FURNISHED BY	INSTALLED BY	LOCATION	LOAD	VOLTAGE	PHASE	DISC. TYPE	DISC. SIZE	FURNISHED BY
ECH 1	ELECTRIC CEILING HEATER	MC	MC	PAVILION	3 KW	208	1	-	-	VNE
ECH 2	ELECTRIC CEILING HEATER	MC	MC	PAVILION	3 KW	208	1	-	-	VNE
ECH 3	ELECTRIC CEILING HEATER	MC	MC	PAVILION	3 KW	208	1	-	-	VNE
EF 1	EXHAUST FAN	MC	MC	PAVILION	1/4 HP	120	1	-	-	VNE
	ELECTRIC WATER HEATER	PC	PC	PAVILION	3 KW	120	1	SW	60	EC

GENERAL NOTES:

REMARKS:

Α

1. INSTALL DISCONNECT SWITCH ON THE SIDE OF THE EQUIPMENT HOUSING. 2. PROVIDE DISCONNECT LOCKABLE IN ACCORDANCE WITH NEC 110.25.

UL	F		
		1	
FURNISHED BY	INSTALLED BY	WIRE & CONDUIT	REMARKS
'ND	VND	2#12, 1#12G, 3/4"C	
'ND	VND	2#12, 1#12G, 3/4"C	
'ND	VND	2#12, 1#12G, 3/4"C	
'ND	VND	2#12, 1#12G, 3/4"C	
EC	EC	2#10, 1#10G, 3/4"C	

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
Farnsworth Group, Inc. Missouri State Certificate of Authority #000744
100% BID SET 10/22/2024
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
MISSOURI VETERANS COMMISSION
OUTDOOR PAVILION CAPE GIRARDEAU VETERANS HOME
2400 Veterans Memorial Dr, Cape Girardeau, MO 63701
PROJECT #.: U2415-01 SITE #.: 6803 ASSET #: 8136803002 FAI #.: 29-043 # DATE: DESCRIPTION:
DRAWN BY: KMA CHECKED BY: WRK DESIGNED BY: TLA SHEET TITLE: ELECTRICAL DETAILS
SHEET NUMBER: E-501

SHEET 25 OF 25

ISSUE DATE: 10/22/2024

ROBE BOX (TYP)	EXIT	
4-0"		EXI