REPLACE ICE BUILDERS BUILDING#13 Jefferson City, Missouri

OWNER:

STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

PROJECT

OFFICE OF ADMINISTRATION

DIVISION OF FACILITIES MANAGEMENT, MANAGEMENT:

DESIGN AND CONSTRUCTION



DESIGNER:

Horner & Shifrin

PROJECT NUMBER: C2009-01

SITE NUMBER:

7029

FACILITY NUMBER: 9327029018

SHEET LIST OF DRAWINGS

GENERAL:

G-001 COVER SHEET

ARCHITECTURAL:

SYMBOLS AND ABBREVIATIONS

GENERAL NOTES

DEMOLITION PLAN - FIRST FLOOR

DEMOLITION REFLECTED CEILING PLAN - FIRST FLOOR COMPOSITE FIRST FLOOR PLAN

FLOOR PLAN - FIRST FLOOR

FOOD SERVICE:

Q-FP-01 FOODSERVICE EQUIPMENT FLOOR PLAN - BASE BID Q-FP-02 FOODSERVICE EQUIPMENT SPOT ELEC - BASE BID

Q-FP-03 FOODSERVICE EQUIPMENT SPOT PLBG - BASE BID Q-FP-04 FOODSERVICE EQUIPMENT FLOOR PLAN - ALT I

Q-FP-05 FOODSERVICE EQUIPMENT SPOT ELEC - ALT I Q-FP-06 FOODSERVICE EQUIPMENT SPOT PLBG - ALT I **MECHANICAL:**

SYMBOLS AND ABBREVIATIONS MECHANICAL DEMOLITION PLAN

MECHANICAL NEW WORK

PLUMBING:

PLUMBING SYMBOLS & ABBREVIATIONS

PLUMBING PLAN - DEMOLITION PLUMBING PLAN - NEW WORK

ELECTRICAL:

ELECTRICAL LEGEND

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION FIRST FLOOR PLAN - ELECTRICAL NEW WORK STRUCTURAL:

GENERAL STRUCTURAL NOTES

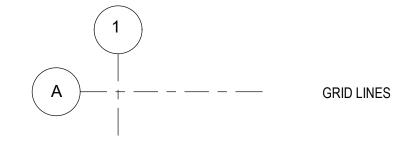
EQUIPMENT PAD LAYOUT

DETAILS

SHEET NUMBER:

1 OF 25 SHEETS

GENERAL DRAWING SYMBOLS LEGEND:



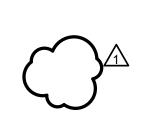
1 \ VIEW TITLE VIEW TITLE A-201 SCALE



NORTH ARROW



KEYNOTE TAG

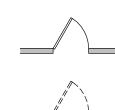


REVISION CLOUD AND DELTA

ARCHITECTURAL SYMBOLS LEGEND:

EXISTING PARTITION TO REMAIN ========= EXISTING PARTITION TO BE REMOVED

NEW PARTITION



EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN

EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED

NEW OR RELOCATED DOOR, FRAME, AND HARDWARE

ABBREVIATIONS

TREATED

<u>A</u> ACT	ACOUSTICAL CEILING TILE	G GA	GAUGE	PLAM	PLASTIC LAMINATE
ADA	AMERICANS WITH DISABILITIES ACT	GALV GC	GALVANIZED GENERAL CONTRACTOR	PSF	POUNDS PER SQUARE FOOT (FEET)
ADJ	ADJUSTABLE	GYP BD	GYPSUM BOARD	PT	PAINT(ED)
AFF	ABOVE FINISHED FLOOR	GIF BD	GTF30W BOAND	PTN	PARTITION
ALT	ALTERNATE			PWD	PLYWOOD
ALUM	ALUMINUM	<u>H</u>			
APPROX	APPROXIMATE(LY)		HOLLOW CODE		
ARCH	ARCHITECT(URAL)	HC	HOLLOW CORE	<u>Q</u>	
	, ,	HCP	HANDICAP(PED)	QTY	QUANTITY
		HDMI	HIGH-DEFINITION MULTIMEDIA INTERFACE	QII	QUANTITI
<u>B</u>		HDW	HARDWARE		
— BD	BOARD	HM	HOLLOW METAL	P	
BLDG	BUILDING	HOR	HORIZONTAL	<u>R</u>	DECH IENT DAGE
BLKG	BLOCKING	HR	HOUR	RB	RESILIENT BASE
		HT	HEIGHT	REF	REFERENCE PENEODOE(D)
				REINF	REINFORCE(D)
<u>C</u>				REQ REV	REQUIRED REVISION
<u></u>	CENTERLINE	Ī		KEV	REVISION
CFCI	CONTRACTOR	IBC	INTERNATIONAL BUILDING		
J1 J1	FURNISHED,	טםי	CODE	C	
	CONTRACTOR INSTALLED	INCL	INCLUDE(D)	<u>S</u>	00110 0000
CHAR	CHARACTOR	INSUL	INSULATION	SC	SOLID CORE
CJ	CONTROL JOINT	INT	INTERIOR	SCHED	SCHEDULE
CLG	CEILING			SF	SQUARE FOOT (FEET)
CLR	CLEAR			SIM	SMILAR
CONC	CONCRETE	<u>J</u>		SPEC SQ	SPECIFICATION SQUARE
CONT	CONTINUE, CONTINUOUS	<u>-</u> JT	JOINT	SQ FT	SQUARE FOOT (FEET)
CORR	CORRIDOR	O1	001111	SUFI	STEEL
CPU	COMPUTER			SUSP	SUSPEND(ED)
CT	CERAMIC TILE	I		SYM	SYMMETRICAL
		<u>L</u> LAM	LAMINATE	OTIVI	O TIMINE THO AL
D		LBS	POUNDS		
<u>D</u>		LF	LINEAR FOOT (FEET)	<u>T</u>	
DIA	DIAMETER	Li	ENVERTING OUT (I EET)	<u>-</u> TEMP	TEMPERED
DIM	DIMENSION(S)			TECI	TENANT(CLIENT)
DIST	DISTANCE	M		11 01	FURNISHED,
OVI	DIGITAL VISUAL INTERFACE		MANUICACTUDED		CONTRACTOR INSTALLED
	INTERFACE	MANUF	MANUFACTURER	TFTI	TENANT (CLIENT)
		MAX MECH	MAXIMUM MECHANICAL		FURNISHED, TENANT
F		MECH MEP	MECHANICAL,	TOO	(CLIENT) INSTALLED
<u>E</u>	FACIL	IVILI"	ELECTRICAL, AND	TOS TOW	TOP OF STRUCTURE TOP OF WALL
ĒA - i	EACH EXPANSION IOINT		PLUMBING	TYP	TYPICAL
EJ	EXPANSION JOINT	MEPFP	MECHANICAL,	וור	LIFIOAL
ELEC ELEV	ELECTRIC(AL) ELEVATION		ELECTRICAL, PLUMBING,		
ELEV EQ	EQUAL	MIN	AND FIRE PROTECTION	<u>U</u>	
EQUIP	EQUIPMENT	MISC	MINIMUM MISCELLANEOUS		
ETC	ET CETERA (AND SO	MTL	METAL	UL	UNDERWRITERS LABORATORIES, INC
•	FORTH)	IVI I L	IVIL I AL	UNO	UNLESS NOTED
EXIST	EXISTING			0110	OTHERWISE
EXP	EXPANSION	<u>N</u>			
EXT	EXTERIOR		NOT IN CONTRACT		
		NIC	NOT IN CONTRACT	<u>V</u>	
_		NTS	NOT TO SCALE	V VERT	VERTICAL
<u>F</u>				VERT	VERTICAL VERIFY IN FIELD
_ -D	FLOOR DRAIN	lacksquare		VWC	VINYL WALL COVERING
- E	FIRE EXTINGUISHER	<u>0</u>			000
EC	FIRE EXTINGUISHER	OC	ON CENTER		
	CABINET	OFCI	OWNER FURNISHED,	<u>W</u>	
FIN	FINISH(ED)	OEOI	CONTRACTOR INSTALLED		\//IT⊔
FIN FLR	FINISHED FLOOR	OFOI	OWNER FURNISHED, OWNER INSTALLED	W/ W/O	WITH WITHOUT
FLR	FLOOR	ОН	OPPOSITE HAND	WC	WATER CLOSET
FLUOR	FLUORESCENT	OPG	OPENING	WD	WOOD
FOF	FACE OF FINISH FIRE-RETARDANT	OPP	OPPOSITE	VVU	***************************************
RT					

CEILING RESTRAINT REQUIREMENTS FOR SEISMIC DESIGN CATEGORY D, E, & F:

ALL SUSPENDED CEILING SYSTEMS ARE TO BE INSTALLED PER IBC REQUIREMENTS, CISCA GUIDELINES FOR SEISMIC ZONES 3 & 4, AND ASCE SECTION 7 REQUIREMENTS.

BASIC CONNECTIONS, PERIMETER, AND LATERAL SPLAY BRACING:

- SUSPENDED CEILINGS GREATER THAN 144 SF SHALL BE BRACED IN ACCORDANCE WITH THE FOLLOWING:
- MINIMUM INTERSECTION STRENGTH LIMITS @ MAIN TEE/CROSS TEE IS 180 LBS. PROVIDE MIN. 12 GA VERTICAL HANGER WIRE AT 4'-0" OC MIN.
- CONNECTION DEVICE FROM VERTICAL WIRE TO STRUCTURE ABOVE MUST SUSTAIN MIN 100 LBS.
- MAIN TEE CLASSIFICATION TO BE HEAVY DUTY.
- 1 IN 6 MAX. PLUMB OF VERTICAL HANGER WIRES REQUIRED
- PROVIDE PERIMETER VERTICAL HANGER WIRES NOT MORE THAN 8" FROM WALL. MINIMUM CLEARANCE FROM GRID END TO WALL IS 3/4".
- PERIMETER CLOSURE (MOLDING) WIDTH MIN 2"
- PROVIDE GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS.
- TIE PERIMETER TEE ENDS TOGETHER. PROVIDE HORIZONTAL RESTRAINT (SPLAY WIRES OR RIGID BRACING) WITHIN 2" OF INTERSECTION AND SPLAYED 90 DEGREES APART AT 45 DEGREE ANGLES.
- PROVIDE COMPRESSION POSTS (STRUTS) AT 12" OC IN BOTH DIRECTIONS, STARTING 6' FROM
- SPLAY BRACING CONNECTION STRENGTH TO BE MIN 200 LBS OR THE DESIGN LOAD, WHICHEVER IS GREATER.
- PARTITIONS ARE TO BE BRACED INDEPENDENT OF CEILING SPLAY BRACING.
- IN ADDITION TO REQUIREMENTS NOTED ABOVE, FOR SUSPENDED CEILINGS GREATER THAN 2500 SF PROVIDE A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION DIVIDING CEILINGS INTO AREAS LESS THAN 2,500 SF.
- 16. PROVIDE RIGID BRACING FOR CEILING PLANE ELEVATION CHANGES.

LIGHT FIXTURE ATTACHMENT:

- MECHANICALLY ATTACH ALL LIGHT FIXTURES TO CEILING GRID. ATTACHMENTS MUST SUPPORT 100% OF LIGHT FIXTURE WEIGHT.
- SURFACE-MOUNTED FIXTURES DO NOT REQUIRE ATTACHMENT TO GRID.
- SUPPORT PENDANT-HUNG FIXTURES DIRECTLY FROM STRUCTURE WITH 9-GAUGE WIRE OR APPROVED ALTERNATE.
- FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING LESS THAN 10 LBS PROVIDE (1) WIRE TO STRUCTURE (MAY BE SLACK). FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING FROM 10 TO 56 LBS PROVIDE (2) VERTICAL SUPPORT WIRES (MUST BE SLACK). FOR LIGHT FIXTURES GREATER THAN 56 LBS PROVIDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE.

<u>LIGHT FIXTURE SUPPLEMENTARY HANGER WIRES:</u>

- PROVIDE INTERMEDIATE DUTY MAIN TEES WITH CROSS TEE RATING BELOW 16 LBS/LF
- PROVIDE HEAVY DUTY MAIN TEES WITH CROSS TEE RATING BELOW 16 LBS/LF.
- ATTACH MIN. 12-GAUGE HANGER WIRES TO THE SUPPORTING CROSS TEE WITHIN (3) THREE INCHES OF THE CORNER OF EACH LIGHT FIXTURE.

SERVICE APPLICATIONS:

- ALL MECHANICAL AIR TERMINALS MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. FOR TERMINALS WEIGHING FROM 20 TO 56 LBS PROVIDE (2) VERTICAL SUPPORT WIRES (MAY BE SLACK.) FOR TERMINALS WEIGHING GREATER THAN 56 LBS PROVIDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE.
- SPRINKLER HEADS AND OTHER PENETRATIONS REQUIRE A MIN 2" DIAMETER OPENING OR A SWING
- CABLE TRAYS AND ELECTRICAL CONDUIT MUST BE INDEPENDENTLY SUPPORTED AND BRACED.

DEFINITION OF TERMS:

- THE WORD "CLIENT" AS USED IN THESE DOCUMENTS REFERS TO THE ENTITY WHO HAS CONTRACTED THE ARCHITECT TO PERFORM PROFESSIONAL SERVICES ON THIS PROJECT.
- THE WORD "PROJECT" AS USED IN THESE DOCUMENTS REFERS TO THE SCOPE OF WORK
- DESCRIBED IN THESE DOCUMENTS. THE WORDS "CONTRACTOR", "GENERAL CONTRACTOR", AND "GC" AS USED IN THESE DOCUMENTS REFER TO THE GENERAL CONTRACTOR SELECTED BY THE CLIENT TO PERFORM
- THE WORK DESCRIBED IN THESE DOCUMENTS. ALL NOTES IN THESE DOCUMENTS INSTRUCT THE GENERAL CONTRACTOR.
- THE WORD "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO THE ARCHITECT OF RECORD FOR THIS PROJECT, ARCTURIS.
- THE WORDS "CONSTRUCTION TEAM" REFER TO ALL PARTIES INVOLVED IN THE CONSTRUCTION PHASE. INCLUDING BUT NOT LIMITED TO: THE CLIENT AND THEIR CONSULTANTS; THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS; THE ENGINEERS AND THE ARCHITECT.
- THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SUPERSEDES ANY DIMENSIONAL INFORMATION INDICATED. IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
- THE WORD "PROVIDE" AS USED IN THESE DOCUMENTS MEANS FURNISH AND INSTALL. THE WORDS "NOT IN CONTRACT" AND "NIC" AS USED IN THESE DOCUMENTS REFER TO WORK OR EQUIPMENT PROVIDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENTS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL PARTIES FURNISHING AND/OR INSTALLING NIC ITEMS AND COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION.
- THE WORD "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE OF MAJOR SURFACE. COORDINATE REQUIREMENTS FOR
- CONVECTORS (BASE BOARD HEATERS) OR OTHER PROTRUSIONS WITH ARCHITECT. THE WORD "MAXIMUM" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN
- THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT. 11. THE WORD "MINIMUM" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT
- SHOWN WITHOUT APPROVAL OF THE ARCHITECT. 12. THE WORD "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION OR
- DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT. THE SYMBOL "+/-" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSION OR QUANTITY IS ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. IF ACTUAL DIMENSION VARIES BY MORE THAN 1" FROM DIMENSION NOTED AS "+/-", INFORM ARCHITECT BEFORE PROCEEDING.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

ARCHITECT OF RECORD: WILLIAM W. DECKER MO #A-2006022674 WILLIAM : WINFRED DECKER ! NUMBER . A-2006022674 .

STATE CERTIFICATE OF AUTHORITY: MO 00246198 PROFESSIONAL SEAL



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2022



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

REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE# 7029 FACILITY # 9327029018

REVISION: DATE: REVISION: DATE: **REVISION:** DATE: ISSUE DATE: 09/02/22

CAD DWG FILE:
DRAWN BY:
CHECKED BY:
MR DESIGNED BY: WD

SHEET TITLE:

SYMBOLS AND **ABBREVIATIONS**

SHEET NUMBER:

GENERAL NOTES: ARCHITECTURAL

- 1. WHERE WORK OR EQUIPMENT IS INDICATED AS 'NOT IN CONTRACT (NIC)' IN THE DOCUMENTS, SUCH WORK OR EQUIPMENT SHALL BE PROVIDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENT. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH NIC ITEMS AND COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION.
- 2. DETAILS NOT SHOWN ARE TO BE SIMILAR IN CHARACTER TO THOSE DRAWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED THE CONTRACTOR IS TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- 3. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE
- 4. WHERE EXISTING WALLS, PARTITIONS, COLUMNS, FLOORS, BULKHEADS, SURFACES, OR FINISHES ARE REMOVED OR PARTIALLY DEMOLISHED, EACH TRADE IS RESPONSIBLE FOR PATCHING OR REFINISHING OF EXISTING CONSTRUCTION REQUIRED BY THAT TRADE'S WORK ON THE PROJECT. THIS WORK MUST BE DONE IN A MANNER WHICH WILL ACCEPT NEW FINISHES.
- 5. ALL NEW / MODIFIED GYPSUM BOARD ASSEMBLIES (WALLS & CEILINGS) TO RECEIVE A LEVEL FOUR (4) DRYWALL FINISH PRIOR TO APPLICATION OF PAINT TO SURFACE TO AVOID PAINT FLASHING. WALL FINISH LEVEL BASED ON GA-214-17 "RECOMMENDED LEVELS OF GYPSUM BOARD FINISH." REFER TO PARTITION TYPES FOR ADDITIONAL INFORMATION.
- ALL MATERIALS USED IN FIRE-RATED ASSEMBLIES SHALL BE APPROVED BY UL OTHER RECOGNIZED STANDARD FOR USE IN SUCH ASSEMBLIES.
- 7. ALL FIRESTOP SYSTEMS TO MEET UL TESTED SYSTEMS. SYSTEMS MUST BE SUBMITTED TO AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION. GC IS TO KEEP A COPY OF ALL APPROVED SYSTEMS ON SITE FOR DURATION OF PROJECT. ALL INSTALLED SYSTEMS MUST BE LABELED AND DOCUMENTED. DOCUMENTATION IS TO BE SUBMITTED TO OWNER AND ARCHITECT UPON COMPLETION OF THE PROJECT.
- 8. PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS FOR ALL ITEMS PENETRATING FIRE-RATED ASSEMBLIES. PENETRATIONS TO BE DESIGNED, TESTED, AND FIRE-RESISTANCE RATED TO RESIST FOR A PRESCRIBED PERIOD OF TIME THE SPREAD OF FIRE THROUGH PENETRATIONS. PROVIDE ULLISTED ASSEMBLIES AS REQUIRED.
- 9. PREPARE EXISTING FLOOR SLABS FOR INSTALLATION OF SPECIFIED FLOOR FINISHES. PREPARE EXISTING FLOOR SLABS TO BE SMOOTH AND LEVEL BEFORE INSTALLATION OF FINISH FLOOR MATERIALS, WITH MAXIMUM DEVIATION OF 1/4" IN 10'-0". NO FLOOR PREPARATION ALLOWANCES WILL BE ACCEPTED. GC AND SUBCONTRACTORS TO VISUALLY INSPECT EXISTING FLOOR SLAB CONDITIONS TO ENSURE PROPER FLOOR PREPARATION IS INCLUDED IN PROPOSAL.
- 10. ALL BUILDING ACCESSIBILITY IS DESIGNED AND SHALL BE IN ACCORDANCE WITH IBC, ANSI 117.1 AND ADAAG, WHICHEVER STANDARD PROVIDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEMENT.
- 11. FOR ALL DOORS HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" AFF.
- 12. COORDINATE QUANTITY AND LOCATION OF ALL ELECTRICAL CONNECTIONS REQUIRED FOR ALL EQUIPMENT. REFER TO EQUIPMENT LEGEND FOR ADDITIONAL ELECTRICAL AND COMMUNICATIONS REQUIREMENTS AT EQUIPMENT LOCATIONS.
- 13. TO PREVENT GALVANIC ACTION BETWEEN DISSIMILAR METALS, WHERE DISSIMILAR METALS COME INTO CONTACT WITH EACH OTHER, WHERE METALS COME INTO CONTACT WITH WOOD, CONCRETE OR MASONRY, WHERE RUNOFF FROM A METAL SURFACE FLOWS OVER A DISSIMILAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMILAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMINOUS COATING OR AN ELASTOMERIC FILM UNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT DOCUMENTS.
- 4. STEEL EXPOSED TO WATER AND/OR EXTERIOR WEATHER CONDITIONS IS TO BE GALVANIZED UNLESS INDICATED OTHERWISE. WHERE CUTTING, FASTENING, ANCHORAGE OR CONNECTION CONDITIONS RESULT IN BREAKS IN THE GALVANIZING COATING, RESTORE COATING OR APPLY APPLICABLE COMPATIBLE PROTECTIVE COATING TO MAINTAIN INTEGRITY OF PROTECTION.
- ADDITIONAL COMPATIBLE PROTECTIVE COATING TO MAINTAIN INTEGRITY OF PROTECTION.

 SHEET METAL FLASHING SHALL BE OF APPROPRIATE THICKNESS AND SIZES, AND DETAILED,
 CONFIGURED AND INSTALLED SO AS TO ALLOW FOR ACCEPTABLE THERMAL MOVEMENTS WITHOUT VISIBLE DISTORTIONS, LEAKS OR FAILURES OF THE FLASHING SYSTEM'S ABILITY TO PERFORM AS REQUIRED BY THE CONTRACT DOCUMENTS.
- 16. GC TO REVIEW AND COORDINATE ALL DESIGN/BUILD COMPONENTS WITH ARCHITECT, INCLUDING
- BUT LIMITED TO QUANTITIES, TYPES, AND LOCATIONS OF ELEMENTS.

 17. REFER TO DESIGN/BUILD MEPFP NOTES AND DESIGN/BUILD ELECTRICAL, MECHANICAL, PLUMBING,
- 17. REFER TO DESIGN/BUILD MEPFP NOTES AND DESIGN/BUILD ELECTRICAL, MECHANICAL, PLUMBIN AND FIRE PROTECTION DOCUMENTATION FOR ADDITIONAL INFORMATION.
- 18. HAZARDOUS MATERIALS: CLIENT ACCEPTS SOLE RESPONSIBILITY FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS RELATING TO THE ENVIRONMENT, INCLUDING BUT NOT LIMITED TO THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS AND THE OCCUPATIONAL SAFETY AND HEALTH ACT. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

DELEGATED DESIGN SCOPE

- 1. APPLICABLE TO THE FOLLOWING ITEMS:
 - A. RAILINGS
 B. FLOOR TRI
- B. FLOOR TRENCH INFILL (CONCRETE & REINFORCING)C. STRUCTURAL REALTED ITEMS
- THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE VARIOUS CONTRACT DOCUMENTS RELATIVE TO EACH PORTION OF THE WORK AS WELL AS THE INFORMATION FURNISHED BY THE OWNER, SHALL TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THAT PORTION OF WORK, AND SHALL OBSERVE ANY CONDITIONS AT THE SITE AFFECTING THE WORK. THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES,
- OR OMISSIONS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR AS A RFI.

 THE CONTRACTOR SHALL NOT BE REQUIRED TO PROVIDE PROFESSIONAL SERVICES THAT CONSTITUTE THE PRACTICE OF ARCHITECTURE OR ENGINEERINGS UNLESS SUCH SERVICES ARE SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS FOR A PORTION OF THE WORK OR UNLESS THE CONTRACTOR NEEDS TO PROVIDE SUCH SERVICES IN ORDER TO CARRY OUT THE CONTRACTOR'S RESPONSIBILITIES FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- DESIGN DELEGATION IF THE CONTRACT DOCUMENTS SPECIFY THAT CONSTRUCTOR IS RESPONSIBLE FOR THE DESIGN OF A PARTICULAR SYSTEM OR COMPONENT TO BE INCORPORATED INTO THE PROJECT, THEN THE CONTRACT DOCUMENTS SHALL SPECIFY ALL REQUIRED PERFORMANCE AND DESIGN CRITERIA. AS REQUIRED BY THE LAW, CONSTRUCTOR SHALL PROCURE DESIGN SERVICES AND CERTIFICATIONS NECESSARY TO SATISFACTORILY COMPLETE THE WORK FROM A LICENSED DESIGN PROFESSIONAL IN APPLICABLE JURISDICTION. THE SIGNATURE AND SEAL OF THE CONSTRUCTOR'S DESIGN PROFESSIONAL SHALL APPEAR ON ALL DRAWINGS, CALCULATIONS, SPECIFICATIONS, CERTIFICATIONS, SHOP DRAWINGS, AND OTHER SUBMITTALS RELATED TO THE WORK DESIGNED OR CERTIFIED BY THE CONSTRUCTOR'S DESIGN PROFESSIONAL.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

WILLIAM W. DECKER MO #A-2006022674

WILLIAM W. DECKER MO #A-2006022674

WILLIAM WINFRED DECKTO

STATE CERTIFICATE OF AUTHORITY: MO 00246198

PROFESSIONAL SEAL



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

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DEMICION
REVISION:
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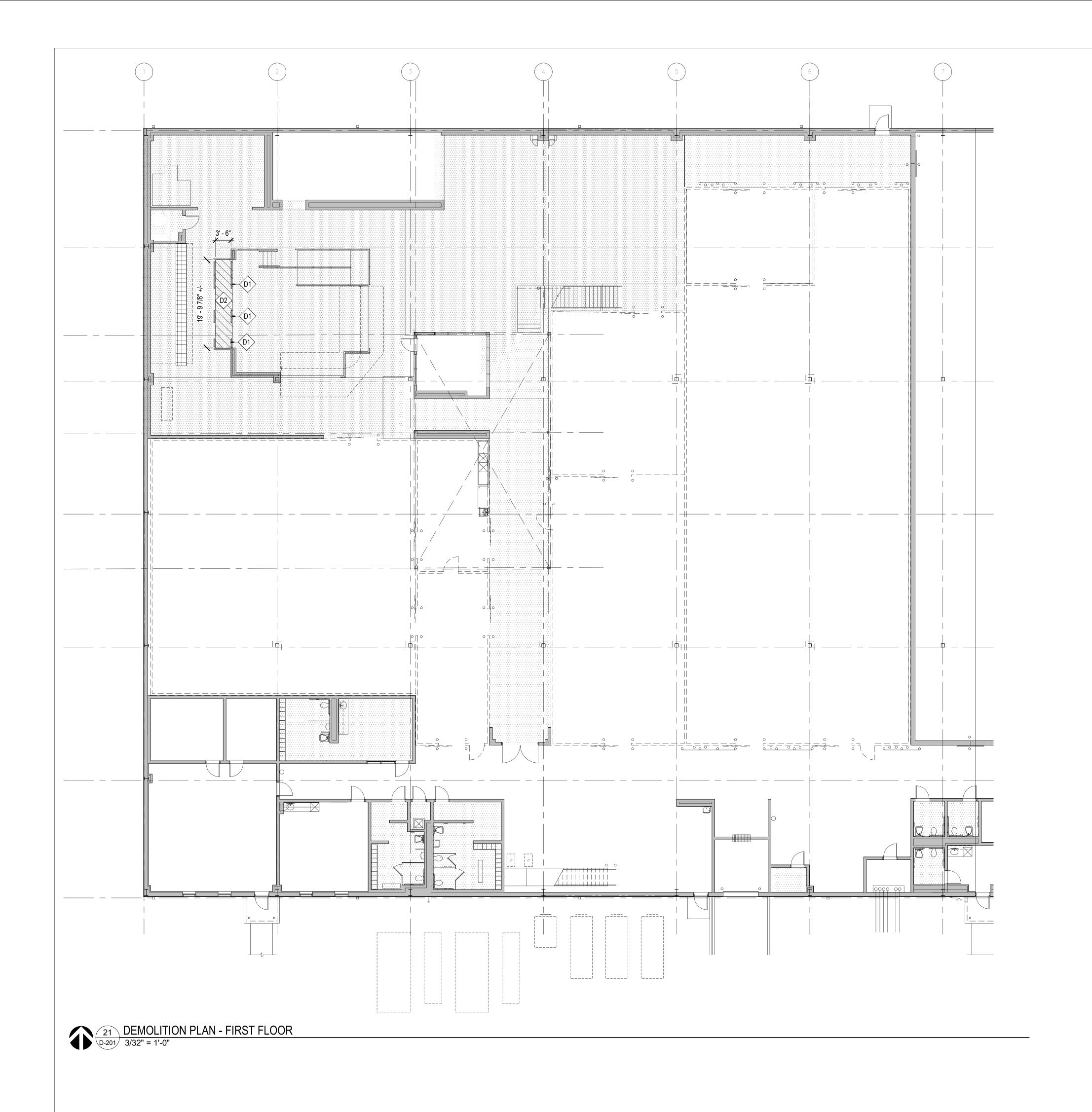
CAD DWG FILE:
DRAWN BY: WD
CHECKED BY: MR
DESIGNED BY: WD

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

A-002



GENERAL NOTES: DEMOLITION

- AREA OF DEMOLITION SHOWN IS APPROXIMATE, DIMENSIONS ARE FOR REFERENCE ONLY. EXACT LOCATION AND EXTENT OF DEMOLITION TO BE COORDIANTED WITH FIELD CONDITIONS AND MEP DEMOLITION SCOPE OF WORK.
- 2. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- 3. ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. PROTECT MECHANICAL SYSTEM AS REQUIRED. TEMPORARY PARTITIONS TO SEPARATE AREAS TO REMAIN IN OPERATION FROM AREAS WHERE DEMO/NEW WORK IS INDICATED.
 - CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR
- 5. PROVIDE BYPASS CONNECTIONS AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE TO OCCUPIED AREAS OF THE BUILDING.
- 6. REVIEW/COORDINATE SCHEDULE OF WORK TO BE DEMOLISHED WITH BUILDING MANAGEMENT TO LIMIT INTERRUPTIONS OF OWNER-OCCUPIED SPACES.
- 7. MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEMOLITION. EXISTING FIRE SPRINKLER HEADS TO REMAIN, PROTECT DURING DEMOLITION AND REINSTALLATION OF NEW CEILING.
- 8. COVER AND PROTECT EQUIPMENT AND FIXTURES INDICATED "TO REMAIN" FROM SOILAGE OR DAMAGE.
 - PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER.
- 10. NO ITEMS TO BE SALVAGED GENERAL CONTRACTOR TO DISCARD ALL ITEMS; OWNER HAS 1ST RIGHT OF REFUSAL PRIOR TO DISCARDING OF EQUIPMENT.
- 11. PREPARE EXISTING SLAB TO RECEIVE NEW FLOORING, INCLUDING REMOVAL OR SEALING OF ANY REMAINING EXISTING ADHESIVE AS REQUIRED.
- 12. LIMITED ASBESTOS SURVEY WAS COMPLETED NO MATERIAL WAS FOUND.
- 13. 30-DAY NOTICE IS REQUIRED PRIOR TO REMOVAL OF ANY EQUIPMENT.



D1

KEYED NOTES - DEMOLITION

DEMO / REMOVE EXISTING RAILING
DEMO / REMOVE STEEL EDGE ANGLE. SAWCUT
CONCRETE AND REMOVE AREA INDICATED, EXTEND
BELOW PIT FLOOR

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

WILLIAM W. DECKER
MO #A-2006022674

OF MISSO

WILLIAM
WINFRED DECKTR

**
NUMBER
A-2006022674

STATE CERTIFICATE OF AUTHORITY: MO 00246198

PROFESSIONAL SEAL



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2022



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

REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/02/22

CAD DWG FILE:
DRAWN BY: WD
CHECKED BY: MR
DESIGNED BY: WD

SHEET TITLE:

DEMOLITION PLAN - FIRST FLOOR

SHEET NUMBER:

D-201



GENERAL NOTES: DEMOLITION

- 1. AREA OF DEMOLITION SHOWN IS APPROXIMATE, DIMENSIONS ARE FOR REFERENCE ONLY. EXACT LOCATION AND EXTENT OF DEMOLITION TO BE COORDIANTED WITH FIELD CONDITIONS AND MEP DEMOLITION SCOPE OF WORK.
- 2. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- B. ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. PROTECT MECHANICAL SYSTEM AS REQUIRED. TEMPORARY PARTITIONS TO SEPARATE AREAS TO REMAIN IN OPERATION FROM AREAS WHERE DEMO/NEW WORK IS INDICATED.
- 4. CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- PROVIDE BYPASS CONNECTIONS AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE TO OCCUPIED AREAS OF THE BUILDING.
- 6. REVIEW/COORDINATE SCHEDULE OF WORK TO BE DEMOLISHED WITH BUILDING MANAGEMENT TO LIMIT INTERRUPTIONS OF OWNER-OCCUPIED SPACES.
- MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEMOLITION. EXISTING FIRE SPRINKLER HEADS TO REMAIN, PROTECT DURING DEMOLITION AND REINSTALLATION OF NEW
- 8. COVER AND PROTECT EQUIPMENT AND FIXTURES INDICATED "TO REMAIN" FROM SOILAGE OR
- DAMAGE.
 9. PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER.
- 10. NO ITEMS TO BE SALVAGED GENERAL CONTRACTOR TO DISCARD ALL ITEMS; OWNER HAS 1ST RIGHT OF REFUSAL PRIOR TO DISCARDING OF EQUIPMENT.
- 11. PREPARE EXISTING SLAB TO RECEIVE NEW FLOORING, INCLUDING REMOVAL OR SEALING OF ANY
- REMAINING EXISTING ADHESIVE AS REQUIRED.
- LIMITED ASBESTOS SURVEY WAS COMPLETED NO MATERIAL WAS FOUND.
 30-DAY NOTICE IS REQUIRED PRIOR TO REMOVAL OF ANY EQUIPMENT.

GENERAL NOTES: REFLECTED CEILING PLAN

- 1. REVIEW CEILING LAYOUT AS SHOWN AND NOTIFY ARCHITECT OF ANY CONFLICTS WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PIPE WORK, FIRE PROTECTION SYSTEMS, ETC. BEFORE PROCEEDING WITH CONSTRUCTION.
- 2. CONTROL JOINTS IN GYP BD CEILING: PROVIDE CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY APCHITECT FOR VISUAL FEEE CT.
- IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT.

 3. UNO ALL GYP BD CEILINGS TO BE MOISTURE RESISTANT.
- 4. IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEMENTS INCLUDING LIGHTING, MECHANICAL DIFFUSERS, RETURN AIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS, EXIT SIGNS, AUDIOVISUAL EQUIPMENT, SECURITY DEVICES, ETC. WITH ARCHITECT BEFORE INSTALLATION.
- 5. NOTIFY ARCHITECT OF ANY REQUIREMENTS FOR ACCESS PANELS NOT SHOWN ON DOCUMENTS BEFORE PROCEEDING WITH CONSTRUCTION.
- 6. CLEAN AND/OR REPAIR AND RELAMP ALL EXISTING LIGHT FIXTURES TO REMAIN AS NEEDED TO PERFORM AS NEW.
- 7. LIGHITNG LOCATIONS SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY ALL CONDITIONS. LIGHTS TO BE REINSTALLED AT EXISTING LOCATION

D# KEYED NOTES - DEMOLITION

- D4 DEMO / REMOVE PORTION OF EXISTING PLASTER CEILING AS INDICATED BY HATCH. HATCH INDICATES APPROXIMATE AREA OF WORK COORD EXTEND OF LOCATIONS W/ FIELD CONDITIONS AND MECHANICAL DRAWINGS. REMOVE LIGHTING, ACCESS PANELS & OTHER CEILING MOUNTED ITEMS WHERE PLASTER CEILING IS SCHEDULED TO BE DEMO'D. ITEMS TO BE REINSTALLED IN SAME LOCATION
- D5 PATCH / REPAIR / INSTALL NEW PLASTER CEILING WHERE DEMOLTION OCCURRED. FEATHER EDGES TO ALIGN / BLEND WITH EXISTING PLASTER. PAINT PLASTER CEILING (NEW & EXISTING)
- D6 NEW CONDUIT ROUTING SEE ELECTRICAL DRAWINGS. REMOVE EXISTING CEILING AS REQUIRED FOR ELECTRICAL WORK & REINSTALL CEILING IN-KIND. PATCH/PAINT/REPAIR SURFACES AS NEEDED TO RESTORE TO MATHC EXIST CONDITIONS

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ARCHITECT OF RECORD:
WILLIAM W. DECKER
MO #A-2006022674

WILLIAM W. DECKER
MO #A-2006022674

WILLIAM
WINFRED DECKER

* NUMBER
A-2006022674

A-20060121674

STATE CERTIFICATE OF AUTHORITY: MO 00246198

PROFESSIONAL SEAL



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EXPIRATION DATE: DECEMBER 31, 2022



OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

BUILDING #13

REPLACE ICE BUILDERS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

REVISION:
DATE:
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DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/06/22

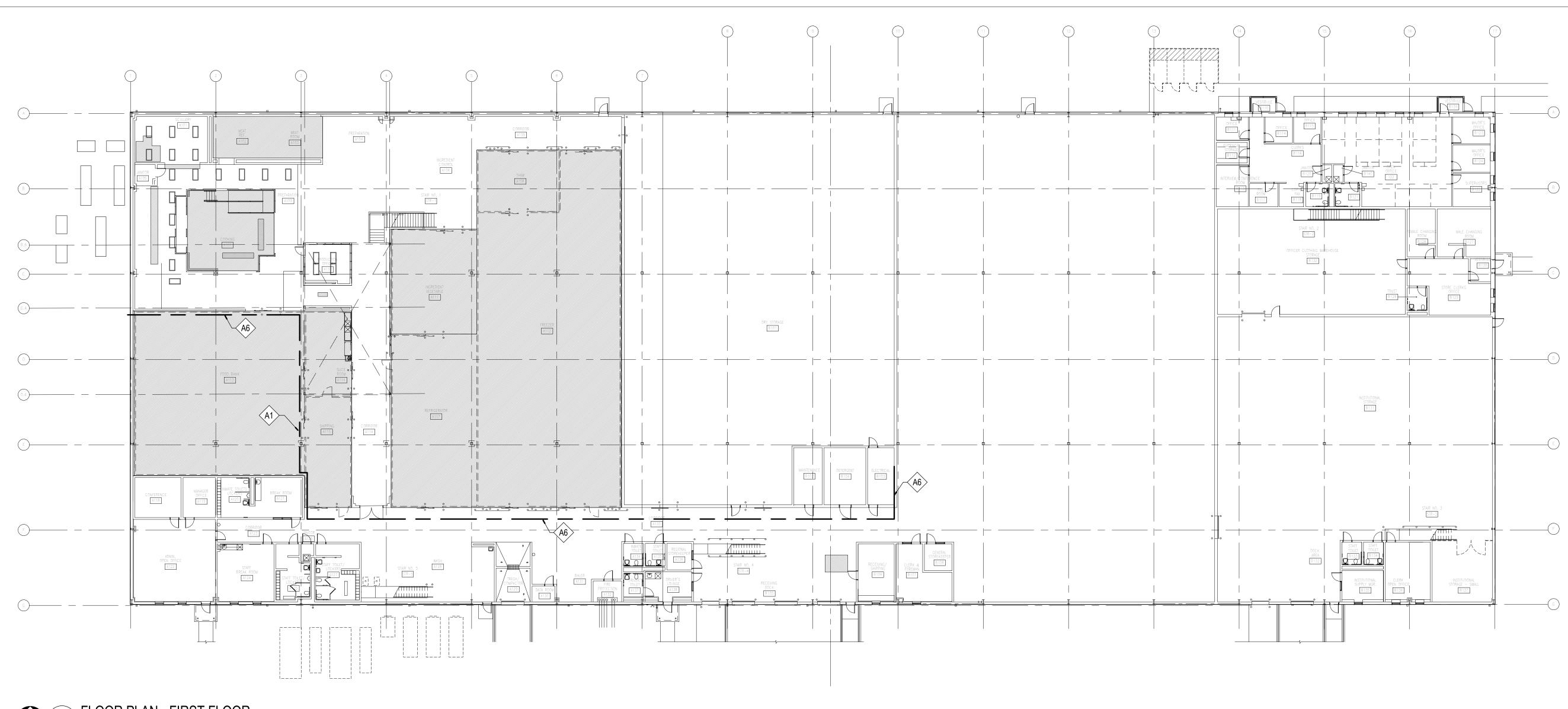
CAD DWG FILE:
DRAWN BY: WD
CHECKED BY: MR
DESIGNED BY: WD

SHEET TITLE:

DEMOLITION
REFLECTED
CEILING PLAN FIRST FLOOR
SHEET NUMBER:

D-401

5 OF 25 SHEETS 07/06/22



21 FLOOR PLAN - FIRST FLOOR
A-101 1" = 20'-0"

GENERAL NOTES: FLOOR PLANS

- 1. SEE ENGINEERING AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
- PATCH / REPAIR ALL SURFACES AFFECTED BY DEMOLITION.
- PROVIDE THOROUGH CLEANING OF ALL AREAS IN SCOPE OF WORK AFTER COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW
- WORK AND INSTALLATION OF NEW EQUIPMENT. PREPARE ALL SURFACES TO RECEVE NEW FINSISHES PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

KEYED NOTES - ARCHITECTURAL

- NEW 1-1/2" DIA STEEL PIPE RAILINGS (42" HIGH);
- PAINT. DELEGATED DESIGN NEW CONDUIT ROUTING - SEE ELECTRICAL

DRAWINGS. REMOVE EXISTING CEILING AS REQUIRED FOR ELECTRICAL WORK & REINSTALL CEILING IN-KIND. PATCH/PAINT/REPAIR SURFACES AS NEEDED TO RESTORE TO MATHC **EXIST CONDITIONS**

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

ARCHITECT OF RECORD: WILLIAM W. DECKER MO #A-2006022674 STATE CERTIFICATE OF AUTHORITY: MO 00246198

PROFESSIONAL SEAL



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

REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

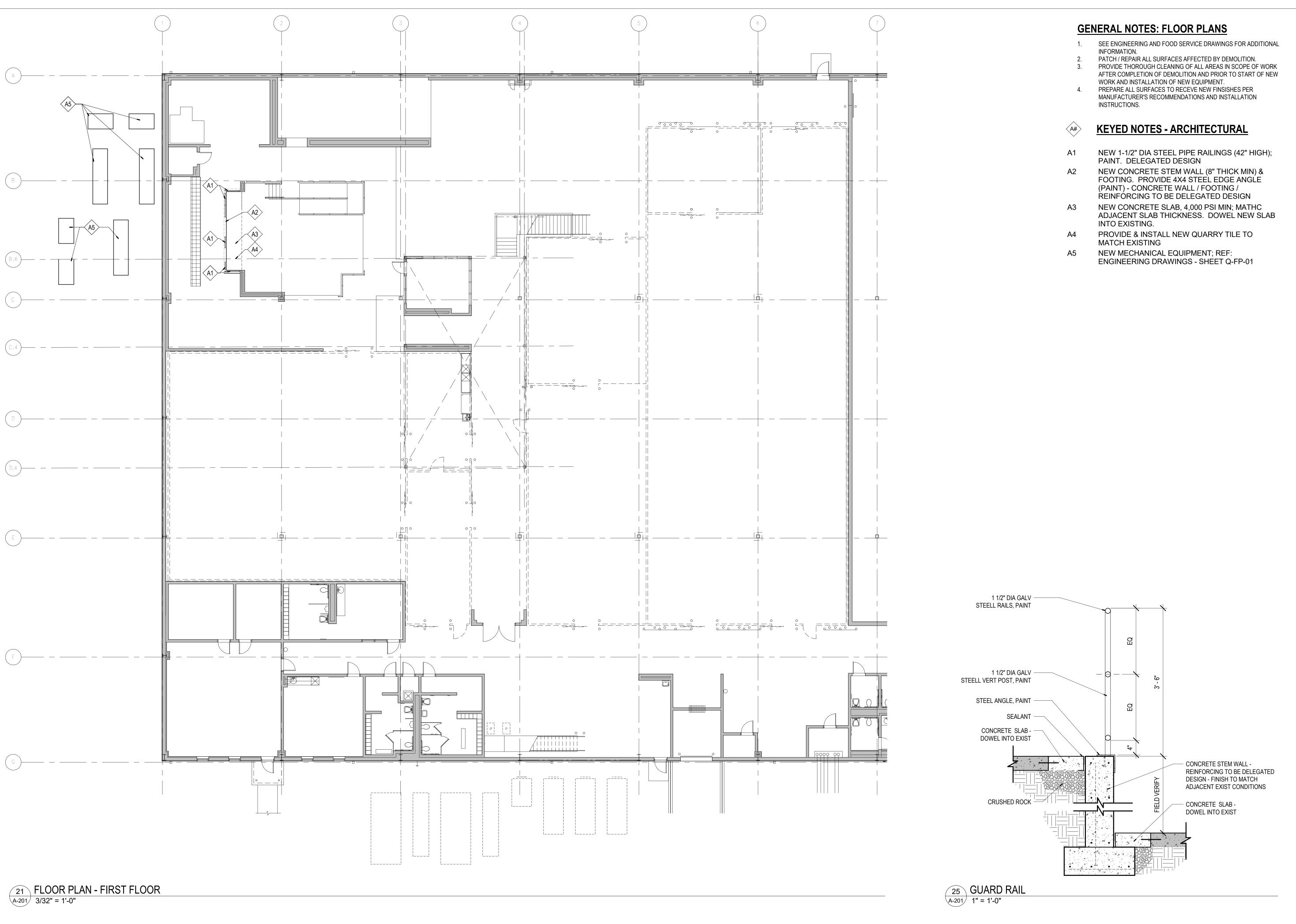
REVISION: DATE: REVISION: DATE: **REVISION:** DATE: ISSUE DATE: 09/02/22

CAD DWG FILE:
DRAWN BY:
CHECKED BY:
MR DESIGNED BY: WD

SHEET TITLE:

COMPOSITE FIRST FLOOR **PLAN**

SHEET NUMBER:



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

STATE CERTIFICATE OF AUTHORITY: MO 00246198

PROFESSIONAL SEAL



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OFFICE OF
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DIVISION OF FACILITIES
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REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

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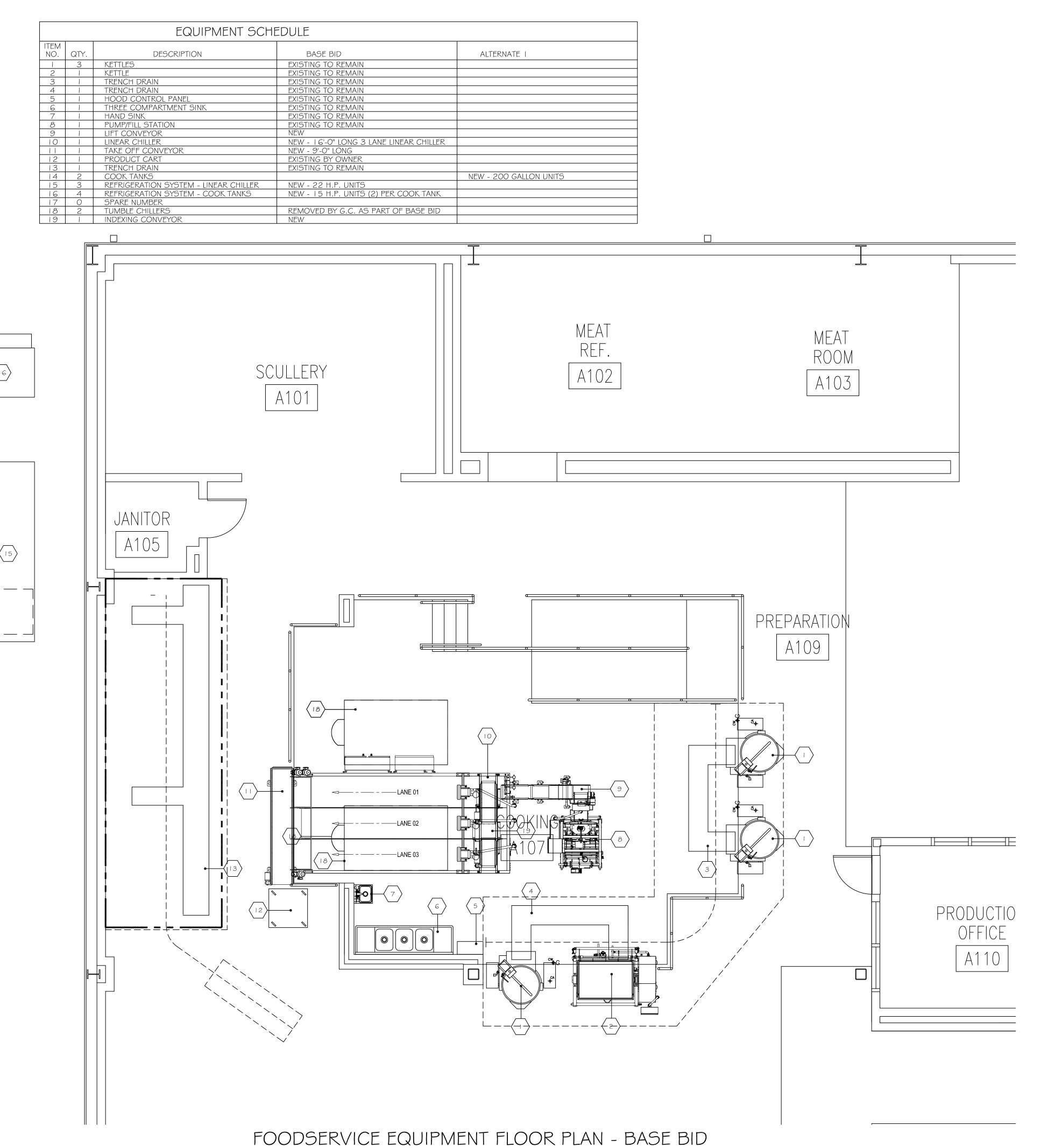
SHEET TITLE:

FLOOR PLAN -FIRST FLOOR

SHEET NUMBER:

A-201

7 OF 25 SHEETS 07/06/22



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

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ENGINEER OF RECORD:

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

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DRAWN BY: MDG
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DESIGNED BY: MDG

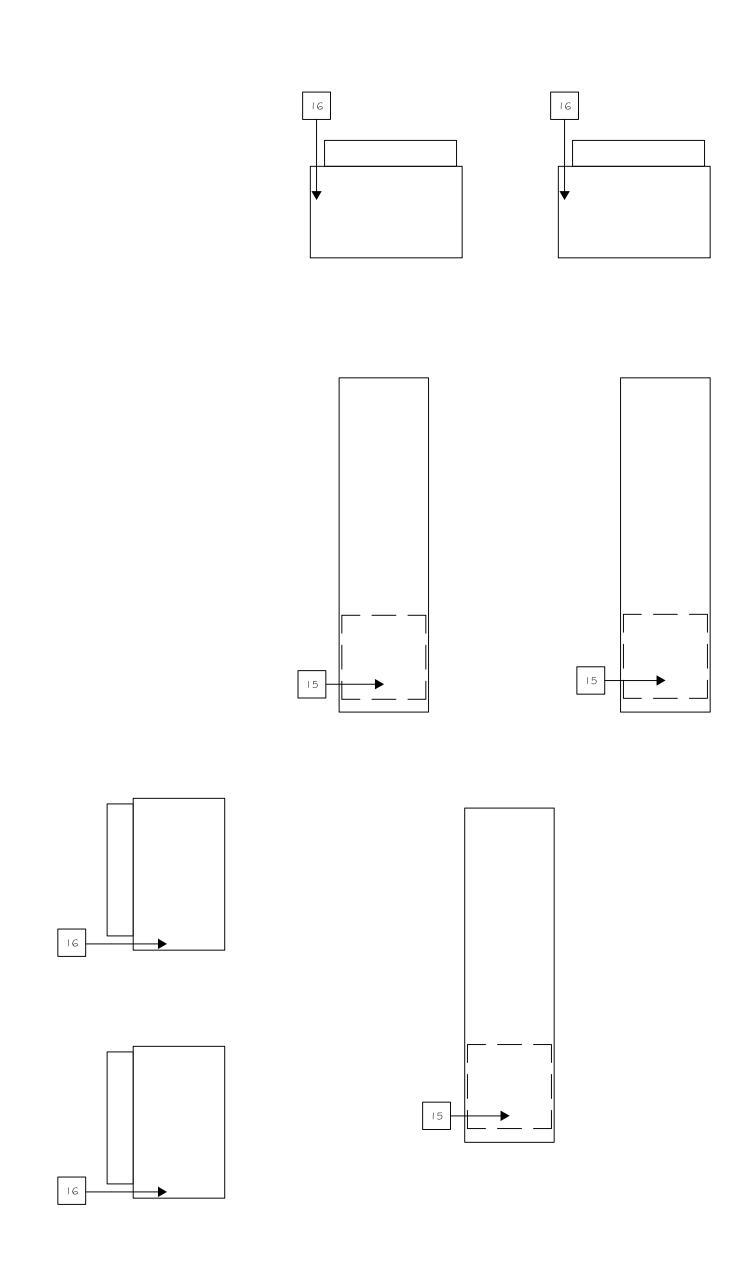
SHEET TITLE:

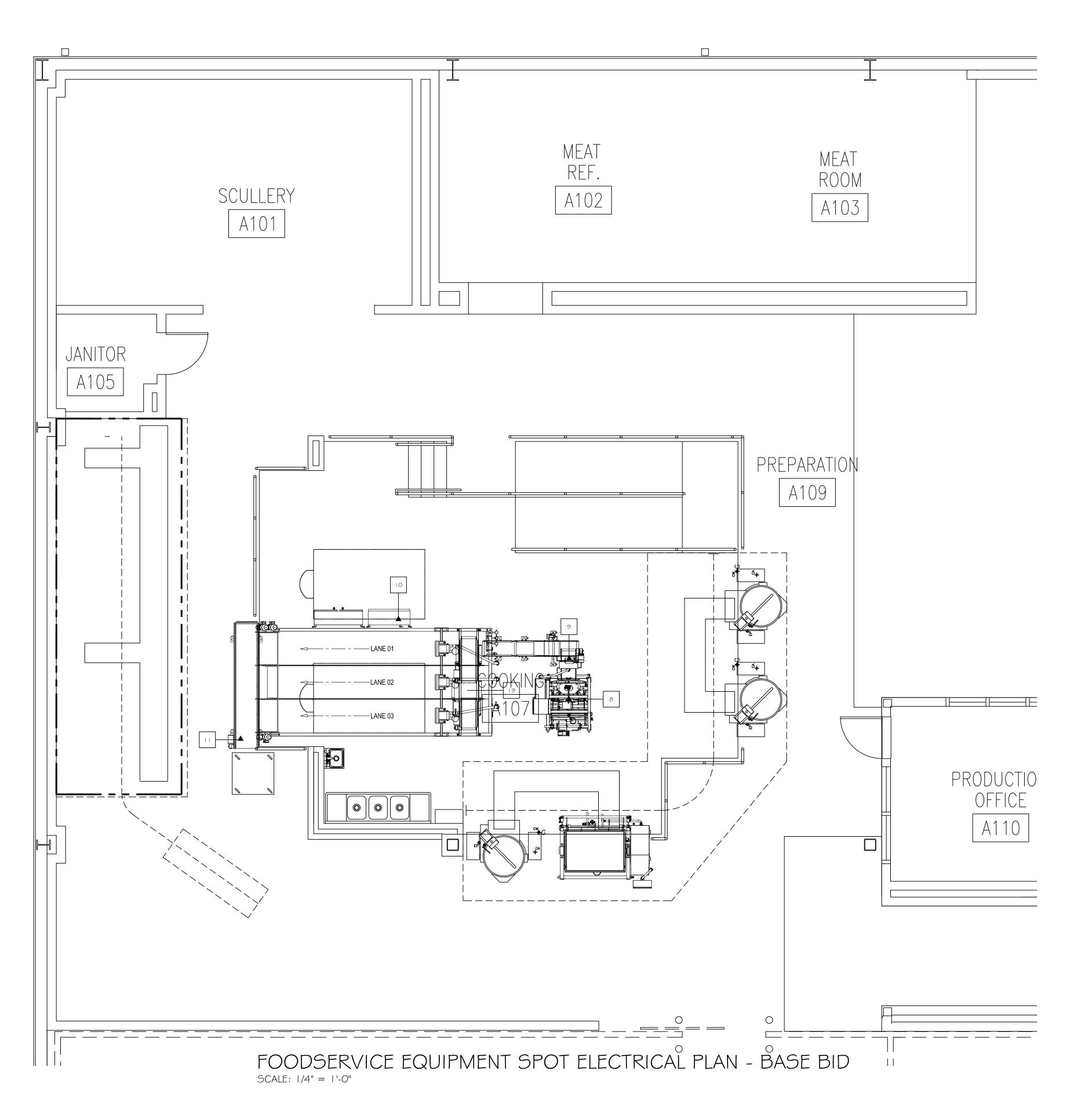
FOODSERVICE EQUIPMENT FLOOR PLAN - BASE BID

SHEET NUMBER:



	ELECTRICAL SCHEDULE										
CONN.			AMPS	K.W.	CONN.	HGT.					
NO.	VOLTAGE	PHASE	LOAD	LOAD	TYPE	A.F.F.	COMMENTS				
8	208	3	16		S.R.	D.F.A.	EXISTING LOCKING RECPT. TO BE RE-USED				
9	480	3	.9				POWERED THRU ITEM # I O LINEAR CHILLER. E.C. TO MAKE INNER CONNECTIONS AS REQUIRED				
10	480	3	14.5		S.C.	D.F.A.					
1.1	480	3					POWERED THRU ITEM #10 LINEAR CHILLER. E.C. TO MAKE INNER CONNECTIONS AS REQUIRED				
14	480	3	4		S.C.	D.F.A.					
							ELECT. CONTR. SHALL PROVIDE J-BOX AND DISCONNECT SWITCH AND CONNECT TO				
15	480	3	42.3		J.B.	1'-0"	CONDENSING UNITS - VERIFY LOCATION				
							ELECT. CONTR. SHALL PROVIDE J-BOX AND DISCONNECT SWITCH AND CONNECT TO				
16	480	3	34.7		J.B.	1'-0"	CONDENSING UNITS - VERIFY LOCATION				
19	480	3					POWERED THRU ITEM # I O LINEAR CHILLER. E.C. TO MAKE INNER CONNECTIONS AS REQUIRED				





STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ENGINEER OF RECOR

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/02/2022

CAD DWG FILE:
DRAWN BY: MDG
CHECKED BY: MDG
DESIGNED BY: MDG

SHEET TITLE:

FOODSERVICE EQUIPMENT SPOT ELEC. - BASE BID

SHEET NUMBER:



	STEAM SCHEDULE										
CONN.	STEAM	COND.					CONN.	HGT.			
NO.	SUPPLY	RETURN	LBS/HR				TYPE	A.F.F.	COMMENTS		
5514	"		858				5.C.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE		
CR14		"	858				5.C.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE		
							-				

	REFRIGERATION SCHEDULE										
CONN.	RL	RS	TOTAL			CONN.	HGT.				
NO.	LIQUID	SUCTION	MAX BTUH			TYPE	A.F.F.	COMMENTS			
RLIO	7/8"		570,000			S.C.					
RS10		1-3/8"				S.C.					
RL14	5/8"		230,000			S.C.					
RS14		1-3/8"				S.C.					
RL15	7/8"		133,600			S.C.					
RS15		1-5/8"				S.C.					
RL16	1-1/8"		178,962			S.C.					
RS16		2-1/8"				S.C.					

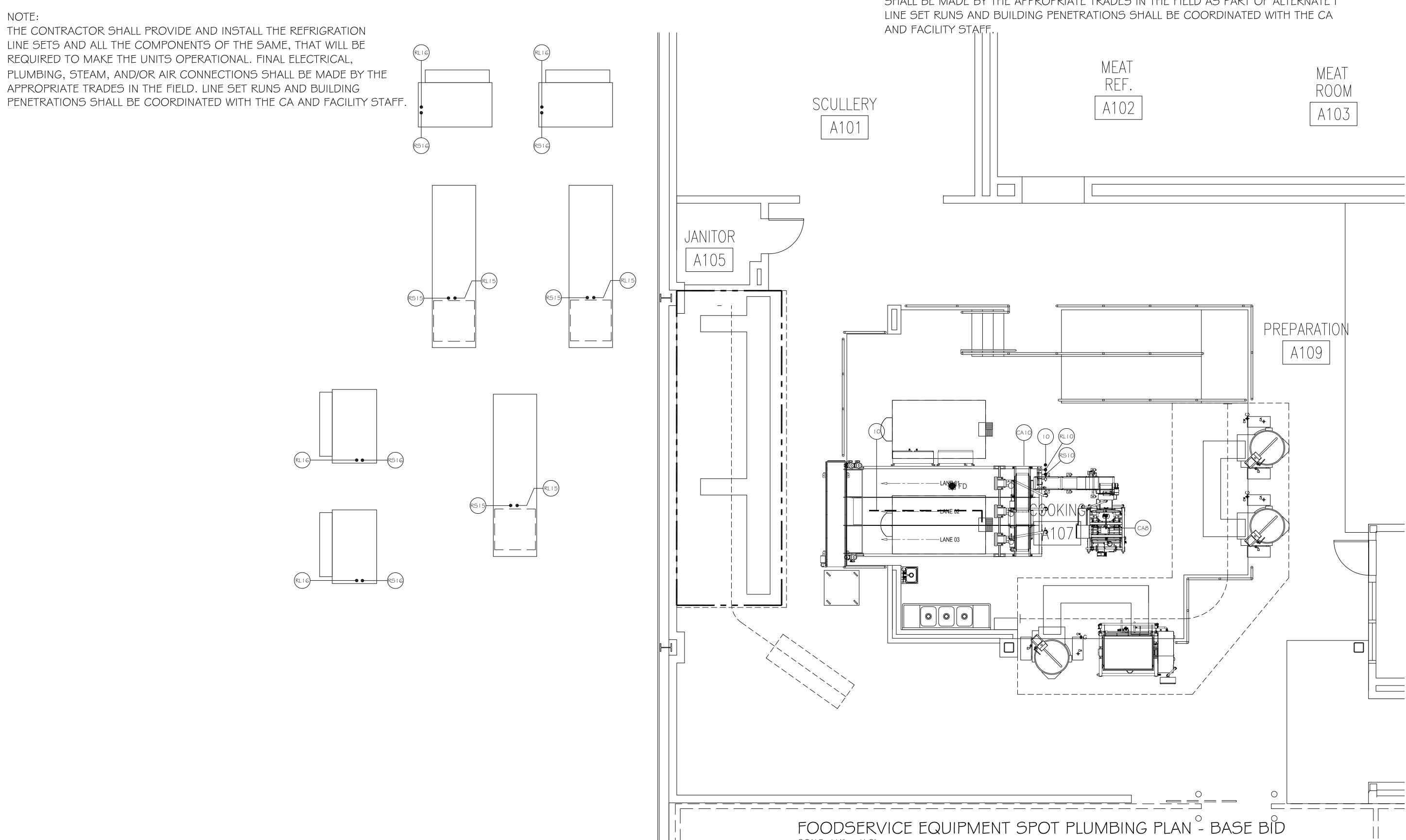
NOTE:

	PLUMBING SCHEDULE												
CONN.	HOT	COLD	DIRECT	IN-DIRECT	GAS	GAS	CONN.	HGT.					
NO.	WATER	WATER	WASTE	WASTE	SIZE	MBTU'S	TYPE	A.F.F.	COMMENTS				
10		1."					5.0.	D.F.A.					
				2-1/2"			F.S.		PLBG. CONTR. SHALL BRANCH FROM DR. ON EQUIP. TO EXISTING FLOOR SINK				
14	3/4"						5.0.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE				
		3/4"					5.0.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE				
				2"			F.S.		PLBG. CONTR. SHALL BRANCH FROM DR. ON EQUIP. TO EXISTING FLOOR SINK				

	COMPRESSED AIR SCHEDULE										
CONN.							CONN.	HGT.			
NO.	SIZE	CFM	PSI				TYPE	A.F.F.	COMMENTS		
CA8	1/2"	30	90						RE-USE EXISTING SUPPLY AND CONNECTIONS		
CAIO	1/4"	5	<i>8</i> 0								
CA14	1/4"	10	90						RE-USE EXISTING SUPPLY AND CONNECTIONS		
CA19	5/32"		90				·		SUPPLIED FROM ITEM #10 LINEAR CHILLER. CONTR. TO MAKE INNER-CONNECTIONS		

NOTE:

AS PART OF THE BASE BID THE CONTRACTOR SHALL PROVIDE AND INSTALL THE REFRIGERATION LINE SETS FOR THE NEW COOK TANKS AND ALL THE COMPONENTS OF THE SAME, THAT WILL BE REQUIRED TO MAKE THE UNITS OPERATIONAL. LINES SETS SHALL BE RUN TO THE INTERIOR OF THE BUILDING AND CAPPED. FINAL ELECTRICAL, PLUMBING, STEAM, AND/OR AIR CONNECTIONS SHALL BE MADE BY THE APPROPRIATE TRADES IN THE FIELD AS PART OF ALTERNATE I



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

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

ENGINEER OF RECORD:



4-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159





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

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 FACILITY # 9327029018

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ICCLIE DATE, 00/02/2022

ISSUE DATE: 09/02/2022

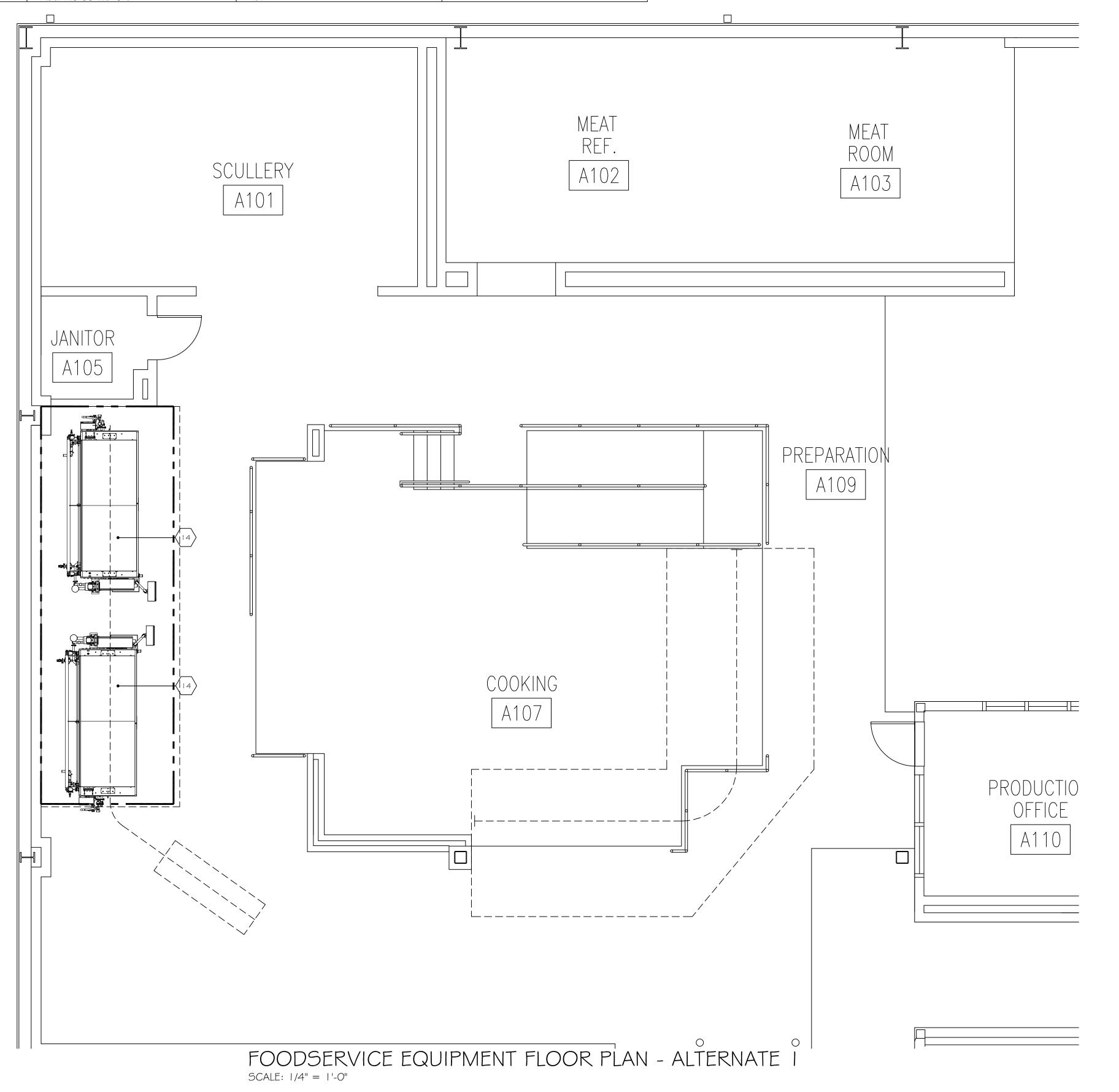
CHECKED BY: MDC DESIGNED BY: MDG

SHEET TITLE:

FOODSERVICE **EQUIPMENT SPOT** PLBG.. - BASE BID



	EQUIPMENT SCHEDULE										
ITEM NO.	QTY.	DESCRIPTION	BASE BID	ALTERNATE I							
	3	KETTLES	EXISTING TO REMAIN								
2		KETTLE	EXISTING TO REMAIN								
3		TRENCH DRAIN	EXISTING TO REMAIN								
4		TRENCH DRAIN	EXISTING TO REMAIN								
5		HOOD CONTROL PANEL	EXISTING TO REMAIN								
6		THREE COMPARTMENT SINK	EXISTING TO REMAIN								
7	1	HAND SINK	EXISTING TO REMAIN								
8	1	PUMP/FILL STATION	EXISTING TO REMAIN								
9	1	LIFT CONVEYOR	NEW								
10	1	LINEAR CHILLER	NEW - 16'-0" LONG 3 LANE LINEAR CHILLER								
11	1	TAKE OFF CONVEYOR	NEW - 9'-0" LONG								
12		PRODUCT CART	EXISTING BY OWNER								
13		TRENCH DRAIN	EXISTING TO REMAIN								
14	2	COOK TANKS		NEW - 200 GALLON UNITS							
15	3	REFRIGERATION SYSTEM - LINEAR CHILLER	NEW - 22 H.P. UNITS								
16	4	REFRIGERATION SYSTEM - COOK TANKS	NEW - 15 H.P. UNITS (2) PER COOK TANK								
17	0	SPARE NUMBER									
18	2	TUMBLE CHILLERS	REMOVED BY G.C. AS PART OF BASE BID								
19		INDEXING CONVEYOR	NEW								



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ENGINEER OF RECORD:



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ARCTURIS

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7027 FACILITY # 9327029018

REVISION:
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ICCLIE DATE: 00/02/2022

ISSUE DATE: 09/02/2022

CAD DWG FILE:

DRAWN BY: MDG

CHECKED BY: MDG

DESIGNED BY: MDG

SHEET TITLE:

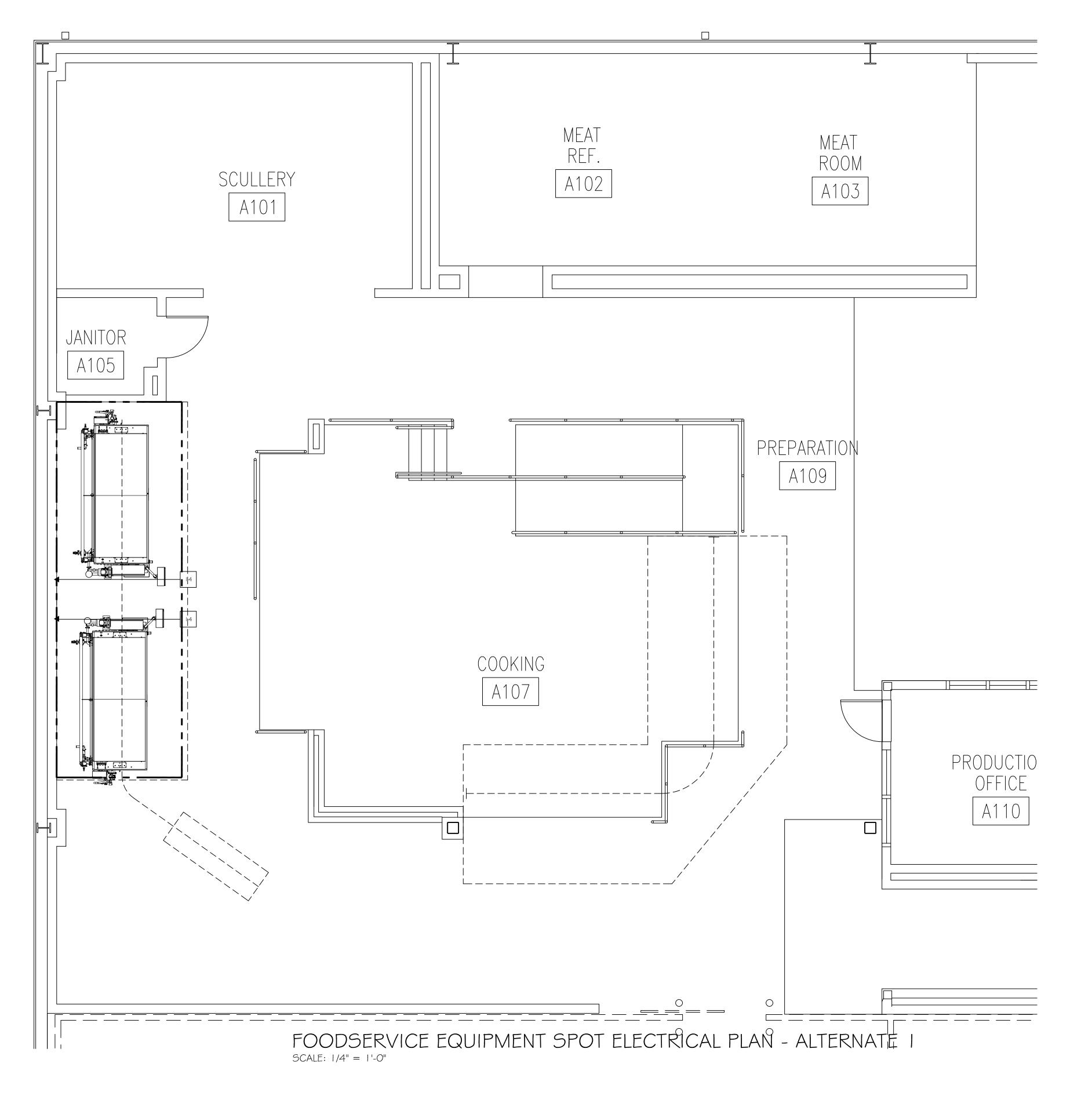
FOODSERVICE EQUIPMENT FLOOR PLAN - ALT. 1

SHEET NUMBER:



11 OF 25 SHEET

	ELECTRICAL SCHEDULE										
CONN.			AMPS	K.W.	CONN.	HGT.					
NO.	VOLTAGE	PHASE	LOAD	LOAD	TYPE	A.F.F.	COMMENTS				
8	208	3	16		S.R.	D.F.A.	EXISTING LOCKING RECPT. TO BE RE-USED				
9	480	3	.9				POWERED THRU ITEM # I O LINEAR CHILLER. E.C. TO MAKE INNER CONNECTIONS AS REQUIRED				
10	480	3	14.5		5.C.	D.F.A.					
1.1	480	3					POWERED THRU ITEM # I O LINEAR CHILLER. E.C. TO MAKE INNER CONNECTIONS AS REQUIRED				
14	480	3	4		5.C.	D.F.A.					
							ELECT. CONTR. SHALL PROVIDE J-BOX AND DISCONNECT SWITCH AND CONNECT TO				
15	480	3	42.3		J.B.	1'-0"	CONDENSING UNITS - VERIFY LOCATION				
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16	480	3	34.7		J.B.	1'-0"	CONDENSING UNITS - VERIFY LOCATION				
19	480	3	•	·	·		POWERED THRU ITEM # I O LINEAR CHILLER. E.C. TO MAKE INNER CONNECTIONS AS REQUIRED				



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ENGINEER OF RECORD:

HORNEF SHIFRIN

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/02/2022

CAD DWG FILE	:
DRAWN BY:	MDG
CHECKED BY:	MDG
DESIGNED BY:	MDG

SHEET TITLE:

FOODSERVICE EQUIPMENT SPOT ELEC. - ALT. 1

SHEET NUMBER:



12 OF 25 SHEET

STEAM SCHEDULE									
CONN.	STEAM	COND.					CONN.	HGT.	
NO.	SUPPLY	RETURN	LBS/HR				TYPE	A.F.F.	COMMENTS
5514	"		858	·			S.C.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE
CR14			858				S.C.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE

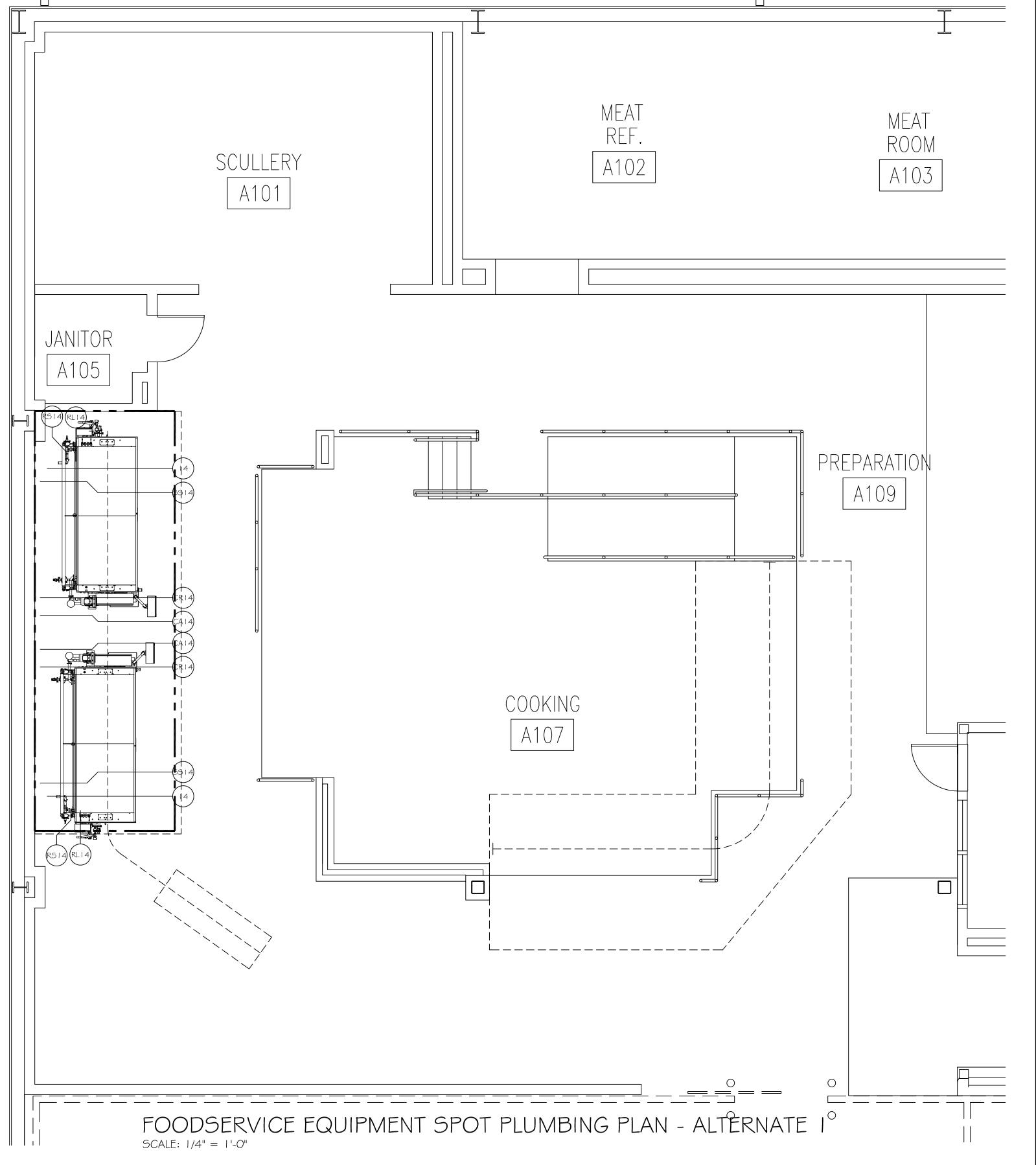
				REF	RIGE	RATI	ON S	SCHEDULE
CONN.	RL	RS	TOTAL			CONN.	HGT.	
NO.	LIQUID	SUCTION	MAX BTUH			TYPE	A.F.F.	COMMENTS
RLIO	7/8"		570,000			S.C.		
RS10		1-3/8"				5.C.		
RL14	5/8"		230,000			5.C.		
RS14		1-3/8"				S.C.		
RL15	7/8"		133,600			S.C.		
RS15		1-5/8"				5.C.		
RL16	1-1/8"		178,962			S.C.		
RS16		2-1/8"				S.C.		

NOTE:

THE CONTRACTOR SHALL PROVIDE AND INSTALL THE REFRIGRATION LINE SETS AND ALL THE COMPONENTS OF THE SAME, THAT WILL BE REQUIRED TO MAKE THE UNITS OPERATIONAL. FINAL ELECTRICAL, PLUMBING, STEAM, AND/OR AIR CONNECTIONS SHALL BE MADE BY THE APPROPRIATE TRADES IN THE FIELD. LINE SET RUNS AND BUILDING PENETRATIONS SHALL BE COORDINATED WITH THE CA AND FACILITY STAFF.

	PLUMBING SCHEDULE										
CONN.	HOT	COLD	DIRECT	IN-DIRECT	GAS	GAS	CONN.	HGT.			
NO.	WATER	WATER	WASTE	WASTE	SIZE	MBTU'S	TYPE	A.F.F.	F.F. COMMENTS		
10		1					5.0.	D.F.A.			
				2-1/2"			F.S.		PLBG. CONTR. SHALL BRANCH FROM DR. ON EQUIP. TO EXISTING FLOOR SINK		
14	3/4"						5.0.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE		
		3/4"					5.0.	D.F.A.	PLBG. CONTR. SHALL RE-USE EXISTING IF POSSIBLE		
				2"			F.S.		PLBG. CONTR. SHALL BRANCH FROM DR. ON EQUIP. TO EXISTING FLOOR SINK		
					_		_				

	COMPRESSED AIR SCHEDULE								
NNC.							CONN.	HGT.	
ΝΟ.	SIZE	CFM	PSI				TYPE	A.F.F.	COMMENTS
CA8	1/2"	30	90						RE-USE EXISTING SUPPLY AND CONNECTIONS
AIO	1/4"	5	80						
A14	1/4"	10	90						RE-USE EXISTING SUPPLY AND CONNECTIONS
A19	5/32"		90						SUPPLIED FROM ITEM # I O LINEAR CHILLER. CONTR. TO MAKE INNER-CONNECTIONS



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

ENGINEER OF RECORD:

OBNER SHIFRIN

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296
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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2022

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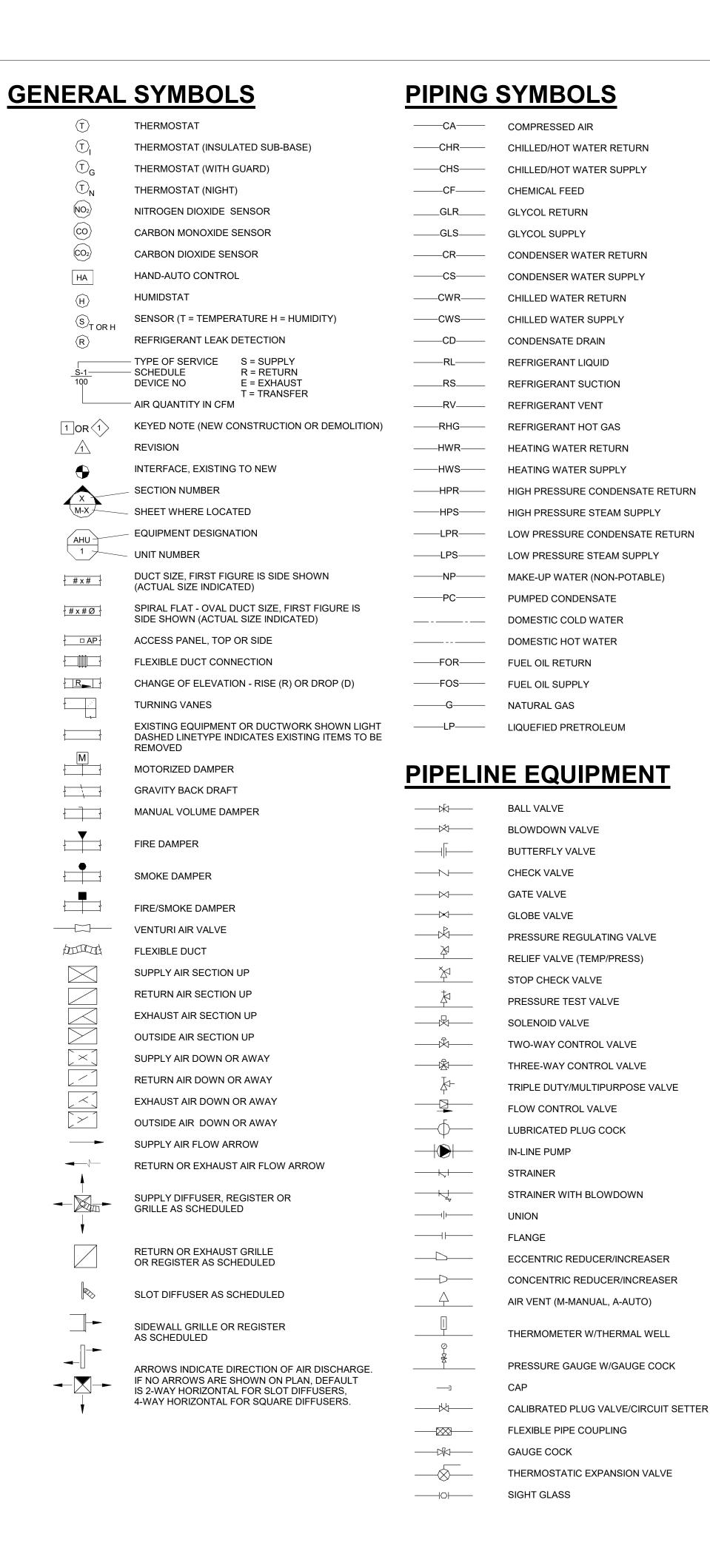
SHEET TITLE:

FOODSERVICE EQUIPMENT SPOT PLBG.. - ALT. 1

HEET NUMBER:

Q-FP-06

13 OF 25 SHEET



DIDELINE EQUIDMENT

PIPELIN	<u>E EQUIPMENT</u>
>	ELBOW DOWN
─	ELBOW UP
	TEE DOWN
─	TEE UP
	EXPANSION JOINT
×	PIPE ANCHOR
=	PIPE GUIDE
	PITCH DOWN IN DIRECTION OF ARROW
	PRESSURE/TEMPERATURE TEST PORT
	FLOW ARROW
- X - X - X - X -	EXISTING TO BE REMOVED
	WATER METER (FLOW TOTALIZING TYPE)
——[T]——	STEAM TRAP: IB = INVERTED BUCKET FT = FLOAT & THERMOSTATIC TD = THERMODYNAMIC DISK
FS OR TS	FLOW OR TEMPERATURE SWITCH

EQUIPMENT ABBREVIATIONS

AC	AIR CURTAIN
ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AHU	AIR HANDLING UNIT
_	
AP	ACCESS PANEL
AS	AUTOMATIC SPRINKLER
AV	AUTOMATIC VENT
В	BOILER
BFP	BACKFLOW PREVENTER
С	CHILLER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CO	CLEANOUT
CP	CONDENSER WATER PUMP
CRP	CONDENSATE RETURN PUMP
CRU	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CTF	COOLING TOWER FILTER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CVAV	CONSTANT VOLUME AIR VALVE
CWP	CHILLED WATER PUMP
DC	DUCT COIL
DFH	DEAERATING FEEDWATER HEATER
DG	DOOR GRILLE
DP	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ER	EXHAUST REGISTER
ERH	ELECTRIC RADIANT HEATER
ET	EXPANSION TANK
EVC	EVAPORATIVE COOLER
FC	FLEXIBLE DUCT CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLDR	FLOOR DRAIN
FS	FLOW SWITCH
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FLASH TANK
FTR	FIN-TUBE RADIATION
FTU	FAN TERMINAL UNIT
FVAV	FAN POWERED VARIABLE AIR VOLUME BOX
FVI	FLOOR VACUUM INLET
GP	GLYCOL PUMP
Н	HUMIDIFIER
HC	HEATING COIL
HEV	HOSE END VALVE
HPU	HEAT PUMP UNIT
HRP	HEAT RECOVERY LOOP PUMP
HRU	HEAT RECOVERY UNIT
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
LD	LINEAR DIFFUSER
MAU	MAKE-UP AIR UNIT
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MV	MANUAL VENT
OBD	OPPOSED BLADE DAMPER
PA	PIPE ANCHOR
PAC	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PCWP	PRIMARY CHILLED WATER PUMP
PG	PIPE GUIDE
PHC	PREHEAT COIL
PHWP	PRIMARY HEATING WATER PUMP
PHX	PLATE HEAT EXCHANGER
PI	PRESSURE INDICATOR
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
RF	RETURN FAN
RG	RETURN GRILLE
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
SAC	SURGICAL AIR COMPRESSOR
SCBA	SELF CONTAINED BREATHING APPARATUS
SCD	
	SMOKE CONTROL DAMPER
SCWP	SECONDARY CHILLED WATER PUMP
SD	SECONDARY CHILLED WATER PUMP SMOKE DAMPER
	SECONDARY CHILLED WATER PUMP

SECONDARY HEATING WATER PUMP

THERMOSTATIC MIXING VALVE

VARIABLE AIR VOLUME BOX

MANUAL VOLUME DAMPER

VIBRATION ELIMINATOR

SNOW MELTING SYSTEM

TERMINAL REHEAT COIL

SUPPLY REGISTER

SAFETY VALVE VENT

TRANSFER GRILLE

STERILIZER

UNIT HEATER

GENERAL ABBREVIATIONS

A ACC	AIR ACCESSORIES	LF LS	LIGHT SPACE
AFF	ABOVE FINISHED FLOOR	LVL	LEVEL
Al	ANALOG SIGNAL INPUT	LWT	LEAVING WATER TEMPERATURE
AO	ANALOG SIGNAL OUTPUT	MAN	MANUAL
APD	AIR PRESSURE DROP	MAX	MAXIMUM
APLV	APPLICATION PART LOAD VALUE	MBH	THOUSANDS BRITISH THERMAL UNITS PI
ARCH	ARCHITECTURE / ARCHITECT	MC	MECHANICAL CONTRACTOR
AUX AVG	AUXILIARY AVERAGE	MECH MFR	MECHANICAL MANUFACTURER
BDD	BACK DRAFT DAMPER	MIN	MINIMUM
BFC	BELOW FINISHED CEILING	MTL	METAL
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED OR NOISE CRITERIA
BI	BINARY SIGNAL INPUT	110	CONTEXT)
BM	BEAM	NIC	NOT IN CÓNTRACT
ВО	BINARY SIGNAL OUTPUT	NO	NORMALLY OPEN OR NUMBER (PER CON
BOB	BOTTOM OF BEAM	NOM	NOMINAL
BOD	BOTTOM OF DUCT	NPLV	NON-STANDARD PART LOAD VALUE
BOF	BOTTOM OF FOOTING	NPS	NOMINAL PIPE SIZE
BOP	BOTTOM OF PIPE	NPSH	NET POSITIVE SUCTION HEAD
BOT BS	BOTTOM BEAM SPACE	NTS OA	NOT TO SCALE OUTSIDE AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	OC	ON CENTER
CAP	CAPACITY	OD	OUTISDE DIAMETER
CAV	CONSTANT AIR VOLUME	OFCI	OWNER FURNISHED / CONTRACTOR INS
CCD	CONTROLLED CLOSURE DEVICE	OFOI	OWNER FURNISHED / OWNER INSTALLED
CFM	CUBIC FEET PER MINUTE	OT	OIL TRAP
CI	CAST IRON	PC	PLUMBING CONTRACTOR
CL	CENTERLINE	PD	PRESSURE DROP
CLG	COOLING DUCT (COLD DUCT)	PENT	PENTHOUSE
CONC	CONCRETE	PH	PHASE
COND	CONDENSATE	PNEU	PNEUMATIC
CONN CORR	CONNECTION CORRIDOR	PPH PRESS	POUNDS PER HOUR PRESSURE
CV	CONTROL VALVE	PRESS	PRESSURE REGULATING VALVE
DB	DRY BULB	PSI	POUNDS PER SQUARE INCH
DBA	A-WEIGHTED DECIBELS	PSIA	PSI ABSOLUTE
DEFL	DEFLECTION	PSIG	POUNDS PER SQUARE INCH GAUGE
DEG	DEGREES	QTY	QUANTITY
DEG F	DEGREES FAHRENHEIT	RA	RETURN AIR
DIA	DIAMETER	RAD	RADIATED
DIM	DIMENSION	RH	RELATIVE HUMIDITY
DISCH	DISCHARGE	RM	ROOM
DIV DN	DIVISION DOWN	RPM SA	REVOLUTIONS PER MINUTE
DTL	DETAIL	SAN	SUPPLY AIR SANITARY
DWG(S)	DRAWING(S)	SEC'N	SECTION
EA	EXHAUST AIR OR EACH (PER CONTEXT)	SENS	SENSIBLE
EAT	ENTERING AIR TEMPERATURE	SF	SQUARE FOOT
EC	ELECTRIC CONTRACTOR	SH	SENSIBLE HEAT
EER	ENERGY EFFICIENT RATIO	SHT	SHEET
EFF	EFFICIENCY	SOL	SOLENOID
ELEC	ELECTRIC	SP	STATIC PRESSURE
ELEV	ELEVATION	SPD SPT	STATIC PRESSURE DIFFERENTIAL
EQ ESP	EQUAL EXTERNAL STATIC PRESSURE	SQ	STATIC PRESSURE TRANSMITTER SQUARE
EWB	ENTERING AIR WET BULB TEMPERATURE	SST	STAINLESS STEEL
EWT	ENTERING WATER TEMPERATURE	STL	STEEL
EXH	EXHAUST	STM	STEAM
EXIST, EX	EXISTING	SW	SOFTENED WATER
FDC	FIRE DEPARTMENT CONNECTION	T&P	TEMPERATURE AND PRESSURE
FIN	FINISHED	TC	TEMPERATURE CONTROL
FLR	FLOOR	TD	THERMODYNAMIC
FPC	FIRE PROTECTION CONTRACTOR	TDH	TOTAL DYNAMIC HEAD
FPM FT	FEET PER MINUTE	TEMP	TEMPERATURE
FT-HD	FEET HEAD IN FEET	TOF TOS	TOP OF FOOTING TOP OF SLAB
GA	GAUGE	TOT	TOTAL
GAL	GALLONS	TSP	TOTAL STATIC PRESSURE
GALV	GALVANIZED	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UC	UNDER CUT DOOR
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
Н	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HS	HEAD	V	VOLTS
HORIZ	HORIZONTAL	VAC	VACUUM VACUUM BREAKER
HP HR	HORSEPOWER HOUR	VB VD	VACUUM BREAKER VOLUME DAMPER (MANUAL)
HK HTG	HEATING DUCT (HOT DECK)	VD VE	VIBRATION ELIMINATOR OR ISOLATOR
HVAC	HEATING DOCT (HOT DECK) HEATING, VENTILATION AND AIR CONDITION	VEL	VELOCITY
HW	HOT WATER	VERT	VERTICAL
HZ	HERTZ	VOL	VOLUME
ΙΕ	INVERT ELEVATION	VRF	VARIABLE REFRIGERANT FLOW
IN	INCH/INCHES	VTR	VENT THRU ROOF
INDIC	INDICATOR	W	WATT OR WIDTH (PER CONTEXT)
ISP	INTERNAL STATIC PRESSURE	W/	WITH
JS	JOIST SPACE	W/O	WITHOUT
KEC KW	KITCHEN EQUIPMENT CONTRACTOR KILOWATTS	WB WC	WET BULB WATER COLUMN
1 N V V	DIECHALIO	V V (,	VVAILIN OULUIVIIN

CENEDAL ADDDEVIATIONS MICHAEL L. PARSON, **GOVERNOR**

<u>GENI</u>	ERAL ABBREVIATIONS
LF	LINEAR FEET
LS	LIGHT SPACE
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
MAN	MANUAL
MAX	MAXIMUM THOUGANDS PRITISH THERMAL HARTS BER HOUR
MBH MC	THOUSANDS BRITISH THERMAL UNITS PER HOUR MECHANICAL CONTRACTOR
MECH	MECHANICAL CONTRACTOR MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
NC	NORMALLY CLOSED OR NOISE CRITERIA (PER
	CONTEXT)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER (PER CONTEXT)
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NPS	NOMINAL PIPE SIZE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA OC	OUTSIDE AIR ON CENTER
OD	OUTISDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
OT	OIL TRAP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PENT	PENTHOUSE
PH	PHASE
PNEU	PNEUMATIC
PPH	POUNDS PER HOUR
PRESS	PRESSURE
PRV	PRESSURE REGULATING VALVE
PSI PSIA	POUNDS PER SQUARE INCH
PSIG	PSI ABSOLUTE POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAD	RADIATED
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SEC'N	SECTION
SENS	SENSIBLE
SF	SQUARE FOOT
SH	SENSIBLE HEAT
SHT SOL	SHEET SOLENOID
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DIFFERENTIAL
CDT	CTATIC DECCLIDE TRANSMITTED

WATER COLUMN

WATER PRESSURE DIFFERENTIAL

WATER GAUGE

WEIGHT

WG

WPD

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

STATE OF MISSOURI

OF MISS

NUMBER PE-2007002812

Miles of walking

PROFESSIONAL SEAL

401 S. 18TH ST., STE. 400 SAINT LOUIS. MO 63103-2296

314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING

> CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2022

> > SAINT LOUIS, MO 63101 314.206.7100

ENGINEER OF RECORD:

09/02/2022

REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01

7029 SITE# FACILITY # 9327029018

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CAD DWG FILE: DRAWN BY: \overline{DE} CHECKED BY: CEW DESIGNED BY: DEL

SHEET TITLE:

SYMBOLS AND **ABBREVIATIONS**

SHEET NUMBER:

14 OF 25 SHEETS

09/02/2022

GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS. SPECIFICATIONS AND FIELD OBSERVATIONS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.

KILOWATTS

LEAVING AIR TEMPERATURE

LENGTH

POUND(S)

ΚW

LB(S)

2. ALL ELBOWS, FITTINGS, ETC. IN PIPING AND DUCTWORK ARE NOT NECESSARILY INDICATED TO CLEAR ALL EXISTING AND NEW JOB OBSTRUCTIONS.

SMS

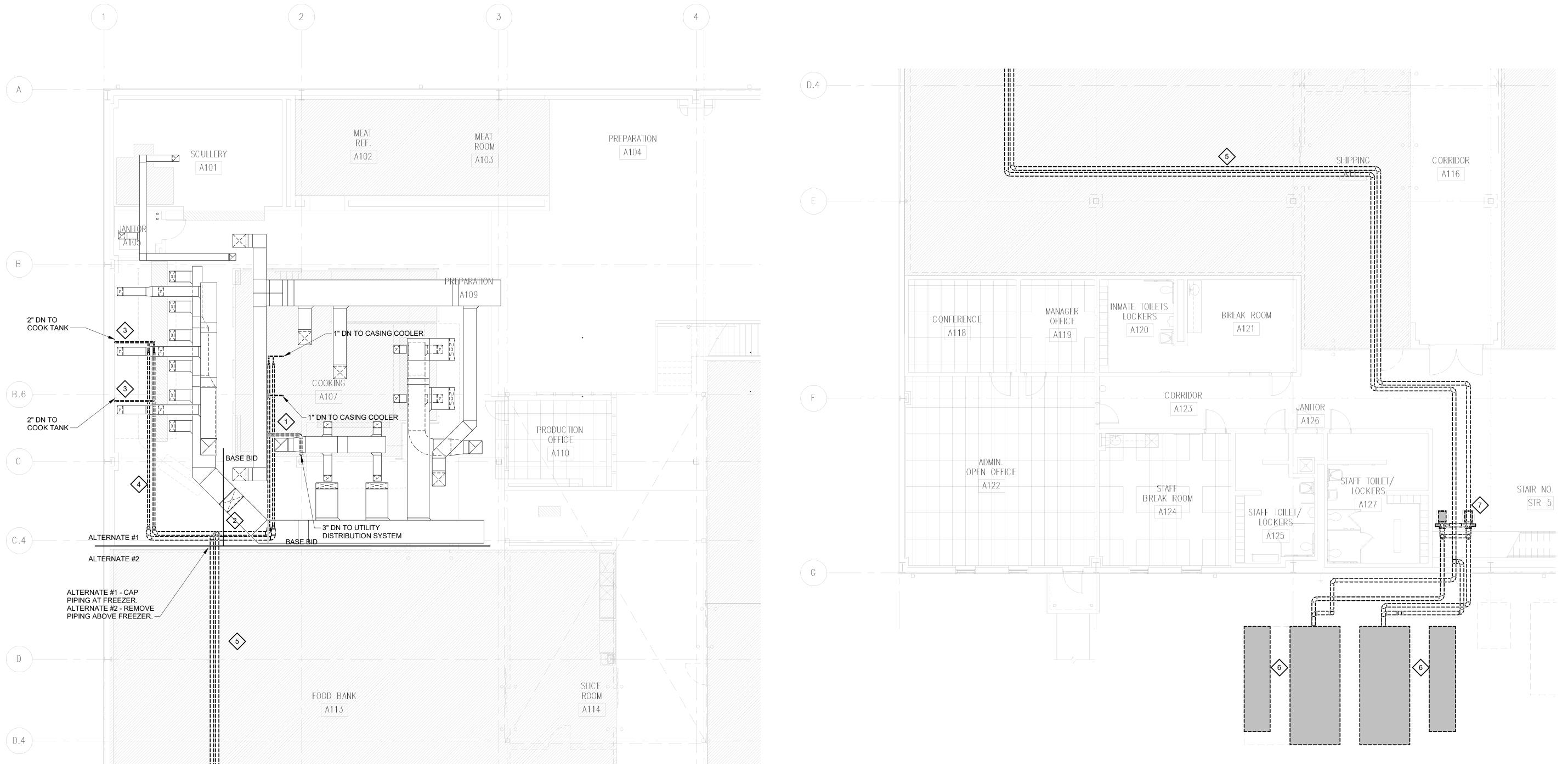
SVV

TMV

TRC

UH

- 3. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK, COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE.
- 4. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS, OR IS NOT SURE OF THEIR MEANING, HE/SHE SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION, PRIOR TO SUBMITTING HIS BID, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
- 5. ALL CEILING DEVICES REMOVED FOR CEILING REMOVAL SHALL BE PUT BACK IN ORIGINAL LOCATION WHEN CEILING IS REPAIRED.
- 6. COORDINATE SCHEDULE FOR HOOKUPS TO EXISTING SYSTEM AND REMOVAL OR RELOCATION OF EQUIPMENT WITH THE OWNER. PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
- 7. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
- 8. TAKE DOWN AND REINSTALL EXISTING CEILINGS IN ALL AREAS WHERE MECHANICAL WORK IS INDICATED AND EXISTING CEILINGS REMAIN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS WHERE EXISTING CEILINGS REMAIN. REPLACE CEILING TILES DAMAGED
- 9. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHUS, CUS, ETC. ON 4" MINIMUM HEIGHT CONCRETE HOUSEKEEPING PAD. EXTEND PAD MINIMUM 4" BEYOND EQUIPMENT AT ALL SIDES. REFER TO STRUCTURAL PLANS FOR LOCATION.
- 10. PATCH ALL WALLS, FLOORS, CEILINGS AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.
- 11. REFRIGERANT PIPING TO BE SIZED BY KITCHEN EQUIPMENT VENDOR
- 12. ROUTE CONDENSATE PIPING FROM ALL EQUIPMENT TO NEAREST FLOOR DRAIN UNLESS NOTED OTHERWISE ON THE FLOOR PLANS. DRAINS SHALL BE DWV COPPER IN ALL RETURN AIR PLENUMS AND WHERE HIDDEN IN INACCESSIBLE WALLS, FLOORS, CEILINGS, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE.



1 MECHANICAL FLOOR PLAN NORTH - DEMOLITION

M-101 1/8" = 1'-0"

2 MECHANICAL FLOOR PLAN SOUTH- DEMOLITION ALTERNATE #2 M-101 1/8" = 1'-0"

SHEET DEMO KEYED NOTES BASE BID

- 1 REMOVE EXISTING CHILLED WATER PIPING IN CEILING AND DOWN TO EQUIPMENT. REMOVE ALL ASSOCIATED HANGERS, BRACKETS, SUPPORTS, ETC.
- 2 PROVIDE BYPASS PIPING AND BALANCING VALVE BETWEEN SUPPLY AND RETURN PIPING AT THIS LOCATION. BALANCE TO SUM OF EXISTING FLOW THOUGH THE EXISTING BRANCH.

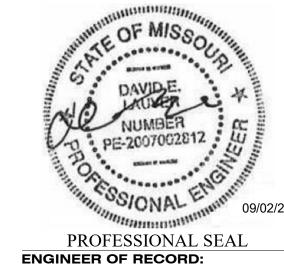
SHEET DEMO KEYED NOTES - ALTERNATE #1

REMOVE EXISTING STEAM AND CONDENSATE PIPING FROM EXISTING TANK AS REQUIRED FOR REMOVAL. RECONNECT TO NEW TANK. MODIFY PIPING AS REQUIRED TO ACCOMODATE NEW CONNECTION LOCATIONS. REMOVE EXISTING CHILLED WATER PIPING IN CEILING AND DOWN TO EQUIPMENT. REMOVE ALL ASSOCIATED HANGERS, BRACKETS, SUPPORTS, ETC.

SHEET DEMO KEYED NOTES - ALTERNATE #2

- 5 REMOVE EXISTING CHILLED WATER PIPING AND ALL ASSOCIATED HANGERS,
- BRACKETS, SUPPORTS, ETC.
- 6 REMOVE EXISTING ICE BUILDER AND ASSOCIATED CONDENSING UNIT. REMOVE ALL ASSOCIATED PIPING AND CONTROLS. PAD AND SHED SHALL REMAIN.
- 7 REMOVE EXISTING CHILLED WATER PUMPS. REMOVE ALL ASSOCIATED CONTROLS AND PIPING. REMOVE DOMESTIC WATER MAKEUP WATER PIPING BACK TO MAIN AND

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



HORNEF SHIFRIN

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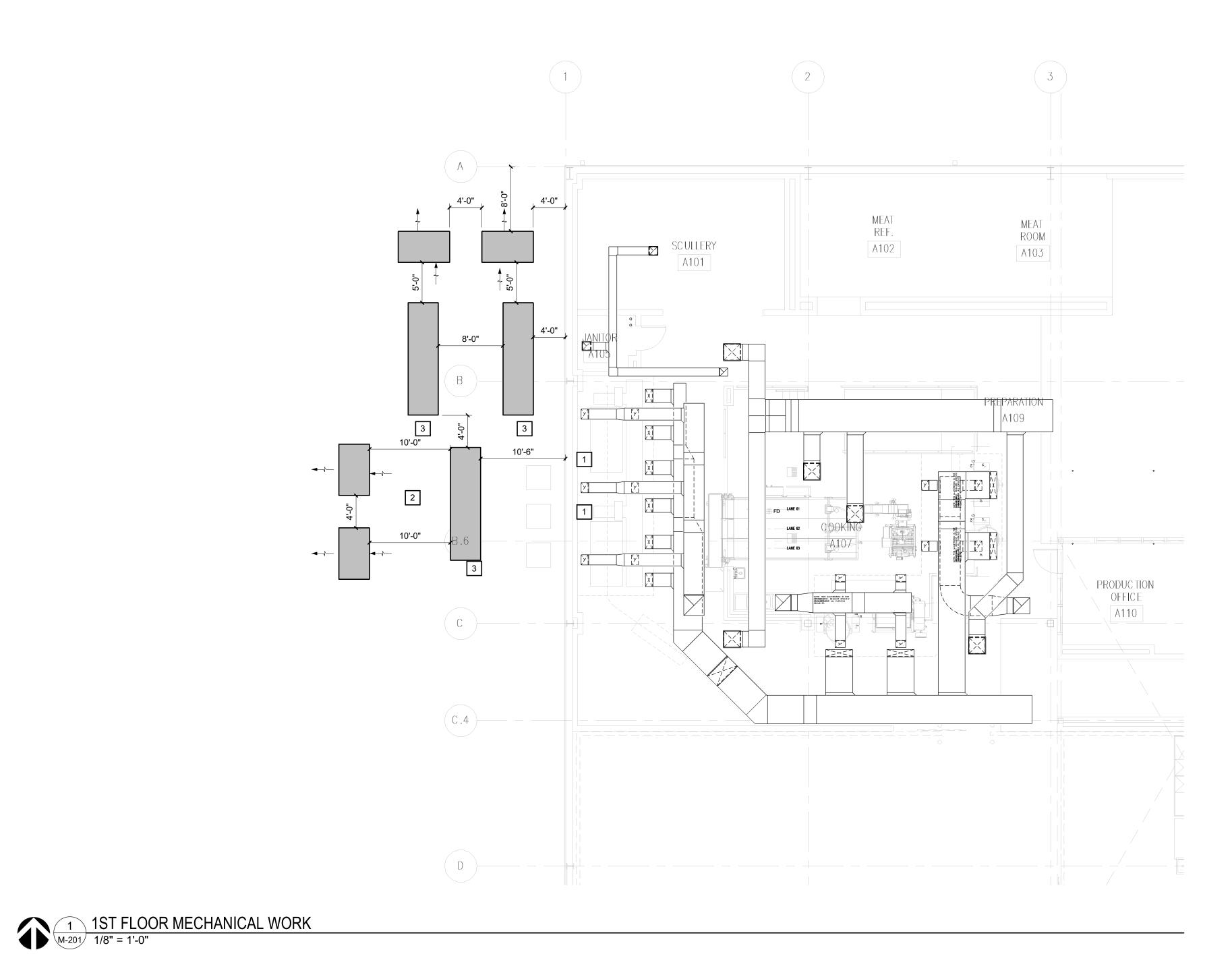
MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

09/02/2022

M-101

PRE-DEMOLITION TESTING AND BALANCING:
IF ALTERNATE #1 IS NOT ACCEPTED, PRIOR TO DEMOLITION OF ANY
EQUIPMENT, MEASURE GYLCOL WATER FLOW THROUGH ALL EXISTING
PIECES OF KITCHEN EQUIPMENT. RECORD FLOW AND USE FOR
REBALANCING OF SYSTEM AFTER DEMOLITION OF PIPING AND EQUIPMENT
AS PART OF BASE BID.



SHEET KEYED NOTES

RECONNECT STEAM AND CONDENSATE PIPING TO NEW TANK. MODIFY EXISTING PIPING AS REQUIRED TO MAKE NEW CONNECTIONS. - ALTERNATE #1 LOCATIONS OF NEW CONDENSING UNITS FOR FOOD SERVICE EQUIPMENT, REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR CONNECTION REQUIREMENTS. REFER TO STRUCTURAL DRAWINGS FOR PAD AND BOLLARD REQUIREMENTS.

ORIENT SO COMPRESSORS ARE ON THIS END OF UNIT.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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MECHANICAL **NEW WORK**

SHEET NUMBER:

M-201

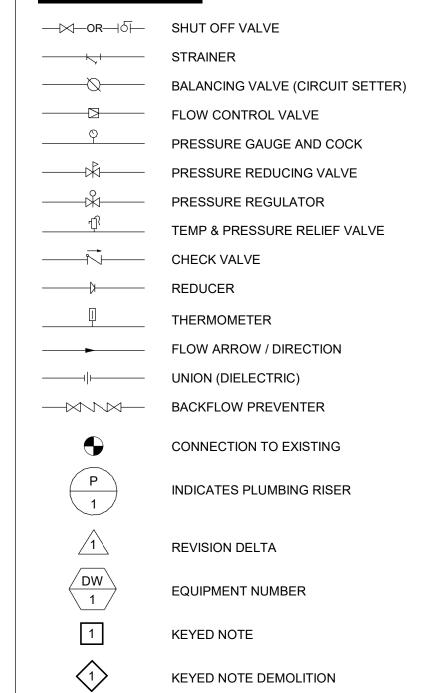
GENERAL NOTES:

- 1. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE PLUMBING WORK, COORDINATION BETWEEN OTHER TRADES IS OF THE UTMOST IMPORTANCE.
- 2. DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF FIXTURES, EQUIPMENT AND PIPING SYSTEMS. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE INTO ACCOUNT MANY DESIGN CONSIDERATIONS. SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
- 3. THIS CONTRACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF PLUMBING PIPING.
- 4. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS, EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM.
- 5. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, HE/SHE SHOULD OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
- 6. CUTTING, REMOVING AND PATCHING OF EXISTING FLOOR(S), WALL(S), ROOF ETC., FOR PLUMBING AND FIRE PROTECTION PIPING INSTALLATION SHALL BE BY THIS CONTRACTOR. EXCAVATION, REMOVAL, AND BACKFILL FOR PLUMBING PIPING INSTALLATION BELOW GRADE SHALL BE BY THIS CONTRACTOR.
- 7. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR SHALL INCLUDE, BUT NOT LIMITED TO, ANY EXISTING WALL, CEILING OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING OR PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS
- 8. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT AND MATERIALS REMOVED. HOWEVER ALL FIXTURES, EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR.

PLUMBING

ss	SANITARY PIPING
SD	STORM DRAIN
OD	OVERFLOW DRAIN
	VENT (V)
CW	DOMESTIC COLD WATER (DCW)
HW	DOMESTIC HOT WATER (DHW)
——— HWR ———	DOMESTIC HOT WATER RETURN (DHWR)
D	INDIRECT DRAIN OR CONDENSATE
TW	TEMPERED WATER
TWR	TEMPERED WATER RECIRCULATING
NP	NON POTABLE WATER
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
CA	COMPRESSED AIR

SYMBOLS



ABBREVIATIONS

PHYSICALLY CHALLENGED

ABOVE FINISHED FLOOR

ACCESS PANEL

BOTTOM

CENTERLINE

CAST IRON

CLEANOUT

DOWN

VENT

WASTE

VOLUME

VENT THRU ROOF

WITH / WITHOUT

ELEVATION

CHECK VALVE

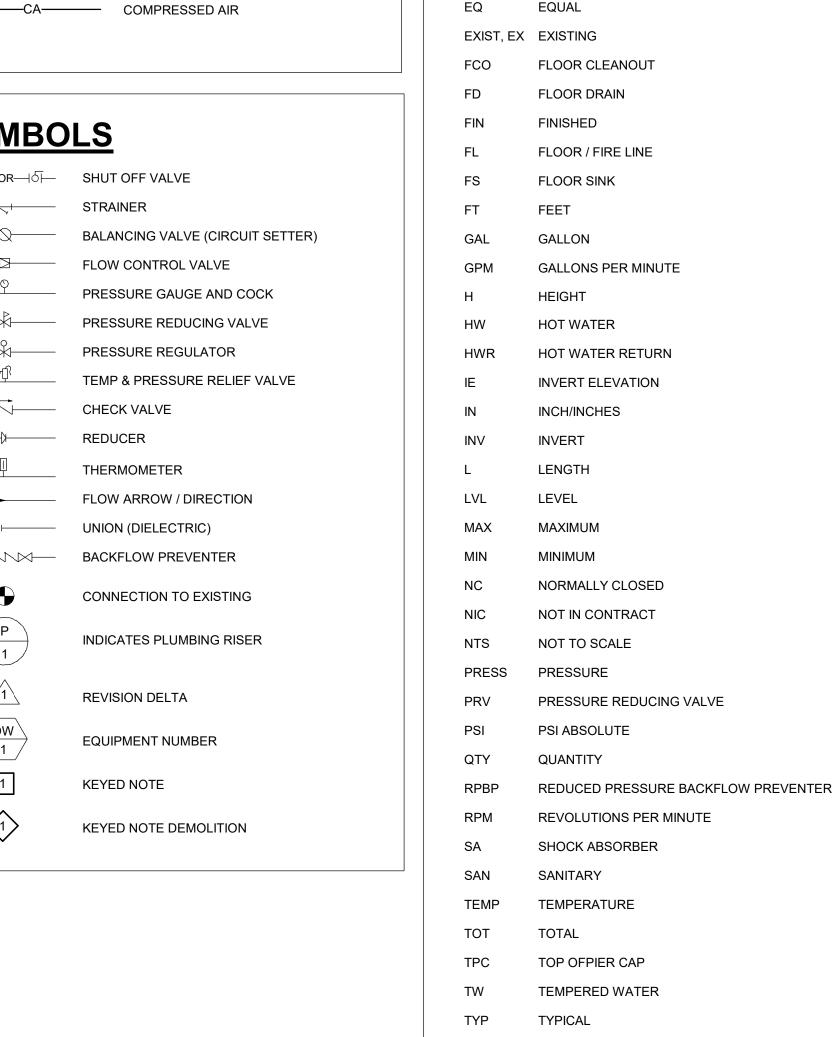
DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC HOT WATER RETURN

CO

ss	SANITARY PIPING
SD	STORM DRAIN
OD	OVERFLOW DRAIN
	VENT (V)
CW	DOMESTIC COLD WATER (DCW)
HW	DOMESTIC HOT WATER (DHW)
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D	INDIRECT DRAIN OR CONDENSATE
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TWR	TEMPERED WATER RECIRCULATING
NP	NON POTABLE WATER
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
CA	COMPRESSED AIR



STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2022



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

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 7029 SITE# FACILITY # 9327029018

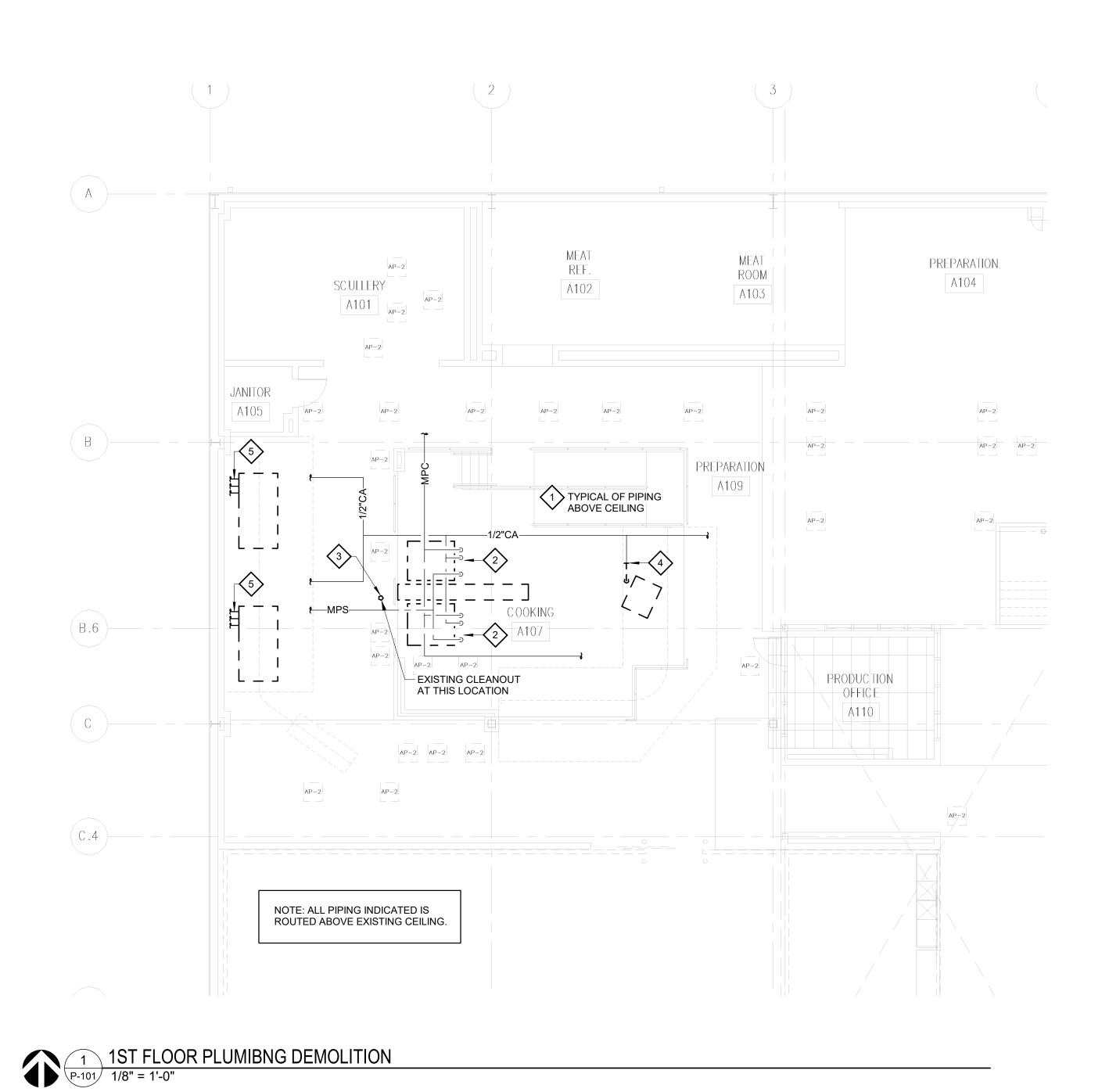
REVISION: DATE: REVISION: DATE: **REVISION:** DATE: ISSUE DATE: 09/02/2022

CAD DWG FILE:
DRAWN BY: GJW
CHECKED BY: DEL DESIGNED BY: GJW

SHEET TITLE:

PLUMBING SYMBOLS & **ABBREVIATIONS**

SHEET NUMBER:



P101 DEMO KEYED NOTES - BASE BID

- 1 REMOVE PIPING DROPS AND PIPING ABOVE CEILING BACK TO MAINS. CONNECT AT NEW
- EQUIPMENT AS REQUIRED. SEE NEW WORK PLAN FOR RECONNECTION.

 2 DISCONNECT EXISTING DOMESTIC COLD WATER, STEAM, AND COMPRESSED AIR FROM EXISTING EQUIPMENT, SEE NEW WORK PLAN FOR RECONNECTION. REMOVE ALL PIPING
- NOT REUSED BACK TO MAIN AND CAP AIRTIGHT.

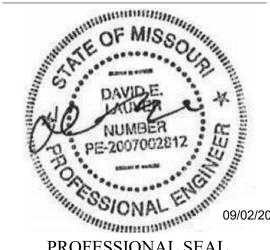
 REMOVE EXISTING CLEANOUT AND RELOCATE PER NEW WORK PLAN TO ACCOMODATE NEW EQUIPMENT DIMENSIONS. EXACT ROUTING OF EXISTING SANITARY PIPING BELOW GRADE IS UNKNOWN. THIS CONTRACTOR SHALL VERIFY ROUTING AND RELOCATE
- CLEANOUT AS REQUIRED TO PROPERLY SERVICE SANITARY PIPING SYSTEM.

 REMOVE COMPRESSED AIR PIPING BACK TO THIS LOCATION AND TEMPORARILY CAP. SEE NEW WORK PLAN FOR CONNECTION AND REROUTING TO NEW BAGGER LOCATION.

P101 DEMO KEYED NOTES-ALTERNATE #1

DISCONNECT EXISTING DOMESTIC HOT AND COLD WATER AND COMPRESSED AIR FROM EXISTING EQUIPMENT, SEE NEW WORK PLAN FOR RECONNECTION.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



PROFESSIONAL SEAL ENGINEER OF RECORD:

SHIFRIN

401.5. 18TH ST. STE 400 SAINT LOUIS MO 62403 2206

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2022

ARCTURIS

701 MARKET STREET, SUITE 1300
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OFFICE OF
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REPLACE ICE BUILDERS BUILDING #13

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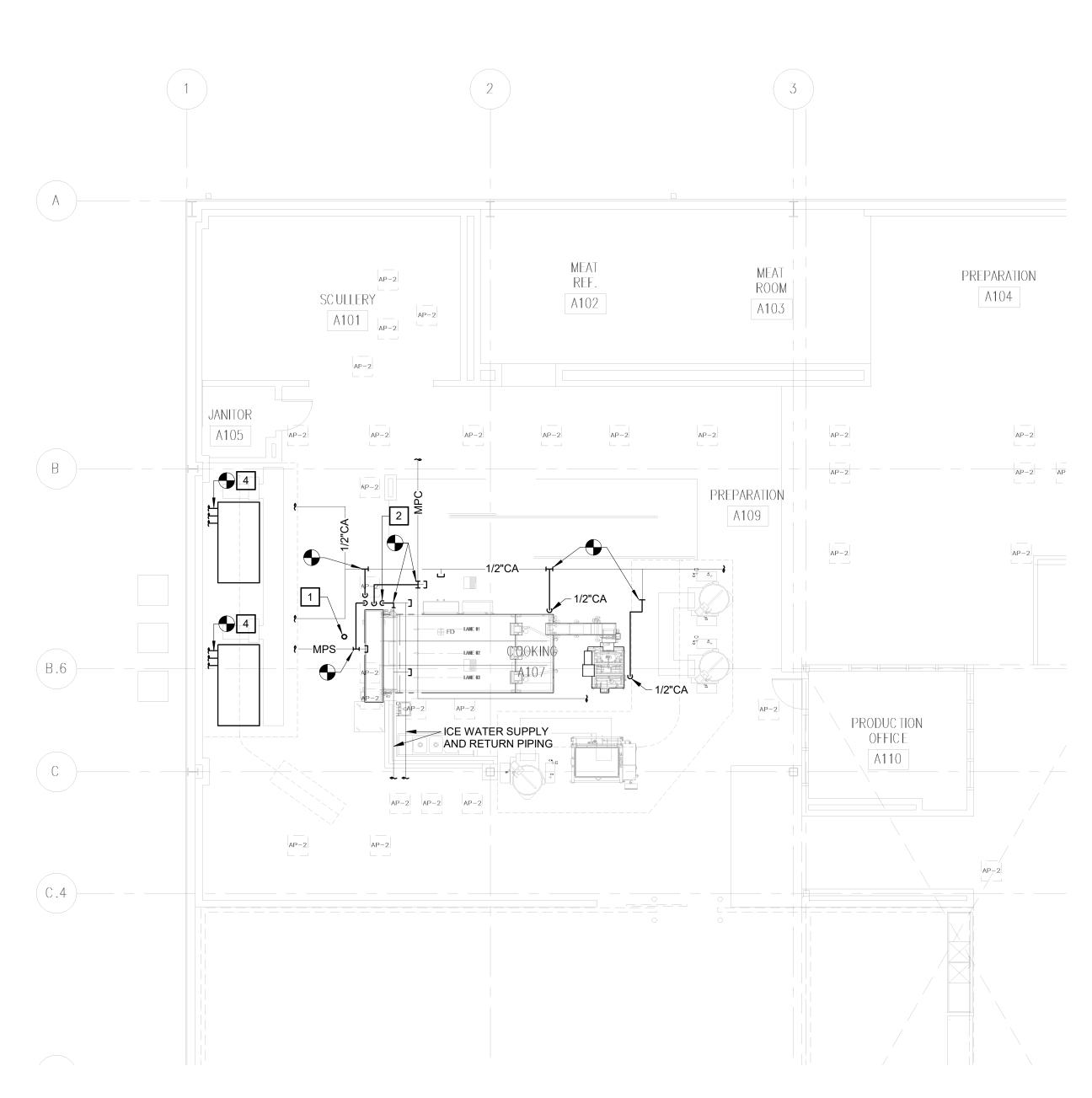
CAD DWG FILE:
DRAWN BY: GJW
CHECKED BY: DEL
DESIGNED BY: GJW

SHEET TITLE:

PLUMBING PLAN
- DEMOLITION

SHEET NUMBER:

P-101



1 1ST FLOOR PLUMBING NEW WORK
P-201 1/8" = 1'-0"

P201 KEYED NOTES

1 REINSTALL EXISTING CLEAN OUT AT NEW LOCATION. EXACT LOCATION MAY VARY DEPENDING ON EXISTING ROUTING OF SANITARY PIPING BELOW GRADE.

2 RECONNECT EXISTING DOMESTIC COLD WATER, AND COMPRESSED AIR PIPING TO NEW EQUIPMENT AT THIS LOCATION.



RECONNECT EXISTING UTILITIES AT NEW EQUIPMENT.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



HORNER OF RECORD:

SHIFRIN

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ISSUE DATE: 09/02/2022

CAD DWG FILE:
DRAWN BY: GJW
CHECKED BY: DEL
DESIGNED BY: GJW

SHEET TITLE:

PLUMBING PLAN
- NEW WORK

SHEET NUMBER:

P-201

ELECTRICAL LEGEND

TONS ARE USED

<u>LIGHT FIXTURES</u>		FIRE ALARM		
A1b	2x4 FLUORESCENT FIXTURE A = FIXTURE TYPE 1 = CIRCUIT NUMBER b = SWITCH LEG	F	COMBINATION AUDIBLE VISUAL FIRE ALARM (90" A.F.F. MINIMUM 6" BELOW CEILING) A = 110 cd B = 75 cd C = 15/75 cd	
	LIGHT FIXTURE ON EMERGENCY			
	LIGHT FIXTURE WITH NIGHTLIGHT	F	FIRE ALARM HORN (90" A.F.F.)	
	2x2 FLUORESCENT FIXTURE	FO	FIRE ALARM BELL 1' BELOW CEILING CH = CHIME	
	1x4 FLUORESCENT FIXTURE		G = GONG	
	6"x4' FLUORESCENT FIXTURE		VISUAL FIRE ALARM (90" A.F.F. MINIMUM 6" BELOW CEILING)	
	WALL MOUNTED FLOURESCENT	F	A = 110 cd B = 75 cd	
├	STRIP FLUORESCENT FIXTURE		C = 15/75 cd	
00	TRACK LIGHTING		CEILING MOUNTED COMBINATION AUDIBLE VISUAL FIRE ALARM	
	1x1 FLUORESCENT FIXTURE	E	D = 95 cd E = 60 cd	
0	DOWNLIGHT FIXTURE		F = 30 cd	
•	DOWNLIGHT FIXTURE ON EMERGENCY	<u> </u>	CEILING MOUNTED VISUAL FIRE ALARM D = 95 cd	
~	WALL WASH FIXTURE		E = 60 cd F = 30 cd	
Ю	WALL MOUNTED FIXTURE	FAC P	FIRE ALARM CONTROL PANEL	
Î	GROUND MOUNTED FLOOD LIGHT	FAA	FIRE ALARM ANNUNCIATOR (60" A.F.F.)	
•	WALL MOUNTED FLOOD LIGHT	FDC	DIGITAL COMMUNICATOR	
0-0	POLE LIGHT FIXTURE	DH	DOOR HOLDER	
\odot	BOLLARD	F	MANUAL PULL STATION (48" A.F.F.)	
•	BOLLARD ON EMERGENCY	FD	DUCT DETECTOR	
\bigotimes	EXIT SIGN (ON EMERGENCY) WITH DIRECTIONAL ARROW	FDT	DUCT DETECTOR TEST SWITCH	
HXI	WALL MOUNTED EXIT SIGN	FH	HEAT DETECTOR	
	EMERGENCY LIGHT PACK W/ BATTERY (96" A.F.F.)	FS	SMOKE DETECTOR	
00	EMERGENCY LIGHT (96" A.F.F.)	B	FIRE SUPPRESSION ALARM	
		< F	FIREMANS TELEPHONE OUTLET	
		FS	FIRE ALARM FLOW SWITCH	
		TS	FIRE ALARM TAMPER SWITCH	
		MM	FIRE ALARM MONITOR MODULE	
		СМ	FIRE ALARM CONTROL MODULE	
		PIV	POST INDICATING VALVE	

	NOT ALL SYMBOLS AND A	BBREVIATI
CONDU	<u>IIT</u>	COMMU
	CONDUIT EXPOSED	CCTV
	CONDUIT CONCEALED IN FLOOR/BELOW SLAB/BELOW	MON
	GRADE	MULT
	CONDUIT CONCEALED IN WALL OR CEILING	COMP
—Т—	TELEPHONE CONDUIT	DC
—CATV—	, ELE World World St.	DVR
•	CONDUIT DOWN	DAA
	CONDUIT UP	H
	CONDUIT SLEEVE INSULATED BUSHING EACH END	В
	WIRE IN CONDUIT LEFT TO RIGHT 1 GROUND, 1 NEUTRAL, 3 HOTS	C
A	HOME RUN A = PANEL A	DC
<u>A</u> 1,3,5	1,3,5 = CIRCUITS 1,3,5	B
	CABLE TRAY	EO
A	FEEDER A	ES
<u>SWITCH</u>	HES & SENSORS	G
AF	AIR FLOW SWITCH	(C)>
(A)	AQUASTAT	НМ
CD	CARBON DIOXIDE/MONOXIDE DETECTOR	
-(C D)	WALL MOUNTED CARBON DIOXIDE/MONOXIDE DETECTOR	IHC
		LIM
EP	ELECTRIC/PNEUMATIC SWITCH	
F	FIRESTAT	K
HOA	HAND/OFF AUTOMATIC SELECTOR SWITCH	MC
(H)	HUMIDISTAT	ML
IC	IRRIGATION CONTROL	M
LS	LIMIT SWITCH	M
TL	LINE VOLTAGE THERMOSTAT (54" A.F.F.)	HM OM
MGA	MEDICAL GAS ALARM	ОМ
†	OCCUPANCY SENSOR SINGLE DIRECTION	M
♦	OCCUPANCY SENSOR DUAL DIRECTION	(PA)
*	OCCUPANCY SENSOR WALL MOUNTED	PA
•	OCCUPANCY SENSOR POWER PACK	PM
PC	PHOTOCELL	PBS
\Box	PILOT LIGHT. LETTER INDICATES COLOR B = BLUE	PROX
	G = GREEN R = RED	PAC
PIV	POST INDICATOR VALVE	•
PS	PRESSURE SWITCH	e e
RA	REFRIGERATOR ALARMS	⟨P⟩
(SV)	SOLENOID VALVE	C R
	TOGGLE SWITCH SINGLE POLE (48" A.F.F.) a = SWITCH CONTROL (LOWER CASE LETTERS)	SC P
	3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH	SERVER
\$ a	D = DIMMER SWITCH K = KEYED OPERATION SWITCH	SEC
	OC = OCCUPANCY SENSOR SWITCH WITH OFF/AUTO OVERRIDE	(S)
	VS = VACANCY SENSOR SWITCH WP = WEATHERPROOF SWITCH	(OS)
\$ LV	LOW VOLTAGE SWITCH (48" A.F.F.)	S
\$ P	SWITCH WITH PILOT LIGHT ON WHEN SWITCH IS ON (48" A.F.F.)	HS
\$т	TIMER SWITCH (48" A.F.F.)	
\$ m	MANUAL MOTOR STARTER	
S	DATA LINE SWITCH (48"A.F.F.)	
COMMU	JNICATIONS & SECURITY	
AC	ACCESS CONTROL HEAD-END	
ARA	AREA OF RESCUE ANNUNCIATOR	•
AR	AREA OF RESCUE ASSISTANCE PUSH BUTTON	_
	CAMERA	
CPS	CAMERA POWER SUPPLY	

© CEILING MOUNTED CAMERA

WALL MOUNTED CAMERA

MUNICATIONS & SECURITY **COMMUNICATIONS & SECURITY** CCTV HEAD-END TELEPHONE/DATA OUTLET (18" A.F.F.) W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING **CCTV MONITOR** c = 6" ABOVE COUNTER BACKSPLASH = NUMBER EQUALS TOTAL NUMBER OF PORTS CCTV MULTIPLEXER TELEPHONE/DATA OUTLET IN FLOOR COMPUTER TELEPHONE BOARD 3/4" FIRERATED PLYWOOD DIGITAL COMMUNICATOR TELEVISION OUTLET (88" A.F.F.) DIGITAL VIDEO RECORDER TEMPERATURE SENSOR DOOR ALARM ANNUNCIATOR VIDEO CASSETTE RECORDER ALARM HORN VOLUME CONTROL (48" A.F.F.) BUZZER CHIME **EQUIPMENT & DEVICES** DOOR CONTACT ANTENNA DOORBELL ANTENNA - TELEMETRY ELECTRIC DOOR OPENER **BAY BOX LIGHTING** ELECTRIC DOOR STRIKE **BAY BOX POWER** GLASS BREAKAGE DETECTOR - WALL MOUNTED **CEILING FAN** GLASS BREAKAGE DETECTOR - CEILING MOUNTED ANALOG CLOCK 2 = DUAL FACE HANGING MICROPHONE INTERCOM 2 = DUAL FACE INTERCOM HEAD-END CABINET TIME ELAPSE CLOCK & CONTROLLER INTERCOM MASTER DIMMER CONTROL BOX INTERCOM SLAVE **ELECTRIC METER** KEYPAD **GENERATOR** MAGNETIC CONTACT GENERATOR ANNUNCIATOR MAGNETIC LOCK GROUND JACK MICROPHONE OUTLET HAND DRYER MICROPHONE OUTLET IN FLOOR CLOCK MASTER CLOCK MICROPHONE OUTLET WALL MOUNTED MOTOR W/ DESIGNATION MICROPHONE - OBSERVATION ROOM MOTORIZED DAMPER MOTION DETECTOR - WALL MOUNTED PANELBOARD - WALL MOUNTED MOTION DETECTOR - CEILING MOUNTED PANELBOARD - FLUSH MOUNTED PERSONAL ALARM ANNUNCIATOR DISTRIBUTION PANELBOARD PERSONAL ALARM PUSH BUTTON TRANSFORMER PHYSIOLIOGICAL MONITOR AUTOMATIC TRANSFER SWITCH PROGRAM BELL SYSTEM MANUAL TRANSFER SWITCH PROXIMITY READER ACCESS CONTROL DISCONNECT SWITCH PUBLIC ADDRESS SYSTEM COMBINATION STARTER PUSH BUTTON - ONE BUTTON MOTOR STARTER PUSH BUTTON - MUSHROOMHEAD UTILITY POLE PUSH BUTTON - EMERGENCY CALL PULL BOX SECURITY CARD READER HAND HOLE SECURITY CONTROL PANEL PROGRAM BELL SERVER CABINET TIME CLOCK SOUND EQUIPMENT CABINET TRANSIENT VOLTAGE SURGE SUPPRESSOR SPEAKER - CEILING MOUNTED UNINTERRUPTIBLE POWER SOURCE SPEAKER - OBSERVATION ROOM VARIABLE SPEED DRIVE SPEAKER - SURFACE MOUNTED WATER HEATER SPEAKER - WALL MOUNTED **WEATHER HEAD** DATA OUTLET (18" A.F.F.) W/ 1" CONDUIT TO ABOVE UNIT HEATER - CEILING MOUNTED ACCESSIBLE CEILING c = 6" ABOVE COUNTER BACKSPLASH UNIT HEATER - WALL MOUNTED 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS DATA OUTLET IN FLOOR SURFACE RACEWAY DATA OUTLET 3' ON CENTER TELEPHONE OUTLET (18" A.F.F.) W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING c = 6" ABOVE COUNTER BACKSPLASH W = MOUNT 48" A.F.F.

2 = NUMBER EQUALS TOTAL NUMBER OF PORTS

TELEPHONE OUTLET IN FLOOR

OUTLETS & RECEPTACLES					
\rightarrow	SIMPLEX RECEPTACLE (18" A.F.F.)				
	SIMPLEX RECEPTACLE IN FLOOR				
-	SIMPLEX RECEPTACLE EMERGENCY (18" A.F.F.)				
	SIMPLEX RECEPTACLE EMERGENCY IN FLOOR				
	DUPLEX RECEPTACLE (18" A.F.F.)				
\ominus	c = 6" ABOVE COUNTER BACKSPLACH GFI = GROUND FAULT INTERRUPTER				
	SURFACE RACEWAY DUPLEX OUTLET 3' ON CENTER				
	DUPLEX RECEPTACLE IN FLOOR				
0	DUPLEX RECEPTACLE EMERGENCY (18" A.F.F.)				
\bigcirc	DUPLEX RECEPTACLE EMERGENCY IN FLOOR				
©	CLOCK RECEPTACLE (88" A.F.F.)				
⊜IG	ISOLATED GROUND RECEPTACLE (18" A.F.F.)				
[⊜]IG	ISOLATED GROUND RECEPTACLE IN FLOOR				
#	QUADRAPLEX RECEPTACLE (18" A.F.F.)				
	QUADRAPLEX RECEPTACLE IN FLOOR				
+	QUADRAPLEX RECEPTACLE EMERGENCY (18" A.F.F.)				
	QUADRAPLEX RECEPTACLE EMERGENCY IN FLOOR				
•	QUADRAPLEX SURGE SUPPRESSOR RECEPTACLE				
	QUADRAPLEX SURGE SUPPRESSOR RECEPTACLE IN				
	QUADRAPLEX SURGE SUPPRESSOR RECEPTACLE EMERGENCY				
	QUADRAPLEX SURGE SUPPRESSOR RECEPTACLE EMERGENCY IN FLOOR				
	SPECIAL PURPOSE RECEPTACLE				
	SPECIAL PURPOSE RECEPTACLE IN FLOOR				
	JUNCTION BOX				
	JUNCTION BOX IN FLOOR				
	JUNCTION BOX WALL MOUNTED				
PP	POWER POLE				
PS	POWER SUPPLY				
P	POWER WHIP				
R∕⊕	DUPLEX RECEPTACLE CORD REEL				
SWITCHBOARD METERS					
A	AMMETER				
AS	AMMETER PHASE SELECTOR SWITCH				
(C M)	CUSTOMER METER				
D	DEMAND METER				
Hz	FREQUENCY METER				
(GD)	GROUND DETECTOR				
MM	MULTIMETER				
PF	POWER FACTOR METER				
TWM	TOTALIZING WATT HOUR METER				
VAR	VARMETER				
V	VOLTMETER				
(VA)	VOLT-AMMETER				
(vs)	VOLTMETER PHASE SELECTOR SWITCH				
(WM)	WATTHOUR METER				
ADDDE	WATTMETER				
	<u>/IATIONS</u>				
A.F.F.	ABOVE FINISHED FLOOR				
	CONDUIT				
c	6" ABOVE COUNTER BACKSPLASH				
GFI	GROUND FAULT INTERRUPTER				
WP	WEATHERPROOF CALVANIZED BIGID STEEL				
GRS	GALVANIZED RIGID STEEL				
EMT	ELECTRICAL METALLIC TUBING				

AC ALTERNATING CURRENT

PVC POLYVINYL CHLORIDE CONDUIT

MC METAL CLAD CABLE

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ENGINEER OF RECORD:

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SAINT LOUIS, MO 63101 314.206.7100

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REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

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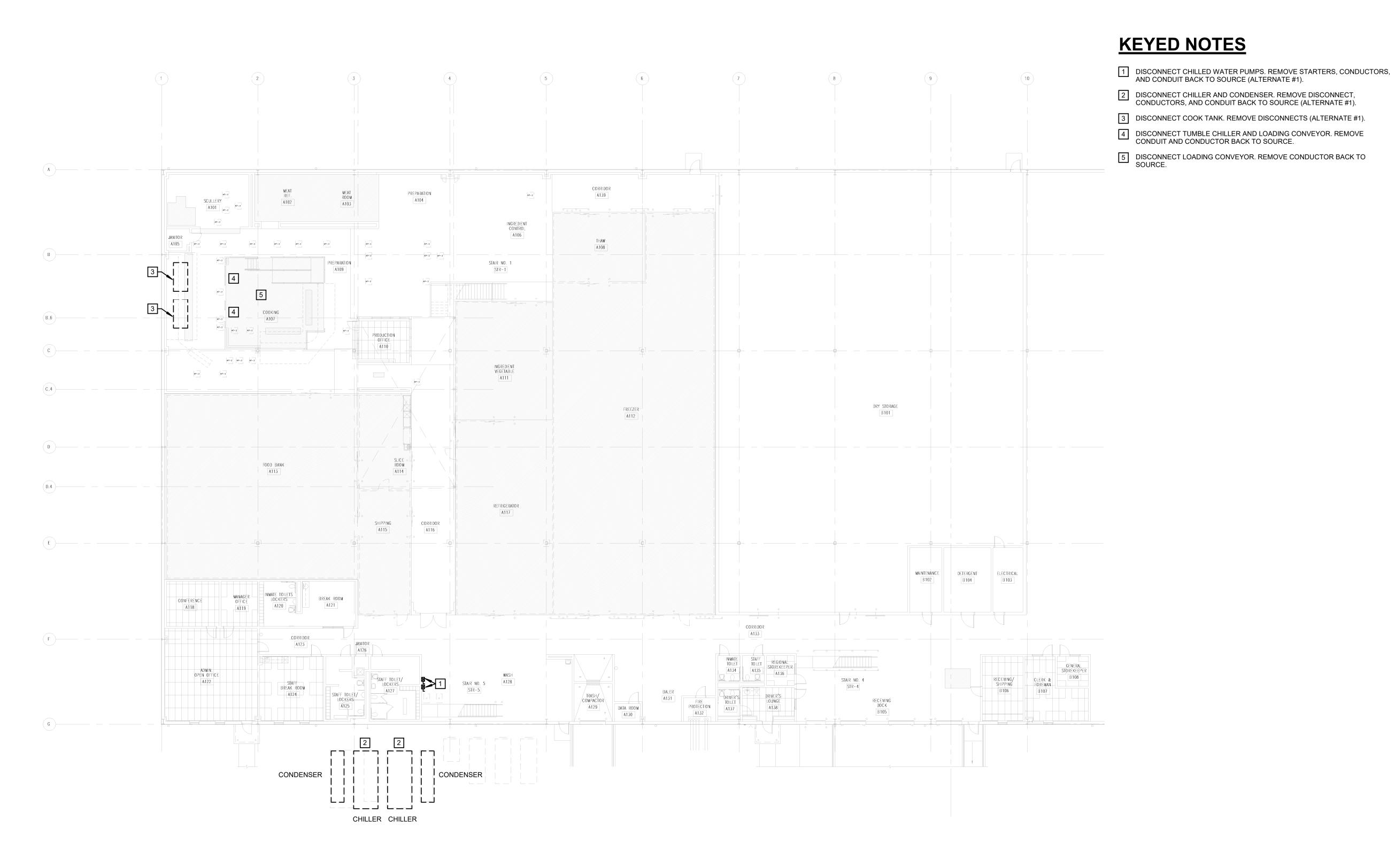
SHEET TITLE:

ELECTRICAL LEGEND

SHEET NUMBER:

20 OF 25 SHEETS

09/02/2022



1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION BASE BID
1/16" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



PROFESSIONAL SEAL



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DESIGNED BY: KSS

SHEET TITLE:

FIRST FLOOR PLAN
- ELECTRICAL
DEMOLITION

SHEET NUMBER:

E-101

KEYED NOTES PROVIDE 400A FUSES IN EXISTING 400A FUSED DISCONNECT. PROVIDE 3-600MCM, #2G IN 3" CONDUIT TO NEW PANEL. PROVIDE A NEMA 3R 400A, 480V, 3 PHASE, 3 WIRE PANEL. PROVIDE 4-60A 3P, 3-80A 3P BREAKERS. 3 PROVIDE 3#4, #8G IN 1" CONDUIT TO NEW PANEL AND CONNECT TO 80A 3P BREAKER. PROVIDE 3#6, #10G IN 1" CONDUIT TO NEW PANEL AND CONNECT TO 60A 3P BREAKER. PROVIDE NEMA 4X JUNCTION BOX AT DISCONNECT LOCATION. EXTEND 3# 12, #12 GROUND IN 3/4" CONDUIT TO A 30A NEMA 4X DISCONNECT MOUNTED ON WALKWAY. PROVIDE 3#12, #12G IN 3/4" CONDUIT TO COOK TANK AND CONNECT (ALTERNATE #1). CORRIDOR A139 6 PROVIDE 4#8, #10G IN 1" CONDUIT TO EXISTING 480V 3 PHASE PANEL. PROVIDE A 40A 3P BREAKER AND CONNECT. INGREDIENT CONTROL A106 7 ROUTE CONDUIT TIGHT TO CEILING. 8 ROUTE CONDUIT TIGHT TO CEILING ABOVE COOLER. STR-1 ECU-06 4 8.6 ECU-07 INGREDIENT VEGETABLE A111 DRY STORAGE FOOD BANK A114 REFRIGERATOR A117 SHIPPING A115 CORRIDOR INMATE TOILETS LOCKERS A120 BREAK ROOM A121 ADMIN. OPEN OFFICE A122 TRASH/ COMPACTOR A129

1 FIRST FLOOR PLAN - ELECTRICAL NEW WORK BASE BID

1/16" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



PROFESSIONAL SEAL



401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159 EXPIRATION DATE: DECEMBER 31, 2022



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

REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE # 7029 FACILITY # 9327029018

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/02/2022

CAD DWG FILE:
DRAWN BY: TJA
CHECKED BY: KSS
DESIGNED BY: KSS

SHEET TITLE:

FIRST FLOOR PLAN
- ELECTRICAL NEW
WORK

SHEET NUMBER:

E-201

DESIGN CRITERIA: INTERNATIONAL BUILDING CODE, 2015 EDITION (IBC 2015) **BUILDING CODE** INTERNATIONAL EXISTING BUILDING CODE. 2015 EDITION (IBC 2015) AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, STRUCTURAL STEEL EDITION (AISC 360-10), AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, 2010 EDITION (AISC 341-10) ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE CONCRETE, 2014 EDITION (ACI 318-14) **DESIGN LOADS: BUILDING OCCUPANCY CATEGORY** RISK CATEGORY <u>DEAD</u> FLOOR (GENERAL) 10 PSF TYPICAL MECHANICAL UNIT = 592 PSF = 40 PSF GROUND SNOW LOAD, Pg = 20 PSF SNOW EXPOSURE FACTOR, Ce 1.0 SNOW LOAD IMPORTANCE FACTOR, Is = 1.10 THERMAL FACTOR. Ct 1.20

120 MPH

1.0

0.209

0.108

0.222

0.171

FREE DRAINING

MATERIAL/GRAVEL

ASSUMED "D"

= 1.25

SYMBOLS	
ELEVATION DESIGNATION +	_
WELDED WIRE REINFORCING	××
FOOTING OR GRADE BEAM	
TOP OF STEEL ELEVATION CENTERED - BEAM LEVEL (110'-0") AT END - ELEVAT FOR A LOCAL MEM	
+ OR -, RELATIVE TO ADJACENT MEMB	3ER (+2 1/2")

BASIC WIND SPEED (3 SECOND GUST)

MAPPED SPECTRAL RESPONSE ACCELERATION

SHORT PERIOD, Ss

SHORT PERIOD, Sds

I-SEC PERIOD, Sd1

1-SEC PERIOD, S1

WIND IMPORTANCE FACTOR

WIND EXPOSURE CATEGORY

SITE CLASS

SEISMIC IMPORTANCE FACTOR

SPECTRAL RESPONSE COEFFICIENT

SEISMIC DESIGN CATEGORY

	REBAR TENSION DEVELOPMENT & LAP SPLICE LENGTHS NORMAL WEIGHT CONCRETE								
	f' _c = 4500 psi	_c = 4500 psi							
	BAR SIZE	LAD		UNCOATED BARS					
		LAP CLASS	TOP BARS		OTHER BARS				
			CASE 1	CASE 2	CASE 1	CASE 2			
	#3	Α	18	27	14	21			
		В	23	35	18	27			
	#4	Α	24	35	18	28			
		В	31	46	24	35			
	#5 A	Α	30	45	23	34			

B 38 57 30 45

TOP BARS" ARE HORIZ BARS PLACED WITH MORE THAN 12" OF CONCRETE PLACED BELOW THE BARS.

"OTHER BARS" ARE HORIZ BARS PLACED WITHIN THE BOTTOM 12" OF A CONCRETE MEMBER

"CATEGORY 1" BARS HAVE A CLEAR SPACING BETWEEN BARS OF NOT LESS THAN 2x THE BAR DIAMETER, AND A CLEAR COVER OF NOT LESS THAN 1x THE BAR DIAMETER "CATEGORY 2" BARS HAVE A CLEAR SPACING BETWEEN BARS THAT IS LESS THAN 2x

THE BAR DIAMETER, AND A CLEAR COVER OF NOT LESS THAN 1x THE BAR DIAMETER

FOR LAP SPLICE LENGTHS FOR A CONCRETE STRENGTH, fc, NOT SHOWN, USE THE TABLE FOR f'c THAT IS LOWER.

USE "CLASS B" LAP SPLICE UNLESS NOTED OTHERWISE ON THE DRAWINGS VERTICAL WALL BARS LAP SPLICE LENGTHS SHALL BE BASED ON "OTHER BARS"

DIVISION 1 - GENERAL REQUIREMENTS

CONSTRUCTION MEANS AND METHODS

CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF

OWNER OR STRUCTURAL ENGINEER. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

HORNER & SHIFRIN SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.

HORNER & SHIFRIN SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. HORNER & SHIFRIN SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.

THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR SUBMITTALS

SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO REPRODUCTION OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS IS NOT PERMITTED.

ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO CONTRACTOR. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM

OTHER DISCIPLINES AND NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REVIEW BY STRUCTURAL ENGINEER TO DETERMINE ADEQUACY OF THE STRUCTURE.

ALL SUBMITTALS REVIEWED BY STRUCTURAL ENGINEER ARE REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. ANY ACTION INDICATED IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING AND CONFIRMING DIMENSIONS AT THE JOB SITE, CHOICE OF FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATION OF THE WORK WITH THAT OF OTHER TRADES.

THE CONTRACTOR SHALL REVIEW AND APPROVE THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM FOR REVIEW BY THE ENGINEER.

THE CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW PRIOR TO FABRICATION. QUALITY REQUIREMENTS

REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE

CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO STRUCTURAL ENGINEER OR ANY OF STRUCTURAL ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL COORDINATE STRUCTURAL DOCUMENTS WITH OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REPORT ANY DISCREPANCY OR OMISSION TO ENGINEER. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO PROCEEDING WITH

SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS

OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED, WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.

STRUCTURAL TESTING AND SPECIAL INSPECTIONS

STRUCTURAL INSPECTIONS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING

SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR, AND IF NOT CORRECTED, SHALL BE REPORTED TO BUILDING OFFICIAL, OWNER, ARCHITECT, AND STRUCTURAL ENGINEER

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS: SEE TABLE BELOW FOR SPECIFIC TESTING REQUIREMENTS. CONCRETE CONSTRUCTION

DIVISION 2 - FOUNDATIONS

GENERAL

FOUNDATION DESIGN FOR PROTOTYPE IS BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1,500 PSF. SITE CONDITIONS TO BE VERIFIED BY A SITE SPECIFIC GEOTECHNICAL REPORT. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE DIFFERENT FROM THOSE ASSUMED IN DESIGN. OWNER'S GEOTECHNICAL REPRESENTATIVE SHALL CERTIFY THE BEARING MEDIUM.

EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.

ANY REQUIRED FILL SHALL BE CLEAN GRANULAR MATERIAL COMPACTED TO AT LEAST 95% MAX DENSITY PER ASTM D-1557.

DIVISION 3 - CONCRETE

3.1 REINFORCING:

A. GENERAL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS

NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.

EPOXY-COATED REINFORCING STEEL SHALL BE ASTM A775. WELDED WIRE FABRIC SHALL BE ASTM A185 AND SHALL BE CONTACT LAP SPLICED TWO FULL WIRE SPACES.

ALL REINFORCING BARS SHALL BE DETAILED, FABRICATED, SUPPORTED. AND PLACED IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND CRSI'S "MANUAL OF STANDARD PRACTICE". REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH

THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR

APPROVED BY STRUCTURAL ENGINEER. PROVIDE DOWELS FROM FOUNDATION THE SAME GRADE, SIZE, AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS ADHESIVE FOR REINFORCING DOWELS INTO EXISTING CONCRETE SHALL BE HILTI

HIT-HY 200 OR APPROVED EQUAL. MINIMUM EMBEDMENT SHALL BE AS FOLLOWS. UNLESS NOTED OTHERWISE ADHESIVE ANCHOR EMBEDMENT DEPTH INTO SOLID BASE MATERIAL SHALL BE AS

> #3 BAR 5" FMBEDMEN #4 BAR: 6" EMBEDMEN #5 BAR: 8" EMBEDMEN #6 BAR: 10" EMBEDMENT

FOLLOWS, UNLESS NOTED OTHERWISE

MECHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION. ALL REINFORCING SHALL BE CONTACT LAP SPLICED OR DOWELED AS FOLLOWS: #3 BARS -- 28" #4 BARS -- 37"

#5 BARS -- 47" #6 BARS -- 56" SLABS

WETTED AND STANDING WATER REMOVED.

ALL SLABS ON GRADE TO HAVE 6X6-W2.9XW2.9 WWF CENTERED IN MIDDLE 1/4 OF SLAB. UNLESS NOTED OTHERWISE. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #5 SUPPORT BARS AS NECESSARY

TO MAINTAIN PROPER PLACEMENT OF REINFORCING. PROVIDE 2-#5 TOP X 5'-0" DIAGONALS AT CORNERS OF OPENINGS AND RE-ENTRANT CORNERS, UNLESS NOTED OTHERWISE.

3.2 CAST-IN-PLACE CONCRETE: REINFORCED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28-DAY

COMPRESSIVE STRENGTH OF 4,500 PSI. ALL CONCRETE TO HAVE THE FOLLOWING UNIT WEIGHTS (+/- 3 PCF):

NORMAL WEIGHT CONCRETE: PLASTIC = 145 PCF ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND DEICER CHEMICALS SHALL HAVE 6% (+1%/-1.5%) AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL **FINISHED**

PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...

CONCRETE EXPOSED TO EARTH OR WEATHER... PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AS INDICATED IN THE STRUCTURAL DRAWINGS. IF JOINT PATTERN IS NOT INDICATED, PROVIDE JOINTS AT 15 FEET (+/-) IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS, ETC.) INTERFACE OF CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4". SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE

SEE ARCHITECTURAL DRAWINGS FOR WATERSTOPS. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GRADE AND WALL AND COLUMN INTERFACES THAT ARE NOT DOWELED TOGETHER. CONDUIT AND PIPES EMBEDDED IN SLABS SHALL BE NO LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL MEMBER THICKNESS OR 2" MAXIMUM, AND SHALL BE PLACED NO CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.

SLAB ON GRADE TO BE 4" THICK UNDERLAIN BY 6 MIL VAPOR BARRIER ON 6" THICK, 3/4" MINUS CRUSHED LIMESTONE GRANULAR FILL, TO MINIMUM 95% MODIFIED PROCTOR DENSITY. UNLESS NOTED OTHERWISE.

PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS UNDER EQUIPMENT. PADS SHALL EXTEND BEYOND EQUIPMENT 6" NOMINAL ON ALL SIDES. APPLY BONDING AGENT TO EXISTING CONCRETE SLAB PRIOR TO PLACING HOUSEKEEPING PAD. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR EQUIPMENT LOCATIONS.

DIVISION 5 - METALS

5.1 STRUCTURAL STEEL: A. GENERAL

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE. ASTM F1554, GRADE 36 WITH A36 WASHERS ANCHOR RODS AND HEAVY HEX NUTS

THREADED ROD ASTM A36 MATCHING STRENGTH, 70 KSI MIN. ELECTRODES ANCHORS TO CONCRETE AND MASONRY

ANCHORS SHALL BE ADHESIVE ANCHORS, UNLESS NOTED OTHERWISE. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL, ANCHORS SHALL BE PLAIN, UNCOATED EXCEPT PROVIDE STAINLESS STEEL ANCHORS WHERE SUPPORTED ITEM IS GALVANIZED.

ADHESIVE ANCHORS SHALL BE HILTI HIT-HY ADHESIVE ANCHORS OR APPROVED EQUAL. USE HIT-HY 200 MAX ADHESIVE WHEN ANCHORING INTO SOLID BASE MATERIAL. USE HIT HY 200 ADHESIVE PLUS A SCREEN TUBE WHEN ANCHORING TO OR THROUGH HOLLOW BASE MATERIAL. ANCHORS SHALL BE PLAIN, UNCOATED EXCEPT PROVIDE GALVANIZED ANCHORS WHERE SUPPORTED ITEM IS GALVANIZED.

WHEN INSTALLING ANCHORS, DO NOT CUT EXISTING REINFORCING, INSTALL ANCHORS TO ACCOMMODATE THE STANDARD HOLE SIZE IN STEEL. ADHESIVE ANCHOR EMBEDMENT DEPTH INTO SOLID BASE MATERIAL SHALL BE AS

FOLLOWS, UNLESS NOTED OTHERWISE: 3/8" DIAM. : 3-3/8" EMBEDMENT 1/2" DIAM. : 4-1/2" EMBEDMENT 5/8" DIAM. : 5-5/8" EMBEDMENT 3/4" DIAM. : 6-3/4" EMBEDMENT

SPECIAL INSPECTION TABLES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS

THE OWNER WILL ENGAGE AND EMPLOY A QUALIFIED SPECIAL INSPECTION AGENCY TO CONDUCT SPECIAL INSPECTIONS OF STRUCTURAL WORK AS REQUIRED BY CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE AND AS DELINEATED BELOW. AGENCIES THAT ARE CONSIDERED QUALIFIED AND ACCEPTABLE TO ACT AS SPECIAL INSPECTORS WILL BE THOSE ACCEPTABLE TO THE BUILDING OFFICIAL OF THE JURISDICTION THAT GRANTS THE BUILDING PERMIT AN THE OWNER.

SPECIAL INSPECTIONS REPORT REQUIREMENTS

SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. REPORTS SHALL INDICATE THAT THE STRUCTURAL WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONTRACT DOCUMENTS, DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, OWNER, ARCHITECT, AND STRUCTURAL ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.

REQUIRED SPECIAL INSPECTIONS

THE FOLLOWING TYPES OF STRUCTURAL WORK REQUIRE SPECIAL INSPECTIONS. REFER TO INDIVIDUAL SPECIFICATIONS SECTIONS FOR SPECIFIC TESTING AND INSPECTING REQUIREMENTS. CONTINUOUS INSPECTION IS THE FULL-TIME OBSERVATION OF WORK BY A QUALIFIED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION IS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK BY A QUALIFIED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

CAST-IN PLACE CONCRETE CONSTRUCTION

TYPE OF INSPECTION

SPECIAL INSPECTION ITEM			REMARKS
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	REWARNS
1. INSPECTION STEEL REINFORCEMENT, INCLUDING SIZE, QUANTITY, PLACEMENT AND CLEARANCES. VERIFY THAT APPROVED SHOP DRAWINGS WERE UTILIZED.		X	
2. INSPECTION OF ANCHOR RODS, HEADED BOLTS, HEADED STUDS, SHEAR STUD SHEAR REINFORCING AND OTHER EMBEDDED ITEMS INCLUDING SIZE, GRADE, LENGTH LOCATION AND CLEARANCES PRIOR TO AND DURING PLACEMENT OF CONCRETE.	x		
3. INSPECTION VAPOR RETARDER FOR TYPE, THICKNESS, LAPS AND PATCHES OF ALL VOIDS			
4. INSPECTION FORMWORK FOR SHAPE, LOCATION, DIMENSIONS AND CLEARANCES		Х	
5. VERIFICATION OF USE OF SPECIFIED DESIGN MIXTURE.		Х	
6. TESTING OF SLUMP, AIR CONTENT, AND TEMPERATURE OF CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS.	Х		
7. INSPECTION OF CONCRETE PLACEMENT, INCLUDING CONVEYING, DEPOSITING AND APPLICATION TECHNIQUES.	х		
8. INSPECTION OR CURING PROCEDURES AND MAINTENANCE OF CURING TEMPERATURES.		Х	
9. INSPECTION OF EXPANSION/EPOXIED ANCHORS INSTALLED IN HARDENED CONCRETE.	Х		
10. VERIFICATION OF CONCRETE STRENGTH BEFORE REMOVAL OF SHORES AND FORMS FROM BEAMS AND SLABS.		х	

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY

SPECIAL INSPECTION ITEM	TYPE OF IN	SPECTION	DEMARKO
	CONTINUOUS	PERIODIC	REMARKS
1. USE OF PROPER ANCHOR SYSTEM AND MANUFACTURER.		х	
2. REVIEW OF INSTALLER'S QUALIFICATIONS INCLUDING CERTIFICATION BY ANCHOR MANUFACTURER.		Х	
3. ANCHOR INSTALLATION PROCESS AS NOTED IN GENERAL NOTES.		Х	
4. VERIFICATION OF SUPPORTING MATERIALS CONDITION.		X	

5. PROOF TESTING AS OUTLINED IN GENERAL NOTES.

* REMARK NOTES: 1. INSPECTOR SHALL BE FAMILIAR WITH ANCHOR MANUFACTURER'S WRITTEN INSTALLATION PROCEDURE AND ESR REPORT. 2. REFER TO MANUFACTURER'S ESR FOR TYPE OR INSPECTION PERIODIC VS. CONTINUOUS.

ABBREVIATIONS:

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	F'C	28 DAY CONCRETE COMPRESSIVE STRENGTH	SOG TO	SLAB ON GRADE TOP OF
ВО	BOTTOM OF	FTG	FOOTING	TOC	TOP OF CONCRETE
CJ	CONTROL JOINT	K	KIPS (1000 LBS)	TOF	TOP OF FOOTING
CONST JT	CONSTRUCTION JOINT	LBS	POUNDS	TYP	TYPICAL
CONT	CONTINUOUS	LD	DEVELOPMENT LENGTH	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	MAX	MAXIMUM	WWR	WELDED WIRE REINFORCING
EF	EACH FACE	NTS	NOT TO SCALE		
EJ	EXPANSION JOINT	NWT	NORMAL WEIGHT CONCRETE		
ELEV	ELEVATION	OC	ON CENTER		
EQ	EQUAL	PCF	POUNDS PER CUBIC FOOT		
EW	EACH WAY	PLF	POUNDS PER LINEAR FOOT		

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ENGINEER OF RECORD: CHAD L. BRENTON



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DISCIPLINE: PROFESSIONAL ENGINEERING

CERTIFICATE OF AUTHORITY: 000159



SAINT LOUIS, MO 63101

314.206.7100

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

REPLACE ICE BUILDERS BUILDING #13

OF CORRECTIONS

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE# FACILITY # 9327029018

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ISSUE DATE: 09/02/2022

CAD DWG FILE: DRAWN BY: CHECKED BY: DESIGNED BY: JAV

SHEET TITLE:

GENERAL STRUCTURAI NOTES

SHEET NUMBER:

23 OF 25 SHEETS

09/02/2022

20' - 0" BOLLARD (TYP.) TURN DOWN SLAB, -ALL SIDES (TYP.) SEE DETAIL 6 6" CONC. W/ 6x6-W2.9xW2.9 WWR + 0' - 6" EDGE OF BUILDING TURN DOWN SLAB,
 ALL SIDES (TYP.)
 SEE DETAIL 6 6" CONC. W/ 6x6-W2.9xW2.9 WWR + 0' - 6" 1' - 2 5/8" 1' - 2 5/8" 20' - 0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR

REFERENCE M-SHEETS FOR ADDITIONAL INFORMATION
PROVIDE BOLLARDS AT ALL CORNERS, AT MAXIMUM 6'-0" O.C., AND

APPROX. 2' OFF OF BUILDING. COORDINATE EXACT LOCATIONS WITH MECHANICAL EQUIPMENT ACCESS REQUIREMENTS



ENGINEER OF RECORD: CHAD L. BRENTON



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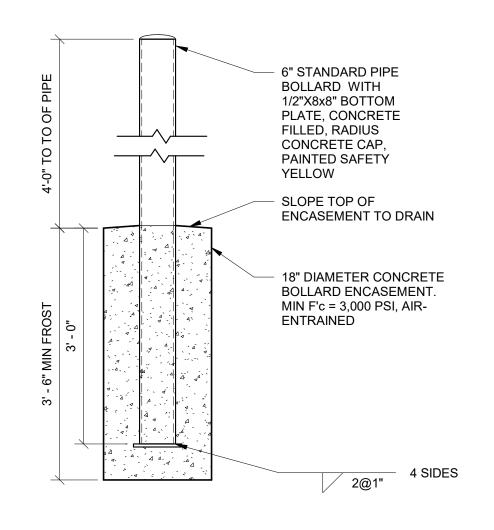
EQUIPMENT PAD LAYOUT

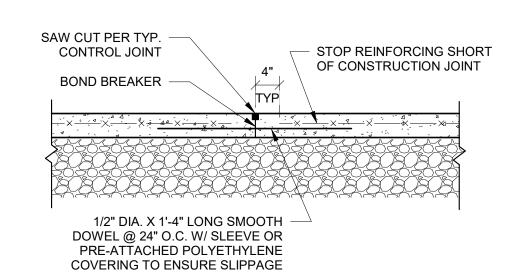
SHEET NUMBER:

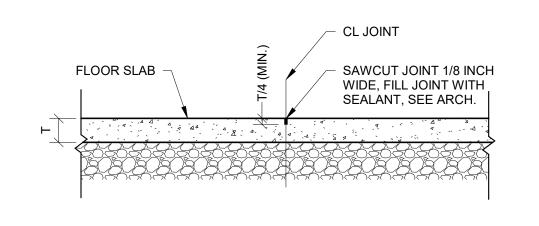
S-101

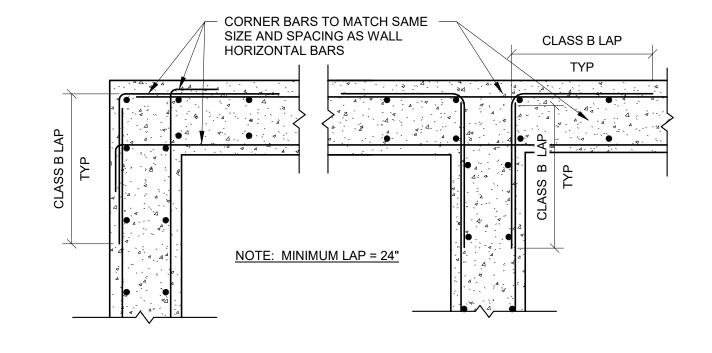
1 FOUNDATION PLAN
S-101 1/4" = 1'-0"

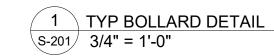
24 OF 25 SHEETS
09/02/2022



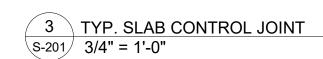




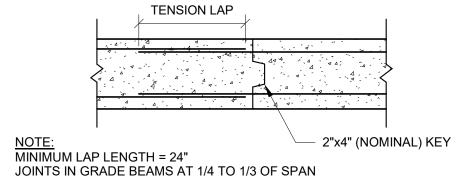








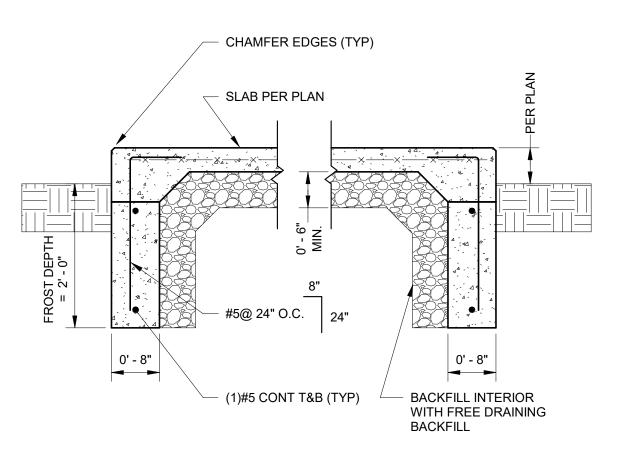


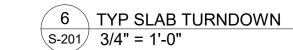


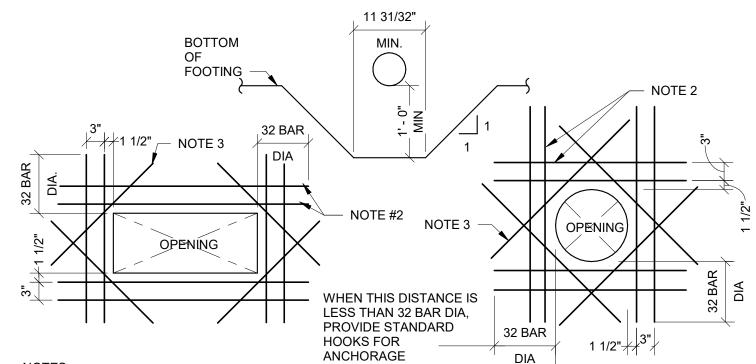
SUBMIT PROPOSED WALL JOINT LOCATIONS FOR APPROVAL PRIOR TO

- POURING WALL. CONSTRUCTION JOINTS SHALL BE SPACED NO CLOSER THAN 5'-0" FROM CORNERS AND/OR PIERS. WHERE WALL SPANS HORIZONTALLY TO SUPPORT VERTICAL OR LATERAL LOADS, JOINTS SHALL BE LOCATED IN MIDDLE THIRD OF WALL SPANS, UNLESS NOTED OTHERWISE. REFER TO PLANS FOR LOCATIONS WHERE WALLS ARE SO
- REFER TO GENERAL NOTES FOR WALL REINFORCING SPLICE CRITERIA. (CLASS
- B LAP SPLICE ALLOWED BUT NOT REQUIRED AT CONSTRUCTION JOINT.) LOCATE VERTICAL CONTROL JOINTS ACCORDING TO THE FOLLOWING
 - WHERE SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
 - AT 30'-0" MAXIMUM SPACING ALONG CONTINUOUS LENGTH OF WALL. WITHIN 10'-0" OF CORNERS, NO CLOSER THAN 5'-0" FROM CORNERS
 - AND/OR PIERS.
 AT ABRUPT CHANGES IN WALL THICKNESS OR HEIGHT.
 DO NOT LOCATE VERTICAL JOINTS IN WALLS THAT SPAN HORIZ TO RESIST LATERAL LOADS.









NOTES:

1. FOR OPENINGS WITH NO DIMENSIONS GREATER THAN 24": PROVIDE ADDITIONAL REINF AS SHOWN AND NOTE THESE DETAILS.

2. SIZE AND NUMBER OF LAYERS OF ADDITIONAL REINF TO BE THE SAME AS REINF IN SLAB OR WALL ADJACENT TO THE OPENING. TYPICAL FOUR SIDES EXCEPT AS SHOWN OR NOTED ON DRAWINGS. 3. ADD (2)#4x5'-0" LONG AT ALL CONRERS, TYPICAL

7 TYP ADDITIONAL REINF AT OPENINGS IN CONCRETE WALLS OR GRADE BEAMS S-201 3/4" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ENGINEER OF RECORD: CHAD L. BRENTON

401 S. 18TH ST., STE. 400 SAINT LOUIS, MO 63103-2296 314-531-4321 • FAX 314-531-6966 • WWW.HORNERSHIFRIN.COM DISCIPLINE: PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORITY: 000159

EXPIRATION DATE: DECEMBER 31, 2022



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

DEPARTMENT OF CORRECTIONS

REPLACE ICE BUILDERS BUILDING #13

JEFFERSON CITY CORRECTIONAL CENTER

JEFFERSON CITY, MO

PROJECT # C2009-01 SITE# 7029 FACILITY # 9327029018

REVISION: DATE: REVISION: DATE: **REVISION:** DATE: ISSUE DATE: 09/02/2022

CAD DWG FILE: DRAWN BY: CHECKED BY: CLB

DESIGNED BY: JAV

SHEET TITLE:

DETAILS

SHEET NUMBER: