NEW COMMUNITY SUPERVISION CENTER

Joplin, Missouri

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OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR
DEPARTMENT OF
CORRECTIONS

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

ACI BOLAND ARCHITECTS

PROJECT NUMBER: C2512-01
SITE NUMBER: 7033
ASSET NUMBER: 9327033001

SHEET NUMBER:
G-000
1 OF 133
September 30, 2026

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*RENDERING FOR ILLUSTRATIVE PURPOSES ONLY

ABBREVIATIONS

ABC	AGGREGATE BASE COURSE
ACT	ACOUSTIC CEILING TILE
A/C	AIR CONDITIONING
ADD	ADDENDUM
AFF	ABOVE FINISH FLOOR
AG	ARCHITECTURAL GLASS
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACRYLIC PANEL
ARCH	ARCHITECT
ASF	ARCHITECTURAL SURFACE FINISH
ASP	ASPHALT
AWC	ACOUSTIC WALLCOVERING
AWP	ACOUSTIC WALL PANEL
&	AND
@	AT
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BR	BUMPER RAILS
BRC	BRUSHED CONCRETE
BSMT	BASEMENT
CBT	CERAMIC BASE TILE
CC	CUBICLE CURTAIN
CCT	CUBICLE CURTAIN TRACK
CEM	CEMENT/CEMENTITIOUS
CER	CERAMIC
CFT	CERAMIC FLOOR TILE
CG	CORNER GUARD
CHR	CHAIR RAIL
CHAN	CHANNEL
CIP	CAST IN PLACE
CJ	CONTROL JOINT
	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLP	COMPACT LAMINATE PANEL
CLR	CLEAR
CM	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CR	CRASH RAIL
CS	CONCRETE SEALER
CST	CULTURED STONE
CWT	CERAMIC WALL TILE
DB	DECIBEL
DGP	DECORATIVE GLASS PANEL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DP	DAMP PROOFING
DPC	DYED AND POLISHED CONCRETE
DR	DRAPERY
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
EJ	EXPANSION JOINT
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXPAN	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CAB
FIN	FINISH
FIXT	FIXTURE
FL	FLASHING
FLR	FLOOR
FND	FOUNDATION
FR	FRAME
FRP	FIBERGLASS REINFORCED PANELS
FT	FEET / FOOT
FTG	FOOTING
FV	FIELD VERIFY
FWP	FABRIC WALL PANEL
G	GRAM
GA	GAUGE
GALV	GALVANIZED
GD	GRADE
GL	GLASS / GLAZING
GLT	GLASS WALL TILE
GND	GROUND
GRL	GRILLE
GT	GROUT
GWB	GYPSUM BOARD
GYP	GYPSUM
HB	HOSE BIB
HDN	HARDENER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
IB	INTEGRAL BASE
IN	INCH / INCHES
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IS	INTEGRAL SINK
JAN	JANITOR
JT	JOINT
JST	JOIST
KP	KICK PLATE
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LG	LENGTH
LNM	LINOLEUM
LOC	LOCATION
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
LWC	LIGHT WEIGHT CONCRETE
M	METER
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MC	METAL CABINETS
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MLDG	MOULDING
MO	MASONRY OPENING
MP	MOVEABLE PARTITION
MT	METAL TRIM
MTB	METAL BASE
MTL	METAL
MTL LATH	METAL LATH
MULL	MULLION
NF	NO FINISH
NG	NATURAL GRADE
NIC	NOT IN CONTRACT
NO / #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OBS	OBSCURE
OC	ON CENTER
OPNG	OPENING
OA	OVERALL
OFS	OVERFLOW SCUPPER
OD	OVERFLOW DRAIN
OHD	OVERHEAD DOOR
PBT	PORCELAIN BASE TILE
PC	POLISHED CONCRETE
PD	PAINT DETAIL / PAINT WALL GRAPHIC
PFT	PORCELAIN FLOOR TILE
PG	PAGE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQ FT
PSI	POUNDS PER SQ IN
PSTR	PLASTER
PT-X	PAINT (No acronym after number always stands for eggshell finish)
PT-XA	PAINT (‘A’ always stands for epoxy finish)
PT-XB	PAINT (‘B’ always stands for semi-gloss finish)
PT-XC	PAINT (‘C’ always stands for flat finish)
PT-XD	PAINT (‘D’ as needed per project if not listed above)
PTN	PARTITION
PWT	PORCELAIN WALL TILE
QBT	QUARRY BASE TILE
QT	QUARRY TILE
QTZ	QUARTZ
R	RISER, RISERS
RAD	RADIUS
RB	RESILIENT BASE
RBF	RUBBER FLOOR
RD	ROOF DRAIN
RE	REFER TO
REG	REGISTER
REQ'D	REQUIRED
RES	RESINOUS FLOOR
	RESINOUS WALLCOVERING
REV	REVISION
RF'G	ROOFING
RGH	ROUGH
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RSF	RESILIENT SHEET FLOOR
RST	RUBBER STAIR TREAD
S	STAINLESS STEEL SINK
SC	SHOWER CURTAIN
SCHED	SCHEDULE
SCR	SCREW
SCT	SHOWER CURTAIN TRACK
SDG	SIDING
SECT	SECTION
SEL	SELECT
SHG	SHEATHING
SHT	SHEET
SIM	SIMILAR
SLDG	SLIDING
SM	SMOOTH
SP	SAFETY PADDING
SPC	SPECIALTY CEILING
SPEC	SPECIFICATION
SPF	SPORTS FLOOR
SQ	SQUARE
SSF	SOLID SURFACE
SST	STAINLESS STEEL
	STAINLESS STEEL CABINET
	STAINLESS STEEL COUNTERTOP
ST	STAINED
STC	STAINED CONCRETE
STD	STANDARD
STN	STONE
STRUC	STRUCTURE
SUSP	SUSPENDED
SW BD	SWITCHBOARD
SYS	SYSTEM
T	TREAD
TB	TACK BOARD
TC	TOP OF CURB
TCF	TEXTILE COMPOSITE FLOORING
TF	TACK FABRIC
TG	TEMPERED GLASS
TO	TOP OF
TP	TOILET PARTITION
TRS	TRANSITION STRIP
TRZ	TERRAZZO FLOORING
TSD	TOP OF STEEL DECK
TUF	TURF
TW	TEACHERS WARDROBE
TYP	TYPICAL
TZB	TERRAZZO BASE
UNO	UNLESS NOTED OTHERWISE
UP	UPHOLSTERY
UCS	ULTRACOMPACT SURFACE
V	VENT
VCP	VITREOUS CLAY PIPE
VCT	VINYL COMPOSITION TILE
VG	VERTICAL GRAIN
VERT	VERTICAL
VEST	VESTIBULE
VET	VINYL ENHANCED TILE
VQT	VINYL QUARTZ TILE
VWC	VINYL WALLCOVERING
WC	WALLCOVERING
WCT	WAINSCOT
WD	WOOD
WDB	WOOD BASE
WDC	WOOD CEILING
WDF	WOOD FLOOR
WDP	WOOD PANELS
WDS	WOOD STAIN
WDV	WOOD VENEER
WDW	WINDOW
WF	WINDOW FILM
WH	WATER HEATER
WOC	WALK OFF CARPET
WOM	WALK OFF MAT
WP	WALL PROTECTION
WS	WALLGLASS SYSTEM
WT	WINDOW TREATMENT
WW	WINDOW WALL
WWM	WELDED WIRE MESH
W/	WITH
W/O	WITHOUT

LOCATION PLAN



NORTH

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
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NUMBER A-2025003948
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
G-001

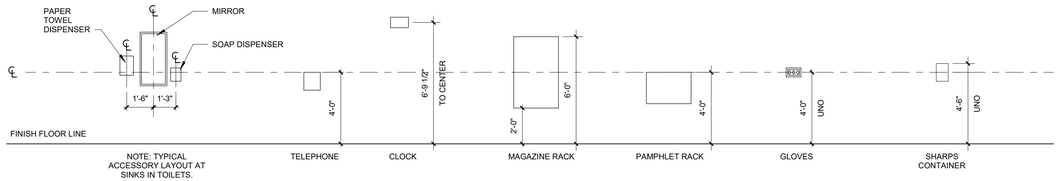
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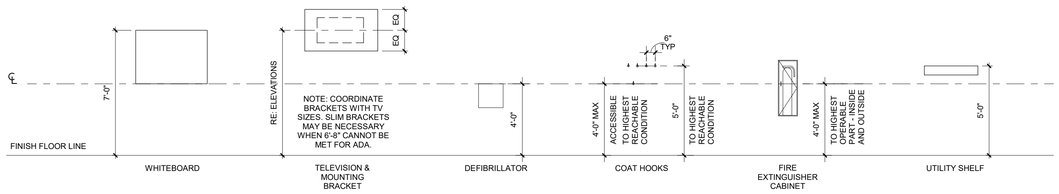
September 30, 2026

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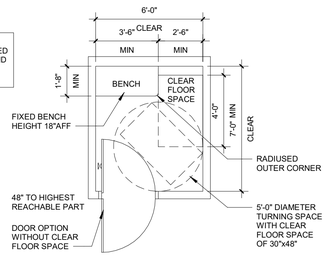


GENERAL NOTES:

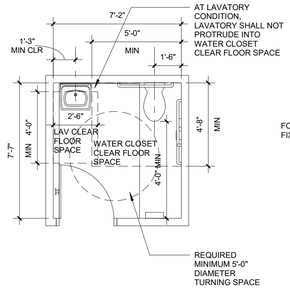
1. ANY OBJECTS PROJECTING MORE THAN 4 INCHES FROM THE FINISHED FACE OF WALL INTO A CIRCULATION PATH SHALL NOT HAVE A HEAD CLEARANCE OF LESS THAN 80" (6'-8").
2. GENERAL CONTRACTOR TO INSTALL FIRE RETARDANT WOOD BLOCKING FOR ALL EQUIPMENT OVER 50LBS AND FIRE RETARDANT PLYWOOD FOR EQUIPMENT UNDER 50 LBS, AS REQUIRED FOR THE MOUNTING OF ALL EQUIPMENT.

EQUIPMENT MOUNTING HEIGHTS
1/4" = 1'-0"

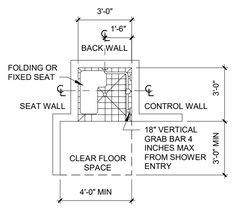
NOTE: DIMENSIONS AND LAYOUTS SHOWN IN THESE DETAILS ARE INTENDED TO SHOW THE MINIMUM DIMENSIONS AND MAY NOT MATCH FLOOR PLAN CONFIGURATIONS EXACTLY.



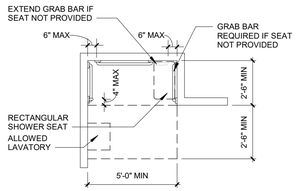
Ⓒ ACCESSIBLE DRESSING ROOM



Ⓑ ACCESSIBLE TOILET



Ⓐ ACCESSIBLE SHOWER

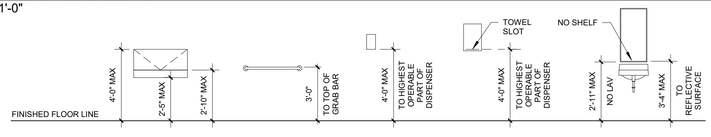


Ⓐ ACCESSIBLE 5' ROLL-IN SHOWER

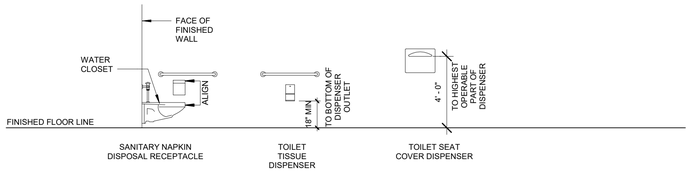
GENERAL ADA DIMENSIONS
1/4" = 1'-0"

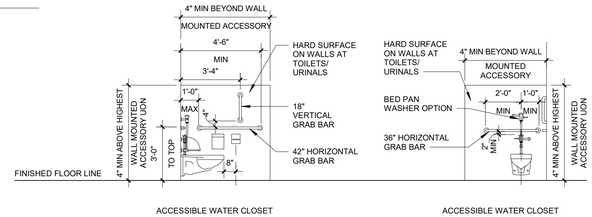
NOTE: INFANT CHANGING STATION SHALL NOT PROTRUDE FROM WALL MORE THAN 4". IF INFANT CHANGING STATION PROTRUDES MORE THAN 4" FROM WALL; BOTTOM OF INFANT CHANGING STATION SHALL BE LESS THAN 27" ABOVE FINISH FLOOR.

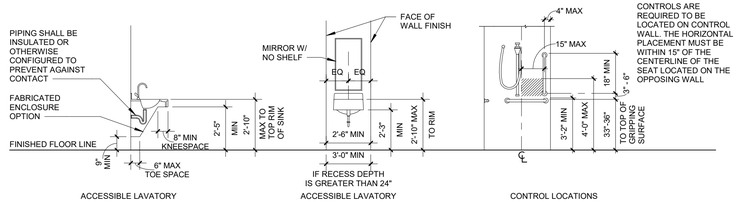
NOTE: OPERABLE PARTS SHALL NOT BE LOCATED MORE THAN 48" A.F.F. WHEN IN THE CLOSED POSITION.



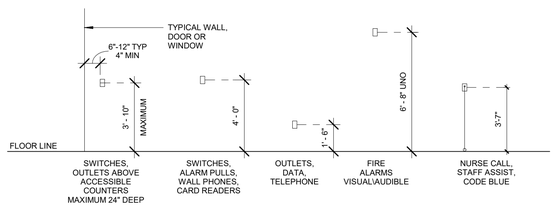
NOTE: PROVIDE 1-1/2" MIN. CLEARANCE FROM BOTTOM OF GRAB BAR TO TOP OF SANITARY NAPKIN DISPOSAL RECEPTACLE.







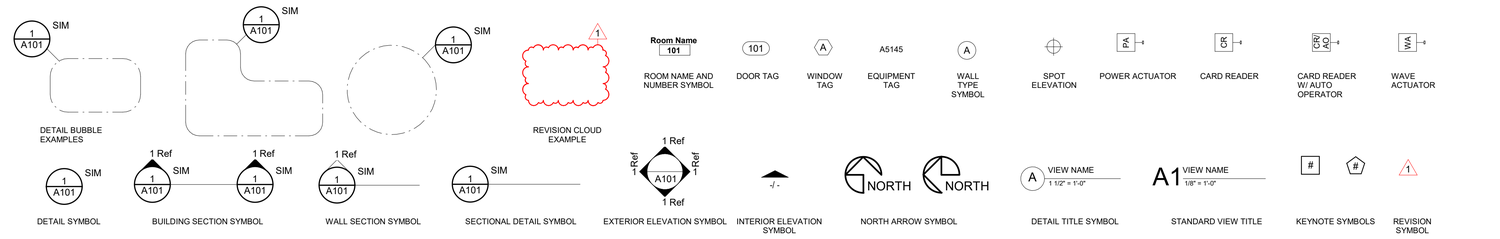
TOILET ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"



ELECTRICAL DEVICE MOUNTING HEIGHTS
1/4" = 1'-0"

TYPICAL FIXTURE ELEVATION
1/4" = 1'-0"

SYMBOLS
1/4" = 1'-0"



GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
4. DO NOT SCALE DRAWINGS.
5. THE WORD "ALIGN" AND "EQUAL" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
6. TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
9. THE GENERAL CONTRACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALLATION OF THROUGH-WALL FLASHING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO INSPECTION AGAINST HOLES OR PENETRATIONS, APPROPRIATE LAPPING AND SEALING, AND OVERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICATIONS.

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
REGISTERED ARCHITECT
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
G-011

3 OF 133

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CODE FOOTPRINT LEGEND

PARTITION TYPES

- 1 HR FIRE PARTITION
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER

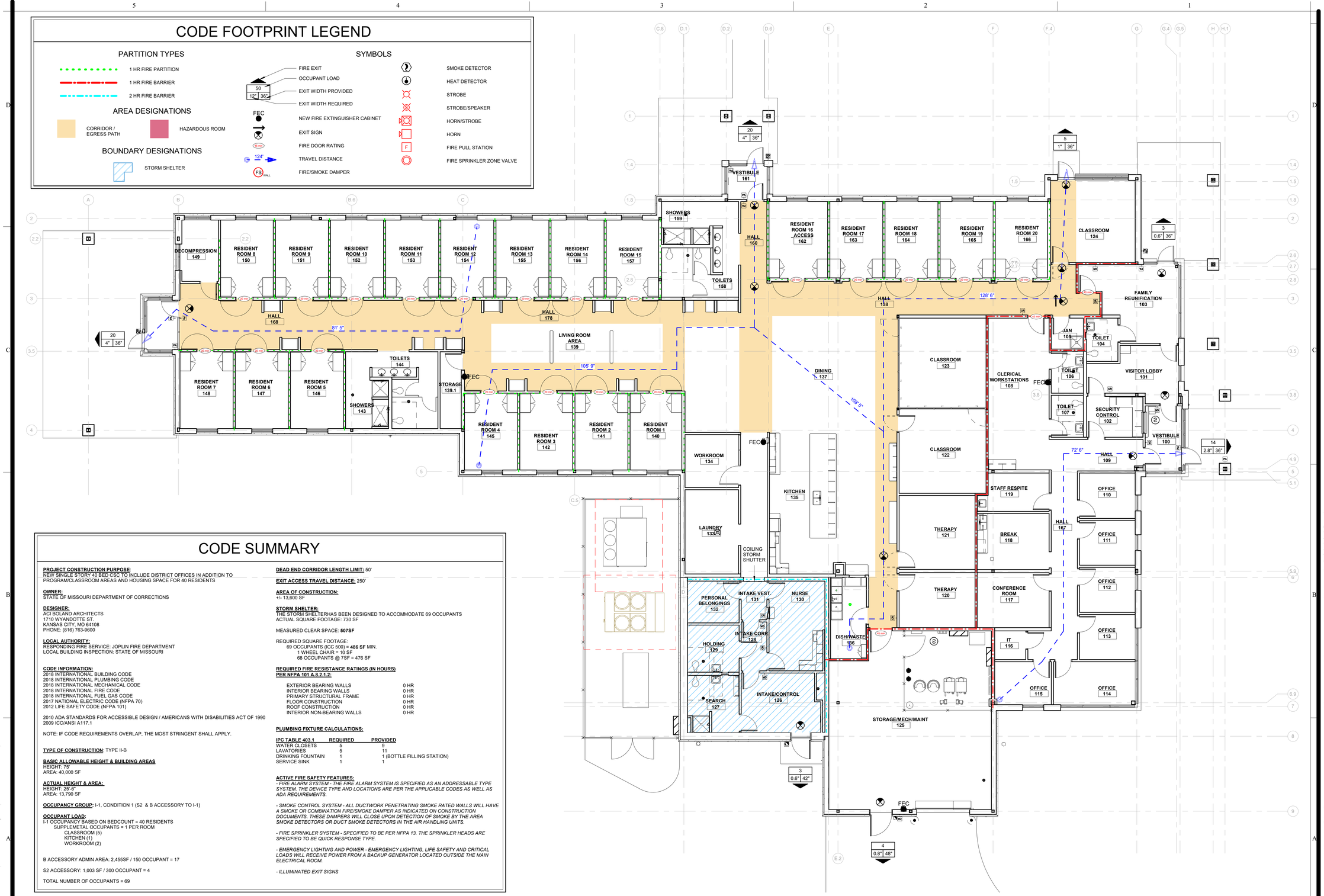
AREA DESIGNATIONS

- CORRIDOR / EGRESS PATH
- HAZARDOUS ROOM
- STORM SHELTER

BOUNDARY DESIGNATIONS

SYMBOLS

- FIRE EXIT
- OCCUPANT LOAD
- EXIT WIDTH PROVIDED
- EXIT WIDTH REQUIRED
- NEW FIRE EXTINGUISHER CABINET
- EXIT SIGN
- FIRE DOOR RATING
- TRAVEL DISTANCE
- FIRE/SMOKE DAMPER
- SMOKE DETECTOR
- HEAT DETECTOR
- STROBE
- STROBE/SPEAKER
- HORN/STROBE
- HORN
- FIRE PULL STATION
- FIRE SPRINKLER ZONE VALVE



CODE SUMMARY

PROJECT CONSTRUCTION PURPOSE
NEW SINGLE STORY 40 BED CSC TO INCLUDE DISTRICT OFFICES IN ADDITION TO PROGRAM/CLASSROOM AREAS AND HOUSING SPACE FOR 40 RESIDENTS

OWNER:
STATE OF MISSOURI DEPARTMENT OF CORRECTIONS

DESIGNER:
ACI BOLAND ARCHITECTS
1710 WYANDOTTE ST.
KANSAS CITY, MO 64108
PHONE: (816) 763-9600

LOCAL AUTHORITY:
RESPONDING FIRE SERVICE: JOPLIN FIRE DEPARTMENT
LOCAL BUILDING INSPECTION: STATE OF MISSOURI

CODE INFORMATION:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL FUEL GAS CODE
2017 NATIONAL ELECTRIC CODE (NFPA 70)
2012 LIFE SAFETY CODE (NFPA 101)

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN / AMERICANS WITH DISABILITIES ACT OF 1990
2009 ICC/ANSI A117.1

NOTE: IF CODE REQUIREMENTS OVERLAP, THE MOST STRINGENT SHALL APPLY.

TYPE OF CONSTRUCTION: TYPE II-B

BASIC ALLOWABLE HEIGHT & BUILDING AREAS
HEIGHT: 75'
AREA: 40,000 SF

ACTUAL HEIGHT & AREA:
HEIGHT: 25'-6"
AREA: 13,790 SF

OCCUPANCY GROUP: I-1, CONDITION 1 (S2 & B ACCESSORY TO I-1)

OCCUPANT LOAD:
I-1 OCCUPANCY BASED ON BEDCOUNT = 40 RESIDENTS
SUPPLEMETAL OCCUPANTS = 1 PER ROOM
CLASSROOM (5)
KITCHEN (1)
WORKROOM (2)

B ACCESSORY ADMIN AREA: 2,455SF / 150 OCCUPANT = 17

S2 ACCESSORY: 1,003 SF / 300 OCCUPANT = 4

TOTAL NUMBER OF OCCUPANTS = 69

DEAD END CORRIDOR LENGTH LIMIT: 50'

EXIT ACCESS TRAVEL DISTANCE: 250'

AREA OF CONSTRUCTION:
+/- 13,600 SF

STORM SHELTER:
THE STORM SHELTERHAS BEEN DESIGNED TO ACCOMMODATE 69 OCCUPANTS
ACTUAL SQUARE FOOTAGE: 730 SF

MEASURED CLEAR SPACE: **507SF**

REQUIRED SQUARE FOOTAGE:
69 OCCUPANTS (ICC 500) = **486 SF** MIN.
1 WHEEL CHAIR = 10 SF
68 OCCUPANTS @ 7SF = 476 SF

REQUIRED FIRE RESISTANCE RATINGS (IN HOURS) PER NFPA 101 A.8.2.1.2:

EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
PRIMARY STRUCTURAL FRAME	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR
INTERIOR NON-BEARING WALLS	0 HR

PLUMBING FIXTURE CALCULATIONS:

IPC TABLE 403.1	REQUIRED	PROVIDED
WATER CLOSETS	5	9
LAVATORIES	5	11
DRINKING FOUNTAIN	1	1 (BOTTLE FILLING STATION)
SERVICE SINK	1	1

ACTIVE FIRE SAFETY FEATURES:
- FIRE ALARM SYSTEM - THE FIRE ALARM SYSTEM IS SPECIFIED AS AN ADDRESSABLE TYPE SYSTEM. THE DEVICE TYPE AND LOCATIONS ARE PER THE APPLICABLE CODES AS WELL AS ADA REQUIREMENTS.

- SMOKE CONTROL SYSTEM - ALL DUCTWORK PENETRATING SMOKE RATED WALLS WILL HAVE A SMOKE OR COMBINATION FIRE/SMOKE DAMPER AS INDICATED ON CONSTRUCTION DOCUMENTS. THESE DAMPERS WILL CLOSE UPON DETECTION OF SMOKE BY THE AREA SMOKE DETECTORS OR DUCT SMOKE DETECTORS IN THE AIR HANDLING UNITS.

- FIRE SPRINKLER SYSTEM - SPECIFIED TO BE PER NFPA 13. THE SPRINKLER HEADS ARE SPECIFIED TO BE QUICK RESPONSE TYPE.

- EMERGENCY LIGHTING AND POWER - EMERGENCY LIGHTING, LIFE SAFETY AND CRITICAL LOADS WILL RECEIVE POWER FROM A BACKUP GENERATOR LOCATED OUTSIDE THE MAIN ELECTRICAL ROOM.

- ILLUMINATED EXIT SIGNS

A3 CODE FOOTPRINT PLAN
1/8" = 1'-0"

TRUE NORTH PLAN NORTH

**THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.*

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
NOTARY PUBLIC - NOTARY SEAL - STATE OF MISSOURI
9/30/2026

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Revision

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CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
FIRST FLOOR CODE FOOTPRINT PLAN

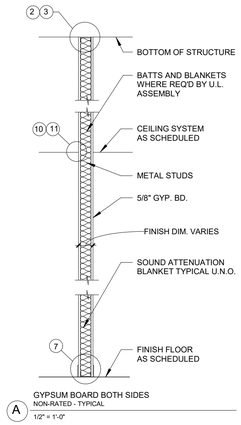
SHEET NUMBER:
G-101

4 OF 133

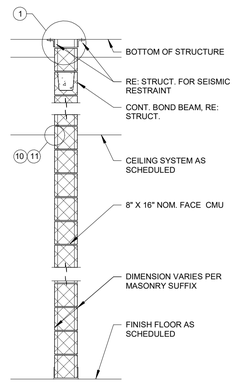
September 30, 2026

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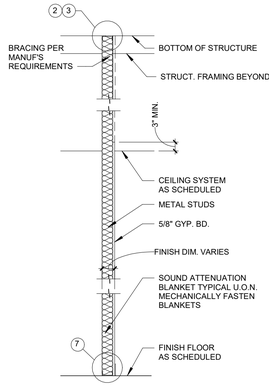
A GYPSUM BOARD BOTH SIDES
NON-RATED - TYPICAL
1/2" = 1'-0"



B CMU WALL TO STRUCTURE ABOVE
NON-RATED - TYPICAL
1/2" = 1'-0"

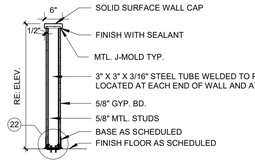
U.L. DESIGNATIONS AT RATED WALLS AS INDICATED ON LIFE SAFETY PLAN	
0 HOUR SMOKE RESISTIVE	
1 HOUR FIRE PARTITION U.L. U465 FOR 3 5/8" STUDS U.L. U442 AT TILED WALLS U.L. U451 FOR 2 1/2" STUDS	
1 HOUR FIRE SEPARATION U.L. U465 FOR 3 5/8" STUDS U.L. U442 AT TILED WALLS U.L. U451 FOR 2 1/2" STUDS	

U.L. DESIGNATIONS AT RATED WALLS AS INDICATED ON LIFE SAFETY PLAN	
1 HOUR FIRE SEPARATION U.L. U905	
2 HOUR FIRE SEPARATION U.L. U905	
3 HOUR FIRE SEPARATION U.L. U901	



K GYPSUM BOARD ONE SIDE ONLY, CEILING HEIGHT
1/2" = 1'-0"

L GYPSUM BOARD ONE SIDE ONLY, FULL HEIGHT
1/2" = 1'-0"



V KNEE WALL
1/2" = 1'-0"

PARTITION GENERAL NOTES

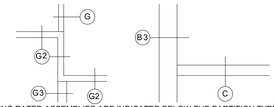
1. UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3 5/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3-5/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD)
2. WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE METAL STUD THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX	MTL. STUD THICKNESS
1	1-5/8" MTL. STUDS
2	2-1/2" MTL. STUDS
3	6" MTL. STUDS

3. UNLESS NOTED OTHERWISE ON THE FLOOR PLAN, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
4. UNLESS NOTED OTHERWISE, ALL CMU PARTITIONS ARE 7-5/8", 8" NOMINAL. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF CMU PARTITIONS OTHER THAN 8" NOMINAL.
5. WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE CMU THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX	CMU THICKNESS
1	ACTUAL 3-5/8", 4" NOMINAL
2	ACTUAL 5-5/8", 6" NOMINAL
3	ACTUAL 11-5/8", 12" NOMINAL

6. UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
7. ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
8. METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.
9. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE".
10. THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.



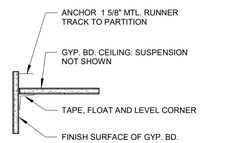
11. THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
12. PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
13. PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
14. AT PARTITION TYPES WHERE MTL. STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL. RUNNER TRACK.

1 TOP ANCHORAGE OF PARTITION TO CONCRETE DECK/BEAM
1-1/2" = 1'-0"

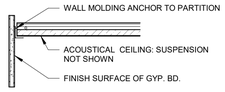
2 TOP ANCHORAGE OF PARTITION TO METAL DECK
1-1/2" = 1'-0"

3 TOP ANCHORAGE OF PARTITION TO CONCRETE STRUCTURE SEE 3A AND 3B FOR ADDITIONAL INFORMATION
1-1/2" = 1'-0"

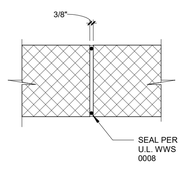
7 FLOOR ANCHORAGE OF PARTITION
1-1/2" = 1'-0"



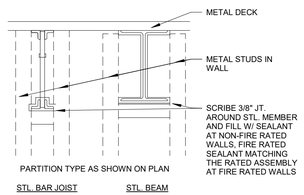
10 SUSPENDED GYP. BD. CEILING
1-1/4" = 1'-0"



11 CEILING DETAILS FOR GYP. BD. VERTICAL SURFACES
1-1/4" = 1'-0"



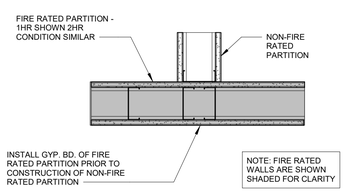
12 2 HR RATED CMU CONTROL JOINT DETAIL
1-1/2" = 1'-0"



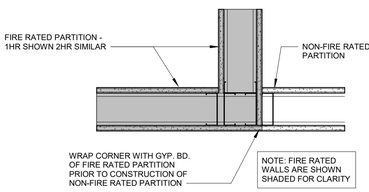
15 PARTITION CLOSURE DETAIL AT STEEL STRUCTURE
1-1/2" = 1'-0"

18 SINGLE DOOR FRAMING DETAILS
1/4" = 1'-0"

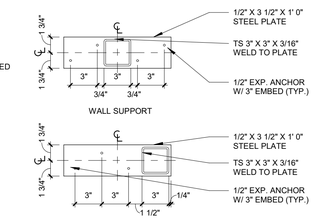
19 ADJACENT DOORS FRAMING DETAILS
1/4" = 1'-0"



20 FIRE RATED PARTITION "T" TRANSITION - PLAN DETAIL
1-1/2" = 1'-0"



21 FIRE RATED PARTITION CORNER TRANSITION - PLAN DETAIL
1-1/2" = 1'-0"



22 HALF HT. WALL BASE PLATE DETAIL
1-1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

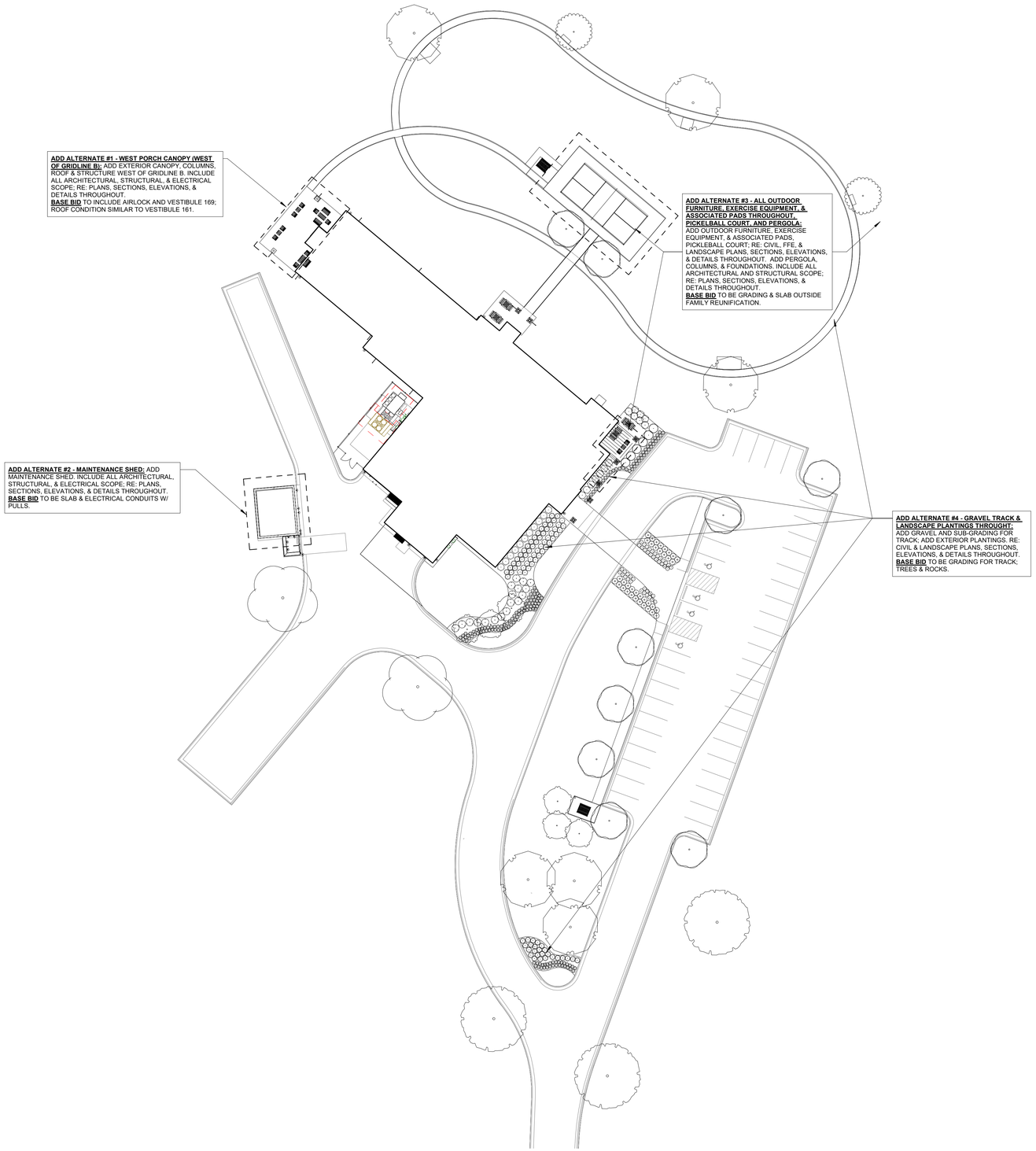
SHEET TITLE:
PARTITION TYPES & DETAILS

SHEET NUMBER:
G-111

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September 30, 2026

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ADD ALTERNATE #1 - WEST PORCH CANOPY (WEST OF GRIDLINE B): ADD EXTERIOR CANOPY, COLUMNS, ROOF & STRUCTURE WEST OF GRIDLINE B. INCLUDE ALL ARCHITECTURAL, STRUCTURAL, & ELECTRICAL SCOPE; RE: PLANS, SECTIONS, ELEVATIONS, & DETAILS THROUGHOUT.
BASE BID TO INCLUDE AIRLOCK AND VESTIBULE 169; ROOF CONDITION SIMILAR TO VESTIBULE 161.

ADD ALTERNATE #2 - MAINTENANCE SHED: ADD MAINTENANCE SHED. INCLUDE ALL ARCHITECTURAL, STRUCTURAL, & ELECTRICAL SCOPE; RE: PLANS, SECTIONS, ELEVATIONS, & DETAILS THROUGHOUT.
BASE BID TO BE SLAB & ELECTRICAL CONDUITS W/ PULLS.

ADD ALTERNATE #3 - ALL OUTDOOR FURNITURE, EXERCISE EQUIPMENT, & ASSOCIATED PADS THROUGHOUT, PICKELBALL COURT, AND PERGOLA:
ADD OUTDOOR FURNITURE, EXERCISE EQUIPMENT, & ASSOCIATED PADS, PICKLEBALL COURT; RE: CIVIL, FFE, & LANDSCAPE PLANS, SECTIONS, ELEVATIONS, & DETAILS THROUGHOUT. ADD PERGOLA, COLUMNS, & FOUNDATIONS. INCLUDE ALL ARCHITECTURAL AND STRUCTURAL SCOPE; RE: PLANS, SECTIONS, ELEVATIONS, & DETAILS THROUGHOUT.
BASE BID TO BE GRADING & SLAB OUTSIDE FAMILY REUNIFICATION.

ADD ALTERNATE #4 - GRAVEL TRACK & LANDSCAPE PLANTINGS THROUGHT:
ADD GRAVEL AND SUB-GRADING FOR TRACK; ADD EXTERIOR PLANTINGS. RE: CIVIL & LANDSCAPE PLANS, SECTIONS, ELEVATIONS, & DETAILS THROUGHOUT.
BASE BID TO BE GRADING FOR TRACK; TREES & ROCKS.

A1 SITE PLAN - ALTERNATES
1" = 30'-0"

NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
SITE PLAN - ALTERNATES

SHEET NUMBER:
G-112

September 30, 2026

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

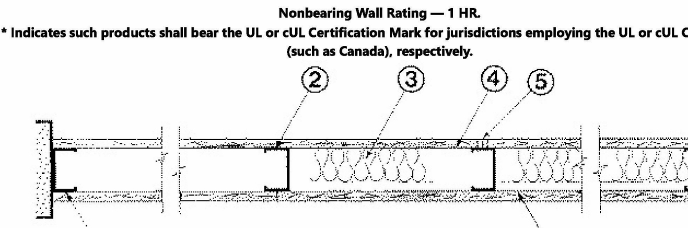
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U465**

December 1, 2023

Nonbearing Wall Rating — 1 HR.

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



1. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

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

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

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

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

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1B. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

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

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
KIRII (HONG KONG) LTD — Type KIRII

1G. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

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

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1J. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1K. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CRACO MFG INC — SmartTrack20™

1M. **Framing Members* - Floor and Ceiling Runners –** Not shown – In lieu of Items 1 through 1L – For use with Item 2O, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20/33 mil

1N. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20EQ/19 mil

1O. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1P. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

2. **Steel Studs —** Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

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

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

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

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

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2B. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper20™

CRACO MFG INC — SmartStud20™

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

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. **Steel Studs —** (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

2D. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2E. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2F. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
KIRII (HONG KONG) LTD — Type KIRII

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2I. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2J. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2L. **Framing Members* — Steel Studs —** As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2M. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper X

2N. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CRACO MFG INC — SmartStud20™

2O. **Framing Members* - Steel Studs –** Not Shown – In lieu of Items 2 through 2N – For use with Item 1M, proprietary channel shaped steel studs, min 1-5/8 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness) spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20/33 mil

2P. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20EQ/19 mil

2Q. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1O) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1O). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2R. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1P, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZJZ) category for names of Classified companies.

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Batts and Blankets* —** For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.
See **Batts and Blankets** (BZJZ) category for names of manufacturers.

3E. **Batts and Blankets* —** For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

3F. Deleted.
3G. **Foamed Plastic* —** As an alternate to Batts and Blankets (Item 3), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

3H. **Foamed Plastic* —** As an alternate to Batts and Blankets (Item 3), for use with Item 4W — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, and Walltite® XL

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4A. **Gypsum Board* —** (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CERTAINTEED GYPSUM INC — Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4B. **Gypsum Board* —** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4C. **Gypsum Board* —** As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

4D. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

4E. **Gypsum Board* —** (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type SBWB

4F. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Type SCX, ULIX

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, and FSMR-C

UNITED STATES GYPSUM CO — Type SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

4I. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Types SCX, ULIX

UNITED STATES GYPSUM CO — Types SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. **Gypsum Board* —** (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4N. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4O. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel

framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.
NATIONAL GYPSUM CO — Type FSW

4P. **Gypsum Board* —** As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types ULIX

4Q. **Gypsum Board* —** 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4R. **Gypsum Board* —** As an alternate to Item 4D. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type FSLX.

4S. **Gypsum Board* —** As an alternate to Item 4. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4A.
CERTAINTEED GYPSUM INC — Type CLLX.

4T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4U. **Gypsum Board*—** (As an alternate to Item 4 when Foam Plastic insulation Item 3G is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

4V. **Gypsum Board* —** (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications.

CERTAINTEED GYPSUM INC — Type X-1, SilentFX, GlasRoc, Type C

4W. **Gypsum Board*—** (As an alternate to Item 4 when Foam Plastic insulation Item 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field.

5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel —** (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

b. **Framing Members* —** Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6B. **Framing Members* — —** (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6D. **Steel Framing Members* —** (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members* —** (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6F. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.
MASON INDUSTRIES INC — Type CWC-50

7. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.
HOMASOTE CO — Homasote Type 440-32

8A. **Mineral and Fiber Board —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.
BLUE RIDGE FIBERBOARD INC — SoundStop

8B. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to studs with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M.
HOMASOTE CO — Homasote Type 440-32

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Adhesive —** Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

12. **Wall and Partition Facings and Accessories* —** (CLBV) (Optional, Not Shown) — For use with Items 1 to 1I, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud

as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3.

On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 4I with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

MSL — RefleXor membrane, SONOpan panel

13. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

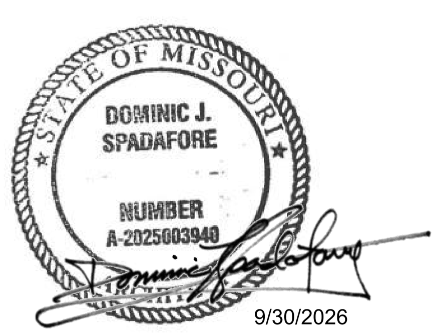
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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: ACI BOLAND
CHECKED BY: ACI BOLAND
DESIGNED BY: ACI BOLAND

SHEET TITLE:
UL FIRE RESISTANCE DESIGNS

SHEET NUMBER:
G-121

September 30, 2026

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Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

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UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

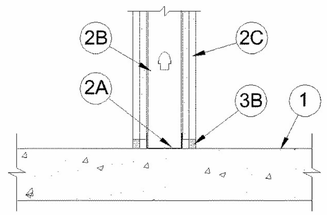
XHBN - Joint Systems

See General Information for Joint Systems

System No. BW-S-0003

November 18, 2008

Assembly Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Lin Ft (See Item 3B)
L Rating At 400°F — Less Than 1 CFM/Lin Ft (See Item 3B)
Joint Width — 3/4 In. Max



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***.

See **Precast Concrete Units** category in the Fire Resistance Directory for names of manufacturers.

2. **Wall Assembly —** The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:

A. **Steel Floor Runner —** Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** Gypsum board installed to a min total thickness of 5/8 in. (16 mm) or 1-1/4 in. (32 mm) on each side of wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 3/4 in. (19 mm) gap shall be maintained between the bottom of the gypsum board and the top of the concrete floor.
The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between top of floor and bottom of gypsum board is 3/4 in. (19 mm).** The joint system consists of a packing material and a fill material, as follows:

A. **Packing Material —** (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber insulation firmly packed into the gap between the bottom of the gypsum board and the top of the concrete floor and recessed from each surface of the wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*-Sealant —** Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall. When mineral wool batt insulation is used as a packing material, min thickness of fill material on each side of the wall is 1/4 in. (6 mm).
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant, SpecSeal LCI Sealant, SpecSeal LC150 Sealant, Pensil 300 Sealant or SpecSeal Series SIL300.

Note: L Ratings apply when SpecSeal ES Sealant is used.

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

Last Updated on 2008-11-18

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

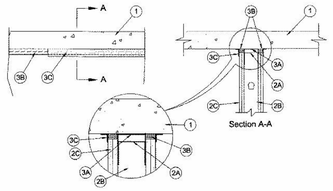
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0044

June 21, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1, 2, 3 and 4 Hr (See Item 2)	F Ratings — 1, 2, 3, and 4 Hr (See Item 2)
Nominal Joint Widths — 1-1/2 and 2-1/2 In. (See Item 3)	FT Ratings — 1, 2, 3, and 4 Hr (See Item 2)
Class II Movement Capabilities — 40 or 50% Compression or Extension (See Item 3)	FH Ratings — 1, 2, 3, and 4 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FTH Ratings — 1, 2, 3, and 4 Hr (See Item 2)
L Rating At 400 F — Less Than 1 CFM/Lin Ft	Nominal Joint Widths — 1-1/2 and 2-1/2 In. (See Item 3)
	Class II Movement Capabilities — 40 or 50% Compression or Extension (See Item 3)
	L Rating At Ambient — Less Than 1 CFM/Lin Ft
	L Rating At 400 F — Less Than 1 CFM/Lin Ft



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete.

2. **Wall Assembly —** 1, 2, 3 or 4 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When deflection channel (Item 3A) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a 3/4 to 1 in. (19 to 25 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 3/4 in. (19 mm) greater than nom joint width. Ceiling runner is secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** When nom joint width is less than or equal to 1-3/4 in. (45 mm), slotted ceiling runner may be used as an alternate to the ceiling runner in Item 2A. Slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* — Vertical Deflection Ceiling Runner —** When nom joint width is less than or equal to 1 in. (25 mm), vertical deflection ceiling runner may be used as an alternate to the ceiling runner in Items 3A and 3A1. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 4A) shall not be used.

A3. **Light Gauge Framing* — Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Vertical Deflection Clip* —** (Optional) — Steel clips can be used in conjunction with steel studs (Item 2B), ceiling runner (Item 2A) or deflection channel (Item 3A). Clips installed over the top of studs and inserted within the ceiling runner or deflection channel. Clip shall be secured to the ceiling runner or deflection channel with No. 8 self drilling, self tapping steel fasteners through holes provided within the clip. Clip may be secured to the stud with No. 6 pan head steel screw through holes provided within the clip. As an alternate, the legs of the clip may be installed over the top of the stud without attachment in accordance with manufacturer's installation instructions.
FLEX-ABILITY CONCEPTS L L C — Three Legged Dog Deflection Clip

A5. **Steel Framing Members* — Sound Isolation Clips —** (Not Shown, For Max 2 Hr Rating) — As an alternate attachment means for the ceiling runner to the underside of the floor when no deflection channel (Item 3A) is used, sound isolation clips installed in accordance with the accompanying installation instructions. Sound isolation clip installed through nom 1 in. (25 mm) diam hole in ceiling runner and attached to top of ceiling runner using four min No. 8 by 1/2 in. (13 mm) long self-tapping galv steel screws. Sound isolation clips to be installed adjacent to every stud location but not more than 24 in. (610 mm) OC and attached to the underside of floor assembly using min 3/16 in. (5 mm) diam by 2-1/2 in. (64 mm) long steel masonry anchors.
PAC INTERNATIONAL L L C — Type RSIC-U-HO

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 1 in. (13 to 25 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner (Item 2A) with sheet metal screws located 1/2 in. (13 mm) below the bottom to the deflection channel. When deflection channel is not used, studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at mid-height of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** Gypsum board sheets installed to a min total 5/8 in., 1-1/4 in., 1-1/2 in. or 2 in. (16, 32, 38 or 51 mm) thickness on each side of wall for 1, 2, 3 or 4 hr rated assemblies, respectively. Wall to be constructed as specified in the individual U400, V400 or W400 Series Design in the UL Fire Resistance Directory, except that a max 1 or 2-1/2 in. (25 or 64 mm) gap (See Item 3) shall be maintained between the top of the gypsum board and the lower surface of the floor . The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner or into the optional deflection channel.
The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between bottom of floor and top of gypsum board (at time of installation of joint system) is 2-1/2 in. (64 mm) for 1 and 2 hr ratings and 1 in. (25 mm) for 3 and 4 hr ratings. The joint system is designed to accommodate a max 50 percent compression or extension from its installed width for max 1-1/2 in. (38 mm) wide joints and a max 40 percent compression or extension from its installed width for max 2-1/2 in. (64 mm) wide joints.** The joint system shall consist of forming and fill materials, with or without a deflection channel (Item 3A), as follows:
A. **Deflection Channel —** (Optional) — Max 3 in. (76 mm) deep min 24 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1/2 to 3/4 in. (13 to 19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner nests inside the deflection channel without attachment.

B. **Forming Material* —** Sections of min 4 pcf (64 kg/m^3) density mineral wool batt compressed 50 percent in thickness and installed cut edge first to completely fill the gap between the top of the gypsum board and the bottom of the concrete floor. When sound isolation clips (Item 2A6) are used, the space between the top of the ceiling runner and the underside of the floor shall be tightly packed with mineral wool batt insulation. The forming material shall be installed flush with both surfaces of wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Safe

ROCKWOOL — Safe

THERMAFIBER INC — SAF

C. **Fill, Void or Cavity Material* — Sealant —** Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material spray applied on each side of the wall between the top of the wall and the bottom of the floor, and overlap a min 1/2 in. (13 mm) onto gypsum board on both sides of wall. Additional 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material shall overlap a min 1/2 in. (13 mm) onto the floor on both sides of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray

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Last Updated on 2023-06-21

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR



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Lenexa, KS, 66215
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Landworks Studio
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Olathe, KS, 66061
T: 913.780.6707

STRUCTURAL
Wallace Design Collective
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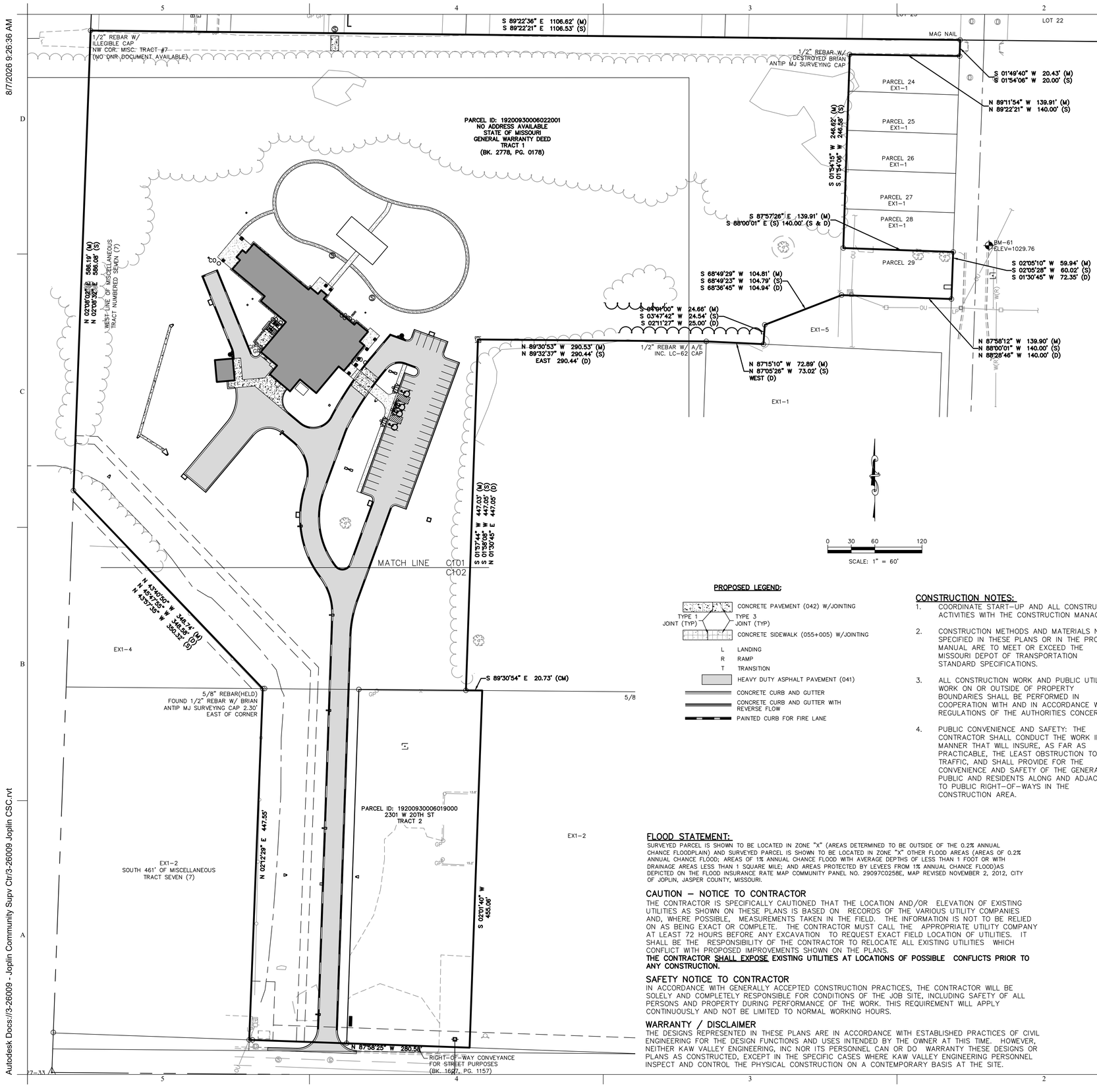
SHEET NUMBER:
G-122

8 OF 133

September 30, 2026

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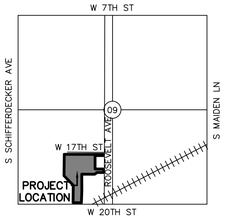


PROPOSED LEGEND:

- CONCRETE PAVEMENT (042) W/JOINTING (TYPE 1 JOINT (TYP), TYPE 3 JOINT (TYP))
- CONCRETE SIDEWALK (055+005) W/JOINTING
- L LANDING
- R RAMP
- T TRANSITION
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW
- PAINTED CURB FOR FIRE LANE

LEGEND:

- O 1/2" REBAR FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
- BENCHMARK
- CONTROL POINT
- OHU OVERHEAD UTILITY LINE (# OF LINES)
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE W/ LIGHT
- DEADMAN ANCHOR
- UGG UNDERGROUND GAS
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- SS SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- STREET/TRAFFIC SIGN
- GUARDRAIL
- 1025 EXISTING GRADE 5' CONTOUR
- 1024 EXISTING GRADE 1' CONTOUR
- B/B BACK TO BACK OF CURB MEASUREMENT
- E/E EDGE TO EDGE OF ASPHALT
- DECIDUOUS TREE
- TREE LINE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- WOOD FENCE
- GP GATE POST
- FP FENCE POST
- TREE DRIP LINE
- D/E DRAINAGE EASEMENT
- TCE TEMPORARY CONSTRUCTION EASEMENT
- PL PROPERTY LINE



VICINITY MAP
SEC 9 – TWP 27N – RNG 33W
NOT TO SCALE

HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE, WEST ZONE, 6–27–2012 (JS–008)
CAF: 0.99989575
1 METER = 3.28083333 U.S. SURVEY FEET
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES SCALED AROUND 0,0

JS–008 (PID–HE1217)

NORTHING: 101892.485 (GRID)(METERS) 334327.104 (GROUND)(U.S. SURVEY FEET)
EASTING: 845014.908 (GRID)(METERS) 2772642.188 (GROUND)(U.S. SURVEY FEET)
ELEV = 321.14 (METERS) 1053.61 (U.S. SURVEY FEET)

PROJECT BENCH MARKS:

BM–60
CHISELED SQUARE ON THE WEST END TOP OF CURB OF THE NORTH CURB LINE FOR THE JOPLIN CAFE PARKING LOT AND SOUTH OF WEST 20TH STREET.
ELEV = 1033.35

BM–61
CHISELED SQUARE ON THE EAST TOP OF CURB OF ROOSEVELT AVENUE ACROSS FROM HOUSE # 1722 ROOSEVELT AVENUE.
ELEV = 1029.76

BM–62
CHISELED SQUARE ON THE WEST EDGE OF A CONCRETE PAD FOR DRIVE ON THE WEST SIDE OF JEFFERSON AVENUE NORTH OF DEAD END AND SOUTHWEST OF JEFFERSON AVENUE AND WEST 17TH STREET INTERSECTION.
ELEV = 1021.56

BM–63
CHISELED SQUARE ON TOP OF THE SOUTH CURB LINE OF WEST 17TH STREET EAST OF A FULL HEIGHT TO ZERO HEIGHT TRANSITION CURB FOR A DRIVE AND NORTH OF A LIGHT POLE LABELED EDE419867 BETWEEN SOUTH MONROE AVENUE AND SOUTH MCKINLEY AVENUE.
ELEV = 1027.16

PROJECT CONTROL:

CP #200
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328872.221 (GROUND)
EASTING: 2776058.417 (GROUND)
ELEV = 1032.11

CP #201
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328863.347 (GROUND)
EASTING: 2776325.289 (GROUND)
ELEV = 1033.57

CP #202
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329320.773 (GROUND)
EASTING: 2776278.310 (GROUND)
ELEV = 1030.69

CP #203
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329838.743 (GROUND)
EASTING: 2776371.321 (GROUND)
ELEV = 1029.80

CP #204
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 329920.009 (GROUND)
EASTING: 2777026.385 (GROUND)
ELEV = 1030.46

CP #205
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330277.402 (GROUND)
EASTING: 2777033.924 (GROUND)
ELEV = 1028.15

CP #206
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330355.161 (GROUND)
EASTING: 2776086.591 (GROUND)
ELEV = 1023.34

CONSTRUCTION NOTES:

1. COORDINATE START–UP AND ALL CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION MANAGER.
2. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS OR IN THE PROJECT MANUAL ARE TO MEET OR EXCEED THE MISSOURI DEPOT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. ALL CONSTRUCTION WORK AND PUBLIC UTILITY WORK ON OR OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
4. PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO PUBLIC RIGHT–OF–WAYS IN THE CONSTRUCTION AREA.

FLOOD STATEMENT:

SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" OTHER FLOOD AREAS (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD)AS DEPICTED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 29097C0258E, MAP REVISED NOVEMBER 2, 2012, CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

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

WARRANTY / DISCLAIMER

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Know what's **below.** **Call** before you dig.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670SP.DWG DWN: JQN

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ENGINEER
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STATE OF MISSOURI
MIKE KEHOE,
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STATE OF MISSOURI — CHRISTIAN J. CROWDER — NUMBER PE-2015000538 — PROFESSIONAL ENGINEER — 9-30-26

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DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

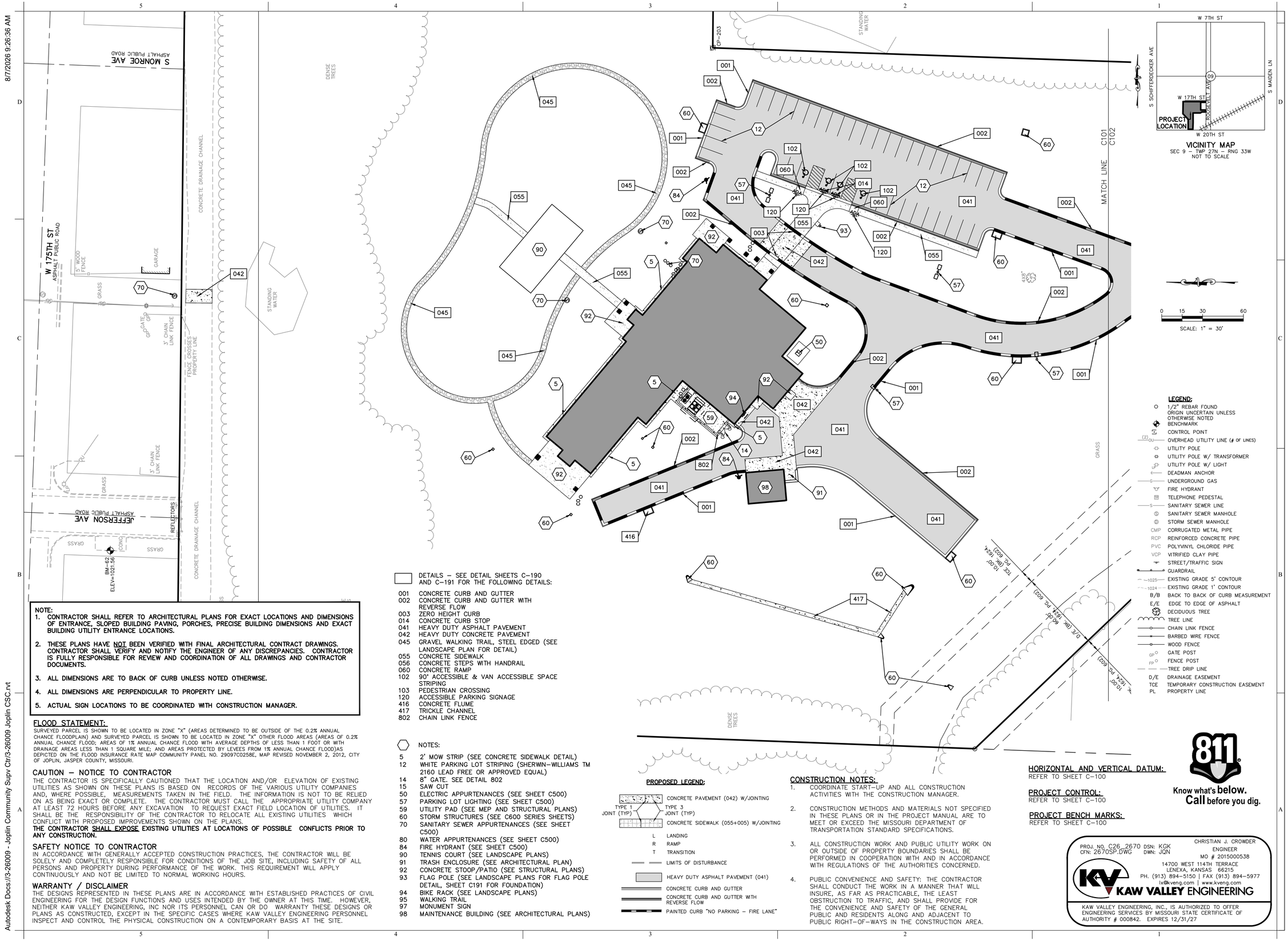
ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-100
9 OF 133
September 30, 2026

8/7/2026 9:26:36 AM
Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt



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- 001 CONCRETE CURB AND GUTTER
- 002 CONCRETE CURB AND GUTTER WITH REVERSE FLOW
- 003 ZERO HEIGHT CURB
- 014 CONCRETE CURB STOP
- 041 HEAVY DUTY ASPHALT PAVEMENT
- 042 HEAVY DUTY CONCRETE PAVEMENT
- 045 GRAVEL WALKING TRAIL, STEEL EDGED (SEE LANDSCAPE PLAN FOR DETAIL)
- 055 CONCRETE SIDEWALK
- 056 CONCRETE STEPS WITH HANDRAIL
- 060 CONCRETE RAMP
- 102 90° ACCESSIBLE & VAN ACCESSIBLE SPACE STRIPING
- 103 PEDESTRIAN CROSSING
- 120 ACCESSIBLE PARKING SIGNAGE
- 416 CONCRETE FLUME
- 417 TRICKLE CHANNEL
- 802 CHAIN LINK FENCE

NOTES:

- 5 2' MOW STRIP (SEE CONCRETE SIDEWALK DETAIL)
- 12 WHITE PARKING LOT STRIPING (SHERWIN–WILLIAMS TM 2160 LEAD FREE OR APPROVED EQUAL)
- 14 8" GATE. SEE DETAIL 802
- 15 SAW CUT
- 50 ELECTRIC APPURTENANCES (SEE SHEET C500)
- 57 PARKING LOT LIGHTING (SEE SHEET C500)
- 59 UTILITY PAD (SEE MEP AND STRUCTURAL PLANS)
- 60 STORM STRUCTURES (SEE C600 SERIES SHEETS)
- 70 SANITARY SEWER APPURTENANCES (SEE SHEET C500)
- 80 WATER APPURTENANCES (SEE SHEET C500)
- 84 FIRE HYDRANT (SEE SHEET C500)
- 90 TENNIS COURT (SEE LANDSCAPE PLANS)
- 91 TRASH ENCLOSURE (SEE ARCHITECTURAL PLAN)
- 92 CONCRETE STOOP/PATIO (SEE STRUCTURAL PLANS)
- 93 FLAG POLE (SEE LANDSCAPE PLANS FOR FLAG POLE DETAIL, SHEET C191 FOR FOUNDATION)
- 94 BIKE RACK (SEE LANDSCAPE PLANS)
- 95 WALKING TRAIL
- 97 MONUMENT SIGN
- 98 MAINTENANCE BUILDING (SEE ARCHITECTURAL PLANS)

PROPOSED LEGEND:

- CONCRETE PAVEMENT (042) W/JOINTING
- TYPE 1 JOINT (TYP) / TYPE 3 JOINT (TYP)
- CONCRETE SIDEWALK (055+005) W/JOINTING
- L LANDING
- R RAMP
- T TRANSITION
- LIMITS OF DISTURBANCE
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW
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HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

LEGEND:

- 1/2" REBAR FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
- BENCHMARK
- CONTROL POINT
- (2) OHL OVERHEAD UTILITY LINE (# OF LINES)
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE W/ LIGHT
- DEADMAN ANCHOR
- G UNDERGROUND GAS
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- S SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- STREET/TRAFFIC SIGN
- GUARDRAIL
- 1025 EXISTING GRADE 5' CONTOUR
- 1024 EXISTING GRADE 1' CONTOUR
- B/B BACK TO BACK OF CURB MEASUREMENT
- E/E EDGE TO EDGE OF ASPHALT
- DECIDUOUS TREE
- TREE LINE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- WOOD FENCE
- GP GATE POST
- FP FENCE POST
- TREE DRIP LINE
- D/E DRAINAGE EASEMENT
- TCE TEMPORARY CONSTRUCTION EASEMENT
- PL PROPERTY LINE

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PE-2015000538
9-30-26

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JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

SITE PLAN - NORTH

SHEET NUMBER:

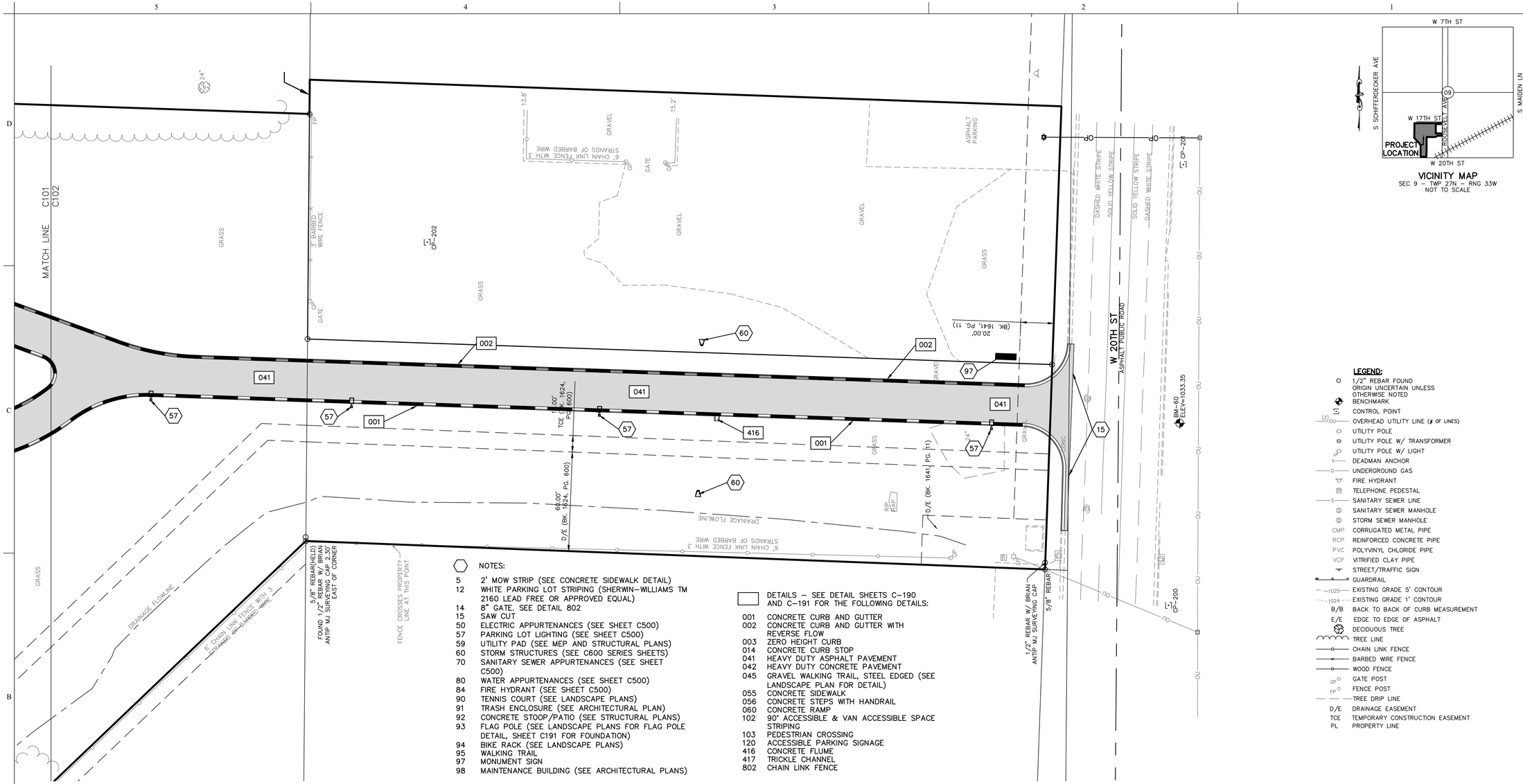
C-101

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September 30, 2026

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VICINITY MAP
SEC 9 – TWP 27N – RNG 33W
NOT TO SCALE

LEGEND:

- 1/2" REBAR FOUND
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- BENCHMARK
- CONTROL POINT
- (2) OU — OVERHEAD UTILITY LINE (# OF LINES)
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0 15 30 60
SCALE: 1" = 30'

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REFER TO SHEET C–100

PROJECT BENCH MARKS:

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MIKE KEHOE, GOVERNOR

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CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
9-30-26
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2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

SITE PLAN - SOUTH

SHEET NUMBER:

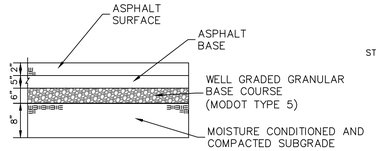
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11 OF 133

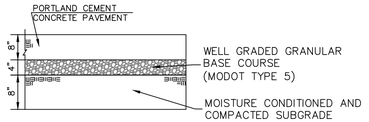
September 30, 2026

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8/7/2026 9:26:36 AM



HEAVY DUTY PAVEMENT 041



CONCRETE PAVEMENT 042

SEE NOTE 4 FOR REINFORCING OF CONCRETE PAVEMENT

1. FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY PROJECT SPECIFICATIONS.

   ASPHALT SURFACE COURSE – MODOT HMA

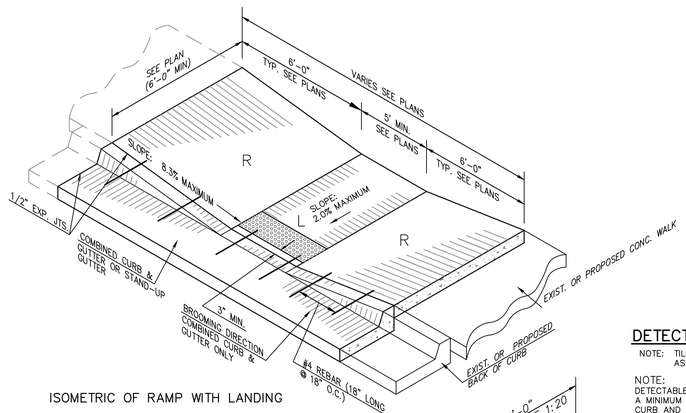
   ASPHALT BASE COURSE – MODOT HMA

2. RECYCLED MIXES MEETING APWA SPECIFICATIONS MAY BE CONSIDERED FOR SURFACE AND BASE COURSE.

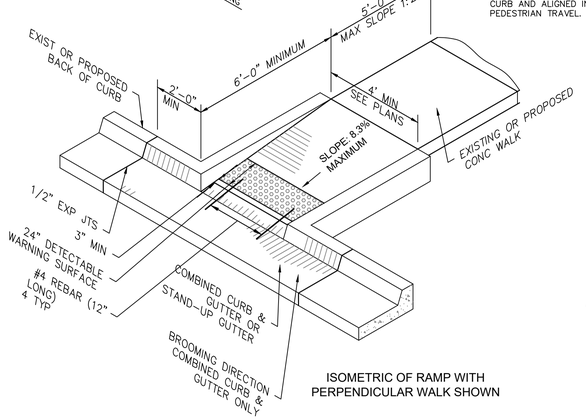
3. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, BE AIR ENTRAINED (6.5% ± 1.5%) AND COMPLY WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.

4. PROVIDE #4 BARS CENTERED IN SLAB AT 2' CENTERS EACH WAY THROUGH OUT CONCRETE PAVEMENT SECTION.

PAVING DETAILS

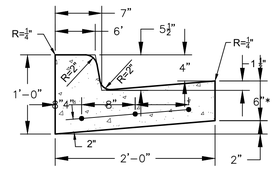


ISOMETRIC OF RAMP WITH LANDING

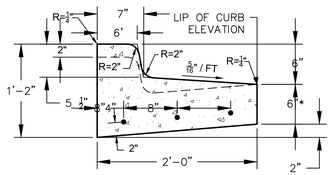


ISOMETRIC OF RAMP WITH PERPENDICULAR WALK SHOWN

SIDEWALK RAMPS 060



FULL HEIGHT TYPE "B" CURB 001



FULL HEIGHT DRY CURB

FULL HEIGHT CURB 002

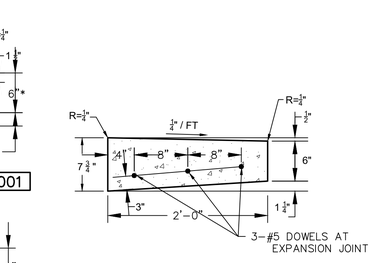
GUTTER DEPTH MAY VARY TO IMPROVE DRAINAGE

*INCREASE CURB THICKNESS ALONG EDGE OF PAVEMENT TO MATCH PAVEMENT THICKNESS. 7.5" MAXIMUM FOR 8" PAVING.

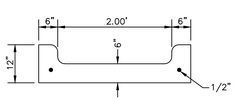
CURB & GUTTER NOTES:
1. 3/4" ISOLATION JOINTS WITH 5/8" DIA. x 2' SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. FIX DOWEL BARS WITH BAR SUPPORTS.
4. SEE SIDEWALK RAMP DETAILS FOR TYPICAL SIDEWALK RAMP CURB & GUTTER SECTIONS.
5. DETAILS AS SHOWN FOR CONCRETE AND ASPHALT PAVING. WHEN USED WITH CONCRETE PAVING POURED MONOLITHICALLY WITH CURB NO MODIFICATIONS ARE REQUIRED. WHEN CURB AND CONCRETE PAVING ARE TO BE POURED SEPARATELY #5 BARS, 24" LONG ARE TO BE PROVIDED TO TIE CURB TOGETHER WITH CONCRETE PAVING. PLACE AT 30" O.C.
6. CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.
7. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, BE AIR ENTRAINED (6.5% ± 1.5%) AND COMPLY WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.

CURB & GUTTER

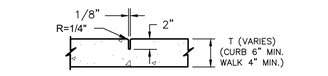
N.T.S



ZERO HEIGHT CURB 003

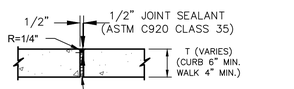


CONCRETE DRAINAGE FLUME 416



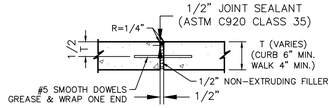
CONTRACTION JOINT - TYPE 3

NOTE:
1. TYPE 2 JOINTS SHALL BE PLACED AS NOTED AND AT ALL P.C.'S, P.T.'S AND TRANSITIONS, AND WHERE NEW CURB OR CONCRETE PAVEMENT TIES INTO EXISTING CURB OR CONCRETE PAVEMENT.
2. SMOOTH BARS SHALL BE 24" LONG SPACED AT 18" O.C.

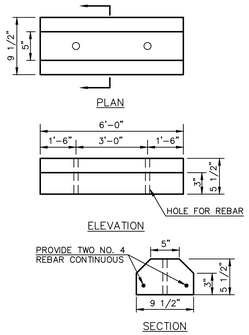


NOTE:
1. TYPE 1 JOINTS SHALL BE PLACED WHERE NEW CONCRETE ABUTS EXISTING CONCRETE AND IN AREAS WHERE CONCRETE ABUTS BUILDINGS. UNLESS NOTED OTHERWISE.

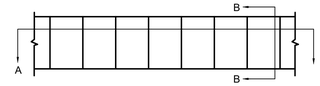
EXPANSION JOINT - TYPE 1

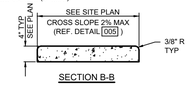


TYPE 2



CONCRETE WHEEL STOP 014

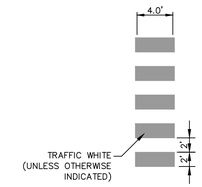




CONCRETE SIDEWALK 055

NOTE:
1. CONTRACTOR SHALL BACKFILL SIDEWALKS WITH TOPSOIL AND SEED IN ACCORDANCE WITH NOTES ON PLANS.

CONCRETE AND SIDEWALK NOTES:
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, BE AIR ENTRAINED (6.5% ± 1.5%) AND COMPLY WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.
2. REINFORCING STEEL SHALL BE GRADE 60 AND COMPLY WITH ASTM A615. EPOXY COATED BARS (IF NOTED) SHALL COMPLY WITH ASTM A775. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
3. WHERE SIDEWALK IS INSTALLED ADJACENT TO A STORM SEWER STRUCTURE, THE SIDEWALK SHALL BE DOWELED INTO THE STRUCTURE USING #4 REBAR AT 18" CENTERS. EXPANSION MATERIAL IS NOT REQUIRED WHERE DOWELS ARE USED. THE THICKNESS OF SIDEWALK SHALL BE INCREASED TO 6" TO MAINTAIN 2" COVER FOR REBAR.
4. SIDEWALKS TO BE BROOM FINISHED.
5. SUBGRADE TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.
6. SIDEWALK JOINTS MAY BE SAWN.



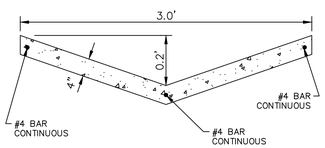
PEDESTRIAN CROSSWALK 103

NOT TO SCALE

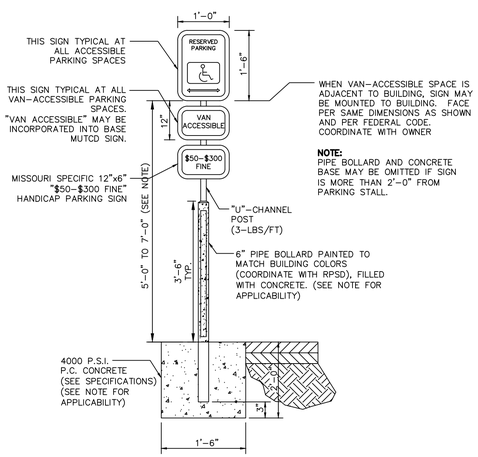
DETECTABLE WARNING SURFACE TILE 101

NOTE: TILE MATERIAL SHALL BE VITRIFIED POLYMER COMPOSITE AS MANUFACTURED BY ARMOR-TILE OR APPROVED EQUAL

NOTE:
DETECTABLE WARNING TILE TO BE PLACED A MINIMUM OF 3 INCHES FROM BACK OF CURB AND ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.

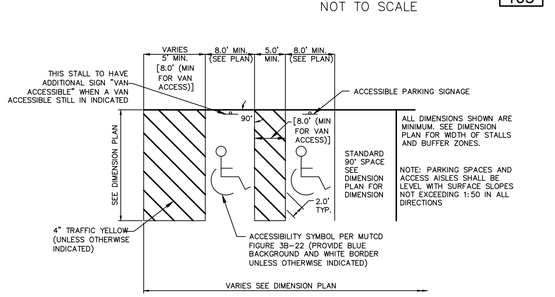


TRICKLE CHANNEL 417



ACCESSIBLE PARKING SIGN 120

HEIGHT ABOVE GRADE FOR POLE MOUNTED SIGNS VARIES. TYPICAL INSTALLATION IS 5'-0" ABOVE GRADE. SIGN SHALL BE MOUNTED AT 7'-0" IF IT FALLS WITHIN A WALKING PATH.



90° SPACE STRIPING

ACCESSIBLE STRIPING 102

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN

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MIKE KEHOE, GOVERNOR

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: JQN (Author)
CHECKED BY: KGK (Checker)
DESIGNED BY: KGK (Designer)

SHEET TITLE:

SITE DETAILS

SHEET NUMBER:

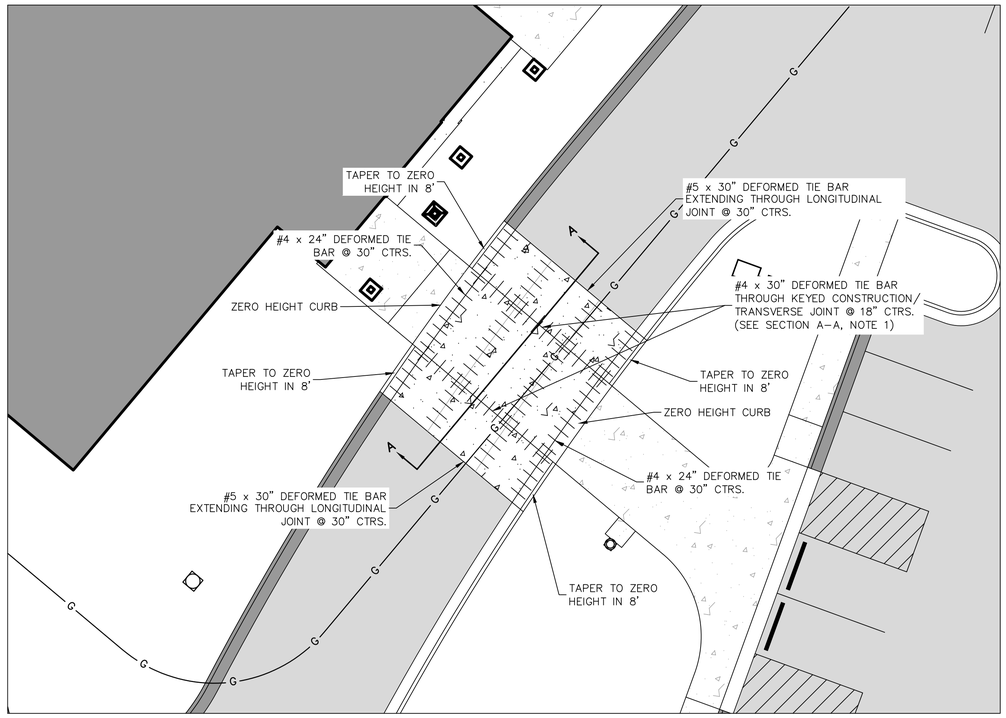
C-190

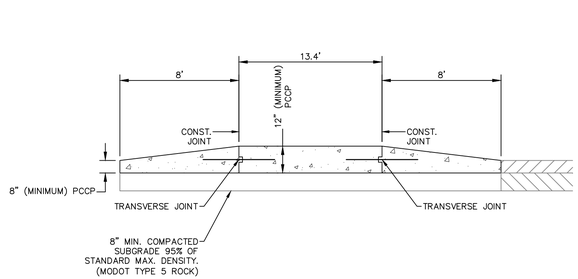
12 OF 133

September 30, 2026

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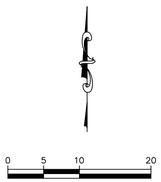
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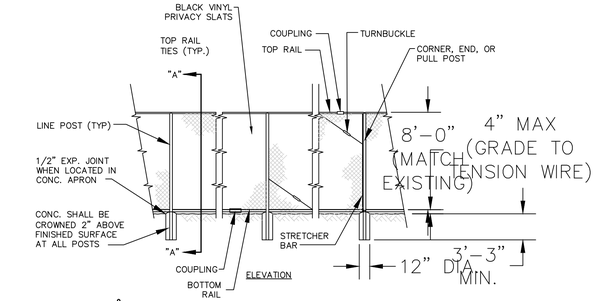




SECTION A–A
NOT TO SCALE

NOTES:
1. IF TRAVERSE JOINTS ARE CONSTRUCTED AS CONTRACTION JOINTS. CONTRACTOR SHALL INSTALL 1-1/4" x 18" DOWELS AT 12" O.C. IN SLAB.
2. ALL TIE BARS AND DOWELS SHALL BE EPOXY COATED.





CHAIN LINK FENCE 802
NTS

MATERIALS

A. STEEL CHAIN–LINK FENCE FABRIC:
1. MESH AND WIRE SIZE: 2 INCH MESH, 0.148 INCH DIAMETER (9 GAGE).
2. COATING: BLACK VINYL COATED .

B. FRAMEWORK:
1. ACCEPTABLE TYPES:
a. ASTM F1083, BLACK VINYL COATED ROUND STEEL PIPE, STANDARD WEIGHT (SCHEDULE 40), BLACK VINYL COATED WITH NOT LESS THAN 1.8 OZ./SQ. FT.
b. ROUND STEEL PIPE FROM ASTM A569 OR ASTM A446 STEEL; 50,00 PSI MINIMUM YIELD STRENGTH; IN COMPLIANCE WITH AASHTO M181 REQUIREMENTS FOR INTERIOR AND EXTERIOR COATINGS.
2. LINE POSTS: 2.375 INCHES DIAMETER O.D..
3. END, CORNER AND PULL POSTS: 2.875 INCHES DIAMETER O.D.
4. GATE POSTS (FOR NOMINAL WIDTH OF GATE LEAF):
a. UP TO 6 FEET – 2.875 INCHES DIAMETER O.D.
b. 6 TO 13 FEET – 4.000 INCHES DIAMETER O.D.
c. 13 TO 18 FEET – 6.625 INCHES DIAMETER O.D.
d. OVER 18 FEET – 8.625 INCHES DIAMETER O.D.
5. TOP RAIL: 1.66 INCHES DIAMETER O.D.; NOT LESS THAN 18 FEET LENGTHS; WITH EXPANSION TYPE COUPLINGS NOT LESS THAN 6 INCHES LONG,; PROVIDED WITH MEANS FOR SECURELY ATTACHING TOP RAIL TO EACH END, CORNER, PULL AND GATE POST.
6. BRACE RAIL: 1.66 DIAMETER O.D. ; TRUSSED TO LINE POSTS WITH 3/8 INCH DIAMETER ROD AND ADJUSTABLE TIGHTENER.
7. GATE FRAME: 1.90 INCHES DIAMETER O.D. HORIZONTAL AND VERTICAL MEMBERS PROVIDED TO ENSURE PROPER GATE OPERATION AND FOR ATTACHMENT OF FABRIC AND HARDWARE; MEMBERS SPACED NOT MORE THAN 8 FEET APART, RIGIDLY ASSEMBLED BY WELDING OR WITH SPECIAL FITTINGS; PROVIDE WITH 3/8 INCH DIAMETER ADJUSTABLE LENGTH TRUSS RODS.

C. POST TOPS: FURNISHED WITH OPENING TO PERMIT PASSAGE OF TOP RAIL; BLACK VINYL COATED; FITTED WITH CLIPS OR OTHER MEANS FOR ATTACHING CAPS

D. COUPLINGS, BANDS, CLIPS, WIRE TIES, TENSION BARS, FASTENERS AND FITTINGS: BLACK VINYL COATED.

E. BOTTOM RAIL: 1.66 INCHES DIAMETER O.D.; NOT LESS THAN 18 FEET LENGTHS; WITH EXPANSION TYPE COUPLINGS NOT LESS THAN 6 INCHES LONG,; PROVIDED WITH MEANS FOR SECURELY ATTACHING TOP RAIL TO EACH END, CORNER, PULL AND GATE POST.

F. GATE HARDWARE: BLACK VINYL COATED, SIZED TO ENSURE PROPER GATE OPERATION.
1. HINGES: NON–LIFT–OFF TYPE, OFFSET TO PERMIT 180 DEGREE GATE OPENING; 3 HINGES PER GATE LEAF.
2. LATCHES: PLUNGER – BAR TYPE, EXCEPT THAT FORKED TYPE MAY BE PROVIDED FOR PERSONNEL GATES; WITH LOCKING DEVICE AND PADLOCK EYES AS INTEGRAL PART OF LATCH.
3. KEEPERS: MECHANICAL DEVICE WHICH AUTOMATICALLY ENGAGES GATE LEAF AND HOLDS IT IN OPEN POSITION UNTIL MANUALLY RELEASED; PROVIDED AT VEHICLE GATES.
4. STOPS: GATE STOP PIPE TO ENGAGE CENTER DROP ROD; PROVIDED AT DOUBLE GATES.

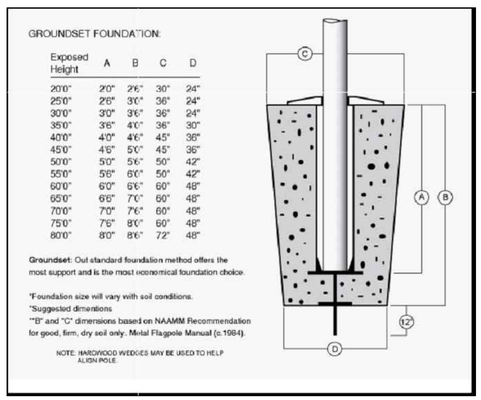
G. PRIVACY SLATS – BLACK VINYL PRIVACY SLATS, PER FENCE MANUFACTURER RECOMMENDATION

H. CONCRETE: AS SPECIFIED IN SECTION 033000.

INSTALLATION

I. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. COMPLY WITH ASTM F 567. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE. COORDINATE WITH WORK OF OTHER SECTIONS. INSTALL POSTS TO DEPTH TO AVOID FROST HEAVE.

J. CUT PIPE WITH PIPE–CUTTERS ONLY. CUTTING WITH BACKSAWS IS NOT ACCEPTABLE. TACK WELD GATES FOR STRENGTH. USE SPRING LOADED LATCHES, NOT YOKES.


GROUNDSET FOUNDATION:

Exposed Height	A	B	C	D
20'0"	2'0"	2'6"	30"	24"
25'0"	2'6"	3'0"	36"	24"
30'0"	3'0"	3'6"	36"	24"
35'0"	3'6"	4'0"	36"	30"
40'0"	4'0"	4'6"	45"	36"
45'0"	4'6"	5'0"	45"	36"
50'0"	5'0"	5'6"	50"	42"
55'0"	5'6"	6'0"	50"	42"
60'0"	6'0"	6'6"	60"	48"
65'0"	6'6"	7'0"	60"	48"
70'0"	7'0"	7'6"	60"	48"
75'0"	7'5"	8'0"	60"	48"
80'0"	8'0"	8'6"	72"	48"

Groundset: Out standard foundation method offers the most support and is the most economical foundation choice.

*Foundation size will vary with soil conditions.
*Suggested dimensions
**"B" and "C" dimensions based on NAAMM Recommendation for good, firm, dry soil only: Metal Flagpole Manual (c.1984).

NOTE: HARDWOOD WEDGES MAY BE USED TO HELP ALIGN POLE

NOTES:
1. MANUFACTURERS FOUNDATION DETAIL AND REQUIREMENTS SHALL GOVERN

FLAG POLE BASE DETAIL 815

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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

SITE DETAILS

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN

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SHEET NUMBER:

C-191
13 OF 133

September 30, 2026

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HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE, WEST ZONE, 6-27-2012 (JS-008)
CAF: 0.99989575
1 METER = 3.28083333 U.S. SURVEY FEET
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES SCALED AROUND 0,0

JS-008 (PID-HE1217)

NORTHING: 101892.485 (GRID)(METERS) 334327.104 (GROUND)(U.S. SURVEY FEET)
EASTING: 845014.908 (GRID)(METERS) 2772642.188 (GROUND)(U.S. SURVEY FEET)
ELEV = 321.14 (METERS) 1053.61 (U.S. SURVEY FEET)

PROJECT BENCH MARKS:

BM-60
CHISELED SQUARE ON THE WEST END TOP OF CURB OF THE NORTH CURB LINE FOR THE JOPLIN CAFE PARKING LOT AND SOUTH OF WEST 20TH STREET.
ELEV = 1033.35

BM-61
CHISELED SQUARE ON THE EAST TOP OF CURB OF ROOSEVELT AVENUE ACROSS FROM HOUSE # 1722 ROOSEVELT AVENUE.
ELEV = 1029.76

BM-62
CHISELED SQUARE ON THE WEST EDGE OF A CONCRETE PAD FOR DRIVE ON THE WEST SIDE OF JEFFERSON AVENUE NORTH OF DEAD END AND SOUTHWEST OF JEFFERSON AVENUE AND WEST 17TH STREET INTERSECTION.
ELEV = 1021.56

BM-63
CHISELED SQUARE ON TOP OF THE SOUTH CURB LINE OF WEST 17TH STREET EAST OF A FULL HEIGHT TO ZERO HEIGHT TRANSITION CURB FOR A DRIVE AND NORTH OF A LIGHT POLE LABELED ED5419867 BETWEEN SOUTH MONROE AVENUE AND SOUTH MCKINLEY AVENUE.
ELEV = 1027.16

PROJECT CONTROL:

CP #200
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328872.221 (GROUND)
EASTING: 2776058.417 (GROUND)
ELEV = 1032.11

CP #201
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328863.347 (GROUND)
EASTING: 2776325.289 (GROUND)
ELEV = 1033.57

CP #202
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329320.773 (GROUND)
EASTING: 2776278.310 (GROUND)
ELEV = 1030.69

CP #203
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329838.743 (GROUND)
EASTING: 2776371.321 (GROUND)
ELEV = 1029.80

CP #204
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 329920.009 (GROUND)
EASTING: 2777026.385 (GROUND)
ELEV = 1030.46

CP #205
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330277.402 (GROUND)
EASTING: 2777033.924 (GROUND)
ELEV = 1028.15

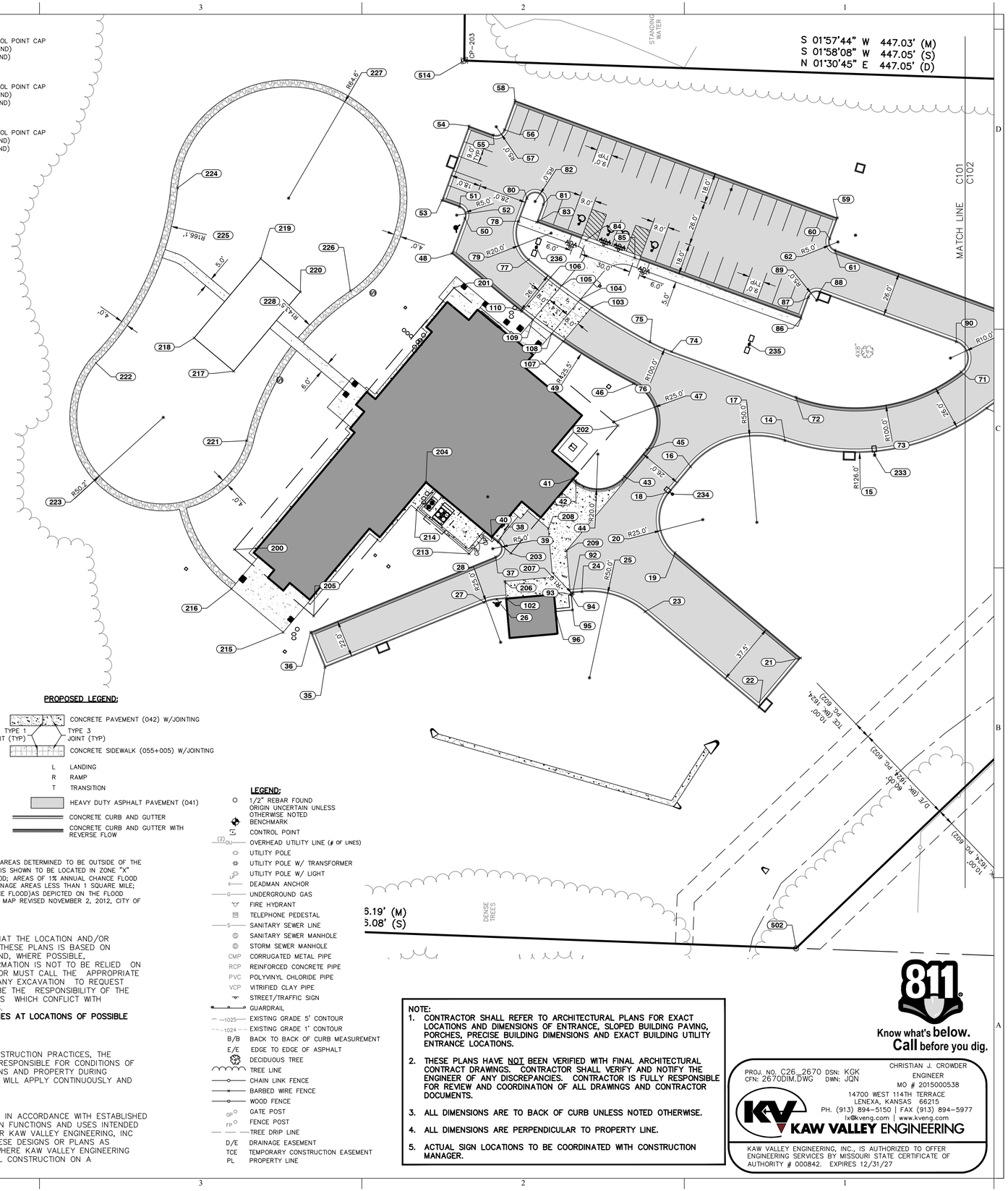
CP #206
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330355.161 (GROUND)
EASTING: 2776086.591 (GROUND)
ELEV = 1023.34

COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
1	328937.38	2776103.75	BC
2	328936.44	2776141.09	BC
3	328960.57	2776166.71	BC
4	328961.43	2776141.72	R25
5	329143.45	2776172.99	BC
6	329143.97	2776172.50	BC
7	329144.05	2776170.01	BC
8	329147.05	2776170.11	BC
9	329146.96	2776172.61	BC
10	329147.45	2776173.12	BC
11	329487.91	2776184.81	BC
12	329535.82	2776169.61	BC
13	329490.49	2776109.86	R75
14	329652.92	2776150.83	BC
15	329611.98	2776269.99	R126
16	329707.47	2776135.68	BC
17	329669.17	2776103.54	R50
18	329719.66	2776121.15	BC
19	329716.58	2776085.93	BC
20	329700.51	2776105.08	R25
21	329643.80	2776024.87	BC
22	329667.91	2775996.14	BC
23	329734.08	2776051.66	BC
24	329770.58	2776063.17	BC
25	329766.22	2776013.36	R50
26	329819.91	2776058.86	BC
27	329827.16	2776057.10	BC
28	329817.73	2776033.95	R25
35	329919.59	2776019.45	BC
36	329927.89	2776039.83	BC
37	329820.59	2776083.53	BC
38	329819.04	2776092.08	BC
39	329822.26	2776088.25	R5
40	329822.94	2776095.35	BC
41	329775.75	2776129.02	BC
42	329774.20	2776127.72	BC
43	329746.02	2776130.18	BC
44	329761.34	2776143.04	R20
45	329733.05	2776145.64	BC
46	329740.60	2776183.85	BC
47	329752.20	2776161.71	R25
48	329845.95	2776259.41	BC
49	329543.08	2776560.72	R425.5
50	329838.48	2776279.93	BC
51	329841.47	2776286.34	BC
52	329843.18	2776281.64	R5
53	329851.80	2776290.10	BC
54	329836.07	2776333.33	BC
55	329821.98	2776328.20	EC
56	329815.57	2776331.19	BC
57	329820.27	2776332.90	R5
58	329809.41	2776348.10	BC
59	329622.41	2776280.04	BC
60	329626.86	2776267.82	BC
61	329623.87	2776261.42	BC
62	329622.16	2776266.11	R5
63	329506.94	2776218.86	BC
64	329460.78	2776209.90	BC
65	329455.63	2776359.81	R150
66	328959.27	2776192.68	BC
67	328933.42	2776216.76	BC
68	328958.41	2776217.66	R25
69	328929.43	2776216.62	SAW CUT
70	328933.38	2776103.65	SAW CUT
71	329550.86	2776190.84	BC
72	329646.47	2776176.13	BC
73	329611.98	2776269.99	R100
74	329718.52	2776202.60	BC

COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
75	329731.09	2776208.23	BC
76	329684.03	2776296.47	R100
77	329801.35	2776255.94	BC
78	329807.24	2776278.06	BC
79	329788.44	2776271.22	R20
80	329802.42	2776291.29	BC
81	329793.02	2776287.87	BC
82	329797.72	2776289.58	R5
83	329796.79	2776277.53	BC
84	329768.13	2776267.10	BC
85	329739.94	2776256.84	BC
86	329643.62	2776221.78	BC
87	329639.17	2776234.00	BC
88	329632.76	2776236.98	BC
89	329634.47	2776232.29	R5
90	329553.55	2776208.15	BC
91	329556.97	2776198.76	R10
92	329775.85	2776062.71	BC
93	329776.76	2776061.63	BC
94	329776.74	2776061.45	BC
95	329775.98	2776052.68	BC
96	329785.87	2776051.81	BC
102	329814.42	2776059.34	BC
103	329764.75	2776228.37	BC
104	329771.39	2776232.90	BC
105	329782.31	2776240.78	BC
106	329788.68	2776245.64	BC
107	329781.56	2776208.34	BC
108	329788.17	2776212.90	BC
109	329799.05	2776220.83	BC
110	329805.40	2776225.71	BC
200	329972.08	2776087.75	BLDG ENVELOPE
201	329844.78	2776239.46	BLDG ENVELOPE
202	329749.67	2776159.66	BLDG ENVELOPE
203	329811.82	2776085.59	BLDG ENVELOPE
204	329861.00	2776126.80	BLDG ENVELOPE
205	329926.12	2776049.19	BLDG ENVELOPE
206	329815.29	2776069.30	EC
207	329787.61	2776071.72	EC
208	329790.08	2776100.00	EC
209	329779.50	2776087.18	EC
213	329835.90	2776085.24	EC
214	329866.44	2776110.87	EC
215	329943.79	2776039.76	EC
216	329973.79	2776064.93	EC
217	329972.44	2776191.15	EC
218	329995.42	2776210.44	EC
219	329956.85	2776256.40	EC
220	329933.87	2776237.12	EC
221	329964.98	2776150.85	EG
222	330052.32	2776195.90	EG
223	330013.31	2776164.34	R50.2
224	330004.99	2776297.42	EG
225	330170.40	2776312.74	R166.1
226	329904.82	2776237.72	EG
227	329940.67	2776291.46	R64.6
228	329825.18	2776118.31	R143.5
229	328979.41	2776165.35	LP
230	329216.60	2776173.50	LP
231	329366.60	2776178.65	LP
232	329487.98	2776182.82	LP
233	329600.86	2776142.47	LP
234	329718.13	2776119.87	LP
235	329673.57	2776206.73	LP
236	329797.02	2776263.00	LP
500	328946.98	2776080.18	PROPERTY CORNER
501	329394.20	2776097.42	PROPERTY CORNER
502	329646.41	2775856.57	PROPERTY CORNER

COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
503	330232.19	2775878.40	PROPERTY CORNER
504	330220.15	2776984.95	PROPERTY CORNER
505	330199.74	2776984.30	PROPERTY CORNER
506	330201.69	2776844.41	PROPERTY CORNER
507	329955.21	2776836.21	PROPERTY CORNER
508	329950.22	2776976.03	PROPERTY CORNER
509	329890.32	2776973.85	PROPERTY CORNER
510	329895.28	2776834.04	PROPERTY CORNER
511	329857.42	2776736.31	PROPERTY CORNER
512	329832.82	2776734.58	PROPERTY CORNER
513	329836.31	2776661.78	PROPERTY CORNER
514	329838.77	2776371.26	PROPERTY CORNER
515	329392.01	2776355.95	PROPERTY CORNER
516	329391.84	2776376.69	PROPERTY CORNER
517	328937.06	2776360.59	PROPERTY CORNER

0 15 30 60
SCALE: 1" = 30'



PROPOSED LEGEND:

- CONCRETE PAVEMENT (042) W/JOINTING
- TYPE 1 JOINT (TYP)
- TYPE 3 JOINT (TYP)
- CONCRETE SIDEWALK (055+005) W/JOINTING
- L LANDING
- R RAMP
- T TRANSITION
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW

LEGEND:

- 1/2" REBAR FOUND
- ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
- BENCHMARK
- CONTROL POINT
- (2) OU OVERHEAD UTILITY LINE (# OF LINES)
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE W/ LIGHT
- DEADMAN ANCHOR
- G UNDERGROUND GAS
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- S SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- STREET/TRAFFIC SIGN
- GUARDRAIL
- 1025 EXISTING GRADE 5' CONTOUR
- 1024 EXISTING GRADE 1' CONTOUR
- B/B BACK TO BACK OF CURB MEASUREMENT
- E/E EDGE TO EDGE OF ASPHALT
- DECIDUOUS TREE
- TREE LINE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- WOOD FENCE
- GP GATE POST
- FP FENCE POST
- TREE DRIP LINE
- D/E DRAINAGE EASEMENT
- TCE TEMPORARY CONSTRUCTION EASEMENT
- PL PROPERTY LINE

FLOOD STATEMENT:

SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" OTHER FLOOD AREAS (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD)AS DEPICTED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 29097C0258E, MAP REVISED NOVEMBER 2, 2012, CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

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

WARRANTY / DISCLAIMER

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

NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED BUILDING PAVING, PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
5. ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.

Know what's **below.** **Call** before you dig.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DIM.DWG DWN: JQN

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
PH. (913) 894-5150 | FAX (913) 894-5977
lx@kveng.com | www.kveng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

ACI BOLAND ARCHITECTS

ACI/Boland, Inc.
Kansas City
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CIVIL
Kaw Valley Engineering Inc
14700 W. 114th Terrace
Lenexa, KS, 66215
T: 913.894.5150

LANDSCAPE
Landworks Studio
102 S Cherry St.
Olathe, KS, 66061
T: 913.780.6707

STRUCTURAL
Wallace Design Collective
1703 Wyandotte St. Ste 200
Kansas City, MO, 64108
T: 816.421.8282

MEP
Lankford | Fendler + Associates
1740 Walnut St
Kansas City, MO, 64108
T: 816.221.1411

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:
DIMENSION PLAN - NORTH

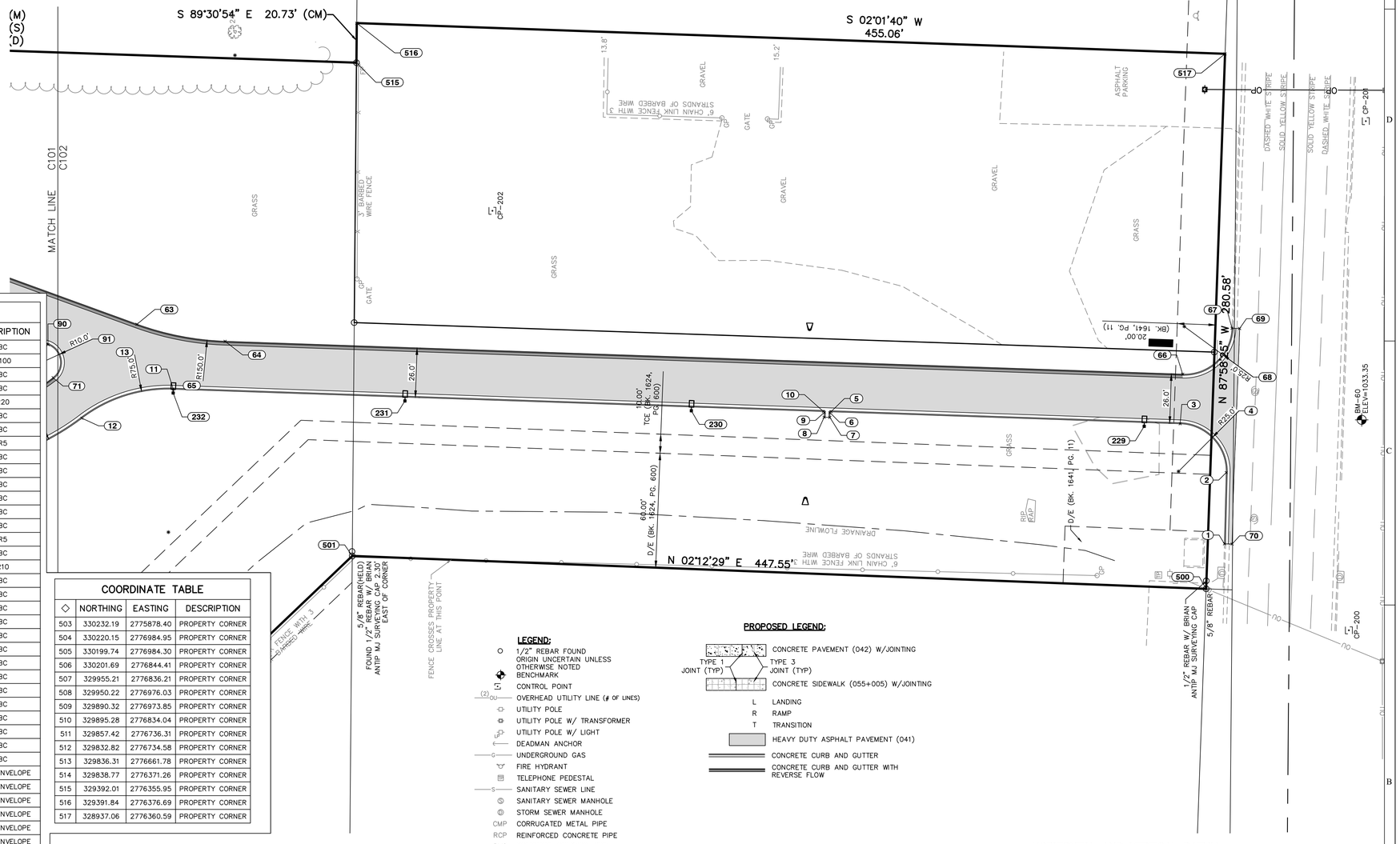
SHEET NUMBER:
C-200
14 OF 133
September 30, 2026

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

8/7/2026 9:26:36 AM

CONSTRUCTION NOTES:

1. COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION MANAGER.
2. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS OR IN THE PROJECT MANUAL ARE TO MEET OR EXCEED THE MISSOURI DEPOT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. ALL CONSTRUCTION WORK AND PUBLIC UTILITY WORK ON OR OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
4. PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO PUBLIC RIGHT-OF-WAYS IN THE CONSTRUCTION AREA.



COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
1	328937.38	2776103.75	BC
2	328936.44	2776141.09	BC
3	328960.57	2776166.71	BC
4	328961.43	2776141.72	R25
5	329143.45	2776172.99	BC
6	329143.97	2776172.50	BC
7	329144.05	2776170.01	BC
8	329147.05	2776170.11	BC
9	329146.96	2776172.61	BC
10	329147.45	2776173.12	BC
11	329487.91	2776184.81	BC
12	329535.82	2776169.61	BC
13	329490.49	2776109.86	R75
14	329652.92	2776150.83	BC
15	329611.98	2776269.99	R126
16	329707.47	2776135.68	BC
17	329669.17	2776103.54	R50
18	329719.66	2776121.15	BC
19	329716.58	2776085.93	BC
20	329700.51	2776105.08	R25
21	329643.80	2776024.87	BC
22	329667.91	2775996.14	BC
23	329734.08	2776051.66	BC
24	329770.58	2776063.17	BC
25	329766.22	2776013.36	R50
26	329819.91	2776058.86	BC
27	329827.16	2776057.10	BC
28	329817.73	2776033.95	R25
35	329919.59	2776019.45	BC
36	329927.89	2776039.83	BC
37	329820.59	2776083.53	BC
38	329819.04	2776092.08	BC
39	329822.26	2776088.25	R5
40	329822.94	2776095.35	BC
41	329775.75	2776129.02	BC
42	329774.20	2776127.72	BC
43	329746.02	2776130.18	BC
44	329761.34	2776143.04	R20
45	329733.05	2776145.64	BC
46	329740.60	2776183.85	BC
47	329752.20	2776161.71	R25
48	329845.95	2776259.41	BC
49	329543.08	2776560.72	R425.5
50	329838.48	2776279.93	BC
51	329841.47	2776286.34	BC
52	329843.18	2776281.64	R5
53	329851.80	2776290.10	BC
54	329836.07	2776333.33	BC
55	329821.98	2776328.20	BC
56	329815.57	2776331.19	BC
57	329820.27	2776332.90	R5
58	329809.41	2776348.10	BC
59	329622.41	2776280.04	BC
60	329626.86	2776267.82	BC
61	329623.87	2776261.42	BC
62	329622.16	2776266.11	R5
63	329506.94	2776218.86	BC
64	329460.78	2776209.90	BC
65	329455.63	2776359.81	R150
66	329859.27	2776192.68	BC
67	329833.42	2776216.76	BC
68	328958.41	2776217.66	R25
69	329829.43	2776216.62	SAW CUT
70	329833.38	2776103.65	SAW CUT
71	329550.86	2776190.84	BC
72	329646.47	2776176.13	BC
73	329611.98	2776269.99	R100
74	329718.52	2776202.60	BC

COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
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76	329684.03	2776296.47	R100
77	329801.35	2776255.94	BC
78	329807.24	2776278.06	BC
79	329788.44	2776271.22	R20
80	329802.42	2776291.29	BC
81	329793.02	2776287.87	BC
82	329797.72	2776289.58	R5
83	329796.79	2776277.53	BC
84	329768.13	2776267.10	BC
85	329739.94	2776256.84	BC
86	329643.62	2776221.78	BC
87	329639.17	2776234.00	BC
88	329632.76	2776236.98	BC
89	329634.47	2776232.29	R5
90	329553.55	2776208.15	BC
91	329556.97	2776198.76	R10
92	329775.85	2776062.71	BC
93	329776.76	2776061.63	BC
94	329776.74	2776061.45	BC
95	329775.98	2776052.68	BC
96	329785.87	2776051.81	BC
102	329814.42	2776059.34	BC
103	329764.75	2776228.37	BC
104	329771.39	2776232.90	BC
105	329782.31	2776240.78	BC
106	329788.68	2776245.64	BC
107	329781.56	2776208.34	BC
108	329788.17	2776212.90	BC
109	329799.05	2776220.83	BC
110	329805.40	2776225.71	BC
200	329972.08	2776087.75	BLDG ENVELOPE
201	329844.78	2776239.46	BLDG ENVELOPE
202	329749.67	2776159.66	BLDG ENVELOPE
203	329811.82	2776085.59	BLDG ENVELOPE
204	329861.00	2776126.80	BLDG ENVELOPE
205	329926.12	2776049.19	BLDG ENVELOPE
206	329815.29	2776069.30	EC
207	329787.61	2776071.72	EC
208	329790.08	2776100.00	EC
209	329779.50	2776087.18	EC
213	329835.90	2776085.24	EC
214	329866.44	2776110.87	EC
215	329943.79	2776039.76	EC
216	329973.79	2776064.93	EC
217	329972.44	2776191.15	EC
218	329995.42	2776210.44	EC
219	329956.85	2776256.40	EC
220	329933.87	2776237.12	EC
221	329964.98	2776150.85	EG
222	330052.32	2776195.90	EG
223	330013.31	2776164.34	R50.2
224	330004.99	2776297.42	EG
225	330170.40	2776312.74	R166.1
226	329904.82	2776237.72	EG
227	329940.67	2776291.46	R64.6
228	329825.18	2776118.31	R143.5
229	329979.41	2776165.35	LP
230	329216.60	2776173.50	LP
231	329366.60	2776178.65	LP
232	329487.98	2776182.82	LP
233	329600.86	2776142.47	LP
234	329718.13	2776119.87	LP
235	329673.57	2776206.73	LP
236	329797.02	2776263.00	LP
500	328946.98	2776080.18	PROPERTY CORNER
501	329394.20	2776097.42	PROPERTY CORNER
502	329646.41	2775856.57	PROPERTY CORNER

COORDINATE TABLE			
◇	NORTHING	EASTING	DESCRIPTION
503	330232.19	2775878.40	PROPERTY CORNER
504	330220.15	2776984.95	PROPERTY CORNER
505	330199.74	2776984.30	PROPERTY CORNER
506	330201.69	2776844.41	PROPERTY CORNER
507	329955.21	2776836.21	PROPERTY CORNER
508	329950.22	2776976.03	PROPERTY CORNER
509	329890.32	2776973.85	PROPERTY CORNER
510	329895.28	2776834.04	PROPERTY CORNER
511	329857.42	2776736.31	PROPERTY CORNER
512	329832.82	2776734.58	PROPERTY CORNER
513	329836.31	2776661.78	PROPERTY CORNER
514	329838.77	2776371.26	PROPERTY CORNER
515	329392.01	2776355.95	PROPERTY CORNER
516	329391.84	2776376.69	PROPERTY CORNER
517	328937.06	2776360.59	PROPERTY CORNER

0 15 30 60
SCALE: 1" = 30'

LEGEND:

- 1/2" REBAR FOUND
- ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
- BENCHMARK
- CONTROL POINT
- (2) OU — OVERHEAD UTILITY LINE (# OF LINES)
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE W/ LIGHT
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- G — UNDERGROUND GAS
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- FP — FENCE POST
- TREE DRIP LINE
- D/E — DRAINAGE EASEMENT
- TCE — TEMPORARY CONSTRUCTION EASEMENT
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PROPOSED LEGEND:

- CONCRETE PAVEMENT (042) W/JOINTING
- TYPE 1 JOINT (TYP) / TYPE 3 JOINT (TYP)
- CONCRETE SIDEWALK (055+005) W/JOINTING
- L — LANDING
- R — RAMP
- T — TRANSITION
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW

PROJECT CONTROL:

CP #200
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328872.221 (GROUND)
EASTING: 2776058.417 (GROUND)
ELEV = 1032.11

CP #201
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328863.347 (GROUND)
EASTING: 2776325.289 (GROUND)
ELEV = 1033.57

CP #202
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329320.773 (GROUND)
EASTING: 2776278.310 (GROUND)
ELEV = 1030.69

CP #203
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329838.743 (GROUND)
EASTING: 2776371.321 (GROUND)
ELEV = 1029.80

CP #204
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 329920.009 (GROUND)
EASTING: 2777026.385 (GROUND)
ELEV = 1030.46

CP #205
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330277.402 (GROUND)
EASTING: 2777033.924 (GROUND)
ELEV = 1028.15

CP #206
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330355.161 (GROUND)
EASTING: 2776086.591 (GROUND)
ELEV = 1023.34

HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE, WEST ZONE, 6-27-2012 (JS-008)
CAF: 0.99989575
1 METER = 3.28083333 U.S. SURVEY FEET
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES SCALED AROUND 0,0

JS-008 (PID-HE1217)
NORTHING: 101892.485 (GRID)(METERS) 334327.104 (GROUND)(U.S. SURVEY FEET)
EASTING: 845014.908 (GRID)(METERS) 2772642.188 (GROUND)(U.S. SURVEY FEET)
ELEV = 321.14 (METERS) 1053.61 (U.S. SURVEY FEET)

PROJECT BENCH MARKS:

BM-60
CHISELED SQUARE ON THE WEST END TOP OF CURB OF THE NORTH CURB LINE FOR THE JOPLIN CAFE PARKING LOT AND SOUTH OF WEST 20TH STREET.
ELEV = 1033.35

BM-61
CHISELED SQUARE ON THE EAST TOP OF CURB OF ROOSEVELT AVENUE ACROSS FROM HOUSE # 1722 ROOSEVELT AVENUE.
ELEV = 1029.76

BM-62
CHISELED SQUARE ON THE WEST EDGE OF A CONCRETE PAD FOR DRIVE ON THE WEST SIDE OF JEFFERSON AVENUE NORTH OF DEAD END AND SOUTHWEST OF JEFFERSON AVENUE AND WEST 17TH STREET INTERSECTION.
ELEV = 1021.56

BM-63
CHISELED SQUARE ON TOP OF THE SOUTH CURB LINE OF WEST 17TH STREET EAST OF A FULL HEIGHT TO ZERO HEIGHT TRANSITION CURB FOR A DRIVE AND NORTH OF A LIGHT POLE LABELED EDE419867 BETWEEN SOUTH MONROE AVENUE AND SOUTH MCKINLEY AVENUE.
ELEV = 1027.16

FLOOD STATEMENT:

SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" OTHER FLOOD AREAS (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD)AS DEPICTED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 29097C0258E, MAP REVISED NOVEMBER 2, 2012, CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

CAUTION – NOTICE TO CONTRACTOR

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

SAFETY NOTICE TO CONTRACTOR

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

WARRANTY / DISCLAIMER

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

NOTE:
1. **CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED BUILDING PAVING, PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.**
2. **THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.**
3. **ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.**
4. **ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.**
5. **ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.**

811 Know what's below. Call before you dig.

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KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27
PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DIM.DWG DWN: JQN

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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Kansas City, MO, 64108
T: 816.421.8282

MEP
Lankford | Fendler + Associates
1740 Walnut St
Kansas City, MO, 64108
T: 816.221.1411

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ___
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

DIMENSION PLAN - SOUTH

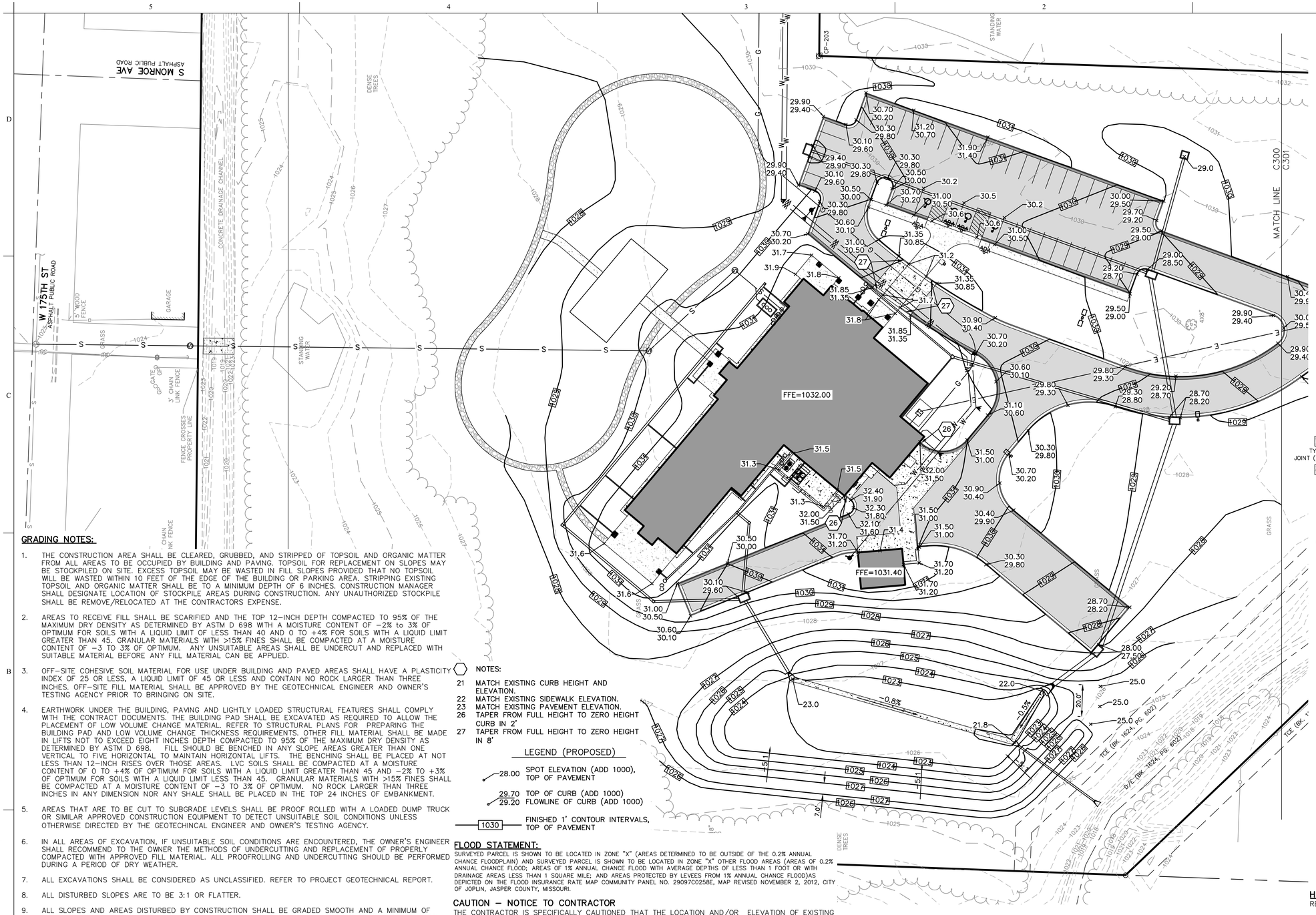
SHEET NUMBER:

C-201

15 OF 133

September 30, 2026

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt



GRADING NOTES:

1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSTRUCTION MANAGER SHALL DESIGNATE LOCATION OF STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOCATED AT THE CONTRACTORS EXPENSE.
2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12–INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF –2% to 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 45. GRANULAR MATERIALS WITH >15% FINES SHALL BE COMPACTED AT A MOISTURE CONTENT OF –3 TO 3% OF OPTIMUM. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
3. OFF–SITE COHESIVE SOIL MATERIAL FOR USE UNDER BUILDING AND PAVED AREAS SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF–SITE FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
4. EARTHWORK UNDER THE BUILDING, PAVING AND LIGHTLY LOADED STRUCTURAL FEATURES SHALL COMPLY WITH THE CONTRACT DOCUMENTS. THE BUILDING PAD SHALL BE EXCAVATED AS REQUIRED TO ALLOW THE PLACEMENT OF LOW VOLUME CHANGE MATERIAL. REFER TO STRUCTURAL PLANS FOR PREPARING THE BUILDING PAD AND LOW VOLUME CHANGE THICKNESS REQUIREMENTS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. FILL SHOULD BE BENCHED IN ANY SLOPE AREAS GREATER THAN ONE VERTICAL TO FIVE HORIZONTAL TO MAINTAIN HORIZONTAL LIFTS. THE BENCHING SHALL BE PLACED AT NOT LESS THAN 12–INCH RISES OVER THOSE AREAS. LVC SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT OF 0 TO +4% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT GREATER THAN 45 AND –2% TO +3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 45. GRANULAR MATERIALS WITH >15% FINES SHALL BE COMPACTED AT A MOISTURE CONTENT OF –3 TO 3% OF OPTIMUM. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS UNLESS OTHERWISE DIRECTED BY THE GEOTECHINCAL ENGINEER AND OWNER'S TESTING AGENCY.
6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED WITH APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
7. ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
8. ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
9. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON–SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SODDED OR SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. REFER TO PROJECT SITE AND LANDSCAPE PLANS FOR FINAL STABILIZATION TREATMENTS.
10. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
11. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT UNDISTURBED AREAS DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
12. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
13. IF ANY OF THESE NOTES CONFLICT WITH THE PROJECT GEOTECHNICAL REPORT (PROJECT #C26G2670) AND ALL ADDENDUMS PREPARED BY KAW VALLEY ENGINEERING INC. DATED AFTER JUNE 29, 2026 RECOMMENDATIONS IN GEOTECHNICAL REPORT SHALL GOVERN.

NOTES:

21 MATCH EXISTING CURB HEIGHT AND ELEVATION.
22 MATCH EXISTING SIDEWALK ELEVATION.
23 MATCH EXISTING PAVEMENT ELEVATION.
26 TAPER FROM FULL HEIGHT TO ZERO HEIGHT CURB IN 2'
27 TAPER FROM FULL HEIGHT TO ZERO HEIGHT IN 8'

LEGEND (PROPOSED)

- 28.00 — SPOT ELEVATION (ADD 1000), TOP OF PAVEMENT
- 29.70 — TOP OF CURB (ADD 1000)
- 29.20 — FLOWLINE OF CURB (ADD 1000)
- 1030 — FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT

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- VCP — VITRIFIED CLAY PIPE
- STREET/TRAFFIC SIGN
- GUARDRAIL
- 1025 — EXISTING GRADE 5' CONTOUR
- 1024 — EXISTING GRADE 1' CONTOUR
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- E/E — EDGE TO EDGE OF ASPHALT
- DECIDUOUS TREE
- TREE LINE
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- GP — GATE POST
- FP — FENCE POST
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- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PL — PROPERTY LINE

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- TYPE 1 JOINT (TYP) / TYPE 3 JOINT (TYP)
- CONCRETE SIDEWALK (055+005) W/JOINTING
- L — LANDING
- R — RAMP
- T — TRANSITION
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW

0 15 30 60
SCALE: 1" = 30'

811 Know what's below. Call before you dig.

HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670GP.DWG DWN: JQN

CHRISTIAN J. CROWDER
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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI — CHRISTIAN J. CROWDER — NUMBER PE-2015000538 — PROFESSIONAL ENGINEER
9-30-26

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

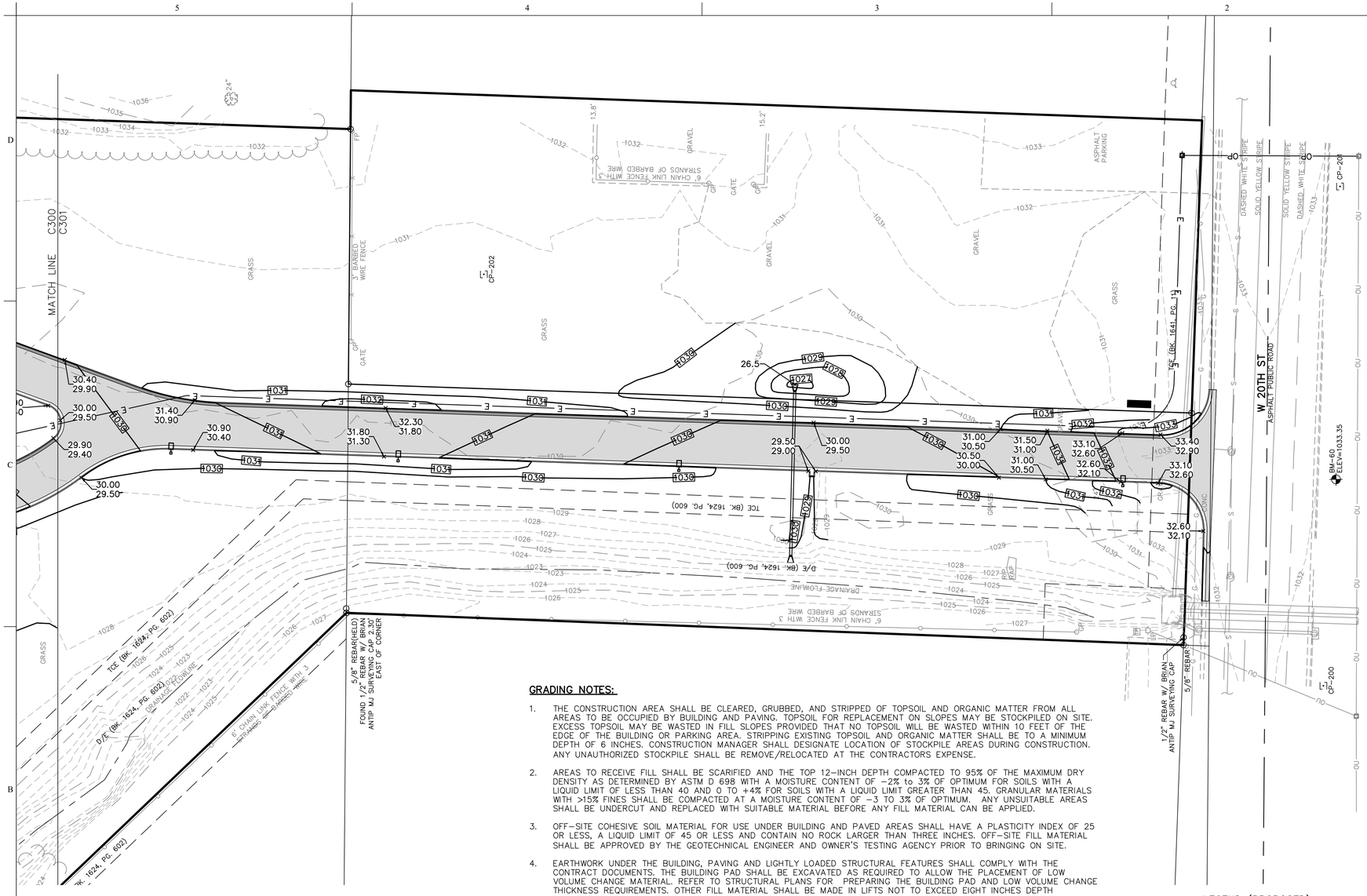
Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:
GRADING PLAN - NORTH

SHEET NUMBER:
C-300
16 OF 133
September 30, 2026



FLOOD STATEMENT:

SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" OTHER FLOOD AREAS (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD)AS DEPICTED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 29097C0258E, MAP REVISED NOVEMBER 2, 2012, CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

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

WARRANTY / DISCLAIMER

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

GRADING NOTES:

1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSTRUCTION MANAGER SHALL DESIGNATE LOCATION OF STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOCATED AT THE CONTRACTORS EXPENSE.
2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12–INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF –2% to 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 45. GRANULAR MATERIALS WITH >15% FINES SHALL BE COMPACTED AT A MOISTURE CONTENT OF –3 TO 3% OF OPTIMUM. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
3. OFF–SITE COHESIVE SOIL MATERIAL FOR USE UNDER BUILDING AND PAVED AREAS SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF–SITE FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
4. EARTHWORK UNDER THE BUILDING, PAVING AND LIGHTLY LOADED STRUCTURAL FEATURES SHALL COMPLY WITH THE CONTRACT DOCUMENTS. THE BUILDING PAD SHALL BE EXCAVATED AS REQUIRED TO ALLOW THE PLACEMENT OF LOW VOLUME CHANGE MATERIAL. REFER TO STRUCTURAL PLANS FOR PREPARING THE BUILDING PAD AND LOW VOLUME CHANGE THICKNESS REQUIREMENTS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. FILL SHOULD BE BENCHED IN ANY SLOPE AREAS GREATER THAN ONE VERTICAL TO FIVE HORIZONTAL TO MAINTAIN HORIZONTAL LIFTS. THE BENCHING SHALL BE PLACED AT NOT LESS THAN 12–INCH RISES OVER THOSE AREAS. LVC SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT OF 0 TO +4% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT GREATER THAN 45 AND –2% TO +3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 45. GRANULAR MATERIALS WITH >15% FINES SHALL BE COMPACTED AT A MOISTURE CONTENT OF –3 TO 3% OF OPTIMUM. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS UNLESS OTHERWISE DIRECTED BY THE GEOTECHINCAL ENGINEER AND OWNER'S TESTING AGENCY.
6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED WITH APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
7. ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
8. ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
9. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON–SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SODDED OR SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. REFER TO PROJECT SITE AND LANDSCAPE PLANS FOR FINAL STABILIZATION TREATMENTS.
10. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
11. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT UNDISTURBED AREAS DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
12. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
13. IF ANY OF THESE NOTES CONFLICT WITH THE PROJECT GEOTECHNICAL REPORT (PROJECT #C26G2670) AND ALL ADDENDUMS PREPARED BY KAW VALLEY ENGINEERING INC. DATED AFTER JUNE 29, 2026 RECOMMENDATIONS IN GEOTECHNICAL REPORT SHALL GOVERN.

LEGEND (PROPOSED)

- 28.00 — SPOT ELEVATION (ADD 1000), TOP OF PAVEMENT
- 29.70 / 29.20 — TOP OF CURB (ADD 1000) / FLOWLINE OF CURB (ADD 1000)
- 1030 — FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT

NOTES:

21 MATCH EXISTING CURB HEIGHT AND ELEVATION.
22 MATCH EXISTING SIDEWALK ELEVATION.
23 MATCH EXISTING PAVEMENT ELEVATION.
26 TAPER FROM FULL HEIGHT TO ZERO HEIGHT CURB IN 2'

NOTE:
1. **CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED BUILDING PAVING, PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.**
2. **THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.**
3. **ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.**
4. **ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.**
5. **ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.**

LEGEND:

- 1/2" REBAR FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
- BENCHMARK
- CONTROL POINT
- (2) OU — OVERHEAD UTILITY LINE (# OF LINES)
- UTILITY POLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE W/ LIGHT
- DEADMAN ANCHOR
- UNDERGROUND GAS
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- STREET/TRAFFIC SIGN
- GUARDRAIL
- 1025 — EXISTING GRADE 5' CONTOUR
- 1024 — EXISTING GRADE 1' CONTOUR
- B/B BACK TO BACK OF CURB MEASUREMENT
- E/E EDGE TO EDGE OF ASPHALT
- DECIDUOUS TREE
- TREE LINE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- WOOD FENCE
- GP GATE POST
- FP FENCE POST
- TREE DRIP LINE
- D/E DRAINAGE EASEMENT
- TCE TEMPORARY CONSTRUCTION EASEMENT
- PL PROPERTY LINE

PROPOSED LEGEND:

- CONCRETE PAVEMENT (042) W/JOINTING (TYPE 1 JOINT (TYP) / TYPE 3 JOINT (TYP))
- CONCRETE SIDEWALK (055+005) W/JOINTING
- L LANDING
- R RAMP
- T TRANSITION
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW

Know what's below. Call before you dig.

HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670GP.DWG DWN: JQN

CHRISTIAN J. CROWDER
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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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JOPLIN COMMUNITY SUPERVISION CENTER

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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

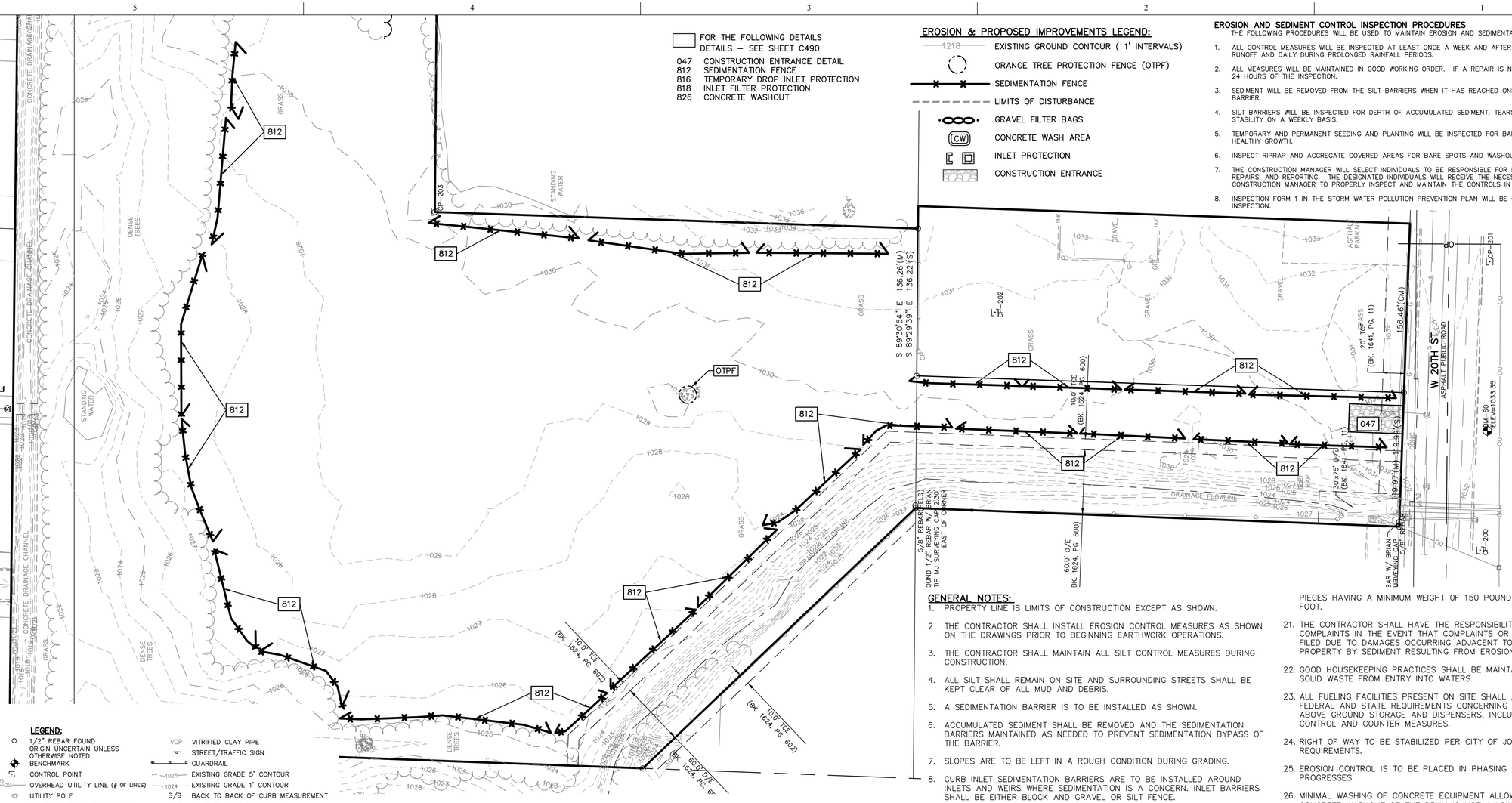
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DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:
GRADING PLAN - SOUTH

SHEET NUMBER:
C-301
17 OF 133
September 30, 2026

8/7/2026 9:26:36 AM

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt



LEGEND:

1/2" REBAR FOUND	VCP VITRIFIED CLAY PIPE
ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED	STREET/TRAFFIC SIGN
BENCHMARK	GUARDRAIL
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S SANITARY SEWER LINE	GP GATE POST
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RCP REINFORCED CONCRETE PIPE	TCE TEMPORARY CONSTRUCTION EASEMENT
PVC POLYVINYL CHLORIDE PIPE	PL PROPERTY LINE

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FOR THE FOLLOWING DETAILS
DETAILS – SEE SHEET C490

047 CONSTRUCTION ENTRANCE DETAIL
812 SEDIMENTATION FENCE
816 TEMPORARY DROP INLET PROTECTION
818 INLET FILTER PROTECTION
826 CONCRETE WASHOUT

EROSION & PROPOSED IMPROVEMENTS LEGEND:

1218 EXISTING GROUND CONTOUR (1' INTERVALS)
ORANGE TREE PROTECTION FENCE (OTPF)
SEDIMENTATION FENCE
LIMITS OF DISTURBANCE
GRAVEL FILTER BAGS
CW CONCRETE WASH AREA
INLET PROTECTION
CONSTRUCTION ENTRANCE

EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

1. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT PRODUCING RUNOFF AND DAILY DURING PROLONGED RAINFALL PERIODS.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
3. SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE–THIRD OF THE HEIGHT OF THE BARRIER.
4. SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. INSPECT RIPRAP AND AGGREGATE COVERED AREAS FOR BARE SPOTS AND WASHOUTS.
7. THE CONSTRUCTION MANAGER WILL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIRS, AND REPORTING. THE DESIGNATED INDIVIDUALS WILL RECEIVE THE NECESSARY TRAINING FROM THE CONSTRUCTION MANAGER TO PROPERLY INSPECT AND MAINTAIN THE CONTROLS IN GOOD WORKING ORDER.
8. INSPECTION FORM 1 IN THE STORM WATER POLLUTION PREVENTION PLAN WILL BE COMPLETED AFTER EACH INSPECTION.

GENERAL NOTES:

1. PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
4. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL OR SILT FENCE.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
10. RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
13. TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
14. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
15. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
16. INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
20. ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON–DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
21. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
22. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
23. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
24. RIGHT OF WAY TO BE STABILIZED PER CITY OF JOPLIN, MISSOURI REQUIREMENTS.
25. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
26. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON–DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
27. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

TEMPORARY AND PERMANENT SEEDING

TEMPORARY SEEDING

SEEDBED PREPARATION

SEEDBED SHOULD BE WELL–PULVERIZED, LOOSE AND UNIFORM. LIME AND FERTILIZER SHOULD BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS. IF pH IS UNKNOWN, APPLY LIME AT A RATE OF 2 TONS/ACRE. APPLY A 10–10–10 GRADE FERTILIZER AT 700–1,000 LB/ACRE. INCORPORATE BOTH INTO THE TOP 4–6 INCHES OF SOIL.PLANT SELECTION – ANNUAL RYE GRASS, WHEAT OR OATS FOR TEMPORARY SEEDING

SEEDING

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

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MAINTENANCE

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

PERMANENT SEEDING

SEE LANDSCAPE PLAN FOR PERMANENT SEEDING REQUIREMENTS.

SCALE: 1" = 50'

HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

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KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27
PROJ. NO. C26_2670 DSN: KGK
CFN: 2670ECP.DWG DWN: JQN

Know what's **below.** **Call** before you dig.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

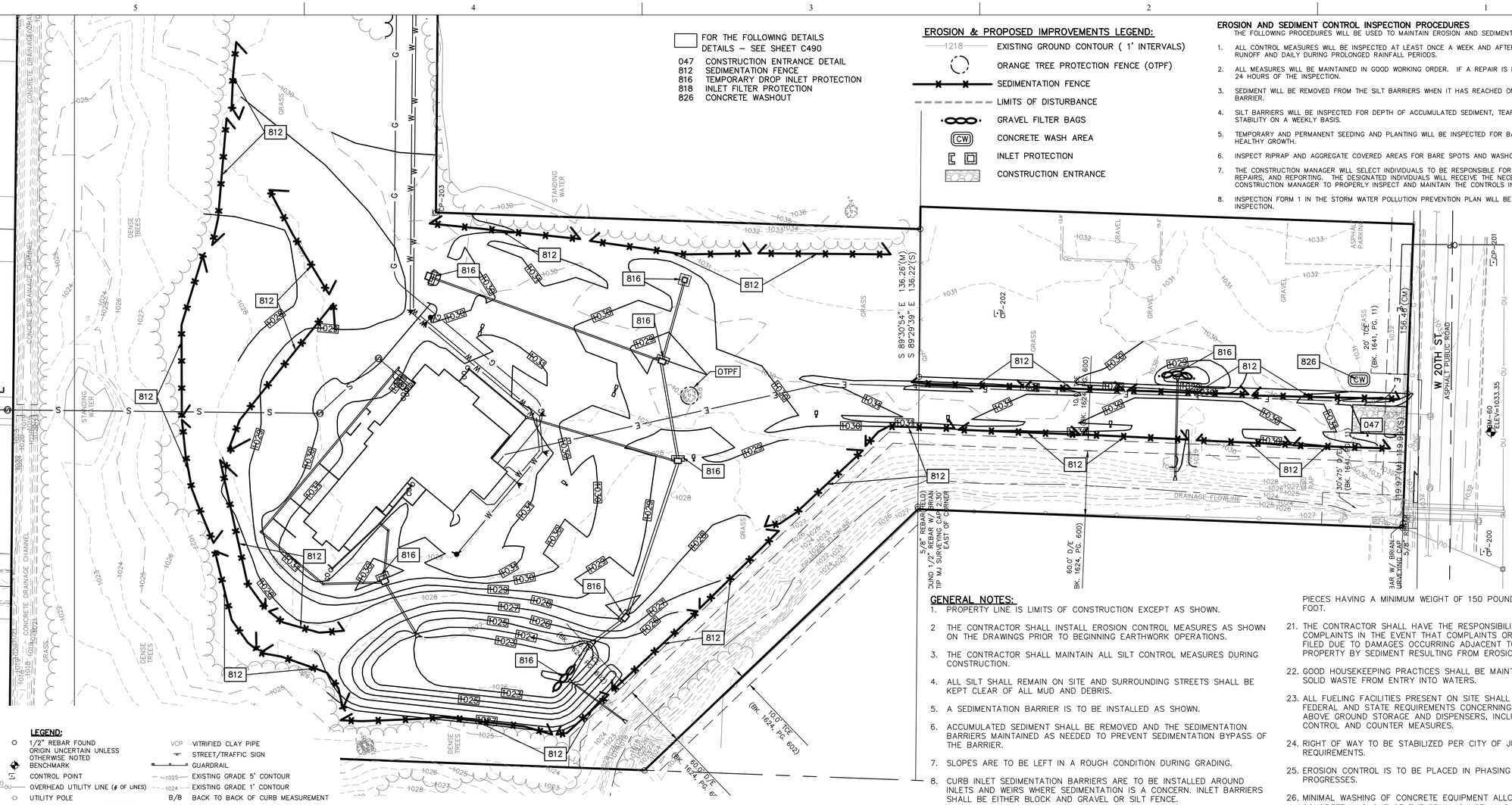
CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:
EROSION CONTROL PLAN - PHASE I

SHEET NUMBER:
C-400
18 OF 133

September 30, 2026

8/7/2026 9:26:36 AM



EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

1. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT PRODUCING RUNOFF AND DAILY DURING PROLONGED RAINFALL PERIODS.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
3. SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE–THIRD OF THE HEIGHT OF THE BARRIER.
4. SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. INSPECT RIPRAP AND AGGREGATE COVERED AREAS FOR BARE SPOTS AND WASHOUTS.
7. THE CONSTRUCTION MANAGER WILL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIRS, AND REPORTING. THE DESIGNATED INDIVIDUALS WILL RECEIVE THE NECESSARY TRAINING FROM THE CONSTRUCTION MANAGER TO PROPERLY INSPECT AND MAINTAIN THE CONTROLS IN GOOD WORKING ORDER.
8. INSPECTION FORM 1 IN THE STORM WATER POLLUTION PREVENTION PLAN WILL BE COMPLETED AFTER EACH INSPECTION.

LEGEND:

○	1/2" REBAR FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
	BENCHMARK
	CONTROL POINT
(2) OU	OVERHEAD UTILITY LINE (# OF LINES)
	UTILITY POLE
	UTILITY POLE W/ TRANSFORMER
GP	UTILITY POLE W/ LIGHT
	DEADMAN ANCHOR
G	UNDERGROUND GAS
	FIRE HYDRANT
	TELEPHONE PEDESTAL
S	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCP	VITRIFIED CLAY PIPE
	STREET/TRAFFIC SIGN
	GUARDRAIL
1025	EXISTING GRADE 5' CONTOUR
1024	EXISTING GRADE 1' CONTOUR
B/B	BACK TO BACK OF CURB MEASUREMENT
E/E	EDGE TO EDGE OF ASPHALT
	DECIDUOUS TREE
	TREE LINE
	CHAIN LINK FENCE
	BARBED WIRE FENCE
	WOOD FENCE
GP	GATE POST
FP	FENCE POST
	TREE DRIP LINE
D/E	DRAINAGE EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
PL	PROPERTY LINE

FLOOD STATEMENT:

SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" OTHER FLOOD AREAS (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD)AS DEPICTED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 29097C0258E, MAP REVISED NOVEMBER 2, 2012, CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

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

SAFETY NOTICE TO CONTRACTOR

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

WARRANTY / DISCLAIMER

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

GENERAL NOTES:

1. PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
4. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL OR SILT FENCE.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
10. RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
13. TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
14. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
15. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
16. INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
20. ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON–DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
21. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
22. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
23. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
24. RIGHT OF WAY TO BE STABILIZED PER CITY OF JOPLIN, MISSOURI REQUIREMENTS.
25. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
26. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON–DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
27. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

TEMPORARY AND PERMANENT SEEDING

TEMPORARY SEEDING

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0 25 50 100

SCALE: 1" = 50'

811 Know what's below. Call before you dig.

HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670ECP.DWG DWN: JQN

CHRISTIAN J. CROWDER
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MO # 2015000538

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STATE OF MISSOURI
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STATE OF MISSOURI
CHRISTIAN J. CROWDER
NOTARY
PE-2015000538
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DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: _____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

EROSION CONTROL PLAN - PHASE II

SHEET NUMBER:

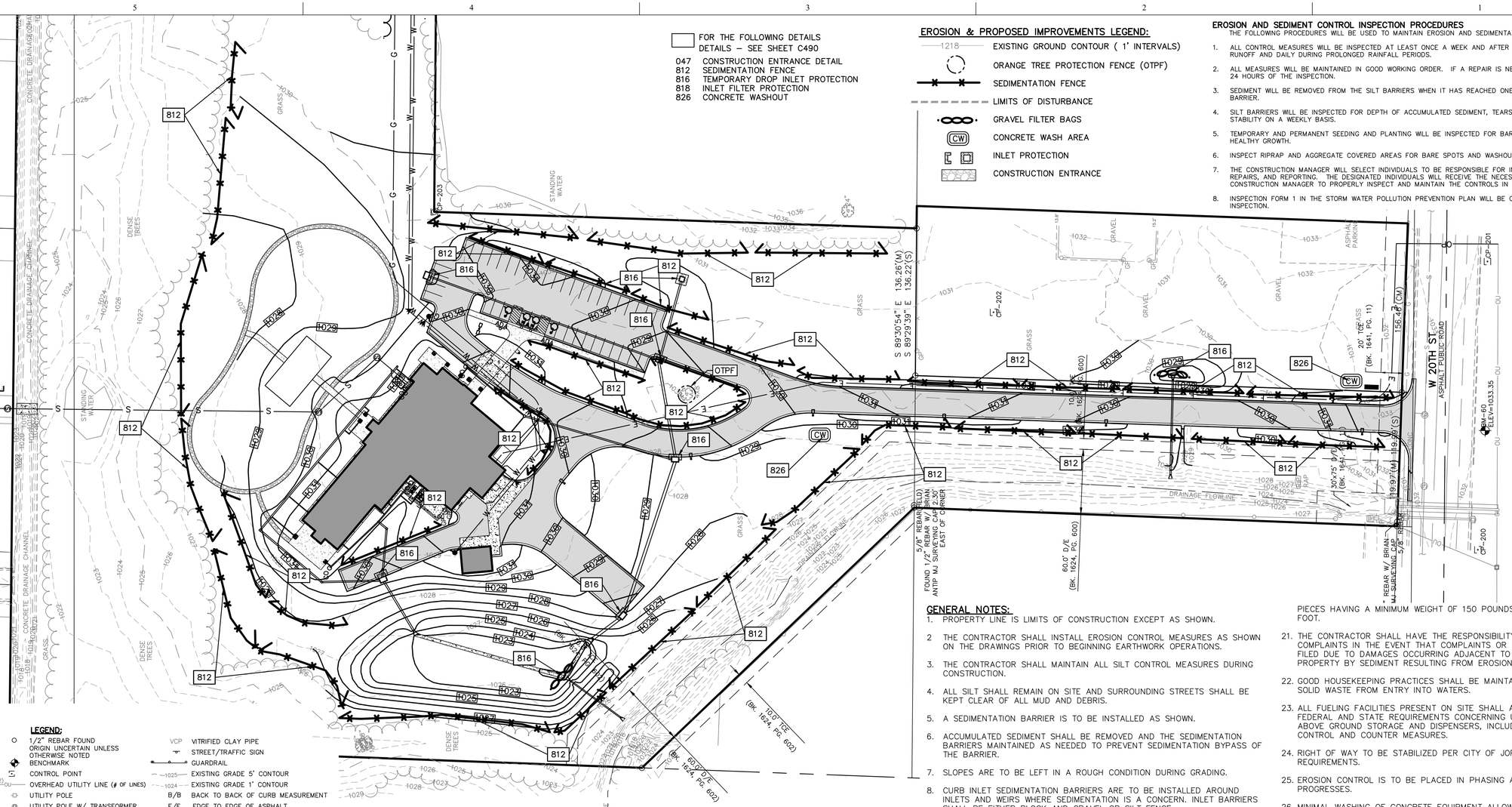
C-401

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September 30, 2026

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

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LEGEND:

- 1/2" REBAR FOUND
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- CONTROL POINT
- (2) OU OVERHEAD UTILITY LINE (# OF LINES)
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SEE LANDSCAPE PLAN FOR PERMANENT SEEDING REQUIREMENTS.

EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

1. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT PRODUCING RUNOFF AND DAILY DURING PROLONGED RAINFALL PERIODS.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
3. SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE–THIRD OF THE HEIGHT OF THE BARRIER.
4. SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. INSPECT RIPRAP AND AGGREGATE COVERED AREAS FOR BARE SPOTS AND WASHOUTS.
7. THE CONSTRUCTION MANAGER WILL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIRS, AND REPORTING. THE DESIGNATED INDIVIDUALS WILL RECEIVE THE NECESSARY TRAINING FROM THE CONSTRUCTION MANAGER TO PROPERLY INSPECT AND MAINTAIN THE CONTROLS IN GOOD WORKING ORDER.
8. INSPECTION FORM 1 IN THE STORM WATER POLLUTION PREVENTION PLAN WILL BE COMPLETED AFTER EACH INSPECTION.

GENERAL NOTES:

1. PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
4. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL OR SILT FENCE.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
10. RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
13. TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
14. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
15. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
16. INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.
17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
20. ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON–DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.
21. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
22. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
23. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
24. RIGHT OF WAY TO BE STABILIZED PER CITY OF JOPLIN, MISSOURI REQUIREMENTS.
25. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
26. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON–DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
27. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

Know what's **below.** **Call** before you dig.

HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670ECP.DWG DWN: JQN
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GOVERNOR

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

EROSION CONTROL PLAN - PHASE III

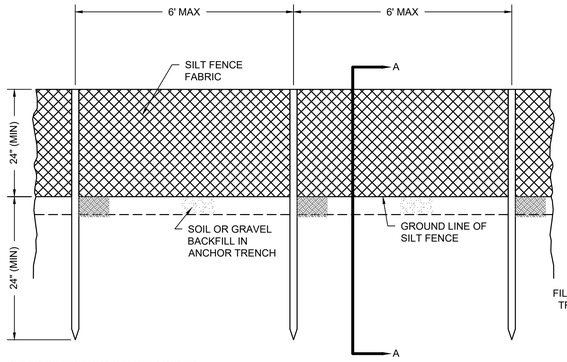
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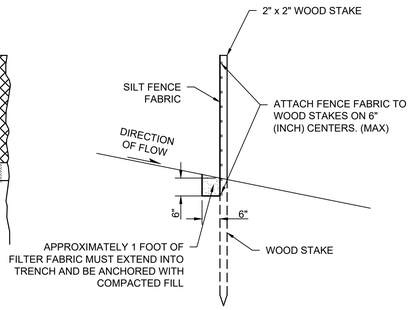
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September 30, 2026

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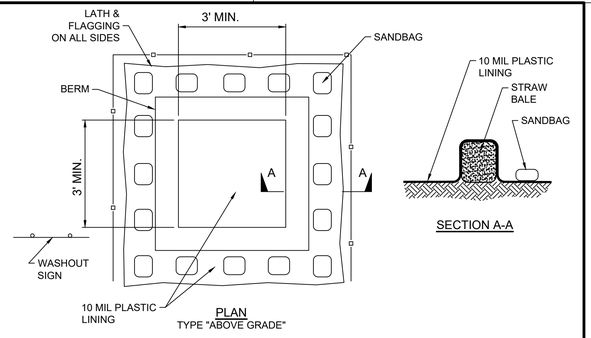


SECTION A-A

SEDIMENTATION FENCE NOTES:

1. SEDIMENT FENCE FABRIC SHALL HAVE A MINIMUM FILTERING EFFICIENCY OF 85%.
2. SEDIMENT FENCE FABRIC SHALL HAVE A TENSILE STRENGTH AT 20% (MAXIMUM) ELONGATION OF 30 LB/LINEAR INCH FOR STANDARD STRENGTH STRENGTH OR 50 LB/LINEAR INCH FOR HIGH STRENGTH.
3. SEDIMENT FENCING FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO LENGTH OF THE BARRIER RUN TO AVOID USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE FABRIC SHALL BE SECURELY SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MAX 6 INCH OVERLAP.
4. SEDIMENT FENCE BARRIER SHALL BE INSTALLED PERPENDICULAR TO WATER FLOW FOLLOWING A CONSTANT ELEVATION.
5. IN ORDER TO CONTAIN WATER THE ENDS OF THE SEDIMENT FENCE MUST BE TURNED UPHILL.
6. RUNS OF SEDIMENT FENCE BARRIERS SHALL BE LIMITED TO 600'. RUNS SHOULD BE BROKEN INTO SEVERAL SMALLER SEGMENTS TO MINIMIZE WATER CONCENTRATIONS.
7. INSTALL SEDIMENT FENCE AT THE TOP OF SLOPES TO SLOW VELOCITY AND WATER OF VOLUME.
8. AT BASE OF SLOPES SEDIMENT FENCE SHOULD BE INSTALLED 6' TO 10' AWAY FROM THE TOE OF THE SLOPE TO CREATE A SEDIMENT STORAGE AREA.
9. LONG SLOPES SHOULD HAVE INTERMEDIATE ROWS OF SEDIMENT FENCE, NOT JUST AT TOP AND TOE OF SLOPES.

SEDIMENTATION FENCE 812



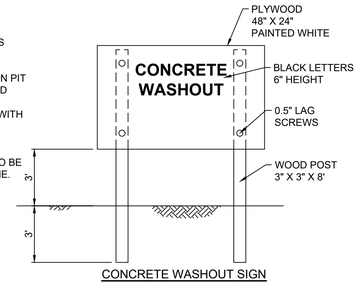
PLAN
TYPE "ABOVE GRADE"

SECTION A-A

CONCRETE WASHOUT PIT
NOT TO SCALE

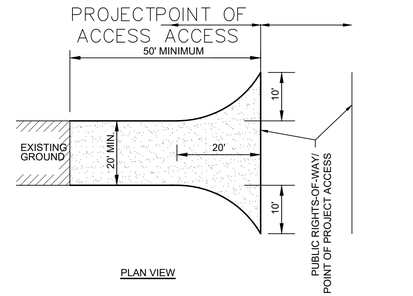
NOTES:

1. WASHOUT SHOULD BE CLEANED ONCE IT IS 75% FULL.
2. HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF IN AN APPROVED CONSTRUCTION DEBRIS LANDFILL.
3. AT CONCLUSION OF CONSTRUCTION PIT AND SIGN ARE TO BE REMOVED AND AREA RETURNED TO PRE-CONSTRUCTION CONDITIONS WITH SEEDING OR SODDING.
4. CONTRACTOR MAY SUBSTITUTE PLASTIC TUB AT HIS/HER OPTION TO BE OF EQUIVILENT OR LARGER VOLUME.

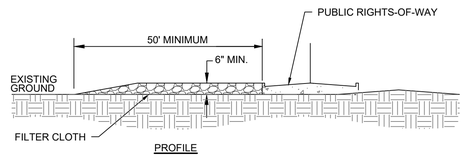


CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)
NOT TO SCALE

CONCRETE WASHOUT ABOVE GRADE 826
NOT TO SCALE



PLAN VIEW

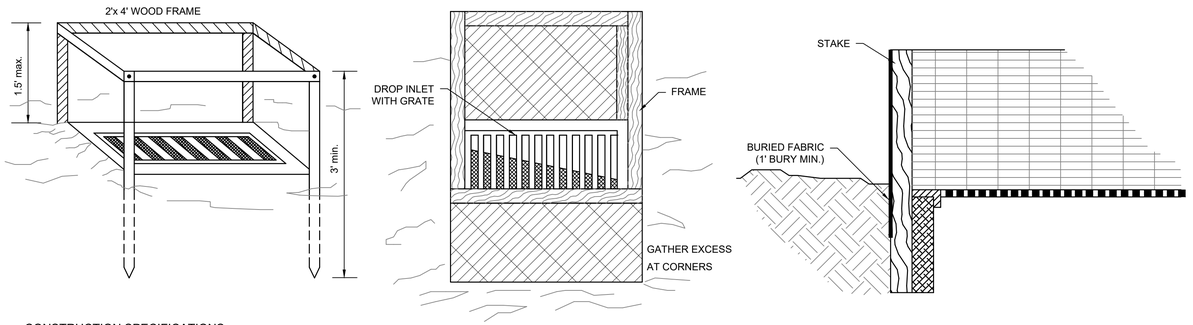


PROFILE

CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED MATERIALS RANGING IN SIZE FROM 2" TO 4" MAXIMUM.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN (6) INCHES.
4. WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY / POINTS OF ACCESS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF WAY / POINTS OF ACCESS MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY / POINTS OF ACCESS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE DETAIL 047



CONSTRUCTION SPECIFICATIONS

1. SEDIMENT FABRIC SHALL CONFORM TOT HE TABLE BELOW.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS.
3. FOR STAKES, USE 2 X 4 INCH WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF THREE FEET.
4. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF THREE FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP.
5. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2 X 4 INCH WOOD STRIPS AROUND THE CREST TO THE OVERFLOW AREA AT A MINIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
6. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH AT LEAST FOUR INCHES OF CRUSHED STONE OR TWELVE INCHES OF COMPACTED SOIL.
7. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
8. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW. MATERIAL FROM WITHIN THE SEDIMENT POOL MAY BE USED FOR DIKING.

MAINTENANCE

1. INSPECT THE FABRIC BARRIER AFTER EACH RAIN OF 1/2" OR GREATER AND MAKE REPAIRS AS NEEDED.
2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO IT'S ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE OR UNDERCUT THE FABRIC DURING SEDIMENT REMOVAL.
3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SEDIMENT AND DISPOSE OF THEM PROPERLY. BRING THE DISTURBED AREA TO THE GRADE OF THE DROP INLET AND SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

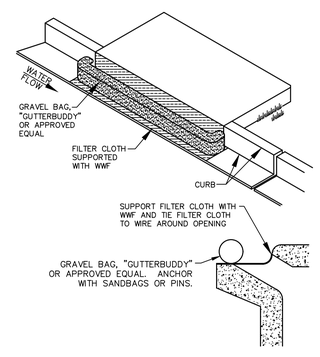
PHYSICAL PROPERTY	TEST	REQUIREMENTS
FILTERING EFFICIENCY	ASTM 5141	75%
TENSILE STRENGTH AT 20% (MAX ELONGATION)*	ASTM 4632 AASHTO M288-96	EXTRA STRENGTH - 50 LBS/ LINEAR INCH
FLOW RATE	ASTM 5141	0.2 GAL/SQ FT/MIN**
ULTRAVIOLUTE STABILITY %	ASTM D 4355	90%

* REQUIREMENTS REDUCED BY 50% AFTER 6 MONTHS OF INSTALLATION.

** HIGH POROSITY FABRIC MAY BE BETTER SUITED FOR THIS DEVICE.

TEMPORARY DROP INLET PROTECTION 816
NOT TO SCALE

NOTE:
1. SUBMIT FILTER PLAN AND TYPE FOR APPROVAL.
2. UPON CONSTRUCTION OF INLET, FILTER PROTECTION WILL BE PROVIDED. HAY BALES ARE NO LONGER APPROVED.
3. INLET FILTER TO REMAIN IN PLACE UNTIL 90% OF DRAINAGE AREA IS SODDED OR SEEDED.



CROSS SECTION

INLET FILTER PROTECTION 818
N.T.S.

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KAW VALLEY ENGINEERING

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
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2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:

C-490

21 OF 133

September 30, 2026

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NOTES:

40 GAS SERVICE
41 GAS SERVICE CONNECTION TO MAIN. CONNECTION AND CROSSING OF ROOSEVELT AVENUE TO BE MADE BY SPIRE.
42 GAS SERVICE CONNECTION TO STRUCTURE (SEE MEP PLANS)
50 ELECTRIC SERVICE, 4" CONDUIT X 2
50A ELECTRIC SERVICE CONNECTION TO STRUCTURE (SEE MEP PLANS)
51 ELECTRIC TRANSFORMER (SEE MEP PLANS)
52 ELECTRIC – OVERHEAD POLE TO BE SET BY UTILITY PROVIDER. CONTRACTOR TO COORDINATE.
60 STORM SEWER (SEE C600 SERIES SHEETS)
63 15" ROOF DRAIN HEADER (SEE C600 SERIES SHEETS)
63A 6" ROOF DRAIN
70 EXISTING SANITARY SEWER MAIN
71 EXISTING SANITARY SEWER MANHOLE
72 8" SDR-26 SANITARY SEWER
72A PUBLIC 8" SDR-26 SANITARY SEWER MAIN – SEE SEPARATE SANITARY SEWER MAIN EXTENSION PLANS
73A 4" PVC SDR-26 SANITARY SEWER SERVICE, SLOPE AT 2.0% (SEE SHEET C510)
73B 6" PVC SDR-26 SANITARY SEWER SERVICE, SLOPE AT 2.0% (SEE SHEET C510)
73C SANITARY SEWER SERVICE CONNECTION TO STRUCTURE (SEE MEP PLANS)
74 SANITARY SEWER MANHOLE
74A PUBLIC SANITARY SEWER MANHOLE – SEE SEPARATE SANITARY SEWER MAIN EXTENSION PLANS
75 1,500 GALLON GREASE INTERCEPTOR
80 EXISTING 8" ASBESTOS CEMENT MAIN
80A CONNECTION TO EXISTING MAIN AND EXTENSION TO PROPERTY TO BE MADE BY MISSOURI AMERICAN WATER
81 8" PVC AWWA C900
81A 8" DOUBLE CHECK BACKFLOW PREVENTER
81B 8"X6" TEE
82 6" PVC AWWA C900
82A 6" FIRE SERVICE CONNECTION TO STRUCTURE (SEE MEP PLANS)
83 3" DOMESTIC WATER SERVICE – AWWA C901, PE 4710, SDR9
83A 3" DOMESTIC METER
83B 3"X1½" TEE
83C 3" DOMESTIC WATER SERVICE CONNECTION TO STRUCTURE (SEE MEP PLANS)
84 BACKFLOW PREVENTER AND METER VAULT
85 FIRE HYDRANT
86 FIRE DEPARTMENT CONNECTION (SEE MEP PLANS)
87 1½" DOMESTIC WATER SERVICE – AWWA C901, PE 4710, SDR9
87A 1½" DOMESTIC WATER SERVICE CONNECTION TO STRUCTURE (SEE MEP PLANS)

DETAILS – SEE DETAIL SHEET NO. C690 FOR THE FOLLOWING DETAILS

510 CLEANOUT

PROPOSED LEGEND:

CONCRETE PAVEMENT (042) W/JOINTING
TYPE 1 JOINT (TYP) / TYPE 3 JOINT (TYP)
CONCRETE SIDEWALK (055+005) W/JOINTING
L LANDING
R RAMP
T TRANSITION
HEAVY DUTY ASPHALT PAVEMENT (041)
CONCRETE CURB AND GUTTER
CONCRETE CURB AND GUTTER WITH REVERSE FLOW

LEGEND:

1/2" REBAR FOUND
ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
BENCHMARK
CONTROL POINT
(2) OU OVERHEAD UTILITY LINE (# OF LINES)
UTILITY POLE
UTILITY POLE W/ TRANSFORMER
UTILITY POLE W/ LIGHT
DEADMAN ANCHOR
G UNDERGROUND GAS
FIRE HYDRANT
TELEPHONE PEDESTAL
S SANITARY SEWER LINE
SANITARY SEWER MANHOLE
STORM SEWER MANHOLE
CMP CORRUGATED METAL PIPE
RCP REINFORCED CONCRETE PIPE
PVC POLYVINYL CHLORIDE PIPE
VCP VITRIFIED CLAY PIPE
STREET/TRAFFIC SIGN
GUARDRAIL
1025 EXISTING GRADE 5' CONTOUR
1024 EXISTING GRADE 1' CONTOUR
B/B BACK TO BACK OF CURB MEASUREMENT
E/E EDGE TO EDGE OF ASPHALT
DECIDUOUS TREE
TREE LINE
CHAIN LINK FENCE
BARBED WIRE FENCE
WOOD FENCE
GP GATE POST
FP FENCE POST
TREE DRIP LINE
D/E DRAINAGE EASEMENT
TCE TEMPORARY CONSTRUCTION EASEMENT
PL PROPERTY LINE

ROOSEVELT AVE
ASPHALT PUBLIC ROAD

S MONROE AVE
ASPHALT PUBLIC ROAD

W 175TH ST
ASPHALT PUBLIC ROAD

W 20TH ST
ASPHALT PUBLIC ROAD

MATCH LINE – C500
MATCH LINE – C501

BM-61
ELEV=1029.76

BM-60
ELEV=1033.35

FFE=1032.00

FFE=1031.40

TCE (BK. 1624, PG. 602)
D/E (BK. 1624, PG. 602)
TCE (BK. 1641, PG. 11)
D/E (BK. 1641, PG. 11)
TCE (BK. 1624, PG. 600)
D/E (BK. 1624, PG. 600)

CROSSES PROPERTY LINE AT THIS POINT

CP-200
CP-201
CP-202
CP-203

SCALE: 1" = 40'

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

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

WARRANTY / DISCLAIMER

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

UTILITY NOTES:

1. EXCAVATION, TRENCHING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. ALL BACKFILL SHALL BE COMPACTED. BACKFILL UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
3. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO MISSOURI AMERICAN WATER UNLESS DULY AUTHORIZED TO DO SO. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. KAW VALLEY ENGINEERING AND OWNER ARE TO BE HELD HARMLESS. CONTRACTOR SHALL NOTIFY MISSOURI AMERICAN WATER 48 HOURS MINIMUM.
4. CONTRACTOR TO INSTALL TRACING WIRE ALONG ALL NON–METALLIC SERVICE LINES PER SPECIFICATIONS.
5. CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
6. A MINIMUM HORIZONTAL DISTANCE SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. MISSOURI DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

HORIZONTAL AND VERTICAL DATUM:
REFER TO SHEET C–100

PROJECT CONTROL:
REFER TO SHEET C–100

PROJECT BENCH MARKS:
REFER TO SHEET C–100

Know what's below. Call before you dig.

CHRISTIAN J. CROWDER ENGINEER MO # 2015000538
PROJ. NO. C26_2670 DSN: KGK
CFN: 2670UP.DWG DWN: JQN
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
PH. (913) 894–5150 | FAX (913) 894–5977
lx@kveng.com | www.kveng.com
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NOTARY PUBLIC
PE-2015000538
9-30-26
PROFESSIONAL ENGINEER

ACI BOLAND ARCHITECTS

ACI/Boland, Inc.
Kansas City
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CIVIL
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T: 913.894.5150

LANDSCAPE
Landworks Studio
102 S Cherry St
Olathe, KS, 66061
T: 913.780.6707

STRUCTURAL
Wallace Design Collective
1703 Wyandotte St. Ste 200
Kansas City, MO, 64108
T: 816.421.8282

MEP
Lankford | Fendler + Associates
1740 Walnut St
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T: 816.221.1411

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

UTILITY PLAN - NORTH

SHEET NUMBER:

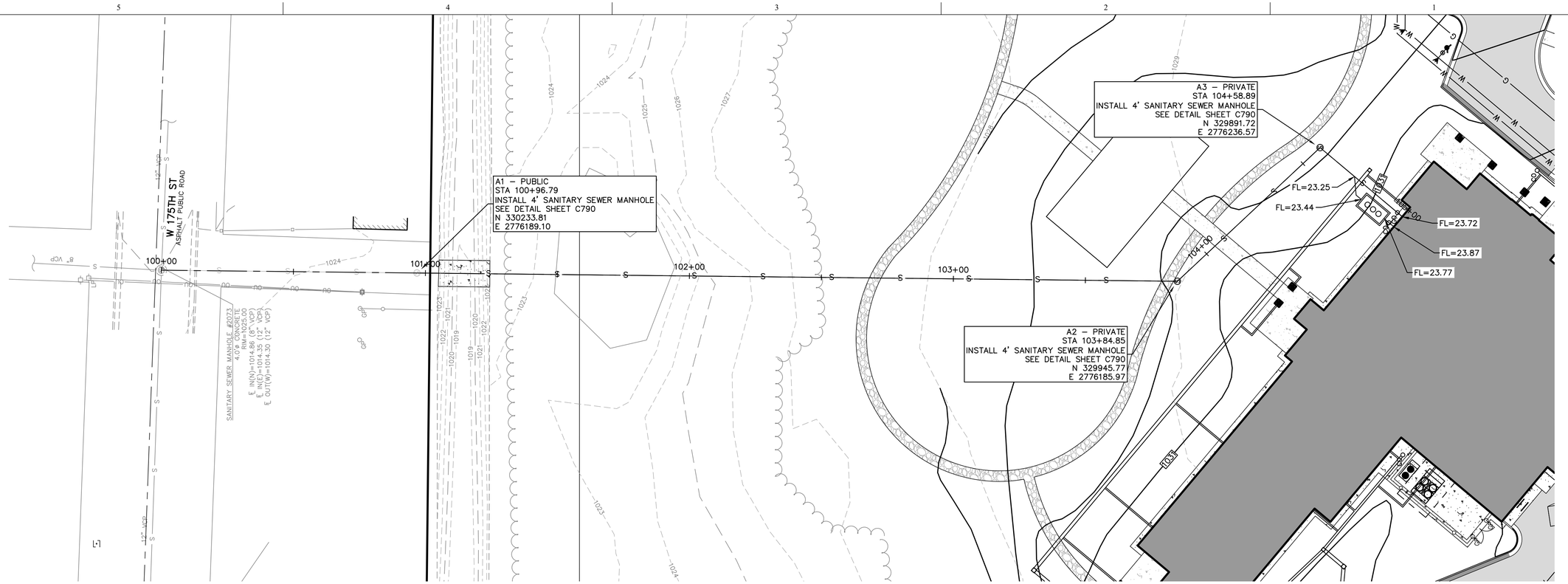
C-500

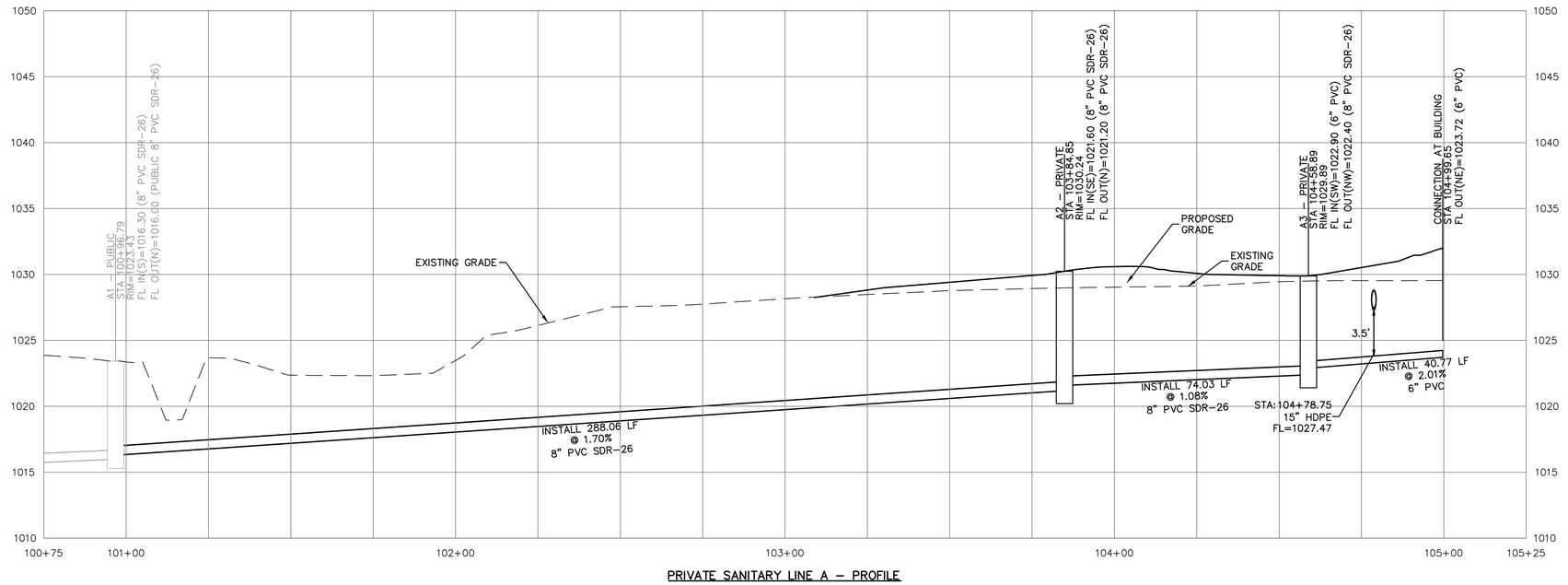
22 OF 133

September 30, 2026

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PRIVATE SANITARY LINE A – PROFILE

0 10 20 40

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

Know what's **below.** **Call** before you dig.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670SPP.DWG DWN: JQN

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538

KAW VALLEY ENGINEERING
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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

SANITARY SEWER PLAN AND PROFILE

SHEET NUMBER:

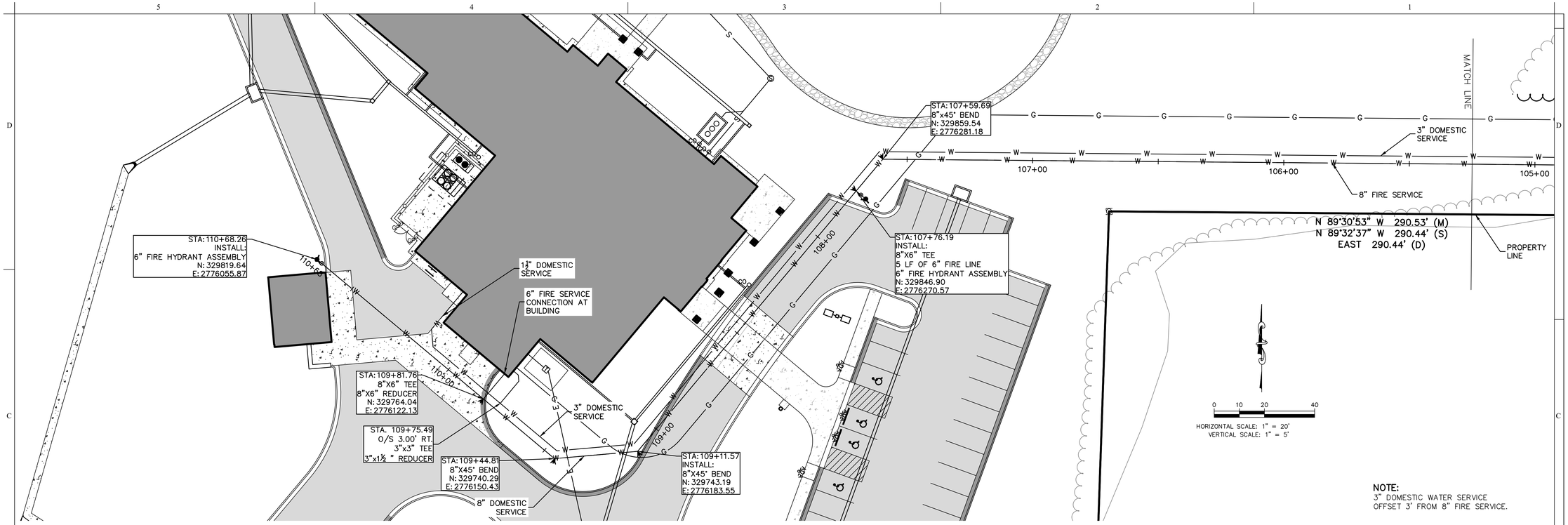
C-510

23 OF 133

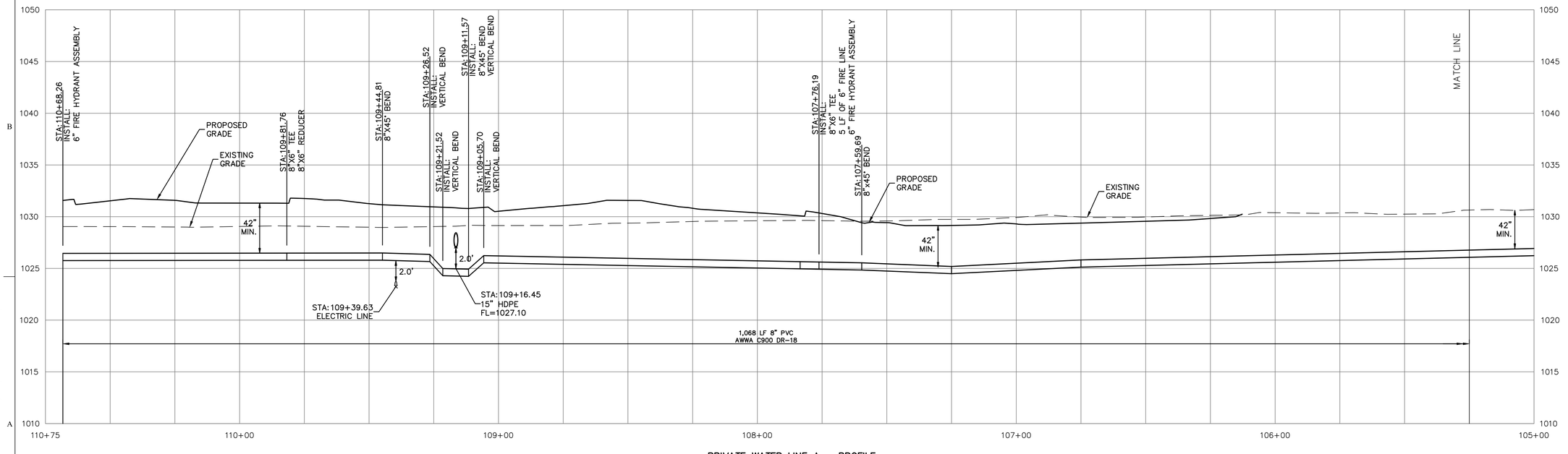
September 30, 2026

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

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NOTE:
3" DOMESTIC WATER SERVICE
OFFSET 3' FROM 8" FIRE SERVICE.



PRIVATE WATER LINE A – PROFILE

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670WPP.DWG DWN: JQN
CHRISTIAN J. CROWDER
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LENEXA, KANSAS 66215
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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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OFFICE OF ADMINISTRATION
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DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

WATER LINE PLAN AND PROFILE

SHEET NUMBER:

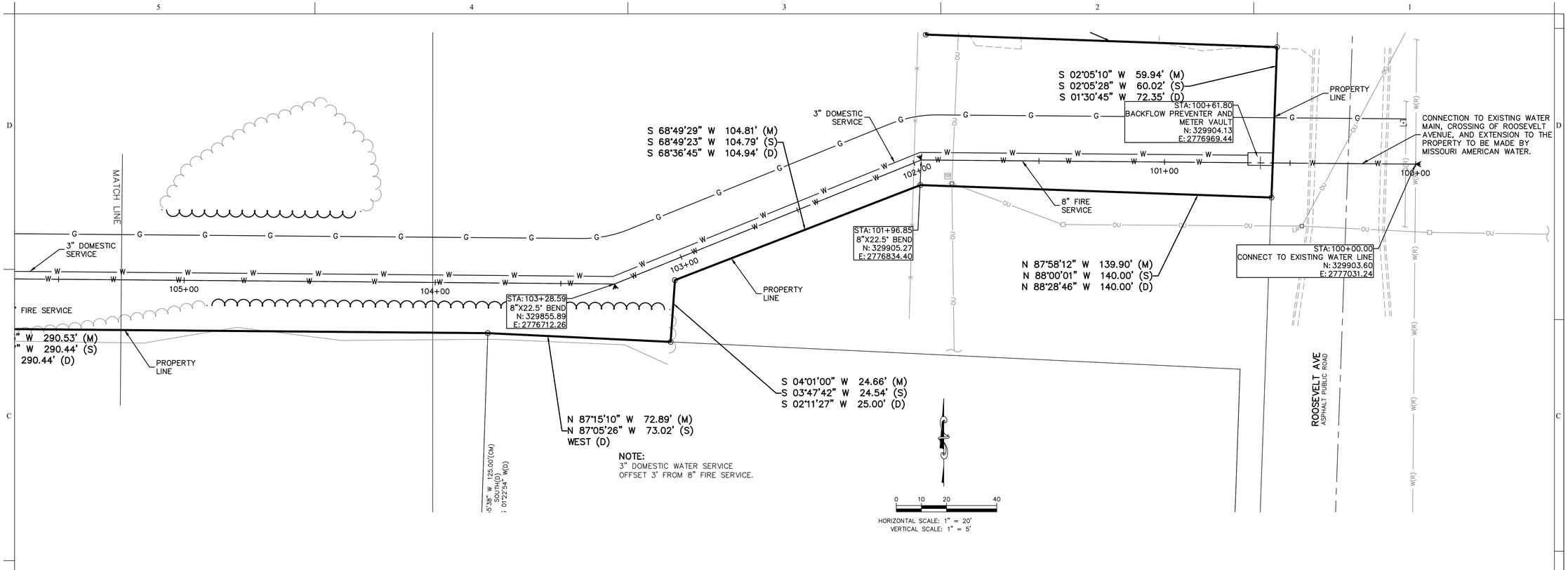
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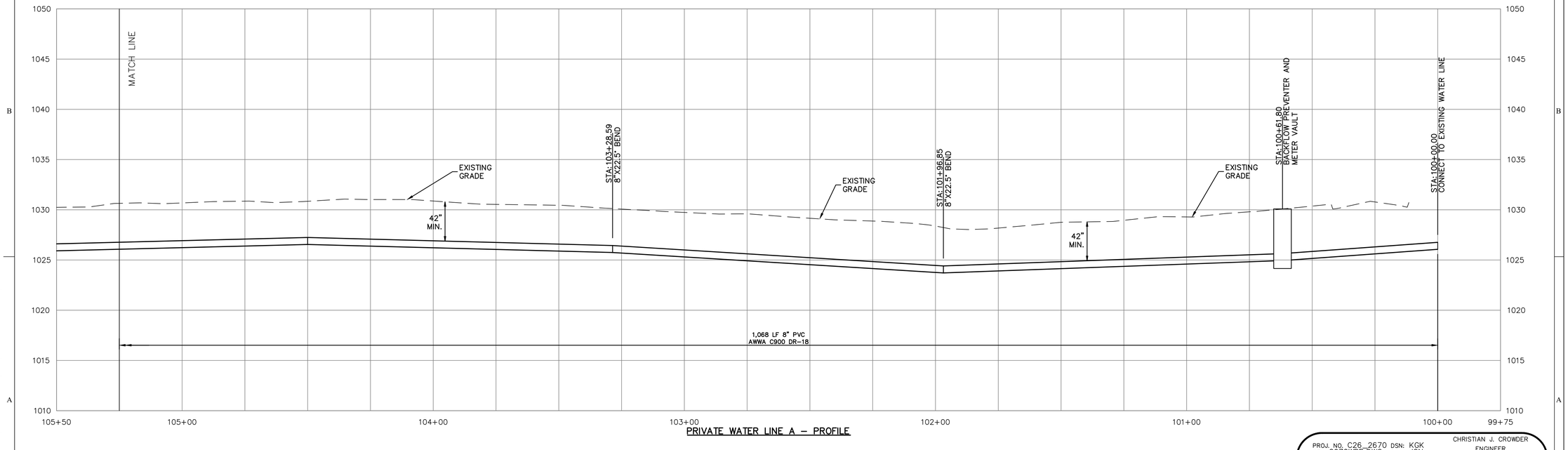
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September 30, 2026

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

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PRIVATE WATER LINE A – PROFILE

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670WPP.DWG DWN: JQN

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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Licensee's Certificate of Authority Number:
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OFFICE OF ADMINISTRATIO
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ___
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

WATER LINE PLAN AND PROFILE

SHEET NUMBER:

C-551

25 OF 133

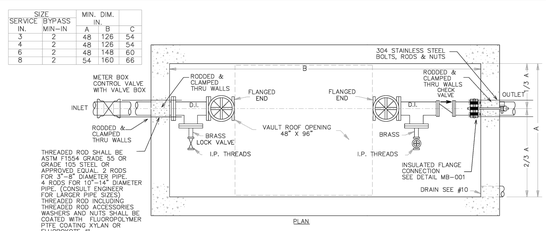
September 30, 2026

8/7/2026 9:26:36 AM

MISSOURI AMERICAN WATER

FILE NO. _____
INDEX NO. _____
ISSUED DATE 08-15-2021
AMENDED DATE 10-25-2023

SIZE SERVICE	BYPASS	MIN. DIM. IN.		
IN.	MIN-IN	A	B	C
3	2	48	126	54
4	2	48	126	54
6	2	48	148	60
8	2	54	160	66



NOTES

1. LENGTH OF BOX "B" SHALL BE DISTANCE "C" PLUS DISTANCE REQUIRED TO INSTALL FITTINGS AS SHOWN
2. VAULT WALLS TO BE OF CONCRETE.
3. VAULT ROOF TO BE OF CONCRETE WITH OPENING CENTERED OVER METER
4. LIDS AND FRAMES OF OPENING TO BE SET IN PLACE, NOT IN CONCRETE.
5. LIDS SHALL BE MADE OF ALUMINUM AND SPRING LOADED. OPENING SHALL BE 48" x 96" TO ALLOW UNRESTRICTED ACCESS. OPENING TO BE FLUSH WITH BOTTOM SURFACE OF ALUMINUM LID.
6. VALVES ON EACH SIDE OF METER MUST HAVE FLANGED ENDS, BE IN ALIGNMENT, AND BE ADEQUATELY SECURED TO WITHSTAND WATER THRUST WITH METER REMOVED.
7. DRAINAGE FACILITIES MUST BE PROVIDED, OR BOX OTHERWISE KEPT FREE OF WATER, NO FRENCH DRAINS ALLOWED UNLESS APPROVED BY AUTHORIZED COMPANY REPRESENTATIVE.
8. METER BOX CONTROL VALVE TO BE LOCATED AS NEAR TO BOX AS PRACTICAL.
9. CLASS 52 DI PIPE EXTENDED MIN. 6' FROM OUTLET SIDE OF METER PIT. (ZINC COATED DI AND V-BIO POLYWRAP OPTIONAL IN HIGHLY CORROSIVE SOIL AREAS)
10. DRAIN NEEDS TO BE GRADED TO ALLOW WATER DRAINAGE AWAY AND OUT FROM VAULT.
11. CHECK VALVES REQUIRED FOR EACH METER BOX INSTALLATION AND SHALL BE RATED AT 250 PSI AND SHALL HAVE A RESILENT SEAT.
12. ALL STEEL BOLTS INCLUDING THE NUTS, WASHERS, LUGS, CLAMPS, AND BRACKETS USED FOR BOLT ACCESSORIES SHALL CONFORM TO AWWA C111 STANDARDS AND SHALL BE FACTORY COATED WITH AN APPROVED PTFE FLUOROPOLYMER COATING. THREADED RODS INCLUDING THE NUTS AND STANDARD WASHERS USED FOR THREADED ROD ACCESSORIES SHALL MEET ASTM F1554 GRADE 55 OR GRADE 105 WITH HEAVY HEX DH NUTS AND SHALL BE COATED WITH PTFE FLUOROPOLYMER COATING. APPROVED PTFE FLUOROPOLYMER COATING PRODUCTS INCLUDE FLUOROKOTE #1™, OR XYLAN™, SERIES 1420, 1421, 1424, OR APPROVED EQUAL. PTFE FLUOROPOLYMER COATINGS SHALL BE BAKED ON OR THERMALLY SET BY THE COATING MANUFACTURER.

A TEMPORARY FLANGED DUCTILE IRON SPOOL PIECE MUST BE INSTALLED IN THE PLACE OF THE METER LOCATION(S), 3" AND LARGER, TO ENSURE PIPE ALIGNMENT. MAWC PERSONNEL WILL REMOVE SPOOL PIECE AT TIME OF METER INSTALLATION AND WILL LEAVE IN METER VAULT FOR CONTRACTOR TO ACQUIRE FOR FUTURE USE.

DRG. #MB-3468DS SUBJECT TO REVISION WITHOUT NOTICE 10-25-2023

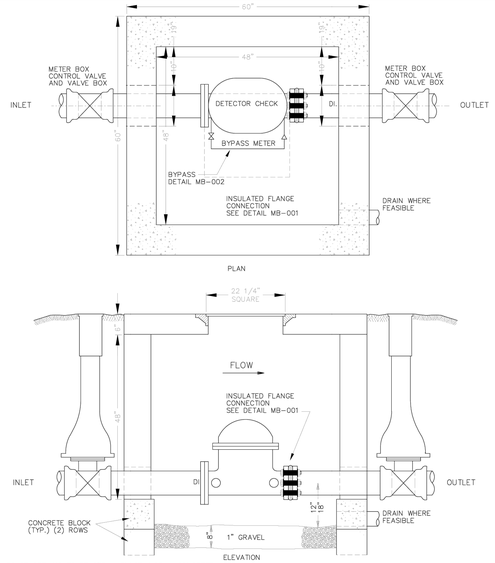
METER BOX FOR 3"-4"-6" & 8" SERVICES

PRINT AND READ DISCLAIMER WITH ALL MAWC DRAWINGS

CAD /DISTRIB/DETAILS/METERBOX/METERBOX_20200821.DWG

MISSOURI AMERICAN WATER

FILE NO. _____
INDEX NO. _____
ISSUED DATE 08-2020
AMENDED DATE _____



1. FRAMES OF OPENING TO BE SET IN PLACE, NOT IN CONCRETE
2. STANDARD 48"X 48" INSIDE DIMENSION CONCRETE VAULT WITH OPEN BOTTOM NOTCHED FOR 8" PIPE.
3. CLASS 52 DI PIPE EXTENDED MIN. 6' FROM OUTLET SIDE OF VAULT. (ZINC COATED DI PIPE WITH V-BIO POLYWRAP OPTIONAL IN HIGHLY CORROSIVE SOIL AREAS)
4. BOX TO BE SET WITH TOP OF BOX AT FINISHED GRADE WITH NO EXTENSION ALLOWED.
5. SERVICE MUST BE INSPECTED BEFORE BACKFILL BY AUTHORIZED COMPANY REPRESENTATIVE.
6. (2) ROWS OF CONCRETE BLOCKS, ANY ADDITIONS MUST BE APPROVED BY AN AUTHORIZED COMPANY REPRESENTATIVE.
7. NO MEGALUG OR UNIFLANGE TYPE JOINTS ALLOWED IN VAULT.

DRG. #DCV-468FS SUBJECT TO REVISION WITHOUT NOTICE 08-28-2020

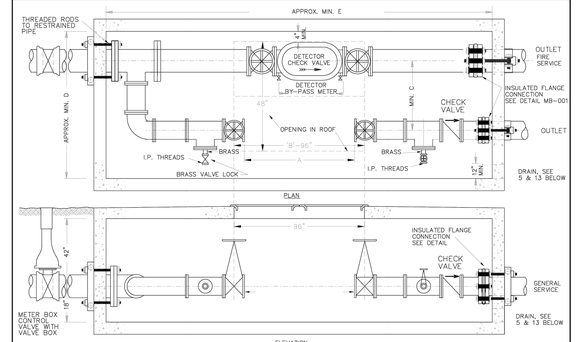
DETECTOR CHECK VAULT FOR 4",6",8" FIRE SERVICES

PRINT AND READ DISCLAIMER WITH ALL MAWC DRAWINGS

CAD /DISTRIB/DETAILS/METERBOX/METERBOX_20200821.DWG

MISSOURI AMERICAN WATER

FILE NO. _____
INDEX NO. _____
ISSUED DATE 08-15-2021
AMENDED DATE 10-25-2023



DOMESTIC SERVICE BYPASS		FIRE SERVICE 10"			8"			6"			4"		
SIZE IN.	MIN. SIZE IN.	A IN.	B IN.	C IN.	D IN.	E IN.	C IN.	D IN.	E IN.	C IN.	D IN.	E IN.	C IN.	D IN.	E IN.
1 1/2	1	30	96	35	72	126	35	72	114	30	66	108	27	60	108
2	2	30	96	35	72	126	35	72	114	30	66	108	27	60	108
3	2	54	96	35	84	180	35	78	180	30	72	174	27	72	174
4	2	54	96	35	84	186	35	84	186	30	78	180	27	72	180
6	2	60	96	36	84	198	36	84	198	31	78	198			
8	2	66	96	37	84	210	37	84	210						

NOTES

1. VAULT WALLS AND ROOF TO BE OF CONCRETE
2. LIDS AND FRAMES OF OPENING TO BE SET IN PLACE, NOT IN CONCRETE
3. VALVES ON EACH SIDE OF GENERAL METER FOR 1 1/2" DIA. OR 2" SERVICE TO HAVE SCREW ENDS, I.P. THREADS, FOR 3" AND ABOVE, VALVES MUST HAVE FLANGED ENDS & BE IN ALIGNMENT. ALL VALVES MUST BE ADEQUATELY SECURED TO WITHSTAND WATER THRUST WITH METER REMOVED.
4. DRAINAGE FACILITIES MUST BE PROVIDED BETWEEN METER PIT AND THE DDCV AND DETECTOR CHECK/BYPASS METER.
5. DRAINAGE FACILITIES MUST BE PROVIDED, OR BOX OTHERWISE KEPT FREE OF WATER, NO FRENCH DRAINS ALLOWED UNLESS APPROVED BY AUTHORIZED COMPANY REPRESENTATIVE.
6. CLASS 52 DI PIPE EXTENDED MIN. 6' FROM OUTLET SIDE OF METER PIT. (ZINC COATED DI PIPE WITH V-BIO POLYWRAP OPTIONAL IN HIGHLY CORROSIVE SOIL AREAS)
7. TYP. 4", 6", 8" COPPER ON DOMESTIC--EXTENDED MIN. 6' FROM OUTLET SIDE OF METER PIT.
8. ANY DEVIATION FROM PIPE DEPTH SHOWN MUST BE APPROVED BY AUTHORIZED COMPANY REPRESENTATIVE PRIOR TO CONSTRUCTION.
9. METER BOX CONTROL VALVE TO BE LOCATED AS NEAR TO METER BOX AS PRACTICAL.
10. BOX TO BE SET WITH TOP OF BOX FLUSH WITH FINISHED GRADE WITH NO EXTENSION ALLOWED.
11. CLOSURE OF WATER MAIN TO BE MADE AFTER THE METER PIT AND PIPING ARE COMPLETE AND PROPERTY LINE VALVE INSTALLED, CLOSURE APPROVED BY AUTHORIZED COMPANY REPRESENTATIVE.
12. LIDS SHALL BE MADE OF ALUMINUM AND SPRING LOADED. OPENING SHALL BE 48"x 96" TO ALLOW UNRESTRICTED ACCESS. OPENING TO BE FLUSH WITH OUTLET SIDE OF DOMESTIC WATER SERVICE VALVE FLANGE.
13. DRAIN NEEDS TO BE GRADED TO ALLOW WATER DRAINAGE AWAY AND OUT FROM VAULT.
14. CHECK VALVES REQUIRED FOR EACH METER BOX INSTALLATION AND SHALL BE RATED AT 250 PSI AND SHALL HAVE A RESILENT SEAT.
15. ALL STEEL BOLTS INCLUDING THE NUTS, WASHERS, LUGS, CLAMPS, AND BRACKETS USED FOR BOLT ACCESSORIES SHALL CONFORM TO AWWA C111 STANDARDS AND SHALL BE FACTORY COATED WITH AN APPROVED PTFE FLUOROPOLYMER COATING. THREADED RODS INCLUDING THE NUTS AND STANDARD WASHERS USED FOR THREADED ROD ACCESSORIES SHALL MEET ASTM F1554 GRADE 55 OR GRADE 105 WITH HEAVY HEX DH NUTS AND SHALL BE COATED WITH PTFE FLUOROPOLYMER COATING. APPROVED PTFE FLUOROPOLYMER COATING PRODUCTS INCLUDE FLUOROKOTE #1™, OR XYLAN™, SERIES 1420, 1421, 1424, OR APPROVED EQUAL. PTFE FLUOROPOLYMER COATINGS SHALL BE BAKED ON OR THERMALLY SET BY THE COATING MANUFACTURER.

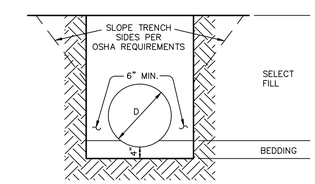
A TEMPORARY FLANGED DUCTILE IRON SPOOL PIECE MUST BE INSTALLED IN THE PLACE OF THE METER LOCATION(S), 3" AND LARGER, TO ENSURE PIPE ALIGNMENT. MAWC PERSONNEL WILL REMOVE SPOOL PIECE AT TIME OF METER INSTALLATION AND WILL LEAVE IN METER VAULT FOR CONTRACTOR TO ACQUIRE FOR FUTURE USE.

SUBJECT TO REVISION WITHOUT NOTICE 10-25-2023

METER BOX FOR SPLIT SERVICE

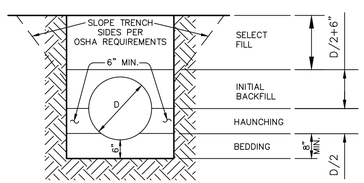
PRINT AND READ DISCLAIMER WITH ALL MAWC DRAWINGS

CAD /DISTRIB/DETAILS/METERBOX/METERBOX_20200821.DWG



RIGID PIPE: INCLUDES REINFORCED CONCRETE, DUCTILE IRON, & CAST IRON

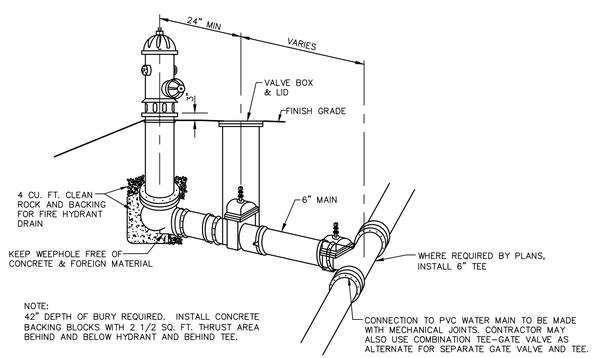
1. BEDDING SHALL BE COMPACTED SAND AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
2. SELECT FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS, AND ORGANICS (3"+) AND SHALL BE PLACED IN 8" MAX. LOOSE LIFTS AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
3. PROVIDE 6" BEDDING IF ROCK OR STONES ARE ENCOUNTERED.



FLEXIBLE PIPE: INCLUDES CORRUGATED METAL PIPE. CORRUGATED POLYETHELENE PIPE AND/OR POLYVINYL CHLORIDE PIPE.

1. BEDDING AND HAUNCHING MATERIAL SHALL BE COMPACTED SAND, UNLESS NOTED OTHERWISE ON PLANS AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
2. INITIAL BACKFILL MATERIAL SHALL BE GRANULAR MATERIAL OR SELECT MATERIAL (INCLUDING SAND) COMPACTED IN ACCORDANCE TO SPECIFICATIONS.
3. SELECT FILL PLACEMENT AND COMPACTION SAME AS FOR RIGID PIPE.

WATER SERVICE TRENCH AND BEDDING DETAILS 206

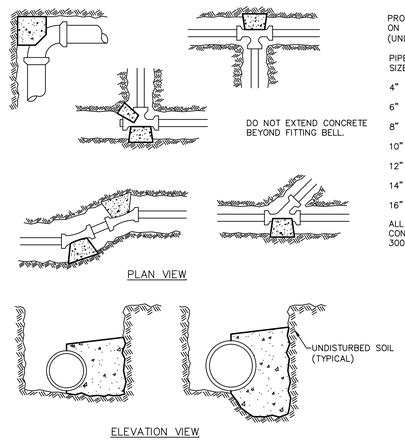


NOTE:
42" DEPTH OF BURY REQUIRED. INSTALL CONCRETE BACKING BLOCKS WITH 2 1/2 SQ. FT. THRUST AREA BEHIND AND BELOW HYDRANT AND BEHIND TEE.

FIRE HYDRANT ASSEMBLY 230

NOTE:

- CONTRACTOR TO TAKE CARE IN PLACING FIRE HYDRANT AT PROPER ELEVATIONS. ANY ADJUSTMENTS OR FITTINGS REQUIRED TO PLACE HYDRANT AT PROPER ELEVATION WILL BE AT THE CONTRACTORS EXPENSE INCLUDING INSTALLATION ON EXISTING MAINS. WHEN FIRE HYDRANT IS LOCATED WITHIN 4'-0" OF WATER MAIN THERE WILL BE NO PAYMENT FOR WATER MAIN. UP TO 4'-0" IS PAID FOR UNDER FIRE HYDRANT WITH GATE VALVE BID ITEM.
- HYDRANT AND VALVE MAKE AND MODEL SHALL BE PER MISSOURI AMERICAN WATER STANDARD SPECIFICATIONS



PROVIDE MINIMUM BEARING AREA IN S.F. AS FOLLOWS BASED ON 150 PSI TEST PRESSURE AND 2000 PSF SOIL BEARING, (UNLESS OTHERWISE DETAILED).

PIPE SIZE	TEE DEADENDS	11 1/4 BEND	22 1/2 BEND	45 BEND	90 BEND
4"	1.0	0.5	0.5	0.8	1.3
6"	2.2	0.5	0.9	1.6	3.0
8"	3.8	0.8	1.5	2.9	5.3
10"	6.0	1.2	2.3	4.5	8.4
12"	8.5	1.7	3.3	6.5	12.1
14"	11.6	2.3	4.5	8.9	16.4
16"	15.2	3.0	5.9	11.5	21.4

ALL BLOCKS MUST BEAR AGAINST UNDISTURBED EARTH. CONCRETE COMPRESSIVE STRENGTH SHALL BE MINIMUM 3000 PSI AT 28 DAYS.

BACKING BLOCKS 200

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538

KAW VALLEY ENGINEERING
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
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lx@kveng.com | www.kveng.com

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI · CHRISTIAN J. CROWDER · NUMBER PE-2015000538 · 9-30-26 · PROFESSIONAL ENGINEER

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Missouri: #000958

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OFFICE OF ADMINISTRATIO
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

UTILITY DETAILS

SHEET NUMBER:

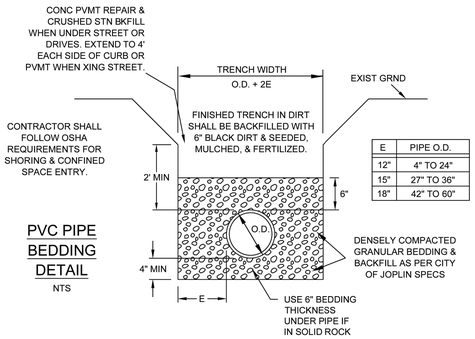
C-590

26 OF 133

September 30, 2026

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

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PVC PIPE BEDDING DETAIL

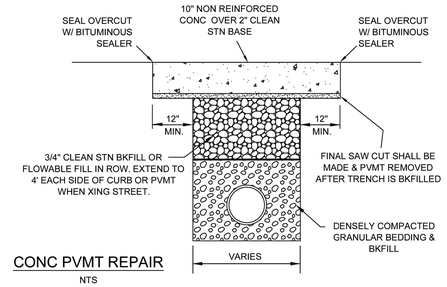
NTS

NOTE:
FOR SANITARY SEWER LATERAL PIPES USE ¾" CLEAN ROCK OR APPROVED EQUIVALENT REQUIRED UNDER THE FULL LENGTH OF THE INSTALLED PIPE.

SAN-01

CITY OF JOPLIN, MO	CKD BY:	JOHNSON
PUBLIC WORKS DEPT	DATE:	4/2019
ENGINEERING DIVISION	ENGINEER:	HERTZBERG
602 S MAIN ST 64801	FILE:	BEDDET

PROJECT: PVC PIPE BEDDING DETAIL



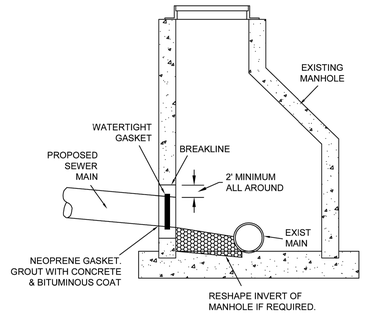
CONC PVMT REPAIR

NTS

SAN-05

CITY OF JOPLIN, MO	CKD BY:	HAGERMAN
PUBLIC WORKS DEPT	DATE:	1/2025
ENGINEERING DIVISION	ENGINEER:	JOHNSON
602 S MAIN ST 64801	FILE:	PVMTREPR

PROJECT: CONC PVMT REPAIR



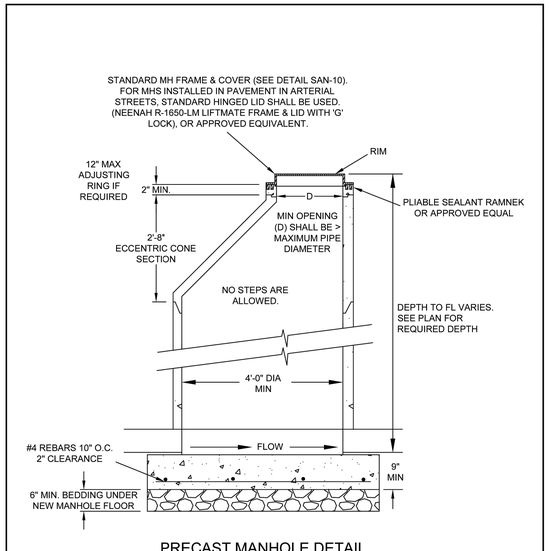
EXISTING MANHOLE TAP

NTS

SAN-06

CITY OF JOPLIN, MO	CKD BY:	HAGERMAN
PUBLIC WORKS DEPT	DATE:	1/2023
ENGINEERING DIVISION	ENGINEER:	JOHNSON
602 S MAIN ST 64801	FILE:	MHTAP

PROJECT: EXISTING MANHOLE TAP



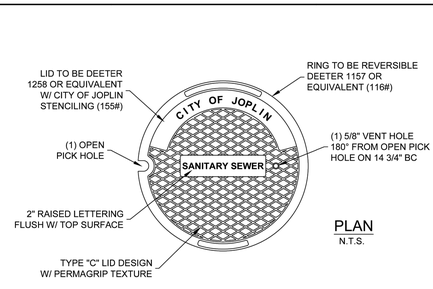
PRECAST MANHOLE DETAIL

N.T.S.

SAN-09

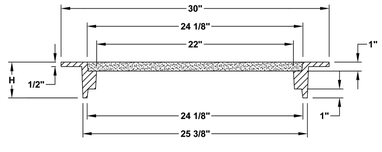
CITY OF JOPLIN, MO	CKD BY:	HAGERMAN
PUBLIC WORKS DEPT	DATE:	1/2023
ENGINEERING DIVISION	ENGINEER:	JOHNSON
602 S MAIN ST 64801	FILE:	MHPRECAST

PROJECT: PRECAST MH DETAIL



PLAN

N.T.S.



SECTION

N.T.S.

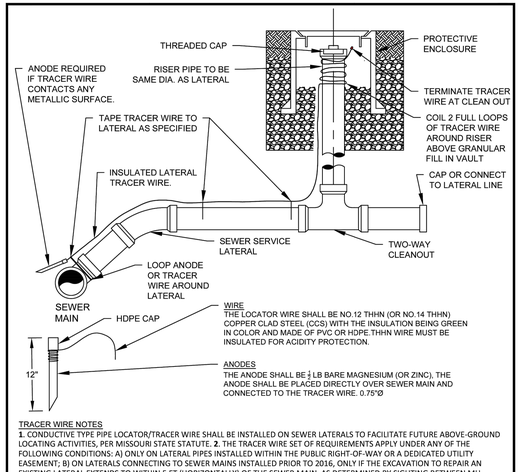
NOTES:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
2. RING IS REVERSIBLE AND CAN BE INSTALLED WITH FLANGE UP OR DOWN.
3. AVAILABLE HEIGHTS (H) ARE 4", 7.5", & 8".

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B FINISH: NO PAINT

SAN-10

CITY OF JOPLIN, MO	CKD BY:	JOHNSON
PUBLIC WORKS DEPT	DATE:	2/2019
ENGINEERING DIVISION	ENGINEER:	HERTZBERG
602 S MAIN ST 64801	FILE:	MHLID

PROJECT: STANDARD SAN SEWER MH RING & COVER



TRACER WIRE NOTES
1. CONDUCTIVE TYPE PIPE LOCATOR/TRACER WIRE SHALL BE INSTALLED ON SEWER LATERALS TO FACILITATE FUTURE ABOVE-GROUND LOCATING ACTIVITIES, PER MISSOURI STATE STATUTE. **2.** THE TRACER WIRE SET OF REQUIREMENTS APPLY UNDER ANY OF THE FOLLOWING CONDITIONS: A) ONLY ON LATERAL PIPES INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY OR A DEDICATED UTILITY EASEMENT; B) ON LATERALS CONNECTING TO SEWER MAINS INSTALLED PRIOR TO 2016, ONLY IF THE EXCAVATION TO REPAIR AN EXISTING LATERAL EXTENDS TO WITHIN 5 FT (HORIZONTALLY) OF THE SEWER MAIN, AS DETERMINED BY SIGHTING BETWEEN MH COVERS; OR, C) ON LATERAL PIPES INSTALLED AS PART OF A SEWER MAIN EXTENSION. **3.** THE WIRE SHALL BE INSTALLED DIRECTLY ON TOP OF THE PIPE AND SECURED TO THE LATERAL BY TAPE AT BASE OF RISER, SEWER MAIN AND EVERY 10'. A STRIP OF DUCT TAPE IS ACCEPTABLE FOR ATTACHMENT. **4.** CAP THE END OF THE WIRE INSIDE THE PROTECTIVE ENCLOSURE WITH A THERMOPLASTIC SHELL CONNECTOR RATED FOR DAMP, UNDERGROUND APPLICATIONS (THE MUDBUG BY IDEAL, OR EQUIVALENT). 5. CONDUCTIVITY TO BE TESTED BEFORE ACCEPTANCE.

ADJUSTMENTS TO EXISTING
CORROSION PROOF WIRE CONNECTORS SHALL BE USED AT SPLICE LOCATIONS. ELECTRICAL TAPE SHALL BE USED AND NO BARE WIRE SHALL BE EXPOSED. CONDUCTIVITY TO BE TESTED BEFORE ACCEPTANCE.

TRACER WIRE DETAIL

NTS

SAN-16

CITY OF JOPLIN, MO	CKD BY:	HAGERMAN
PUBLIC WORKS DEPT	DATE:	1/2023
ENGINEERING DIVISION	ENGINEER:	JOHNSON
602 S MAIN ST 64801	FILE:	TRACER WIRE

PROJECT: TRACER WIRE FOR SERVICE LINES

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN
CHRISTIAN J. CROWDER
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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
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PE-2015000538
9-30-26
PROFESSIONAL ENGINEER

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

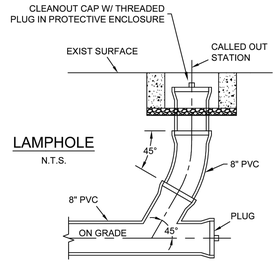
UTILITY DETAILS

SHEET NUMBER:

C-591

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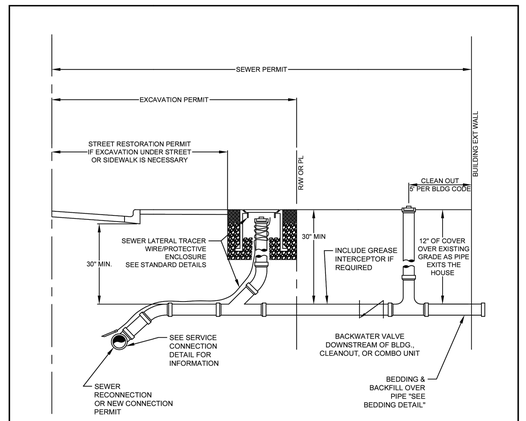
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INSTALLATION ALLOWED ONLY UPON CITY ENGINEER'S APPROVAL.

SAN-21

CITY OF JOPLIN, MO	CKD BY: JOHNSON	PROJECT
PUBLIC WORKS DEPT	DATE: 2/2019	SANITARY SEWER LAMPHOLE
ENGINEERING DIVISION	ENGINEER: HERTZBERG	
602 S MAIN ST 64801	FILE: LAMPHOLE	



NOTE:
1. CLEAN OUTS SHALL BE REQUIRED FOR ALL 90° BENDS IN PIPE ALIGNMENT.
2. FOR BENDS LESS THAN 45° INSTALL CLEANOUTS PER THE GUIDELINES FOUND IN THE INTERNATIONAL PLUMBING CODE, LATEST ADOPTED VERSION.

COMMERCIAL/RESIDENTIAL PERMITS FOR SANITARY SEWER
NTS

SAN-25

CITY OF JOPLIN, MO	CKD BY: JOHNSON	PROJECT
PUBLIC WORKS DEPT	DATE: 4/2019	COMM/RESIDENTIAL SS PERMITS
ENGINEERING DIVISION	ENGINEER: HERTZBERG	
602 S MAIN ST 64801	FILE: C/R-SS PERMITS	

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
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PROJECT # C2512-01
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ISSUE DATE: 9/30/2026

CAD DWG FILE: ___
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

UTILITY DETAILS

SHEET NUMBER:

C-592

September 30, 2026

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538

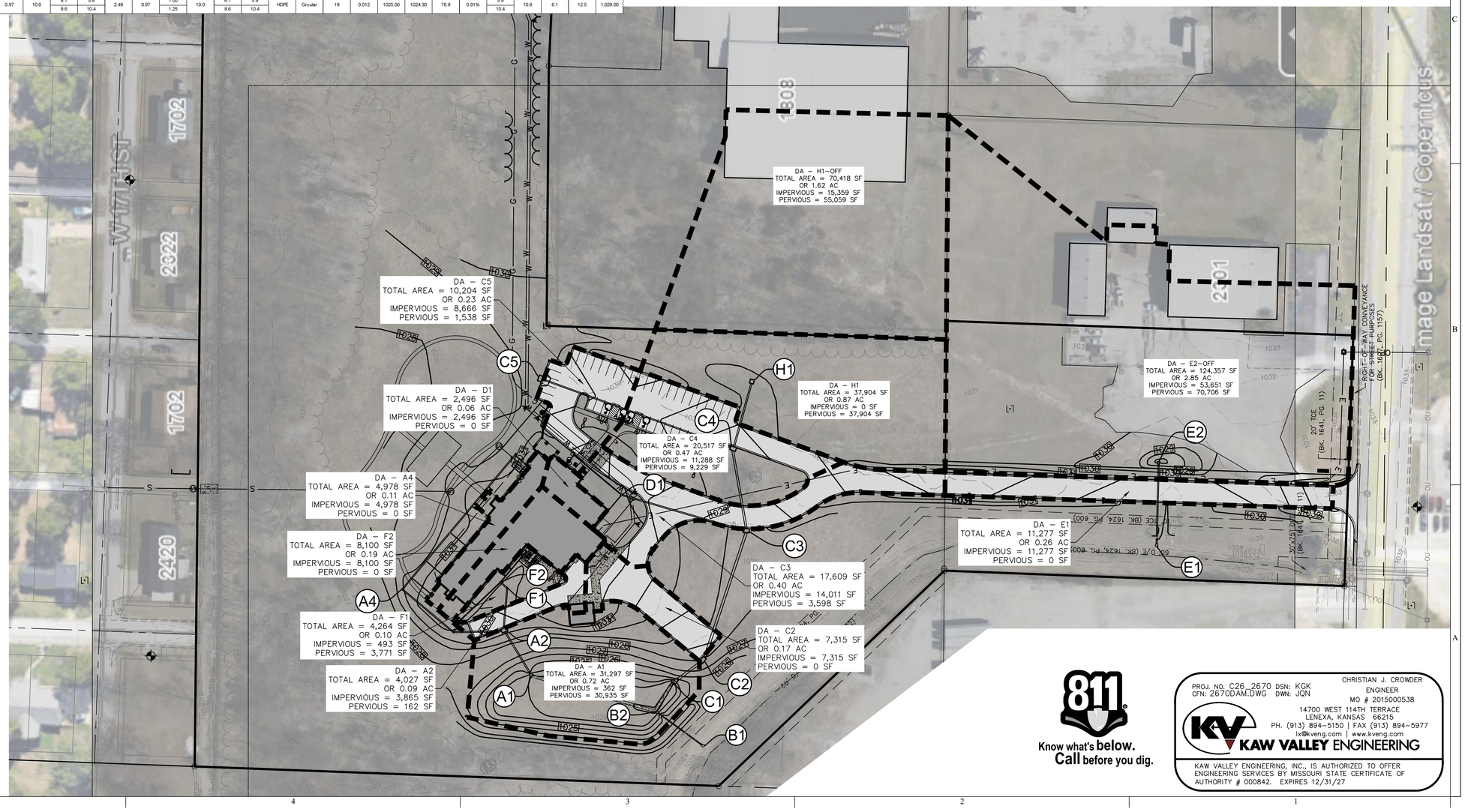
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		Overland Flow									System Flow					Pipe Design										
	K/E	Storm Frequency	Structure	Pipe	Tributary Area, A (ac)	Runoff Coefficient, C	Antecedent Precipitation, K	A x C	(ac) Time of Concentration, Tc (min)	Rainfall Intensity (in/hr)	Tributary Runoff (cfs)	Total Area, A (ac)	Summation of Inlet A x C (ac)	Antecedent Precipitation (in)	System Tc (min)	System Rainfall Intensity (in/hr)	System Discharge (cfs)	Pipe Material	Pipe Shape	Pipe Size, D (in)	Manning's Coefficient	Upstream Invert (ft)	Downstream Invert (ft)	Length (ft)	Pipe Slope	Design Flow (cfs)	Full Flow Capacity (cfs)	Full Flow Velocity (fps)	Flow Time (sec)	Rim Elevation
D	Private	10-year	A5	A5-A4	0.00	0.90	1	0.00	5.0	7.4	0.0	0.00	0.00	1.00	5.0	7.4	0.0	HDPE	Circular	15	0.011	1027.50	1026.50	195.7	0.51%	0.0	5.5	4.4	44.0	1,030.70
		100-year					1.25			10.3	0.0			1.25		10.3	0.0									0.0				
		10-year	A4	A4-A3	0.11	0.90	1	0.10	5.0	7.4	0.8	0.11	0.10	1.00	5.7	7.1	0.7	HDPE	Circular	15	0.012	1026.30	1025.80	74.7	0.67%	0.7	5.7	4.7	16.0	1,030.00
		100-year					1.25			10.3	1.3			1.25		10.0	1.3									1.3				
		10-year	A3	A3-A2	0.00	0.30	1	0.00	5.0	7.4	0.0	0.11	0.10	1.00	6.0	7.1	0.7	HDPE	Circular	15	0.012	1025.60	1025.20	56.9	0.70%	0.7	5.9	4.8	11.9	1,030.80
		100-year					1.25			10.3	0.0			1.25		9.9	1.3									1.3				
		10-year	A2	A2-A1	0.09	0.88	1	0.08	5.0	7.4	0.6	0.49	0.39	1.00	6.2	7.0	2.7	HDPE	Circular	15	0.012	1025.00	1024.00	72.2	1.39%	2.7	8.2	6.7	10.7	1,030.00
		100-year					1.25			10.3	1.0			1.25		9.8	4.8									4.8				
		10-year	A1																											
		100-year																												
		10-year	C5	C5-C4	0.23	0.81	1	0.19	5.0	7.4	1.4	0.23	0.19	1.00	5.0	7.4	1.4	HDPE	Circular	15	0.012	1025.40	1024.50	231.0	0.39%	1.4	4.4	3.6	64.9	1,029.40
		100-year					1.25			10.3	2.4			1.25		10.3	2.4									2.4				
		10-year	C4	C4-C3	0.47	0.63	1	0.30	5.0	7.4	2.2	3.19	1.46	1.00	10.0	6.1	8.8	HDPE	Circular	24	0.012	1023.80	1023.40	93.0	0.43%	8.8	16.1	5.1	18.2	1,029.00
		100-year					1.25			10.3	3.8			1.25		8.6	15.6									15.6				
		10-year	C3	C3-C2	0.40	0.78	1	0.32	5.0	7.4	2.3	3.65	1.82	1.00	10.3	6.0	11.0	HDPE	Circular	30	0.012	1022.90	1022.30	152.5	0.39%	11.0	27.9	5.7	26.9	1,028.70
		100-year					1.25			10.3	4.1			1.25		8.5	19.4									19.4				
		10-year	C2	C2-C1	0.17	0.90	1	0.15	5.0	7.4	1.1	3.82	1.97	1.00	10.8	5.9	11.7	HDPE	Circular	30	0.012	1022.20	1022.00	63.9	0.31%	11.7	24.9	5.1	12.6	1,027.80
		100-year					1.25			10.3	1.9			1.25		8.4	20.7									20.7				
		10-year	C1																											
		100-year																												
		10-year	D2	D2-D1	0.00	0.90	1	0.00	5.0	7.4	0.0	0.00	0.00	1.00	5.0	7.4	0.0	HDPE	Circular	15	0.012	1028.00	1027.60	62.6	0.64%	0.0	5.6	4.6	13.7	1,031.50
		100-year					1.25			10.3	0.0			1.25		10.3	0.0									0.0				
		10-year	D1	D1-C3	0.06	0.90	1	0.05	5.0	7.4	0.4	0.06	0.05	1.00	5.2	7.3	0.4	HDPE	Circular	15	0.012	1027.40	1024.00	151.1	2.25%	0.4	10.5	8.6	17.7	1,031.25
		100-year					1.25			10.3	0.7			1.25		10.2	0.7									0.7				
		10-year	E2	E2-E1	2.86	0.56	1	1.60	10.0	6.1	9.7	2.86	1.60	1.00	10.0	6.1	9.7	HDPE	Circular	18	0.012	1026.50	1026.00	125.0	0.40%	9.7	7.2	4.1	30.7	1,029.50
		100-year					1.25			8.6	17.2			1.25		8.6	17.2									17.2				
		10-year	F2	F2-F1	0.19	0.90	1	0.17	5.0	7.4	1.2	0.19	0.17	1.00	5.0	7.4	1.2	HDPE	Circular	15	0.012	1027.30	1027.10	10.0	2.00%	1.2	9.9	8.1	1.2	1,031.20
		100-year					1.25			10.3	2.2			1.25		10.3	2.2									2.2				
		10-year	F1	F1-A2	0.10	0.37	1	0.04	5.0	7.4	0.3	0.28	0.20	1.00	5.0	7.3	1.5	HDPE	Circular	15	0.012	1026.90	1025.20	47.1	3.61%	1.5	13.3	10.8	4.4	1,030.00
		100-year					1.25			10.3	0.5			1.25		10.3	2.6									2.6				
		10-year	H1	H1-C4	2.49	0.39	1	0.97	10.0	6.1	5.9	2.49	0.97	1.00	10.0	6.1	5.9	HDPE	Circular	18	0.012	1025.00	1024.30	76.9	0.91%	5.9	10.9	6.1	12.5	1,029.00
		100-year					1.25			8.6	10.4			1.25		8.6	10.4									10.4				



0 30 60 120

SCALE: 1" = 60'

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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CHRISTIAN J. CROWDER
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PE-2015000538
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Licensee's Certificate of Authority Number:
Missouri: #000958

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

DRAINAGE AREA MAP

SHEET NUMBER:

C-600

29 OF 133

September 30, 2026

Know what's below. Call before you dig.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DAM.DWG DWN: JQN

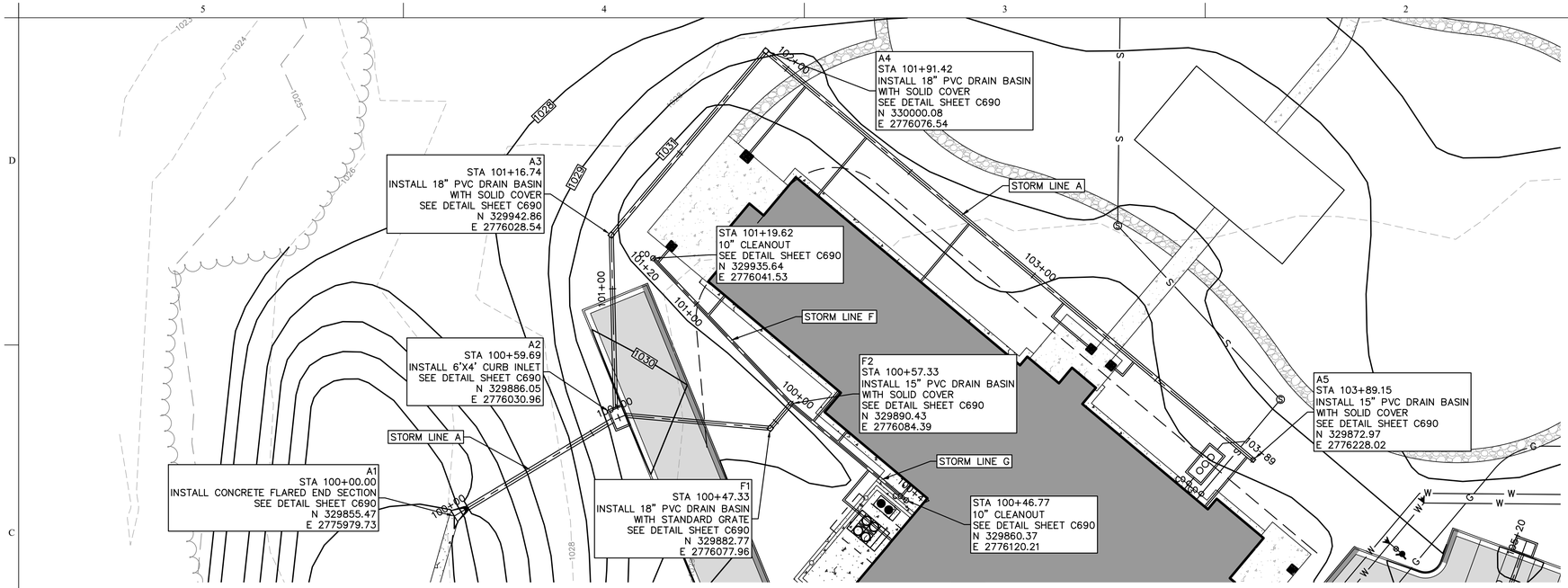
CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538

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14700 WEST 114TH TERRACE
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lx@kveng.com | www.kveng.com

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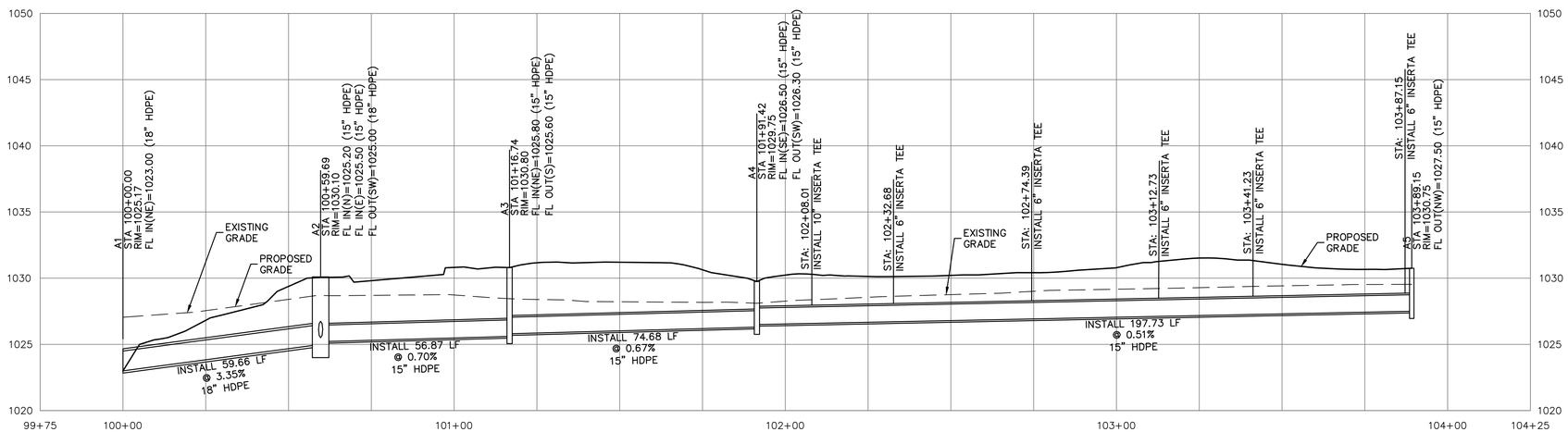
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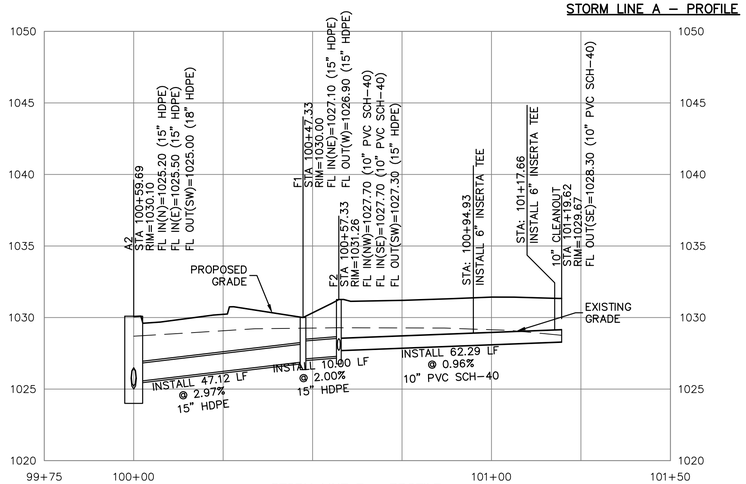


STORM SEWER NOTES:

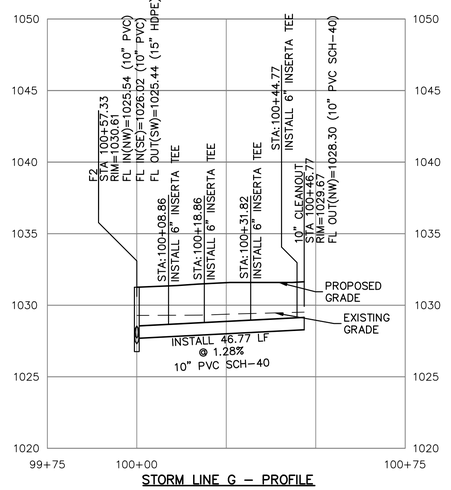
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4. ALL HDPE PIPE SHALL HAVE WATER TIGHT JOINTS



STORM LINE A – PROFILE



STORM LINE F – PROFILE



STORM LINE G – PROFILE

0 10 20 40
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

Know what's **below.**
Call before you dig.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DPP.DWG DWN: JQN

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MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NOTARY
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PROFESSIONAL ENGINEER
9-30-26

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ASSET # 9327033001

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ISSUE DATE: 9/30/2026

CAD DWG FILE: _____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

STORM PLAN AND PROFILE

SHEET NUMBER:

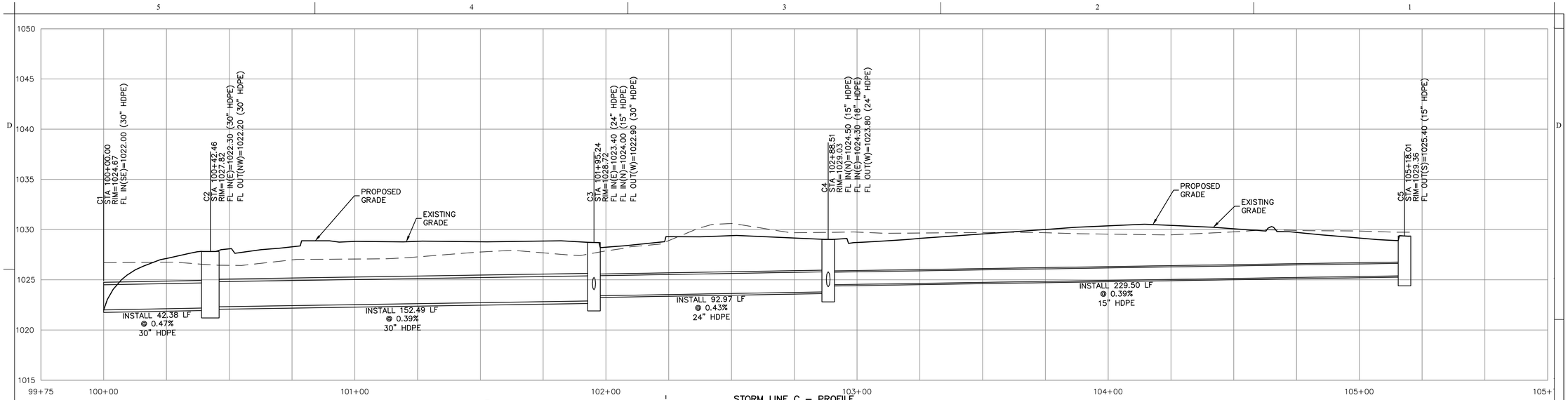
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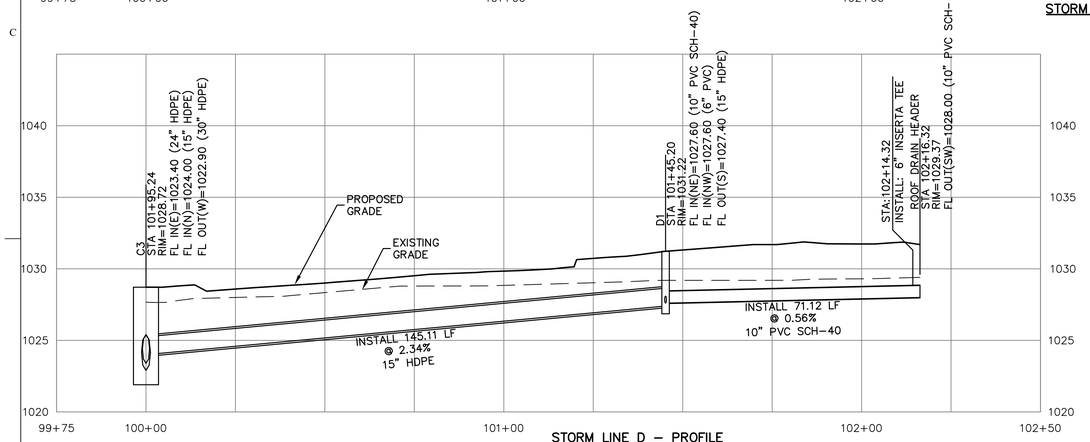
September 30, 2026

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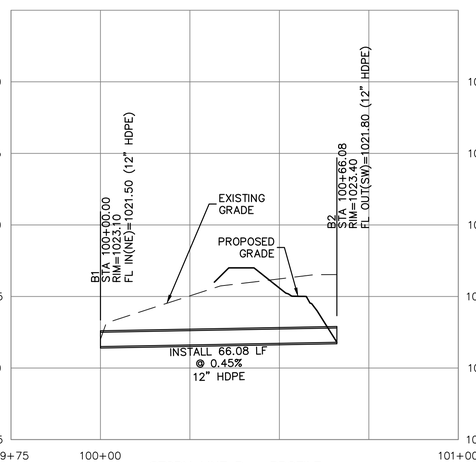
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STORM LINE C – PROFILE



STORM LINE D – PROFILE

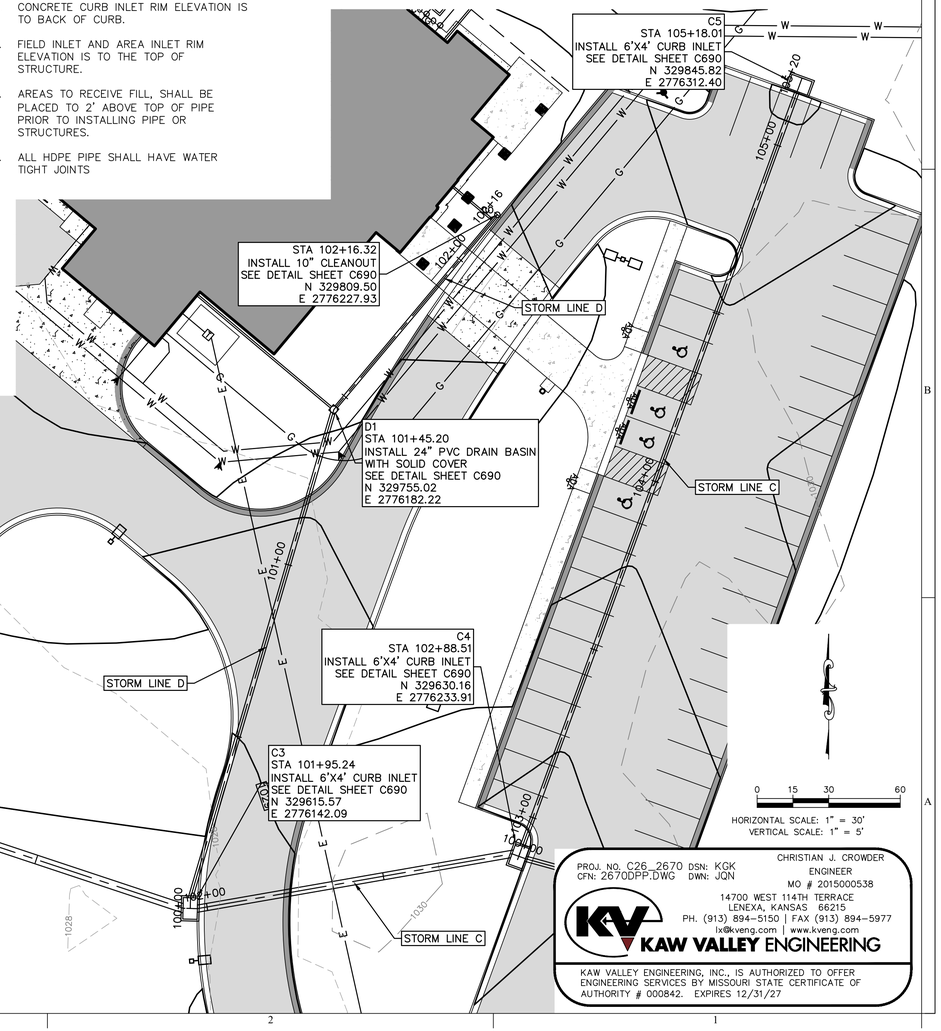


STORM LINE B – PROFILE

811 Know what's below. Call before you dig.

STORM SEWER NOTES:

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0 15 30 60
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 5'

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DPP.DWG DWN: JQN

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STATE OF MISSOURI
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GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NOTARIAL SEAL
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9-30-26
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ASSET # 9327033001

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ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

STORM PLAN AND PROFILE

SHEET NUMBER:

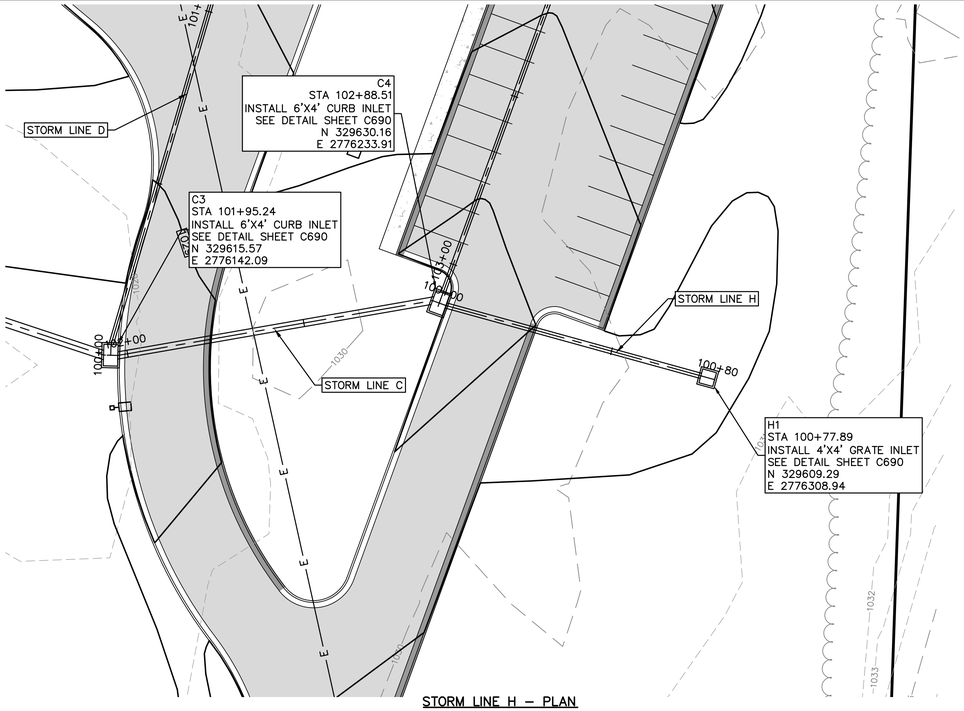
C-611

31 OF 133

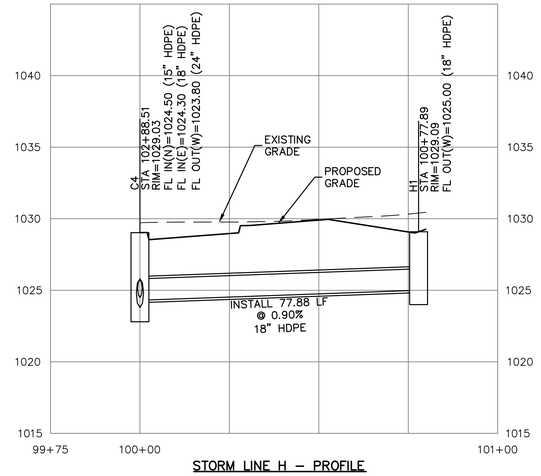
September 30, 2026

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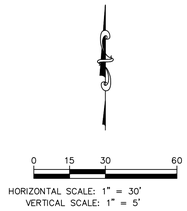
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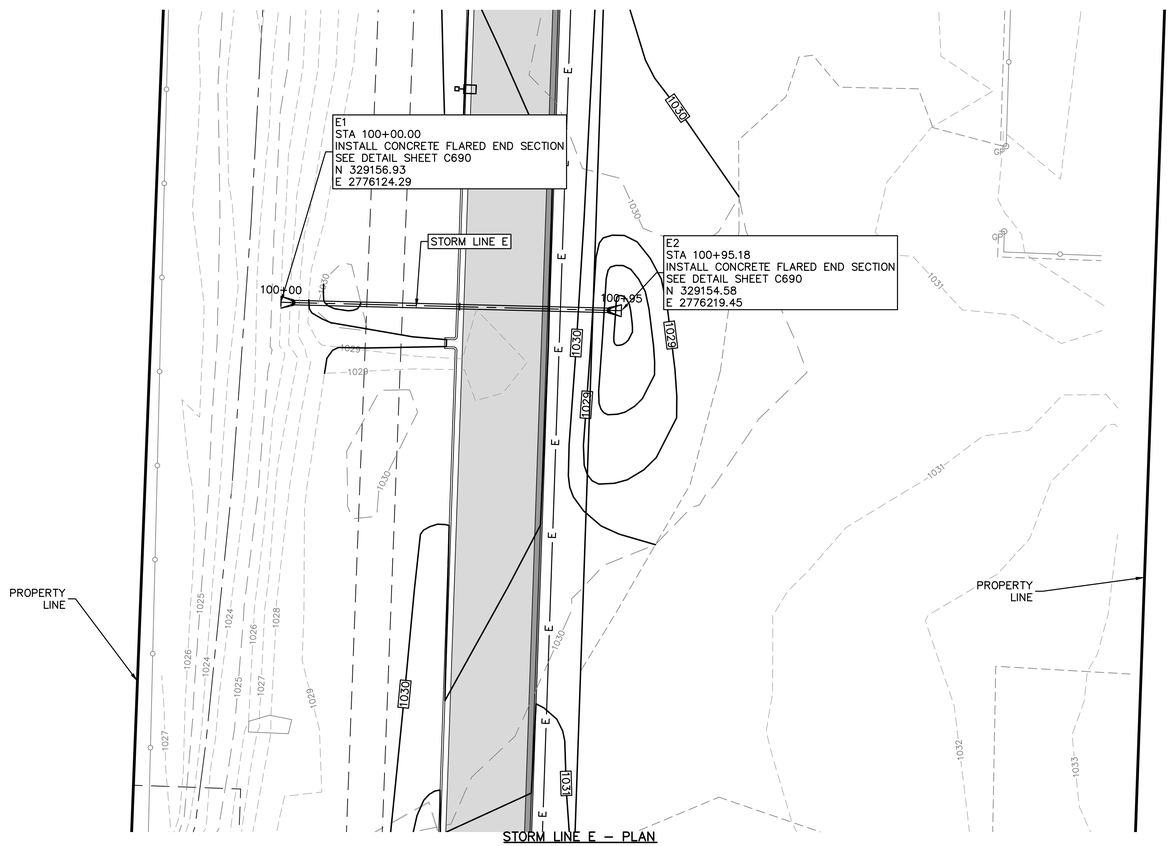
STORM LINE H – PLAN



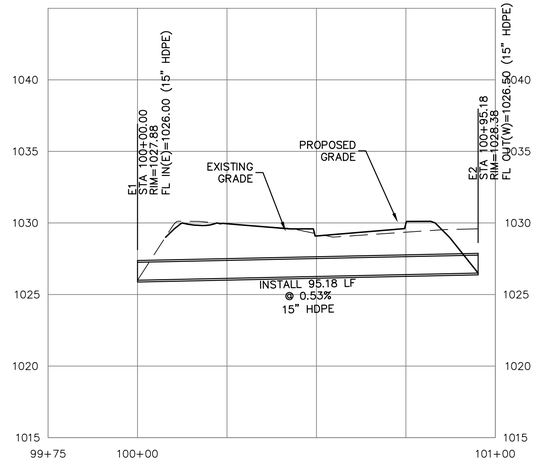
STORM LINE H – PROFILE



HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 5'



STORM LINE E – PLAN



STORM LINE E – PROFILE

STORM SEWER NOTES:

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4. ALL HDPE PIPE SHALL HAVE WATER TIGHT JOINTS

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CFN: 2670DPP.DWG DWN: JQN

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
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9-30-24

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CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

STORM PLAN AND PROFILE

SHEET NUMBER:

C-612

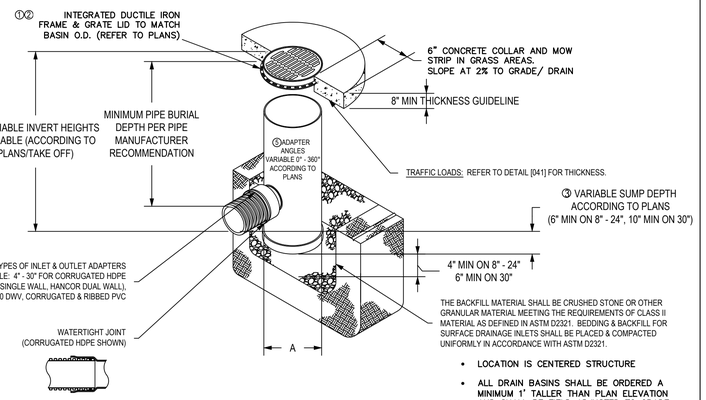
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September 30, 2026

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PVC DRAIN BASIN 450



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

- LOCATION IS CENTERED STRUCTURE
- ALL DRAIN BASINS SHALL BE ORDERED A MINIMUM 1' TALLER THAN PLAN ELEVATION AND SHALL BE FIELD ADJUSTED TO GRADE UPON COMPLETED OF CONSTRUCTION

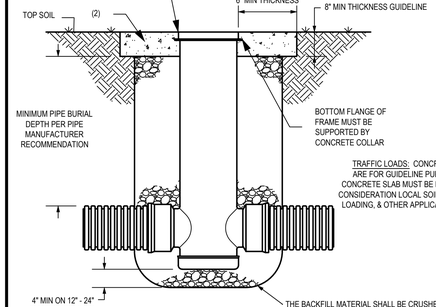
① - 8" - 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE 8" - 15" BRONZE GRATES
② - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
③ - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
④ - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
⑤ - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° . TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
6 - GRATES SHALL MEET H-10 LOAD RATING FOR 12" - 24" PED
7 - GRATES SHALL MEET H-20 LOAD RATING FOR 30" PED & 12" - 30" STD & SOLID
8 - ALL BRONZE GRATES, DROP IN GRATES, & 8" & 10" PED/STD GRATES & SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY
9 - DOME GRATES HAVE NO LOAD RATING

NYLOPLAST BASIN IS THE BASIS OF DESIGN

DRAWN BY EBC	MATERIAL	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 1-23-06			
APPD BY CJA	PROJECT NO./NAME	TITLE	DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL
DATE 1-23-06			
DWG SIZE A	SCALE 1:40 SHEET 1 OF 1	DWG NO. 7001-110-144	REV D

NYLOPLAST TURF TRAFFIC INSTALLATION

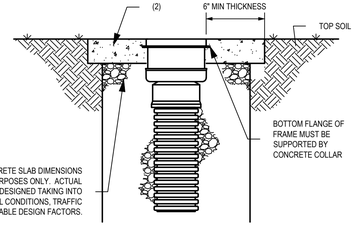
DRAIN BASIN



TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

INLINE DRAIN



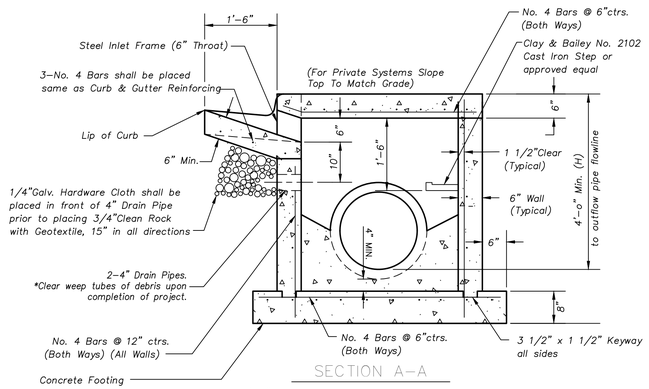
INLINE DRAIN 460

NYLOPLAST BASIN IS THE BASIS OF DESIGN

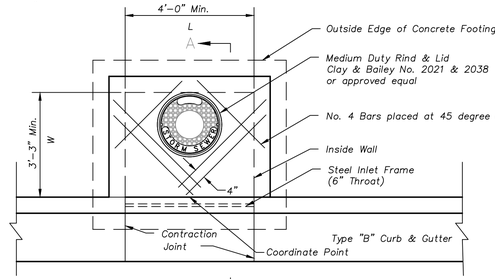
1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

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DRAWN BY EBC	MATERIAL	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 01-05-09			
REVISED BY NMH	PROJECT NO./NAME	TITLE	TURF TRAFFIC INSTALLATION
DATE 06-12-18			
DWG SIZE A	SCALE 1:25 SHEET 1 OF 1	DWG NO. 7001-110-340	REV G



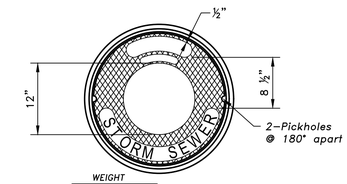
SECTION A–A



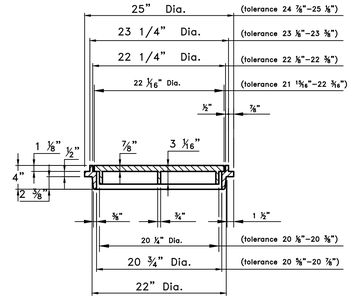
PLAN

NON-SETBACK CURB INLET 401

USE STEEL INLET FRAME WITH 6" THROAT PARKING LOTS ONLY



WEIGHT
Lid 135 lbs. (±6.75 lbs.)
Ring 50 lbs. (±2.5 lbs.)



Medium Duty Ring & Lid
Clay & Bailey No. 2020
Deeter No. 2016
or Approved Equal

MANHOLE COVER
(Public Systems Only)

SCALE: 1 ½" = 1'(REV. Feb. 2005)

Manhole Cover Notes:

1. Casting shall comply with ASTM A–48 and AASHTO M306–04.
2. As–cast dimensions may vary ± 1/16 inch per foot.
3. Each Casting shall be marked in accordance with AASHTO M 306–04, Sec.9.
4. Raised surfaces shall be cast as non–skid finish.
5. Horizontal bearing surfaces shall be machined.
6. Paint is optional unless specified.

JUNCTION BOX YARD INLETS AND CURB INLET NOTES

GENERAL

1. ALL STORM SEWER STRUCTURES SHALL BE PRE–CAST OR POURED IN PLACE. IF PRE–CAST STRUCTURES ARE USED FOR PUBLICLY FINANCED, MAINTAINED OR ADMINISTERED CONSTRUCTION, THE TOPS SHALL BE POURED IN PLACE AND THE WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION, OR AS DIRECTED BY THE CITY ENGINEER.
2. PRE–CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.

CONCRETE

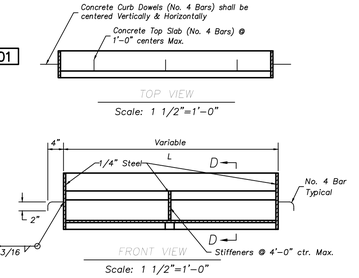
5. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
6. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCIB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
7. INLET FLOORS SHALL BE SHAPED WITH NON–REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
8. BEVEL ALL EXPOSED EDGES WITH ¾" TRIANGULAR MOLDING.
9. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H"+"L" NOR "H"+"W" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
10. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

REINFORCING STEEL

11. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/– ⅛" SHALL BE PERMITTED.
13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'–0" MAXIMUM SPACING.
15. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

CONSTRUCTION

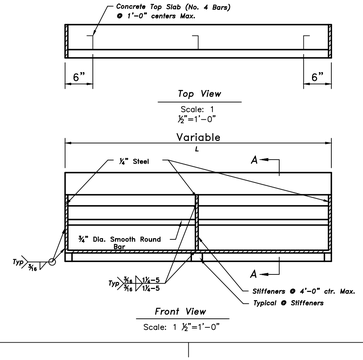
16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
17. PIPE CONNECTIONS TO PRE–CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
18. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.



Notes: 1. All Welds shall be performed in accordance with appropriate AWS Specifications & Procedures.
2. All Welds on Exposed Surfaces shall be dressed so as to provide a pleasing finished appearance.
3. The Entire Frame shall be Hot Dip Zinc in Accordance ASTM A–123.

STEEL INLET FRAME (6" AND 10" THROAT)

USE 6" WITH NON–SETBACK CURB INLET/AREA INLET
USE 10" WITH SETBACK CURB INLET



STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI — CHRISTIAN J. CROWDER — NUMBER PE-2015000538 — PROFESSIONAL ENGINEER — 9-30-26

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DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: ____
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

STORM DETAILS

SHEET NUMBER:

C-690

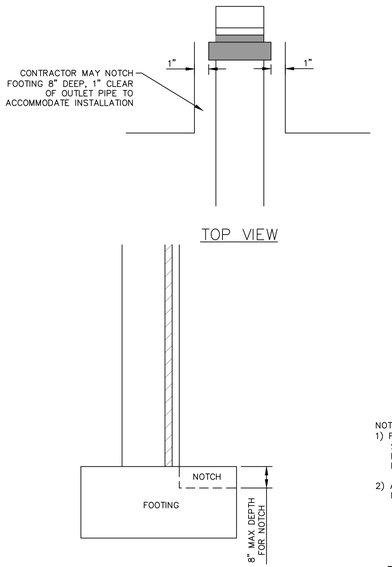
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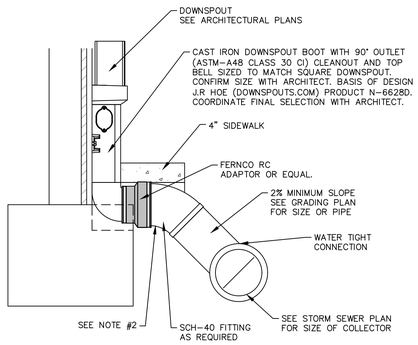
September 30, 2026

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN
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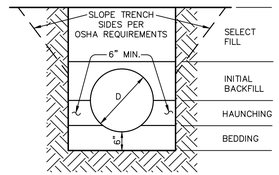


TYPICAL MOUNTING DETAIL

NOTES:
1) FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
2) A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.

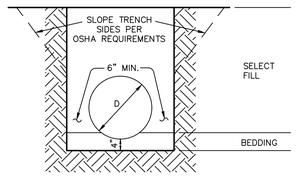
DOWNSPOUT COLLECTOR 433

PIPE OUTLET TO WELL-DEFINED CHANNEL



FLEXIBLE PIPE:
CORRUGATED POLYETHELENE PIPE AND/OR POLYVINYL CHLORIDE PIPE.

1. BEDDING SHALL BE COMPACTED CRUSHED STONE AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
2. HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS I OR II (REF. ASTM D2321) GRANULAR MATERIAL AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
3. SELECT FILL PLACEMENT AND COMPACTION SAME AS FOR RIGID PIPE.

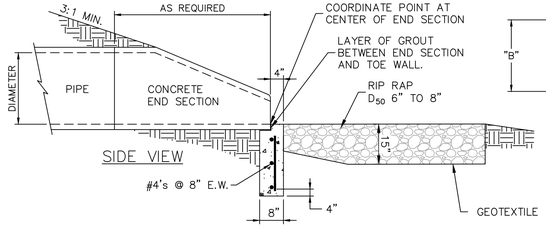


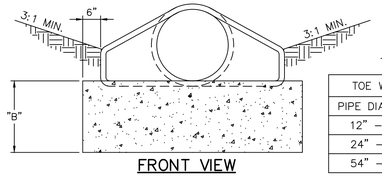
RIGID PIPE: INCLUDES REINFORCED CONCRETE

1. BEDDING SHALL BE COMPACTED SAND AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
2. SELECT FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS, AND ORGANICS (3"+) AND SHALL BE PLACED IN 8" MAX. LOOSE LIFTS AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.

TRENCH AND BEDDING DETAILS

REFER TO KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2102.4



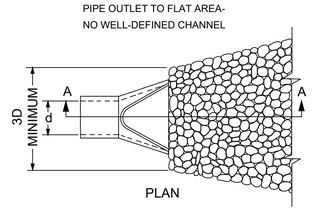


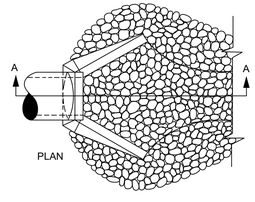
TOE WALL DEPTH	
PIPE DIAMETER	"B"
12" – 21"	24"
24" – 48"	30"
54" – 66"	36"

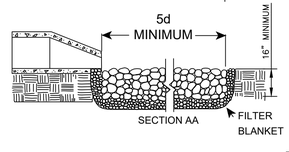
NOTES:
1. THE DEPTH OF THE TOE WALL SHALL BE PER TABLE. IF BEDROCK IS ENCOUNTERED A MINIMUM OF 12" INTO BEDROCK IS REQUIRED.
2. ALL CONCRETE SHALL MEET APWA 2600 SPECIFICATIONS.

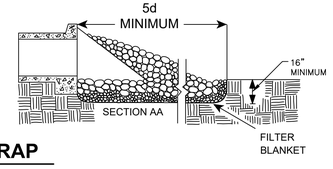
CONCRETE FLARED END SECTION W/ TOE WALL AND RIP RAP STILLING BASIN 406

PIPE OUTLET TO FLAT AREA-
NO WELL-DEFINED CHANNEL









RIP RAP

NOTES
1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
2. THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.
4. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH TO THE TOP OF THE BANK, WHICHEVER IS LESS.
5. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.

MAINTENANCE

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670DET.DWG DWN: JQN
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MIKE KEHOE, GOVERNOR

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JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

STORM DETAILS

SHEET NUMBER:

C-691

September 30, 2026

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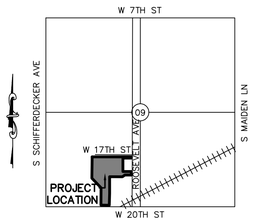
SANITARY SEWER MAIN EXTENSION PLANS
JOPLIN COMMUNITY SUPERVISION CENTER
2303 WEST 20TH STREET
SECTION 9, TOWNSHIP 27 NORTH, RANGE 33 WEST
CITY OF JOPLIN, JASPER COUNTY, MISSOURI

Sheet List Table

C700 TITLE SHEET
C710 SANITARY SEWER PLAN AND PROFILE
C790 SANITARY DETAILS

SUMMARY OF QUANTITIES			
NO.	DESCRIPTION	QTY.	UNIT
1	SANITARY SEWER MANHOLE (4' DIAMETER)	1	EA
2	8" PVC SDR 26 SANITARY SEWER MAIN	97	LF

* CONTRACTOR RESPONSIBLE TO VERIFY ALL QUANTITIES.



VICINITY MAP
SEC 9 – TWP 27N – RNG 33W
NOT TO SCALE

NOTE:
1. **CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED BUILDING PAVING, PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.**
2. **THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.**
3. **ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.**
4. **ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.**
5. **ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.**

FLOOD STATEMENT:
SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND SURVEYED PARCEL IS SHOWN TO BE LOCATED IN ZONE "X" OTHER FLOOD AREAS (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD)AS DEPICTED ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 29097C0258E, MAP REVISED NOVEMBER 2, 2012, CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

CAUTION – NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

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

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

SANITARY SEWER MATERIALS AND CONSTRUCTION NOTES:
1. ALL WORK RELATED TO SANITARY SEWER SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF JOPLIN AND MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARD SPECIFICATIONS.
2. ALL PIPE, FITTINGS, JOINTS, COATINGS AND LININGS USED FOR SANITARY SEWER SHALL BE PVC (SDR 26) AS NOTED ON PLANS. MATERIAL SHALL CONFORM TO CITY OF JOPLIN AND MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARD SPECIFICATIONS.
3. MANHOLES SHALL CONFORM TO CITY OF JOPLIN AND MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARD SPECIFICATIONS.
4. ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
5. ALL INSTALLATION SHALL BE COMPLETED, INSPECTED AND TESTED IN ACCORDANCE WITH CITY OF JOPLIN AND MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARD SPECIFICATIONS.
6. EXCAVATION, TRENCHING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF JOPLIN STANDARD SPECIFICATIONS. AS ALL EXCAVATIONS SHALL BE CONSIDERED UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. COMPACTION TESTS SHALL BE TAKEN AT EACH PAVEMENT CROSSING AND AT LOCATIONS DESIGNATED BY THE CITY INSPECTOR. ALL TRENCH BACKFILL WHICH DOES NOT MEET THE REQUIRED DENSITY, SHALL BE RE-EXCAVATED AND RE-COMPACTED UNTIL THE REQUIRED DENSITY IS OBTAINED. COPIES OF ALL COMPACTION TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER.
7. ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
8. RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT HIS EXPENSE. REFER TO PLANS FOR ADDITIONAL INFORMATION.
9. RIGHT-OF-WAY SHALL BE STABILIZED AND SEEDED IN ACCORDANCE WITH CITY OF JOPLIN STANDARD SPECIFICATIONS.

CONSTRUCTION NOTES:
1. THE OWNER / DEVELOPER REPRESENTATIVE MUST OBTAIN A PUBLIC IMPROVEMENTS PERMIT FROM THE CITY OF JOPLIN, MISSOURI PRIOR TO BEGINNING ANY WORK.
2. THE CITY OF JOPLIN PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF JOPLIN DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, OR DIMENSIONS AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF JOPLIN THROUGH APPROVAL OF THESE DOCUMENTS ASSUMES NO RESPONSIBILITY OTHER THAN AS STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
3. THE OWNER / DEVELOPER REPRESENTATIVE SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF JOPLIN, MISSOURI) AT THE JOB SITE AT ALL TIMES.
4. ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE OWNER / DEVELOPER REPRESENTATIVE TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE OWNER / DEVELOPER REPRESENTATIVE AT HIS EXPENSE.
5. SILTATION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE DISTURBANCE OF THE GROUND.
6. EXISTING CONDITIONS ARE BASED ON THE SURVEY PERFORMED BY KAW VALLEY ENGINEERING.
7. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT FROM THE CITY OF JOPLIN FOR WORK IN W 175TH ST RIGHT-OF-WAY. CONTRACTOR SHALL SUBMIT THEIR TRAFFIC CONTROL PLAN WITH THEIR APPLICATION TEN (10) DAYS IN ADVANCE.
8. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OF ANY PART THEREOF AND ALL REQUIRED AND PROPERLY EXECUTED BONDS AND CONTRACT AGREEMENTS ARE RECEIVED AND APPROVED BY THE CITY OF JOPLIN.
9. CONSTRUCTION INSPECTION WILL BE PROVIDED BY THE CITY OF JOPLIN. COST WILL BE ASSESSED TO THE OWNER.

HORIZONTAL AND VERTICAL DATUM:
UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE, WEST ZONE, 6-27-2012 (JS-008)
CAF: 0.99989575
1 METER = 3.28083333 U.S. SURVEY FEET
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES SCALED AROUND 0,0

JS-008 (PID-HE1217)

NORTHING: 101892.485 (GRID)(METERS)	334327.104 (GROUND)(U.S. SURVEY FEET)
EASTING: 845014.908 (GRID)(METERS)	2772642.188 (GROUND)(U.S. SURVEY FEET)
ELEV = 321.14 (METERS)	1053.61 (U.S. SURVEY FEET)

PROJECT BENCH MARKS:
BM-60
CHISELED SQUARE ON THE WEST END TOP OF CURB OF THE NORTH CURB LINE FOR THE JOPLIN CAFE PARKING LOT AND SOUTH OF WEST 20TH STREET.
ELEV = 1033.35

BM-61
CHISELED SQUARE ON THE EAST TOP OF CURB OF ROOSEVELT AVENUE ACROSS FROM HOUSE # 1722 ROOSEVELT AVENUE.
ELEV = 1029.76

BM-62
CHISELED SQUARE ON THE WEST EDGE OF A CONCRETE PAD FOR DRIVE ON THE WEST SIDE OF JEFFERSON AVENUE NORTH OF DEAD END AND SOUTHWEST OF JEFFERSON AVENUE AND WEST 17TH STREET INTERSECTION.
ELEV = 1021.56

BM-63
CHISELED SQUARE ON TOP OF THE SOUTH CURB LINE OF WEST 17TH STREET EAST OF A FULL HEIGHT TO ZERO HEIGHT TRANSITION CURB FOR A DRIVE AND NORTH OF A LIGHT POLE LABELED EDE419867 BETWEEN SOUTH MONROE AVENUE AND SOUTH MCKINLEY AVENUE.
ELEV = 1027.16

PROJECT CONTROL:
CP #200
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328872.221 (GROUND)
EASTING: 2776058.417 (GROUND)
ELEV = 1032.11

CP #201
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 328863.347 (GROUND)
EASTING: 2776325.289 (GROUND)
ELEV = 1033.57

CP #202
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329320.773 (GROUND)
EASTING: 2776278.310 (GROUND)
ELEV = 1030.69

CP #203
1/2"x24" REBAR W/ CONTROL POINT CAP
NORTHING: 329838.743 (GROUND)
EASTING: 2776371.321 (GROUND)
ELEV = 1029.80

CP #204
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 329920.009 (GROUND)
EASTING: 2777026.385 (GROUND)
ELEV = 1030.46

CP #205
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330277.402 (GROUND)
EASTING: 2777033.924 (GROUND)
ELEV = 1028.15

CP #206
1/2" X 24" REBAR W/ CONTROL POINT CAP
NORTHING: 330355.161 (GROUND)
EASTING: 2776086.591 (GROUND)
ELEV = 1023.34

ENGINEER:
I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED, AND THESE PLANS PREPARED, TO MEET OR EXCEED THE DESIGN CRITERIA OF THE CITY OF JOPLIN AND MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARD SPECIFICATIONS:

STATE OF MISSOURI · CHRISTIAN J. CROWDER · ENGINEER · PE-2015000538 · PROFESSIONAL ENGINEER
9-30-26

_____
MISSOURI PROFESSIONAL ENGINEER
NO. PE-_____

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
PH. (913) 894-5150 | FAX (913) 894-5977
lx@kveng.com | www.kveng.com
KAW VALLEY ENGINEERING

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670TS.DWG DWN: JQN

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

ACI BOLAND ARCHITECTS
ACI/Boland, Inc.
Kansas City
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600
Licensee's Certificate of Authority Number:
Missouri: #000958

CIVIL
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T: 913.780.6707

STRUCTURAL
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Kansas City, MO, 64108
T: 816.421.8282

MEP
Lankford | Fendler + Associates
1740 Walnut St
Kansas City, MO, 64108
T: 816.221.1411

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE: _____
DRAWN BY: _____ Author JQN
CHECKED BY: _____ Checker KGK
DESIGNED BY: _____ Designer KGK

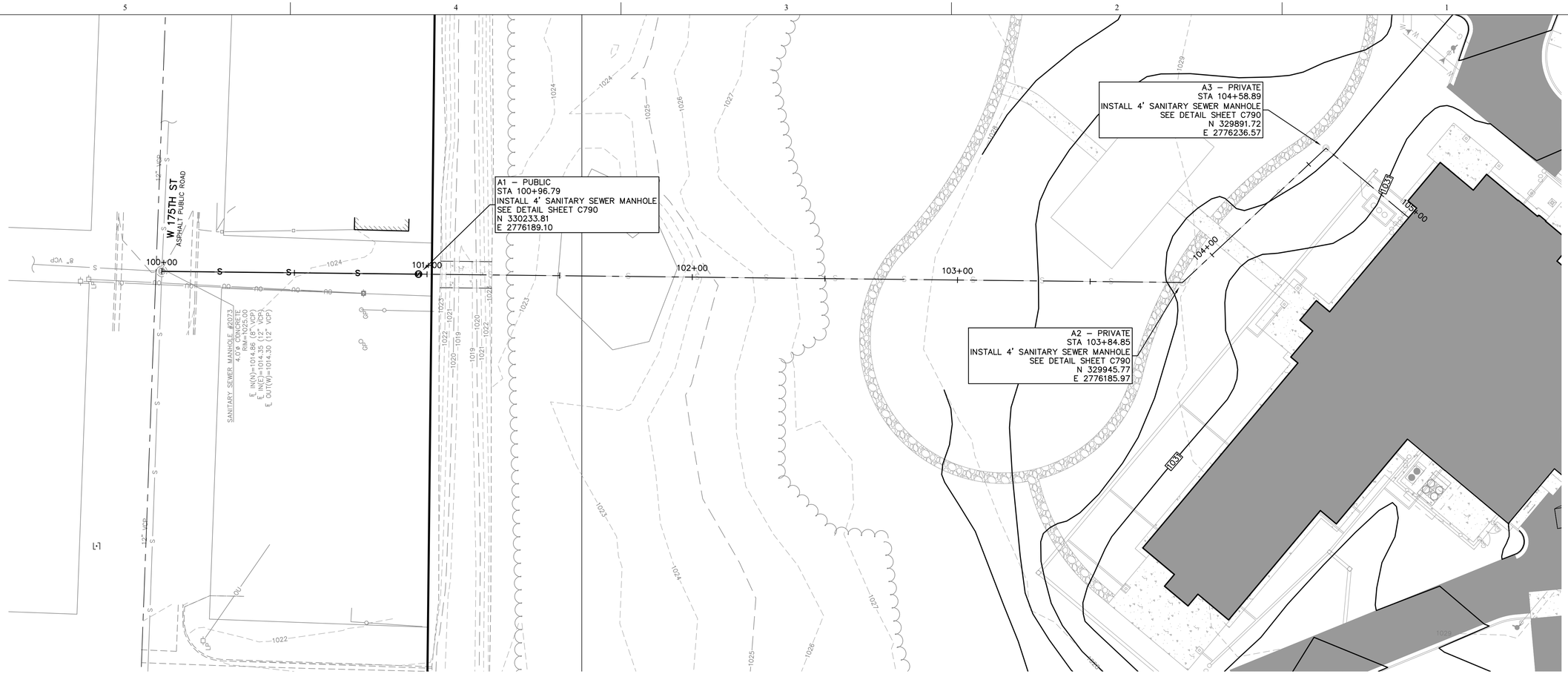
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TITLE SHEET

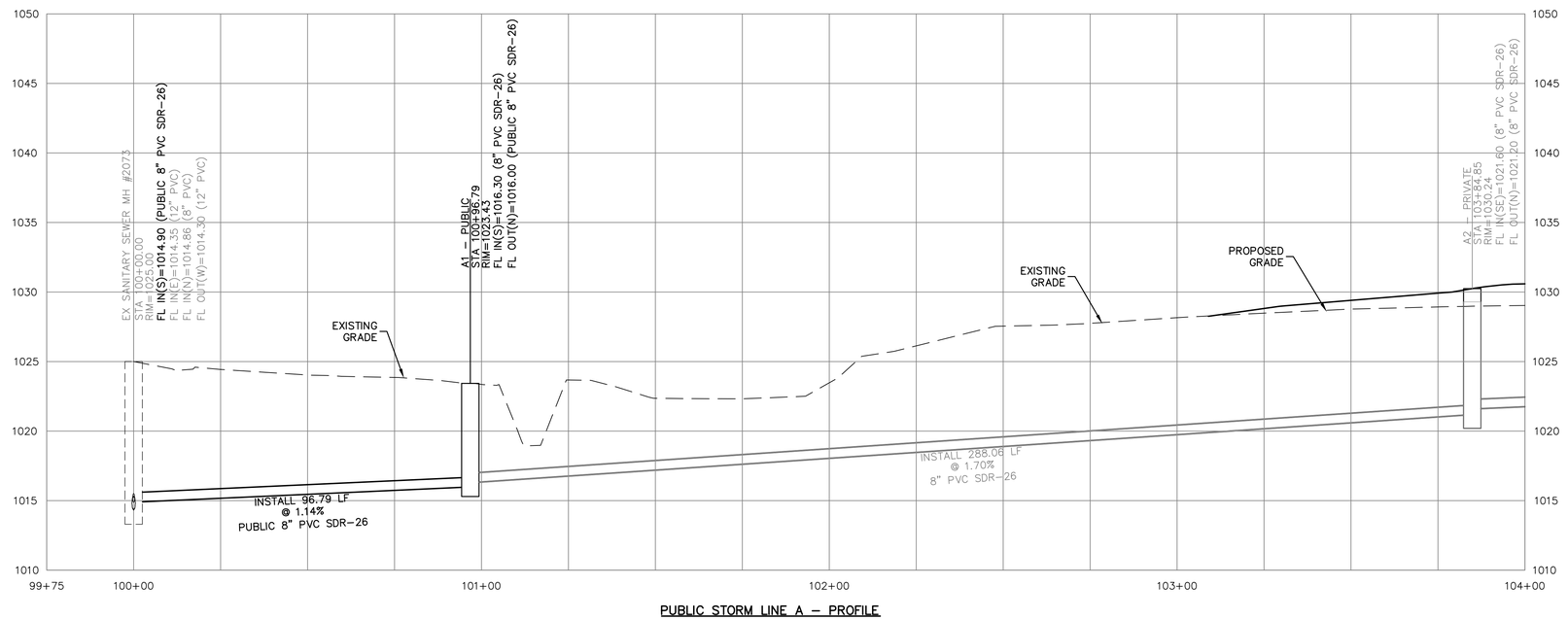
SHEET NUMBER:
C-700
35 OF 133

September 30, 2026

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PUBLIC STORM LINE A – PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

Know what's below. Call before you dig.

PROJ. NO. C26_2670 DSN: KGK
CFN: 2670SPP.DWG DWN: JQN

CHRISTIAN J. CROWDER
ENGINEER
MO # 2015000538

KAW VALLEY ENGINEERING
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LENEXA, KANSAS 66215
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kv@kveng.com | www.kveng.com

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
NUMBER
PE-2015000538
PROFESSIONAL ENGINEER
9-30-26

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF CORRECTIONS

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

SANITARY SEWER PLAN AND PROFILE

SHEET NUMBER:

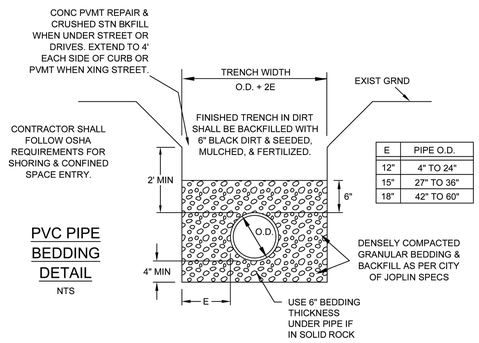
C-710

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September 30, 2026

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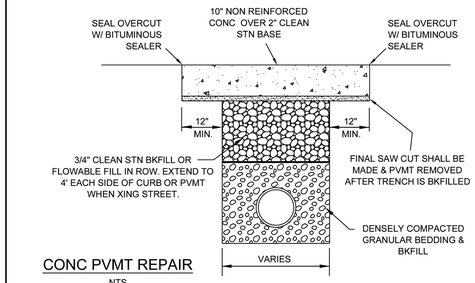
PVC PIPE BEDDING DETAIL

NTS

NOTE:
FOR SANITARY SEWER LATERAL PIPES USE $\frac{3}{4}$" CLEAN ROCK OR APPROVED EQUIVALENT REQUIRED UNDER THE FULL LENGTH OF THE INSTALLED PIPE.

SAN-01

CITY OF JOPLIN			
CITY OF JOPLIN, MO	CKD BY:	JOHNSON	PROJECT
PUBLIC WORKS DEPT	DATE:	4/2019	PVC PIPE
ENGINEERING DIVISION	ENGINEER:	HERTZBERG	BEDDING DETAIL
602 S MAIN ST 64801	FILE:	BEDDET	

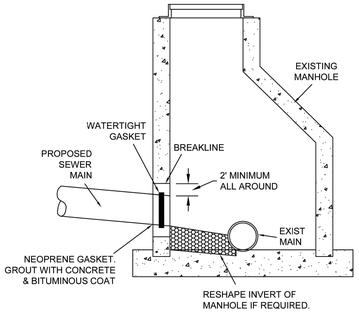


CONC PVMT REPAIR

NTS

SAN-05

CITY OF JOPLIN			
CITY OF JOPLIN, MO	CKD BY:	HAGERMAN	PROJECT
PUBLIC WORKS DEPT	DATE:	1/2025	CONC
ENGINEERING DIVISION	ENGINEER:	JOHNSON	PVMT REPAIR
602 S MAIN ST 64801	FILE:	PVMTREPR	

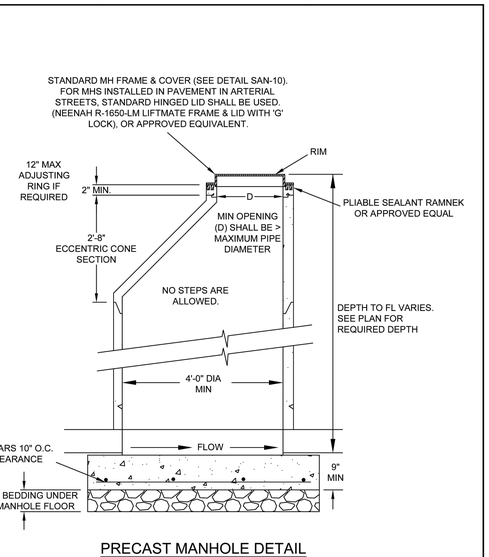


EXISTING MANHOLE TAP

NTS

SAN-06

CITY OF JOPLIN			
CITY OF JOPLIN, MO	CKD BY:	HAGERMAN	PROJECT
PUBLIC WORKS DEPT	DATE:	1/2023	EXISTING
ENGINEERING DIVISION	ENGINEER:	JOHNSON	MANHOLE TAP
602 S MAIN ST 64801	FILE:	MHTAP	

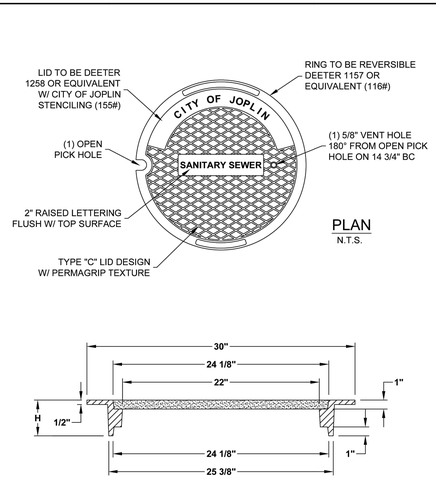


PRECAST MANHOLE DETAIL

N.T.S.

SAN-09

CITY OF JOPLIN			
CITY OF JOPLIN, MO	CKD BY:	HAGERMAN	PROJECT
PUBLIC WORKS DEPT	DATE:	1/2023	PRECAST MH DETAIL
ENGINEERING DIVISION	ENGINEER:	JOHNSON	
602 S MAIN ST 64801	FILE:	MHPRECAST	



PLAN

N.T.S.

SECTION

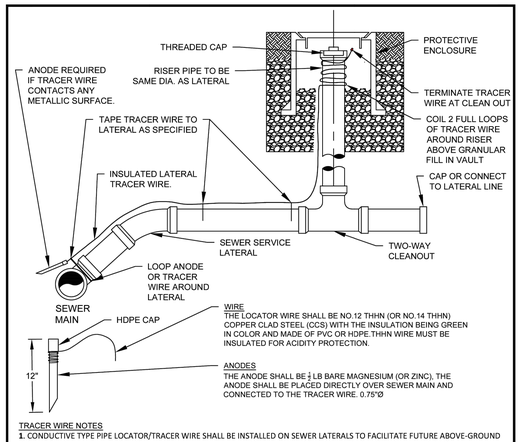
N.T.S.

NOTES:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
2. RING IS REVERSIBLE AND CAN BE INSTALLED WITH FLANGE UP OR DOWN.
3. AVAILABLE HEIGHTS (H) ARE 4", 7.5", & 8".

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B FINISH: NO PAINT

SAN-10

CITY OF JOPLIN			
CITY OF JOPLIN, MO	CKD BY:	JOHNSON	PROJECT
PUBLIC WORKS DEPT	DATE:	2/2019	STANDARD SAN SEWER
ENGINEERING DIVISION	ENGINEER:	HERTZBERG	MH RING & COVER
602 S MAIN ST 64801	FILE:	MHLID	



WIRE
THE LOCATOR WIRE SHALL BE NO.12 THHN (OR NO.14 THHN) COPPER CLAD STEEL (CCS) WITH THE INSULATION BEING GREEN IN COLOR AND MADE OF PVC OR HDPE. THHN WIRE MUST BE INSULATED FOR ACIDITY PROTECTION.

ANODES
THE ANODE SHALL BE $\frac{1}{2}$ LB BARE MAGNESIUM (OR ZINC), THE ANODE SHALL BE PLACED DIRECTLY OVER SEWER MAIN AND CONNECTED TO THE TRACER WIRE. 0.75"Ø

TRACER WIRE NOTES
1. CONDUCTIVE TYPE PIPE LOCATOR/TRACER WIRE SHALL BE INSTALLED ON SEWER LATERALS TO FACILITATE FUTURE ABOVE-GROUND LOCATING ACTIVITIES, PER MISSOURI STATE STATUTE. **2.** THE TRACER WIRE SET OF REQUIREMENTS APPLY UNDER ANY OF THE FOLLOWING CONDITIONS: A) ONLY ON LATERAL PIPES INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY OR A DEDICATED UTILITY EASEMENT; B) ON LATERALS CONNECTING TO SEWER MAINS INSTALLED PRIOR TO 2016, ONLY IF THE EXCAVATION TO REPAIR AN EXISTING LATERAL EXTENDS TO WITHIN 5 FT (HORIZONTALLY) OF THE SEWER MAIN, AS DETERMINED BY SIGHTING BETWEEN MH COVERS; OR, C) ON LATERAL PIPES INSTALLED AS PART OF A SEWER MAIN EXTENSION. **3.** THE WIRE SHALL BE INSTALLED DIRECTLY ON TOP OF THE PIPE AND SECURED TO THE LATERAL BY TAPE AT BASE OF RISER, SEWER MAIN AND EVERY 10'. A STRIP OF DUCT TAPE IS ACCEPTABLE FOR ATTACHMENT. **4.** CAP THE END OF THE WIRE INSIDE THE PROTECTIVE ENCLOSURE WITH A THERMOPLASTIC SHELL CONNECTOR RATED FOR DAMP, UNDERGROUND APPLICATIONS (THE MUDBUG BY IDEAL, OR EQUIVALENT). 5. CONDUCTIVITY TO BE TESTED BEFORE ACCEPTANCE.

ADJUSTMENTS TO EXISTING
CORROSION PROOF WIRE CONNECTORS SHALL BE USED AT SPLICE LOCATIONS. ELECTRICAL TAPE SHALL BE USED AND NO BARE WIRE SHALL BE EXPOSED. CONDUCTIVITY TO BE TESTED BEFORE ACCEPTANCE.

TRACER WIRE DETAIL

NTS

SAN-16

CITY OF JOPLIN			
CITY OF JOPLIN, MO	CKD BY:	HAGERMAN	PROJECT
PUBLIC WORKS DEPT	DATE:	1/2023	TRACER WIRE
ENGINEERING DIVISION	ENGINEER:	JOHNSON	FOR SERVICE LINES
602 S MAIN ST 64801	FILE:	TRACER WIRE	

Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CHRISTIAN J. CROWDER
ENGINEER
PE-2015000538
9-30-26
PROFESSIONAL ENGINEER

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DEPARTMENT OF CORRECTIONS

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2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: 9/30/2026

CAD DWG FILE:
DRAWN BY: Author JQN
CHECKED BY: Checker KGK
DESIGNED BY: Designer KGK

SHEET TITLE:

SANITARY DETAILS

SHEET NUMBER:

C-790

37 OF 133

September 30, 2026

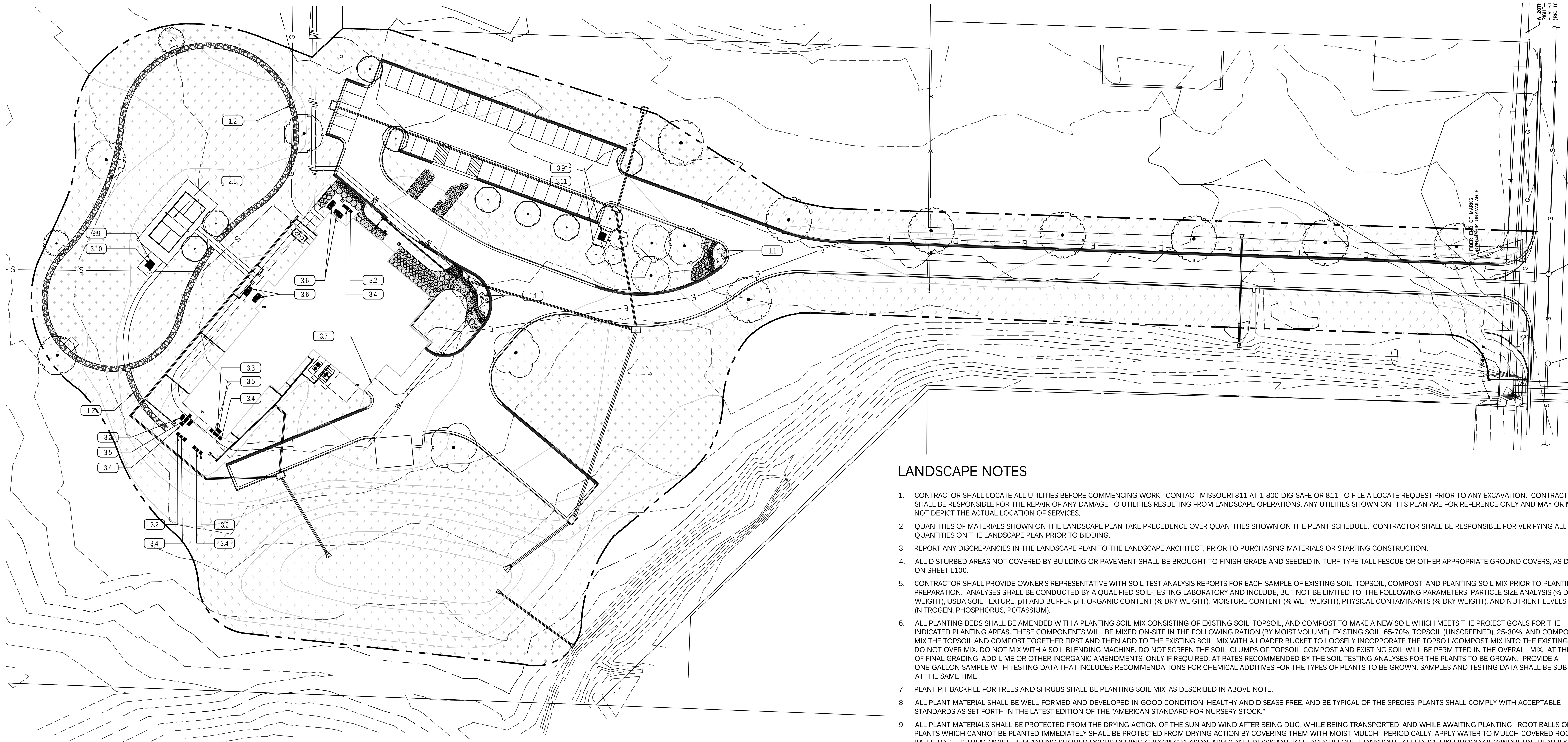
PROJ. NO. C26_2670 DSN: KGK
CFN: 2670TS.DWG DWN: JQN

CHRISTIAN J. CROWDER
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MO # 2015000538

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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/27



1 LANDSCAPE PLAN

SCALE = 1" = 40'

0 40' 80'

GRAPHIC SCALE 40'

NORTH

SITE KEY NOTES

1.0	PAVEMENTS & SURFACING	DETAIL
1.1	LANDSCAPE BOULDERS	6/L121
1.2	GRAVEL PATHWAY	7/L121
2.0	SITE FEATURES	DETAIL
2.1	PICKLEBALL COURT	1-3/L124
3.0	SITE FURNISHINGS	DETAIL
3.1	TONYO LITTER RECEPTACLE	1/L122
3.2	VAYA CHAIR	2/L122
3.3	VAYA BENCH	3/L122
3.4	VAYA END TABLE	4/L122
3.5	VAYA COFFEE TABLE	5/L122
3.6	APEX TABLE	6/L122
3.7	CAPITOL BIKE RACK	1/L123
3.8	TRIO BENCH	2/L123
3.9	TRIO TABLE	3/L123
3.10	SOLERIS SUN SHADE	4/L123
3.11	METAL SMOKER"S RECEPTACLE	5/L123

LANDSCAPE NOTES

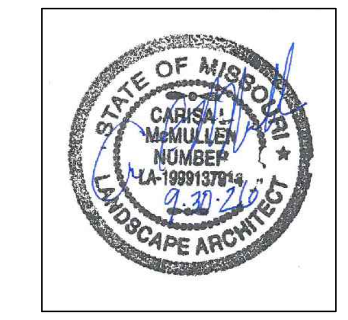
1. CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE COMMENCING WORK. CONTACT MISSOURI 811 AT 1-800-DIG-SAFE OR 811 TO FILE A LOCATE REQUEST PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES RESULTING FROM LANDSCAPE OPERATIONS. ANY UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT DEPICT THE ACTUAL LOCATION OF SERVICES.
2. QUANTITIES OF MATERIALS SHOWN ON THE LANDSCAPE PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON THE LANDSCAPE PLAN PRIOR TO BIDDING.
3. REPORT ANY DISCREPANCIES IN THE LANDSCAPE PLAN TO THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASING MATERIALS OR STARTING CONSTRUCTION.
4. ALL DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL BE BROUGHT TO FINISH GRADE AND SEEDED IN TURF-TYPE TALL FESCUE OR OTHER APPROPRIATE GROUND COVERS, AS DEPICTED ON SHEET L100.
5. CONTRACTOR SHALL PROVIDE OWNER'S REPRESENTATIVE WITH SOIL TEST ANALYSIS REPORTS FOR EACH SAMPLE OF EXISTING SOIL, TOPSOIL, COMPOST, AND PLANTING SOIL MIX PRIOR TO PLANTING PREPARATION. ANALYSES SHALL BE CONDUCTED BY A QUALIFIED SOIL-TESTING LABORATORY AND INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING PARAMETERS: PARTICLE SIZE ANALYSIS (% DRY WEIGHT), USDA SOIL TEXTURE, pH AND BUFFER pH, ORGANIC CONTENT (% DRY WEIGHT), MOISTURE CONTENT (% WET WEIGHT), PHYSICAL CONTAMINANTS (% DRY WEIGHT), AND NUTRIENT LEVELS (NITROGEN, PHOSPHORUS, POTASSIUM).
6. ALL PLANTING BEDS SHALL BE AMENDED WITH A PLANTING SOIL MIX CONSISTING OF EXISTING SOIL, TOPSOIL, AND COMPOST TO MAKE A NEW SOIL WHICH MEETS THE PROJECT GOALS FOR THE INDICATED PLANTING AREAS. THESE COMPONENTS WILL BE MIXED ON-SITE IN THE FOLLOWING RATION (BY MOIST VOLUME): EXISTING SOIL, 65-70%; TOPSOIL (UNSCREENED), 25-30%; AND COMPOST, 5%. MIX THE TOPSOIL AND COMPOST TOGETHER FIRST AND THEN ADD TO THE EXISTING SOIL. MIX WITH A LOADER BUCKET TO LOOSELY INCORPORATE THE TOPSOIL/COMPOST MIX INTO THE EXISTING SOIL. DO NOT OVER MIX. DO NOT MIX WITH A SOIL BLENDING MACHINE. DO NOT SCREEN THE SOIL. CLUMPS OF TOPSOIL, COMPOST AND EXISTING SOIL WILL BE PERMITTED IN THE OVERALL MIX. AT THE TIME OF FINAL GRADING, ADD LIME OR OTHER INORGANIC AMENDMENTS, ONLY IF REQUIRED, AT RATES RECOMMENDED BY THE SOIL TESTING ANALYSES FOR THE PLANTS TO BE GROWN. PROVIDE A ONE-GALLON SAMPLE WITH TESTING DATA THAT INCLUDES RECOMMENDATIONS FOR CHEMICAL ADDITIVES FOR THE TYPES OF PLANTS TO BE GROWN. SAMPLES AND TESTING DATA SHALL BE SUBMITTED AT THE SAME TIME.
7. PLANT PIT BACKFILL FOR TREES AND SHRUBS SHALL BE PLANTING SOIL MIX, AS DESCRIBED IN ABOVE NOTE.
8. ALL PLANT MATERIAL SHALL BE WELL-FORMED AND DEVELOPED IN GOOD CONDITION, HEALTHY AND DISEASE-FREE, AND BE TYPICAL OF THE SPECIES. PLANTS SHALL COMPLY WITH ACCEPTABLE STANDARDS AS SET FORTH IN THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK."
9. ALL PLANT MATERIALS SHALL BE PROTECTED FROM THE DRYING ACTION OF THE SUN AND WIND AFTER BEING DUG, WHILE BEING TRANSPORTED, AND WHILE AWAITING PLANTING. ROOT BALLS OF PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE PROTECTED FROM DRYING ACTION BY COVERING THEM WITH MOIST MULCH. PERIODICALLY, APPLY WATER TO MULCH-COVERED ROOT BALLS TO KEEP THEM MOIST. IF PLANTING SHOULD OCCUR DURING GROWING SEASON, APPLY ANTI-DESSICANT TO LEAVES BEFORE TRANSPORT TO REDUCE LIKELIHOOD OF WINDBURN. REAPPLY ANTI-DESSICANT AFTER PLANTING TO REDUCE TRANSPIRATION.
10. PLANTS DESIGNATED AS CONTAINER GROWN SHALL HAVE BEEN GROWN IN POTS, CANS OR BOXES FOR A MINIMUM OF SIX MONTHS AND A MAXIMUM OF TWO YEARS. THESE PLANTS SHALL BE REMOVED FROM CONTAINERS BEFORE PLANTING. PLANTS THAT APPEAR ROOT-BOUND SHALL BE REJECTED.
11. APPLY A 3" LAYER OF DECORATIVE ROCK MULCH OVER NONWOVEN GEOTEXTILE FABRIC IN ALL PLANTING BEDS AND AROUND ANY TREES OTHERWISE PLACED WITHIN TURF AREAS. IN BOTH CASES, MULCH SHOULD NOT COME IN CONTACT WITH PLANT TRUNKS OR STEMS.
12. ALL PLANTING BEDS MUST BE SEPARATED FROM TURF AREAS WITH STEEL LANDSCAPE EDGING. PROVIDE "BORDER KING STEEL LANDSCAPE EDGING" MANUFACTURED BY BORDER CONCEPTS, INC., OR APPROVED EQUAL. REFER TO SHEET L121, DETAIL #4.
13. CONTRACTOR SHALL USE AN APPROVED TREE GUYING SYSTEM. TREE GUYING TO BE FLAT WOVEN POLYPROPYLENE MATERIAL, 3/4-INCH-WIDE, WITH A TENSILE STRENGTH OF 900 LBS. HOSE AND WIRE WILL NOT BE ACCEPTED. SUBJECT TO COMPLIANCE WITH THESE REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS, OR APPROVED EQUAL:

   A."ARBORTIE GREEN" MANUFACTURED BY DEEP ROOT PARTNERS, LP

   B."LEONARD TREE TIE WEBBING GREEN" MANUFACTURED BY A.M. LEONARD, INC.

   C."TREE-GUY TREE TIE WEBBING 3/4" OLIVE GREEN" MANUFACTURED BY U.S. RIGGING SUPPLY
14. TURF SEED SHALL COMPLY WITH U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND BE EQUAL IN QUALITY TO STANDARDS FOR CERTIFIED SEED. SEED SHALL BE A TURF-TYPE FESCUE BLEND CONSISTING OF 85% TURF-TYPE TALL FESCUE, 10% KENTUCKY BLUEGRASS, AND 5% ANNUAL RYEGRASS. ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW OR HYDROMULCH AT TIME OF INSTALLATION UNTIL SEED HAS ESTABLISHED.
15. CONTRACTOR SHALL PLACE BOULDERS IN THE APPROXIMATE LOCATIONS SHOWN ON THE LANDSCAPE DRAWINGS. BOULDERS MAY INCLUDE NATIVE MATERIAL EXCAVATED AND STOCKPILED ON SITE. DIMENSIONS FOR SUCH BOULDERS SHALL CONFORM TO BETWEEN 2 AND 3 FEET IN HEIGHT, 2 AND 3 FEET IN DEPTH, AND 2 AND 3 FEET IN LENGTH. BOULDERS PROCURED OFF SITE SHALL BE BOULDERS OF SIMILAR DIMENSIONS.
16. THE CONTRACTOR SHALL PROVIDE ALL WATER, WATERING DEVICES AND LABOR NEEDED TO IRRIGATE PLANT MATERIALS UNTIL PROVISIONAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL SUPPLY ENOUGH WATER TO MAINTAIN THE PLANT'S HEALTHY CONDITION.
17. REMOVE ALL RUBBISH, EQUIPMENT, AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES. REMOVE SOIL OR DIRT THAT ACCUMULATES DUE TO PLANTING OPERATIONS EACH DAY.
18. AT THE COMPLETION OF PLANTING OPERATIONS ALL PLANTS SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL REPLACE IMMEDIATELY ANY PLANTS NOT IN HEALTHY AND VIGOROUS CONDITION AT THAT TIME AT NO EXPENSE TO THE OWNER. ANY PLANT NOT IN HEALTHY CONDITION AFTER ONE FULL YEAR FROM THE DATE OF FINAL ACCEPTANCE SHALL BE REPLACED AS PER THE ORIGINAL SPECIFICATIONS, FREE OF CHARGE TO THE OWNER.
19. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT AT ANY TIME OR PLACE PRIOR TO FINAL ACCEPTANCE OF WORK, ANY AND ALL PLANTS WHICH, IN THEIR OPINION, FAIL TO MEET THESE SPECIFICATION REQUIREMENTS.
20. CONTRACTOR SHALL GUARANTEE TREES, SHRUBS, PERENNIALS AND TURF FOR ONE CALENDAR YEAR FOLLOWING PROVISIONAL ACCEPTANCE OF THE OVERALL PROJECT. DURING THE GUARANTEE PERIOD, PLANTS THAT DIE DUE TO NATURAL CAUSES OR THAT ARE UNHEALTHY OR UNSIGHTLY IN CONDITION, SHALL BE REPLACED BY THE CONTRACTOR. PLANTS USED FOR THE REPLACEMENT SHALL BE OF THE SAME VARIETY AND SIZE AS ORIGINALLY SPECIFIED IN THE PLANT SCHEDULE. REPLACEMENTS SHALL BE MADE WITHIN ONE WEEK OF REQUEST PENDING FAVORABLE SEASONAL PLANTING CONDITIONS. GUARANTEE WILL NOT BE ENFORCED SHOULD THE PLANT MATERIAL DIE DUE TO VANDALISM, OVER OR UNDER WATERING BY THE OWNER, IMPROPER MAINTENANCE PROCEDURES CARRIED OUT BY THE OWNER INVOLVING LAWN MOWER DAMAGE, OVER FERTILIZATION, ACTS NOT RELATED TO CONTRACTUAL RESPONSIBILITIES OF CONTRACTOR OR SIMILAR CIRCUMSTANCES BEYOND THE CONTROL OF THE CONTRACTOR.

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MIKE KEHOE, GOVERNOR



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

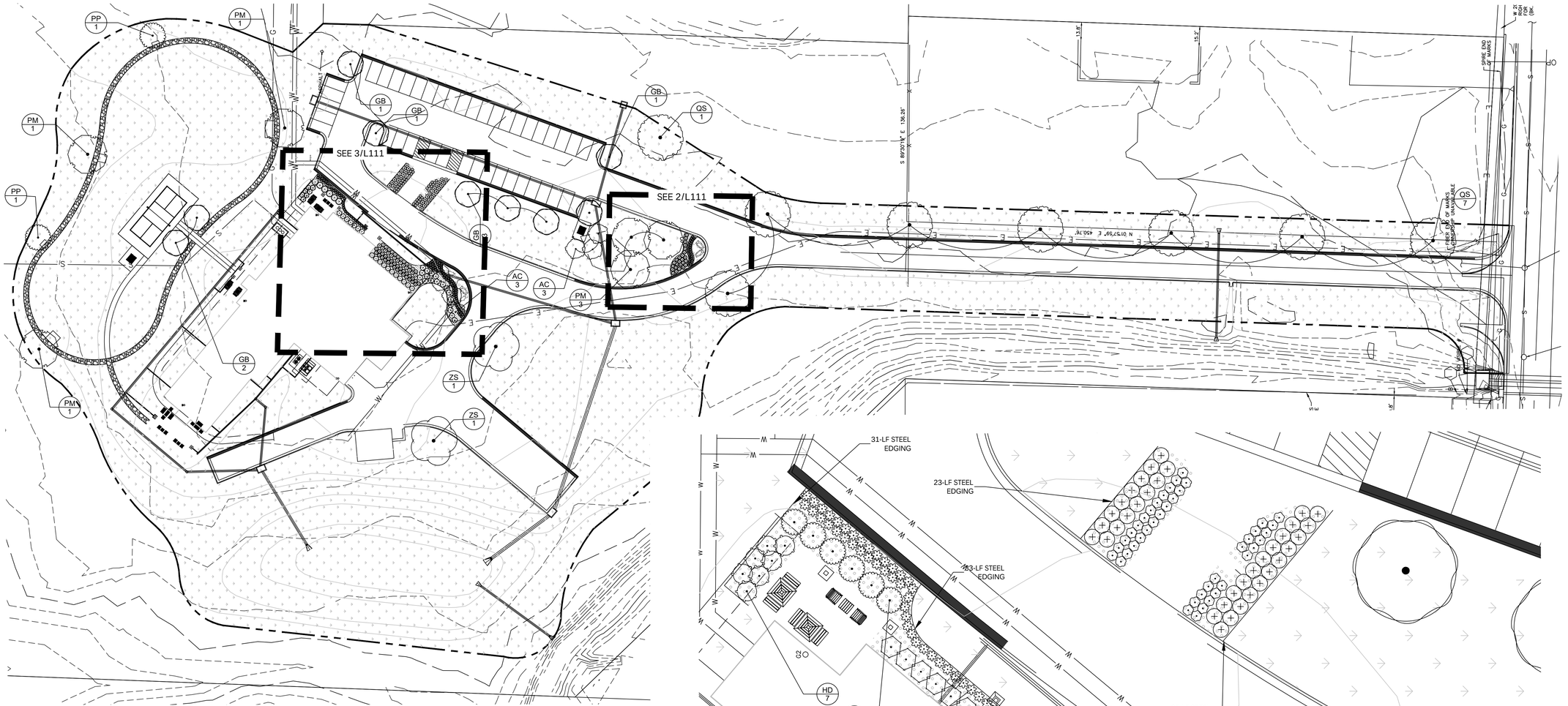
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DRAWN BY: KNS
CHECKED BY: Checker
DESIGNED BY: ACIB

SHEET TITLE:
LANDSCAPE SITE PLAN

SHEET NUMBER:
L-101

September 30, 2026

2026 ACI/BOLA



1 TREE PLANTING PLAN
SCALE = 1" = 40'

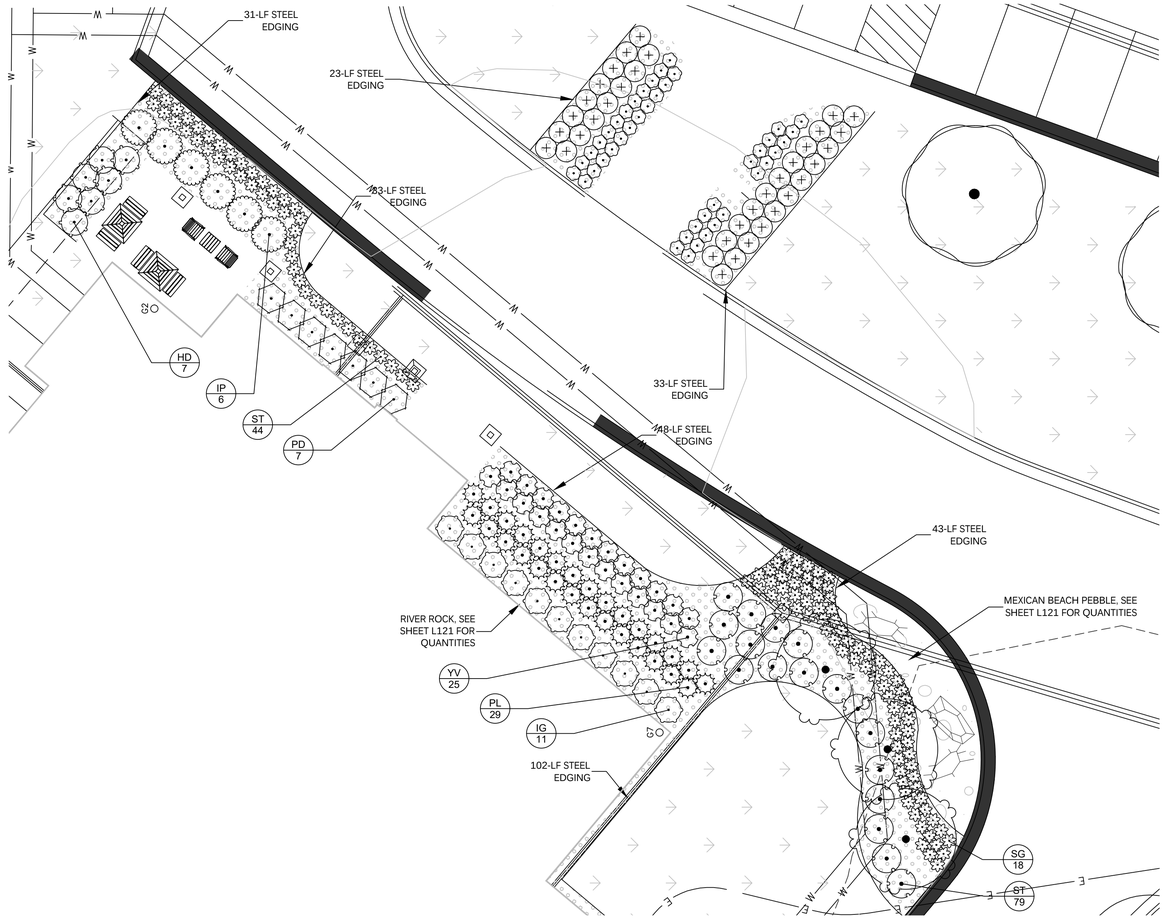
0 40' 80'
GRAPHIC SCALE 40'

NORTH

2 SHRUB PLANTING PLAN SOUTH
SCALE = 1" = 10'

0 10' 20'
GRAPHIC SCALE 10'

NORTH



3 SHRUB PLANTING PLAN NORTH
SCALE = 1" = 10'

0 10' 20'
GRAPHIC SCALE 10'

NORTH

STATE OF MISSOURI
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CHECKED BY: Checker
DESIGNED BY: ACIB

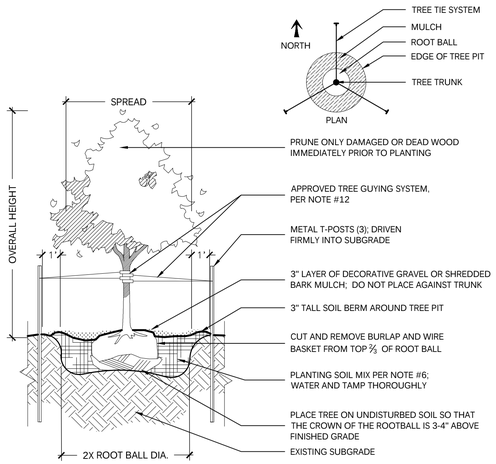
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LANDSCAPE ENLARGEMENT PLAN

SHEET NUMBER:
L-111

39 OF 133

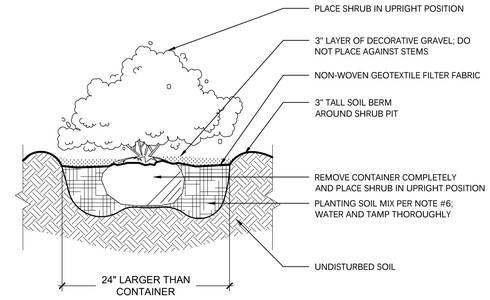
September 30, 2026

2026 ACI/BOLA



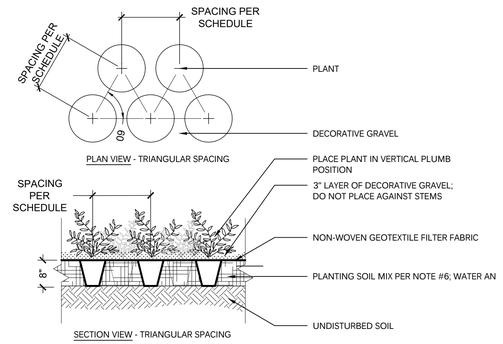
1 DECIDUOUS TREE PLANTING

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



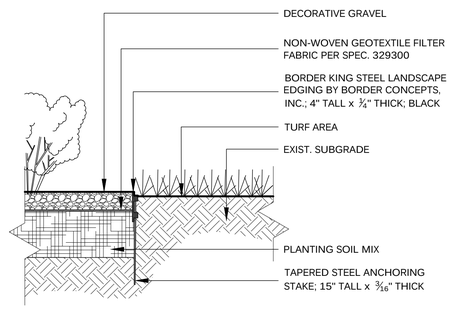
2 SHRUB PLANTING

SCALE = 1/2" = 1'-0"



3 PERENNIAL PLANTING

SCALE = 1/2" = 1'-0"



4 STEEL LANDSCAPE EDGING

SCALE = 1" = 1'-0"

5 AGGREGATE MOW STRIP

SCALE = 1" = 1'-0"

6 GRANITE BOULDER

SCALE = 1" = 1'-0"

7 GRAVEL PATHWAY

SCALE = 1" = 1'-0"

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL
TREES					
	AC	6	CUMULUS ALLEGHENY SERVICEBERRY / AMELANCHIER LAEVIS 'CUMULUS'	B & B	2.5"CAL
	GB	9	MAIDENHAIR TREE / GINKGO BILOBA	B & B	2.5"CAL
	PP	2	PERSIAN PARROTIA / PARROTIA PERSICA	B & B	1.5"CAL
	PM	6	LONDON PLANE TREE MULTI-TRUNK / PLATANUS X ACERIFOLIA	B & B	2.5"CAL
	QS	8	SHUMARD OAK / QUERCUS SHUMARDII	B & B	2.5"CAL
	ZS	2	JAPANESE ZELKOVA / ZELKOVA SERRATA	B & B	2.5"CAL

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT
DECIDUOUS SHRUBS				
	HD	7	LITTLE LIME PUNCH HYDRANGEA / HYDRANGEA PANICULATA 'SMNHPH'	3 GAL
	PL	54	LITTLE SPIRE RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE'	1 GAL
	PD	7	LITTLE DEVIL DWARF NINEBARK / PHYSOCARPUS OPULIFOLIUS 'DONNA MAY'	3 GAL
	SG	18	GOLDMOUND JAPANESE SPIREA / SPIRAEA JAPONICA 'GOLDMOUND'	3 GAL
EVERGREEN SHRUBS				
	IG	11	INKBERRY HOLLY / ILEX GLABRA	3 GAL
	IP	6	BLUE PRINCE HOLLY / ILEX X MESERVEAE 'BLUE PRINCE'	3 GAL

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT
GRASSES & PERENNIALS				
	AM	43	MOONSHINE YARROW / ACHILLEA X 'MOONSHINE'	1 GAL
	PS	36	SHENANDOAH SWITCH GRASS / PANICUM VIRGATUM 'SHENANDOAH'	1 GAL
	ST	153	TARA PRAIRIE DROPSEED / SPOROBOLUS HETEROLEPIS 'TARA'	1 GAL
	YV	25	VARIEGATED ADAMS'S NEEDLE / YUCCA FILAMENTOSA 'VARIEGATA'	1 GAL

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT
GROUND COVERS				
	TM2	167,717 SF	TALL FESCUE SEED BLEND / TURF HYDROSEED	HYDROSEED
LANDSCAPE MATERIALS				
	BR	2,810 SF	SALT AND PEPPER RIVER ROCK 1" - 3" / DECORATIVE GRAVEL	ROCK
	BR2	332 SF	MEXICAN BEACH 1" - 3" / DECORATIVE GRAVEL	ROCK
	GB	8 EA	GRANITE BOULDERS	ROCK

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI CARISA L. HAKULEN NUMBER LA-1999125714 9-30-26 LANDSCAPE ARCHITECT

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OFFICE OF ADMINISTRATION
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2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

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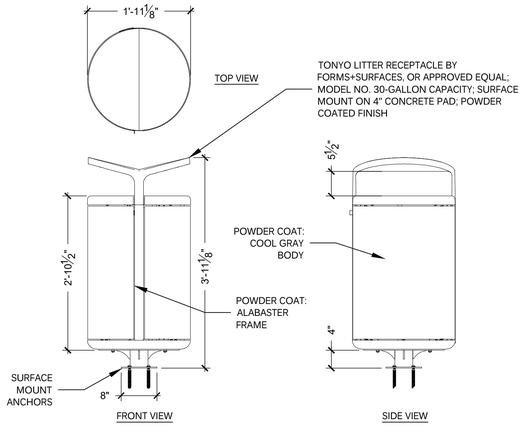
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CHECKED BY: Checker
DESIGNED BY: ACIB

SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:
L-121

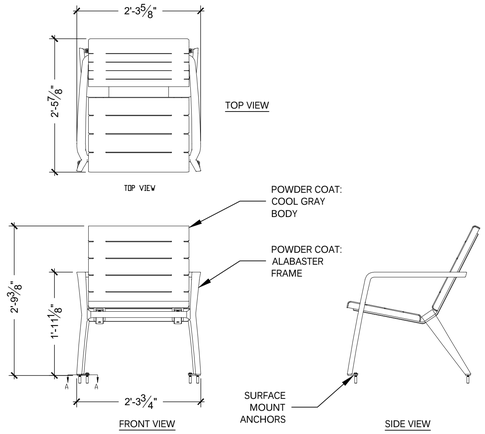
September 30, 2026

2026 ACI/BOLA



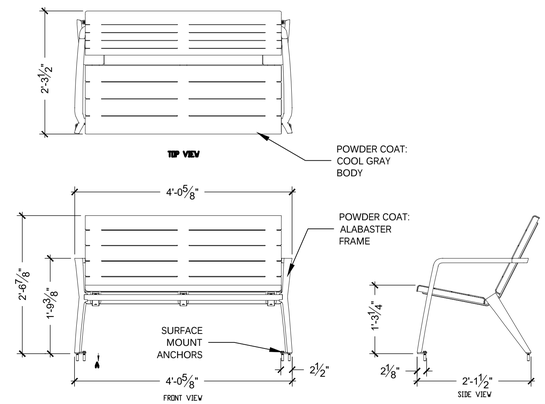
NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

1 TONYO LITTER & RECYCLING RECEPTICLE
SCALE = 1" = 1'-0"



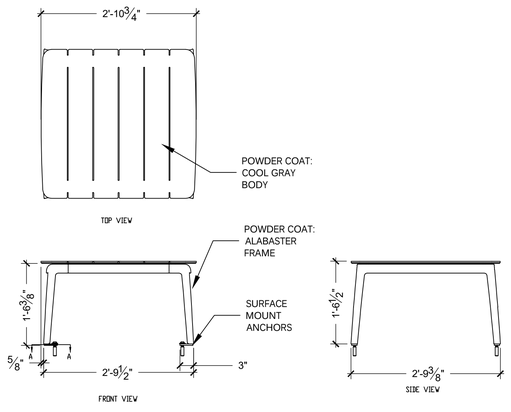
NOTES:
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2 VAYA CHAIR
SCALE = 1" = 1'-0"



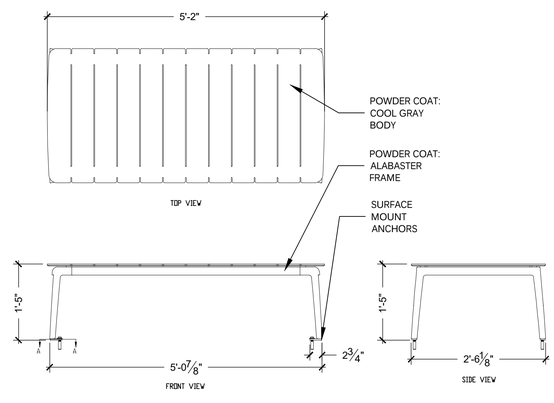
NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
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3 VAYA BENCH
SCALE = 1" = 1'-0"



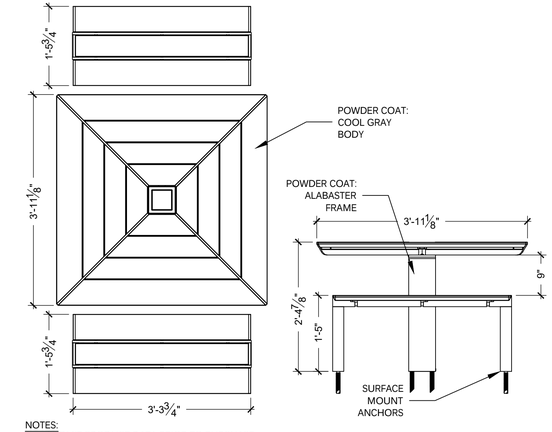
NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

4 VAYA SIDE TABLE
SCALE = 1" = 1'-0"



NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

5 VAYA COFFEE TABLE
SCALE = 1" = 1'-0"



NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

6 APEX TABLE ENSEMBLE
SCALE = 1" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CARISA MAUREEN NUMBER LA-2009012714
9-30-26
LANDSCAPE ARCHITECT

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DESIGNED BY: ACIB

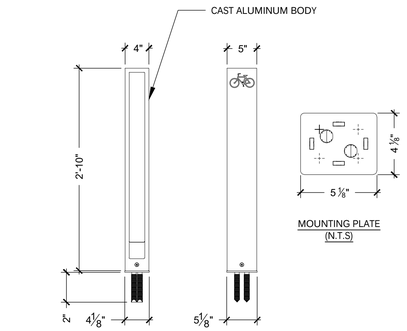
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LANDSCAPE DETAILS

SHEET NUMBER:
L-122

41 OF 133

September 30, 2026

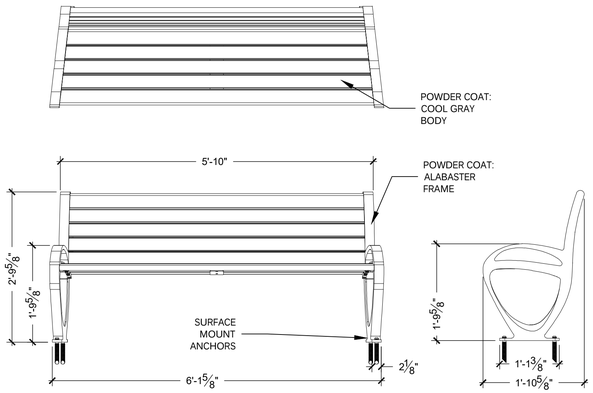
2026 ACI/BOLA



MOUNTING PLATE
(N.T.S)

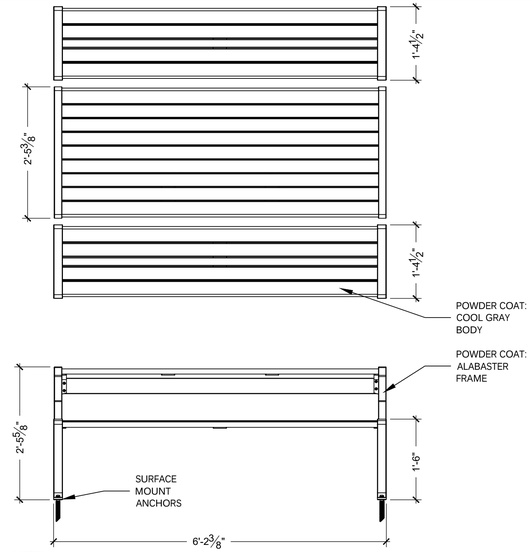
NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL PER MANUFACTURERS INSTRUCTIONS
3. INSTALLATION LOCATION TO TBD BY OWNER

1 CAPITOL BIKE RACK
SCALE = 1" = 1'-0"



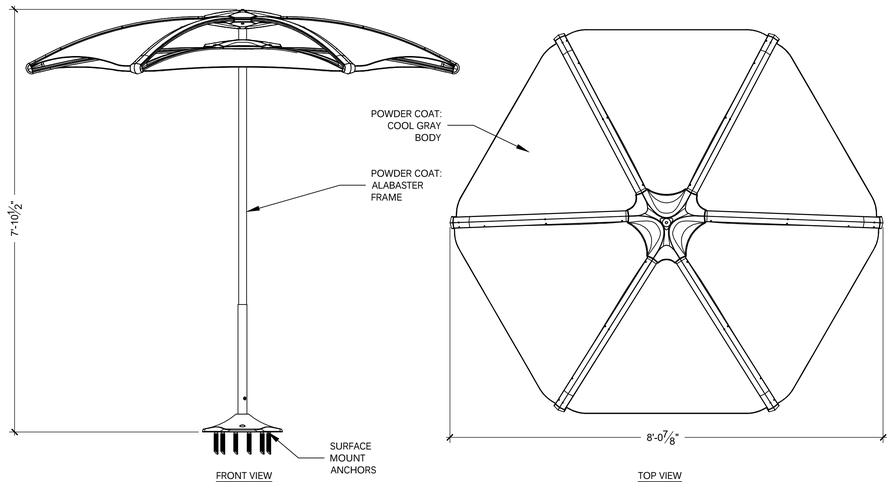
NOTES:
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2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

2 TRIO BENCH
SCALE = 1" = 1'-0"



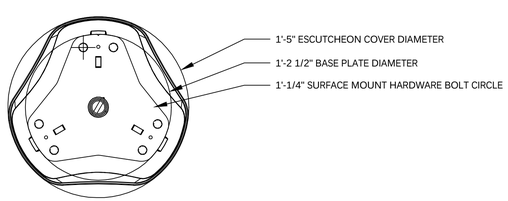
NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

3 TRIO TABLE ENSEMBLE
SCALE = 1" = 1'-0"



FRONT VIEW

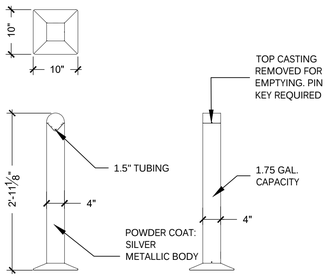
TOP VIEW



BASE PLATE DETAIL

NOTES:
1. SUBMIT PRODUCT DATA PRIOR TO PURCHASE
2. INSTALL IN LOCATIONS SHOWN ON PLANS PER MANUFACTURERS INSTRUCTIONS

4 SOLERIS SUNSHADE
SCALE = 1" = 1'-0"



5 METAL SMOKER'S RECEPTACLE
SCALE = 3/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

CARISA LAKULLEN
NUMBER LA-1999107014
9-30-24
STATE OF MISSOURI
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: Checker
DESIGNED BY: ACIB

SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:
L-123

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September 30, 2026

2026 ACI/BOLA

PICKLE BALL POSTS

MFR: WILSON SPORTING GOODS
OR AS APPROVED EQUAL
MODEL NO.: WILSON HEAVY DUTY
54 INCH (MODEL #3441W)
COLOR: BLACK
CONTACT: www.pickleballcentral.com

PICKLE BALL NET

MFR: WILSON SPORTING GOODS
OR AS APPROVED EQUAL
MODEL NO.: WILSON 36" H X 21'9" W
(MODEL #501-727W)
COLOR: WHITE
CONTACT: www.pickballcentral.com

NOTES:

1. THE SLAB SHALL BE DESIGNED WITH A MINIMUM CONCRETE THICKNESS OF FIVE INCHES.
2. AFTER THE SUB-GRADE IS FINISHED. THE CONTRACTOR SHALL INSTALL A 4" - 6" AB3 OR TYPE 5 GRAVEL BASE WHICH HELPS IN PREVENTING GROUND WATER TO MOVE UP TO THE CONCRETE. ADD A VAPOR BARRIER CONSISTING OF 2 LAYERS OF 6-MIL POLYETHYLENE SHEET, TAPED TOGETHER, TO COVER THE EDGES OF THE SLAB.
3. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS, DETAILS, AND SPECIFICATION REQUIREMENTS FOR THE POST-TENSIONED CONCRETE SLAB TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
4. THE CONCRETE 28 DAY COMPRESSIVE STRENGTH MIX DESIGN SHALL BE 4000 PSI AFTER ADDITION OF ADMIXTURES. PRIOR TO POURING THE CONCRETE, ALL FENCE POSTS, NET POSTS OR PVC SLEEVES SHOULD BE INSTALLED AND WRAPPED WITH MIN. 1" FOAM MATERIAL TO ALLOW FOR SHRINKAGE AND COMPRESSION OF CONCRETE SLAB.
5. THE CONTRACTOR SHALL FURNISH A CONCRETE MIX DESIGN TO THE OWNER FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. THE CONCRETE MIX DESIGN SHALL NOT INCLUDE ANY LIQUID CURING AGENTS THAT ARE INCOMPATIBLE WITH ACRYLIC COLOR. THE MANUFACTURER OF SYNTHETIC SURFACING SYSTEM WILL HAVE SPECS, REQUIREMENTS AND TEST METHODS TO DETERMINE WHEN THE SLAB IS READY TO BE SURFACED.
6. THE SLAB SHOULD CONTINUE TO CURE AFTER TENSIONING UNTIL IT REACHED THE COMPRESSIVE STRENGTH SPECIFIED BY THE PROJECT ENGINEER, A COMPRESSIVE STRENGTH OF MINIMUM 4000 PSI.
7. CONTRACTOR TO SUBMIT COMPLETED STAMPED, ENGINEERED SHOP DRAWINGS FOR APPROVAL BY OWNER.

PICKLEBALL COATING NOTES:

THE CONCRETE SURFACE SHALL BE CLEAN PRIOR TO APPLYING COLOR COAT. IT SHALL BE DRY AND FREE OF DUST. DIRT DURING THE APPLICATION OF THE PAVEMENT SURFACE SYSTEM.

TO CORRECT MINOR SURFACE IRREGULARITIES, ACID ETCH, ADD PRIMER, AND APPLY A FILLER COAT. CHECK THE FILLER COAT COMPATIBILITY WITH THE COLOR SURFACE SUPPLIER.

APPLY AT LEAST TWO COATS OF ACRYLIC RESURFACER AND AT LEAST 2 COATS OF ACRYLIC COLOR TO THE CONCRETE BASE.

PICKLEBALL COURT MARKING NOTES:

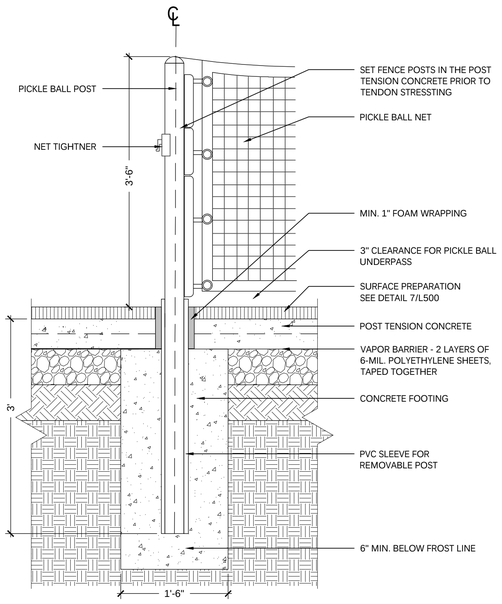
ALL WHITE LINE STRIPING SHALL BE 2" WIDE EXCEPT FOR BASE LINES WHICH SHALL BE 4" WIDE.

DIMENSIONS GIVEN ARE MEASURED TO THE OUTSIDE OF THE LINE EXCEPT FOR THE CENTER SERVICE LINE AND THE CENTER MARK, BOTH OF WHICH SHALL BE ON THE CENTERLINE OF THE COURT.

PLAYING LINES SHALL NOT VARY MORE THAN 1/4" FROM THE EXACT MEASUREMENTS.

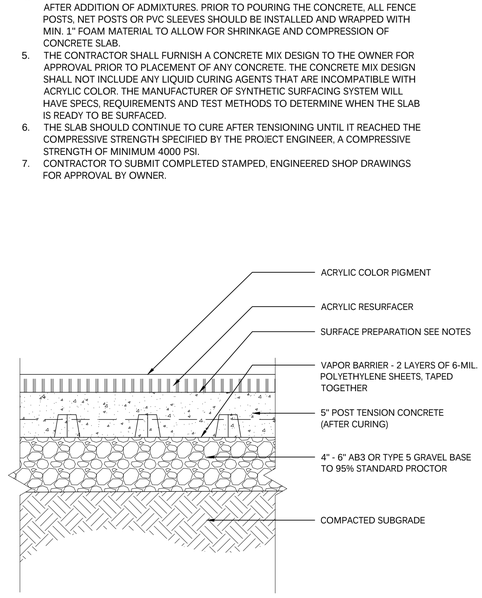
PROJECT COMPLETION:

UPON COMPLETION OF WORK THE CONTRACTOR SHALL CAREFULLY CLEAN-UP AND REMOVE ALL LEFT OVER MATERIALS SO AS TO RETURN THE WORK SITE TO THE CONDITION IT WAS PRIOR TO CONSTRUCTION ACTIVITIES.



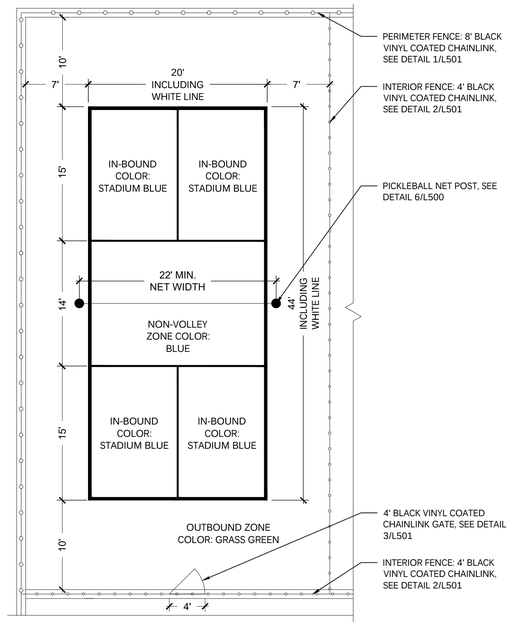
1 PICKLEBALL NET POST

SCALE = 1" = 1'-0"



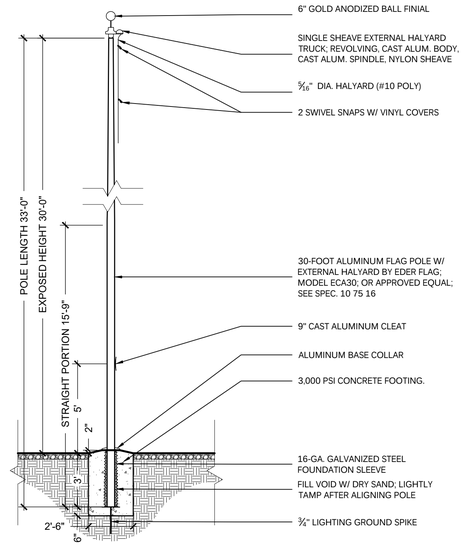
2 SURFACE PREPARATION

SCALE = 1 1/2" = 1'-0"



3 PLAN: PICKLEBALL COURT MARKINGS

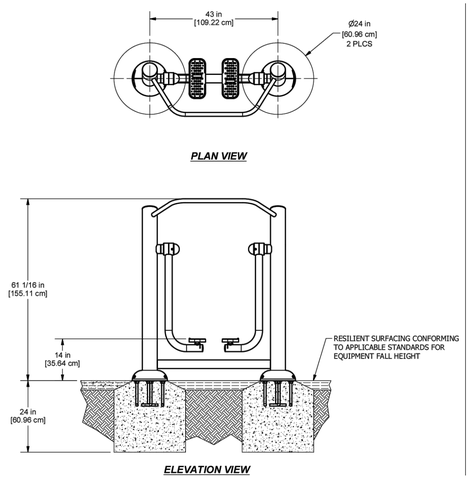
SCALE = 1/8" = 1'-0"



NOTES:
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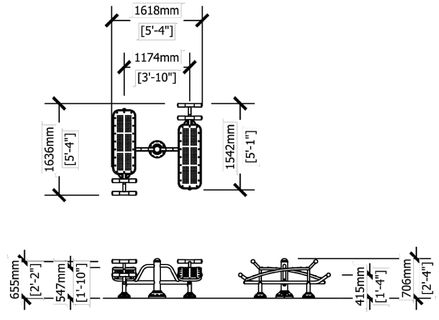
4 30' GROUND SET FLAGPOLE

SCALE = 1/8" = 1'-0"



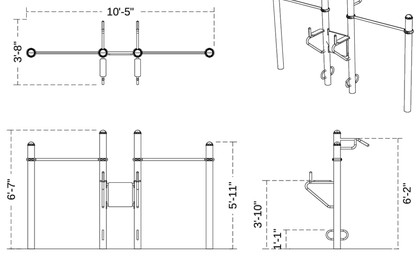
5 CARDIO WALKER

SCALE = 1/2" = 1'-0"



6 DOUBLE STATION SIT UP BENCH

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



7 PULL UP AND DIP STATION

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

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
CARISA MAUULEN
NUMBER LA-1999107814
9-30-26
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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT #	C2512-01
SITE #	7033
ASSET #	9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: Checker
DESIGNED BY: ACIB

SHEET TITLE:
LANDSCAPE DETAILS

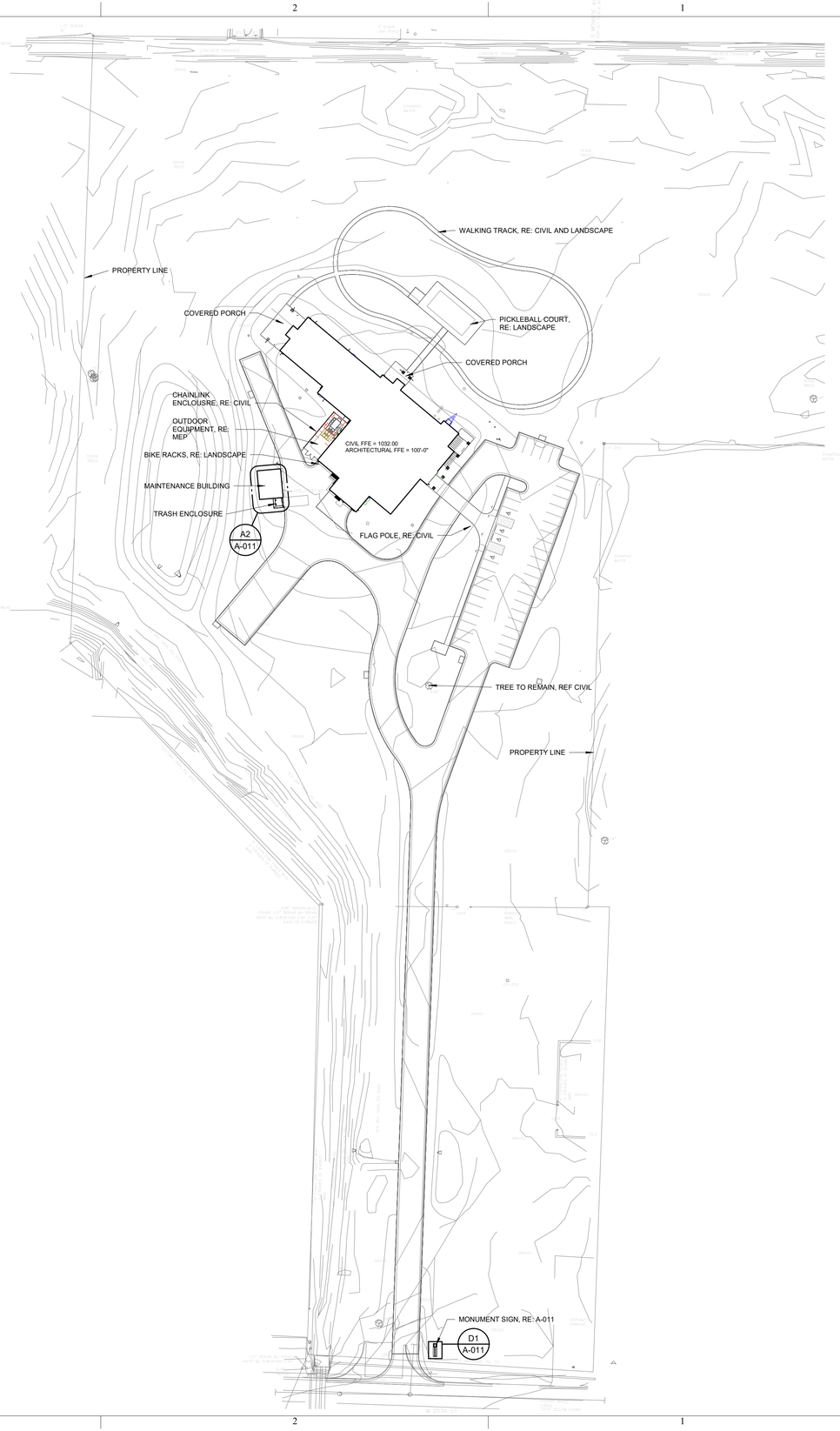
SHEET NUMBER:
L-124

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September 30, 2026

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A3 ARCHITECTURAL SITE PLAN
1" = 60'-0"

NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
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CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

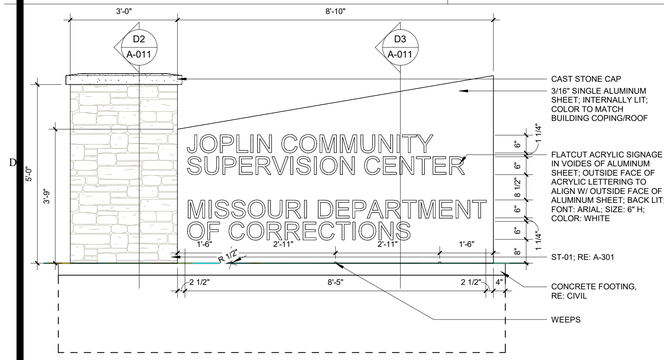
SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NUMBER:
A-001

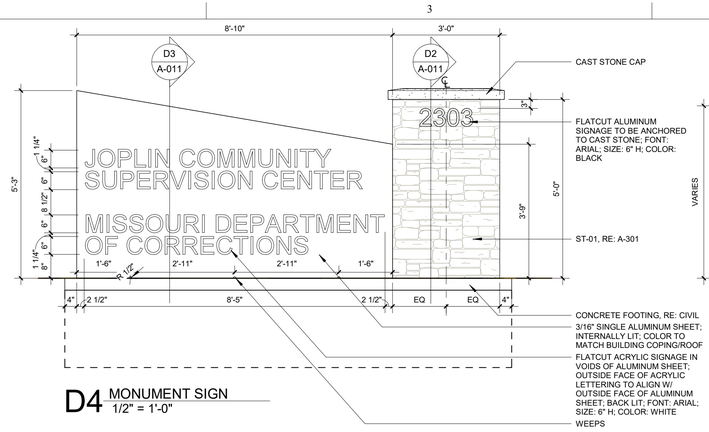
September 30, 2026

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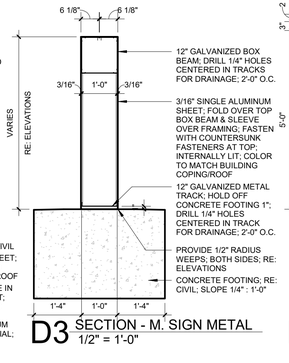
Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt



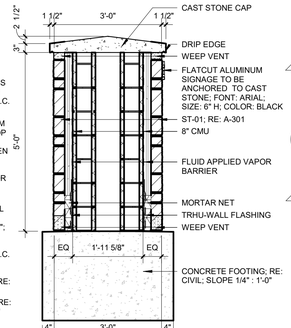
D5 MONUMENT SIGN ELEVATION
1/2" = 1'-0"



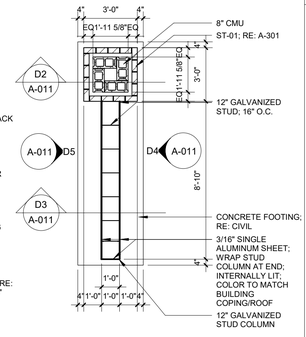
D4 MONUMENT SIGN
1/2" = 1'-0"



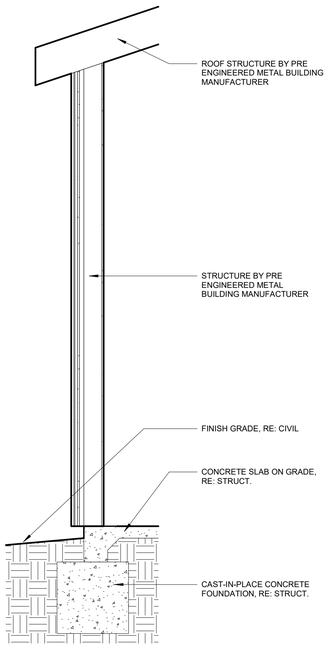
D3 SECTION - M. SIGN METAL
1/2" = 1'-0"



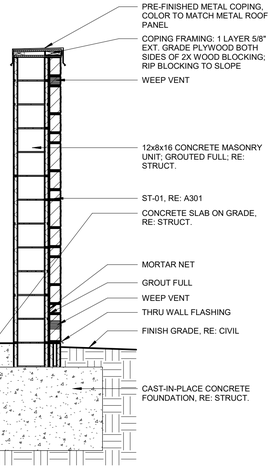
D2 SECTION - M. SIGN STONE
1/2" = 1'-0"



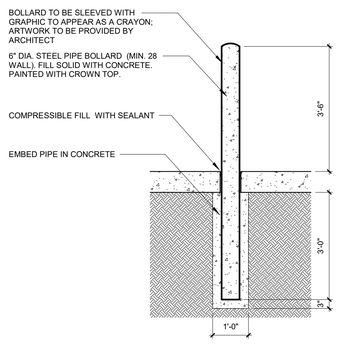
D1 ENLARGED PLAN - MONUMENT SIGN
1/4" = 1'-0"



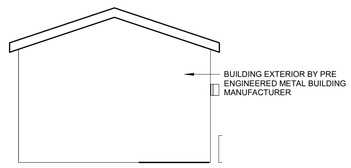
C5 WALL SECTION - MAINTENANCE SHED
1/2" = 1'-0"



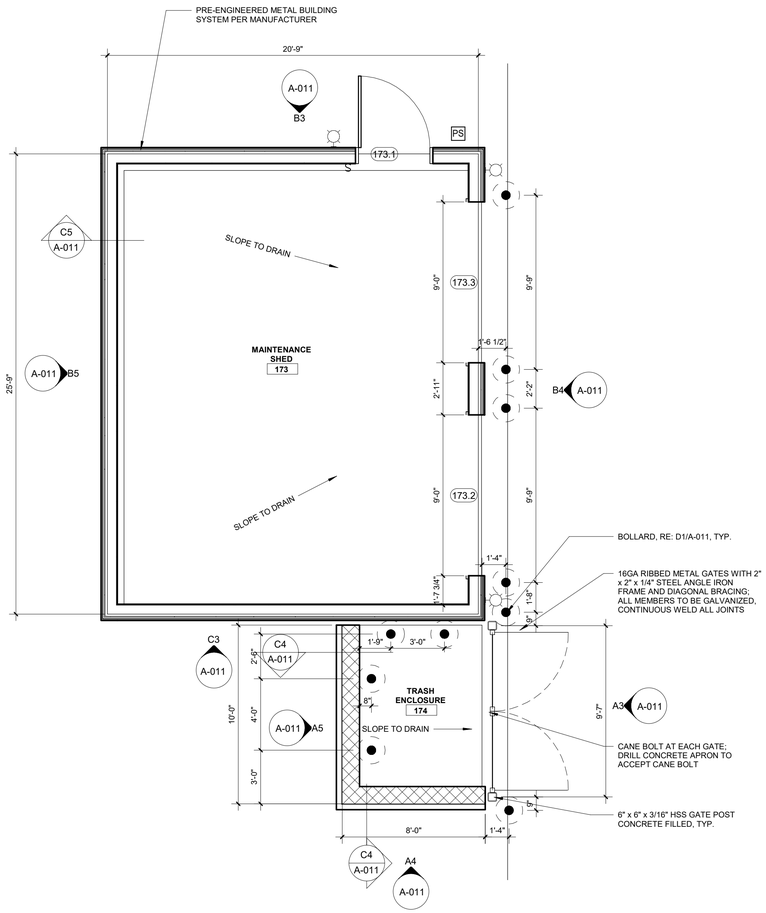
C4 WALL SECTION - TRASH ENCLOSURE
1/2" = 1'-0"



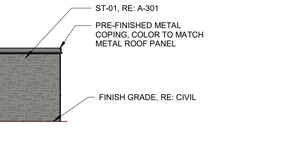
C2 SECTION DETAIL - PIPE BOLLARD
1/2" = 1'-0"



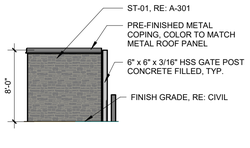
C3 SOUTH ELEVATION - MAINTENANCE SHED
1/8" = 1'-0"



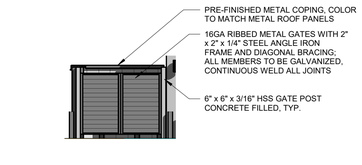
A2 ENLARGED PLAN - MAINTENANCE BUILDING & TRASH ENCLOSURE
1/4" = 1'-0"



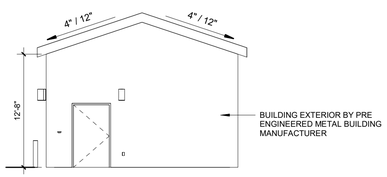
A5 WEST ELEVATION - TRASH ENCLOSURE
1/8" = 1'-0"



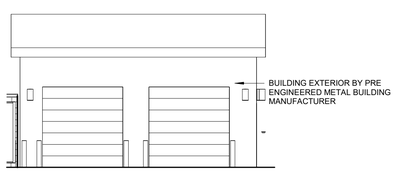
A4 SOUTH ELEVATION - TRASH ENCLOSURE
1/8" = 1'-0"



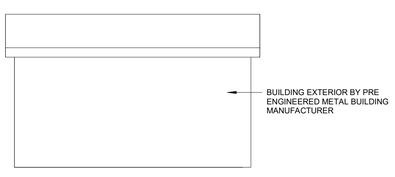
A3 EAST ELEVATION - TRASH ENCLOSURE
1/8" = 1'-0"



B3 NORTH ELEVATION - MAINTENANCE SHED
1/8" = 1'-0"



B4 EAST ELEVATION - MAINTENANCE SHED
1/8" = 1'-0"



B5 WEST ELEVATION - MAINTENANCE SHED
1/8" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
ARCHITECTURAL SITE PLAN DETAILS

SHEET NUMBER:
A-011

45 OF 133

September 30, 2026

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GENERAL PLAN NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
4. IF MATERIAL SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER SHALL COORDINATE WITH CONTRACTOR ON THE REMOVAL OF SUCH ITEMS. WORK MAY PROCEED AFTER HAZARDOUS MATERIAL HAS BEEN REMOVED.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
6. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
7. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
8. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
9. DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION
10. CONDUCT ALL OPERATIONS IN A SAFE WORKING MANNER TO PREVENT DAMAGE OR INJURY TO ADJACENT SPACES, BUILDING, STRUCTURE, OTHER FACILITIES, AND PERSONS.
11. REFER TO GENERAL NOTES, LEGENDS & SYMBOLS SHEET FOR ADDITIONAL GENERAL NOTES AS APPLICABLE.
12. SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
13. SEE DOOR SCHEDULE FOR DOOR SPECIFICATIONS.

FLOOR PLAN LEGEND

- NEW WALL
- EXPANSION JOINT
- DOOR No. (101)
- NEW DOOR

KEYNOTES - FLOOR PLAN

NUMBER	COMMENTS
1	GLASS OPERABLE PARTITION. PROVIDE ALL SUPPORTING STRUCTURE PER MANUFACTURER'S SPECIFICATIONS.
2	REFERENCE THIS RESIDENT ROOM FOR TYPICAL LAYOUT UNLESS NOTED OTHERWISE.
3	REFERENCE THIS INDIVIDUAL TOILET ROOM FOR TYPICAL LAYOUT UNLESS NOTED OTHERWISE.
4	REFERENCE THIS SHARED RESTROOM FOR TYPICAL LAYOUT UNLESS NOTED OTHERWISE.
5	HIGH IMPACT GYPSUM UP TO 10'-0" AFF IN THIS AREA
6	30"X30" ACCESS PANEL, RE: SPECS
7	ROOF ACCESS LADDER, RE: SPECS
8	HOT-DIPPED GALVANIZED STEEL CHAIN LINK FABRIC AND ROUND POSTS, BLACK. FENCE TO BE 6' TALL AND SURFACED MOUNTED USING FLOOR FLANGES. PROVIDE 4'-0" X 6'-0" SWING MAN GATE.
9	

A2 OVERALL FLOOR PLAN
1/8" = 1'-0"

TRUE NORTH / PLAN NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

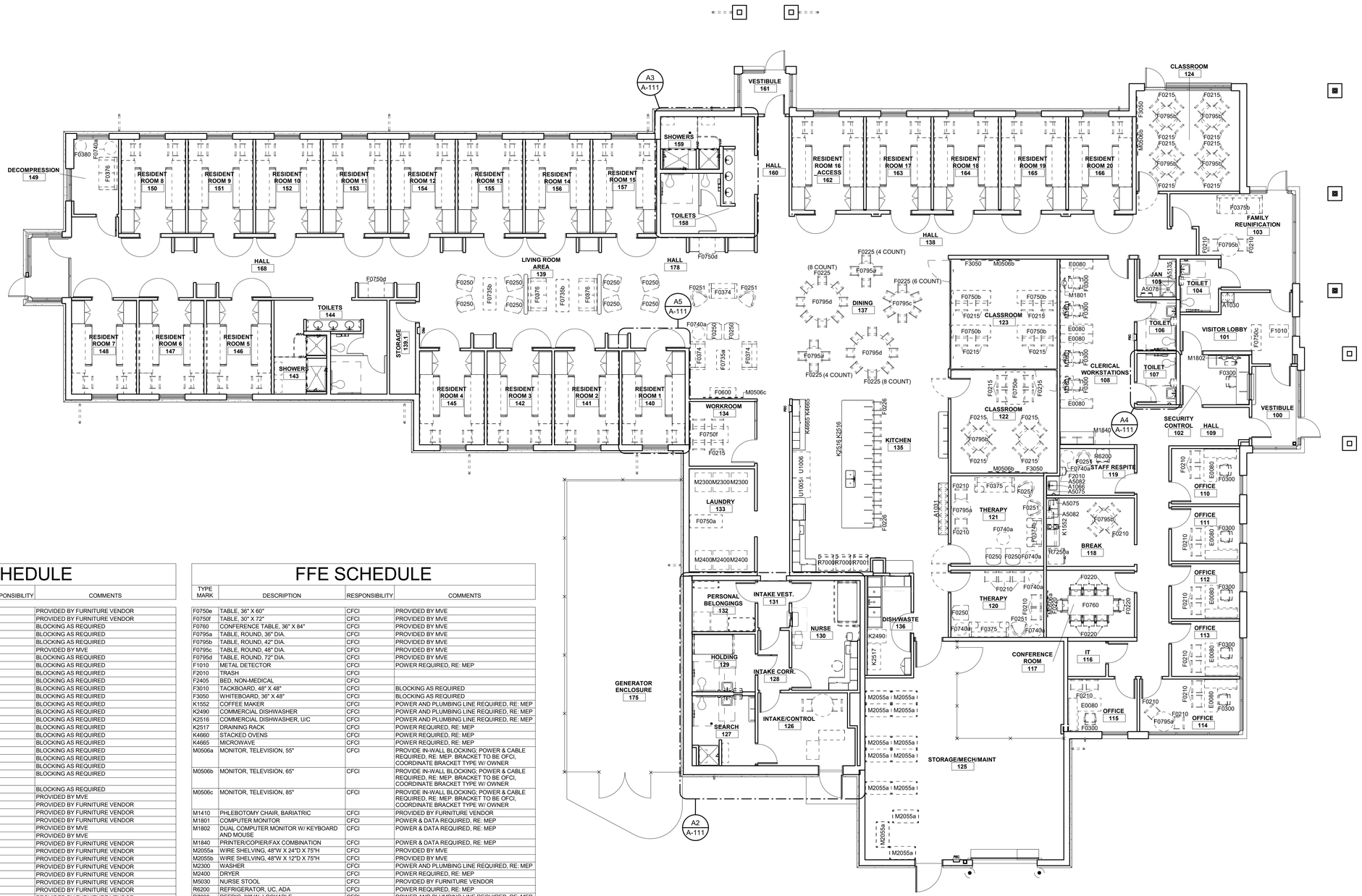
SHEET TITLE:
OVERALL FIRST FLOOR PLAN

SHEET NUMBER:
A-101

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September 30, 2026

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FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
A1030	LOCKER, 3 TIER, OVER/UNDER	CFCI	PROVIDED BY FURNITURE VENDOR
A1031	LOCKER, 5 TIER, OVER/UNDER	CFCI	PROVIDED BY FURNITURE VENDOR
A1066	MIRROR, FRAMELESS, 18" X 36" ADA	CFCI	BLOCKING AS REQUIRED
A1066a	MIRROR, FRAMELESS, 24" X 60"	CFCI	BLOCKING AS REQUIRED
A1066c	MIRROR, FRAMELESS, 36" X 96"	CFCI	BLOCKING AS REQUIRED
A5020	METAL BENCH, 36"W X 12"D X 18"H	CFCI	PROVIDED BY MVE
A5075	SOAP	CFCI	BLOCKING AS REQUIRED
A5078	CLEANING SOLUTION DISPENSING SYSTEM	CFCI	BLOCKING AS REQUIRED
A5080	PAPER TOWEL, SEMI-RECESSED	CFCI	BLOCKING AS REQUIRED
A5081	PAPER TOWEL, BEHAVIORAL HEALTH	CFCI	BLOCKING AS REQUIRED
A5082	PAPER TOWEL	CFCI	BLOCKING AS REQUIRED
A5090	SANITARY NAPKIN DISPOSAL	CFCI	BLOCKING AS REQUIRED
A5109a	GRAB BAR, HORIZONTAL, 36"	CFCI	BLOCKING AS REQUIRED
A5109b	GRAB BAR, HORIZONTAL, 42"	CFCI	BLOCKING AS REQUIRED
A5109c	GRAB BAR, VERTICAL, 18"	CFCI	BLOCKING AS REQUIRED
A5109d	ANTI-LIGATURE GRAB BAR, HORIZONTAL, 36"	CFCI	BLOCKING AS REQUIRED
A5109e	ANTI-LIGATURE GRAB BAR, HORIZONTAL, 42"	CFCI	BLOCKING AS REQUIRED
A5109f	ANTI-LIGATURE GRAB BAR, VERTICAL, 18"	CFCI	BLOCKING AS REQUIRED
A5109g	GRAB BAR, HORIZONTAL, 30"	CFCI	BLOCKING AS REQUIRED
A5109h	GRAB BAR, HORIZONTAL 42"	CFCI	BLOCKING AS REQUIRED
A5135	UTILITY SHELF	CFCI	BLOCKING AS REQUIRED
A5180a	CUBICLE CURTAIN TRACK	CFCI	BLOCKING AS REQUIRED
A5180b	CUBICLE CURTAIN	CFCI	
A5200	TOILET PAPER DISPENSER	CFCI	BLOCKING AS REQUIRED
E0080	L-SHAPED DESK, 60" X 60"	CFCI	PROVIDED BY MVE
F0210	SIDE CHAIR WITHOUT ARMS	CFCI	PROVIDED BY FURNITURE VENDOR
F0215	CLASSROOM CHAIR	CFCI	PROVIDED BY FURNITURE VENDOR
F0220	CHAIR, CONFERENCE	CFCI	PROVIDED BY FURNITURE VENDOR
F0225	DINING CHAIR	CFCI	PROVIDED BY MVE
F0226	DINING STOOL	CFCI	PROVIDED BY MVE
F0250	LOUNGE CHAIR	CFCI	PROVIDED BY FURNITURE VENDOR
F0251	LOUNGE CHAIR	CFCI	PROVIDED BY FURNITURE VENDOR
F0300	CHAIR, TASK, SWIVEL, W/ ARMS	CFCI	PROVIDED BY FURNITURE VENDOR
F0374	LOVESEAT	CFCI	PROVIDED BY FURNITURE VENDOR
F0374b	LOVESEAT W/ INTEGRATED TABLETOPS	CFCI	PROVIDED BY FURNITURE VENDOR
F0375	SOFA W/ INTEGRATED TABLETOPS	CFCI	PROVIDED BY FURNITURE VENDOR
F0375b	SOFA	CFCI	PROVIDED BY FURNITURE VENDOR
F0376	SMALL SOFA	CFCI	PROVIDED BY FURNITURE VENDOR
F0380	OTTOMAN, 21"	CFCI	PROVIDED BY FURNITURE VENDOR
F0600	CREDENZA, 48"W X 18"D X 30"H	CFCI	PROVIDED BY MVE
F0735a	COFFEE TABLE, 24" X 36"	CFCI	PROVIDED BY MVE
F0735b	COFFEE TABLE, 24" X 60"	CFCI	PROVIDED BY MVE
F0740a	END TABLE, ROUND, 24" DIA.	CFCI	PROVIDED BY MVE
F0750a	TABLE, 24" X 60"	CFCI	PROVIDED BY MVE
F0750b	TABLE, 24" X 72"	CFCI	PROVIDED BY MVE
F0750c	TABLE, 18" X 48"	CFCI	PROVIDED BY MVE
F0750d	TABLE, 30" X 30"	CFCI	PROVIDED BY MVE

FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
F0750e	TABLE, 36" X 60"	CFCI	PROVIDED BY MVE
F0750f	TABLE, 30" X 72"	CFCI	PROVIDED BY MVE
F0760	CONFERENCE TABLE, 36" X 84"	CFCI	PROVIDED BY MVE
F0795a	TABLE, ROUND, 36" DIA.	CFCI	PROVIDED BY MVE
F0795b	TABLE, ROUND, 42" DIA.	CFCI	PROVIDED BY MVE
F0795c	TABLE, ROUND, 48" DIA.	CFCI	PROVIDED BY MVE
F0795d	TABLE, ROUND, 72" DIA.	CFCI	PROVIDED BY MVE
F1010	METAL DETECTOR	CFCI	POWER REQUIRED, RE: MEP
F2010	TRASH	CFCI	
F2405	BED, NON-MEDICAL	CFCI	
F3010	TACKBOARD, 48" X 48"	CFCI	BLOCKING AS REQUIRED
F3050	WHITEBOARD, 36" X 48"	CFCI	BLOCKING AS REQUIRED
K1552	COFFEE MAKER	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
K2490	COMMERCIAL DISHWASHER	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
K2516	COMMERCIAL DISHWASHER, U/C	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
K2517	DRAINING RACK	CFCI	POWER REQUIRED, RE: MEP
K4660	STACKED OVENS	CFCI	POWER REQUIRED, RE: MEP
K4665	MICROWAVE	CFCI	POWER REQUIRED, RE: MEP
M0506a	MONITOR, TELEVISION, 55"	CFCI	PROVIDE IN-WALL BLOCKING; POWER & CABLE REQUIRED, RE: MEP. BRACKET TO BE OFCI, COORDINATE BRACKET TYPE W/ OWNER
M0506b	MONITOR, TELEVISION, 65"	CFCI	PROVIDE IN-WALL BLOCKING; POWER & CABLE REQUIRED, RE: MEP. BRACKET TO BE OFCI, COORDINATE BRACKET TYPE W/ OWNER
M0506c	MONITOR, TELEVISION, 85"	CFCI	PROVIDE IN-WALL BLOCKING; POWER & CABLE REQUIRED, RE: MEP. BRACKET TO BE OFCI, COORDINATE BRACKET TYPE W/ OWNER
M1410	PHLEBOTOMY CHAIR, BARIATRIC	CFCI	PROVIDED BY FURNITURE VENDOR
M1801	COMPUTER MONITOR	CFCI	POWER & DATA REQUIRED, RE: MEP
M1802	DUAL COMPUTER MONITOR W/ KEYBOARD AND MOUSE	CFCI	POWER & DATA REQUIRED, RE: MEP
M1840	PRINTER/COPIER/FAX COMBINATION	CFCI	POWER & DATA REQUIRED, RE: MEP
M2055a	WIRE SHELVING, 48"W X 24"D X 75"H	CFCI	PROVIDED BY MVE
M2055b	WIRE SHELVING, 48"W X 12"D X 75"H	CFCI	PROVIDED BY MVE
M2300	WASHER	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
M2400	DRYER	CFCI	POWER REQUIRED, RE: MEP
M5030	NURSE STOOL	CFCI	PROVIDED BY FURNITURE VENDOR
R6200	REFRIGERATOR, UC, ADA	CFCI	POWER REQUIRED, RE: MEP
R7000	REFRIG. 30" W, LOCKABLE	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
R7001	FREEZER, 36" W, LOCKABLE	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
R7250a	REFRIG. 30" W	CFCI	POWER AND PLUMBING LINE REQUIRED, RE: MEP
U1001	RESIDENT ROOM CUSTOM MILLWORK	CFCI	BLOCKING AS REQUIRED; PROVIDED BY MVE
U1005	6 BURNER RANGE, 36"W	CFCI	POWER REQUIRED, RE: MEP
U1006	48" GRIDDLE	CFCI	POWER REQUIRED, RE: MEP
U1008	HOOD	CFCI	POWER REQUIRED, RE: MEP
U1009	TEAK CHAIR, 24"W X 14"D X 30"H	CFCI	PROVIDED BY MVE

A2 OVERALL FLOOR FURNITURE PLAN

1/8" = 1'-0"

TRUE NORTH / PLAN NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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DEPARTMENT OF Corrections

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2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
OVERALL FIRST FLOOR FFE PLAN

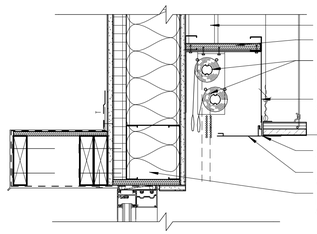
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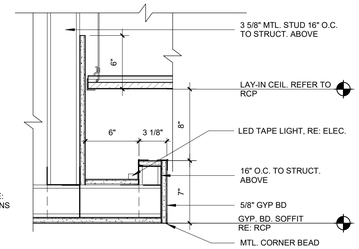
September 30, 2026

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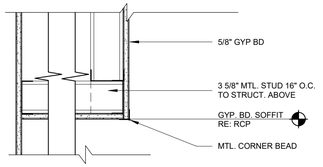
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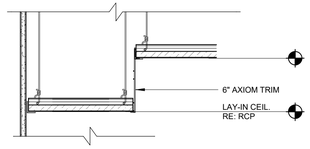
D5 DETAIL AT MANUAL DOUBLE WINDOW SHADE - POCKET
1 1/2" = 1'-0"



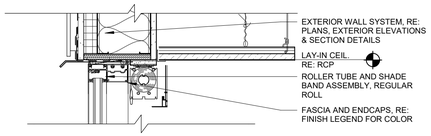
D4 DETAIL AT LIGHT COVE
1 1/2" = 1'-0"



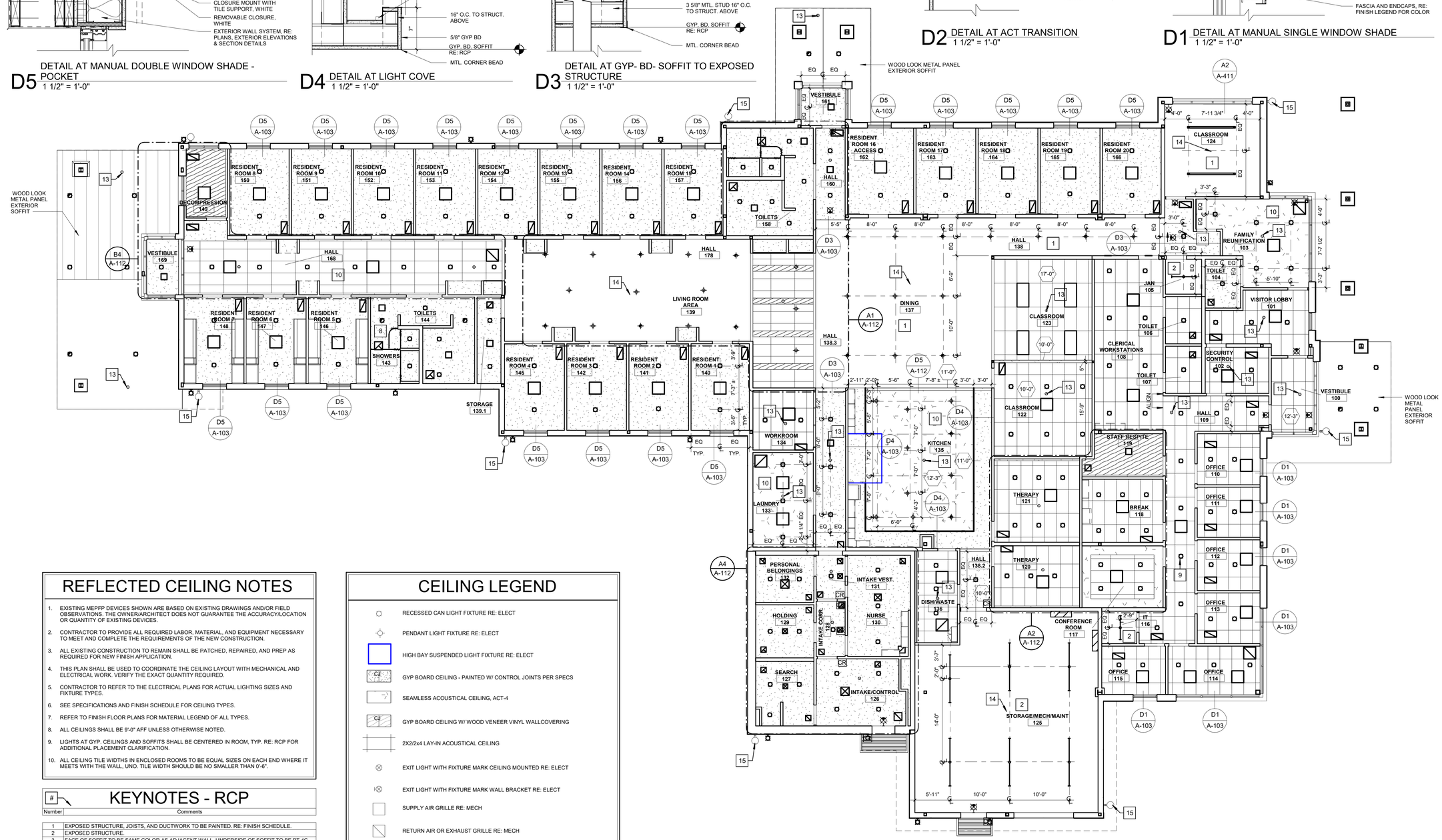
D3 DETAIL AT GYP- BD- SOFFIT TO EXPOSED STRUCTURE
1 1/2" = 1'-0"



D2 DETAIL AT ACT TRANSITION
1 1/2" = 1'-0"



D1 DETAIL AT MANUAL SINGLE WINDOW SHADE
1 1/2" = 1'-0"



REFLECTED CEILING NOTES

1. EXISTING MEPFP DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND/OR FIELD OBSERVATIONS. THE OWNER/ARCHITECT DOES NOT GUARANTEE THE ACCURACY/LOCATION OR QUANTITY OF EXISTING DEVICES.
2. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
3. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
4. THIS PLAN SHALL BE USED TO COORDINATE THE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL WORK. VERIFY THE EXACT QUANTITY REQUIRED.
5. CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR ACTUAL LIGHTING SIZES AND FIXTURE TYPES.
6. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR CEILING TYPES.
7. REFER TO FINISH FLOOR PLANS FOR MATERIAL LEGEND OF ALL TYPES.
8. ALL CEILINGS SHALL BE 9'-0" AFF UNLESS OTHERWISE NOTED.
9. LIGHTS AT GYP. CEILINGS AND SOFFITS SHALL BE CENTERED IN ROOM, TYP. RE: RCP FOR ADDITIONAL PLACEMENT CLARIFICATION.
10. ALL CEILING TILE WIDTHS IN ENCLOSED ROOMS TO BE EQUAL SIZES ON EACH END WHERE IT MEETS WITH THE WALL, UNO. TILE WIDTH SHOULD BE NO SMALLER THAN 0'-6".

CEILING LEGEND

- RECESSED CAN LIGHT FIXTURE RE: ELECT
- PENDANT LIGHT FIXTURE RE: ELECT
- HIGH BAY SUSPENDED LIGHT FIXTURE RE: ELECT
- C.I GYP BOARD CEILING - PAINTED W/ CONTROL JOINTS PER SPECS
- SEAMLESS ACOUSTICAL CEILING, ACT-4
- C.I GYP BOARD CEILING W/ WOOD VENEER VINYL WALLCOVERING
- 2X2/2x4 LAY-IN ACOUSTICAL CEILING
- EXIT LIGHT WITH FIXTURE MARK CEILING MOUNTED RE: ELECT
- EXIT LIGHT WITH FIXTURE MARK WALL BRACKET RE: ELECT
- SUPPLY AIR GRILLE RE: MECH
- RETURN AIR OR EXHAUST GRILLE RE: MECH
- 9'-0" SOFFIT HEIGHT
- 9'-0" CEILING HEIGHT

KEYNOTES - RCP

Number	Comments
1	EXPOSED STRUCTURE, JOISTS, AND DUCTWORK TO BE PAINTED. RE: FINISH SCHEDULE.
2	EXPOSED STRUCTURE.
3	FACE OF SOFFIT TO BE SAME COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-4C.
4	FACE OF SOFFIT TO BE SAME COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-3C.
5	GRAIN OF WOOD VENEER VINYL WALLCOVERING TO RUN EAST/WEST.
6	GRAIN OF WOOD VENEER VINYL WALLCOVERING TO RUN NORTH/SOUTH.
7	FACE OF SOFFIT TO BE SAME COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-1C.
8	RE: A1/A311 FOR TYPICAL LIGHT FIXTURE LOCATIONS FOR SHARED RESTROOMS.
9	ALL RECESSED CAN LIGHT FIXTURES IN ACT SHALL BE CENTERED IN THAT CEILING TILE, TYP.
10	COORDINATE CEILING-MOUNTED ITEMS WITH CEILING TYPE.
11	2' X 4' ACT CONTINUES TO WALL ABOVE NOOK GYP CEILINGS.
12	2' X 4' ACT ANDLINEAR WALL WASH LIGHT CONTINUE ABOVE NOOK GYP CEILINGS.
13	<varies>
14	PENDANT-MOUNTED SECURITY CAMERA. RE: MEP. COORDINATE FINAL LOCATIONS W/ CAMERA MANUFACTURER.
15	WALL-MOUNTED EXTERIOR SECURITY CAMERA. RE: MEP. COORDINATE FINAL LOCATIONS W/ CAMERA MANUFACTURER.

A3 OVERALL REFLECTED CEILING PLAN
1/8" = 1'-0"

TRUE NORTH / PLAN NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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PROJECT # C2512-01
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Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
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CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
FIRST FLOOR REFLECTED CEILING PLAN & DETAILS

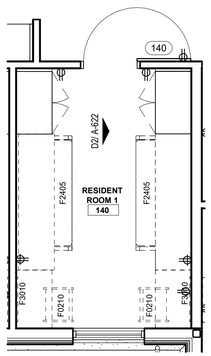
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A-103

September 30, 2026

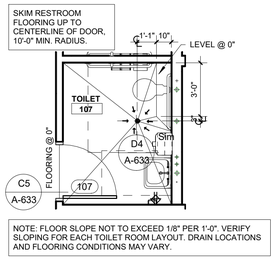
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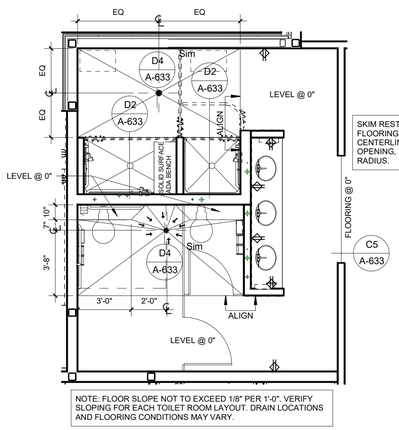
A5 TYP. RESIDENT ROOM
1/4" = 1'-0"



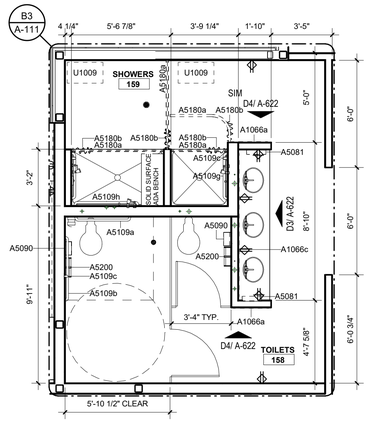
B4 SLOPING PLAN - TYP. INDIVIDUAL TOILET
1/4" = 1'-0"



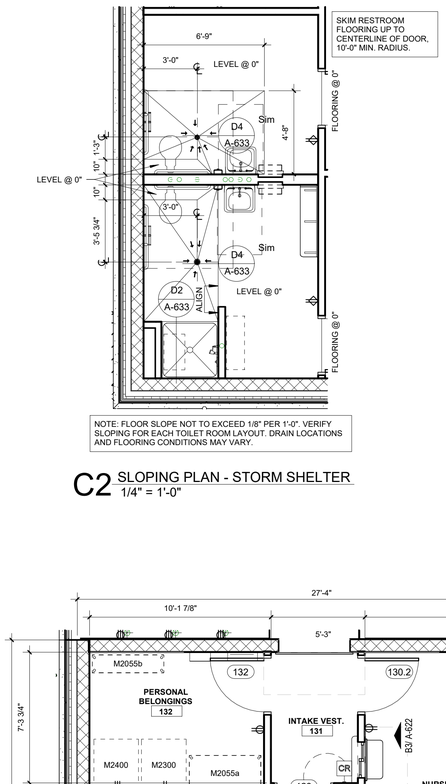
A4 ENLARGED PLAN - TYP. INDIVIDUAL TOILET
1/4" = 1'-0"



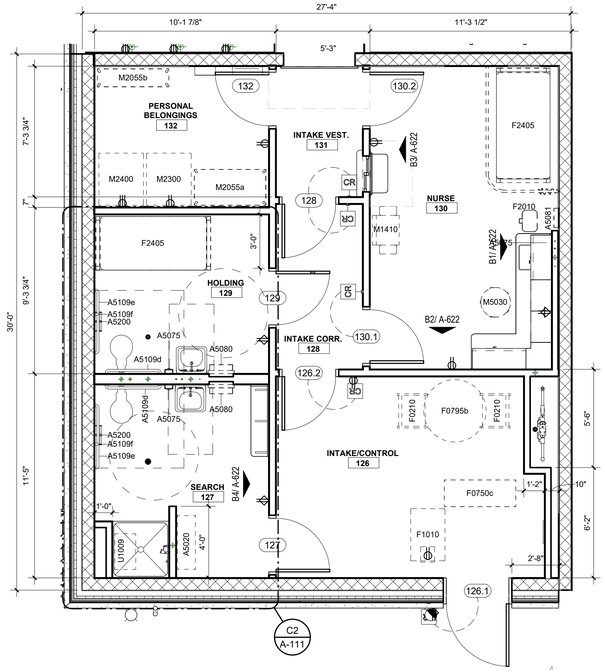
B3 SLOPING PLAN - TYP. TOILET/SHOWER
1/4" = 1'-0"



A3 ENLARGED PLAN - TYP. TOILET/SHOWER
1/4" = 1'-0"



C2 SLOPING PLAN - STORM SHELTER
1/4" = 1'-0"



A2 ENLARGED PLAN - STORM SHELTER
1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
REGISTERED ARCHITECT
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

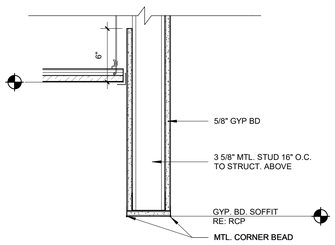
SHEET TITLE:
ENLARGED FLOOR PLANS

SHEET NUMBER:
A-111

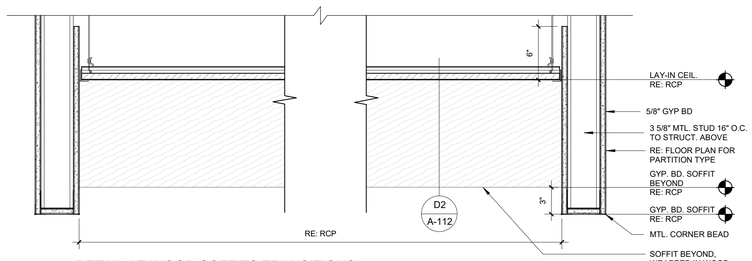
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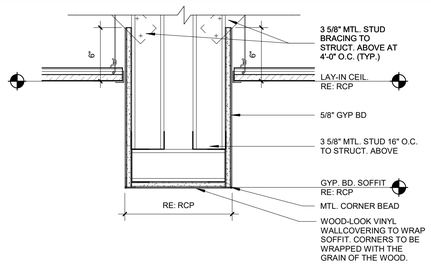
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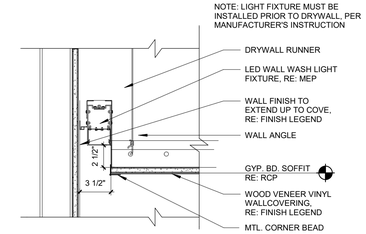
D5 DETAIL AT BULKHEAD
1 1/2" = 1'-0"



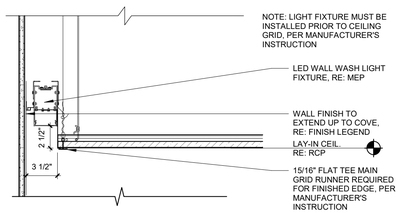
D4 DETAIL AT WOOD SOFFITS TRANSITIONS
1 1/2" = 1'-0"

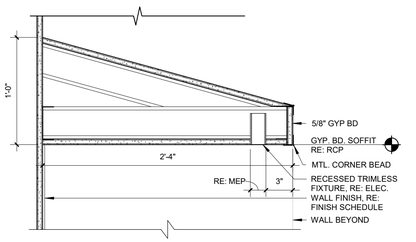


D2 DETAIL AT SOFFIT W/ WOOD VENEER VINYL WALLCOVERING
1 1/2" = 1'-0"

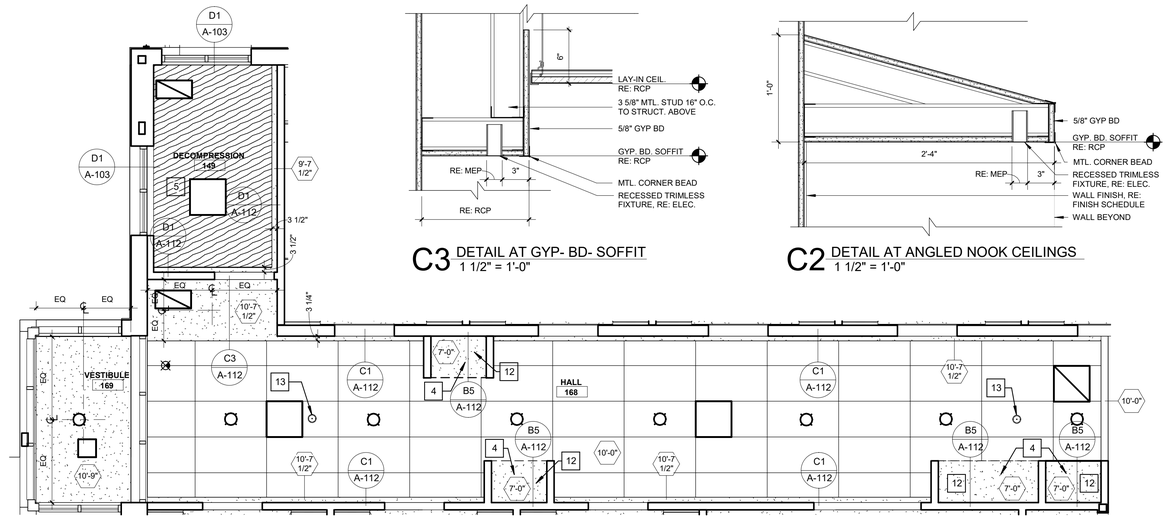


D1 DETAIL AT WALL WASH LIGHTING COVE
1 1/2" = 1'-0"





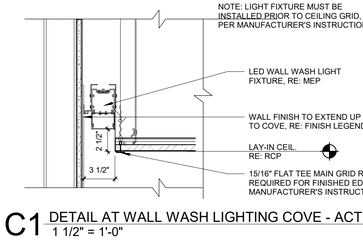
B5 DETAIL AT ANGLED NOOK CEILINGS + WALL WASH
1 1/2" = 1'-0"



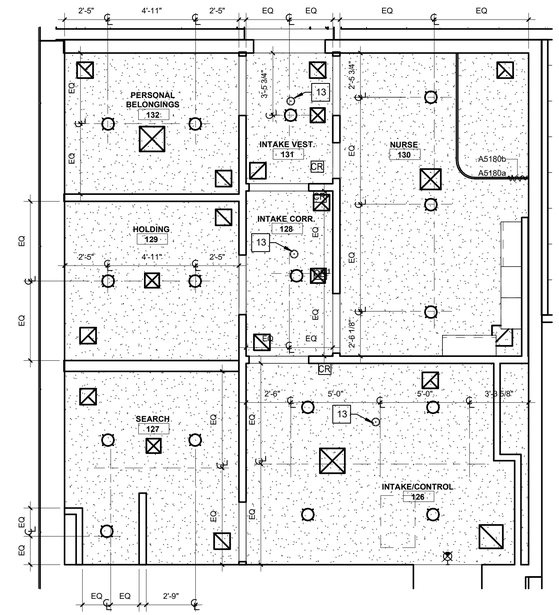
B4 ENLARGED RCP - RESIDENT HALL
1/4" = 1'-0"

C3 DETAIL AT GYP- BD- SOFFIT
1 1/2" = 1'-0"

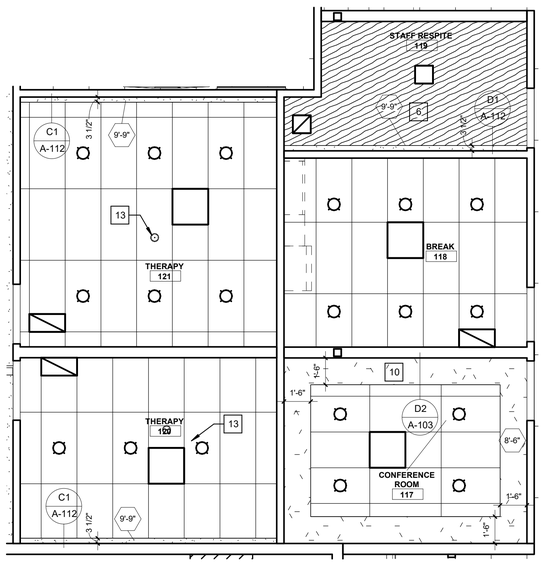
C2 DETAIL AT ANGLED NOOK CEILINGS
1 1/2" = 1'-0"



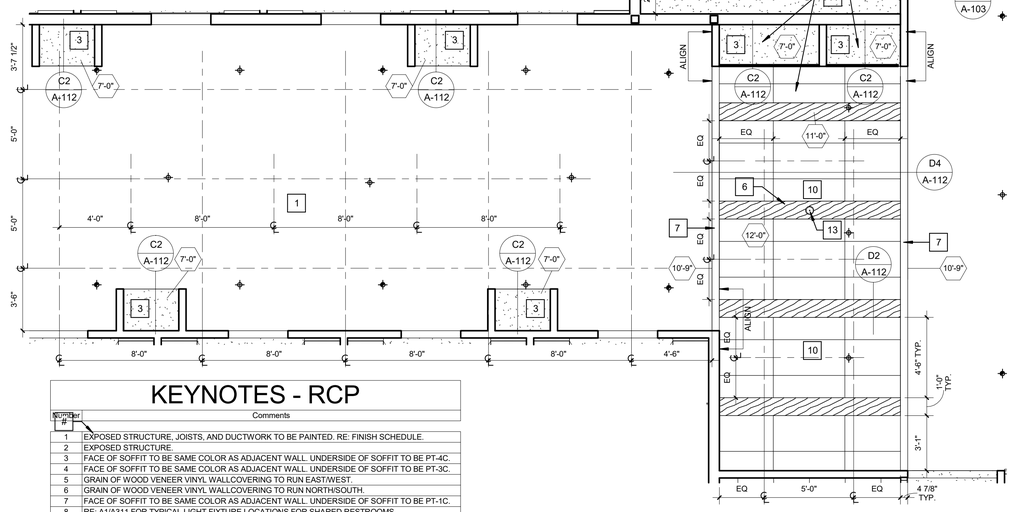
C1 DETAIL AT WALL WASH LIGHTING COVE - ACT
1 1/2" = 1'-0"



A4 ENLARGED RCP - INTAKE SUITE
1/4" = 1'-0"



A2 ENLARGED RCP - THERAPY & STAFF RESPITE
1/4" = 1'-0"



A1 ENLARGED RCP - LIVING ROOM AREA & TYP. SHARED RESTROOM
1/4" = 1'-0"

KEYNOTES - RCP

Number #	Comments
1	EXPOSED STRUCTURE, JOISTS, AND DUCTWORK TO BE PAINTED. RE: FINISH SCHEDULE.
2	EXPOSED STRUCTURE.
3	FACE OF SOFFIT TO BE SAME COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-4C.
4	FACE OF SOFFIT TO BE SAME COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-3C.
5	GRAIN OF WOOD VENEER VINYL WALLCOVERING TO RUN EAST/WEST.
6	GRAIN OF WOOD VENEER VINYL WALLCOVERING TO RUN NORTH/SOUTH.
7	FACE OF SOFFIT TO BE SAME COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-1C.
8	RE: A1/A311 FOR TYPICAL LIGHT FIXTURE LOCATIONS FOR SHARED RESTROOMS.
9	ALL RECESSED CAN LIGHT FIXTURES IN ACT SHALL BE CENTERED IN THAT CEILING TILE, TYP.
10	COORDINATE CEILING-MOUNTED ITEMS WITH CEILING TYPE.
11	2' X 4' ACT CONTINUES TO WALL ABOVE NOOK GYP CEILINGS.
12	2' X 4' ACT ANDLINEAR WALL WASH LIGHT CONTINUE ABOVE NOOK GYP CEILINGS.
13	<varies>
14	PENDANT-MOUNTED SECURITY CAMERA. RE: MEP. COORDINATE FINAL LOCATIONS W/ CAMERA MANUFACTURER.
15	WALL-MOUNTED EXTERIOR SECURITY CAMERA. RE: MEP. COORDINATE FINAL LOCATIONS W/ CAMERA MANUFACTURER.

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
REGISTERED ARCHITECT
9/30/2026

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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

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CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
ENLARGED REFLECTED CEILING PLANS & DETAILS

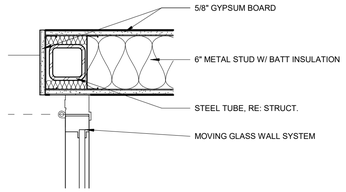
SHEET NUMBER:
A-112

September 30, 2026

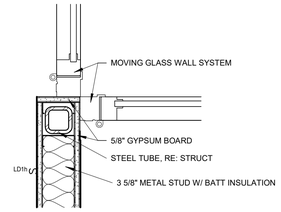
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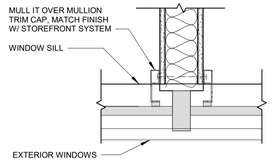
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C4 PLAN DETAIL - GLASS WALL JAMB 2
1 1/2" = 1'-0"



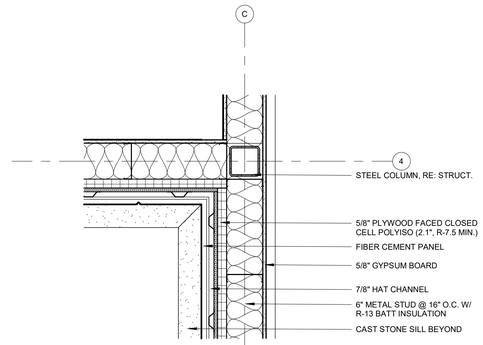
C3 PLAN DETAIL - GLASS WALL JAMB
1 1/2" = 1'-0"



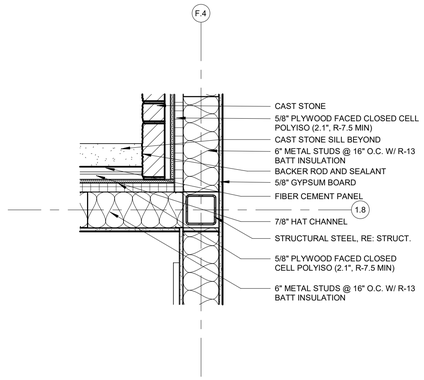
C2 PLAN DETAIL - MULL-IT OVER DETAIL
1 1/2" = 1'-0"

B4 PLAN DETAIL - EXTERIOR COLUMN SURROUNDS
1" = 1'-0"

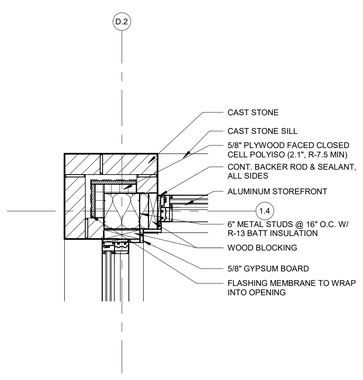
B3 PLAN DETAIL - OUTSIDE CORNER
1" = 1'-0"



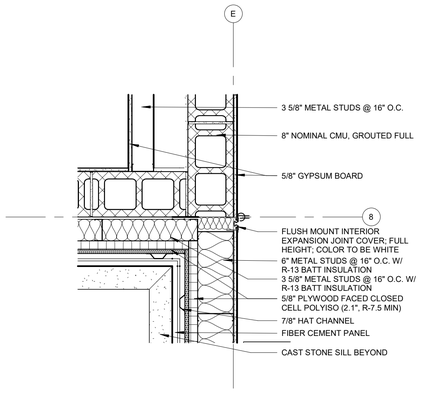
B2 PLAN DETAIL - INSIDE CORNER
1" = 1'-0"



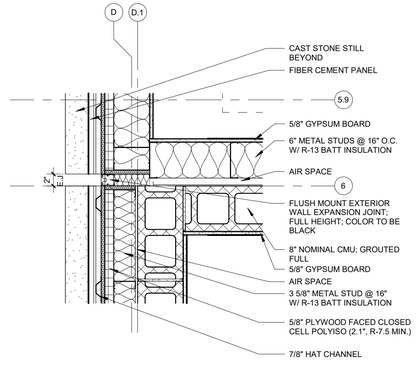
A5 PLAN DETAIL - CORNER AT FCP AND STONE
1" = 1'-0"



A4 PLAN DETAIL - VESTIBULE CORNER AT STOREFRONT
1" = 1'-0"



A3 PLAN DETAIL - CORNER AT STORM SHELTER & STORAGE
1" = 1'-0"



A2 PLAN DETAIL - STORM SHELTER EXPANSION JOINT
1" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003948
9/30/2026

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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A-121

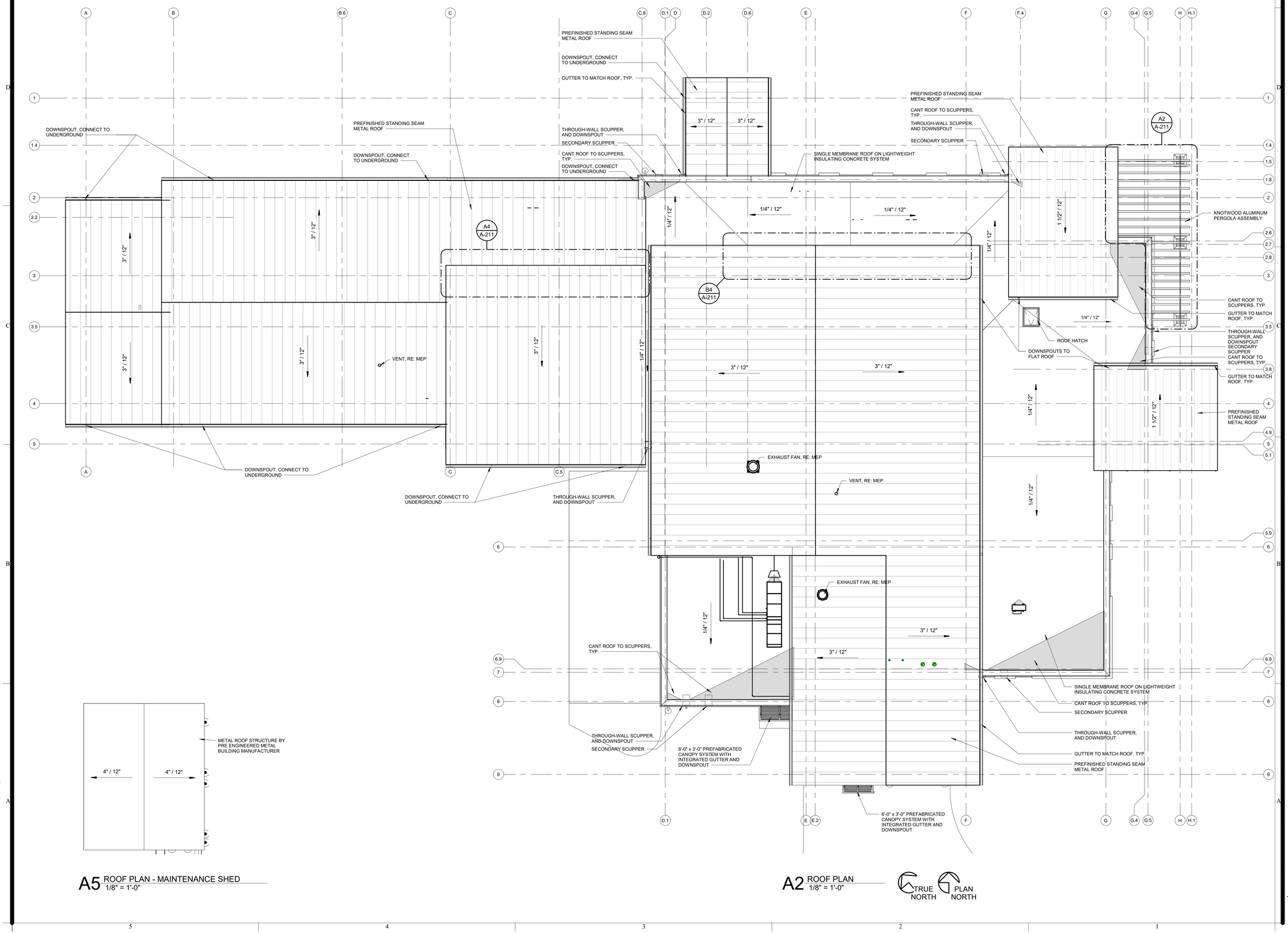
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A5 ROOF PLAN - MAINTENANCE SHED
1/8" = 1'-0"

A2 ROOF PLAN
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
REGISTERED ARCHITECT
9/30/2026

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CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
OVERALL ROOF PLAN

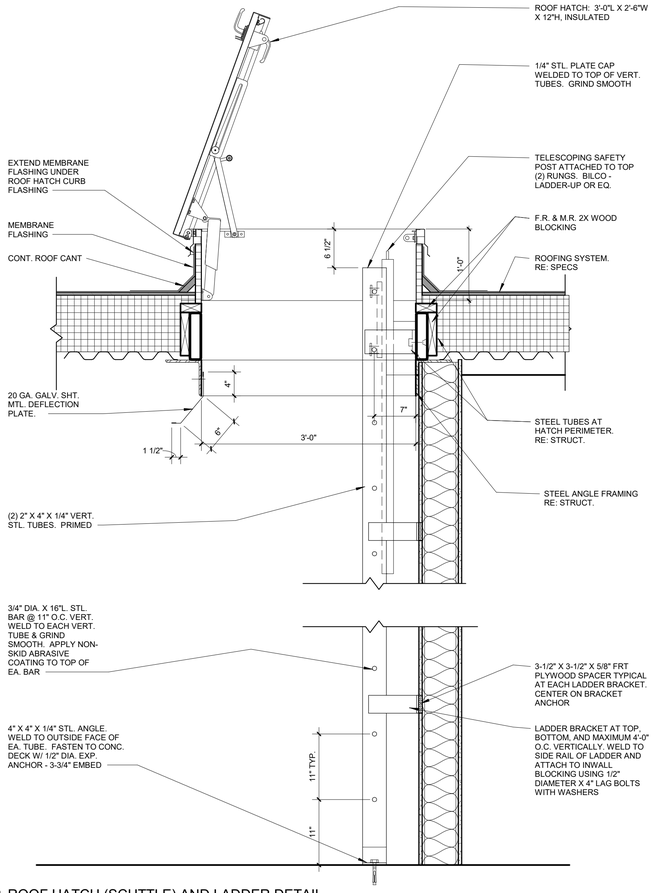
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52 OF 133

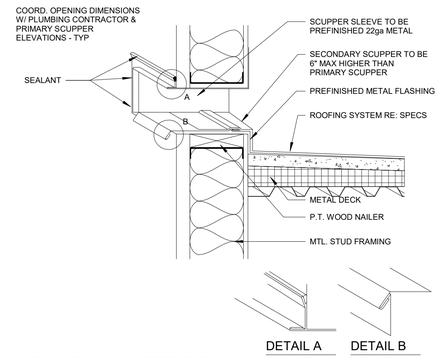
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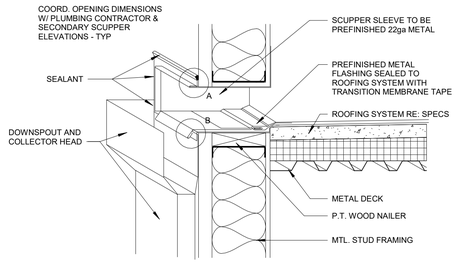
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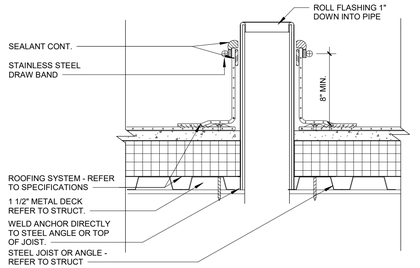
C5 ROOF HATCH (SCUTTLE) AND LADDER DETAIL
1" = 1'-0"



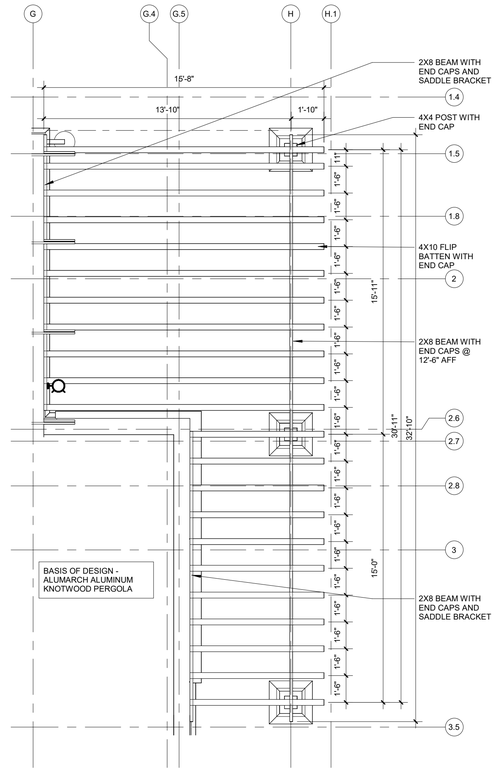
D3 SECONDARY SCUPPER DETAIL
1 1/2" = 1'-0"



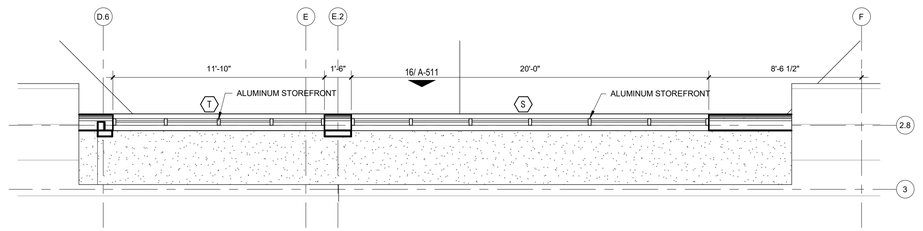
C3 PRIMARY SCUPPER DETAIL
1 1/2" = 1'-0"



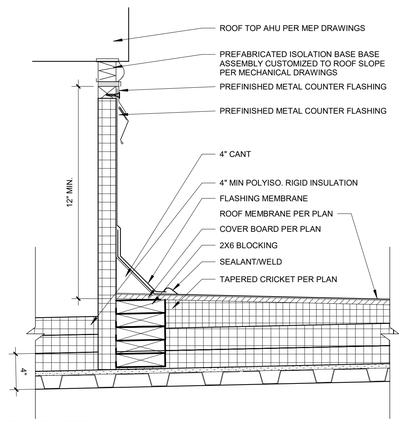
C2 VENT FLASHING DETAIL
1 1/2" = 1'-0"



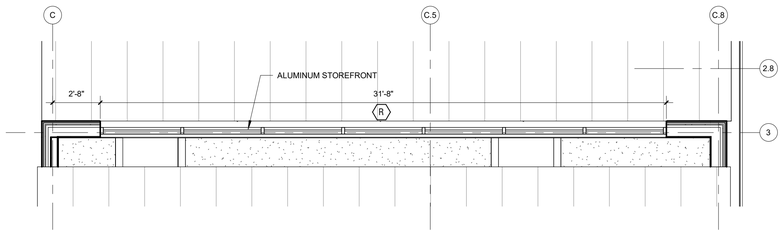
A2 ENLARGED PLAN - PERGOLA
1/4" = 1'-0"



B4 ENLARGED PLAN - DINING CLERESTORY
1/4" = 1'-0"



A5 ROOF CURB DETAIL
1 1/2" = 1'-0"



A4 ENLARGED PLAN - RESIDENT CLERESTORY
1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
NOTARY PUBLIC - NOTARY SEAL - STATE OF MISSOURI
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CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
ENLARGED ROOF PLANS AND DETAILS

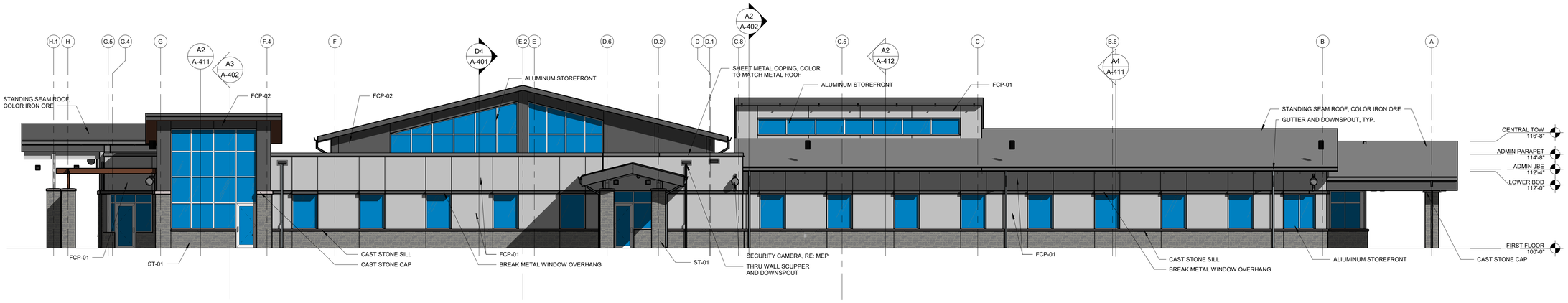
SHEET NUMBER:
A-211

53 OF 133

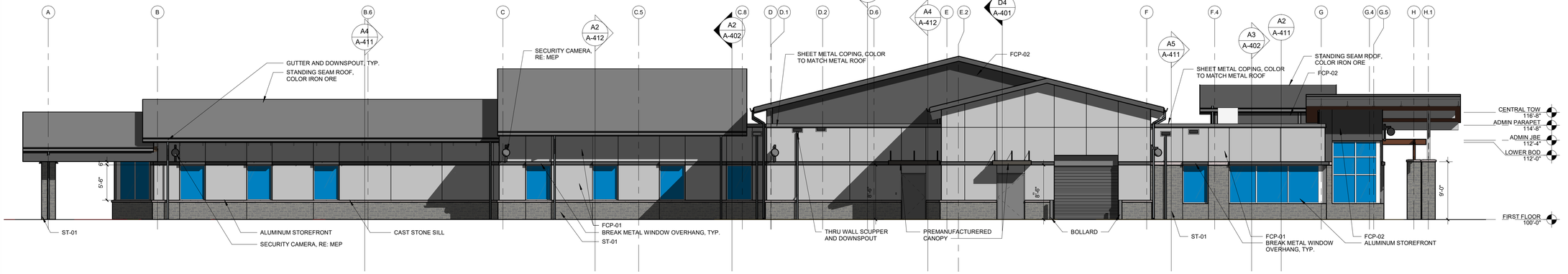
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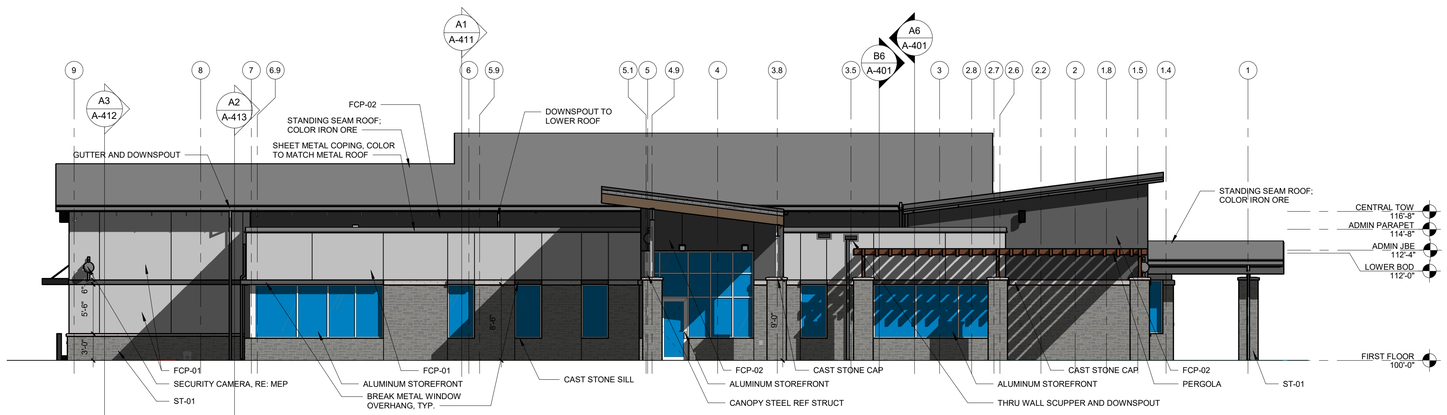
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C5 EXTERIOR ELEVATION - NORTHEAST
1/8" = 1'-0"



B5 EXTERIOR ELEVATION - SOUTHWEST
1/8" = 1'-0"



A5 EXTERIOR ELEVATION - SOUTHEAST
1/8" = 1'-0"

*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.

GENERAL NOTES

1. PAINT ALL EXTERIOR HOLLOW METAL DOORS AND ALL HOLLOW METAL DOOR FRAMES TO MATCH INTERIOR HOLLOW METAL FRAMES
2. ALL EXTERIOR OPENING SHALL BE THERMALLY BROKEN.

EXTERIOR FINISH KEY

BASIS OF DESIGN

- ST-01 - ECHELON WATERFORD STONE, VINCENT
- FCP-01 - NICHIHA FIBER CEMENT PANEL, MASONRY SERIES SANDSTONE GENTLE GRAY
- FCP-02 - NICHIHA FIBER CEMENT PANEL, DIMENSION SERIES RIBBED INDIGO (VERTICAL)

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MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
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NUMBER A-2025003940
NOTARY PUBLIC
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JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A-301

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September 30, 2026

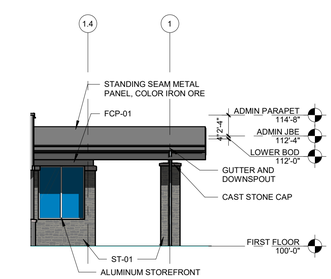
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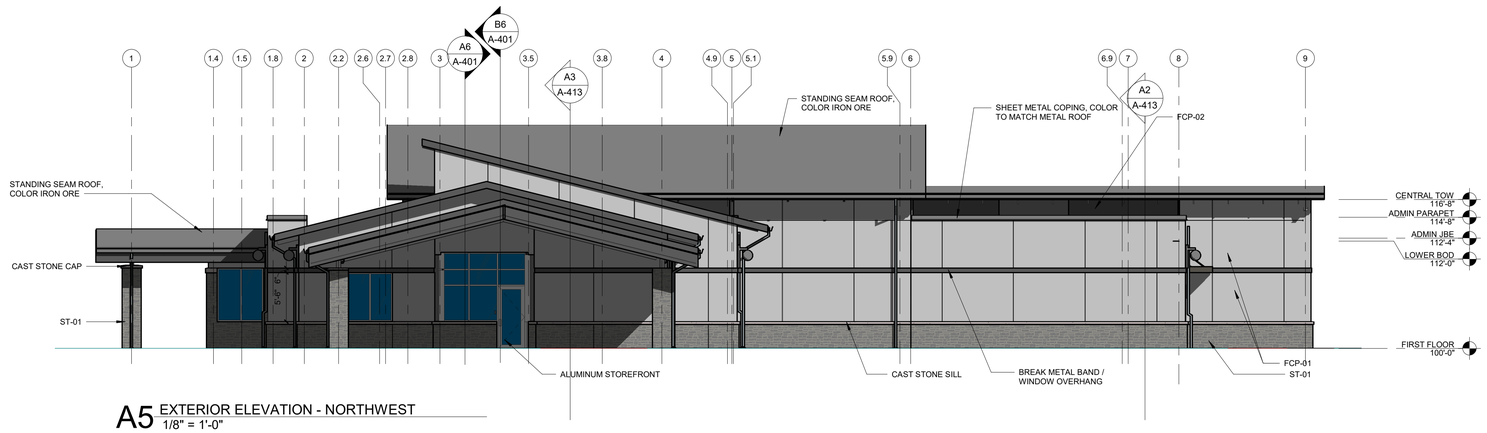
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B2 PARTIAL ELEVATION - NORTHEAST
1/8" = 1'-0"



B1 PARTIAL ELEVATION -NORTHEAST
1/8" = 1'-0"



A5 EXTERIOR ELEVATION - NORTHWEST
1/8" = 1'-0"

GENERAL NOTES

1. PAINT ALL EXTERIOR HOLLOW METAL DOORS AND ALL HOLLOW METAL DOOR FRAMES TO MATCH INTERIOR HOLLOW METAL FRAMES
2. ALL EXTERIOR OPENING SHALL BE THERMALLY BROKEN.

EXTERIOR FINISH KEY

BASIS OF DESIGN

- ST-01 - ECHELON WATERFORD STONE, VINCENT
- FCP-01 - NICHIHA FIBER CEMENT PANEL, MASONRY SERIES SANDSTONE GENTLE GRAY
- FCP-02 - NICHIHA FIBER CEMENT PANEL, DIMENSION SERIES RIBBED INDIGO (VERTICAL)

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
EXTERIOR ELEVATIONS

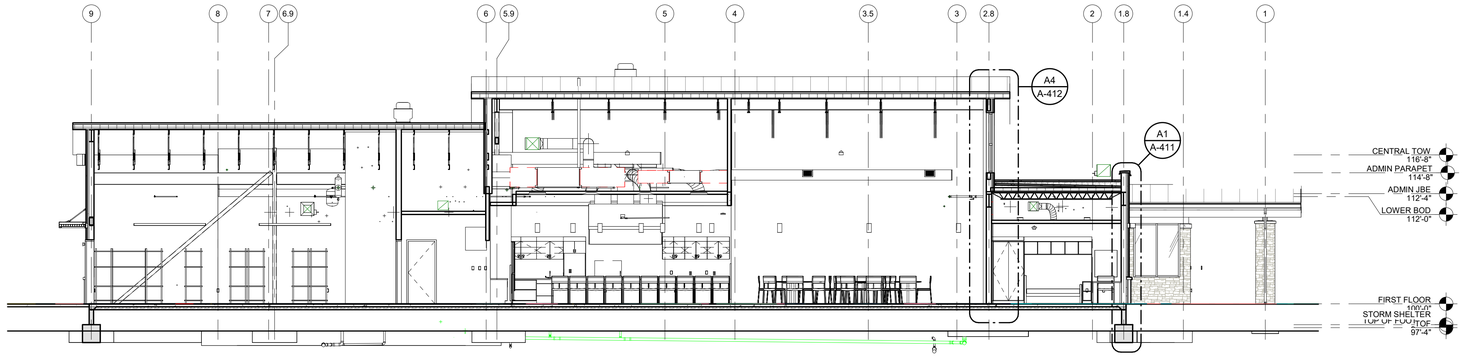
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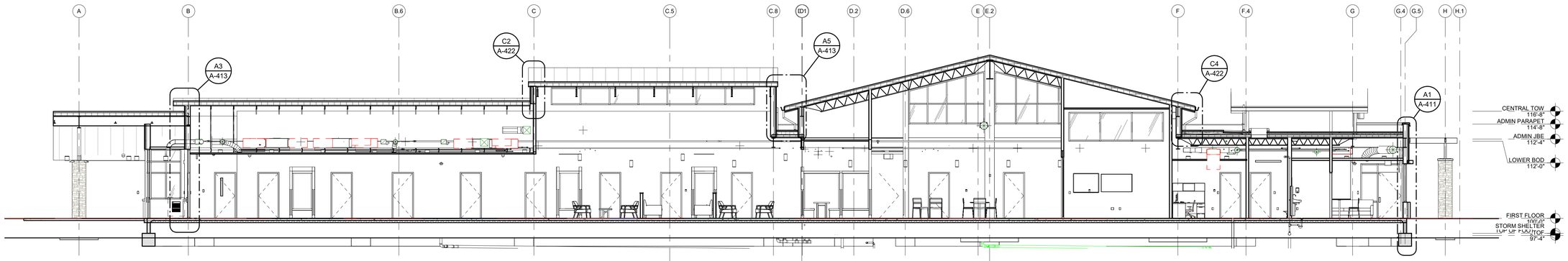
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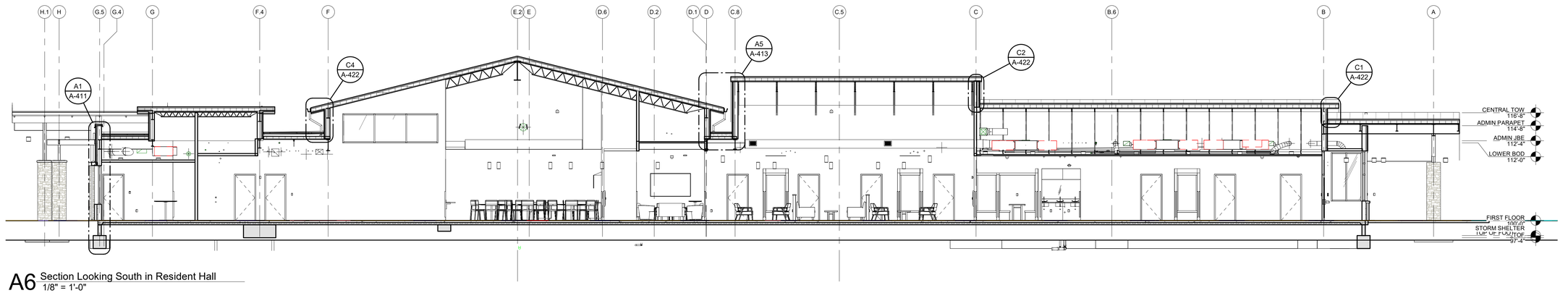
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D4 Section Through Dining
1/8" = 1'-0"



B6 Section Looking North in Resident Hall
1/8" = 1'-0"



A6 Section Looking South in Resident Hall
1/8" = 1'-0"

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MIKE KEHOE,
GOVERNOR

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DOMINIC J. SPADAFORE
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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOALND

SHEET TITLE:
OVERALL BUILDING SECTIONS

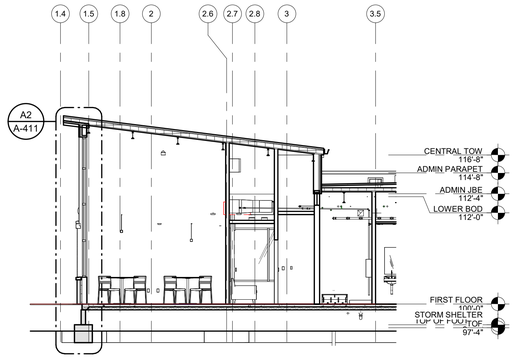
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A-401

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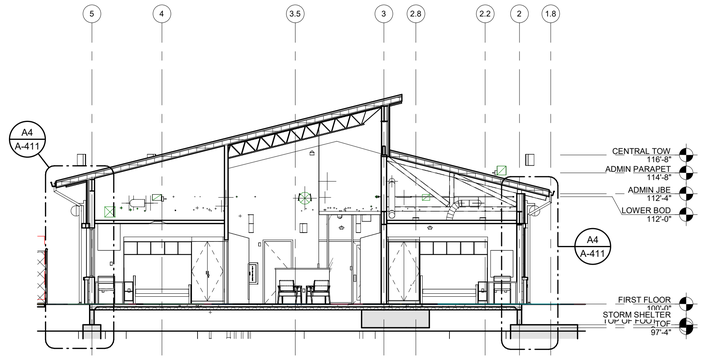
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A3 Wall Section at North Classroom
1/8" = 1'-0"



A2 Section Looking NW through Dorm
1/8" = 1'-0"

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CAD DWG FILE:
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CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
OVERALL BUILDING SECTIONS

SHEET NUMBER:
A-402

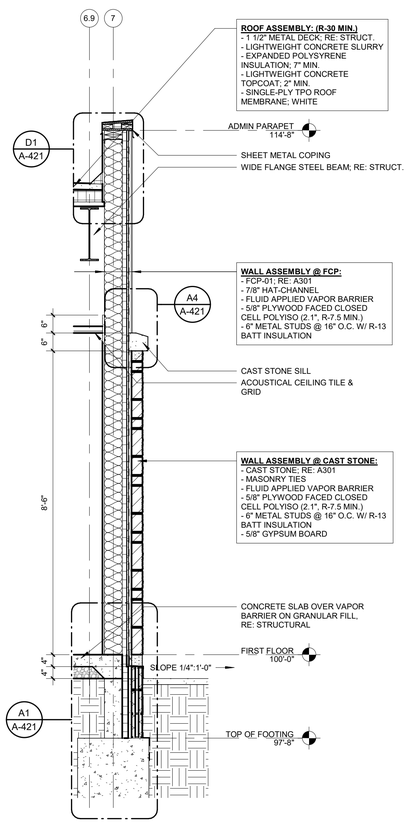
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September 30, 2026

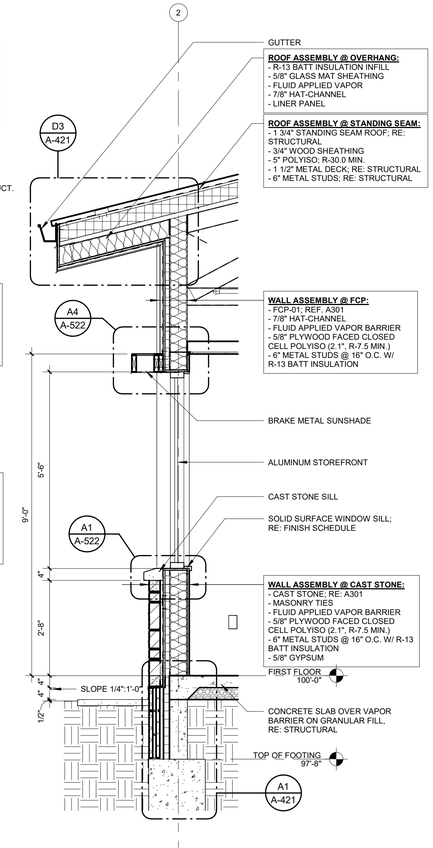
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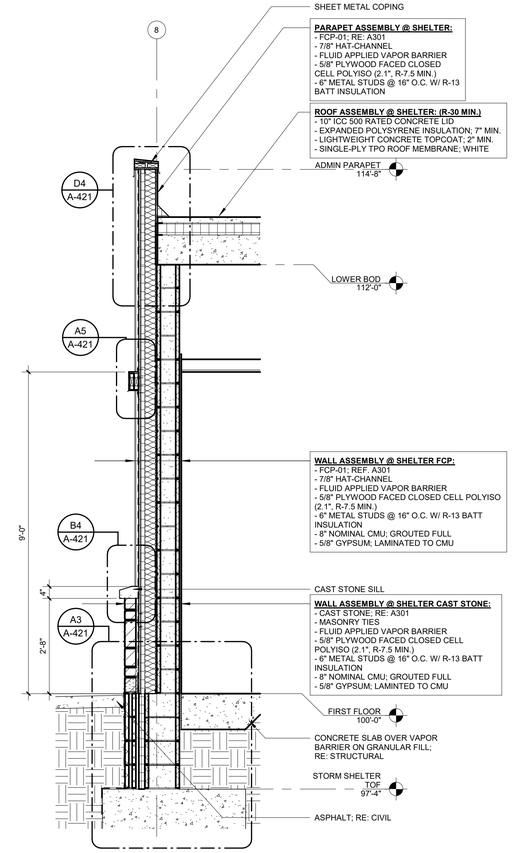
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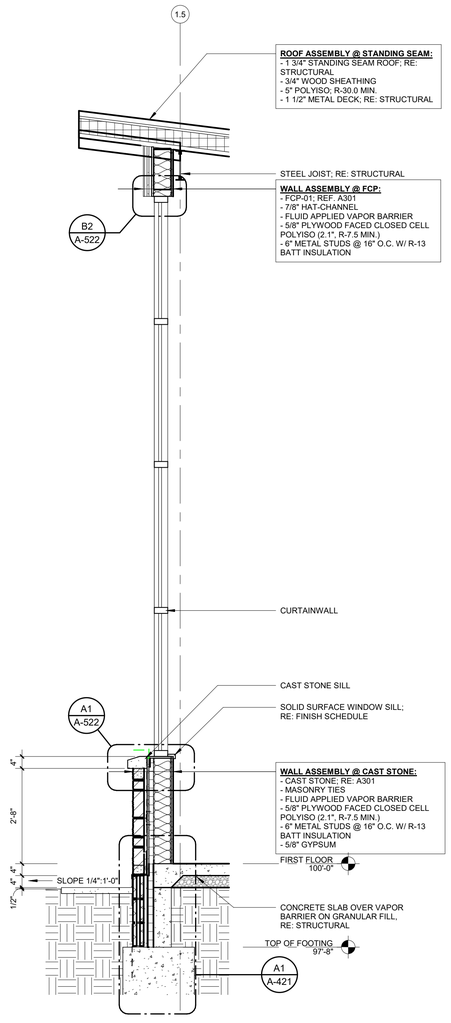
A5 WALL SECTION @ ADMIN
1/2" = 1'-0"



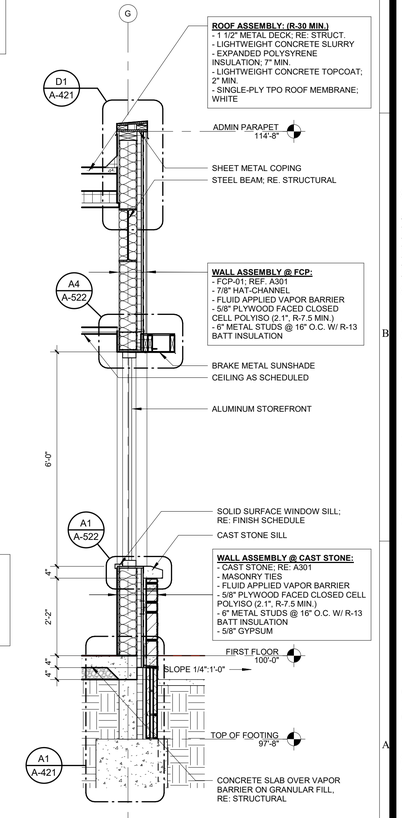
A4 WALL SECTION @ RESIDENT WINDOW
1/2" = 1'-0"



A3 WALL SECTION @ STORM SHELTER
1/2" = 1'-0"



A2 WALL SECTION @ CLASSROOM WINDOW
1/2" = 1'-0"



A1 WALL SECTION @ ADMIN WINDOW
1/2" = 1'-0"

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MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
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REGISTERED ARCHITECT
9/30/2026

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS, PK
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
WALL SECTIONS

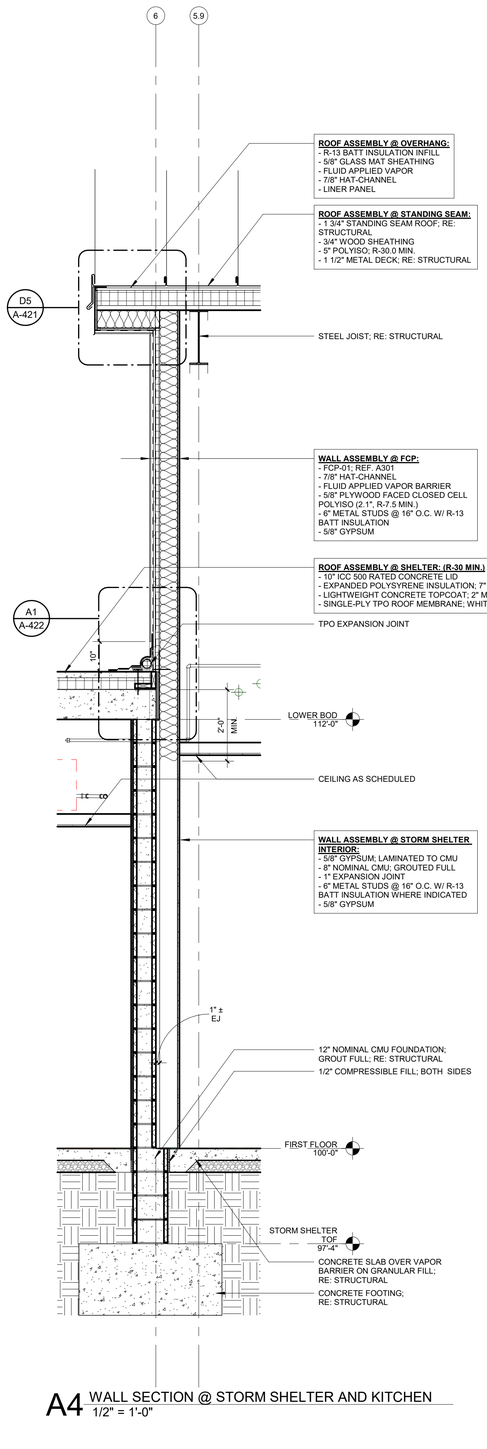
SHEET NUMBER:
A-411

58 OF 133

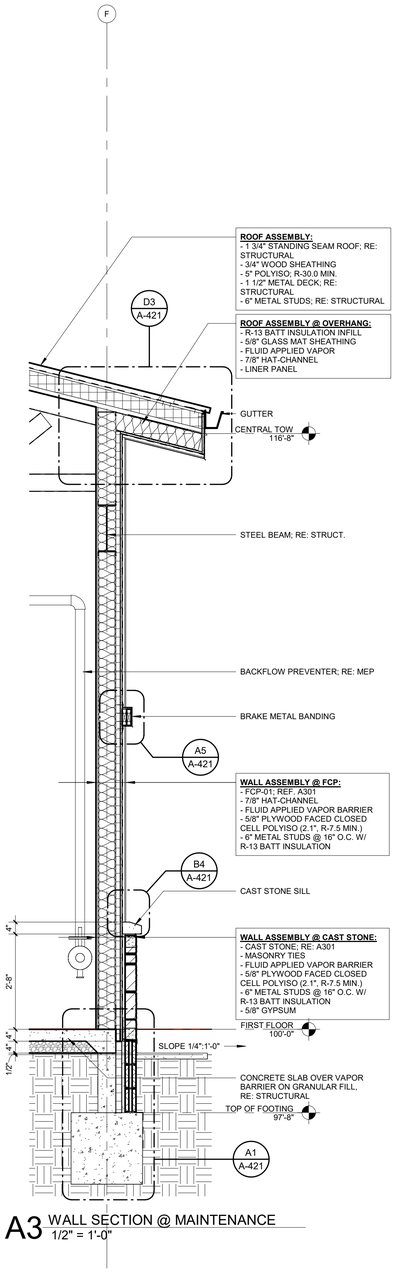
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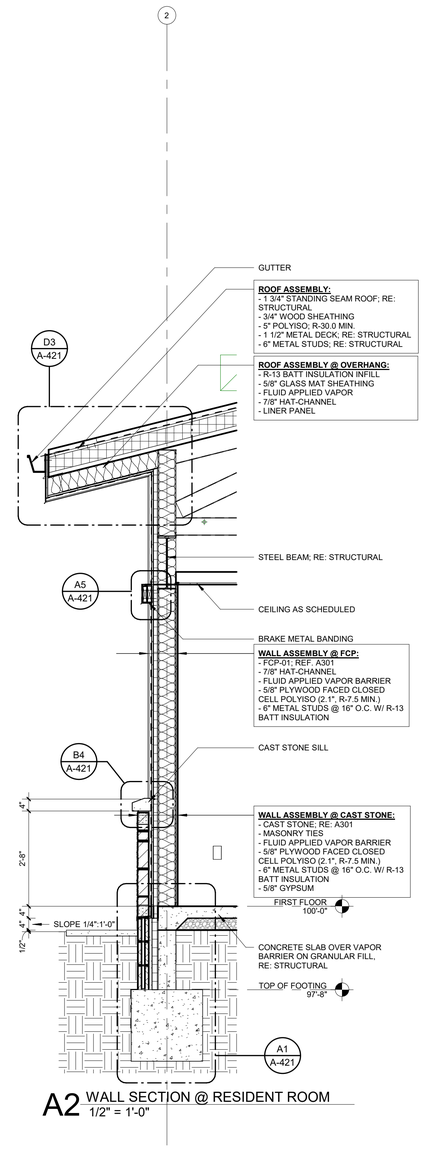
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A4 WALL SECTION @ STORM SHELTER AND KITCHEN
1/2" = 1'-0"



A3 WALL SECTION @ MAINTENANCE
1/2" = 1'-0"



A2 WALL SECTION @ RESIDENT ROOM
1/2" = 1'-0"

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MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003948
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9/30/2026

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CAD DWG FILE:
DRAWN BY: KNS, PK
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DESIGNED BY: ACI BOLAND

SHEET TITLE:
WALL SECTIONS

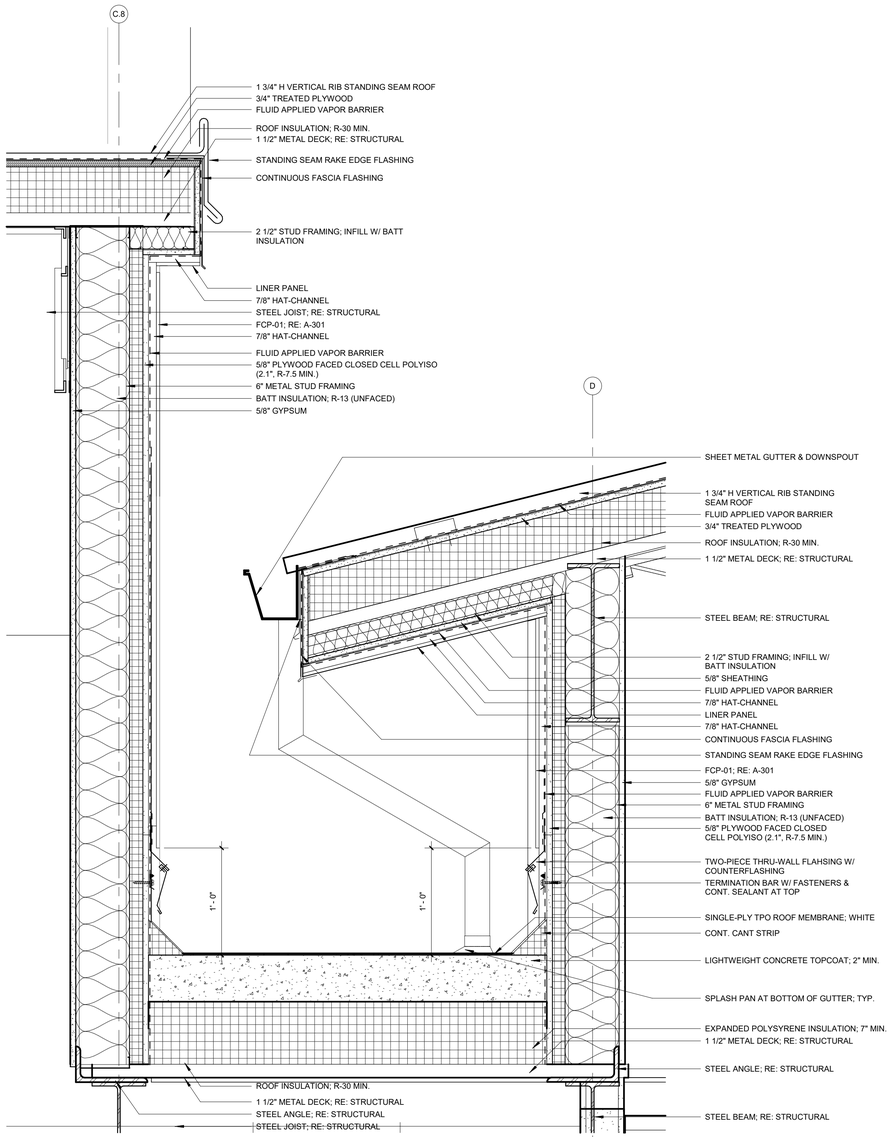
SHEET NUMBER:
A-412

59 OF 133

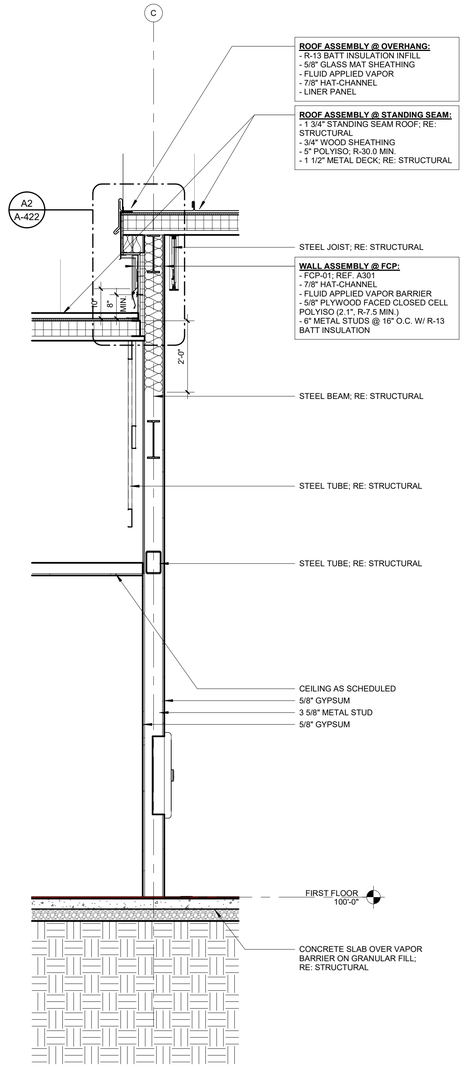
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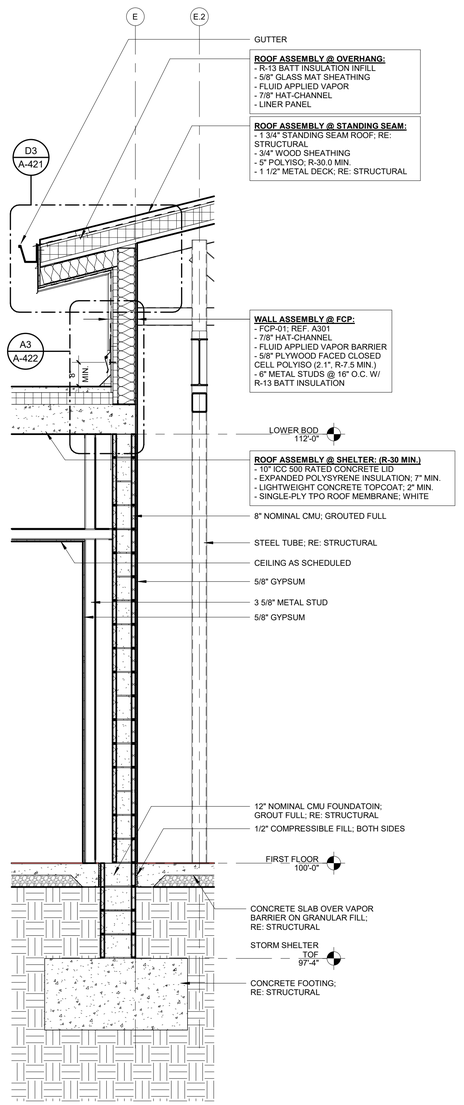
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A5 WALL SECTION @ ROOF TRANSITIONS
1 1/2" = 1'-0"



A3 WALL SECTION @ RESIDENT CLERESTORY
1/2" = 1'-0"



A2 WALL SECTION @ STORM SHELTER/MAINT
1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
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JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

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DRAWN BY: KNS, PK
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A-413

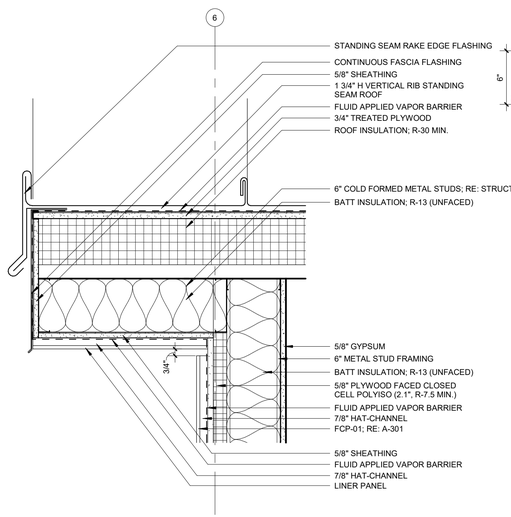
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September 30, 2026

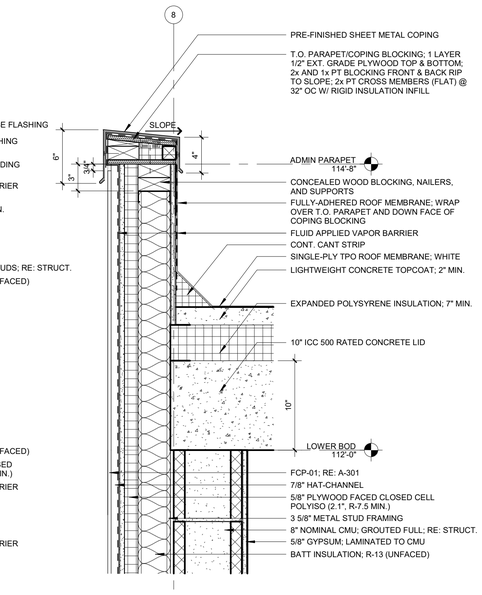
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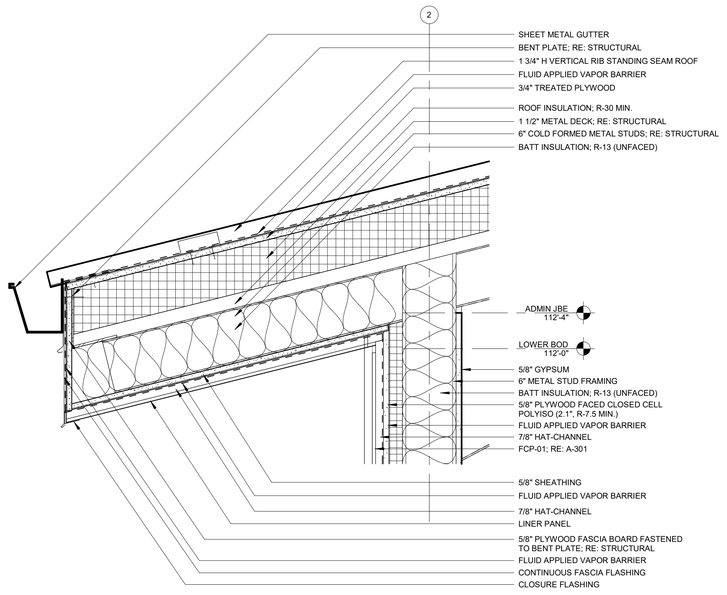
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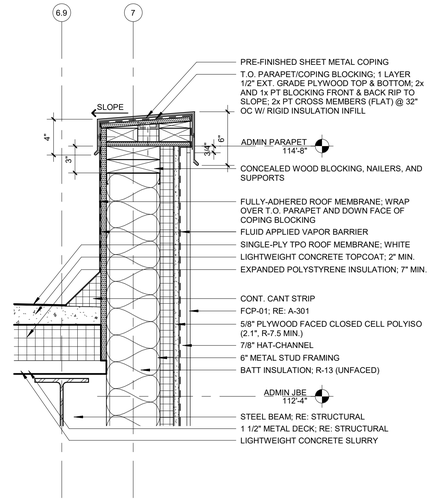
D5 SECTION DETAIL - END
1 1/2" = 1'-0"



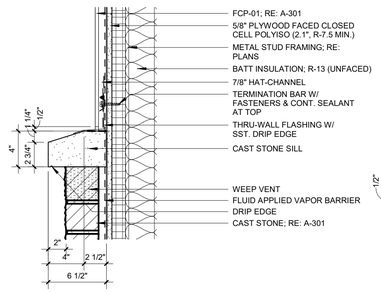
D4 SECTION DETAIL - PARAPET @ STORM SHELTER
1 1/2" = 1'-0"



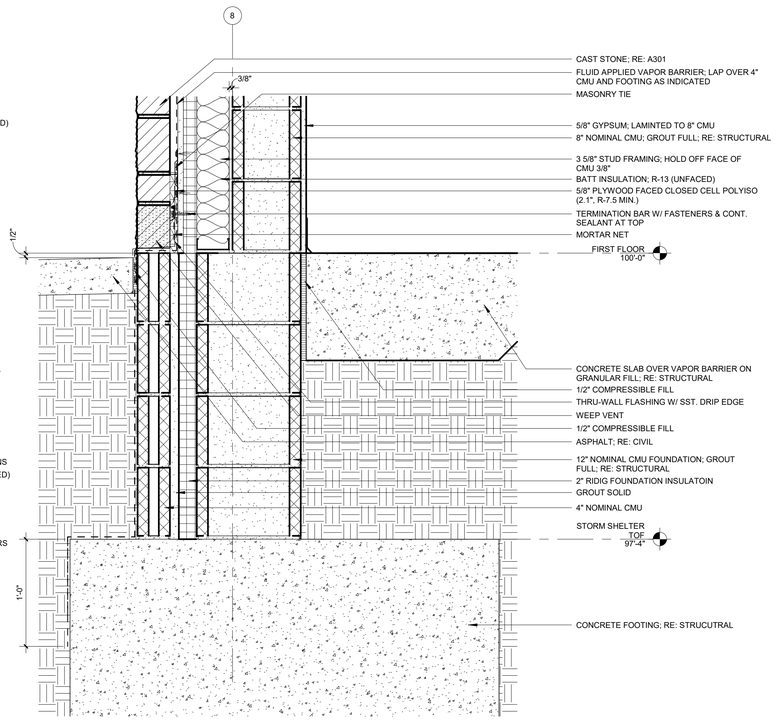
D3 SECTION DETAIL - OVERHANG @ STANDING SEAM
1 1/2" = 1'-0"



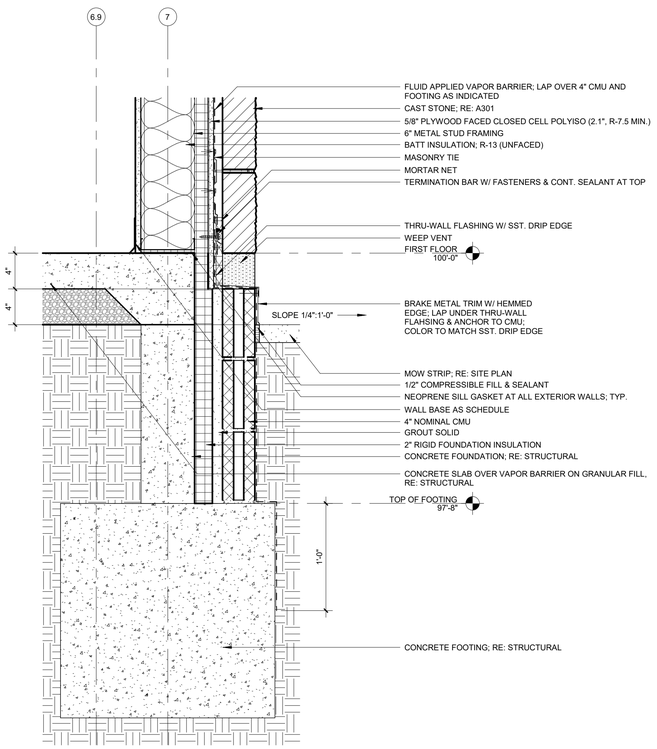
D1 SECTION DETAIL - PARAPET @ STUD WALLS
1 1/2" = 1'-0"



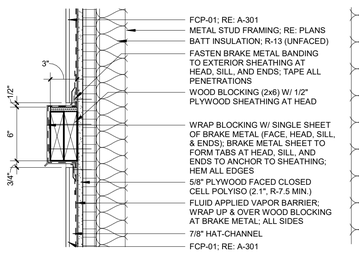
B4 SECTION DETAIL @ 4" CAST STONE SILL
1 1/2" = 1'-0"



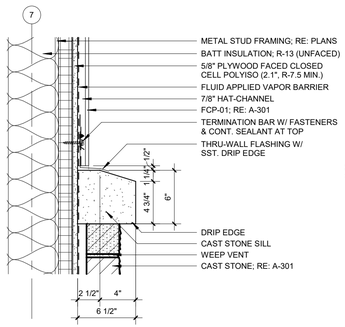
A3 SECTION DETAIL @ FOUNDATOIN @ STORM SHELTER
1 1/2" = 1'-0"



A1 SECTION DETAIL - FOUDATION @ STUD WALLS
1 1/2" = 1'-0"



A5 SECTION DETAIL @ BRAKE METAL BANDING
1 1/2" = 1'-0"



A4 SECTION DETAIL @ 6" CAST STONE SILL
1 1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS, PK
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A-421

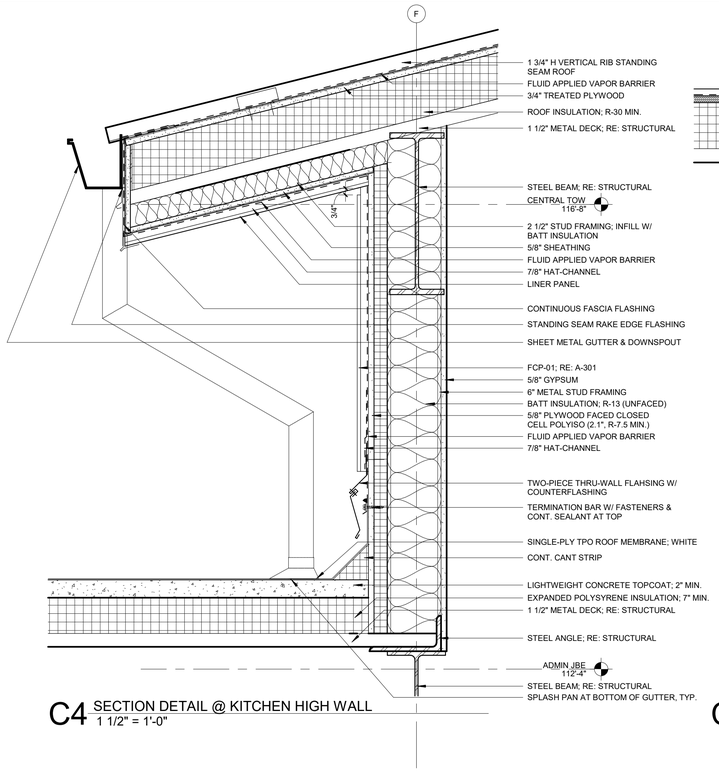
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September 30, 2026

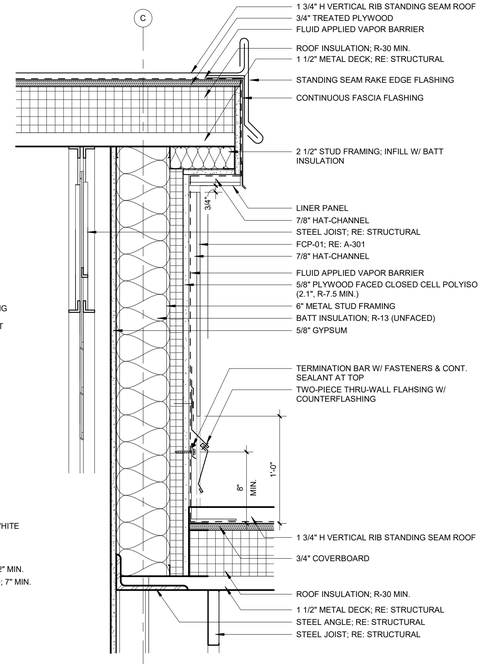
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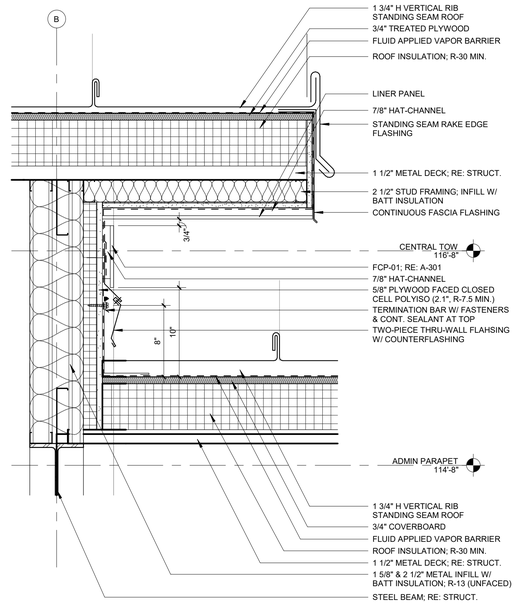
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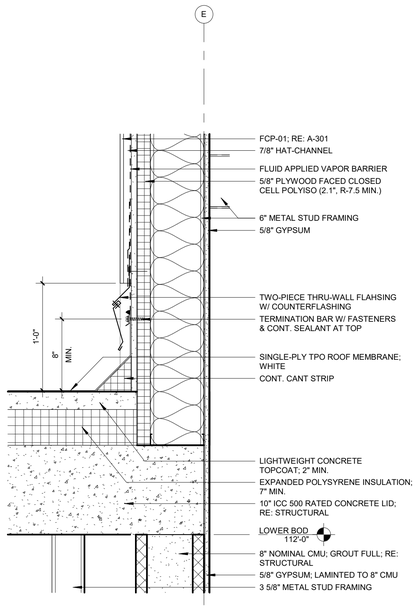
C4 SECTION DETAIL @ KITCHEN HIGH WALL
1 1/2" = 1'-0"



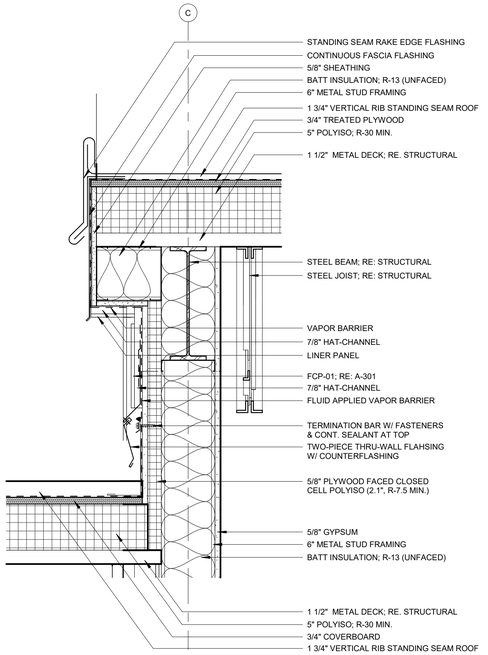
C2 SECTION DETAIL @ RESDIENT CLERESTORY
1 1/2" = 1'-0"



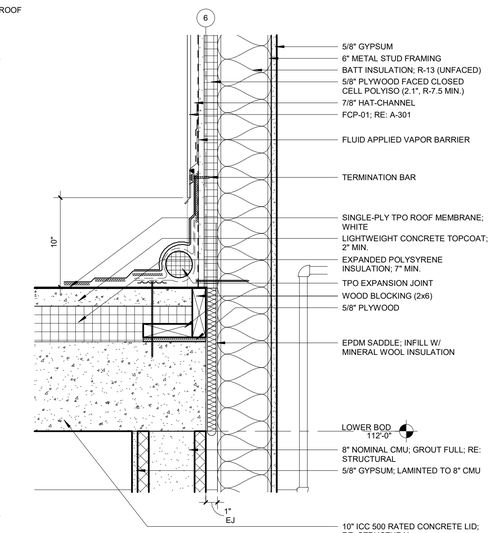
C1 SECTION DETAIL @ PORCH ROOF STEP
1 1/2" = 1'-0"



A3 SECTION DETIAL @ WALL TRANSITION
1 1/2" = 1'-0"



A2 SECTION DETAIL @ LOW ROOF OVERHANG
1 1/2" = 1'-0"



A1 SECTION DETAIL @ TPO EXPANSION JOINT
1 1/2" = 1'-0"

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CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A-422

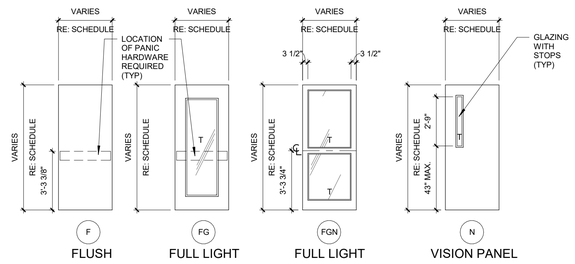
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September 30, 2026

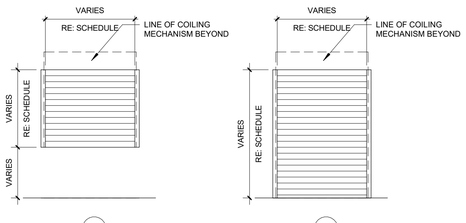
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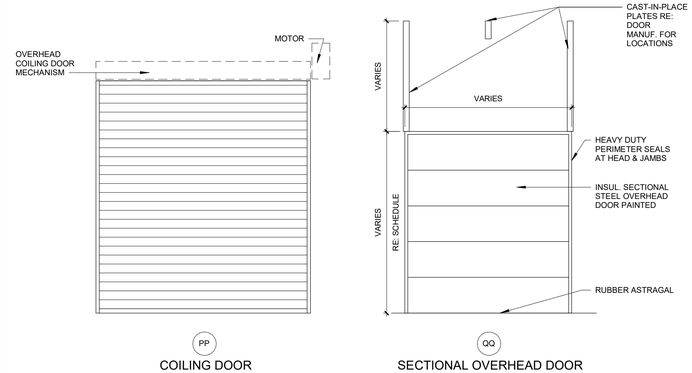
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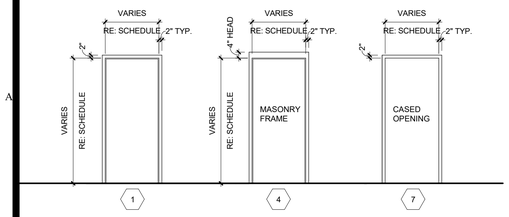
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DOOR ELEVATIONS:







FRAME ELEVATIONS:

DOOR AND HARDWARE NOTES

1. DOOR OPENING DEVICES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST. DOOR KNOBS ARE PROHIBITED.
2. ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL TOOLS, A KEY, SPECIAL KNOWLEDGE OR EFFORT. DOUBLE KEYED DEAD BOLTS ARE PROHIBITED.
3. PROVIDE HARDWARE INCLUDING, BUT NOT LIMITED TO THAT SHOWN IN THE HARDWARE GROUPS FOR THE NORMAL OPERATION AND USE OF EACH DOOR, MAKE RECOMMENDATIONS FOR ADDITIONAL ITEMS IN HARDWARE SUBMITTAL AS REQUIRED.
4. ALL HARDWARE SHALL BE IN COMPLIANCE WITH ADA GUIDELINES AND NATIONAL BUILDERS HARDWARE ASSOCIATION STANDARDS.
5. HARDWARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. HARDWARE: FINISH TO BE BUILDING STANDARD UNLESS NOTED OTHERWISE. COORIDNATE AND VERIFY WITH HOSPITAL FACILITIES REPRESENTATIVE ON ALL HARDWARE PRIOR TO ORDERING.

   CONTRACTOR TO SUBMIT DOOR AND HARDWARE SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO WORK BEING PERFORMED. FAILURE TO SUBMIT DRAWINGS RESULTS IN THE CONTRACTOR ASSUMING ALL RESPONSIBILITY AT THEIR OWN EXPENSE.

DOOR & FRAME MAT'L LEGEND

ALUM	ALUMINUM
HM	HOLLOW METAL
WD	PLASTIC LAMINATE FINISH SOLID CORE WOOD

GLAZING LEGEND

IGU-1	LOW-E COATED INSULATING GLASS UNIT
GL-1	SAFETY GLAZING (TEMPERED)

DOOR SCHEDULE

DOOR #	ROOM NAME	DOOR INFORMATION						FRAME INFORMATION					DOOR HARDWARE ACCESS CONTROL				OPENING DETAIL			
		WIDTH	HEIGHT	NO. OF LEAVES	UNEQUAL LEAF WIDTH	ELEV.	MATL.	ELEV.	MATL.	GLAZING	LABEL (MIN)	HARDWARE SET	CARD READER	CARD READER W/ AUTO OPERATOR	POWER ACTUATOR	WAVE ACTUATOR	HEAD	JAMB	REMARKS	REV #
100	VESTIBULE	7'-0"	3'-0"	1		FG	ALUM	--	ALUM	IGU-1	--	12			●		--	A2/A-522		
101	VESTIBULE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	03	●				A1/A-521	A2/A-521		
102.1	SECURITY CONTROL	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
102.2	SECURITY CONTROL	3'-0"	7'-0"	1		F	WD	1	HM	--	--	03	●				A1/A-521	A2/A-521		
103.1	FAMILY REUNIFICATION	3'-0"	7'-0"	1		F	WD	1	HM	--	--	19					A1/A-521	A2/A-521		
103.2	FAMILY REUNIFICATION	3'-0"	7'-0"	1		FG	ALUM	--	ALUM	IGU-1	--	11		●			--	A2/A-522		
103.3	FAMILY REUNIFICATION	3'-0"	7'-0"	1		F	WD	1	HM	--	45 min	05	●				A1/A-521	A2/A-521		
104	TOILET	3'-0"	7'-0"	1		F	WD	1	HM	--	--	15					A1/A-521	A2/A-521		
105	JAN	3'-0"	7'-0"	1		F	WD	1	HM	--	--	23					A1/A-521	A2/A-521		
106	TOILET	3'-0"	7'-0"	1		F	WD	1	HM	--	--	15					A1/A-521	A2/A-521		
107	TOILET	3'-0"	7'-0"	1		F	WD	1	HM	--	--	15					A1/A-521	A2/A-521		
108	HALL	3'-0"	7'-0"	1		F	WD	1	HM	--	45 min	04	●				A1/A-521	A2/A-521		
109	VESTIBULE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	03	●				A1/A-521	A2/A-521		
110	OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
111	OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
112	OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
113	OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
114	OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
115	OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
116	IT	3'-0"	7'-0"	1		F	WD	1	HM	--	--	23					A1/A-521	A2/A-521		
117	CONFERENCE ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	--	17					A1/A-521	A2/A-521		
119	STAFF RESPITE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	15					A1/A-521	A2/A-521		
120	HALL	3'-0"	7'-0"	1		F	WD	--	HM	--	--	20					A1/A-521	A2/A-521		
121	THERAPY	3'-0"	7'-0"	1		F	WD	--	HM	--	--	20					A1/A-521	A2/A-521		
122	HALL	3'-0"	7'-0"	1		F	WD	--	HM	--	--	20					A1/A-521	A2/A-521		
123.1	CLASSROOM											27					C2/A-521	C3 & C4/A-121	GLASS WALL SYSTEM, RE: SPECS	
123.2	CLASSROOM											27					C2/A-521	C3 & C4/A-121	GLASS WALL SYSTEM, RE: SPECS	
124.1	HALL	3'-0"	7'-0"	1		F	WD	--	HM	--	--	20					A1/A-521	A2/A-521		
124.2	CLASSROOM	7'-0"	3'-0"	1		FG	ALUM	--	ALUM	IGU-1	--	10					--	A2/A-522		
125.1	STORAGE/MECH/MAINT	4'-0"	7'-0"	1		F	WD	1	HM	--	45 min	03	●				A1/A-521	A2/A-521		
125.2	STORAGE/MECH/MAINT	4'-0"	7'-0"	1		F	HM	1	HM	--	--	01	●				--	--		
125.3	STORAGE/MECH/MAINT	10'-0"	10'-0"			PP					--	26					--	--		
126.1	INTAKE/CONTROL	3'-6"	7'-0"	1		F	HM	4	HM	--	--	28	●				AD5/A-522	A5 & B5/A-522		
126.2	INTAKE/CONTROL	3'-0"	7'-0"	1		F	WD	1	HM	--	--	03	●				A1/A-521	A2/A-521		
127	INTAKE/CONTROL	3'-0"	7'-0"	1		F	WD	1	HM	--	--	15					A1/A-521	A2/A-521		
128	INTAKE CORR.	3'-0"	7'-0"	1		F	WD	1	HM	--	--	05	●				A1/A-521	A2/A-521		
129	INTAKE CORR.	3'-0"	7'-0"	1		N	WD	1	HM	GL-1	--	02					A1/A-521	A2/A-521		
130.1	NURSE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	03	●				A1/A-521	A2/A-521		
130.2	NURSE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	21					A1/A-521	A2/A-521		
130.3	INTAKE VEST.	2'-0"	3'-0"			MM											--	--	COILING SHUTTER, RE: SPECS	
131	INTAKE VEST.	4'-0"	9'-0"			NN						26					A5/A-521	A3/A-521	STORM SHUTTER, RE: SPECS	
132	PERSONAL BELONGINGS	3'-0"	7'-0"	1		F	WD	1	HM	--	--	22					A1/A-521	A2/A-521		
134	WORKROOM	3'-0"	7'-0"	1		FG	ALUM	--	ALUM	GL-1	--	--					--	A2/A-522		
136	DISH/WASTE	3'-0"	7'-0"	1		F	WD	1	HM		--	18					A1/A-521	A2/A-521		
139.1	STORAGE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	24					A1/A-521	A2/A-521		
139.2	KITCHEN	3'-0"	3'-0"			MM						26					--	--	COILING SHUTTER, RE: SPECS	
140	RESIDENT ROOM 1	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
141	RESIDENT ROOM 2	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
142	RESIDENT ROOM 3	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
143	RESIDENT ROOM 4	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
146	RESIDENT ROOM 5	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
147	RESIDENT ROOM 6	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
148	RESIDENT ROOM 7	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
149	DECOMPRESSION	3'-0"	7'-0"	1		N	WD	1	HM	GL-1	--	16					A1/A-521	A2/A-521		
150	RESIDENT ROOM 8	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
151	RESIDENT ROOM 9	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
152	RESIDENT ROOM 10	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
153	RESIDENT ROOM 11	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
154	RESIDENT ROOM 12	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
155	RESIDENT ROOM 13	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
156	RESIDENT ROOM 14	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
157	RESIDENT ROOM 15	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
161.1	VESTIBULE	3'-0"	7'-0"	1		FGN	WD	1	HM	GL-1	--	07				●	A1/A-521	A2/A-521		
161.2	VESTIBULE	3'-0"	7'-0"	1		FG	ALUM	--	ALUM	IGU-1	--	09		●			--	A2/A-522		
162	RESIDENT ROOM 16 _ACCESS	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
163	RESIDENT ROOM 17	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
164	RESIDENT ROOM 18	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
165	RESIDENT ROOM 19	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
166	RESIDENT ROOM 20	3'-0"	7'-0"	1		F	WD	1	HM	--	20 min	14					A1/A-521	A2/A-521		
169.1	VESTIBULE	3'-0"	7'-0"	1		FG	ALUM	--	ALUM	GL-1	--	06				●	--	A2/A-522		
169.2	VESTIBULE	3'-0"	7'-0"	1		FG	ALUM	--	ALUM	IGU-1	--	08		●			--	A2/A-522		
173.1	MAINTENANCE SHED	4'-0"	7'-0"	1		F	WD	1	HM	--	--	24A					--	--		
173.2	MAINTENANCE SHED	9'-0"	9'-0"	--		QQ	ALUM	--	--	--	--	26					--	--		
173.3	MAINTENANCE SHED	9'-0"	9'-0"	--		QQ	ALUM	--	--	--	--	26					--	--		
176																	--	--	ROOF HATCH, RE:SPECS	

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T: 816.221.1411

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
DOOR SCHEDULE & DOOR/FRAME TYPES

SHEET NUMBER:
A-501

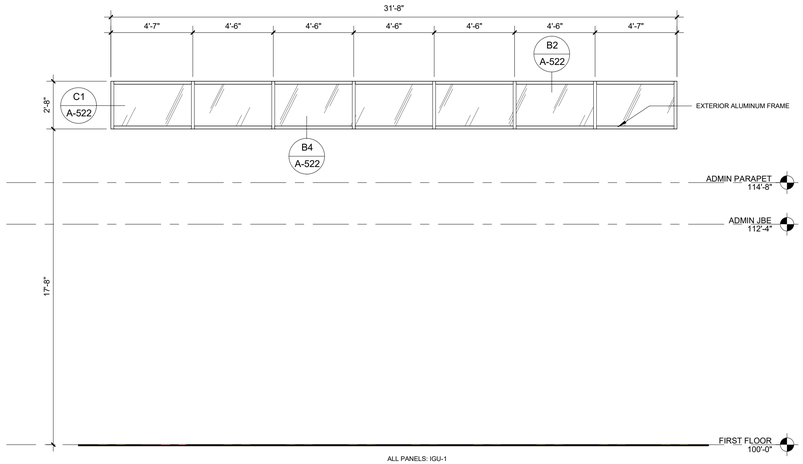
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September 30, 2026

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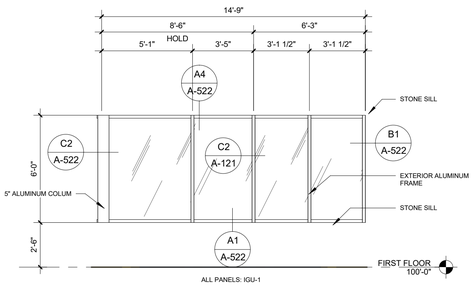
Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

GLAZING LEGEND	
IGU-1	LOW-E COATED INSULATING GLASS UNIT
GL-1	SAFETY GLAZING (TEMPERED)

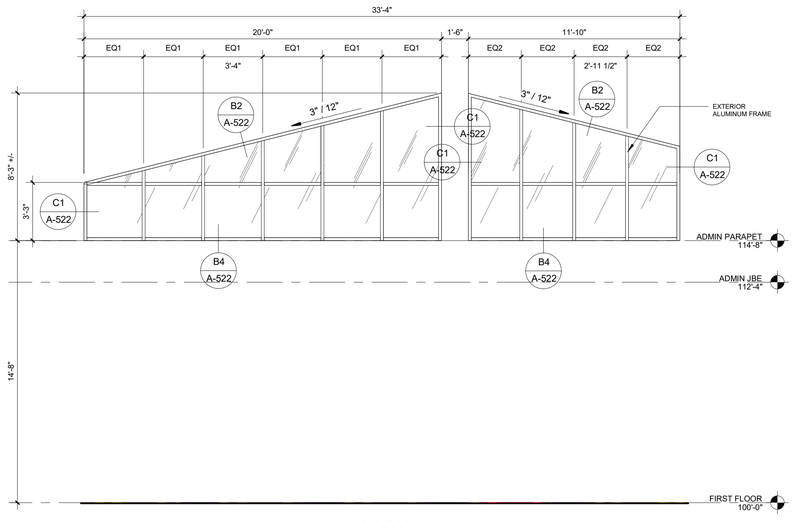


ALL PANELS: IGU-1

17 WINDOW ELEVATION - Q
1/4" = 1'-0"

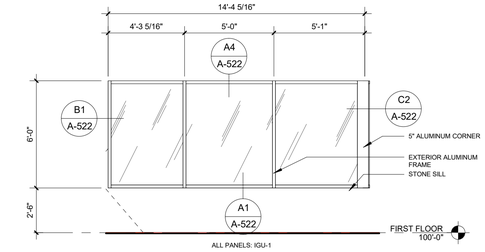


ALL PANELS: IGU-1



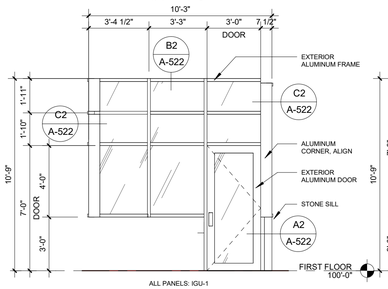
ALL PANELS: IGU-1

16 WINDOW ELEVATION - S / T
1/4" = 1'-0"



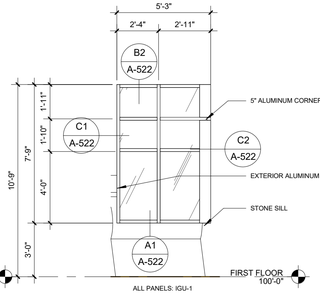
ALL PANELS: IGU-1

14 WINDOW ELEVATION - P
1/4" = 1'-0"



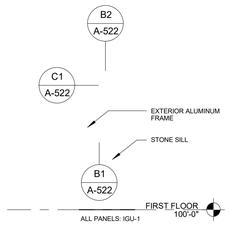
ALL PANELS: IGU-1

18 WINDOW ELEVATION - R
1/4" = 1'-0"



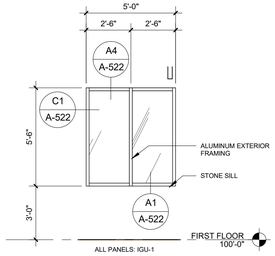
ALL PANELS: IGU-1

12 WINDOW ELEVATION - M
1/4" = 1'-0"



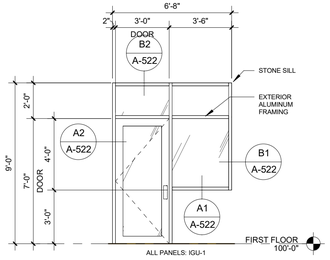
ALL PANELS: IGU-1

11 WINDOW ELEVATION - L
1/4" = 1'-0"



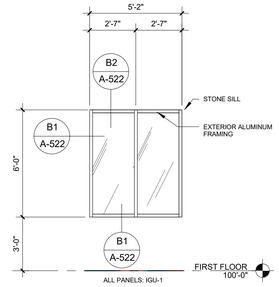
ALL PANELS: IGU-1

10 WINDOW ELEVATION - K
1/4" = 1'-0"



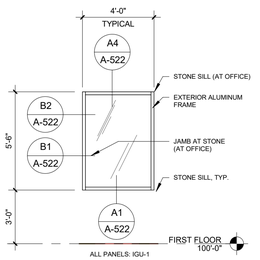
ALL PANELS: IGU-1

9 WINDOW ELEVATION - J
1/4" = 1'-0"



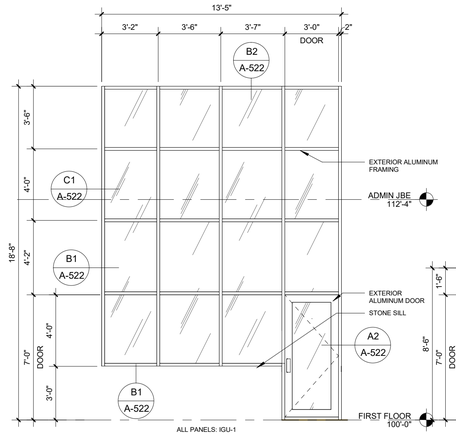
ALL PANELS: IGU-1

8 WINDOW ELEVATION - H
1/4" = 1'-0"



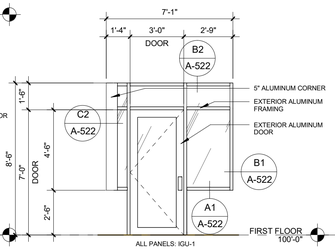
ALL PANELS: IGU-1

7 WINDOW ELEVATION - G
1/4" = 1'-0"



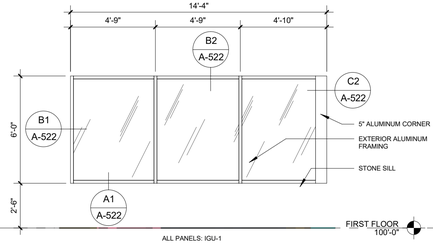
ALL PANELS: IGU-1

6 WINDOW ELEVATION - F
1/4" = 1'-0"



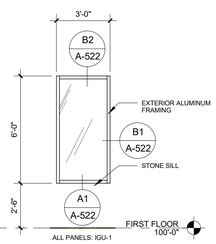
ALL PANELS: IGU-1

5 WINDOW ELEVATION - E
1/4" = 1'-0"



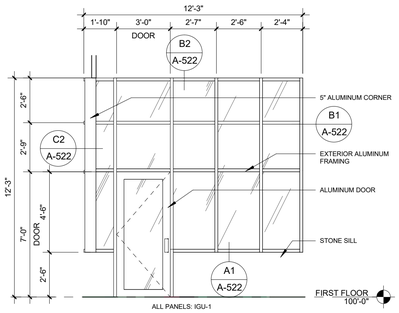
ALL PANELS: IGU-1

4 WINDOW ELEVATION - D
1/4" = 1'-0"



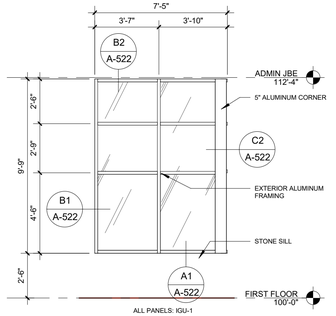
ALL PANELS: IGU-1

3 WINDOW ELEVATION - C
1/4" = 1'-0"



ALL PANELS: IGU-1

2 WINDOW ELEVATION - B
1/4" = 1'-0"



ALL PANELS: IGU-1

1 WINDOW ELEVATION - A
1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
STATE OF MISSOURI
9/30/2026

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Missouri: #000958

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JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
GLAZING ELEVATIONS

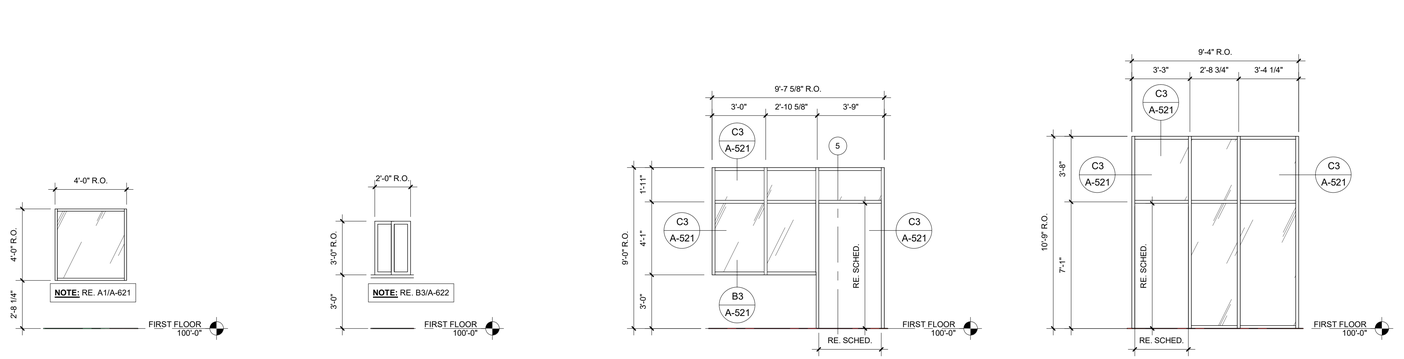
SHEET NUMBER:
A-511

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September 30, 2026

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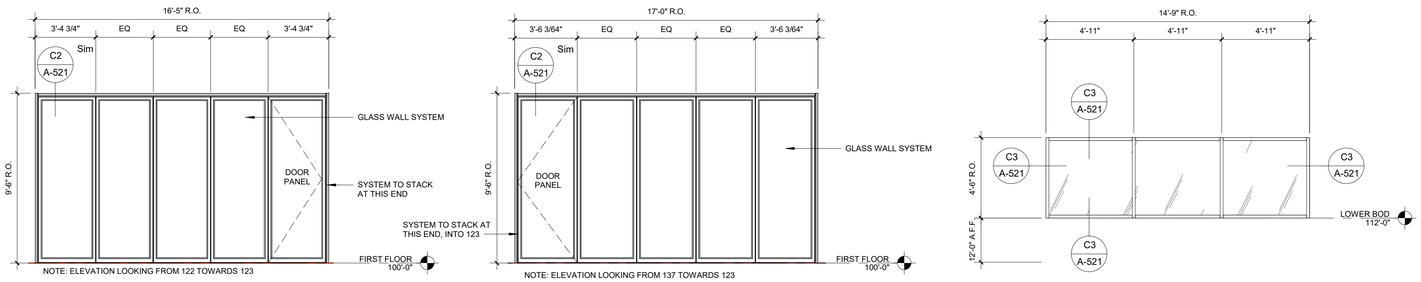


7 WINDOW ELEVATION - AA
1/4" = 1'-0"

6 WINDOW ELEVATION - Z
1/4" = 1'-0"

5 WINDOW ELEVATION - Y
1/4" = 1'-0"

4 WINDOW ELEVATION - X
1/4" = 1'-0"



3 WINDOW ELEVATION - W
1/4" = 1'-0"

2 WINDOW ELEVATION - V
1/4" = 1'-0"

1 WINDOW ELEVATION - U
1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003948
9/30/2026

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: Designer

SHEET TITLE:
INTERIOR GLAZING ELEVATIONS

SHEET NUMBER:
A-512

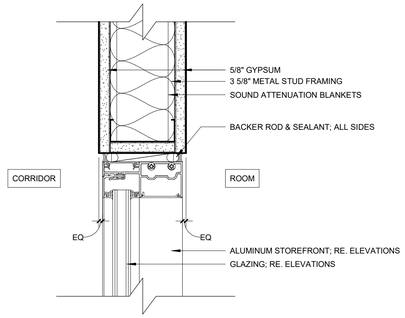
65 OF 133

September 30, 2026

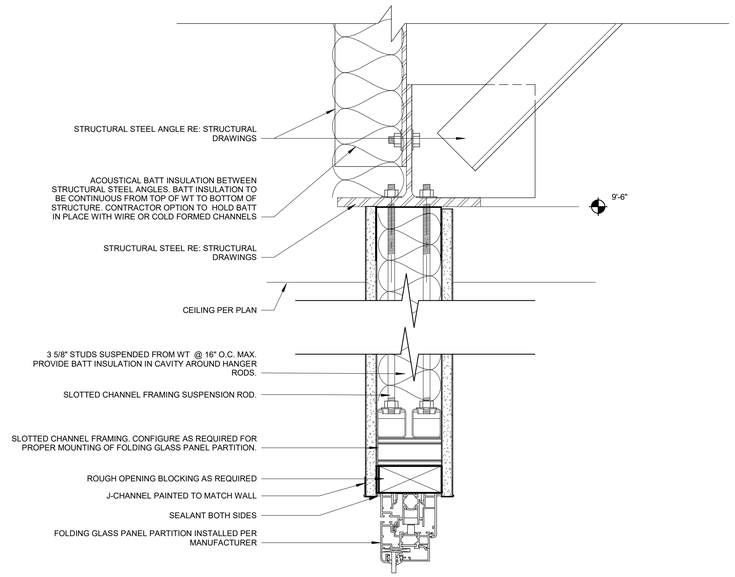
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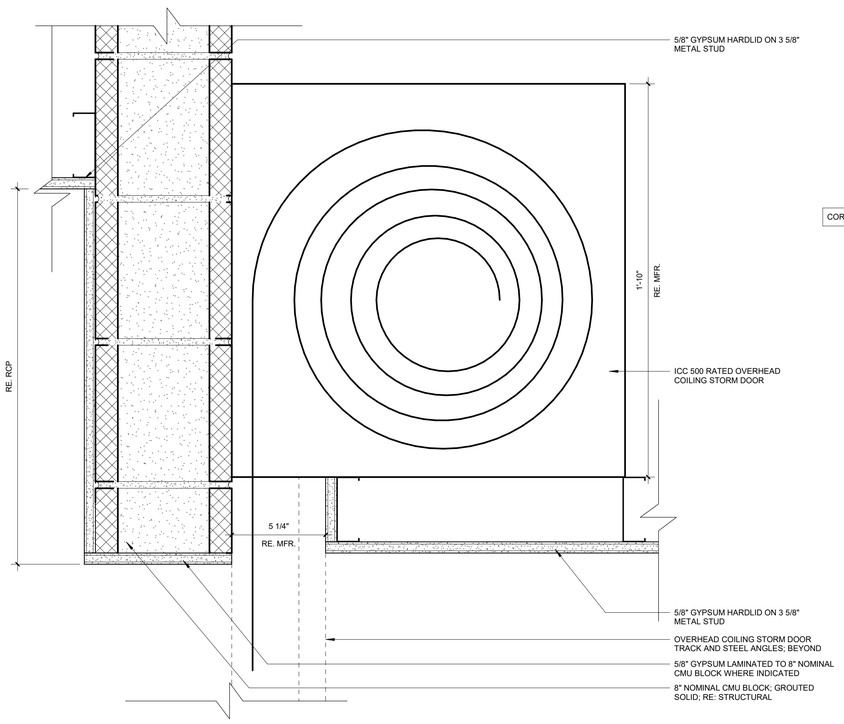
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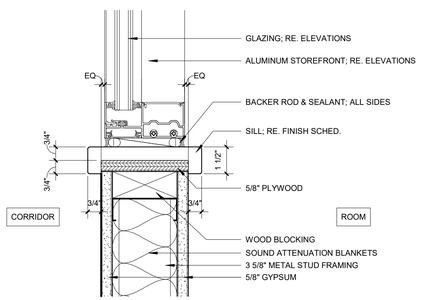
C3 HEAD/SIDE/JAMB - INTERIOR STOREFRONT
3" = 1'-0"



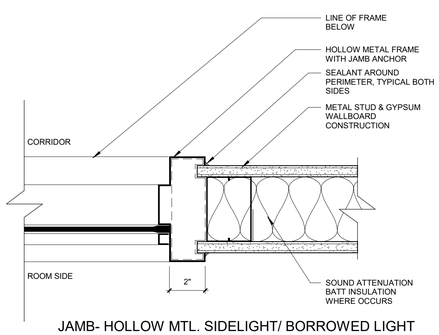
C2 DETAIL AT GLASS OPERABLE PARTITION
3" = 1'-0"



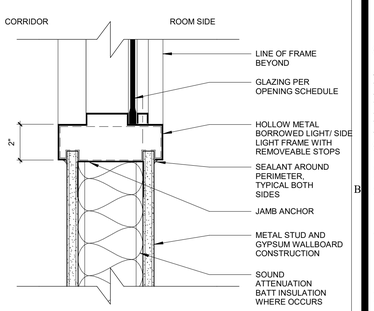
A5 HEAD - OHC STORM DOOR
3" = 1'-0"



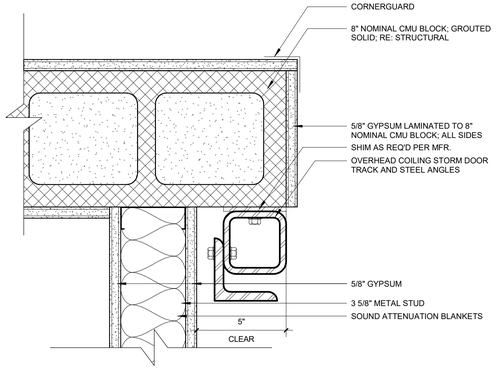
B3 Detail 1
3" = 1'-0"



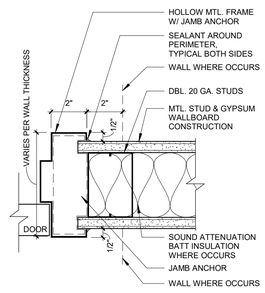
B2 JAMB- HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT FRAME
3" = 1'-0"



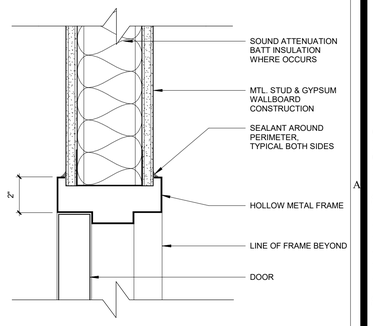
B1 SILL- HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT FRAME
3" = 1'-0"



A3 JAMB- OHC STORM DOOR
3" = 1'-0"



A2 TYPICAL JAMB - HOLLOW METAL FRAME
3" = 1'-0"



A1 TYPICAL HEAD - HOLLOW METAL DOOR FRAME
3" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003948
NOTARY PUBLIC
9/30/2026

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ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
INTERIOR FRAME/JAMB DETAILS

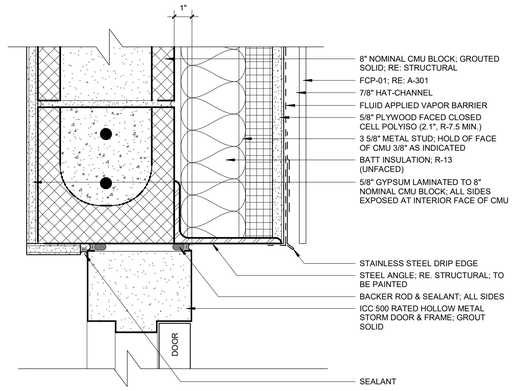
SHEET NUMBER:
A-521

66 OF 133

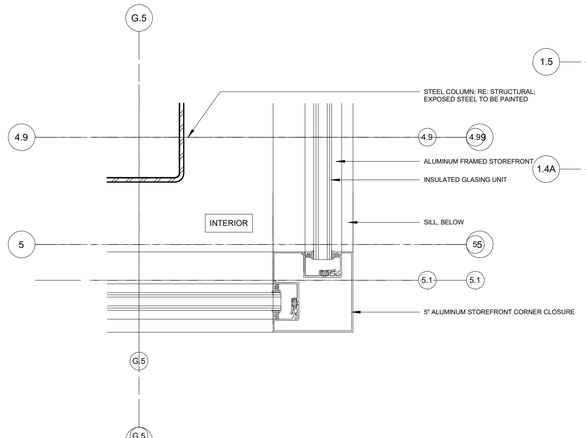
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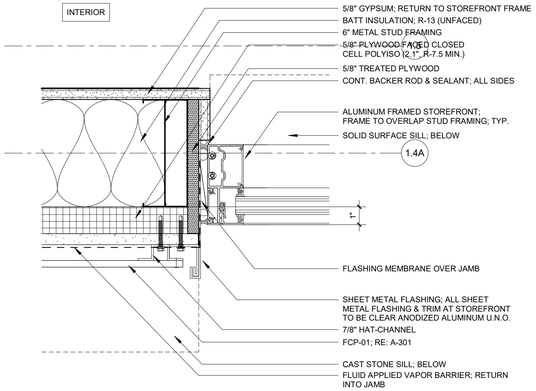
Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt



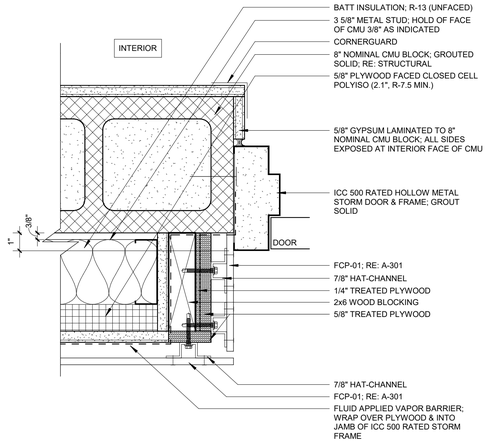
D5 HEAD - JAMB HOLLOW MTL. STORM DOOR
3" = 1'-0"



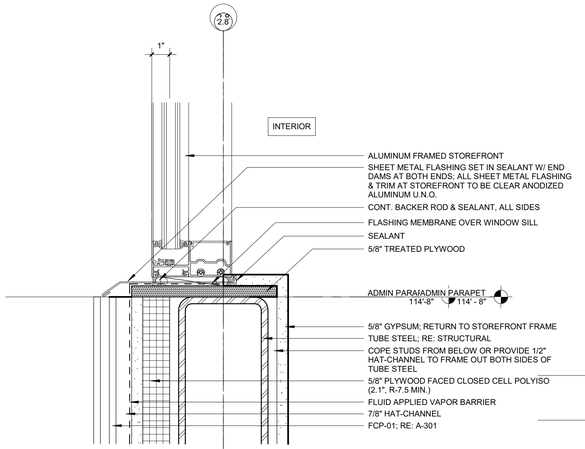
C2 ALUMINUM JAMB AT CORNER
3" = 1'-0"



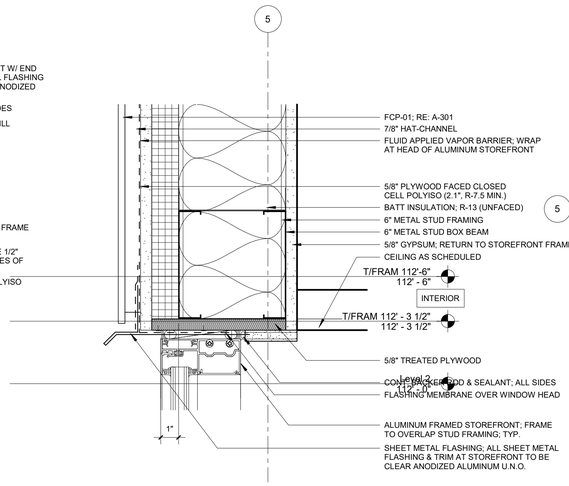
C1 ALUMINUM JAMB AT FCP
3" = 1'-0"



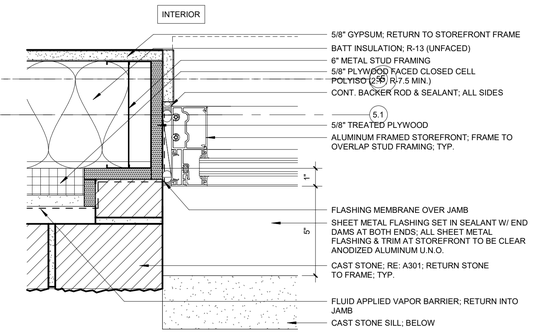
B5 JAMB- HOLLOW MTL. STORM DOOR @ FCP
3" = 1'-0"



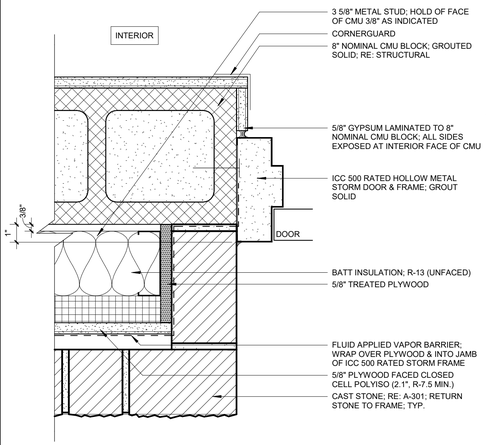
B4 ALUMINUM SILL AT FCP
3" = 1'-0"



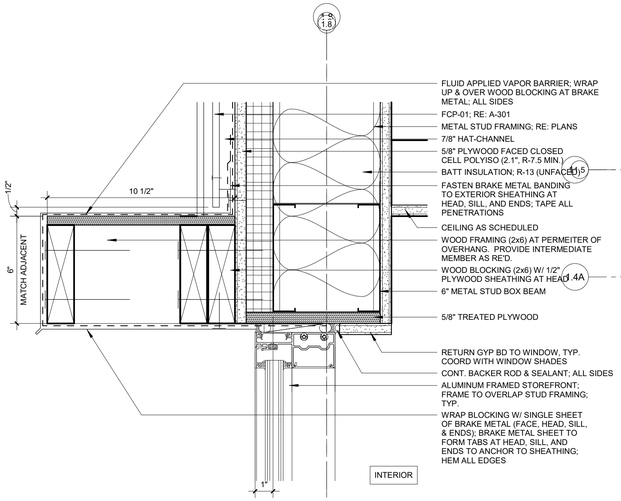
B2 ALUMINUM HEAD AT FCP
3" = 1'-0"



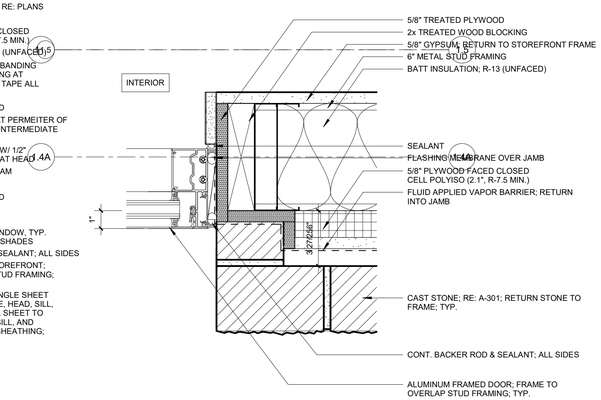
B1 ALUMINUM JAMB AT STONE
3" = 1'-0"



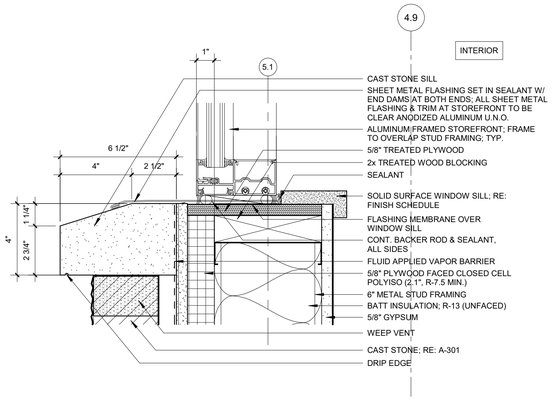
A5 JAMB- HOLLOW MTL. STORM DOOR @ STONE
3" = 1'-0"



A4 ALUMINUM HEAD WITH SHADE
3" = 1'-0"



A2 ALUMINUM DOOR AT STONE
3" = 1'-0"



A1 ALUMINUM SILL AT STONE
3" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
STATE OF MISSOURI
9/30/2026

ACI BOLAND ARCHITECTS
ACI/Boland, Inc.
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Kansas City, MO 64108
T: 816.763.9600
Licensee's Certificate of Authority Number:
Missouri: #000958

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MEP
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Kansas City, MO, 64108
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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KNS
CHECKED BY: JS, DS
DESIGNED BY: ACI BOLAND

SHEET TITLE:
EXTERIOR FRAME/JAMB DETAIL

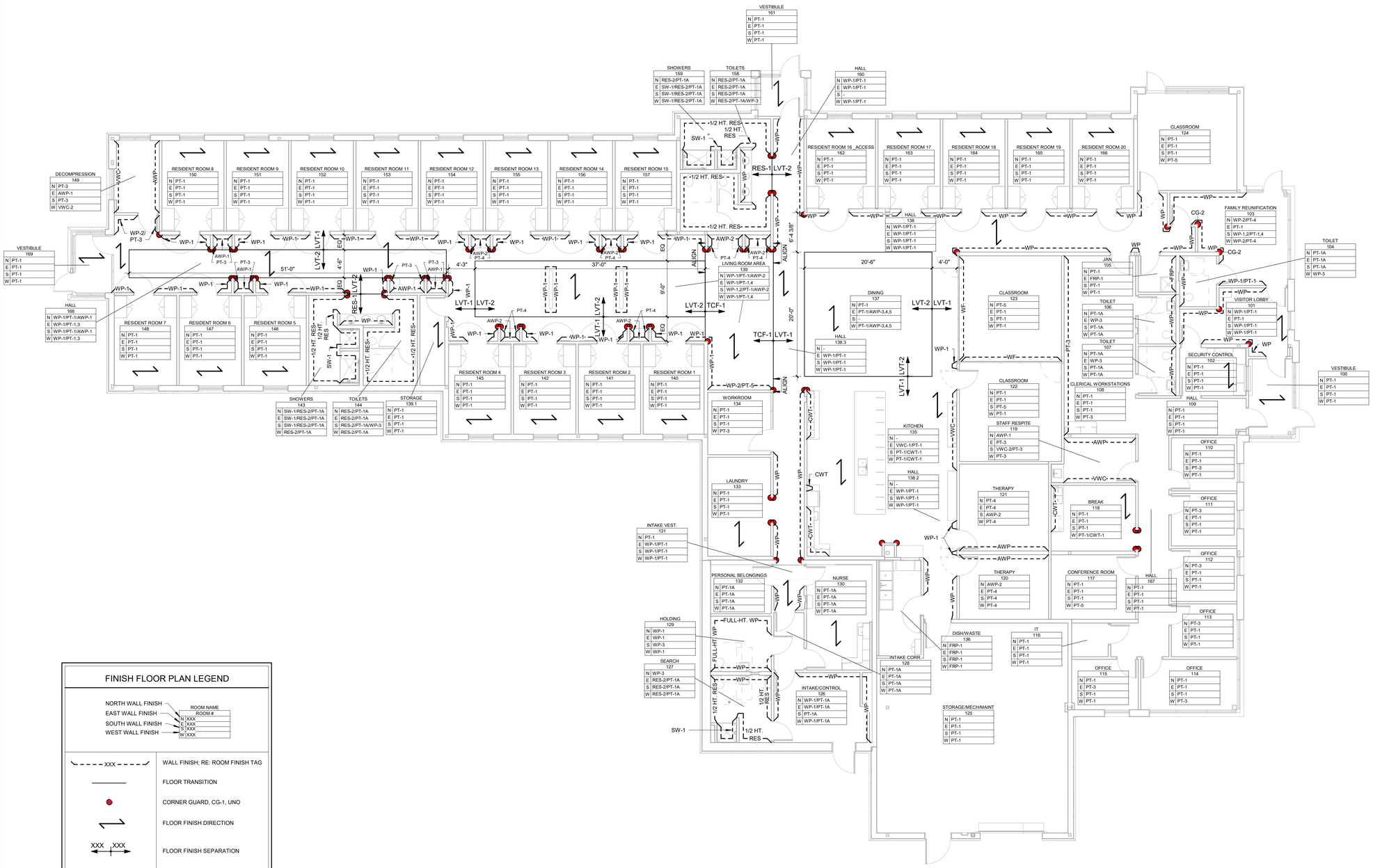
SHEET NUMBER:
A-522

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September 30, 2026

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9/30/2026 2:14:53 PM



FINISH FLOOR PLAN LEGEND

NORTH WALL FINISH
EAST WALL FINISH
SOUTH WALL FINISH
WEST WALL FINISH

ROOM NAME / ROOM #	
N	XXX
S	XXX
S	XXX
W	XXX

XXX	WALL FINISH; RE: ROOM FINISH TAG
	FLOOR TRANSITION
	CORNER GUARD, CG-1, UNO
	FLOOR FINISH DIRECTION
XXX XXX	FLOOR FINISH SEPARATION

1. FOR ALL FLOORING TRANSITIONS, REFER TO TYPICAL TRANSITION DETAILS ON SHEET A-611, UNLESS OTHERWISE NOTED ON THIS PLAN.
2. THIS FINISH PLAN IS TO BE USED FOR ADDITIONAL LOCATION CLARIFICATION OF FINISHES NOTED IN FINISH SCHEDULE.
3. RE: TYP. WALL PROTECTION/CORNER GUARD DETAIL ON SHEET A-631.

A3 OVERALL FINISH FLOOR PLAN
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
STATE OF MISSOURI
9/30/2026

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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: ACI BOLAND

SHEET TITLE:
FIRST FLOOR FINISH PLAN

SHEET NUMBER:
A-601

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September 30, 2026

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Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

ROOM FINISH SCHEDULE

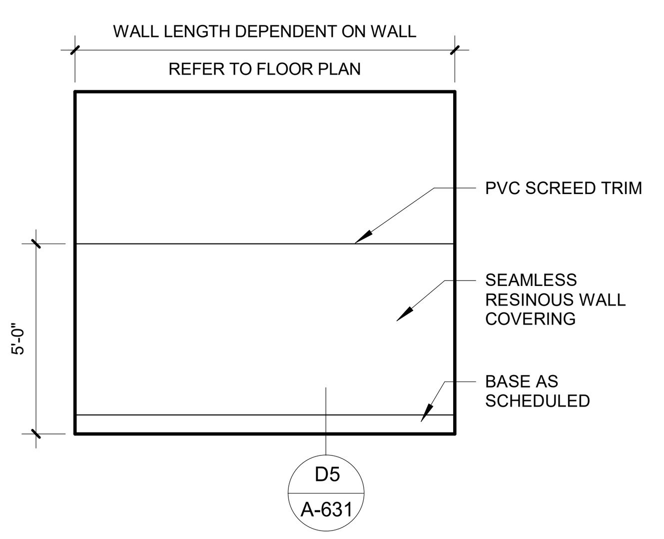
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALLS: NORTH	WALLS: EAST	WALLS: SOUTH	WALLS: WEST	CASEWORK: BASE CABINETS	CASEWORK: WALL CABINETS	CASEWORK: COUNTERTOPS	CASEWORK: SINKS	CEILING	NOTES	REV #
100	VESTIBULE	WOC-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	SSF-1	-	ACT-5		
101	VISITOR LOBBY	LVT-1	RB-1	WP-1/PT-1	PT-1	WP-1/PT-1	WP-1/PT-1	-	-	-	-	ACT-5		
102	SECURITY CONTROL	LVT-1	RB-2	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	SSF-1	-	ACT-1		
103	FAMILY REUNIFICATION	TCF-1	RB-1	WP-2/PT-4	PT-1	WP-1,2/PT-1,4	WP-2/PT-4	-	-	-	-	ACT-4		
104	TOILET	RES-1	IB-1	PT-1A	PT-1A	PT-1A	WP-3	-	-	-	-	GYP/PT-1A	3	
105	JAN	CS-1	RB-2	PT-1	FRP-1	PT-1	PT-1	-	-	-	-	EXPOSED		
106	TOILET	RES-1	IB-1	PT-1A	WP-3	PT-1A	PT-1A	-	-	-	-	ACT-1	3	
107	TOILET	RES-1	IB-1	PT-1A	WP-3	PT-1A	PT-1A	-	-	-	-	ACT-1	3	
108	CLERICAL WORKSTATIONS	TCF-1	RB-2	PT-1	PT-1	PT-1	PT-3	PLAM-1	PLAM-1	SSF-1	-	ACT-1		
109	HALL	TCF-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1		
110	OFFICE	TCF-1	RB-2	PT-1	PT-1	PT-3	PT-1	-	-	-	-	ACT-1		
111	OFFICE	TCF-1	RB-2	PT-3	PT-1	PT-1	PT-1	-	-	-	-	ACT-1		
112	OFFICE	TCF-1	RB-2	PT-3	PT-1	PT-1	PT-1	-	-	-	-	ACT-1		
113	OFFICE	TCF-1	RB-2	PT-3	PT-1	PT-1	PT-1	-	-	-	-	ACT-1		
114	OFFICE	TCF-1	RB-2	PT-1	PT-1	PT-1	PT-3	-	-	-	-	ACT-1		
115	OFFICE	TCF-1	RB-2	PT-1	PT-3	PT-1	PT-1	-	-	-	-	ACT-1		
116	IT	CS-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	EXPOSED		
117	CONFERENCE ROOM	TCF-1	RB-1	PT-1	PT-1	PT-1	PT-5	-	-	-	-	ACT-2,4		
118	BREAK	LVT-1	RB-2	PT-1	PT-1	PT-1	PT-1/CWT-1	PLAM-1	PLAM-1	SSF-1	S-2	ACT-1		
119	STAFF RESPITE	TCF-1	RB-2	AWP-1	PT-3	VWC-2/PT-3	PT-3	PLAM-1	-	SSF-1	S-1	GYP W/ WVW-1/PT-1C		
120	THERAPY	TCF-1	RB-1	AWP-2	PT-4	PT-4	PT-4	-	-	-	-	ACT-5		
121	THERAPY	TCF-1	RB-1	PT-4	PT-4	AWP-2	PT-4	-	-	-	-	ACT-5		
122	CLASSROOM	TCF-1	RB-1	PT-1	PT-1	PT-5	PT-1	-	-	-	-	ACT-2		
123	CLASSROOM	TCF-1	RB-1	PT-5	PT-1	PT-1	PT-1	-	-	-	-	ACT-2	4	
124	CLASSROOM	TCF-1	RB-1	PT-1	PT-1	PT-1	PT-5	-	-	-	-	EXPOSED/PT-1B		
125	STORAGE/MECH/MAINT	CS-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	EXPOSED/PT-1B		
126	INTAKE/CONTROL	RES-1	IB-1	WP-1/PT-1A	WP-1/PT-1A	PT-1A	WP-1/PT-1A	-	-	-	-	GYP/PT-1A		
127	SEARCH	RES-1	IB-1/SB-1	WP-3	RES-2/PT-1A	RES-2/PT-1A	RES-2/PT-1A	-	-	SSF-1	-	GYP/PT-1A	2,3	
128	INTAKE CORR.	RES-1	IB-1	PT-1A	PT-1A	PT-1A	PT-1A	-	-	-	-	GYP/PT-1A		
129	HOLDING	RES-1	IB-1	WP-1	WP-1	WP-3	WP-1	-	-	-	-	GYP/PT-1A	3	
130	NURSE	LVT-1	RB-1	PT-1A	PT-1A	PT-1A	PT-1A	PLAM-1	PLAM-1	SSF-1	IS-1	GYP/PT-1A		
131	INTAKE VEST.	LVT-1	RB-1	PT-1	WP-1/PT-1	WP-1/PT-1	WP-1/PT-1	-	-	-	-	GYP/PT-1A		
132	PERSONAL BELONGINGS	RES-1	IB-1	PT-1A	PT-1A	PT-1A	PT-1A	-	-	-	-	GYP/PT-1A		
133	LAUNDRY	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-4		
134	WORKROOM	TCF-1	RB-1	PT-1	PT-1	PT-1	PT-3	-	-	-	-	ACT-2		
135	KITCHEN	LVT-1	RB-1	-	VWC-1/PT-1	PT-1/CWT-1	PT-1/CWT-1	PLAM-1	PLAM-1	USC-1	S-1,2	GYP/PT-1C	1	
136	DISH/WASTE	RES-1	IB-1	FRP-1	FRP-1	FRP-1	FRP-1	PLAM-1	-	-	-	ACT-3		
137	DINING	LVT-1,2	RB-1	PT-1	PT-1/AWP-3,4,5	-	PT-1/AWP-3,4,5	-	-	-	-	EXPOSED/PT-1B		
138	HALL	LVT-1	RB-1	WP-1/PT-1	WP-1/PT-1	WP-1/PT-1	WP-1/PT-1	-	-	-	-	EXPOSED/PT-1B		
138.2	HALL	LVT-1	RB-1	-	WP-1/PT-1	WP-1/PT-1	WP-1/PT-1	-	-	-	-	GYP/PT-1C		
138.3	HALL	LVT-1	RB-1	-	WP-1/PT-1	WP-1/PT-1	WP-1/PT-1	-	-	-	-	EXPOSED W/ PT-1B/GYP W/ PT-1C		
139	LIVING ROOM AREA	LVT-1,2/ TCF-1	RB-1	WP-1/PT-1/AWP-2	WP-1/PT-1,4	WP-1,2/PT-1/AWP-2	WP-1/PT-1,4	PLAM-1	-	SSF-1	-	EXPOSED/PT-1B,1C, 4C/ACT-2/GYP W/ VWV-1	7	
139.1	STORAGE	LVT-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	GYP/PT-1C		
140	RESIDENT ROOM 1	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
141	RESIDENT ROOM 2	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
142	RESIDENT ROOM 3	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
143	SHOWERS	RES-1	IB-1/SB-1,2	SW-1/RES-2/PT-1A	SW-1/RES-2/PT-1A	SW-1/RES-2/PT-1A	RES-2/PT-1A	-	-	-	-	GYP/PT-1A	2	
144	TOILETS	RES-1	IB-1	RES-2/PT-1A	RES-2/PT-1A	RES-2/PT-1A/WP-3	RES-2/PT-1A	PLAM-1	-	SSF-1	IS-2	GYP/PT-1A	2,3	
145	RESIDENT ROOM 4	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
146	RESIDENT ROOM 5	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
147	RESIDENT ROOM 6	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
148	RESIDENT ROOM 7	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
149	DECOMPRESSION	TCF-1	RB-1	PT-3	AWP-1	PT-3	VWC-2	-	-	-	-	GYP W/ WVW-1/PT-1C		
150	RESIDENT ROOM 8	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
151	RESIDENT ROOM 9	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
152	RESIDENT ROOM 10	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
153	RESIDENT ROOM 11	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
154	RESIDENT ROOM 12	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
155	RESIDENT ROOM 13	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
156	RESIDENT ROOM 14	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
157	RESIDENT ROOM 15	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
158	TOILETS	RES-1	IB-1	RES-2/PT-1A	RES-2/PT-1A	RES-2/PT-1A	RES-2/PT-1A/WP-3	PLAM-1	-	SSF-1	IS-2	GYP/PT-1A	2,3	
159	SHOWERS	RES-1	IB-1/SB-1,2	RES-2/PT-1A	SW-1/RES-2/PT-1A	SW-1/RES-2/PT-1A	SW-1/RES-2/PT-1A	-	-	-	-	GYP/PT-1A	2	
160	HALL	LVT-1	RB-1	WP-1/PT-1	WP-1/PT-1	-	WP-1/PT-1	-	-	-	-	GYP/PT-1C		
161	VESTIBULE	WOC-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	GYP/PT-1C		
162	RESIDENT ROOM 16 _ACCESS	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
163	RESIDENT ROOM 17	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
164	RESIDENT ROOM 18	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
165	RESIDENT ROOM 19	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
166	RESIDENT ROOM 20	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	PLAM-1	-	ACT-4		
167	HALL	TCF-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1		
168	HALL	LVT-1,2	RB-1	WP-1/PT-1/AWP-1	WP-1/PT-1,3	WP-1/PT-1/AWP-1	WP-1/PT-1,3	PLAM-1	-	-	-	ACT-2/GYP/PT-3C		
169	VESTIBULE	WOC-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	GYP/PT-1C		
178	HALL	LVT-1,2	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	-	-	-	EXPOSED/PT-1B		

GENERAL ROOM FINISH SCHEDULE NOTES

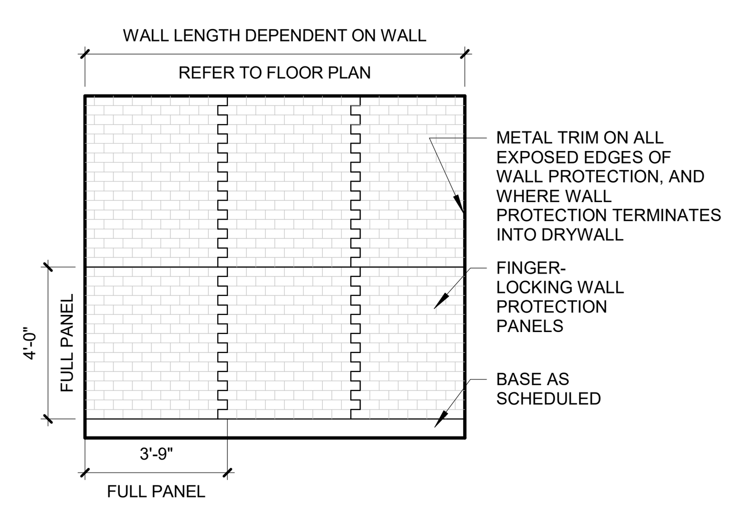
A	REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES, WALL PROTECTION, CORNER GUARDS, WINDOW TREATMENTS, FLOOR FINISH APPLICATION AND LOCATIONS
B	REFER TO TYPICAL ELEVATION OF WALL PROTECTION/CORNER GUARD ON SHEET A-631 FOR INSTALLATION HEIGHTS. WALL PROTECTION SHALL NOT BE INSTALLED ON EXTERIOR WALLS UNO.
C	ALL SOLID WOOD, WOOD VENEER, AND PLASTIC LAMINATE GRAIN SHALL BE VERTICALLY ORIENTED UNLESS OTHERWISE NOTED
D	DOOR FRAMES, HOLLOW METAL WINDOW FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED
E	ALL FACES AND UNDERSIDES OF SOFFITS AND HEADERS TO BE PT-1C UNLESS OTHERWISE NOTED
F	WALL EXPANSION JOINTS TO BE PT-1 UNLESS OTHERWISE NOTED
G	ALL ELECTRICAL PANELS AND METAL GRILLES SHALL BE PTD TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED
H	ALL COLUMN SURROUND FINISHES TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED
I	WHERE A WALL IS INDICATED TO HAVE PARTIAL OR FULL HT WALL PROTECTION, THE ENTIRE WALL IS TO BE PTD PRIOR TO WALL PROTECTION INSTALLATION
J	EXTEND ALL FINISHES BENEATH, BEHIND, AROUND ALL CASEWORK, EQUIPMENT, SIGNAGE, ETC
K	ALL WINDOW SILLS TO BE SSF-2
L	ALL SST SINKS, RE: MEP
M	SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL.
N	NO IRREGULARITIES OR IMPERFECTIONS SHALL BE PRESENT IN ANY OF THE MATERIAL BEING INSTALLED. IF SUCH ITEMS ARE IDENTIFIED DURING APPLICATION, WORK SHALL BE STOPPED AND THE ARCHITECT NOTIFIED.
O	PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.
P	FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.
Q	ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS.
R	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
S	ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT.
T	SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.

SPECIFIC ROOM FINISH SCHEDULE NOTES

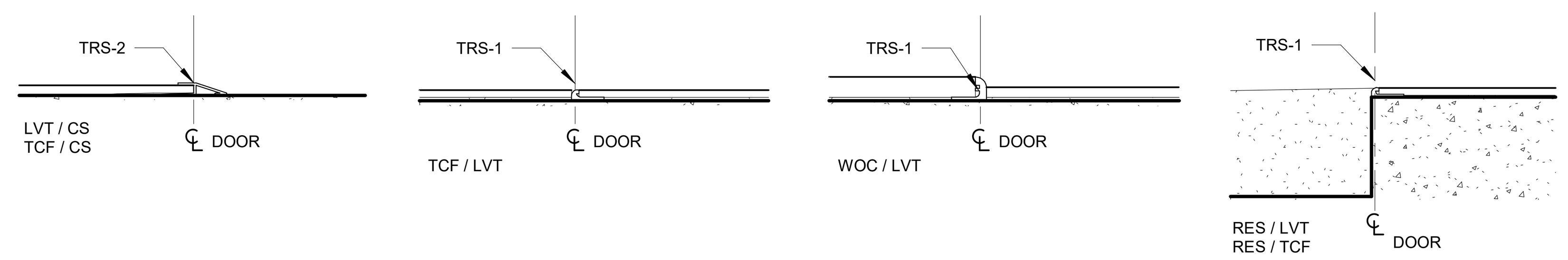
1	S-2 TO BE SINK AT THE ISLAND.
2	REFER TO TYPICAL ELEVATION OF PARTIAL HEIGHT RESINOUS WALL COVERING ON THIS SHEET.
3	REFER TO TYPICAL ELEVATION OF WP-3 PANEL LAYOUT ON THIS SHEET.
4	INSTALL WINDOW FILM ON GLASS OPERABLE PARTITION, RE: FINISH PLAN.



B5 TYP- ELEV- OF RESINOUS WALL COVERING WAINSCOT
1/4" = 1'-0"



A5 TYPICAL ELEV- OF TILE-LOOK WALL PROTECTION PANEL LAYOUT
1/4" = 1'-0"



A4 TRANSITION STRIP DETAILS
6" = 1'-0"

INTERIOR FINISH LEGEND

MARK	ITEM	MANUFACTURER	MODEL/ PATTERN	COLOR	SIZE	REMARKS	REV #
FLOOR							
CS-1	SEALED CONCRETE	PER SPECIFICATIONS	PER SPECIFICATIONS	-	-	REFER TO ARCHITECTURAL SPEC	
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	IN UNISON	SUMMIT	5MM THICK; 9" X 36"	ASHLAR INSTALLATION	
LVT-2	LUXURY VINYL TILE	SHAW CONTRACT	CROSSING PATHS	SUMMIT	5MM THICK; 18" X 18"	MONOLITHIC INSTALLATION	
RES-1	SEAMLESS RESINOUS FLOOR COVERING	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	S#0821-724TG	-	DESCO CO-POLYMER; 16 OZ. TEXTURE	
TCF-1	TEXTILE COMPOSITE FLOORING	J+J FLOORING	NETWORK 1842	CYBER 2853	24" X 24"	ASHLAR INSTALLATION	
TRS-1	TRANSITION STRIP	SCHLUTER	SCHIENE	SATIN ANODIZED ALUMINUM	AE_45; AE_70	RE: TRANSITION DETAILS	
TRS-2	TRANSITION STRIP	SCHLUTER	VINPRO U	BRUSHED CHROME ANODIZED ALUMINUM	VPU 50 _ACGB	RE: TRANSITION DETAILS	
WOC-1	WALK-OFF CARPET	MATTER SURFACES	TRILOGY TILE	ABALONE	20" X 20"	ASHLAR INSTALLATION	
BASE							
IB-1	INTEGRAL BASE	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	S#0821-724TG	6" COVE	DESCO CO-POLYMER; 16 OZ. TEXTURE. TO BE USED W/ RES-1. USE PVC SCREED TRIM AT TOP OF COVE IN LIEU OF METAL TRIM	
RB-1	RESILIENT BASE	JOHNSONITE	REVEAL MW-32-F6 PROFILE	PEBBLE WG	6"	PICK-PROOF CAULKING TO BE APPLIED AT THE TOP EDGE	
RB-2	RESILIENT BASE	JOHNSONITE	4" BASEWORKS THERMOSET RUBBER TS	PEBBLE WG	4" COVE	ROLLED GOODS	
WALL							
AWP-1	ACOUSTIC WALL PANEL	KIREI	EMBOSSED PANELS, ZEN	VANILLA 028	.35" THICK	-	
AWP-2	ACOUSTIC WALL PANEL	KIREI	EMBOSSED PANELS, ZEN	MINT 038	.35" THICK	-	
AWP-3	ACOUSTIC WALL PANEL	CARNEGIE, XOREL ARTFORM	WAVELINE 3D	XOREL BLOOM, EMBOSS 34	16" X 16"	-	
AWP-4	ACOUSTIC WALL PANEL	CARNEGIE, XOREL ARTFORM	WAVELINE 3D	XOREL METEOR, 700	16" X 16"	-	
AWP-5	ACOUSTIC WALL PANEL	CARNEGIE, XOREL ARTFORM	WAVELINE 3D	XOREL METEOR, 2019	16" X 16"	-	
CG-1	CORNER GUARDS	INPRO CORPORATION	TAPE-ON CORNER GUARDS (WITHOUT TAPE)	CLAM SHELL 0154	1-1/2" WINGS	90 DEGREE. REFER TO TYPICAL WALL PROTECTION/CORNER GUARD ELEVATION ON SHEET A-631 FOR MOUNTING HEIGHT. TO BE USED WITH MANUFACTURER-RECOMMENDED ADHESIVE	
CG-2	CORNER GUARDS	INPRO CORPORATION	TAPE-ON CORNER GUARDS (WITHOUT TAPE)	SERENITY 0166	1-1/2" WINGS	90 DEGREE. REFER TO TYPICAL WALL PROTECTION/CORNER GUARD ELEVATION ON SHEET A-631 FOR MOUNTING HEIGHT. TO BE USED WITH MANUFACTURER-RECOMMENDED ADHESIVE	
CWT-1	CERAMIC WALL TILE	VIRGINIA TILE, VITL	DOLCE	PEPPERMINT GLOSS	5" X 10"	STACK BOND INSTALLATION. USE GT-1	
FRP-1	FIBERGLASS REINFORCED PLASTIC	MARLITE	STANDARD FRP	WHITE	4' X 10'	FINISH: SMOOTH; USE MATCHING TRIM	
PT-1	PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW 7570 EGRET WHITE	-	FIELD PAINT	
PT-1A	PAINT	SHERWIN WILLIAMS	EPOXY FINISH	SW 7570 EGRET WHITE	-	FIELD EPOXY PAINT	
PT-1B	PAINT	SHERWIN WILLIAMS	PRO-INDUSTRIAL, WATER-BASED, CATALYZED, EPOXY SYSTEM / EGGSHELL FINISH	SW 7570 EGRET WHITE	-	PAINT ALL EXPOSED ROOF STRUCTURE, JOISTS, & DUCTWORK	
PT-1C	PAINT	SHERWIN WILLIAMS	FLAT FINISH	SW 7570 EGRET WHITE	-	CEILING PAINT	
PT-2	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS FINISH	SW 7018 DOVETAIL	-	ALL HOLLOW METAL DOOR AND WINDOW FRAMES; EXPOSED COLUMNS	
PT-3	PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW 9111 ANTLER VELVET	-	ACCENT PAINT	
PT-3C	PAINT	SHERWIN WILLIAMS	FLAT FINISH	SW 9111 ANTLER VELVET	-	ACCENT CEILING PAINT	
PT-4	PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW 6213 HALYCON GREEN	-	ACCENT PAINT	
PT-4C	PAINT	SHERWIN WILLIAMS	FLAT FINISH	SW 6213 HALYCON GREEN	-	ACCENT CEILING PAINT	
PT-5	PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW 0018 TEAL STENCIL	-	ACCENT PAINT	
RES-2	SEAMLESS RESINOUS WALL COVERING	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	S#0821-724TG	-	DESCO CO-POLYMER; ORANGE PEEL TEXTURE. USE PVC SCREED TRIM AT TOP OF COVE IN LIEU OF METAL TRIM	
VWC-1	VINYL WALLCOVERING	NATIONAL SOLUTIONS, LEVEL	GRAPHIC PRINTED ON TYPE II VINYL STIPPLE WALLCOVERING	4W36756 - MURAL 1 OPTION 5.1, V. KK081826	RE: FINISH PLAN	TYPE II; J-CAP TRIM FROM MANUFACTURER TO BE APPLIED AT ALL EXPOSED EDGES	
VWC-2	VINYL WALLCOVERING	NATIONAL SOLUTIONS	DENOVO, BARNABY GARDENS	BRUSHED BRASS	52/54", 30 LINEAL YARD ROLLS	TYPE II	
WP-1	WALL PROTECTION	INPRO CORPORATION	PALLADIUM RIGID SHEET, LEGACY PATTERN	LG-2405	4' X 10' SHEET; .040" THICK	USE MATCHING PVC TRIM AND ACCESSORY PIECES. REFER TO TYPICAL WALL PROTECTION ELEVATION ON SHEET A-631 FOR MOUNTING HEIGHT; PICK-PROOF CAULKING TO BE APPLIED AT ALL EXPOSED EDGES AND TRIM PIECES, INCLUDING THE TOP EDGE	
WP-2	WALL PROTECTION	INPRO CORPORATION	PALLADIUM RIGID SHEET, LEGACY PATTERN	LG-2404	4' X 10' SHEET; .040" THICK	USE MATCHING PVC TRIM AND ACCESSORY PIECES. REFER TO TYPICAL WALL PROTECTION ELEVATION ON SHEET A-631 FOR MOUNTING HEIGHT; PICK-PROOF CAULKING TO BE APPLIED AT ALL EXPOSED EDGES AND TRIM PIECES, INCLUDING THE TOP EDGE	
WP-3	WALL PROTECTION	INPRO CORPORATION	CONTINUUM DECORATIVE DESIGNS, SUBWAY TILE PATTERN	CALCUTTA WARM 5C019 ON PURE WHITE 0383	.080" THICK; 4' X 10' PANELS OR 4' X 8' PANELS	USE MATCHING PVC TRIM AND ACCESSORY PIECES. REFER TO TYPICAL WALL PROTECTION ELEVATION ON SHEET A-631 FOR MOUNTING HEIGHT; PICK-PROOF CAULKING TO BE APPLIED AT ALL EXPOSED EDGES AND TRIM PIECES, INCLUDING THE TOP EDGE	
CASEWORK							
IS-1	INTEGRAL SINK	WILSONART	AV1812 ADA RECTANGLE VANITY	DESIGNER WHITE	19-5/8" X 14-3/4" X 5"	-	
IS-2	INTEGRAL SINK	WILSONART	AV1512 OVAL ADA VANITY BOWL	DESIGNER WHITE	17-1/4" X 14-3/8" X 3-3/4"	-	
PLAM-1	PLASTIC LAMINATE	WILSONART	8235-05	DAINTREE	4' X 8'	RUN VERTICALLY. USE MATCHING EDGEBANDING	
S-1	STAINLESS STEEL SINK, SINGLE BOWL	RE: MEP	UNDERMOUNT	-	-	RE: MEP	
S-2	STAINLESS STEEL SINK, DOUBLE BOWL	RE: MEP	UNDERMOUNT	-	-	RE: MEP	
SSF-1	SOLID SURFACE	WILSONART	9196RS	YUKON RIVERSTONE	1/2" THICK	EASED EDGES	
SSF-2	SOLID SURFACE	WILSONART	D354SL	DESIGNER WHITE	1/2" THICK	WINDOW SILLS	
UCS-1	ULTRACOMPACT SURFACE	COSENTINO	DEKTON	-	2 CM	SIMPLE BEVEL EDGE; VELVET FINISH	
CEILING							
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	FINE FISSURED 1729; SQUARE EDGE	WHITE	24" X 48"	15/16" SQUARE LAY-IN & 15/16" PRELUDE SUSPENSION SYSTEM	
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	FINE FISSURED HIGH NRC 1755	WHITE	24" X 48"	15/16" SQUARE LAY-IN & 15/16" PRELUDE SUSPENSION SYSTEM	
ACT-3	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE 672	WHITE	24" X 48"	15/16" SQUARE LAY-IN & 15/16" PRELUDE SUSPENSION SYSTEM	
ACT-4	ACOUSTIC CEILING TILE	ARMSTRONG	ACOUSTIBUILT SEAMLESS CEILING SYSTEM 2604	WHITE	48" X 72"	INSTALL PER MANUFACTURER'S INSTRUCTIONS. PANEL SEAM LOCATIONS TO BE COORDINATED W/ MEP ITEMS. USE 6" TALL WHITE AXIOM TRIM(AXTR6STR) ON ALL EXPOSED EDGES, WHERE APPLICABLE, RE: RCP	
ACT-5	ACOUSTIC CEILING TILE	ARMSTRONG	LYRA PB 8357PBWTC	TOFFEE CHESTNUT	24" X 48"	9/16" SQUARE TEGULAR & 9/16" SUPRAFINE XL SUSPENSION SYSTEM IN OAT (SOT) COLOR	
WVW-1	WOOD-LOOK VINYL WALLCOVERING	DESIGNTEX - DI-NOC	WOODGRAINS	WG-1703	-	CORNERS TO BE WRAPPED W/ GRAIN OF WOOD, GRAIN TO RUN PARALLEL TO CORNERS, RE: RCP	
MISC.							
CC-1	CUBICLE CURTAIN	MAYER FABRICS	ENLIVEN	OCEAN PC9-013	-	TO BE USED W/ CCT-1; WHITE MESH	
CCT-1	CUBICLE CURTAIN TRACK	INPRO CORPORATION	CLICKEZE WHISPER CUBE	WHITE	-	RE: RCP. TO BE USED W/ CC-1	
DR-1	INTERIOR DOOR	VT INDUSTRIES	ALL WOOD DOORS TO BE CLAD IN HIGH PRESSURE DECORATIVE LAMINATE	WILSONART 8235-05 DAINTREE	-	3MM PVC EDGES, LAMINATED TOPS AND BOTTOMS	
GT-1	GROUT	MAPEI	ULTRACOLOR PLUS FA	5103 COBBLESTONE	-	MINIMAL GROUT LINES. TO BE USED W/ CWT-1	
MB-1	MARKERBOARD	CLARIDGE	ARISE MARKERBOARD EM3X4LCS	100 WHITE	36" TALL X 48" WIDE	CONFIRM FINAL LOCATIONS W/ OWNER PRIOR TO INSTALLATION	
MT-1	METAL TRIM	SCHLUTER	JOLLY	CLEAR SATIN ANODIZED ALUMINUM	-	USE AT EXPOSED EDGES OF WALL TILE; SUB-CONTRACTOR TO CONFIRM SIZE W/ MORTAR BED THICKNESS	
SB-1	SHOWER BASE	GRIFFORM	STANDARD SHOWER BASE	CORIAN-GLACIER WHITE	38" X 38"	SLOPING ENTRY; INTEGRAL CADDY COMPARTMENT AND DRAIN ASSEMBLY - PVC-SOLVENT WELD; CONTACT JAMIE@GRIFFORM.COM FOR MORE INFORMATION	
SB-2	SHOWER BASE	GRIFFORM	STANDARD SHOWER BASE W/ INTEGRATED MOLDED SOLID SURFACE ADA BENCH	CORIAN-GLACIER WHITE	38" X 62"	SLOPING ENTRY; INTEGRAL CADDY COMPARTMENT AND DRAIN ASSEMBLY - PVC-SOLVENT WEL; INTEGRAL MOLDED ADA BENCH: 36"W X 15"D X 18"H; CONTACT JAMIE@GRIFFORM.COM FOR MORE INFORMATION	
SC-1	SHOWER CURTAIN	INPRO CORPORATION	CLICKEZE W/ SUPER BIO-STAT VINYL, STYLE #4	SHARKSKIN	RE: FLOOR PLAN & RCP	24" HEIGHT EZE MESH TO BE WHITE; SUPER BIO STAT TRANSLUCENT AT BOTTOM	
SW-1	SHOWER WALLS	GRIFFORM	STANDARD SHOWER WALLS	CORIAN-GLACIER WHITE	1/2" THICK; RE: FINISH FLOOR PLAN	RE: DETAIL D2/A-633; CONTACT JAMIE@GRIFFORM.COM FOR MORE INFORMATION	
TB-1	TACKBOARD	NOVAWALL	1" WELTLESS EDGE SYSTEM & CONCEALED SQUARE EDGE	TF-1	RE: PLAN & ELEVATIONS	STRETCHED FABRIC ACOUSTIC SYSTEM, WRAPPED W/ TF-1; CORE TO BE 1" MULTI-DENSITY FIBERGLASS, 6 PCF DENSITY. RE: DETAILS ON A-633	
TF-1	TACK FABRIC	MAHARAM	TENET 466972	OCEANFRONT 033	-	TO BE USED W/ TB-1	
TP-1	TOILET PARTITIONS	WILSONART	SOLICOR COMPACT LAMINATE PANELS 599	8212-SC-60SC PHANTOM ECRU	5' X 10' SHEET	RE: FLOOR PLAN AND SHEET SPECS. MATTE FINISH	
UP-1	UPHOLSTERY	ARC-COM	CLOUD FOREST	DUNE	-	BOOTH SEATING, RE: INTERIOR ELEVATION	
UP-2	UPHOLSTERY	ARC-COM	CLOUD FOREST	SEABREEZE	-	BOOTH SEATING, RE: INTERIOR ELEVATION	
UP-3	UPHOLSTERY	STINSON	RUNWAY	PEPLUM	-	BOOTH SEATING, RE: INTERIOR ELEVATION	
UP-4	UPHOLSTERY	ARC-COM	ATLAS	SEAFOAM	-	BOOTH SEATING, RE: INTERIOR ELEVATION	
WF-1	WINDOW FILM	DECORATIVE FILMS	SOLYX SXJ-0546 ORGANIC COTTON GRADIENT	MATTE	9'-0" HEIGHT	RE: FINISH FLOOR PLAN FOR LOCATIONS. APPLY TO INTERIOR SIDE OF WINDOW	
WF-2	WINDOW FILM	3M	ULTRA NIGHT VISION S25; ULTRA S800	-	-	TO BE APPLIED TO ALL EXTERIOR WINDOWS, INCLUDING CLERESTORIES. APPLY TO INTERIOR SIDE OF WINDOW. PROVIDE MOCKUPS ON-SITE FOR OWNER TO REVIEW. FINAL FILM PRODUCT TO BE SELECTED BY OWNER.	
WT-1	WINDOW TREATMENT	MECHOSHADE	MECHO 5, SINGLE MANUAL SHADE SYSTEM	SHADECLOTH: SOHO 1100 SERIES, 1903 LIGHT GREY, 3% OPEN	-	LOCATED AT ALL ADMIN ROOM WINDOWS; CLOSURE & END CAPS TO BE WHITE	
WT-2	WINDOW FILM	MECHOSHADE	MANUAL URBAN BRACKET DOUBLE SHADE	SHADECLOTH: SOHO 1100 SERIES, 1903 LIGHT GREY/CHELSEA BLACKOUT 0250 SERIES, GRAPHITE 0253	-	LOCATED AT ALL RESIDENT ROOM WINDOWS; CLOSURE & END CAPS TO BE WHITE	

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: ACI BOLAND

SHEET TITLE:
INTERIOR FINISH MATERIAL LEGENDS, SCHEDULES

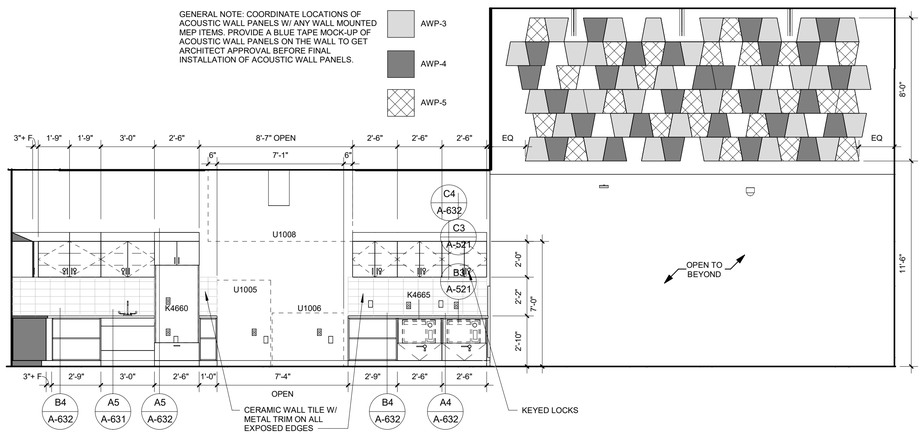
SHEET NUMBER:
A-611

September 30, 2026

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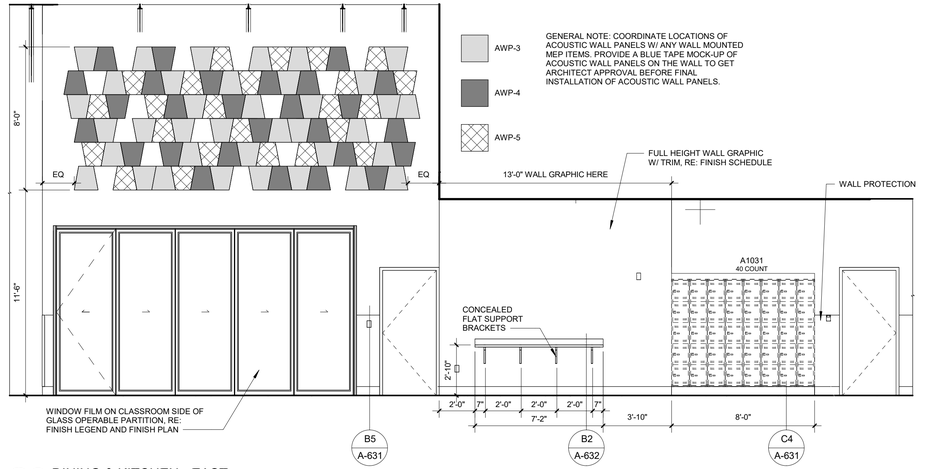
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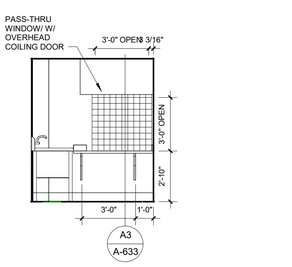
C6 DINING/KITCHEN - WEST
1/4" = 1'-0"

135	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	USC-1
SINKS	S-1.2



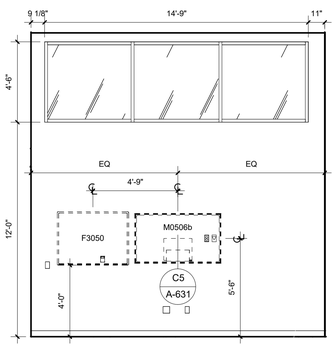
C2 DINING & KITCHEN - EAST
1/4" = 1'-0"

135	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	USC-1
SINKS	S-1.2



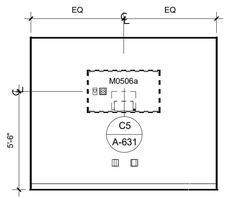
B5 DISH/WASTE - NORTH
1/4" = 1'-0"

136	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



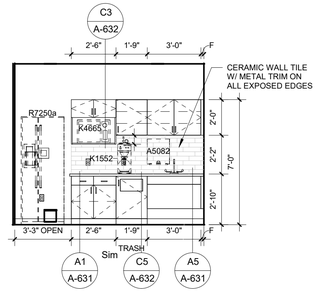
B4 TYP. CLASSROOM - FOCAL WALL
1/4" = 1'-0"

123	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



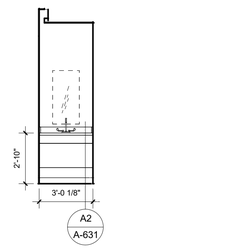
B3 CONFERENCE ROOM - SOUTH
1/4" = 1'-0"

117	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



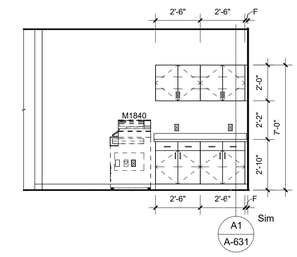
B2 BREAK - WEST
1/4" = 1'-0"

118	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	S-2



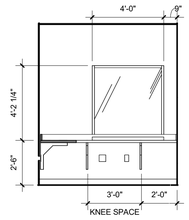
B1 STAFF RESPITE - WEST
1/4" = 1'-0"

119	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	S-1



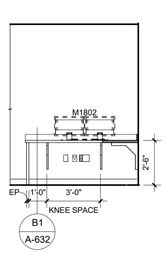
A5 ADMIN SUITE - COPY/PRINT
1/4" = 1'-0"

108	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	-



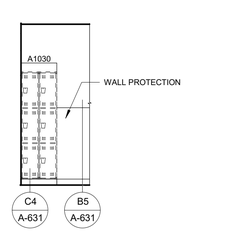
A4 SECURITY CONTROL - EAST
1/4" = 1'-0"

102	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-



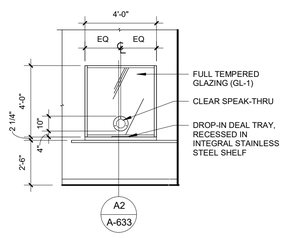
A3 SECURITY CONTROL - NORTH
1/4" = 1'-0"

102	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-



A2 VISITOR LOBBY - LOCKERS
1/4" = 1'-0"

101	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



A1 VESTIBULE - SECURITY WINDOW
1/4" = 1'-0"

100	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
REGISTERED ARCHITECT
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: Designer

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A-621

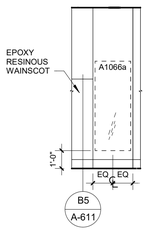
70 OF 133

September 30, 2026

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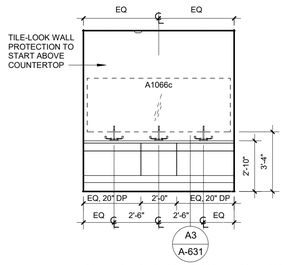
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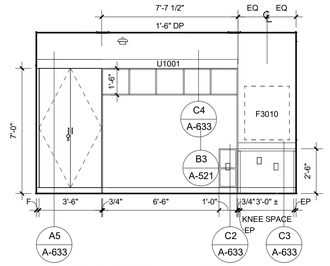
D4 FULL-HEIGHT MIRRORS
1/4" = 1'-0"

158	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	IS-2



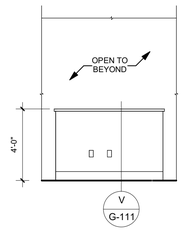
D3 SHARED RESTROOM - SINKS
1/4" = 1'-0"

158	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	IS-2



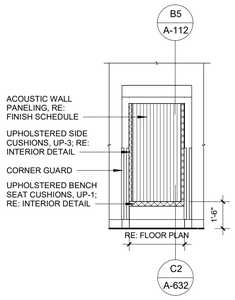
D2 TYP. DORM MILLWORK
1/4" = 1'-0"

140	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	PLAM-1
SINKS	-



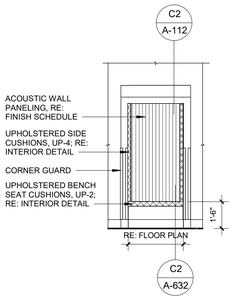
D1 TYP. LIVING ROOM KNEE WALL
1/4" = 1'-0"

139	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-



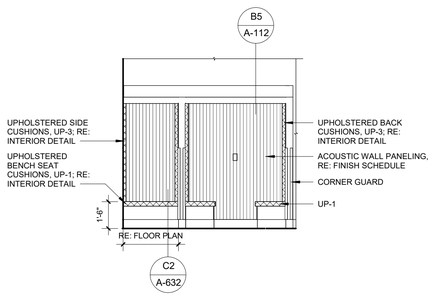
C5 TYP. INDIVIDUAL BOOTH 2
1/4" = 1'-0"

178	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



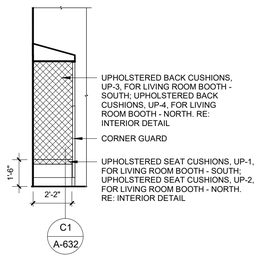
C4 TYP. INDIVIDUAL BOOTH 1
1/4" = 1'-0"

178	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



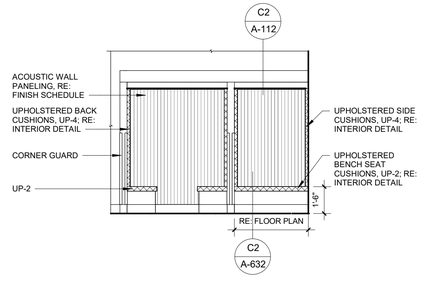
C3 LIVING ROOM BOOTH - SOUTH
1/4" = 1'-0"

168	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



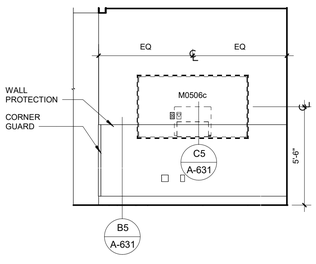
C2 TYP. NOOK BANQUET BOOTH
1/4" = 1'-0"

178	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



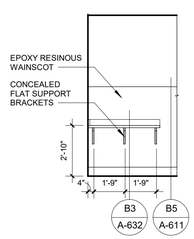
C1 LIVING ROOM BOOTH - NORTH
1/4" = 1'-0"

178	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



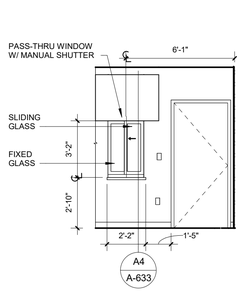
B5 LIVING AREA - TV
1/4" = 1'-0"

138.3	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



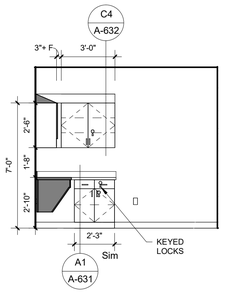
B4 SEARCH - EAST
1/4" = 1'-0"

127	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-



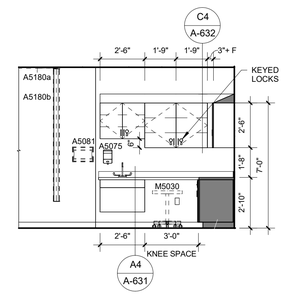
B3 NURSE - WEST
1/4" = 1'-0"

130	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	IS-1



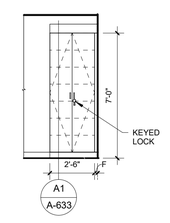
B2 NURSE - SOUTH
1/4" = 1'-0"

130	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	IS-1



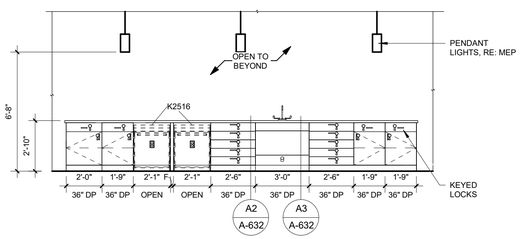
B1 NURSE - EAST
1/4" = 1'-0"

130	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	IS-1



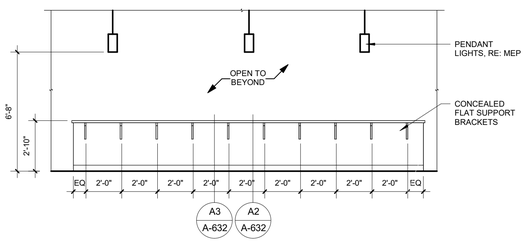
A5 UTENSILS CAB.
1/4" = 1'-0"

136	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-



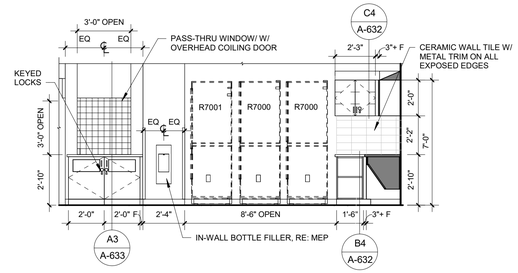
A4 KITCHEN - ISLAND 2
1/4" = 1'-0"

135	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	USC-1
SINKS	S-1.2



A2 KITCHEN - ISLAND 1
1/4" = 1'-0"

135	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	USC-1
SINKS	S-1.2



A1 KITCHEN - SOUTH
1/4" = 1'-0"

135	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	USC-1
SINKS	S-1.2

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: Designer

SHEET TITLE:
INTERIOR ELEVATIONS

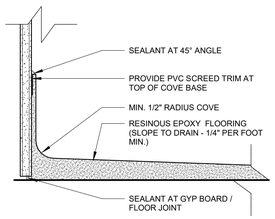
SHEET NUMBER:
A-622

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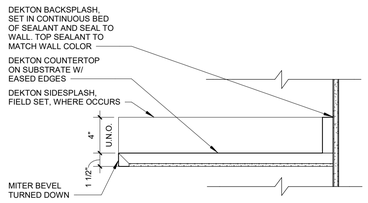
September 30, 2026

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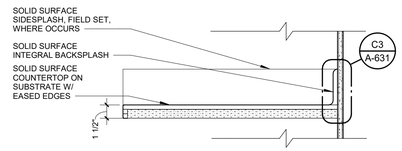
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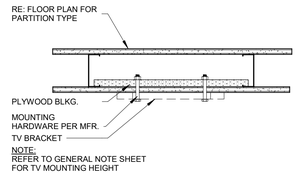
D5 DETAIL AT RESINOUS BASE
3" = 1'-0"



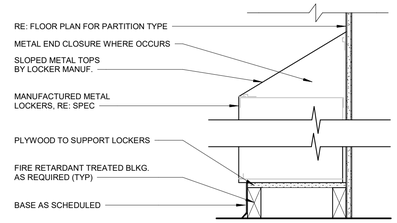
D4 TYPICAL DEKTON COUNTERTOP
1 1/2" = 1'-0"



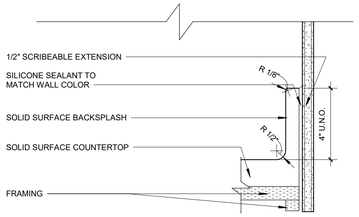
D3 TYPICAL SOLID SURFACE COUNTERTOP
1 1/2" = 1'-0"



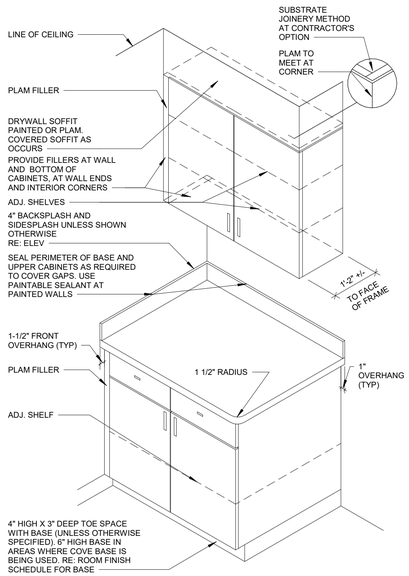
C5 DETAIL AT TV MOUNTING BRACKET
1 1/2" = 1'-0"



C4 DETAIL AT LOCKER BASE
1 1/2" = 1'-0"



C3 DETAIL AT SOLID SURFACE BACKSPLASH
3" = 1'-0"



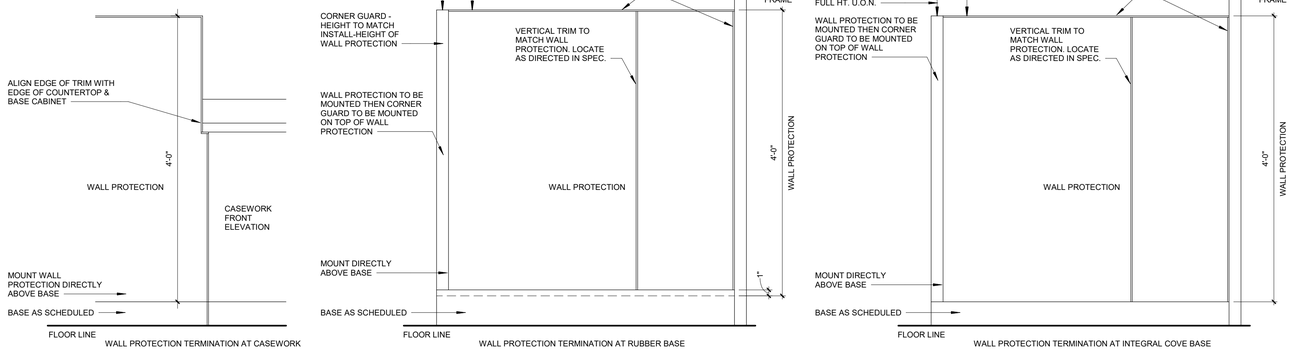
TYP. CABINET NOTES:

1. PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
2. ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
3. GROMMETS FOR CABLE PASSAGE THROUGH WORK COUNTERS: 2-1/2 INCH OD, MOLDED-PLASTIC GROMMETS WITH MATCHING PLASTIC CAPS WITH A SLOT FOR WIRE PASSAGE. PROVIDE (2) GROMMETS CENTERED BETWEEN THE COUNTERTOP SUPPORT BRACKETS AT EACH KNEE SPACE MODULE. GROMMETS TO BE INSTALLED IN FIELD AS DIRECTED BY OWNER. COLOR TO BE SELECTED BY ARCHITECT.
4. PLAM COUNTERTOP EDGES SHALL BE 3 MM PLASTIC. COLOR AS SELECTED BY ARCHITECT.

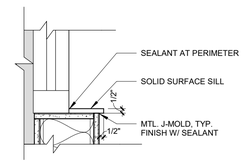
C2 CASEWORK ISOMETRIC
1 1/2" = 1'-0"

GENERAL CASEWORK NOTES

1. GENERAL CASEWORK NOTES APPLY TO ALL INTERIOR ELEVATIONS.
2. PROVIDE 3 MM PVC EDGE BANDING ON COUNTERTOP EDGE, EDGING ON DRAWER, AND DOOR EDGES UNLESS NOTED OTHERWISE. EDGE BANDING TO MATCH ADJACENT PLAM SURFACE.
3. ALL EXPOSED FACES AND SHELVES TO BE WRAPPED WITH PLAM UNLESS NOTED OTHERWISE.
4. ALL INTERIOR SURFACES TO BE WHITE MELAMINE UNLESS NOTED OTHERWISE.
5. PROVIDE WOOD BLOCKING OR 12" HIGH X 16 GA. CONTINUOUS SHEET METAL BRIDGING IN WALL AS REQUIRED FOR ADEQUATE SUPPORT OF ALL CASEWORK.
6. WALL BASE TO BE INSTALLED ON ALL CASEWORK UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE FOR TYPE.
7. "F" INDICATES FILLER PANEL, 1-1/2" MIN.
8. "EP" INDICATES END PANEL, 1-1/2" MIN.
9. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK.
10. ALL ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS SHOWN IN ELEVATION ARE FOR REFERENCE AND LOCATION ONLY. REFER TO MEP DRAWINGS FOR SIZES, TYPES AND QUANTITIES.
11. ALL SOFFITS ABOVE CASEWORK TO BE PLAM UNLESS NOTES OTHERWISE.
12. ALL CASEWORK SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.

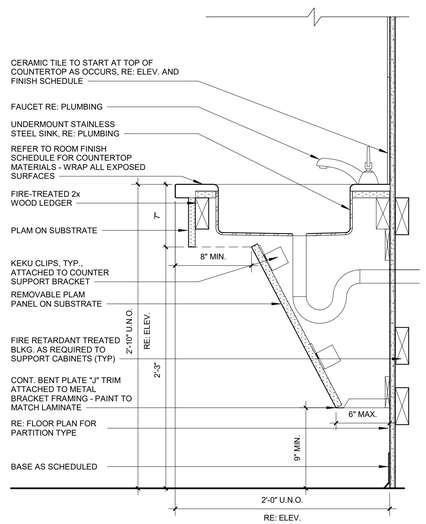


B5 TYP- ELEV- OF WALL PROTECTION-CORNER GUARD
1" = 1'-0"

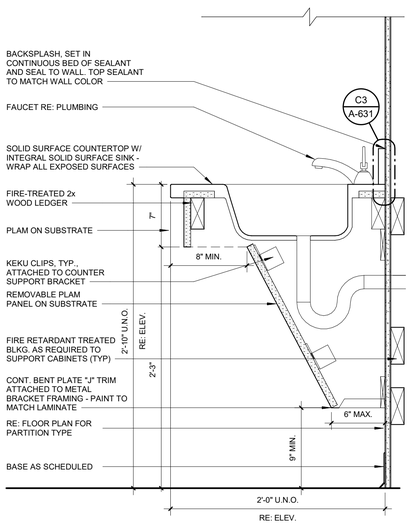


B2 DETAIL AT SOLID SURFACE WINDOW SILL
1 1/2" = 1'-0"

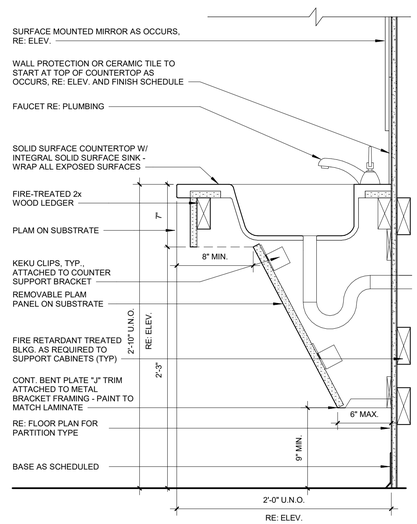
A1 DETAIL AT CASEWORK
1 1/2" = 1'-0"



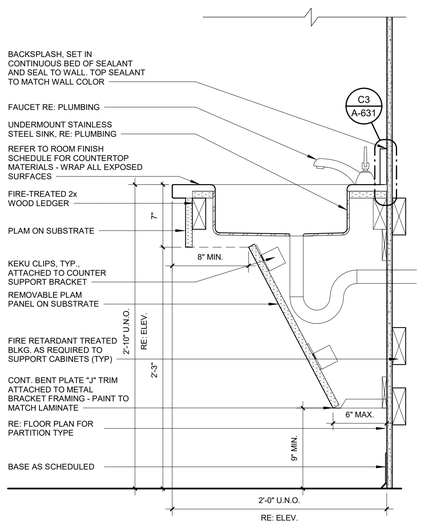
A5 DETAIL AT APRON SINK BASE CABINET - KITCHEN
1 1/2" = 1'-0"



A4 DETAIL AT APRON SINK BASE CABINET - SOLID SURFACE W/ BACKSPLASH
1 1/2" = 1'-0"



A3 DETAIL AT APRON SINK BASE CABINET - SOLID SURFACE
1 1/2" = 1'-0"



A2 DETAIL AT APRON SINK BASE CABINET - SST SINK
1 1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

DOMINIC J. SPADAFORE
NUMBER A-2025003940
STATE OF MISSOURI
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: ACI BOLAND

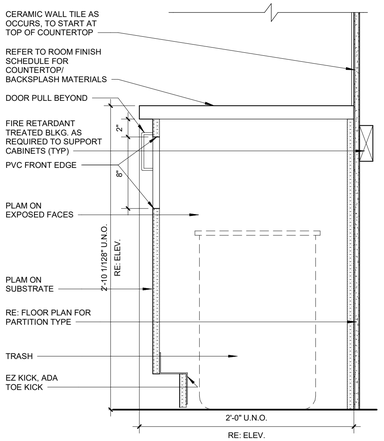
SHEET TITLE:
GENERAL INTERIOR DETAILS

SHEET NUMBER:
A-631

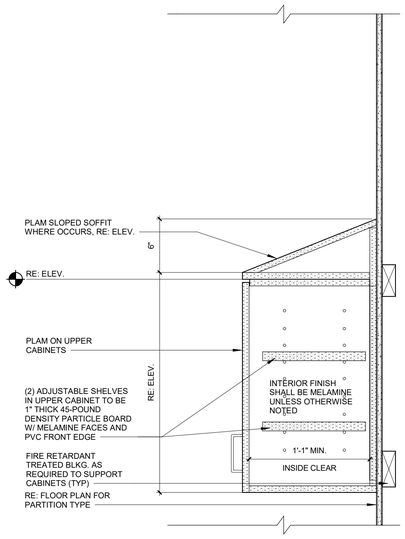
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September 30, 2026

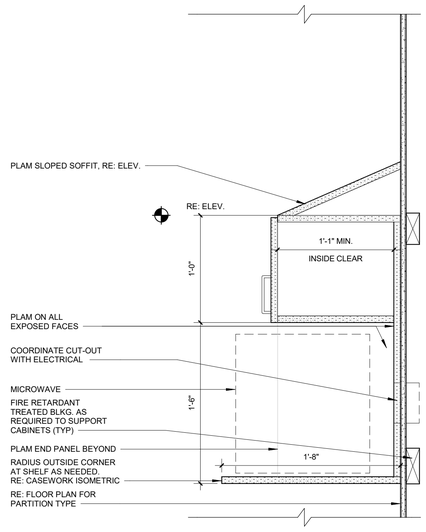
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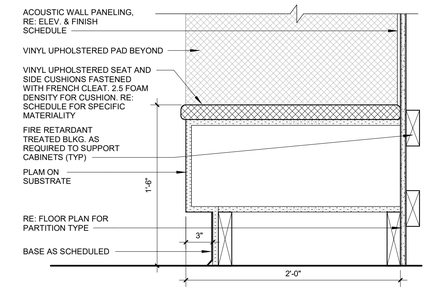
C5 DETAIL AT TRASH CABINET - FRONT OPENING
1 1/2" = 1'-0"



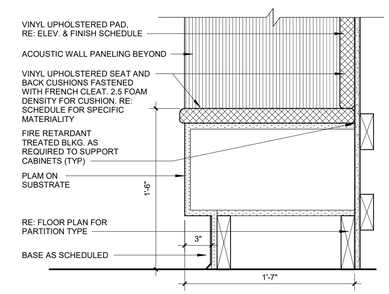
C4 DETAIL AT UPPER CABINET - SLOPED SOFFIT
1 1/2" = 1'-0"



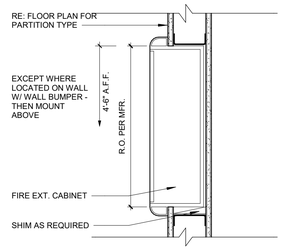
C3 DETAIL AT WALL-MOUNTED MICROWAVE SHELF
1 1/2" = 1'-0"



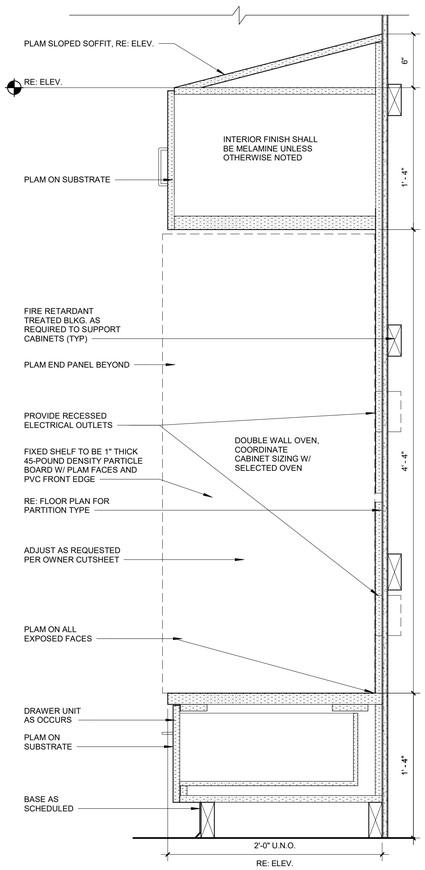
C2 DETAIL AT BUILT-IN BENCH - UPHOLSTERED PAD
1 1/2" = 1'-0"



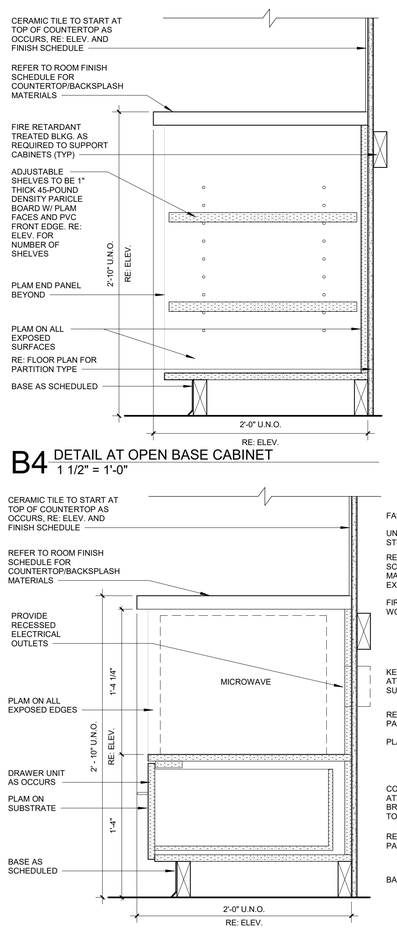
C1 DETAIL AT BUILT-IN BENCH - UPHOLSTERED BOOTH
1 1/2" = 1'-0"



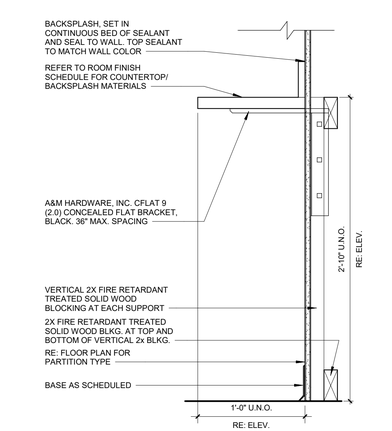
D1 DETAIL AT FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"



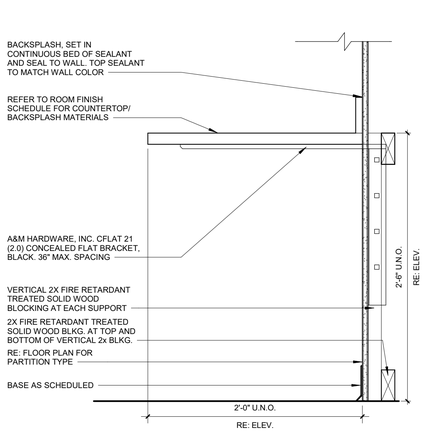
A5 DETAIL AT FULL HT- OVEN CABINET
1 1/2" = 1'-0"



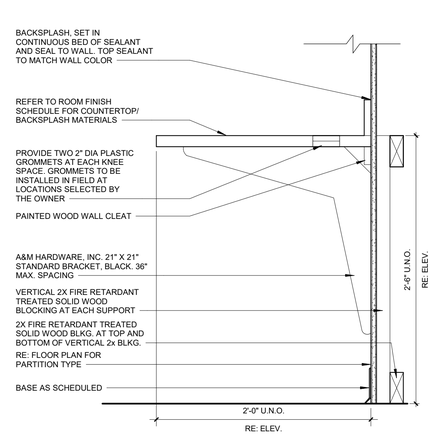
B4 DETAIL AT OPEN BASE CABINET
1 1/2" = 1'-0"



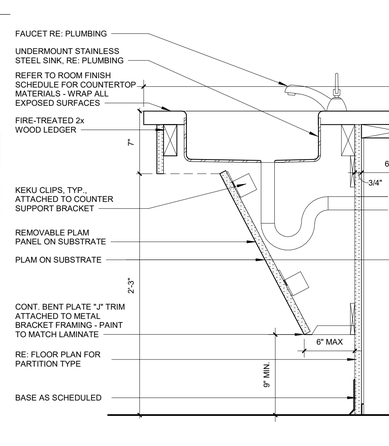
B3 DETAIL AT SUPPORT BRACKET-KNEE SPACE - 9" CONCEALED BRACKETS
1 1/2" = 1'-0"



B2 DETAIL AT SUPPORT BRACKET-KNEE SPACE - CONCEALED BRACKETS
1 1/2" = 1'-0"

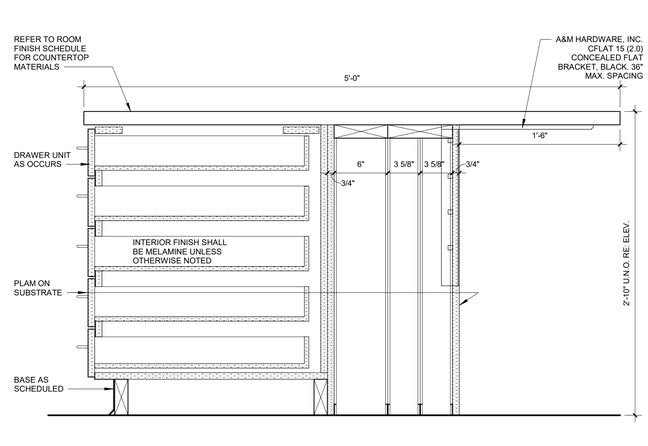


B1 DETAIL AT SUPPORT BRACKET-KNEE SPACE
1 1/2" = 1'-0"



A4 DETAIL AT MICROWAVE BASE CABINET
1 1/2" = 1'-0"

A3 DETAIL AT KITCHEN ISLAND APRON SINK
1 1/2" = 1'-0"



A2 DETAIL AT KITCHEN ISLAND
1 1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
DOMINIC J. SPADAFORE
NUMBER A-2025003940
9/30/2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: ACI BOLAND

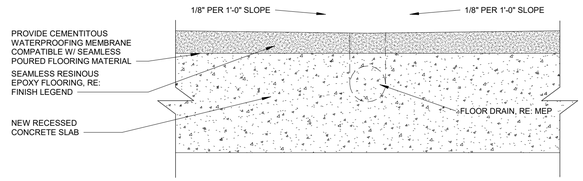
SHEET TITLE:
INTERIOR DETAILS

SHEET NUMBER:
A-632

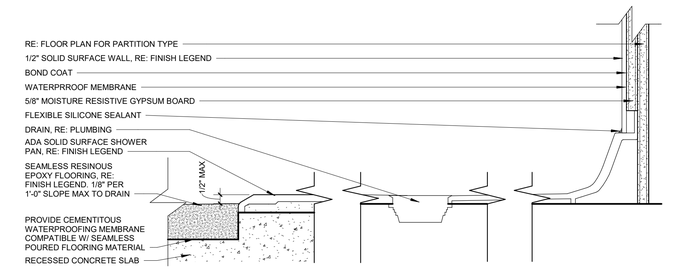
73 OF 133

September 30, 2026

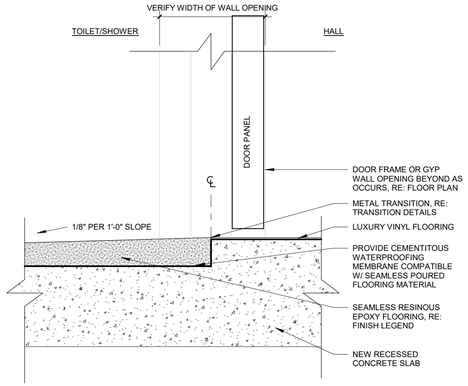
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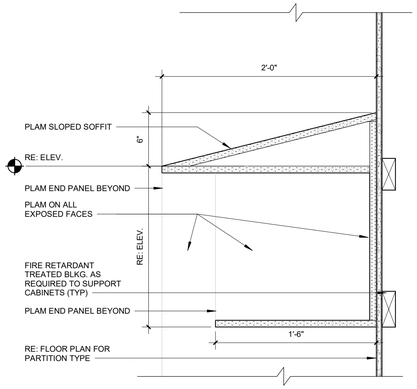
D4 DETAIL AT FLOOR DRAIN AT SLOPING FLOOR
3" = 1'-0"



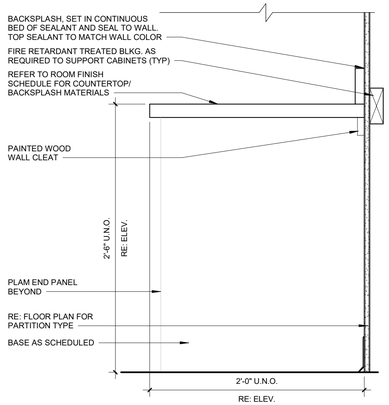
D2 DETAIL AT SHOWER - RES. FLOORING TRANSITION
3" = 1'-0"



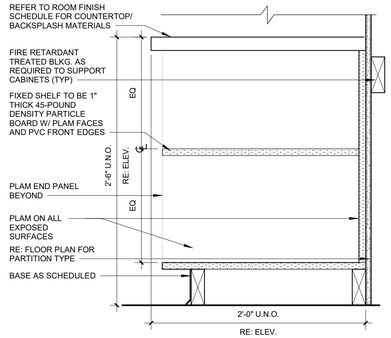
C5 TYP DETAIL AT PATIENT FLOORING TRANSITION AT SWING DOOR - NEW RECESSED SLAB
3" = 1'-0"



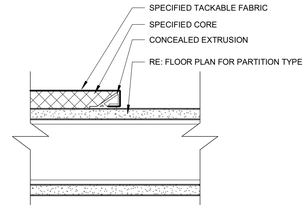
C4 DETAIL AT RESIDENT ROOM SHELVING
1 1/2" = 1'-0"



C3 DETAIL AT RESIDENT ROOM DESK
1 1/2" = 1'-0"

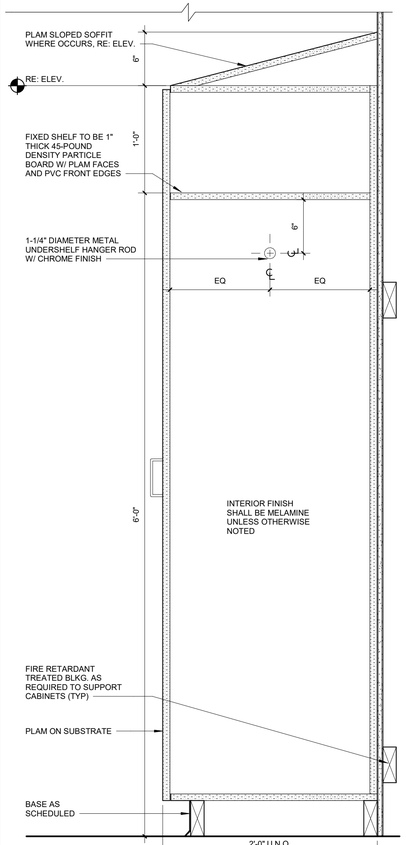


C2 DETAIL AT RESIDENT ROOM NIGHTSTAND
1 1/2" = 1'-0"

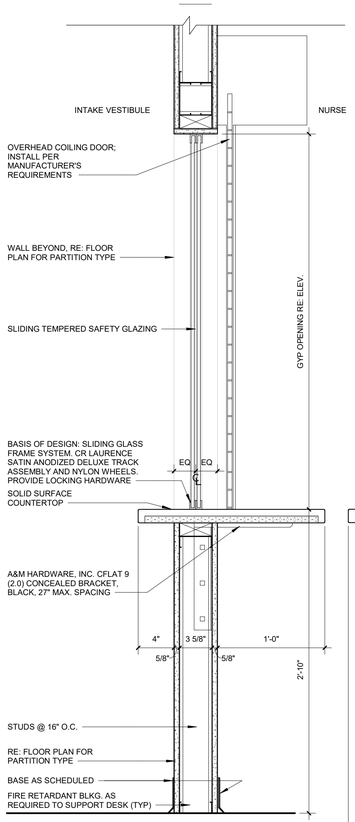


EXPOSED EDGE

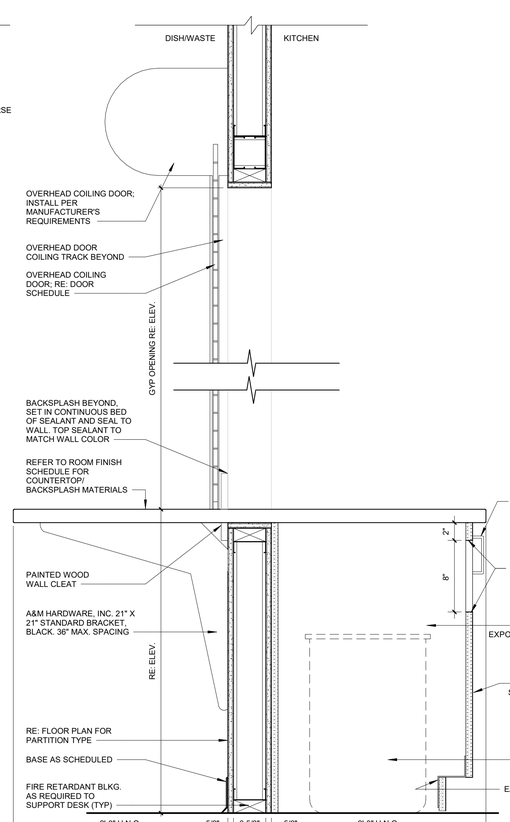
C1 DETAIL AT TACKBOARD PANELS
3" = 1'-0"



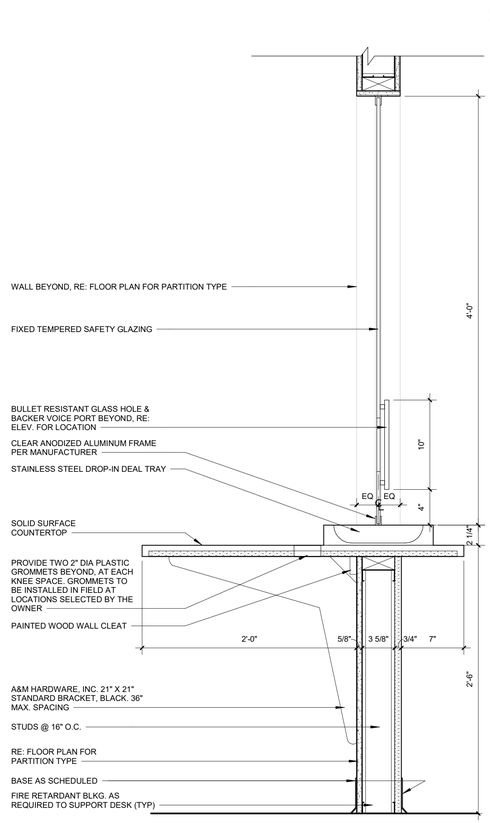
A5 DETAIL AT WARDROBE CABINET
1 1/2" = 1'-0"



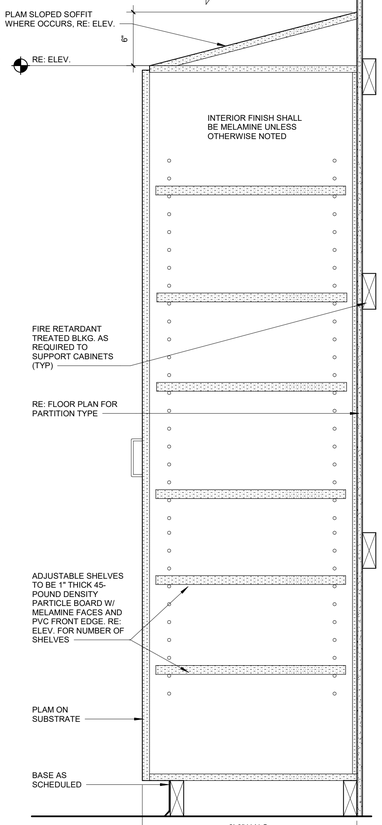
A4 DETAIL AT NURSE PASS-THRU
1 1/2" = 1'-0"



A3 DETAIL AT PASS-THRU - COILING DOOR
1 1/2" = 1'-0"



A2 DETAIL AT SECURITY/CONTROL WINDOW
1 1/2" = 1'-0"



A1 DETAIL AT FULL HT- CABINET
1 1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

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CAD DWG FILE:
DRAWN BY: KDS
CHECKED BY: KGF
DESIGNED BY: ACI BOLAND

SHEET TITLE:
INTERIOR DETAILS

SHEET NUMBER:
A-633

September 30, 2026

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Autodesk Docs://3-26009 - Joplin Community Supv Ctr/3-26009 Joplin CSC.rvt

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CODE AND DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - INTERNATIONAL BUILDING CODE, 2018 EDITION
2. STRUCTURE RISK CATEGORY
   - RISK CATEGORY II
3. GRAVITY LOADS
   - 3.1. ROOF DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):
     - ROOFING 2 PSF
     - INSULATION (FLAT) 10 PSF
     - INSULATION (ANGLED) 2 PSF
     - MEP ALLOWANCE 5 PSF
     - CEILING ALLOWANCE 2.5 PSF
     - MISCELLANEOUS 3 PSF
     - MAXIMUM DEAD LOAD USED FOR UPLIFT 10 PSF
   - 3.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
     - ROOF 20 PSF
4. ROOF SNOW LOAD DATA
   - GROUND SNOW LOAD P_g = 15 PSF
   - FLAT ROOF SNOW LOAD P_F = 10.5 PSF
   - FLAT ROOF SNOW LOAD (CANOPIES) P_F = 12 PSF
   - SNOW LOAD IMPORTANCE FACTOR I_s = 1.00
   - SNOW EXPOSURE FACTOR C_e = 1.00
   - THERMAL FACTOR C_t = 1.00
   - THERMAL FACTOR (CANOPIES ONLY) C_t = 1.20
   - SLOPE FACTOR (GABLE ROOFS ONLY) C_s = 0.9
   - SNOW DRIFT LOADS
     - AS SHOWN IN THE ROOF SNOW LOADING DIAGRAMS ON SHEET(S) S003
5. WIND DESIGN DATA
   - BASIC DESIGN WIND SPEED V = 108 MILES/HOUR
   - ALLOWABLE STRESS DESIGN WIND SPEED V_{asd} = 83.7 MILES/HOUR
   - WIND EXPOSURE EXPOSURE C
   - INTERNAL PRESSURE COEFFICIENT GC_{pi} = +/- 0.18
   - COMPONENTS AND CLADDING DESIGN WIND PRESSURES (ULTIMATE)
     - REFER TO COMPONENTS AND CLADDING DIAGRAM AND SCHEDULE ON SHEET S003
6. EARTHQUAKE DESIGN DATA
   - SEISMIC IMPORTANCE FACTOR I_e = 1.00
   - MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - 0.2-SECOND PERIOD S_S = 0.123
     - 1.0-SECOND PERIOD S_1 = 0.079
   - SITE CLASS SITE CLASS D (MEASURED)
   - DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - 0.2-SECOND PERIOD S_{DS} = 0.132
     - 1.0-SECOND PERIOD S_{D1} = 0.126
   - SEISMIC DESIGN CATEGORY SDC B
   - BOTH DIRECTIONS
     - BASIC SEISMIC FORCE RESISTING SYSTEM STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
       - RESPONSE MODIFICATION COEFFICIENT R = 3
     - SEISMIC RESPONSE COEFFICIENTS (1.0E) CS = 0.044
     - DESIGN BASE SHEAR(1.0E) V = 27.0 KIPS
   - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE ANALYSIS
7. FLOOD DESIGN DATA
   - FLOOD ZONE DESIGNATION ZONE X (UNSHADED)
8. DEFLECTION CRITERIA
   - 8.1. UNLESS NOTED OTHERWISE, CALCULATED INDIVIDUAL MEMBER DEFLECTIONS DO NOT EXCEED THE FOLLOWING LIMITS:
     - ROOF MEMBERS
       - DEAD LOAD L/360
       - LIVE LOAD L/240
       - DEAD + LIVE LOAD L/180
     - WHERE L EQUALS THE SPAN LENGTH IN INCHES BETWEEN SUPPORTS (FOR CANTILEVERS, L EQUALS TWICE THE LENGTH OF THE CANTILEVER). NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
   - 8.2. DEFERRED DESIGN ITEMS AND NON-STRUCTURAL ITEMS MUST BE DESIGNED TO ACCOMMODATE THE CALCULATED DEFLECTIONS LISTED ABOVE.

GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL, OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'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.
2. THE CONTRACT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR REFERENCE TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS UNLESS SPECIFICALLY STATED OTHERWISE.
4. THE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI, OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND CIVIL DOCUMENTS. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, MEMBER SIZES, AND SITE CONDITIONS BEFORE STARTING WORK. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. THE CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES, AND OPENING LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT DIMENSIONS AND WEIGHTS WITH THE EQUIPMENT VENDOR. NOTIFY THE DESIGN PROFESSIONAL OF ANY DISCREPANCY.
9. THE CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS AND WEIGHTS WITH THE VENDOR.
10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS, LOCATIONS, AND DEPTHS OF SLAB RECESSES WITH ARCHITECTURAL DRAWINGS, INTERIOR DRAWINGS, AND PRODUCT MANUFACTURERS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITION FRAMING. PROVIDE CONNECTIONS TO THE PRIMARY STRUCTURE THAT ACCOMMODATE THE VERTICAL LIVE LOAD DEFLECTIONS OF THE SUPPORTING ELEMENTS.
12. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
13. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
14. STRUCTURE IS DESIGNED ONLY FOR THE INDICATED LOADS UNLESS SPECIFICALLY INDICATED. VERIFICATION OF THE STRUCTURE TO SUPPORT CONSTRUCTION LOADING (INCLUDING HEAVY EQUIPMENT, SCISSOR LIFTS, SCAFFOLDING, CONSTRUCTION MATERIAL STORAGE, ETC) IS THE RESPONSIBILTY OF THE CONTRACTOR. SUBMIT VERIFICATION CALCULATIONS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW PRIOR TO CONSTRUCTION LOADING OF ANY PORTION OF THE STRUCTURE. VERIFICATION SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER LICENSED IN THE PROJECT STATE.
15. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
16. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE USE OF CONSTRUCTION EQUIPMENT ON THE STRUCTURE. ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT SHALL BE REPAIRED.
17. DO NOT USE DIMENSIONS SCALED FROM THE CONTRACT DOCUMENTS OR TAKEN FROM ANY ELECTRONIC DOCUMENT.
18. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS REQUIRED TO REVIEW SHOP DRAWINGS AND COORDINATE WITH OTHER TRADES BEFORE SENDING THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONAL.
19. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
20. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED.
21. PROVIDE EQUAL SPACING OF ELEMENTS UNLESS NOTED OTHERWISE IN THE STRUCTURAL CONTRACT DOCUMENTS.

DEFERRED DESIGN ITEMS

1. THE STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN AND CONNECTIONS OF DEFERRED DESIGN ITEMS OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. DEFERRED SUBMITTALS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
2. DEFERRED DESIGN ITEMS / DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING UNLESS SPECIFICALLY NOTED OTHERWISE:
   - STRUCTURAL STEEL CONNECTIONS
   - STRUCTURAL STEEL JOISTS
   - COLD-FORMED METAL FRAMING AND ATTACHMENTS TO STRUCTURE
   - COLD-FORMED METAL TRUSSES AND ATTACHMENTS TO STRUCTURE
   - PRE-ENGINEERED MAINTENANCE SHED
   - PRE-ENGINEERED CANOPIES
   - PRE-ENGINEERED PERGOLA
   - HANDRAILS AND CONNECTIONS
   - STOREFRONT / CURTAIN WALL SYSTEMS, CONNECTIONS, AND ATTACHMENTS
   - ARCHITECTURAL / METAL CLADDING PANELS AND ATTACHMENTS TO STRUCTURE
   - SUPPORT AND FASTENING FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS
   - RAMMED AGGREGATE PIERS

FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY KAW VALLEY ENGINEERING; PROJECT NUMBER C26G2670, DATED 29 JUNE 2026. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
2. FOUNDATIONS ARE DESIGNED AS INDIVIDUAL SPREAD FOOTINGS, CONTINUOUS SPREAD FOOTINGS, AND TURNED DOWN SLAB EDGES SUPPORTED BY RAMMED AGGREGATE PIERS (RAP) CAPABLE OF SUPPORTING 5000 PSF AND A COEFFICIENT OF FRICTION OF 0.47.
   - 2.1. RAMMED AGGREGATE PIER SYSTEM IS A DEFERRED DESIGN ITEM. REFER TO THE GEOTECHNICAL REPORT FOR DESIGN REQUIREMENTS.
   - 2.2. RAMMED AGGREGATE PIER SYSTEM SHALL BE DESIGNED BY A REGISTERED ENGINEER IN THE PROJECT STATE. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. THE REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING THE GENERAL ARRANGEMENT AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN INTENT. SUCH REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE RAMMED AGGREGATE PIER SYSTEM.
   - 2.3. THE CONTRACTOR SHALL SUBMIT THE NUMBER AND ARRANGEMENT OF COMPACTED AGGREGATE PIERS WITHIN THE STRUCTURE FOOTPRINT TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW.
   - 2.4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR NOISE AND VIBRATION ABATEMENT. THE CONTRACTOR SHALL SUBMIT A NOISE/VIBRATION ABATEMENT PLAN TO THE ARCHITECT.
   - 2.5. REFER TO THE SPECIFICATIONS FOR REQUIRED LOAD TESTING.
   - 2.6. TRENCHING AND OTHER EXCAVATION COORDINATION WITH RAMMED AGGREGATE PIERS:
     - INSTALLED BEFORE RAMMED AGGREGATE PIER SYSTEM:
       - PLUMBING LINES/SLEEVES MAY NOT BE INSTALLED THROUGH PIER ZONES UNDER COLUMN FOUNDATIONS.
       - MAINTAIN 24 INCHES OF CLEARANCE FROM RAMMED AGGREGATE PIERS
     - INSTALLED AFTER RAMMED AGGREGATE PIER SYSTEM:
       - NO PORTION OF TRENCH EXCAVATION SHALL ENCROACH ON THE AREA WITHIN A LINE EXTENDING AT 45 DEGREES FROM THE BOTTOM OF AN ADJACENT RAMMED AGGREGATE PIER SOIL MATRIX-SUPPORTED FOOTING. IF A CLOSER TRENCH INSTALLATION IS REQUIRED, THE CONTRACTOR SHALL CONTACT GEOTECHNICAL ENGINEER AND RAMMED AGGREGATE PIER SUBCONTRACTOR FOR APPROVAL.
       - ADDITIONAL MEANS MAY BE REQUIRED DURING EXCAVATION (SHORING, ETC.).
       - RAMMED AGGREGATE PIERS SHALL NOT BE COMPROMISED DURING ANY TRENCH INSTALLATION.
       - AFFECTED RAMMED AGGREGATE PIERS SHALL BE RECONSTRUCTED UNLESS OTHERWISE APPROVED BY THE GEOTECHNICAL ENGINEER AND RAMMED AGGREGATE PIER SUBCONTRACTOR.
3. CLEAR SUBGRADE BY STRIPPING ALL VEGETATION, TOPSOIL, ORGANIC SOILS, UNSTABLE FILL, LOOSE ROCK FRAGMENTS GREATER THAN 6 INCHES IN DIAMETER, DEMOLITION DEBRIS, AND OTHER DEBRIS. UNSUITABLE EXISTING FILL AND MATERIALS (AS DETERMINED BY A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY) SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
4. PROOF ROLL THE BUILDING AREA AFTER STRIPPING OPERATIONS AND EXCAVATIONS TO PLANNED SUBGRADE ARE COMPLETE. PROOF ROLL THE BUILDING AREA WITH TWO COMPLETE COVERAGES (MINIMUM) OF A FULLY-LOADED, TANDEM AXLE DUMP TRUCK, OR SCRAPPER (25 TON MINIMUM.) PROOF ROLLING OPERATIONS SHALL BE REVIEWED AND CONDUCTED UNDER THE DIRECTION OF A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY. SOFT SOILS, SOILS THAT DISPLAY PUMPING, AND OTHER SOILS JUDGED UNSATISFACTORY BY THE REPRESENTATIVE OF THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL OR REMEDIATED ACCORDING TO THE REPRESENTATIVE'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE SPECIFICATIONS. AREAS RECEIVING STRUCTURAL FILL SHALL BE PROOF ROLLED BEFORE PLACEMENT OF THE FILL.
5. DENSIFY BUILDING AREAS AND A MINIMUM OF 15'-0" OUTSIDE THE BUILDING PERIMETER USING A VIBRATORY ROLLER (REFER TO THE SPECIFICATIONS).
6. UNDERCUT THE ENTIRE BUILDING AREA TO THE EXTENT SHOWN ON THE STRUCTURAL DOCUMENTS AND REPLACE REMOVED MATERIAL WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.
7. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER BEFORE PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 95 PERCENT OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
8. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH, AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (REFER TO ARCHITECTURAL).
9. MECHANICAL STABILIZATION OF THE SOILS MAY BE REQUIRED FOR DRYING SATURATED SOILS. MECHANICAL STABILIZATION MAY USE CHEMICAL STABILIZATION (LIME OR FLY-ASH), DISCING, AERATION, AND DRYING. SOILS DEEMED UNSUITABLE SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL.
10. MAINTAIN PROPER DRAINAGE OF THE SITE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE A SYSTEM FOR CONTROLLING GROUNDWATER TO PRESERVE THE INTEGRITY OF THE FOUNDATION AND BUILDING SUBGRADE. REMEDIAL WORK WILL BE REQUIRED WHERE WATER HAS REDUCED THE INTEGRITY OF THE FOUNDATION AND SUBGRADE SYSTEMS. DO NOT ALLOW WATER TO STAND, POND, OR COLLECT IN THE FOUNDATION EXCAVATIONS, ON FLOOR SLAB AREAS, OR ON PREPARED SUBGRADES DURING OR AFTER CONSTRUCTION.
11. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
12. THE TIME BETWEEN CONCRETE TRUCK LOADS DURING A CONCRETE PLACEMENT FOR SPREAD FOOTINGS, CONTINUOUS FOOTINGS, PILE CAPS, MATS, GRADE BEAMS, AND TIE BEAMS SHALL NOT CAUSE UNPLANNED COLD JOINTS.
13. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 36 INCHES BELOW FINISHED GRADE.

CONCRETE FORMWORK

1. THE DESIGN, ERECTION, SUPPORT, BRACING, AND REMOVAL OF FORMWORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. THE DESIGN, ERECTION, AND REMOVAL OF FORMWORK SHORES AND RESHORES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH ACI 301, ACI 347, AND ACI 117.
4. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW PRIOR TO THE ERECTION OF ANY FORMWORK FOR ELEVATED FLOORS. SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER LICENSED IN THE PROJECT STATE. REVIEW SHALL BE FOR GENERAL CONFORMANCE AND COORDINATION WITH THE STRUCTURAL DOCUMENTS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF FORMWORK, SHORING, AND RESHORING.
   - 4.1. SHOP DRAWINGS SHALL INDICATE THE FOLLOWING MINIMUM INFORMATION:
     - DIMENSIONS
     - FORMWORK MATERIALS
     - FORMWORK CONSTRUCTION
     - SHORING LOCATIONS AND PROCEDURES
     - RESHORING LOCATIONS AND PROCEDURES
     - CHAMFERS
     - EMBEDS AND INSERTS
     - PROPOSED CONSTRUCTION JOINT LOCATIONS
     - CRITERIA FOR FORMWORK, SHORING, AND RESHORING REMOVAL
     - PROCEDURES FOR FORMWORK, SHORING, AND RESHORING REMOVAL
     - THE MINIMUM NUMBER OF DAYS REQUIRED FOR FORMWORK, SHORING, AND RESHORING REMOVAL
     - PLACEMENT HEIGHTS OF CONCRETE IN INSULATING CONCRETE FORMS
5. PLACE AND SECURELY FASTEN ALL ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS TO THE FORMWORK.
6. DO NOT REMOVE FORMWORK, SHORING, OR RESHORING EARLIER THAN RECOMMENDED BY ACI 301 OR ACI 347.
7. THE REMOVAL OF SHORING AND THE PLACEMENT OF RESHORING SHALL BE COMPLETED IN THE SAME DAY (DO NOT LEAVE AREAS WITHOUT SHORING OR AREAS THAT ARE NOT COMPLETED WITH RESHORING OVERNIGHT).
8. EARLY FORMWORK STRIPPING AND IMPROPER RESHORING PROCEDURES MAY LEAD TO EXCESSIVE CONCRETE DEFLECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY REPAIRS OR FLOOR LEVELING.
9. CHAMFER OR RADIUS ALL EXPOSED CORNERS ON WALLS, BEAMS, AND COLUMNS. CHAMFER SIZE 3/4 INCH UNELSS NOTED OTHERWISE.
10. SPLIT, FRAYED, DELAMINATED, OR OFFSET JOINTS ARE NOT ACCEPTABLE FOR CONCRETE SURFACES EXPOSED TO VIEW.
11. RESHORES FOR TWO-WAY CONCRETE SLABS MUST REMAIN IN PLACE A MINIMUM OF 21-DAYS.

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 IN FLAT SHEETS WITH MINIMUM 8 INCH SIDE LAPS AND END LAPS.
3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL.
   - 4.1. PROVIDE MECHANICAL COUPLERS FOR ALL TENSION LAP SPLICES WITH #14 AND GREATER BARS. ALL MECHANICAL COUPLERS SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE SPECIFIED YIELD STRESS OF THE BAR (TYPE 1 MECHANICAL COUPLERS). COUPLERS SHALL BE STAGGERED AT A MINIMUM OF 24 INCHES.
5. PROVIDE DOWELS FROM FOUNDATIONS THE SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
6. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90-DEGREE HOOK.
7. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS, UNLESS NOTED OTHERWISE.
8. PROVIDE CORNER BARS AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS. CORNER BARS TO MATCH SIZE AND QUANTITY OF CONTINUOUS REINFORCEMENT AND PROVIDE A CLASS B LAP SPLICE.
9. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - 9.1. COVER OF CONCRETE EXPOSED TO GROUND OR WEATHER:
     - UNFORMED, CAST AGAINST GROUND 3 INCH CLEAR
     - FORMED, #6 AND LARGER 2 INCH CLEAR
     - FORMED, #5 AND SMALLER 1-1/2 INCH CLEAR
   - 9.2. COVER OF CONCRETE NOT EXPOSED TO GROUND OR WEATHER:
     - WALLS 3/4 INCH CLEAR
     - COLUMNS (TIES) 1-1/2 INCH CLEAR
     - BEAMS / GIRDERS (STIRRUPS) 1-1/2 INCH CLEAR
     - SLABS 3/4 INCH CLEAR
   - 9.3. MASONRY REINFORCING STEEL, UNLESS NOTED OTHERWISE.
     - 8 INCH CMU WALLS CENTERED IN CELL
     - 12 INCH CMU WALLS 2-3/4 INCH CLEAR
10. PROVIDE REINFORCING SUPPORTS AND CHAIRS FOR ALL DEFORMED BARS AND WELDED WIRE REINFORCEMENT IN ACCORDANCE WITH CRSI PLACING REINFORCING BARS.
11. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DOCUMENTS, PROVIDE A MINIMUM OF TWO #5 CONTINUOUS BARS TOP BARS TO SUPPORT BEAM STIRRUPS WHERE NO TOP BARS ARE SCHEDULED OR NOTED.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 301, ACI 318, AND CRSI STANDARDS.
2. CONCRETE SHALL BE THE FOLLOWING SPECIFIED PROPERTIES (MINIMUM EXPOSURE CLASS [EXPOSURE CLASS], MAXIMUM WATER-TO-CEMENTITIOUS MATERIALS RATIO [W/CM], MAXIMUM AGGREGATE SIZE [AG SZ], AND MINIMUM 28-DAY COMPRESSIVE STRENGTH [STRENGTH]):
   - 2.1. NORMALWEIGHT STRUCTURAL CONCRETE:

ELEMENT	EXPOSURE CLASS	W/CM	AG SZ	STRENGTH
FOOTINGS	F0 S0 W0 C1	0.50	1.50"	4000 PSI
EXTERIOR SLABS-ON-GROUND	F3 S0 W1 C2	0.40	1.00"	4500 PSI
INTERIOR SLABS-ON-GROUND	F0 S0 W0 C1	0.50	1.00"	3000 PSI
SLABS ON METAL DECK	F0 S0 W0 C0	0.50	0.75"	3000 PSI

3. EXPOSURE CLASS F1, F2, AND F3 SHALL RECEIVE AIR ENTRAINMENT PER THE SPECIFICATIONS. DO NOT AIR ENTRAIN SMOOTH TROWELED SURFACES.
4. DO NOT PLACE PIPES, CONDUITS, OR DUCTS INSIDE AND RUNNING PARALLEL TO BEAMS WITHOUT PRIOR AUTHORIZATION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
5. PIPES, CONDUITS, OR DUCTS SHALL NOT EXCEED ONE-FIFTH OF THE SLAB OR WALL THICKNESS (INCLUDING CROSSINGS) UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL DESIGN PROFESSIONAL. PLACE ALL PIPES, CONDUITS, AND DUCTS IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF SLEEVES, ACCESSORIES, ETC. CONDUIT IN COMPOSITE SLABS SHALL NOT EXCEED 3/4 INCH DIAMETER EMT AND SHALL NOT BE SPACED CLOSER THAN 12 INCHES.
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR THE LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
7. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
8. DEFECTIVE AREAS IN CONCRETE, INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. THE EXTENT OF THE DEFECTIVE AREAS WILL BE DETERMINED BY THE DESIGN PROFESSIONAL.
9. CONCRETE SLAB-ON-GROUND SHALL NOT BE LOADED UNTIL A MINIUMUM CONCRETE STRENGTH OF 1800 PSI IS OBTAINED AND THE CONCRETE IS AT LEAST THREE DAYS OLD. ALL OTHER CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE DESIGN STRENGTH IS ATTAINED.
10. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND THE SPECIFICATIONS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM, CONCRETE SPECIMENTS SHALL BE TAKEN FOR EVERY 100 YARDS OR PORTION THEREOF FOR EACH MIX DESIGN PLACED IN A DAY. CONCRTE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION.
11. CJ ON THE SLAB AND FOUNDATION PLAN INDICATES SAW-CUT CONTRACTION JOINTS IN THE CONCRETE SLB-ON-GROUND. SAW-CUT CONTRACTION JOINTS SHALL BE INSTALLED WITHIN 12 HOURS OS SLAB PLACEMENT. CONTINUE REINFORCEMENT THROUGH JOINTS. CONSTRUCTION AND/OR CONTRACTION JOINTS SHALL BE SPACED NO FARTHER THAN 48 TIMES THE SLAB THICKNESS ON CENTER IN EACH DIRECTION, CREATING PANELS WITH AN ASPECT RATIO NOT GREATER THAN 1.25:1.
12. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A CHAMFER OR RADIUS OF ¾ INCH UNLESS NOTED OTHERWISE.
13. CONCRETE SHALL RECEIVE THE FOLLOWING FINISHES (UNLESS NOTED OTHERWISE OR REQUESTED BY THE OWNER OR ARCHITECTURAL DESIGN PROFESSIONAL):
   - 13.1. INTERIOR EXPOSED SLABS STEEL TROWEL FINISH
   - 13.2. EXTERIOR SLABS BROOM FINISH IN THE DIRECTION OF SLOPE
   - 13.3. ALL OTHER CONCRETE STEEL TROWEL FINISH
14. INTERIOR EXPOSED SLABS SHALL MEET THE FOLLOWING FLOOR FLATNESS AND FLOOR LEVELNESS TOLERANCES AS DETERMINED BY ASTM E1155: F_F/F_L = 25/20

CONCRETE UNIT MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MINIMUM UNIT COMPRESSIVE STRENGTH OF 2000 PSI. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY SHALL BE f_m' = 2000 PSI.
2. MORTAR SHALL CONFORM TO ASTM C270 AND COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR. MORTAR SHALL BE OF THE FOLLOWING TYPE:
   - WALLS BELOW GRADE: TYPE S
   - BEARING WALLS: TYPE S
3. GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI TO MATCH OR EXCEED f_m'.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE CELLS FULLY GROUTED. CONCRETE MASONRY ABOVE FINISHED FLOOR SHALL BE NORMAL-WEIGHT UNITS AND SHALL BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE. ALL CELLS WITH REINFORCING OR EMBEDDED ITEMS SHALL BE GROUTED SOLID.
6. GROUTING SHALL BE A CONTINUOUS PROCEDURE FOR EACH POUR. FORM GROUT KEYS BETWEEN GROUT POURS BY TERMINATING THE GROUT A MINIMUM OF 2 INCHES BELOW A MORTAR JOINT. DO NOT FORM GROUT KEYS WITHIN BEAMS. AT BEAMS OR LINTELS WITH CLOSED BOTTOM UNITS, TERMINATE THE GROUT POUR AT THE BOTTOM OF THE BEAM OR LINTEL WITHOUT FORMING A GROUT KEY. LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 12'-8" WHERE THE FOLLOWING CONDITIONS ARE MET (OTHERWISE LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 5'-4"):
   - 6.1. THE MASONRY HAS CURED FOR AT LEAST 4 HOURS.
   - 6.2. THE GROUT SLUMP IS MAINTAINED BETWEEN 10 INCHES AND 11 INCHES.
   - 6.3. NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND BOTTOM OF THE POUR HEIGHT.
   - 6.4. PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY WHEN THE GROUT POUR HEIGHT EXCEEDS 5'-4". IN SOLID GROUTED MASONRY, SPACE CLEANOUTS HORIZONTALLY A MAXIMUM OF 32 INCHES ON CENTER WITH A MINIMUM OPENING DIMENSION OF 3 INCHES.
7. GROUT SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4 INCH DIAMETER HEAD.
8. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE. PROVIDE THE FOLLOWING HORIZONTAL JOINT REINFORCEMENT UNLESS NOTED OTHERWISE.
   - ABOVE GRADE CONDITION: W1.7 (9 GAGE) LONGITUDINAL WIRES @ 16 INCHES VERT
   - BELOW GRADE CONDITION: W1.7 (9 GAGE) LONGITUDINAL WIRES @ 8 INCHES VERT
   - PARAPET CONDITION: W1.7 (9 GAGE) LONGITUDINAL WIRES @ 8 INCHES VERT
   - PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
9. PROVIDE KNOCK OUT BOND BEAM BLOCK UNITS WITH 3 INCH DEEP MINIMUM WEB OPENINGS AT HORIZONTAL REINFORCEMENT LOCATIONS. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS UNLESS NOTED OTHERWISE. A MINIMUM CLEAR SPACE OF ONE BAR DIAMETER SHALL BE PROVIDED BETWEEN THE REINFORCING BARS AND THE FACE OF MASONRY UNITS.
10. PROVIDE U-SHAPED BLOCK UNITS AT LINTELS OVER OPENINGS. REFER TO THE DETAILS FOR LOCATION OF REINFORCEMENT.
11. PROVIDE CONTROL JOINTS IN ALL CONCRETE MASONRY WALLS AT A MAXIMUM SPACING OF 1.5 TIMES THE WALL HEIGHT OR 25 FEET, WHICHEVER IS LESS. DO NOT PLACE CONTROL JOINTS ADJACENT TO OPENINGS. SUBMIT CONTROL JOINT LOCATIONS FOR APPROVAL BY THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION.
12. PROVIDE DOVETAIL ANCHORS SPACED AT 16 INCHES WHERE MASONRY WALLS ABUT CONCRETE SURFACES, UNLESS NOTED OTHERWISE.
13. SUBMIT WRITTEN CONSTRUCTION PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION. INSTALL TEMPORARY BRACING AT ALL CONCRETE MASONRY WALLS. BRACING SHALL BE DESIGNED IN ACCORDANCE WITH THE MASON CONTRACTORS ASSOCIATION OF AMERICA (MCAA) "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION." DESIGN OF BRACING SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. DO NOT REMOVE TEMPORARY BRACING UNTIL WALL IS PERMANENTLY BRACED BY CONNECTION TO THE ROOF STRUCTURE.

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STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2008024305
PROFESSIONAL ENGINEER
09.29.2026

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
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POST-INSTALLED FASTENING AND ANCHORAGE IN CONCRETE AND MASONRY

1. PROVIDE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. SUBMIT PROPOSED POST-INSTALLED ANCHORING PRODUCTS BEFORE USE.
2. SUBMIT SUBSTITUTION REQUESTS FOR SPECIFICALLY REFERENCED ANCHOR SOLUTIONS TO THE STRUCTURAL DESIGN PROFESSIONAL. SUBSTITUTION REQUESTS MUST FOLLOW THE PROCEDURE INDICATED IN THE CONSTRUCTION DOCUMENTS. CALCULATIONS SHOWING THE PROPOSED PRODUCT CAN ACHIEVE PERFORMANCE EQUAL TO THE PRODUCT SPECIFIED IN THE CONSTRUCTION DOCUMENTS MUST ACCOMPANY ANY SUBSTITUTION REQUEST. CALCULATIONS MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
3. SUBSTITUTION OF POST-INSTALLED ANCHORS FOR MISPLACED, DAMAGED, OR MISSING CAST-IN-PLACE ANCHORS REQUIRES THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL BEFORE INSTALLATION.
4. PROVIDE CARBON STEEL ANCHOR RODS FOR ADHESIVE ANCHORING SYSTEMS MADE OF MATERIAL CONFORMING TO ASTM A193, GRADE B7. PROVIDE STAINLESS STEEL ANCHOR RODS FOR ADHESIVE ANCHORING SYSTEMS MADE OF MATERIAL CONFORMING TO ASTM A193, GRADE B6.
5. PROVIDE POST-INSTALLED, MECHANICAL CONCRETE ANCHORS IN CRACKED AND UNCRACKED CONCRETE MEETING THE FOLLOWING CRITERIA:
   - 5.1. ANCHORS SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND/OR ICC-ES AC193 FOR USE IN CRACKED CONCRETE. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 5.2. ANCHORS SHALL BE APPROVED TO RESIST WIND AND SEISMIC LOADING.
   - 5.3. THE MINIMUM EMBEDMENT LENGTH OF ANCHORS SHALL BE SIX TIMES THE ANCHOR DIAMETER UNLESS NOTED OTHERWISE.
6. PROVIDE POST-INSTALLED, ADHESIVE CONCRETE ANCHORS IN CRACKED AND UNCRACKED CONCRETE MEETING THE FOLLOWING CRITERIA:
   - 6.1. ADHESIVE ANCHOR SYSTEMS (ADHESIVES AND CONNECTING HARDWARE) SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND/OR ICC-ES AC308 FOR USE IN CRACKED CONCRETE. ANCHOR SYSTEMS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 6.2. ADHESIVE ANCHOR SYSTEMS INSTALLED IN OVERHEAD OR UPWARDLY INCLINED ORIENTATIONS, AND ADHESIVE ANCHOR SYSTEMS RESISTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY INSTALLERS CERTIFIED IN ACCORDANCE WITH THE ACI/CSRI "ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM."
   - 6.3. THE INSTALLATION SHALL BE INSPECTED IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.
   - 6.4. THE MINIMUM EMBEDMENT LENGTH OF ANCHORS SHALL BE SIX TIMES THE ANCHOR DIAMETER UNLESS NOTED OTHERWISE.
   - 6.5. THE MINIMUM EMBEDMENT LENGTH OF POST-INSTALLED REINFORCING BARS SHALL BE 12 BAR DIAMETERS UNLESS NOTED OTHERWISE.
   - 6.6. THE DESIGN OF ADHESIVE ANCHOR SYSTEMS ASSUMES THE FOLLOWING:
     - CONCRETE IS AT LEAST 21 DAYS OLD.
     - HOLES ARE DRY AT THE TIME OF INSTALLATION.
     - THE ACI 355.4 TEMPERATURE CATEGORY IS CATEGORY B.
7. PROVIDE POST-INSTALLED, MECHANICAL MASONRY ANCHORS MEETING THE FOLLOWING CRITERIA:
   - 7.1. MECHANICAL EXPANSION ANCHORS IN SOLID/GROUT-FILLED CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC01. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 7.2. MECHANICAL SCREW ANCHORS IN SOLID/GROUT-FILLED CONCRETE MASONRY AND HOLLOW CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
8. PROVIDE POST-INSTALLED, ADHESIVE MASONRY ANCHORS MEETING THE FOLLOWING CRITERIA:
   - 8.1. ADHESIVE ANCHOR SYSTEMS (ADHESIVE AND CONNECTING HARDWARE) IN SOLID/GROUT-FILLED CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 8.2. ADHESIVE ANCHOR SYSTEMS (ADHESIVE AND CONNECTING HARDWARE) IN HOLLOW CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 8.3. PROVIDE THE REQUIRED ACCESSORIES COMPATIBLE WITH THE ADHESIVE ANCHORING SYSTEM (SCREEN TUBES, ETC.) FOR APPLICATIONS IN HOLLOW CONCRETE MASONRY.
9. PREPARE THE HOLE AND INSTALL THE ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. DO NOT CORE DRILL INSTALLATION HOLES WITHOUT THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL.
10. POST-INSTALLED ANCHORS EXPOSED TO WEATHER SHALL BE GALVANIZED.
11. FIELD VERIFY THE LOCATION OF EXISTING REINFORCEMENT (INCLUDING POST-TENSIONING TENDONS WHERE APPLICABLE) IN EXISTING CONCRETE ELEMENTS PRIOR TO SUBMITTING ANY SHOP DRAWINGS SHOWING POST-INSTALLED ANCHORS. NOTIFY THE STRUCTURAL DESIGN PROFESSIONAL OF ANY CONFLICTS BETWEEN EXISTING REINFORCEMENT AND POST-INSTALLED ANCHORS.
   - 11.1. LOCATION OF EXISTING ELEMENTS MAY BE ESTABLISHED USING GROUND-PENETRATING RADAR (GPR), RADAR IMAGING, X-RAY SCANNING, OR ANY OTHER RELIABLE NON-DESTRUCTIVE METHOD.
12. DO NOT CUT OR DAMAGE ANY EXISTING REINFORCEMENT OR EMBEDDED ITEMS DURING INSTALLATION.
13. THE POST-INSTALLED ANCHOR LOCATIONS MAY BE SHIFTED UP TO 1 INCH TO AVOID EXISTING REINFORCEMENT OR OTHER EMBEDDED ITEMS. THE SHIFT MAY BE IN ANY DIRECTION SO LONG AS IT DOES NOT REDUCE THE CONCRETE EDGE DISTANCE OR THE MINIMUM ANCHOR SPACING REQUIREMENTS. PROVIDE FIELD DRILLED HOLES IN CONNECTING ELEMENTS AS REQUIRED.

COLD-FORMED METAL TRUSSES

1. PROVIDE PRE-ENGINEERED, SHOP MANUFACTURED COLD-FORMED METAL TRUSSES. DESIGN OF COLD-FORMED METAL TRUSSES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. DESIGN TRUSSES AND CONNECTIONS IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF AISI S240, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING.
3. SUBMIT SHOP DRAWINGS, INCLUDING AN ERECTION DRAWING SHOWING TRUSS LAYOUT, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CALCULATIONS, TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. REVIEW OF SHOP DRAWINGS AND CALCULATIONS IS ONLY FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW ONLY CONSIDERS THE TRUSS CONFIGURATION, THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS, AND THE CONTRACTOR'S INTERPRETATION OF THE DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE TRUSSES OR TRUSS CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.
4. FRAMING PLANS AND COLD-FORMED METAL TRUSS TYPES INDICATE THE SCHEMATIC CONCEPT OF THE TRUSS FRAMING CONFIGURATION. TRUSSES SHALL CONFORM TO THE SPACING, DIMENSIONS, AND CONFIGURATIONS SPECIFIED IN THESE NOTES AND ON THE PLANS. TRUSSES SHALL BE DESIGNED FOR ALL SPECIFIED LOADS. FRAMING PLANS INDICATE THE REQUIRED BASIC TRUSS LAYOUT. SIGNIFICANT DEVIATIONS FROM THESE PLANS WILL NOT BE PERMITTED.
5. THE TRUSS MANUFACTURER SHALL DESIGN ALL NECESSARY BRACING, BRIDGING, AND CONNECTIONS TO TRANSMIT THE DESIGN LOADS INTO THE STRUCTURE AND TO MEET THE DESIGN REQUIREMENTS.
6. TRUSS MEMBER CONNECTIONS, TRUSS-TO-TRUSS CONNECTIONS, AND TRUSS BEARING CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE TRUSS MANUFACTURER. TRUSS BEARING POINTS SHALL BE CONSIDERED PINNED.
7. COORDINATE TRUSS DIMENSIONS (INCLUDING ROOF PITCH AND SOFFIT GEOMETRY) WITH ARCHITECTURAL REQUIREMENTS. COORDINATE TRUSS CHORD SIZES AND LOCATIONS WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING REQUIREMENTS AND ANY MINIMUM SIZES INDICATED IN THE STRUCTURAL DRAWINGS.
8. TRUSS WEB MEMBERS ARE SHOWN FOR REFERENCE ONLY. PROVIDE ANY LAYOUT OR ARRANGEMENT OF TRUSS WEB MEMBERS NECESSARY TO SUPPORT THE APPLIED LOADS UNLESS SPECIFICALLY DETAILED OTHERWISE. PROVIDE CHASES AS REQUIRED IN TRUSSES TO ACCOMMODATE DUCTWORK AND MECHANICAL EQUIPMENT. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. DESIGN TRUSSES FOR THE FOLLOWING LOADS (NOT INCLUDING THE SELF-WEIGHT OF THE TRUSSES OR OVERBUILT TRUSSES), INCLUDING ALL ADDITIONAL LOADS NOTED ON PLANS:
   - 9.1. ROOF TRUSSES:
     - TOP CHORD DEAD LOAD: 15 PSF
     - TOP CHORD LIVE LOAD: APPLIED ROOF LIVE LOAD / SNOW LOAD / RAIN LOAD
     - BOTTOM CHORD DEAD LOAD: 10 PSF
     - BOTTOM CHORD LIVE LOAD: 0 PSF
   - 9.2. DESIGN ROOF TRUSSES FOR A NET UNIFORM UPLIFT LOAD DETERMINED USING THE MAXIMUM DEAD LOAD USED FOR UPLIFT SHOWN IN THE CODE AND DESIGN CRITERIA AND THE APPLICABLE COMPONENTS AND CLADDING PRESSURES.
   - 9.3. REFER TO PLANS AND DETAILS FOR ADDITIONAL DESIGN LOADS.
10. DESIGN TRUSSES FOR THE FOLLOWING DEFLECTION LIMITS:
    - 10.1. ROOF TRUSSES:
      - LIVE LOAD: SPAN / 240
      - TOTAL LOAD: SPAN / 180
11. PROVIDE TRUSS TOP CHORD MEMBERS WITH A MINIMUM THICKNESS OF 33 MILS (20 GA). PROVIDE TRUSS BOTTOM CHORD MEMBERS WITH A MINIMUM THICKNESS OF 33 MILS (20 GA).
12. ALL TRUSS MEMBERS SHALL BE GALVANIZED.
13. ERECT TRUSSES PLUMB TO THE GROUND, PARALLEL TO EACH OTHER, AND AT THE SPACINGS INDICATED IN THE STRUCTURAL DOCUMENTS.
14. DO NOT CUT, NOTCH, OR OTHERWISE ALTER THE TRUSSES WITHOUT WRITTEN PERMISSION FROM THE TRUSS MANUFACTURER AND THE STRUCTURAL DESIGN PROFESSIONAL.
15. DO NOT HANG EQUIPMENT OR PIPING EXCEEDING 1 INCH IN DIAMETER FROM TRUSS BOTTOM CHORDS UNLESS SPECIALLY INDICATED ON PLAN OR IN A LOADING DIAGRAM
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENGAGE THE TRUSS MANUFACTURER WHEN TRUSSES ARE DAMAGED OR MODIFIED IN THE FIELD. THE TRUSS MANUFACTURER SHALL PROVIDE ALL REPAIR DETAILS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS, UNLESS NOTED OTHERWISE.

W-SHAPES & WT-SHAPES	ASTM A992
SQUARE AND RECTANGULAR TUBES (HSS)	ASTM A500, GRADE C
ROUND TUBES (HSS)	ASTM A500, GRADE C
PIPE	ASTM A53, GRADE B
M-SHAPES & S-SHAPES	ASTM A572, GRADE 50
CHANNELS	ASTM A992
ANGLES	ASTM A572, GRADE 50
PLATES, RODS, AND CONNECTING MATERIALS	ASTM A572, GRADE 50

2. BOLTS AND ANCHORS:
   - 2.1. BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE) WITH MINIMUM 3/4 INCH DIAMETER, ASTM F3125, GRADE A325 BOLTS. ALL MOMENT FRAME AND BRACED FRAME CONNECTIONS SHALL BE SLIP-CRITICAL CONNECTIONS WITH MINIMUM 3/4 INCH DIAMETER ASTM F3125, GRADE A325 BOLTS. FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF PRETENSIONING SHALL BE EITHER TURN-OF-NUT WITH MATCHMARKING, DIRECT TENSION INDICATORS (ASTM F959), OR TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F3125, GRADE F1852/GRADE F2280).
   - 2.2. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HEADED RODS OR THREADED RODS WITH A HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, UNLESS NOTED OTHERWISE.
   - 2.3. HEADED STUDS SHALL CONFORM TO ASTM A29/A108, GRADE 1010-1020, TYPE B. INSTALL HEADED STUDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
   - 2.4. COMPOSITE SHEAR STUDS SHALL CONFORM TO ASTM A29/A108, GRADE 1010-1020, TYPE B. INSTALL COMPOSITE SHEAR STUDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
   - 2.5. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A1064, TYPE C. INSTALL DEFORMED BAR ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
3. WELDED CONNECTIONS
   - 3.1. PROVIDE WELDED CONNECTIONS IN ACCORDANCE WITH ANSI/AWS D1.1.
   - 3.2. PROVIDE 70 KSI, LOW HYDROGEN WELDING CONSUMABLES FOR ALL CONNECTIONS UNLESS NOTED OTHERWISE.
4. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
5. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE ULTIMATE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS.
   - 5.1. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
   - 5.2. THE STRUCTURAL DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR.
   - 5.3. STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THE DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWING AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING THE ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN.
6. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.
7. PROVIDE THE FOLLOWING SHEAR CONNECTORS FOR USE IN COMPOSITE BEAMS UNLESS NOTED OTHERWISE (LENGTHS SHOWN ARE PRIOR TO WELDING):
   - 3 INCH DECK 3/4 INCH DIAMETER x 4-7/8 INCH LONG HEADED STUDS
8. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

STEEL JOISTS

1. STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI). THE STEEL JOIST MANUFACTURER SHALL BE CERTIFIED BY THE STEEL JOIST INSTITUTE (SJI).
2. STEEL ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UNIFORM UPLIFT LOAD DETERMINED USING THE MAXIMUM DEAD LOAD USED FOR UPLIFT SHOWN IN THE CODE AND DESIGN CRITERIA AND THE APPLICABLE COMPONENTS AND CLADDING PRESSURES.
3. ALL JOISTS SHALL HAVE A MINIMUM ALLOWABLE ROLLOVER CAPACITY OF 1.5 KIPS AND USE A MINIMUM FACTOR OF SAFETY OF 2.0.
4. BRIDGING SHALL BE DESIGNED TO FULLY BRACE TOP CHORD OF JOISTS UNDER SERVICE LOADS FOR ROOF JOISTS NOT BRACED BY STEEL ROOF DECK.
5. THE DESIGN OF STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. SUBMIT SHOP DRAWINGS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. SUBMITTALS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS, THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS, AND THE CONTRACTOR'S INTERPRETATION OF THE CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS.
7. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND ERECTION OF WALLS, BEAM FRAMING, METAL DECKING, ETC. TO ENSURE COMPATIBILITY OF ROOF AND WALL SYSTEMS CONSIDERING PITCH AND CAMBER OF STEEL JOISTS.
8. THE CONTRACTOR SHALL COORDINATE THE JOIST SEAT DEPTH BETWEEN JOIST MANUFACTURER AND STEEL DETAILER. THE SHOP DRAWINGS MUST INDICATE THE JOIST SEAT DEPTH.
9. JOISTS THAT SUPPORT CONCENTRATED LOADS SHALL HAVE THOSE LOADS LOCATED WITHIN 3 INCHES OF JOIST PANEL POINTS OR JOISTS SHALL BE REINFORCED PER JOIST REINFORCING DETAIL. CONCENTRATED LOADS SHALL BE CENTERED ON JOISTS AND NOT ATTACHED TO THE EDGE OF CHORD ANGLES.
10. SPECIAL JOISTS THAT REQUIRE SPECIFIC ORIENTATION SHALL BE TAGGED AT ONE END. DEFINE LOCATION OF TAGGED END ON ERECTION DRAWING.

STEEL DECK

1. STEEL DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS.
2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
   - 2.1. TYPICAL 1-1/2 INCH STEEL ROOF DECK

DECK DEPTH	d = 1-1/2 INCH
DECK THICKNESS	t = 0.0358 INCH (20 GAGE)
POSITIVE EFFECTIVE MOMENT OF INERTIA	I_{d+} = 0.197 IN^4/FT
NEGATIVE EFFECTIVE MOMENT OF INERTIA	I_{d-} = 0.217 IN^4/FT
POSITIVE EFFECTIVE SECTION MODULUS	S_{e+} = 0.224 IN^3/FT
NEGATIVE EFFECTIVE SECTION MODULUS	S_{e-} = 0.229 IN^3/FT
DECK YIELD STRESS	F_y = 50 KSI
DECK FINISH	G60 GALVANIZED COATING, PAINTED

   - 2.2. TYPICAL STEEL ROOF DECK

DECK DEPTH	d = 3 - INCH
DECK THICKNESS	t = 0.0358 INCH (20 GAGE)
POSITIVE EFFECTIVE MOMENT OF INERTIA	I_{d+} = 0.919 IN^4/FT
NEGATIVE EFFECTIVE MOMENT OF INERTIA	I_{d-} = 0.921 IN^4/FT
POSITIVE EFFECTIVE SECTION MODULUS	S_{e+} = 0.512 IN^3/FT
NEGATIVE EFFECTIVE SECTION MODULUS	S_{e-} = 0.539 IN^3/FT
DECK YIELD STRESS	F_y = 50 KSI
DECK FINISH	G60 GALVANIZED COATING, PAINTED

3. STEEL DECK DESIGN IS SPECIFIED BASED ON A THREE-SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITION.
4. FASTEN STEEL DECK AS INDICATED IN THE STRUCTURAL DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CALCULATIONS AND PRODUCT DATA FOR ALTERNATE CONNECTION METHODS SUBJECT TO APPROVAL BY THE STRUCTURAL DESIGN PROFESSIONAL.
5. HANGING LOADS ARE NOT PERMITTED ON STEEL ROOF DECK.
6. CONTRACTOR TO COORDINATE DECK VENTING REQUIREMENTS WITH LIGHTWEIGHT INSULATING CONCRETE ROOF SYSTEM.

COLD-FORMED STEEL FRAMING

1. COLD-FORMED STEEL FRAMING AND THE CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. THE DESIGN AND DETAILING SHALL CONFORM TO AISI S100 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND THE PROJECT SPECIFICATIONS.
2. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. SUBMITTALS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
3. ALL COLD-FORMED STEEL FRAMING SHALL HAVE A MINIMUM THICKNESS OF 33 MILS (20 GA) AND MEET THE MINIMUM STRUCTURAL PROPERTIES FROM AISI S100 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS. THE MINIMUM WIDTH OF FRAMING MEMBERS SHALL BE 1 5/8 INCH, AND THE LIP LENGTH OF "C" PORTION SHALL BE 1/2 INCH.
4. PROVIDE COLD-FORMED STEEL FRAMING IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE

54 MIL (16 GA) AND THICKER	ASTM A1003, GRADE 50, TYPE H (ST50H)
43 MIL (18 GA) AND THINNER	ASTM A1003, GRADE 33, TYPE H (ST33H)
ACCESSORIES, TRACK, AND OTHER MEMBERS	ASTM A1003, GRADE 33, TYPE H (ST33H), MIN.

5. COLD-FORMED STEEL FRAMING MANUFACTURERS SHALL BE CERTIFIED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA).
6. WALL STUDS AS BACKING TO MASONRY OR STONE VENEER SHALL HAVE A MINIMUM THICKNESS OF 43 MILS (18 GA).
7. ALL STRUCTURAL JOISTS AND STUDS SHALL HAVE A MINIMUM OF 10 INCHES ON UNPUNCHED WEB AT BEARING OR SUPPORT POINTS.
8. COLD-FORMED STEEL FRAMING AND BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE AISI STANDARDS AND THE MANUFACTURER'S INSTRUCTIONS UNLESS OTHERWISE REQUIRED BY THE DEFERRED DESIGN ENGINEER.
9. HORIZONTAL BRACING FOR WALL STUDS SHALL BE PLACED AT A MAXIMUM OF 48 INCHES ON CENTER OR AS REQUIRED BY THE DEFERRED DESIGN ENGINEER IF LESS THAN 48 INCHES ON CENTER. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED FLANGE BRACING UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
10. BRIDGING FOR JOISTS SHALL BE PLACED AT A MAXIMUM OF 8 FEET ON CENTER OR AS REQUIRED BY THE DEFERRED DESIGN ENGINEER IF LESS THAN 8 FEET ON CENTER. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
11. COLD-FORMED STEEL STRUCTURAL MEMBERS MAY BE ATTACHED BY EITHER WELDS OR SCREWS SIZED BY THE DEFERRED DESIGN ENGINEER FOR THE DESIGN LOADS SPECIFIED IN THE CONTRACT DOCUMENTS.
12. WELD COLD-FORMED STEEL FRAMING IN ACCORDANCE WITH AWS D1.3 STRUCTURAL WELDING CODE — SHEET STEEL. DO NOT WELD 33 MIL (20 GA) AND THINNER MATERIAL, UNLESS SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS.
    - 12.1. ALL WELDING SHALL BE PERFORMED BY A WELDER QUALIFIED FOR WELDING SHEET STEEL IN ACCORDANCE WITH AWS D1.3 STRUCTURAL WELDING CODE — SHEET STEEL. FIELD WELDING SHALL BE PERFORMED WITH E60XX ELECTRODES.
    - 12.2. TOUCH UP WELDS WITH ZINC-RICH PAINT (ASTM A780).
13. PLACE JOISTS DIRECTLY OVER BEARING WALL STUDS WITH WEBS ALIGNED. ALL AXIALLY LOADED WALL STUDS SHALL HAVE A MAXIMUM ALLOWABLE GAP BETWEEN THE WEB OF THE STUD AND THE WEB OF THE TRACK OF 1/8 INCH BEFORE ATTACHMENT OF TRACK. TRACK SHALL HAVE FULL BEARING ON STRUCTURE.
14. PROVIDE FULL DEPTH BLOCKING BETWEEN JOISTS AT SUPPORTS WHERE JOISTS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
15. SPLICES IN AXIALLY LOADED STUDS, JOISTS, HEADERS, OR OTHER LOAD CARRYING MEMBERS ARE NOT PERMITTED.
16. INSTALLATION OF BRIDGING MUST BE COMPLETE BEFORE ANY LOADS ARE APPLIED TO THE SYSTEM. TERMINATE BRIDGING AT JAMBS, CORNER STUDS, OR COLUMNS. BRACE STUDS AGAINST ROTATION.

ABBREVIATIONS

ADDL	ADDITIONAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AOR	ARCHITECT OF RECORD
ARCH	ARCHITECT / ARCHITECTURAL
B/xxx	BOTTOM OF xxx
BFF	BELOW FINISHED FLOOR
BOT	BOTTOM
BRG	BEARING
CFMF	COLD FORMED METAL FRAMING
CJ	CONTRACTION JOINT / CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CS	COLUMN STRIP
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DEG	DEGREE
DIA	DIAMETER
DTL	DETAIL
DWG	DRAWING
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EMBED	EMBEDMENT / EMBEDDED
ENG	ENGINEER / ENGINEERING
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/xxx	FACE OF xxx
FD	FLOOR DRAIN
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP	GYPSUM
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
ICF	INSULATED CONCRETE FORMS
IF/xxx	INSIDE FACE OF xxx
INT	INTERIOR
JBE	JOIST BEARING ELEVATION

ABBREVIATIONS

JT	JOINT
K	KIPS
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LF	LINEAR FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LW	LIGHT WEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURER / MANUFACTURING
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MIDDLE STRIP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OF/xxx	OUTSIDE FACE OF xxx
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAF	POWER / POWDER ACTUATED FASTENER
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
QTY	QUANTITY
RD	ROOF DRAIN
REF	REFER TO
REINF	REINFORCING / REINFORCEMENT
REQD	REQUIRED
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SDS	SELF-DRILLING SCREWS
SF	SQUARE FEET
SIM	SIMILAR
SP	SPECIAL
SPA	SPACE / SPACING
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURE / STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
T	TOP
T/xxx	TOP OF xxx
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

ACI BOLAND ARCHITECTS

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COA# 001268 EXP: 12/31/27

STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2008024305
PROFESSIONAL ENGINEER
09.29.2026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
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SHEET TITLE:
DESIGN PARAMETERS AND GENERAL NOTES

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S-002

SEPTEMBER 30, 2026

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ROOF ZONES
ZONE 1'
ZONE 1
ZONE 2
ZONE 3
ZONE 3'
WALL ZONES
ZONE 4
ZONE 5

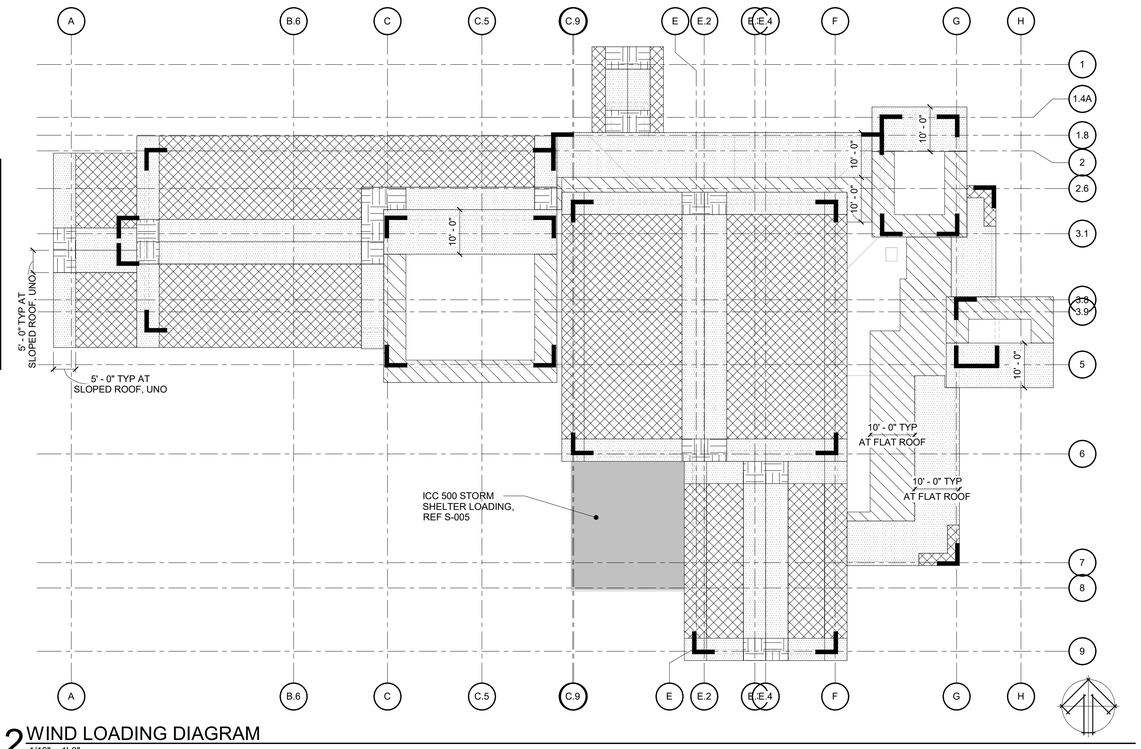
COMPONENTS & CLADDING ULTIMATE PRESSURE SCHEDULE (LRFD)

EFFECTIVE WIND AREA	ROOF						OVERHANG			WALL		PARAPET	
	ZONE 1	ZONE 1'	ZONE 2	ZONE 2'	ZONE 3	ZONE 3'	ZONE 1OH	ZONE 2OH	ZONE 3OH	ZONE 4	ZONE 5 (NOTE 3)	ZONE 4	ZONE 5 (NOTE 3)
10 SF	+16.5 PSF -41.1 PSF	+16 PSF -34.2 PSF	+16.5 PSF -54.1 PSF	-- --	+16.5 PSF -73.8 PSF	+16.5 PSF -87.3 PSF	-57.7 PSF	-80.8 PSF	-108.6 PSF	+23.6 PSF -25.5 PSF	+23.6 PSF -31.4 PSF	+/-73.9 PSF	+/-94 PSF
20 SF	+16 PSF -38.3 PSF	+16 PSF -32.8 PSF	+16 PSF -50.7 PSF	-- --	+16 PSF -66.8 PSF	+16 PSF -74.5 PSF	-57.7 PSF	-73.4 PSF	-91.9 PSF	+22.5 PSF -24.5 PSF	+22.5 PSF -29.3 PSF	+/-69.1 PSF	+/-85.7 PSF
50 SF	+16 PSF -34.7 PSF	+16 PSF -31 PSF	+16 PSF -46.1 PSF	-- --	+16 PSF -57.6 PSF	+16 PSF -58.2 PSF	-44.6 PSF	-63.5 PSF	-69.8 PSF	+21.1 PSF -23.1 PSF	+21.1 PSF -26.6 PSF	+/-62.8 PSF	+/-74.7 PSF
100 SF	+16 PSF -32 PSF	+16 PSF -29.6 PSF	+16 PSF -42.6 PSF	-- --	+16 PSF -50.7 PSF	+16 PSF -50.7 PSF	-34.6 PSF	-53.1 PSF	-56.1 PSF	+20.1 PSF -22.1 PSF	+20.1 PSF -24.5 PSF	+/-58.1 PSF	+/-66.4 PSF
500 SF	+16 PSF -29.3 PSF	+16 PSF -20.3 PSF	+16 PSF -31.9 PSF	-- --	+16 PSF -50.4 PSF	+16 PSF -50.4 PSF	-34.6 PSF	-38.8 PSF	-53.1 PSF	+17.7 PSF -19.6 PSF	+17.7 PSF -19.6 PSF	+/-47 PSF	+/-47 PSF

NOTES:
1. (+) AND (-) SIGNS INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACE, RESPECTIVELY.
2. ZONE 5 INCLUDES AREAS OF BUILDING WALLS 5'-0" FROM PROMINENT BUILDING CORNERS IN EACH DIRECTION. ZONE 4 INCLUDES ALL AREAS OF BUILDING WALLS OTHER THAN ZONE 5.
3. REFER TO LEGEND FOR ROOF AND WALL AREAS ZONES.
4. ZONE 3OH INCLUDES OVERHANG AREAS 5'-0" FROM GABLE PEAKS AND CORNERS, ZONE 2OH INCLUDES OVERHANG AREAS AT GABLE ROOFS OTHER THAN ZONE 3OH, ZONE 1OH INCLUDES ALL OVERHANG AREAS OTHER THAN ZONE 2OH AND ZONE 3OH

TMS 402/602-16 SPECIAL INSPECTION REQUIREMENTS - 2018

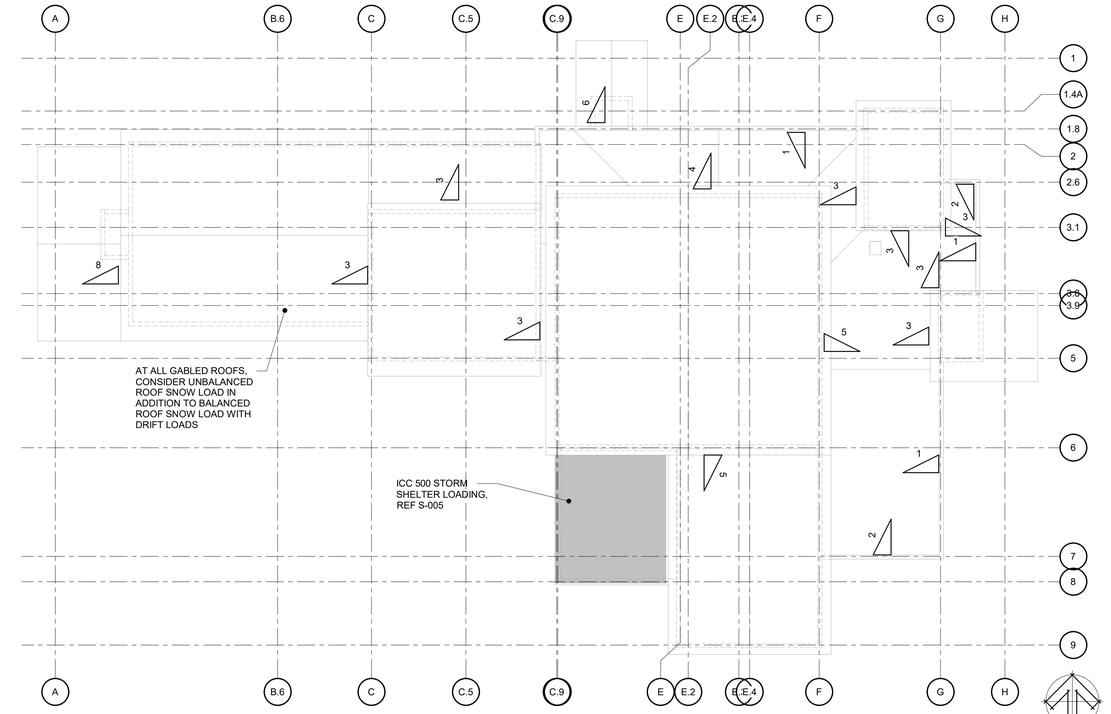
			CONTINUOUS	PERIODIC
MASONRY CONSTRUCTION - LEVEL 1 QUALITY ASSURANCE (TMS 402 TABLE 3.1.1)				
		MINIMUM VERIFICATION REQUIREMENTS		
1.		PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.		
MASONRY CONSTRUCTION - LEVEL 2 QUALITY ASSURANCE (TMS 402 TABLE 3.1.2 - RISK CATEGORY I, II OR III)				
		MINIMUM VERIFICATION REQUIREMENTS		
1.		PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS		
2.		PRIOR TO CONSTRUCTION, VERIFICATION OF f'm and f'AAC, EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE		
3.		DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISION STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATED GROUT IS DELIVERED TO THE PROJECT SITE		
		SPECIAL INSPECTION REQUIREMENTS		
1.		AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
	A.	PROPORTIONS OF SITE-PREPARED MORTAR	---	X
	B.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	---	X
	C.	GRADE, TYPE AND SIZE OF REINFORCEMENT CONNECTORS, ANCHOR BOLTS, AND PRESRESSING TENDONS AND ANCHORAGES	---	X
	D.	PRESTRESSING TECHNIQUE.	---	X
	E.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	X
	F.	SAMPLE PANEL CONSTRUCTION	---	X
2.		PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
	A.	GROUT SPACE	---	X
	B.	PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	---	X
	C.	SIZE AND LOCATION OF STRUCTURAL MEMBERS	---	X
	D.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	---	X
3.		VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:		
	A.	MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	---	X
	B.	PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	---	X
	C.	SIZE AND LOCATION OF STRUCTURAL MEMBERS	---	X
	D.	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	---	X
	E.	WELDING OF REINFORCEMENT	X	X
	F.	PREPARATION, CONSTRUCTION, AND PROTECTIONS OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 50 DEGREES) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES)	---	X
	G.	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	---
	H.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	---
	I.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	X
4.		OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	---	X



2 WIND LOADING DIAGRAM
1/16" = 1'-0"

SNOW DRIFT LOADS
1 — Wd = 7.1 FT, Pd = 14.1 PSF
2 — Wd = 10.8 FT, Pd = 21.5 PSF
3 — Wd = 7.4 FT, Pd = 29.4 PSF
4 — Wd = 12.2 FT, Pd = 48.3 PSF
5 — Wd = 9.5 FT, Pd = 37.7 PSF
6 — Wd = 4.5 FT, Pd = 17.7 PSF
7 — Wd = 9.4 FT, Pd = 18.8 PSF
8 — Wd = 8.35 FT, Pd = 16.64 PSF
Pd / 1 / Wd

SNOW DRIFT LOADS SHALL BE APPLIED IN ADDITION TO BALANCED ROOF SNOW LOAD PER GENERAL NOTES



1 SNOW LOADING DIAGRAM
1/16" = 1'-0"

STATE OF MISSOURI
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STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2009024305
PROFESSIONAL ENGINEER
09.29.2026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
DRAWN BY: RPT
CHECKED BY: DLS
DESIGNED BY: RLH

SHEET TITLE:
DESIGN PARAMETERS & SPEC INSPECTIONS

SHEET NUMBER:
S-003

77 OF 133

SEPTEMBER 30, 2026

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SPECIAL INSPECTION REQUIREMENTS (2018)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION 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 AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.
5. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

IBC 2018 REQUIRED SPECIAL INSPECTIONS

			FREQUENCY OF INSPECTION	
			CONTINUOUS	PERIODIC
		STEEL CONSTRUCTION - STRUCTURAL STEEL (IBC SECTION 1705.2.1)		
1.		SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-16.		
		STEEL CONSTRUCTION - COLD FORMED STEEL DECK (IBC SECTION 1705.2.2)		
1.		SPECIAL INSPECTION AND QUALIFICATIONS OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI. QA/QC.		
		STEEL CONSTRUCTION - OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3)		
1.		INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS		
	A.	END CONNECTIONS - WELDING OR BOLTED	---	X
	B.	BRIDGING - HORIZONTAL OR DIAGONAL		
		1. STANDARD BRIDGING	---	X
		2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	---	X
		STEEL CONSTRUCTION - COLD-FORMED STEEL TRUSSES (IBC SECTION 1705.2.2.2)		
1.		VERIFICATION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE AT COLD-FORMED STEEL TRUSSES WITH A CLEAR SPAN OF 60'-0" OR GREATER.	---	X
		CONCRETE CONSTRUCTION (IBC TABLE 1705.3)		
1.		INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X
2.		REINFORCING BAR WELDING:		
	A.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	---	X
	B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
	C.	INSPECT ALL OTHER WELDS	X	
3.		INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a)		
	A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
	B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4 A.		X
5.		VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.		INSPECT CONCRETE AND SHOTCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES.	X	---
8.		VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
9.		INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X
10.		VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X
11.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS.		
		MASONRY CONSTRUCTION (IBC SECTION 1705.4)		
1.		MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/602-16.		
		SOILS (IBC TABLE 1705.6)		
1.		VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2.		VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3.		PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4.		VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5.		PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X
		COMPACTED AGGREGATE PIERS (IBC 1705)		
1.		VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	---
2.		DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIOAL LOAD TESTS, AS REQUIRED.	X	---
3.		INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	---
4.		VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER	X	---
5.		FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	---	---
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT CONTINUOUSLY WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

AISC 360-16 SPECIAL INSPECTION REQUIREMENTS - 2018

1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS.
3. NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE (QA).
4. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
5. FOR WORK PERFORMED BY APPROVED FABRICATORS AND ERECTORS:
   A. QA INSPECTIONS, MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA.
   B. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
   C. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
   D. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

AISC 360-16, CHAPTER N SPECIAL INSPECTION REQUIREMENTS - 2018

			FREQUENCY OF INSPECTION	
			PERFORM	OBSERVE
N5.4 - INSPECTION OF WELDING				
		AISC 360-16, TABLE N5.4-1 - INSPECTION TASKS PRIOR TO WELDING		
1.		WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	---	X
2.		WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X	---
3.		MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	---
4.		MATERIAL IDENTIFICATION (TYPE/GRADE)	---	X
5.		WELDER IDENTIFICATION SYSTEM (a)	---	X
6.		FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		
	A.	JOINT PREPARATION	---	X
	B.	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	---	X
	C.	CLEANLINESS (CONDITION OF STEEL SURFACES)	---	X
	D.	TACKING (TACK WELD QUALITY AND LOCATION)	---	X
	E.	BACKING TYPE AND FIT (IF APPLICABLE)	---	X
7.		FIT-UP OF CJP GROOVE WELDS OF HSS, T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)		
	A.	JOINT PREPARATIONS	---	X
	B.	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	---	X
	C.	CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X
	D.	TACKING (TACK WELD QUALITY AND LOCATION)	---	X
8.		CONFIGURATION AND FINISH OF ACCESS HOLES	---	X
9.		FIT-UP OF FILLET WELDS		
	A.	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	---	X
	B.	CLEANLINESS (CONDITION OF STEEL SURFACES)	---	X
	C.	TACKING (TACK WELD QUALITY AND LOCATION)	---	X
		AISC 360-16, TABLE N5.4-2 - INSPECTIONS DURING WELDING		
1.		CONTROL AND HANDLING OF WELDING CONSUMABLES		
	A.	PACKAGING	---	X
	B.	EXPOSURE CONTROL	---	X
2.		NO WELDING OVER CRACKED TACK WELDS	---	X
3.		ENVIRONMENTAL CONDITIONS		
	A.	WIND SPEED WITHIN LIMITS	---	X
	B.	PRECIPITATION AND TEMPERATURE	---	X
4.		WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED		
	A.	SETTINGS ON WELDING EQUIPMENT	---	X
	B.	TRAVEL SPEED	---	X
	C.	SELECTED WELDING MATERIALS	---	X
	D.	SHIELDING GAS TYPE / FLOW RATE	---	X
	E.	PREHEAT APPLIED	---	X
	F.	INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)	---	X
	G.	PROPER POSITION (F, V, H, OH)	---	X
5.		WELDING TECHNIQUES		
	A.	INTERPASS AND FINAL CLEANING	---	X
	B.	EACH PASS WITHIN PROFILE LIMITATIONS	---	X
	C.	EACH PASS MEETS QUALITY REQUIREMENTS	---	X
6.		PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	---
		AISC 360-16, TABLE N5.4-3 - INSPECTION TASKS AFTER WELDING		
1.		WELDS CLEANED	---	X
2.		SIZE, LENGTH AND LOCATION OF WELDS	X	---
3.		WELDS MEET VISUAL ACCEPTANCE CRITERIA		
	A.	CRACK PROHIBITION	X	---
	B.	WELD/BASE-METAL FUSION	X	---
	C.	CRATER CROSS SECTION	X	---
	D.	WELD PROFILES	X	---
	E.	WELD SIZE	X	---
	F.	UNDERCUT	X	---
	G.	POROSITY	X	---
4.		ARC STRIKES	X	---
5.		k-AREA (b)	X	---
6.		WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (c)	X	---
7.		BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	---
8.		REPAIR ACTIVITIES	X	---
9.		DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	---
10.		NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	---	X
11.		ULTRASONIC TESTING (UT) ON ALL CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 INCH THICK OR GREATER (required in Risk Category III or IV)	X	---
12.		ULTRASONIC TESTING (UT) ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 INCH THICK OR GREATER (required in Risk Category II)	---	X
13.		THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING (MT) OR PENETRANT TESTING (PT), WHEN FLANGE THICKNESS EXCEEDS 2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 INCHES FOR BUILT-UP SHAPES	X	---
14.		(see AISC 360-16, section N5-5c for additional special inspections for welded joints subject to fatigue)		
	(a)	THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE.		
	(b)	WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.		
	(c)	AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES HAVE BEEN WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE PER CRACKS.		
		** PERFORM - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.		
		** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		
N5.6 - INSPECTION OF HIGH-STRENGTH BOLTS				
		AISC 360-16, TABLE N5.6-1 - INSPECTION TASKS PRIOR TO BOLTING		
1.		MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	---
2.		FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	---	X
3.		CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH) IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE	---	X
4.		CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAIL	---	X
5.		CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	---	X

AISC 360-16, CHAPTER N SPECIAL INSPECTION REQUIREMENTS - 2018

			FREQUENCY OF INSPECTION	
			PERFORM	OBSERVE
6.		PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	---	X
7.		PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	---	X
		AISC 360-16, TABLE N5.6-2 - INSPECTIONS DURING BOLTING		
1.		FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	---	X
2.		JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	---	X
3.		FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	---	X
4.		FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	---	X
		AISC 360-16, TABLE N5.6-3 - INSPECTIONS AFTER BOLTING		
1.		DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	---
		** PERFORM - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.		
		** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		
N5.7 - OTHER INSPECTION TASKS				
1.		INSPECTION OF GALVANIZED STEEL STRUCTURAL MAIN MEMBERS EXPOSED CUT SURFACES OF GALVANIZED MAIN MEMBERS AND EXPOSED CORNERS OF HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING.	X	---
N5.8 - OTHER INSPECTION TASKS				
1.		INSPECT THE STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.	X	---
2.		INSPECT THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE	X	---
		** PERFORM - PERFORM THESE TASKS FOR EACH CONNECTION.		
		** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		

SDI QA/QC - 2017 SPECIAL INSPECTION REQUIREMENTS - 2018

1. QUALITY CONTROL (QC) AS SPECIFIED IN THE STANDARD SHALL BE PROVIDED BY THE INSTALLER.
2. QUALITY ASSURANCE (QA) AS SPECIFIED IN THE STANDARD SHALL BE PROVIDED BY THE OWNER'S DESIGNATED REPRESENTATIVE.
3. THE QUALITY ASSURANCE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE AHJ AND SATISFY THE QUALIFICATIONS NOTED IN SECTION 3.2 OF THE STANDARD.

SDI QA/QC - 2017 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK - 2018

		FREQUENCY OF INSPECTION	
		PERFORM	OBSERVE
	TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT		
A.	VERIFY COMPLIANCE OF MATERIALS(DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	X	---
B.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X	---
	TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT		
A.	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	X	---
B.	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	X	---
C.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X	---
	TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING		
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	---	X
B.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	---	X
C.	MATERIAL IDENTIFICATION (TYPE/GRADE)	---	X
D.	CHECK WELDING EQUIPMENT	---	X
	TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING		
A.	USE OF QUALIFIED WELDERS	---	X
B.	CONTROL AND HANDLING OF WELDING CONSUMABLES	---	X
C.	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE	---	X
D.	WPS FOLLOWED	---	X
	TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING		
A.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	X	---
B.	WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	---
C.	VERIFY REPAIR ACTIVITIES	X	---
D.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X	---
	TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING		
A.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	---	X
B.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	---	X
C.	PROPER STORAGE FOR MECHANICAL FASTENERS	---	X
	TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING		
A.	FASTENERS ARE POSITIONED AS REQUIRED	---	X
B.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	---	X
	TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING		
A.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	X	---
B.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	X	---
C.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	X	---
D.	VERIFY REPAIR ACTIVITIES	X	---
E.	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X	---
	** PERFORM - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.		
	** OBSERVE - INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.		

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DEPARTMENT OF Corrections

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PROJECT # C2512-01
SITE # 7033
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STORM SHELTER — CODE AND DESIGN CRITERIA

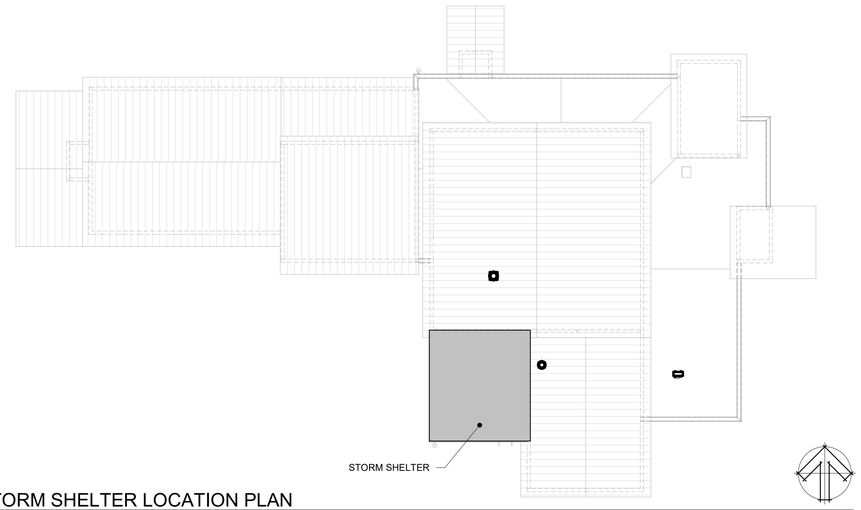
1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - INTERNATIONAL BUILDING CODE, 2018 EDITION WITH LOCAL AMENDMENTS
   - ICC 500-2014, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
2. STORM SHELTER TYPE
   - COMMUNITY TORNADO SHELTER
3. STORM SHELTER OCCUPANTS
   - BUILDING OCCUPANTS
4. GRAVITY LOADS
   - 4.1. ROOF DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):
     - ROOFING (INCLUDING ELASTIZELL) 7 PSF
     - INSULATION 3 PSF
     - MEP ALLOWANCE 5 PSF
     - CEILING ALLOWANCE 2 PSF
     - MISCELLANEOUS 10 PSF
     - SPRINKLERS 2 PSF
     - MAXIMUM DEAD LOAD USED FOR UPLIFT 50 PSF
   - 4.2. UNIFORM ROOF LIVE LOADS:
     - TORNADO SHELTER ROOF 100 PSF
5. WIND DESIGN DATA
   - TORNADO SHELTER DESIGN WIND SPEED V_T = 250 MILES/HOUR
   - WIND EXPOSURE EXPOSURE C
   - INTERNAL PRESSURE COEFFICIENT GC_{pi} = +/- 0.55
   - TOPOGRAPHIC FACTOR K_{zt} = 1.00
   - DIRECTIONALITY FACTOR K_d = 1.00
   - COMPONENTS AND CLADDING DESIGN WIND PRESSURES (LRFD)
     - ROOF
       - ZONE 1' -197.1 PSF/ 115.6 PSF WHEN ZONE 2 AND ZONE 3 DO NOT APPY
       - ZONE 1 -305.9 PSF / 115.6 PSF 14'-4" FROM RIDGE & ROOF EDGE IN EA DIRECTION
       - ZONE 2 -387.5 PSF / 115.6 PSF 7'-2" FROM RIDGE & ROOF EDGE IN EA DIRECTION
       - ZONE 3 -509.8 PSF / 115.6 PSF 7'-2 FROM ROOF CORNER IN EA DIRECTION
     - WALLS
       - ZONE 4 -209.4 PSF / 197.1 PSF WHEN ZONE 5 DOES NOT APPLY.
       - ZONE 5 -246.1 PSF / 197.1 PSF
     - COMPONENTS AND CLADDING WIND PRESSURES LISTED ABOVE ARE BASED UPON AN EFFECTIVE WIND AREA OF 10 SQUARE FEET. POSITIVE PRESSURES INDICATE WIND LOADING TOWARD THE SURFACE. NEGATIVE PRESSURES INDICATE WIND LOADING AWAY FROM THE SURFACE.
6. FLOOD DESIGN DATA
   - THE SHELTER HAS NOT BEEN CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO
   - FLOODING IN ACCORDANCE WITH CHAPTER 4 OF ICC 500.
7. DEBRIS HAZARD INFORMATION
   - 7.1. MISSILE CRITERIA FOR TORNADO SHELTERS
     - PROJECTILE: 15 POUND SAWN LUMBER 2X4
     - TRAVEL SPEEDS: 100 MILES/HOUR (VERTICAL SURFACES), 67 MILES/HOUR (HORIZONTAL SURFACES)
8. LOAD COMBINATIONS
   - ELEMENTS OF THE SHELTER SHALL BE DESIGNED FOR THE LOAD COMBINATIONS OF THE INTERNATIONAL BUILDING CODE AND THE MODIFIED LOAD COMBINATIONS OF ICC 500.
   - REFER TO THE GENERAL NOTES SHEET FOR DESIGN CRITERIA NOT SPECIFIED IN ICC 500.

STORM SHELTER — GENERAL

1. THE FOLLOWING COMPONENTS OF THE SHELTER ENVELOPE HAVE BEEN TESTED TO MEET THE DEBRIS IMPACT MISSILE REQUIREMENTS REFERENCED IN THE DESIGN CRITERIA:
   - 1.1. ROOF SYSTEM:
     - A MINIMUM OF 3 INCH, NORMALWEIGHT CONCRETE SLAB REINFORCED WITH AT LEAST #4@12" EACH WAY.
   - 1.2. WALL SYSTEM:
     - A MINIMUM OF 8 INCH, FULLY GROUTED CMU WALL WITH AT LEAST #4@8" VERTICAL REINFORCING.
   - 1.3. TESTING WAS PERFORMED AT THE WIND SCIENCE AND ENGINEERING RESEARCH CENTER OF TEXAS TECH UNIVERSITY AND PUBLISHED IN THE "CONSTRUCTION MATERIAL THRESHOLD REPORT," DATED NOVEMBER 2004.
2. EXTERIOR DOORS, WINDOWS, LOUVERS, OR OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL MEET THE SPECIFIED DEBRIS IMPACT MISSILE CRITERIA USING THE REQUIRED TEST METHODS OF CHAPTER 3 AND CHAPTER 8 OF ICC 500.
3. EXTERIOR DOORS, WINDOWS, LOUVERS, OR OTHER GLAZING ELEMENTS SHALL BE CONNECTED TO THE STRUCTURE PER THE MANUFACTURER'S LITERATURE. GENERAL CONTRACTOR SHALL COORDINATE MINIMUM WALL THICKNESS REQUIREMENTS AND EMBEDMENT REQUIREMENTS WITH MANUFACTURER'S LITERATURE PRIOR TO CONSTRUCTION.
4. STEEL COMPONENTS AND EMBEDMENTS EXPOSED TO THE EXTERIOR ELEMENTS SHALL HAVE CORROSION RESISTANCE AND PROTECTION.
5. GENERAL CONTRACTOR TO COORDINATE AND VERIFY ALL OPENING LOCATIONS AND SIZES WITH ARCHITECTURAL AND MEP DRAWINGS AND WITH ACTUAL EQUIPMENT PURCHASED. NOTIFY STRUCTURAL DESIGN PROFESSIONAL OF RECORD PRIOR TO FABRICATION IF OPENINGS CHANGE OR DIFFER FROM THOSE IN THE STRUCTURAL DRAWINGS.
6. ALL PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER SHALL BE PROTECTED BY AN ASSEMBLY MEETING THE SPECIFIED DEBRIS IMPACT MISSILE CRITERIA OR AS SHOWN IN THE CONSTRUCTION DOCUMENTS.
7. REFER TO MEP DOCUMENTS FOR PROTECTION ASSEMBLIES AT ROOF DRAINS, ROOF VENT OPENINGS, AND LOUVER OPENINGS.
8. CONTROL JOINTS IN CMU WALLS SHALL BE SEALED AS FOLLOWS:
   - 8.1. FOR JOINT WIDTHS 3/8 INCH OR LESS, JOINT SHALL BE SEALED WITH JOINT MATERIAL CONFORMING TO ASTM C920
9. REFER TO THE GENERAL NOTES SHEETS FOR ADDITIONAL PROJECT NOTES.

STORM SHELTER — QUALITY ASSURANCE PLAN

1. THE FOLLOWING QUALITY ASSURANCE PLAN IS PREPARED AND PROVIDED FOR THE MAIN WIND-FORCE RESISTING SYSTEMS AND WIND RESISTING COMPONENTS AND CLADDING IN ORDER TO ESTABLISH MINIMUM REQUIREMENTS FOR QUALITY CONTROL OF THE SHELTER CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE ARCHITECTURAL DESIGN PROFESSIONAL, STRUCTURAL DESIGN PROFESSION, STRUCTURAL OBSERVER, GENERAL CONTRACTOR, RELATED CONTRACTORS, SPECIAL INSPECTOR, AND TESTING AGENCY.
3. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR EACH OF THE COMPONENTS LISTED BELOW. THESE ELEMENTS ARE PART OF THE MAIN WIND-FORCE RESISTING SYSTEM AND WIND RESISTING COMPONENTS AND CLADDING FOR THE SHELTER. THE FOLLOWING REFERS TO THE RELEVANT SPECIAL INSPECTION SECTIONS APPLICABLE TO EACH ELEMENT. REFER TO THE STATE MENT OF SPECIAL INSPECTIONS FOR THE TYPE AND FREQUENCY OF INSPECTIONS REQUIRED.
   - 3.1. SPREAD FOOTING FOUNDATIONS:
     - SOILS
     - CONCRETE
   - 3.2. CONCRETE SLAB-ON-GRADE:
     - CONCRETE
     - REINFORCING STEEL
   - 3.3. CMU WALLS:
     - MASONRY
     - REINFORCING STEEL
   - 3.4. STEEL COMPOSITE BEAM FRAMING:
     - CONCRETE
     - STEEL
   - 3.5. COMPOSITE STEEL DECK, HEADED STUD ANCHORS, AND CONCRETE FLOOR SLABS:
     - CONCRETE
     - STEEL
     - STEEL DECK
   - 3.6. PROTECTIONS FOR MEP PENETRATIONS:
     - CONCRETE
     - MASONRY
     - STEEL
     - POST-INSTALLED ANCHORS
   - 3.7. DOORS, WINDOW, LOUVERS, AND ROOF PROTECTION ASSEMBLIES:
     - CONCRETE
     - STEEL
     - POST-INSTALLED ANCHORS
4. THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO CONDUCT VISUAL OBSERVATIONS OF THE SHELTER FOR GENERAL CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATIONS DO NOT ELIMINATE OR REDUCE OTHER INSPECTIONS OR TESTING REQUIRED BY THIS STANDARD, THE APPLICABLE BUILDING CODE, OR THE AUTHORITY HAVING JURISDICTION.
5. THE FOLLOWING ARE THE MINIMUM SIGNIFICANT CONSTRUCTION STAGES THAT REQUIRE FIELD OBSERVATION FROM THE STRUCTURAL OBSERVER:
   - 5.1. AFTER INSTALLATION OF THE FIRST FOUNDATION REINFORCING STEEL AND BEFORE CONCRETE PLACEMENT.
   - 5.2. AFTER INSTALLATION OF WALL REINFORCING STEEL AND BEFORE FIRST LIFT OF GROUT PLACEMENT.
   - 5.3. AFTER INSTALLATION OF STEEL EMBEDDED PLATES IN CMU WALLS AND PRIOR TO PLACEMENT OF GROUT
   - 5.4. AFTER INSTALLATION OF STRUCTURAL STEEL FRAMING, COMPOSITE STEEL DECK, SHEAR STUDS, REINFORCING STEEL, AND BEFORE CONCRETE SLAB ON METAL DECK PLACEMENT.
   - 5.5. AFTER INSTALLATION OF FEMA LOUVERS, DOOR FRAMES, SHROUDS, OR OTHER OPENING PROTECTION SYSTEMS.
6. AT THE CONCLUSION OF THE WORK, THE REGISTERED DESIGN PROFESSIONAL WHO MADE THE STRUCTURAL OBSERVATIONS SHALL SUBMIT TO THE AUTHORITY HAVING JURISDICTION A WRITTEN STATEMENT THAT SITE VISITS WERE MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
7. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-FORCE RESISTING SYSTEM OR ANY COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, THE RESPONSIBLE DESIGN PROFESSIONAL, AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN:
   - 7.1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
   - 7.2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
   - 7.3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
   - 7.4. IDENTIFICATION OF QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.



STORM SHELTER LOCATION PLAN

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

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2303 WEST 20TH STREET
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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

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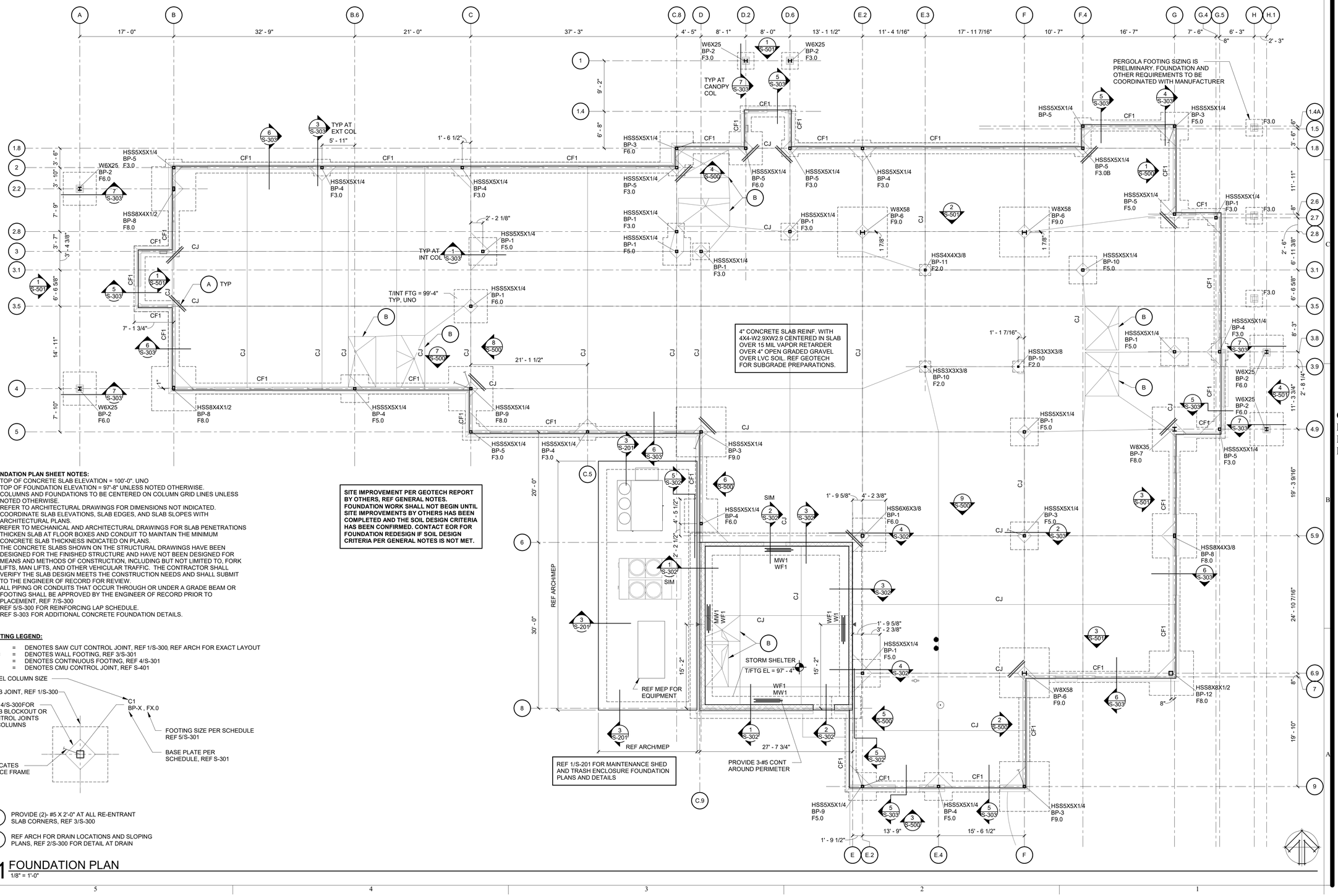
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FOUNDATION PLAN SHEET NOTES:

1. TOP OF CONCRETE SLAB ELEVATION = 100'-0". UNO
2. TOP OF FOUNDATION ELEVATION = 97'-8" UNLESS NOTED OTHERWISE.
3. COLUMNS AND FOUNDATIONS TO BE CENTERED ON COLUMN GRID LINES UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED. COORDINATE SLAB ELEVATIONS, SLAB EDGES, AND SLAB SLOPES WITH ARCHITECTURAL PLANS.
5. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SLAB PENETRATIONS
6. THICKEN SLAB AT FLOOR BOXES AND CONDUIT TO MAINTAIN THE MINIMUM CONCRETE SLAB THICKNESS INDICATED ON PLANS.
7. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, FORK LIFTS, MAN LIFTS, AND OTHER VEHICULAR TRAFFIC. THE CONTRACTOR SHALL VERIFY THE SLAB DESIGN MEETS THE CONSTRUCTION NEEDS AND SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW.
8. ALL PIPING OR CONDUITS THAT OCCUR THROUGH OR UNDER A GRADE BEAM OR FOOTING SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PLACEMENT, REF 7/S-300
9. REF S/S-300 FOR REINFORCING LAP SCHEDULE.
10. REF S-303 FOR ADDITIONAL CONCRETE FOUNDATION DETAILS.

FOOTING LEGEND:

CJ = DENOTES SAW CUT CONTROL JOINT, REF 1/S-300, REF ARCH FOR EXACT LAYOUT
WF# = DENOTES WALL FOOTING, REF 3/S-301
CF# = DENOTES CONTINUOUS FOOTING, REF 4/S-301
▶ = DENOTES CMU CONTROL JOINT, REF S-401

(A) PROVIDE (2)- #5 X 2'-0" AT ALL RE-ENTRANT SLAB CORNERS, REF 3/S-300

(B) REF ARCH FOR DRAIN LOCATIONS AND SLOPING PLANS, REF 2/S-300 FOR DETAIL AT DRAIN

1 FOUNDATION PLAN
1/8" = 1'-0"

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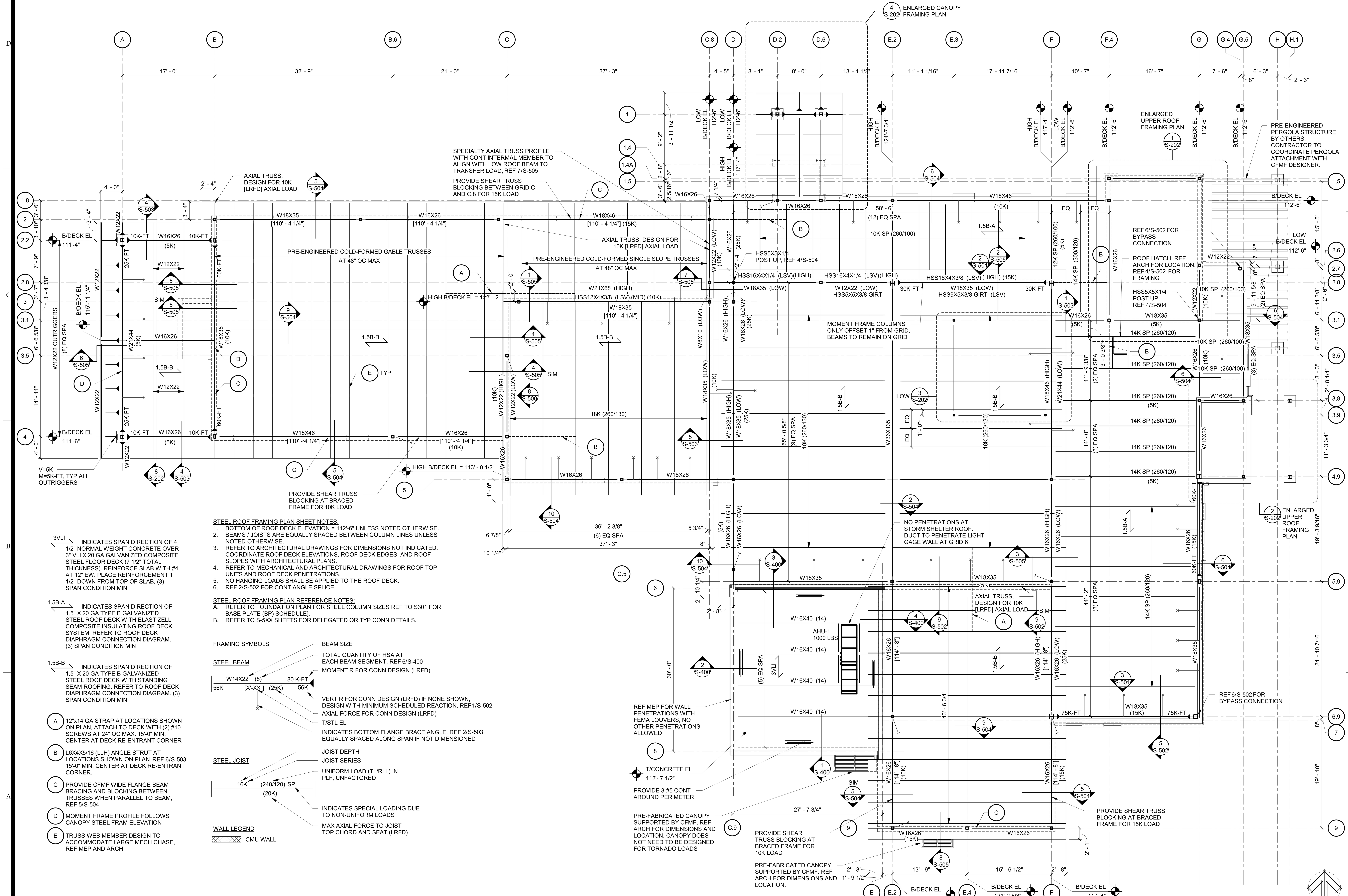
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STEEL ROOF FRAMING PLAN SHEET NOTES:
1. BOTTOM OF ROOF DECK ELEVATION = 112'-6" UNLESS NOTED OTHERWISE.
2. BEAMS / JOISTS ARE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS NOTED OTHERWISE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED. COORDINATE ROOF DECK ELEVATIONS, ROOF DECK EDGES, AND ROOF SLOPES WITH ARCHITECTURAL PLANS.
4. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ROOF TOP UNITS AND ROOF DECK PENETRATIONS.
5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
6. REF 2/S-502 FOR CONT ANGLE SPLICE.

STEEL ROOF FRAMING PLAN REFERENCE NOTES:
A. REFER TO FOUNDATION PLAN FOR STEEL COLUMN SIZES REF TO S301 FOR BASE PLATE (BP) SCHEDULE].
B. REFER TO S-5XX SHEETS FOR DELEGATED OR TYP CONN DETAILS.

3VLI — INDICATES SPAN DIRECTION OF 4 1/2" NORMAL WEIGHT CONCRETE OVER 3" VLI X 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (7 1/2" TOTAL THICKNESS). REINFORCE SLAB WITH #4 AT 12" EW. PLACE REINFORCEMENT 1 1/2" DOWN FROM TOP OF SLAB. (3) SPAN CONDITION MIN

1.5B-A — INDICATES SPAN DIRECTION OF 1.5" X 20 GA TYPE B GALVANIZED STEEL ROOF DECK WITH ELASTIZELL COMPOSITE INSULATING ROOF DECK SYSTEM. REFER TO ROOF DECK DIAPHRAGM CONNECTION DIAGRAM. (3) SPAN CONDITION MIN

1.5B-B — INDICATES SPAN DIRECTION OF 1.5" X 20 GA TYPE B GALVANIZED STEEL ROOF DECK WITH STANDING SEAM ROOFING. REFER TO ROOF DECK DIAPHRAGM CONNECTION DIAGRAM. (3) SPAN CONDITION MIN

(A) 12"x14 GA STRAP AT LOCATIONS SHOWN ON PLAN. ATTACH TO DECK WITH (2) #10 SCREWS AT 24" OC MAX. 15'-0" MIN, CENTER AT DECK RE-ENTRANT CORNER

(B) L6X4X5/16 (LLH) ANGLE STRUT AT LOCATIONS SHOWN ON PLAN, REF 6/S-503. 15'-0" MIN, CENTER AT DECK RE-ENTRANT CORNER.

(C) PROVIDE CFMF WIDE FLANGE BEAM BRACING AND BLOCKING BETWEEN TRUSSES WHEN PARALLEL TO BEAM, REF 5/S-504

(D) MOMENT FRAME PROFILE FOLLOWS CANOPY STEEL FRAM ELEVATION

(E) TRUSS WEB MEMBER DESIGN TO ACCOMMODATE LARGE MECH CHASE, REF MEP AND ARCH

FRAMING SYMBOLS

STEEL BEAM

W14X22 (8) 80 K-FT
56K [X'-XX"] (25K) 56K

- BEAM SIZE
- TOTAL QUANTITY OF HSA AT EACH BEAM SEGMENT, REF 6/S-400
- MOMENT R FOR CONN DESIGN (LRFD)
- VERT R FOR CONN DESIGN (LRFD) IF NONE SHOWN, DESIGN WITH MINIMUM SCHEDULED REACTION, REF 1/S-502
- AXIAL FORCE FOR CONN DESIGN (LRFD)
- T/STL EL
- INDICATES BOTTOM FLANGE BRACE ANGLE, REF 2/S-503. EQUALLY SPACED ALONG SPAN IF NOT DIMENSIONED

STEEL JOIST

16K (240/120) SP
(20K)

- JOIST DEPTH
- JOIST SERIES
- UNIFORM LOAD (TL/RLL) IN PLF, UNFACTORED
- INDICATES SPECIAL LOADING DUE TO NON-UNIFORM LOADS
- MAX AXIAL FORCE TO JOIST TOP CHORD AND SEAT (LRFD)

WALL LEGEND

CMU WALL

1 ROOF FRAMING PLAN
1/8" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
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COA# 001268 EXP: 12/31/27

STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2008024305
PROFESSIONAL ENGINEER
09.29.2026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
DRAWN BY: RPT
CHECKED BY: DLS
DESIGNED BY: RLH

SHEET TITLE:
ROOF FRAMING PLAN

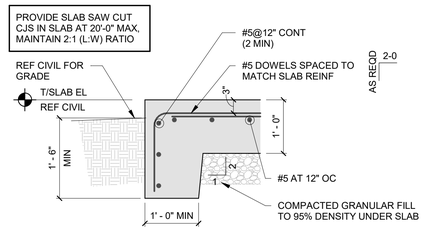
SHEET NUMBER:
S-102

SEPTEMBER 30, 2026

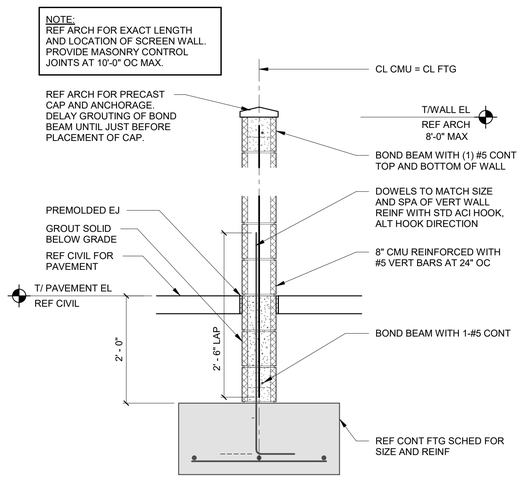
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9/29/2026 3:45:45 PM

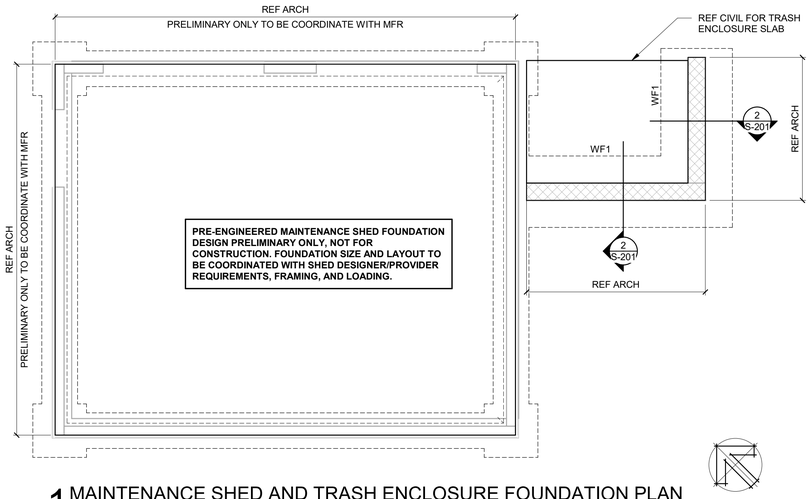
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3 MECH SLAB DETAIL
3/4" = 1'-0"



2 CMU ENCLOSURE SCREEN WALL FOOTING
3/4" = 1'-0"



1 MAINTENANCE SHED AND TRASH ENCLOSURE FOUNDATION PLAN
1/4" = 1'-0"

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
DRAWN BY: RPT
CHECKED BY: DLS
DESIGNED BY: RLH

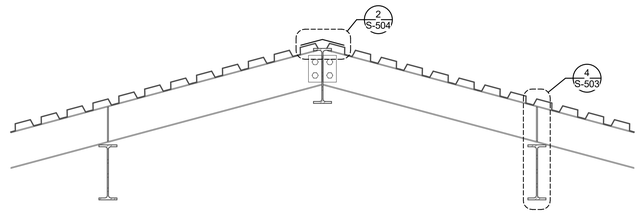
SHEET TITLE:
SITE PLANS AND DETAILS

SHEET NUMBER:
S-201

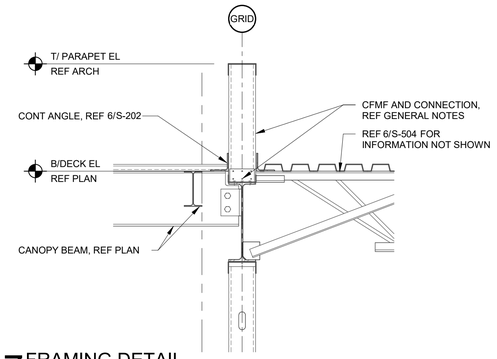
SEPTEMBER 30, 2026

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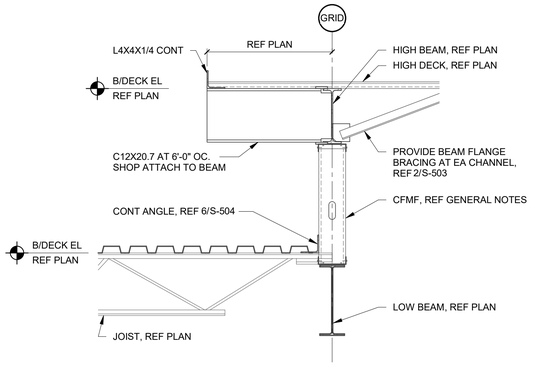
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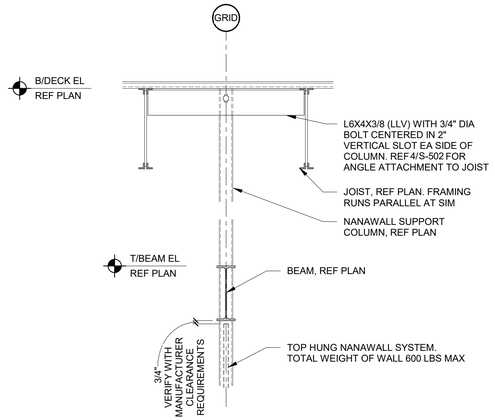
8 CANOPY SECTION
3/4" = 1'-0"



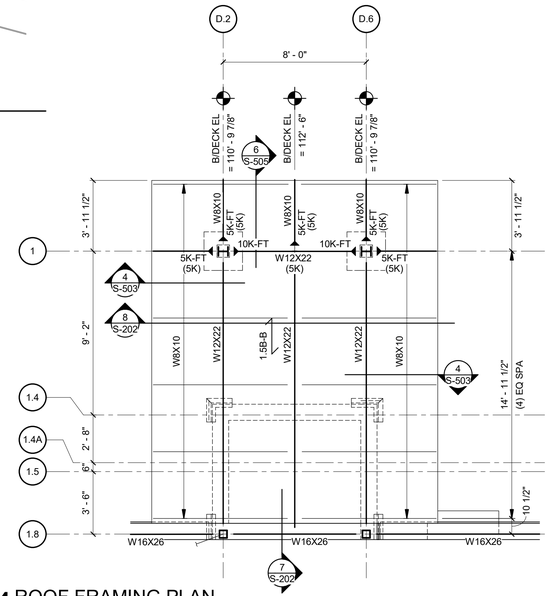
7 FRAMING DETAIL
3/4" = 1'-0"



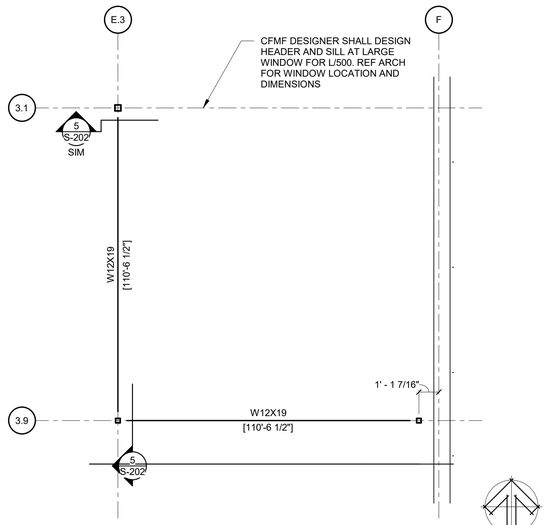
6 FRAMING DETAIL
3/4" = 1'-0"



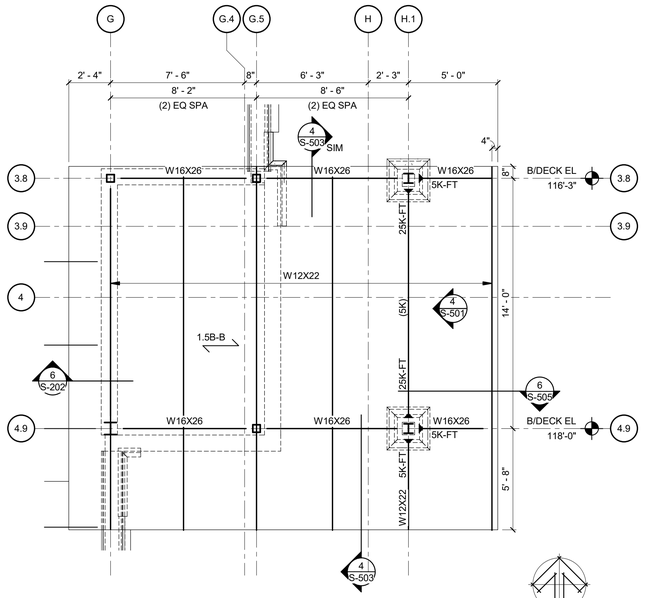
5 NANAWALL BRACING DETAIL
3/4" = 1'-0"



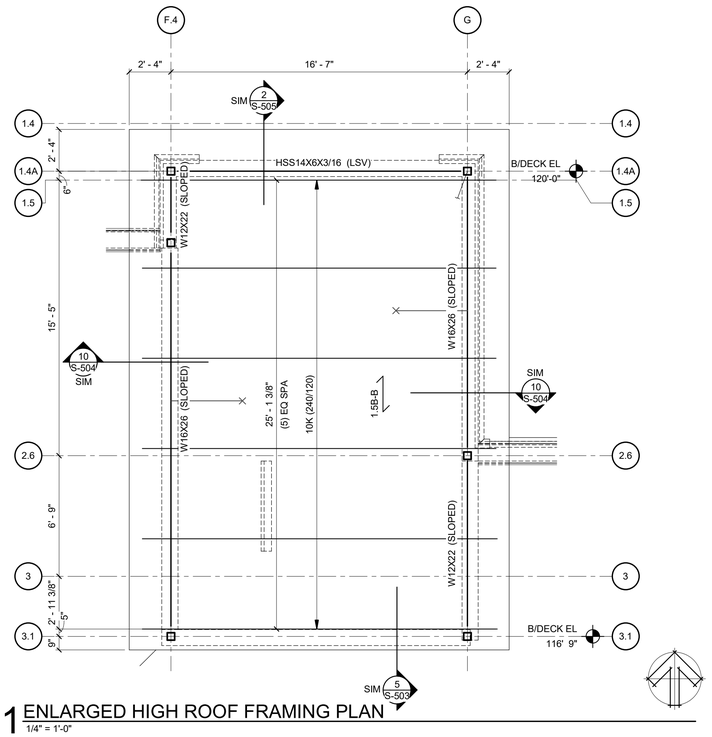
4 ROOF FRAMING PLAN
1/4" = 1'-0"



3 ENLARGED LOW NANAWALL FRAMING PLAN
1/4" = 1'-0"



2 ENLARGED HIGH ROOF FRAMING PLAN
1/4" = 1'-0"



1 ENLARGED HIGH ROOF FRAMING PLAN
1/4" = 1'-0"

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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

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ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
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CHECKED BY: DLS
DESIGNED BY: RLH

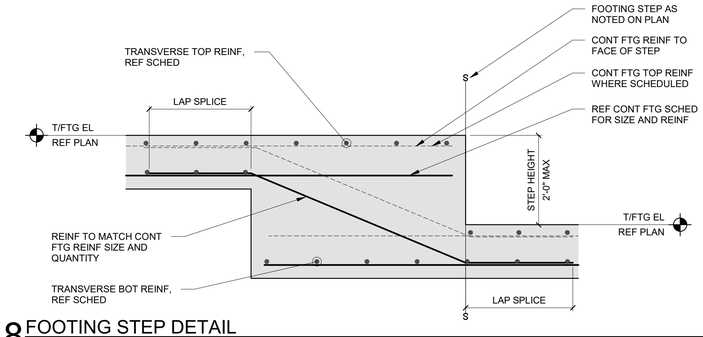
SHEET TITLE:
PARTIAL PLANS AND DETAILS

SHEET NUMBER:
S-202

SEPTEMBER 30, 2026

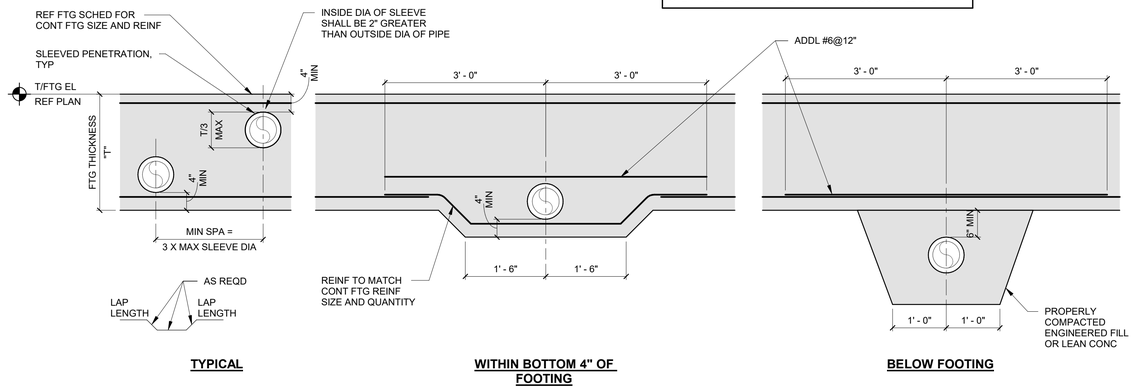
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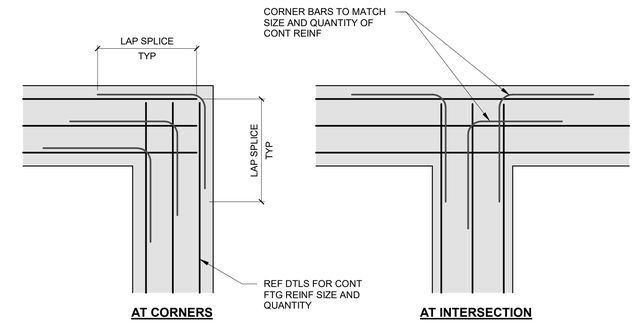


8 FOOTING STEP DETAIL
3/4" = 1'-0"

SLEEVE PENETRATIONS WITHIN THE TOP 4" OF FTG: LOWER SLEEVE TO PROVIDE THE MIN CLEAR COVER AS SHOWN OR RAISE ABOVE THE TOP OF FTG TO PENETRATE THROUGH THE STEM WALL.REF TYP PENETRATION THROUGH WALL DTL



7 PENETRATION THROUGH FOOTING
3/4" = 1'-0"



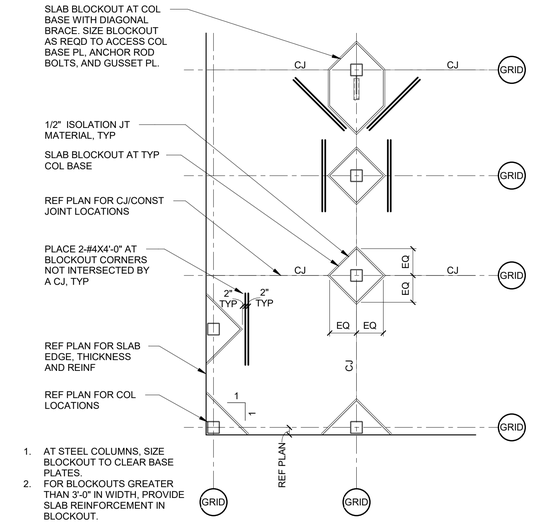
6 CORNER BAR DETAIL
3/4" = 1'-0"

CONCRETE REINFORCING LAP SPLICE LENGTH SCHEDULE

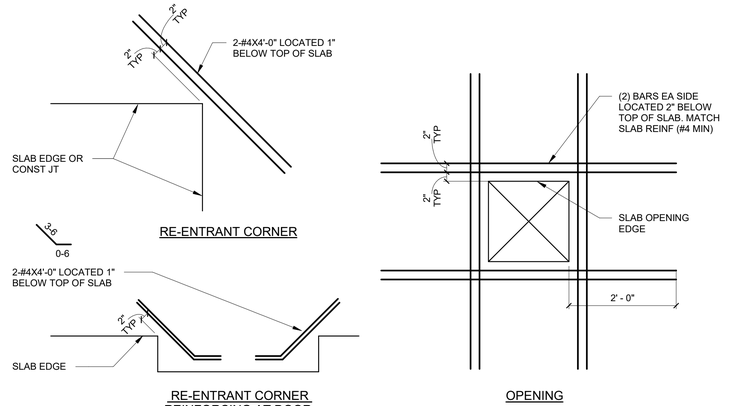
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f'c)					
	3000 PSI		4000 PSI		4500 PSI	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"
#4	38"	29"	33"	25"	31"	24"
#5	47"	36"	41"	31"	38"	30"
#6	56"	43"	49"	37"	46"	36"
#7	81"	63"	71"	54"	67"	51"
#8	93"	72"	81"	62"	76"	59"
#9	105"	81"	91"	70"	86"	66"
#10	118"	91"	102"	79"	96"	74"
#11	131"	101"	113"	87"	107"	82"

NOTES:
1. TABULATED VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 60,000 PSI REINFORCING STEEL BARS WITHOUT EPOXY COATING AND NORMALWEIGHT AGGREGATE CONCRETE.
2. TABULATED VALUES ARE BASED ON CONCRETE COVER AT LEAST 1.0DB AND CENTER-TO-CENTER BAR SPACING AT LEAST 2.0DB FOR BEAMS/COLUMNS AND 3.0DB FOR ALL OTHERS.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.33.
5. DB = DIAMETER OF BAR

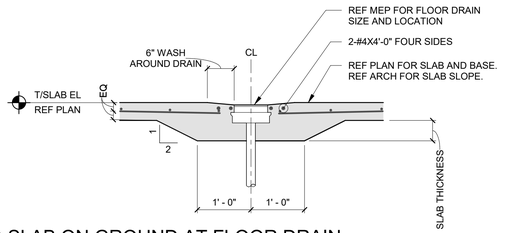
5 CONCRETE REINFORCING LAP SCHEDULE
3/4" = 1'-0"



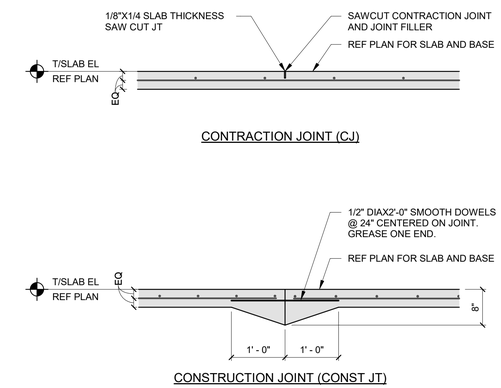
4 SLAB ON GROUND BLOCKOUT
1/4" = 1'-0"



3 SLAB ON GROUND REINFORCEMENT
3/4" = 1'-0"



2 SLAB ON GROUND AT FLOOR DRAIN
3/4" = 1'-0"



1 SLAB ON GROUND AT JOINTS
3/4" = 1'-0"

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Revision

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ISSUE DATE: SEPTEMBER 30, 2026

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DESIGNED BY: RLH

SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S-300

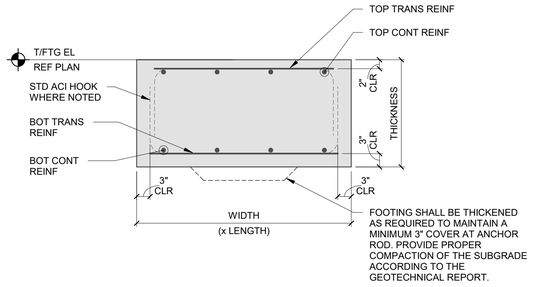
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SEPTEMBER 30, 2026

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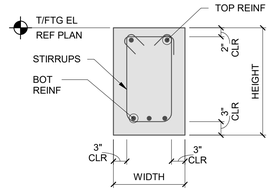
FOOTING SCHEDULE							
MARK	SIZE			BOTTOM REINFORCING		TOP REINFORCING	
	LENGTH	WIDTH	THICKNESS	LONGITUDINAL	TRANSVERSE	LONGITUDINAL	TRANSVERSE
F2.0	2' - 0"	2' - 0"	1' - 0"	3-#6	3-#6	--	--
F3.0	3' - 0"	3' - 0"	2' - 0"	3-#6	3-#6	--	--
F3.0B	7' - 0"	3' - 0"	2' - 0"	6-#6	3-#6	--	--
F5.0	5' - 0"	5' - 0"	2' - 0"	5-#8	5-#8	5-#5	5-#5
F6.0	6' - 0"	6' - 0"	2' - 0"	6-#8	6-#8	6-#5	6-#5
F8.0	8' - 0"	8' - 0"	2' - 0"	8-#7	8-#7	8-#5	8-#5
F9.0	9' - 0"	9' - 0"	3' - 0"	9-#8	9-#8	9-#5	9-#5

NOTES:
1. REFER TO PLAN FOR FOOTING ORIENTATION.
2. PROVIDE STANDARD ACI HOOK EACH END AT BOTTOM REINFORCING.
3. FOOTING CENTERED ON COLUMN UNLESS NOTED OTHERWISE ON PLAN.



5 TYPICAL FOOTING SCHEDULE AND DIAGRAM
3/4" = 1'-0"

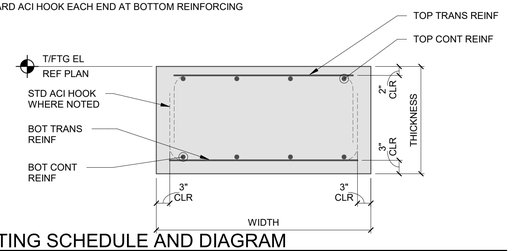
CONTINUOUS FOOTING SCHEDULE									
MARK	SIZE		BOTTOM REINFORCING		TOP REINFORCING		STIRRUPS		NOTES
	WIDTH	THICKNESS	CONTINUOUS	TRANSVERSE	CONTINUOUS	TRANSVERSE	SIZE	SPACING	
CF1	2' - 0"	2' - 0"	3	#6	--	--	#3	48"	



4 TYPICAL CONTINUOUS FOOTING SCHEDULE AND DIAGRAM
3/4" = 1'-0"

WALL FOOTING SCHEDULE							
MARK	SIZE		BOTTOM REINFORCING		TOP REINFORCING		NOTES
	WIDTH	THICKNESS	CONTINUOUS	TRANSVERSE	CONTINUOUS	TRANSVERSE	
WF1	4' - 0"	2' - 0"	4-#7	#7@12"	--	--	1

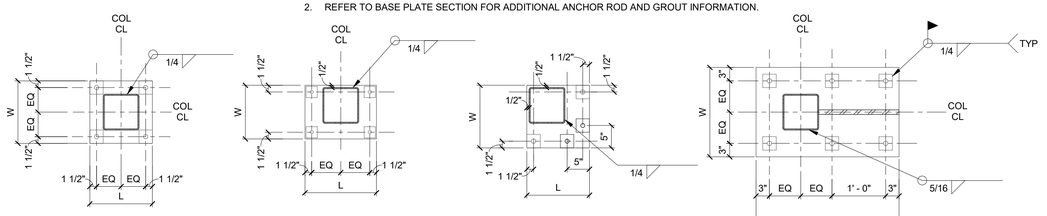
NOTES:
1. WALL FOOTING SHALL BE CENTERED ON THE WALL.
2. PROVIDE STANDARD ACI HOOK EACH END AT BOTTOM REINFORCING



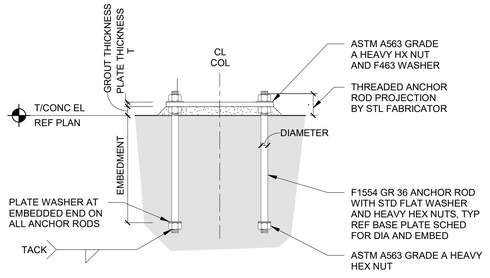
3 WALL FOOTING SCHEDULE AND DIAGRAM
3/4" = 1'-0"

COLUMN BASE PLATE SCHEDULE								
MARK	BASE PLATE				ANCHOR RODS			NOTES
	TYPE	T	W	L	NUMBER	DIA	EMBED	
BP-1	A	3/4"	11"	0'-11"	4	3/4"	1' - 0"	1, 2
BP-2	F	3/4"	14"	1'-2"	4	3/4"	1' - 0"	1, 2
BP-3	D	3/4"	11"	2'-0"	6	3/4"	1' - 0"	1, 2
BP-4	B	3/4"	8 1/2"	0'-11"	4	3/4"	1' - 0"	1, 2
BP-5	C	3/4"	8 1/2"	0'-8 1/2"	4	3/4"	1' - 0"	1, 2
BP-6	J	3/4"	16"	1'-10"	10	1"	2' - 0"	1, 2
BP-7	J	3/4"	16"	1'-10"	10	3/4"	1' - 0"	1, 2
BP-8	G	3/4"	13"	1'-4"	8	3/4"	1' - 0"	1, 2
BP-9	H	3/4"	11"	2'-6"	8	3/4"	1' - 0"	1, 2
BP-10	A	1/2"	9"	0'-9"	4	3/4"	9"	1, 2
BP-11	A	1/2"	10"	0'-10"	4	3/4"	9"	1, 2
BP-12	G	3/4"	16"	1'-4"	8	3/4"	1' - 0"	1, 2

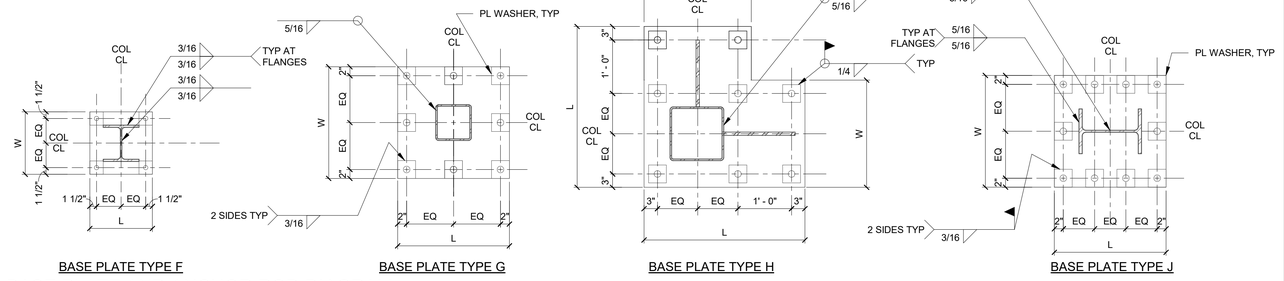
NOTES:
1. PROVIDE 1/4" PLATE WASHER.
2. REFER TO BASE PLATE SECTION FOR ADDITIONAL ANCHOR ROD AND GROUT INFORMATION.



GROUT SCHEDULE	
ANCHOR ROD DIA	GROUT THICKNESS
LESS THAN 1"	1 1/2"
1" OR GREATER	2 1/2"



2 BASE PLATE SECTION
3/4" = 1'-0"



1 BASE PLATE AND ANCHOR ROD DIAGRAM
3/4" = 1'-0"

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STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2009024305
PROFESSIONAL ENGINEER

09.29.2026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
DRAWN BY: RPT
CHECKED BY: DLS
DESIGNED BY: RLH

SHEET TITLE:
FOUNDATION DETAILS

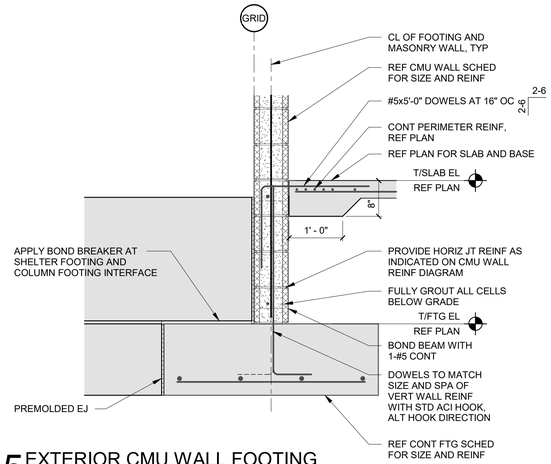
SHEET NUMBER:
S-301

85 OF 133

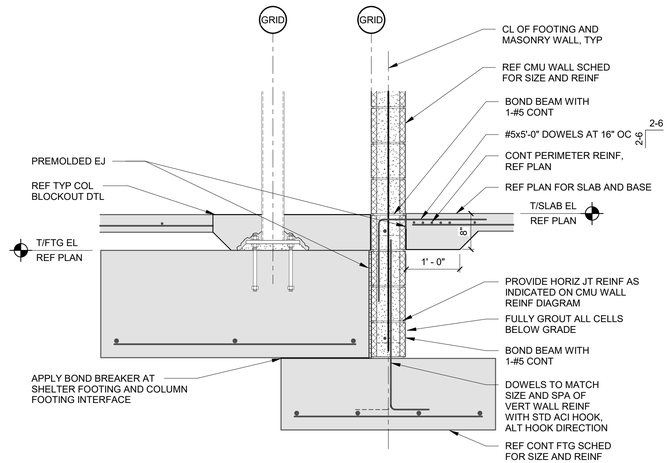
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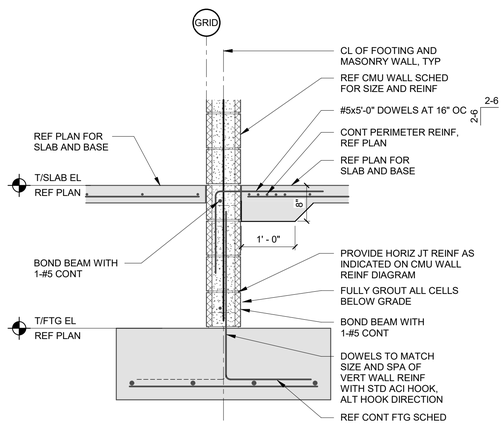
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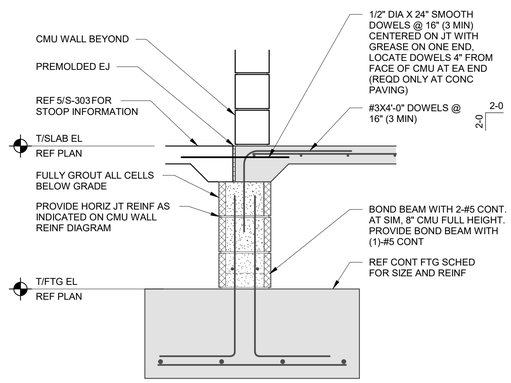
5 EXTERIOR CMU WALL FOOTING
3/4" = 1'-0"



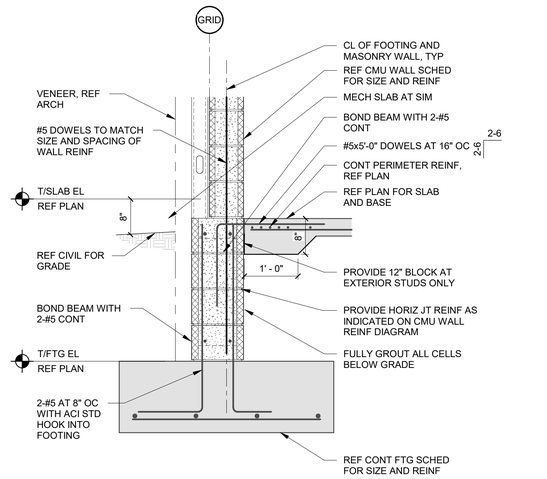
4 INTERIOR CMU WALL FOOTING
3/4" = 1'-0"



3 INTERIOR CMU WALL FOOTING
3/4" = 1'-0"



2 FOOTING AT CMU WALL DOOR
3/4" = 1'-0"



1 EXTERIOR CMU WALL FOOTING
3/4" = 1'-0"

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CMU FOUNDATION DETAILS

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S-302

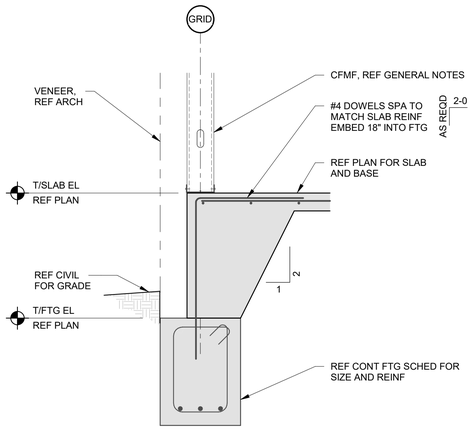
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SEPTEMBER 30, 2026

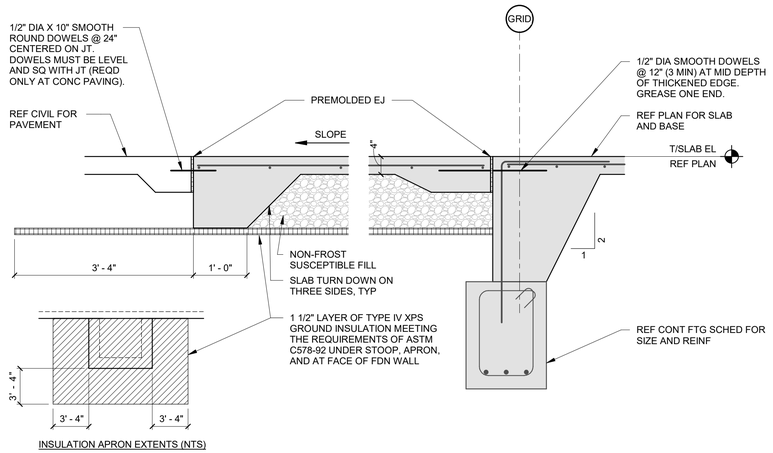
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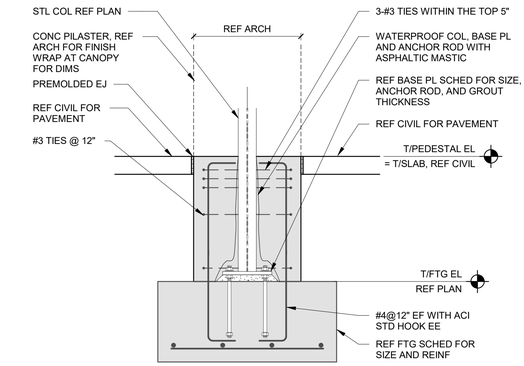


6 EXTERIOR FOOTING
3/4" = 1'-0"

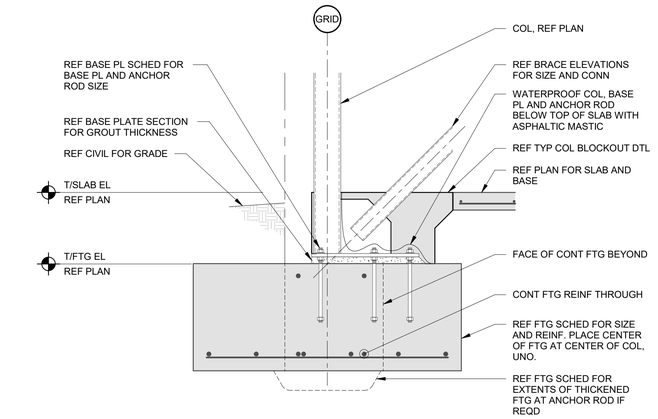


INSULATION APRON EXTENTS (NTS)

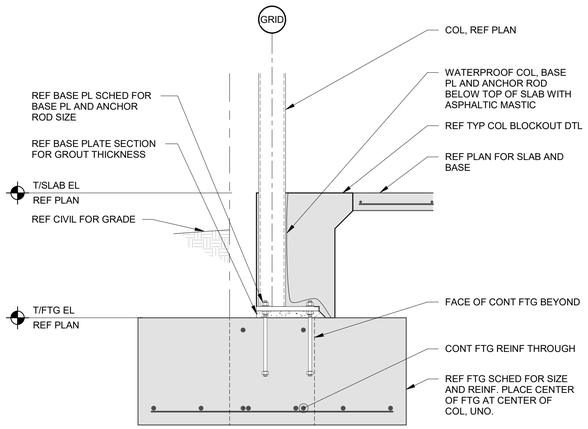
5 SLAB AT OPENING WITH STOOP
3/4" = 1'-0"



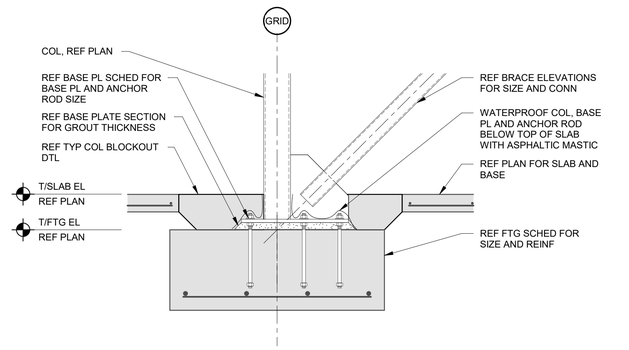
7 STEEL CANOPY COLUMN FOOTING
3/4" = 1'-0"



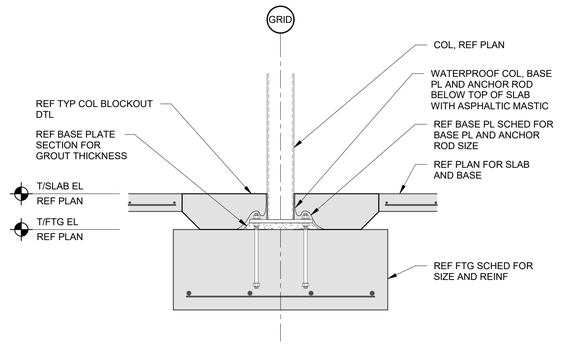
4 STEEL BRACE AT FOOTING
3/4" = 1'-0"



3 STEEL COLUMN AT EXTERIOR FOOTING
3/4" = 1'-0"



2 STEEL BRACE AT FOOTING
3/4" = 1'-0"



1 STEEL COLUMN AT FOOTING
3/4" = 1'-0"

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DESIGNED BY: RLH

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FOUNDATION DETAILS

SHEET NUMBER:
S-303

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SEPTEMBER 30, 2026

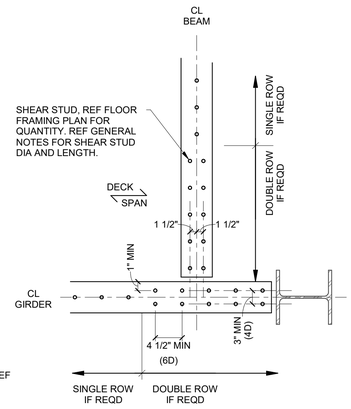
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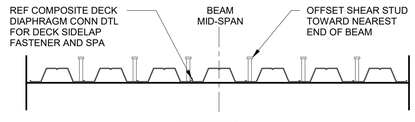
COMPOSITE DECK DIAPHRAGM CONNECTION SCHEDULE			
LOCATION	(•) DECK TO STEEL MEMBER CONNECTOR PATTERNED AND TYPE	(*) SIDELAP CONNECTOR NUMBER AND TYPE	(•) CONNECTIONS AT PARALLEL SUPPORT
STORM SHELTER	36/4 - 5/8" DIA PUDDLE WELDS	BUTTON PUNCH AT 12" OC, UNO	5/8" DIA PUDDLE WELDS AT 12" OC

NOTES:
1. PROVIDE WELDING WASHERS FOR DECK THICKNESSES LESS THAN 22 GAUGE
2. FLOOR DECK SHALL BE GALVANIZED COMPOSITE STEEL FLOOR DECK. DEPTH SHALL BE AS SHOWN IN THE CONTRACT DOCUMENTS.
3. CONNECTION SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECS AND AS SHOWN IN SCHEDULE AND DETAIL.
4. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
5. COORDINATE REQUIREMENTS FOR VENTED DECK WITH CONCRETE INSULATING FILL.
6. HILTI PINS AND SIDELAP FASTENERS MAY BE USED AT THE CONTRACTOR'S SUBSTITUTION REQUEST. SUBMIT DECK CONNECTION CALCULATIONS THAT MEET OR EXCEED THE CAPACITY OF WHAT IS INDICATED IN THE SCHEDULE SIGNED AND SEALED BY AN ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. PERSONNEL INSTALLING HILTI FASTENERS SHALL RECEIVE ON SITE TRAINING FOR PROPER INSTALLATION BY A HILTI FIELD REPRESENTATIVE. CONTACT HILTI FOR ON SITE TRAINING.



D = DIAMETER OF HEADED STUD ANCHOR REF GENERAL NOTES

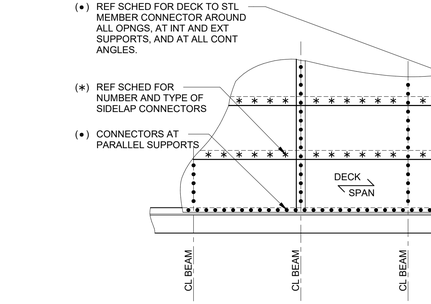
TYPICAL STUD LAYOUT



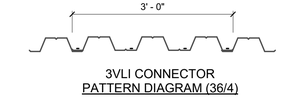
ELEVATION

NOTES:
1. LAYOUT STUDS ALONG BEAM LENGTH PRIOR TO STUD ATTACHMENT.
2. PLACE AN EQUAL NUMBER OF SHEAR STUDS ON EACH SIDE OF THE MID-SPAN OF THE BEAM.
3. FOR BEAM WITH DECK SPAN PERPENDICULAR TO THE BEAM:
   A. BEGIN BY PLACING STUDS AT 24" ON CENTER
   B. PLACE REMAINING STUDS, IN EQUAL QUANTITIES FROM EACH END OF THE BEAM, AT VACANT DECK FLUTES, SUCH THAT THE STUD SPA IS 12" ON CENTER
   C. WHERE ADDITIONAL STUDS ARE REQUIRED, LAYOUT REMAINING STUDS, IN EQUAL QUANTITIES FROM EACH END OF THE BEAM AT 12" ON CENTER IN A DOUBLE ROW OF STUDS.
4. FOR BEAM WITH DECK SPAN PARALLEL TO THE BEAM:
   A. SPACE STUDS IN A SINGLE ROW BETWEEN SUPPORTS AT A UNIFORM SPACING. SPACING BETWEEN STUDS SHALL NOT BE LESS THAN 4 1/2"(6D).
   B. WHERE ADDITIONAL STUDS ARE REQUIRED, LAYOUT REMAINING STUDS, IN EQUAL QUANTITIES FROM EACH END OF THE BEAM, IN A DOUBLE ROW OF STUDS.

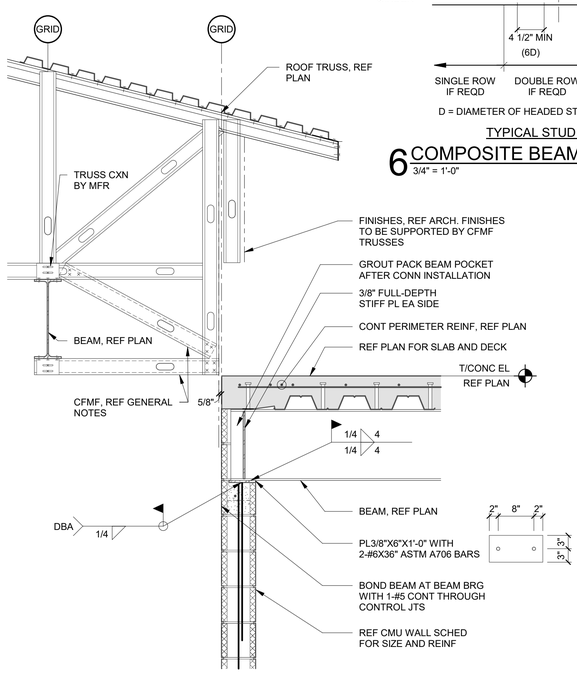
6 COMPOSITE BEAM SHEAR STUD LAYOUT - UNIFORM
3/4" = 1'-0"



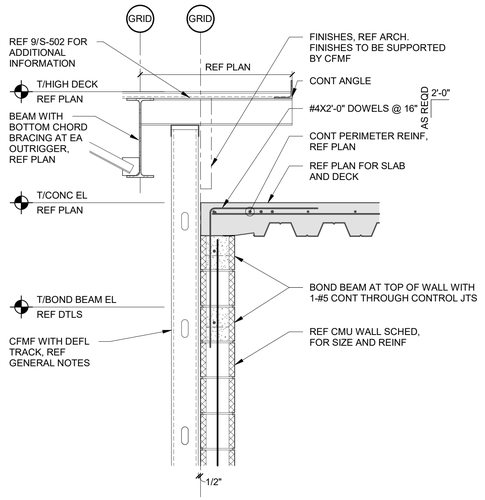
5 COMPOSITE DECK DIAPHRAGM CONNECTION DIAGRAM
3/4" = 1'-0"



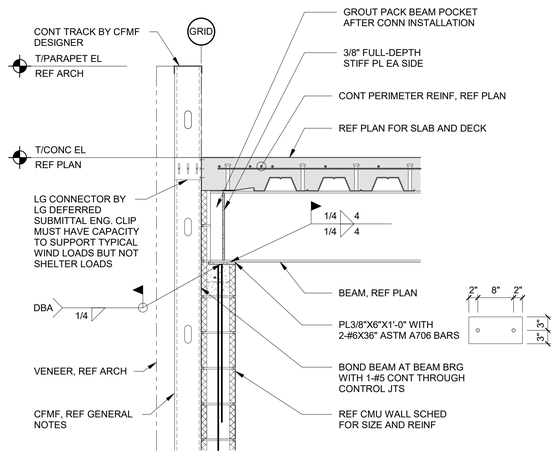
3VLI CONNECTOR PATTERN DIAGRAM (36/4)



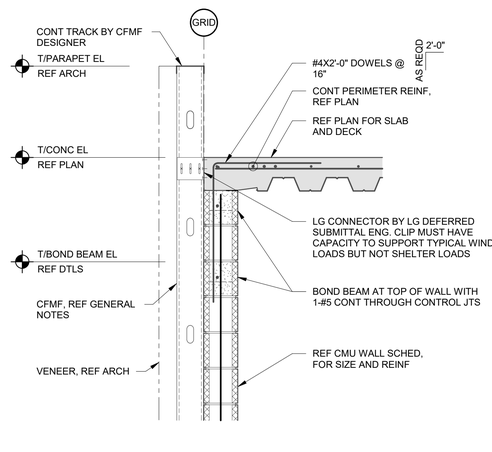
4 FRAMING DETAIL
3/4" = 1'-0"



3 FRAMING DETAIL
3/4" = 1'-0"



2 FRAMING DETAIL
3/4" = 1'-0"



1 FRAMING DETAIL
3/4" = 1'-0"

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SHEET TITLE:
STORM SHELTER - CMU WALLS

SHEET NUMBER:
S-400

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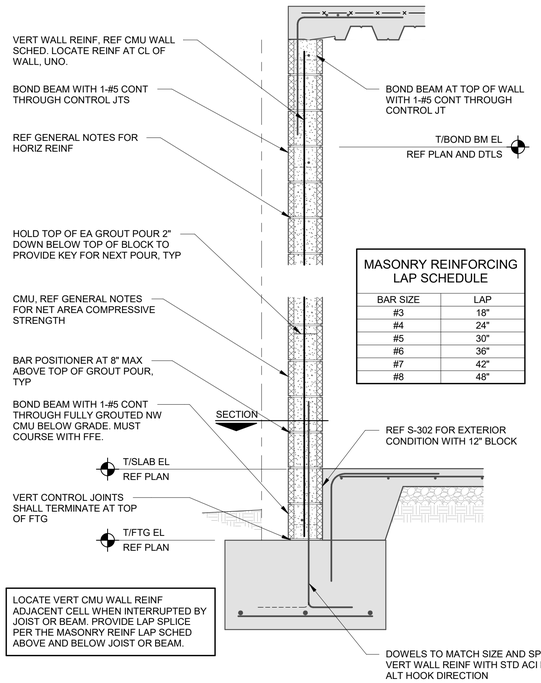
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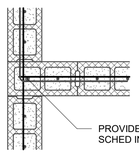
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CMU WALL SCHEDULE		
MARK	NOMINAL THICKNESS	VERTICAL REINFORCING
MW1	8"	#5 AT 8"



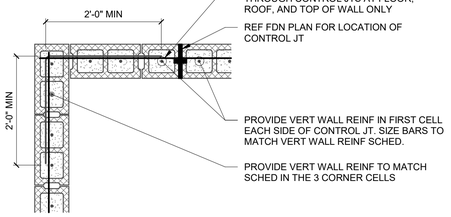
MASONRY REINFORCING LAP SCHEDULE	
BAR SIZE	LAP
#3	18"
#4	24"
#5	30"
#6	36"
#7	42"
#8	48"

LOCATE VERT CMU WALL REINF ADJACENT CELL WHEN INTERRUPTED BY JOIST OR BEAM. PROVIDE LAP SPLICE PER THE MASONRY REINF LAP SCHED ABOVE AND BELOW JOIST OR BEAM.



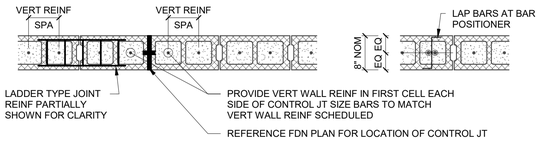
NOTES:
1. PROVIDE 2-#5X4'-0" CORNER BARS AT EACH BOND BEAM. LAP REINFORCING AS SHOWN.
2. EXTEND HORIZONTAL JOINT REINFORCING TO END OF WALL SO THAT IT LAPS AT THE CORNER.

AT INTERSECTING WALL



NOTES:
1. PROVIDE #5X4'-0" CORNER BARS AT EACH BOND BEAM. LAP REINFORCING AS SHOWN.
2. EXTEND HORIZONTAL JOINT REINFORCING TO END OF WALL IN BOTH DIRECTIONS SO THAT JOINT REINFORCING LAPS AT THE CORNER.

CORNER

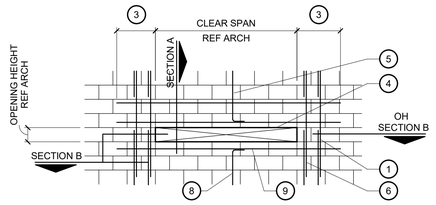


NOTES:
1. DO NOT PLACE CONTROL JOINTS IN LINE WITH BEAM OR JOIST BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
2. DO NOT LOCATE CONTROL JOINT WITHIN 2'-0" OF OPENINGS, UNLESS NOTED OTHERWISE.

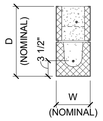
SECTION

2 8" CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"

CMU LINTEL AND JAMB SCHEDULE						
MARK	CMU WIDTH (W)	CLEAR SPAN	LINTEL HEIGHT (D)	LINTEL REINF	JAMB WIDTH	JAMB REINF
MW-1	8"	3'-4"	16"	(2) - #5	32"	(2) - #6

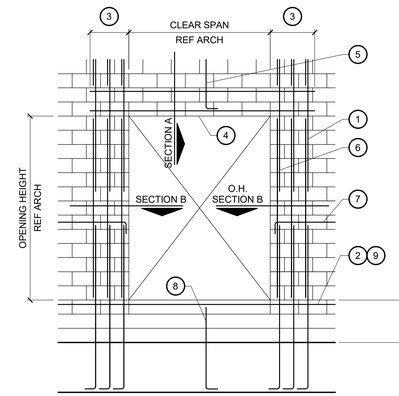


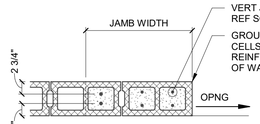
SCUPPER AND WALL OPENINGS



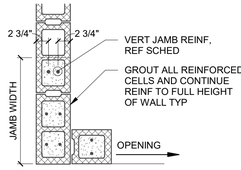
SECTION A

LINTEL





SECTION B



SECTION B (AT CORNERS)

JAMB

NOTES:
1. LAP SPLICES IN VERTICAL REINFORCING, REFER TO CMU WALL REINFORCING DIAGRAM.
2. BOND BEAM, REFER TO CMU WALL REINFORCING DIAGRAM.
3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" OR 40 db (WHICHEVER IS GREATER) BEYOND FACE OF OPENING EACH SIDE (EXTEND BARS THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQUIRED).
4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENING, UNLESS NOTED OTHERWISE.
5. CONTINUE VERTICAL WALL REINFORCING OVER OPENING. ANCHOR VERTICAL REINFORCING INTO LINTEL BEAM WITH STANDARD ACI 90° HOOK.
6. ALL VERTICAL BARS AT OPENING JAMBS TO BE FULL HEIGHT.
7. WHERE HORIZONTAL REINFORCING IS TERMINATED BY OPENING OR CONTROL JOINT, PROVIDE STANDARD ACI HOOK WITH VERTICAL WALL REINFORCING IN THE END CELL.
8. CONTINUE VERTICAL WALL REINFORCING BELOW OPENING. ANCHOR WITH STANDARD ACI 90° HOOK INTO CONTINUOUS FOOTING. AT OPENING ABOVE FINISH FLOOR ELEVATION, ANCHOR VERTICAL REINFORCING INTO BOND BEAM BELOW OPENING WITH STANDARD ACI 90° HOOK.
9. PROVIDE 1-#5 AT BOTTOM OF ALL OPENINGS ABOVE FINISHED FLOOR. EXTEND A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT REINFORCING AND 1'-4" FOR HOOKED REINFORCING WITH STANDARD ACI HOOK (EXTEND BAR THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQUIRED).

1 8" CMU WALL OPENING DIAGRAM AND SCHEDULE
3/4" = 1'-0"

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STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2009024305
PROFESSIONAL ENGINEER
09.29.2026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
DRAWN BY: RPT
CHECKED BY: DLS
DESIGNED BY: RLH

SHEET TITLE:
TYPICAL CMU DETAILS

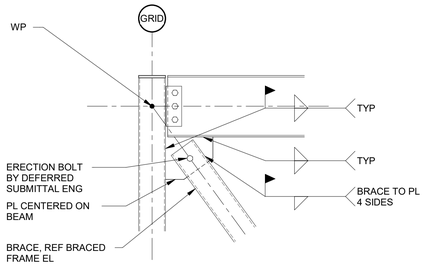
SHEET NUMBER:
S-401

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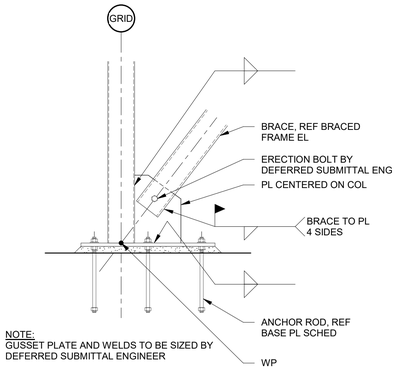
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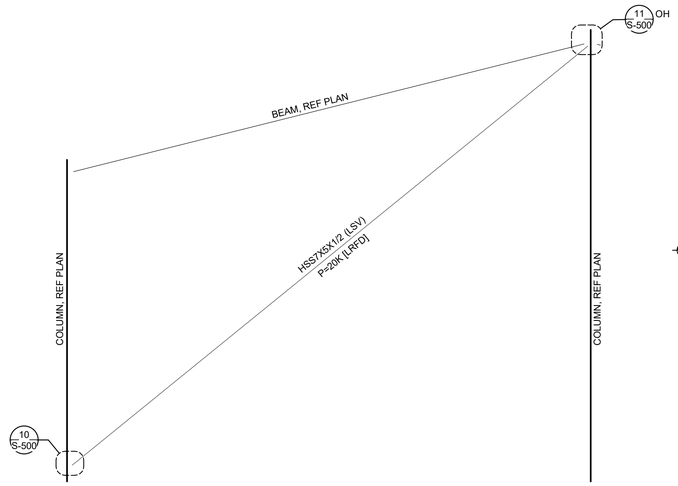
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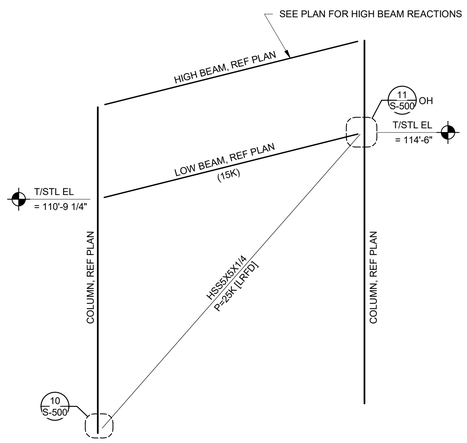
11 BRACE DETAIL - BEAM TO COL INTERSECTION
3/4" = 1'-0"



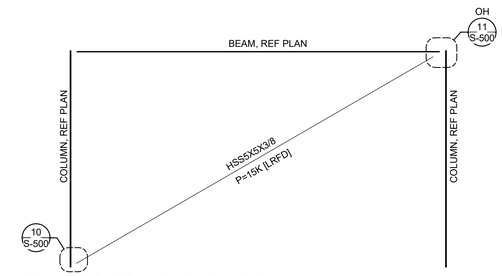
10 BRACE DETAIL - BASE PLATE
3/4" = 1'-0"



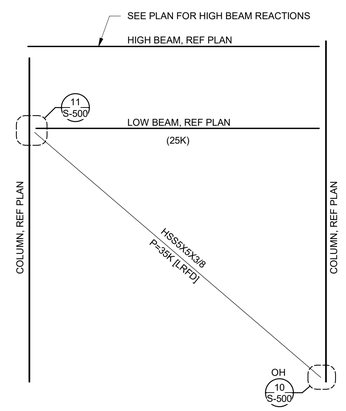
9 FRAME ELEVATION
1/4" = 1'-0"



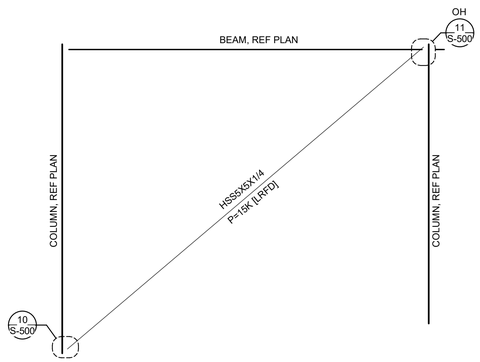
8 BRACED FRAME ELEVATION
1/4" = 1'-0"



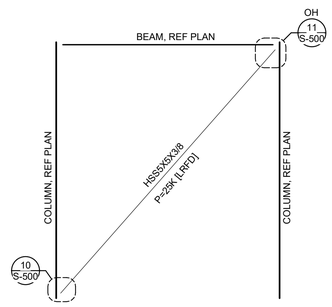
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1/4" = 1'-0"



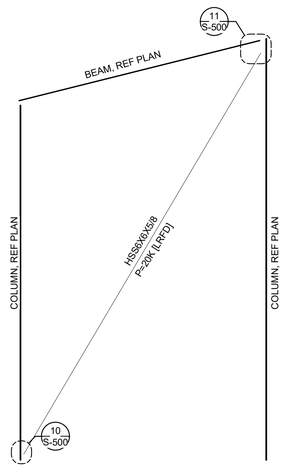
6 BRACED FRAME ELEVATION
1/4" = 1'-0"



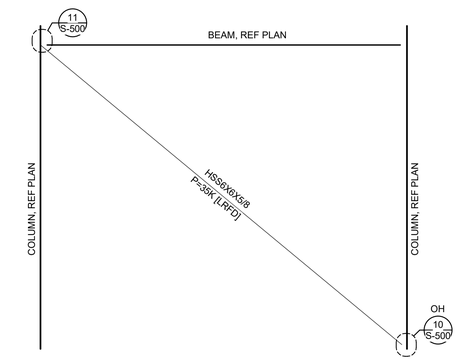
5 BRACED FRAME ELEVATION
1/4" = 1'-0"



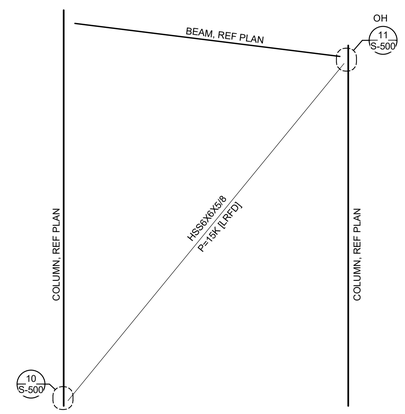
4 BRACED FRAME ELEVATION
1/4" = 1'-0"



3 BRACED FRAME ELEVATION
1/4" = 1'-0"



2 BRACED FRAME ELEVATION
1/4" = 1'-0"



1 BRACED FRAME ELEVATION
1/4" = 1'-0"

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MIKE KEHOE, GOVERNOR

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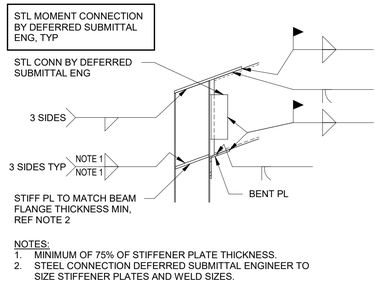
SHEET TITLE:
BRACED FRAME ELEVATIONS AND DETAILS

SHEET NUMBER:
S-500

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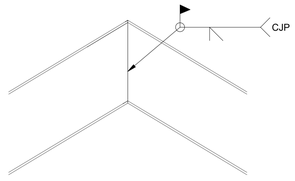
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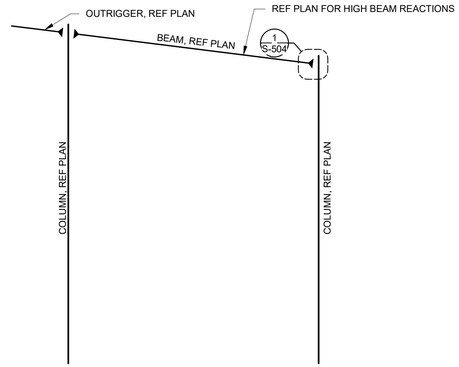


NOTES:
1. MINIMUM OF 75% OF STIFFENER PLATE THICKNESS.
2. STEEL CONNECTION DEFERRED SUBMITTAL ENGINEER TO SIZE STIFFENER PLATES AND WELD SIZES.

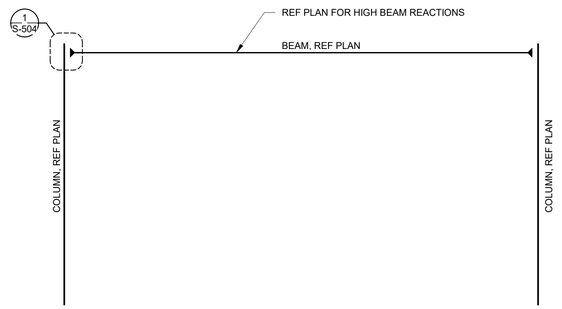
6 MOMENT CONNECTION
3/4" = 1'-0"



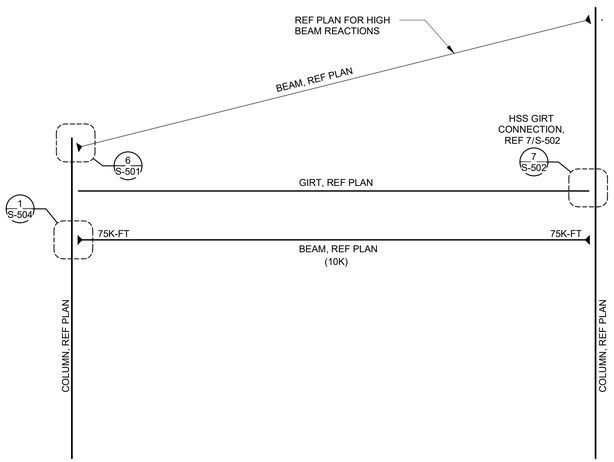
5 WELDED CONNECTION
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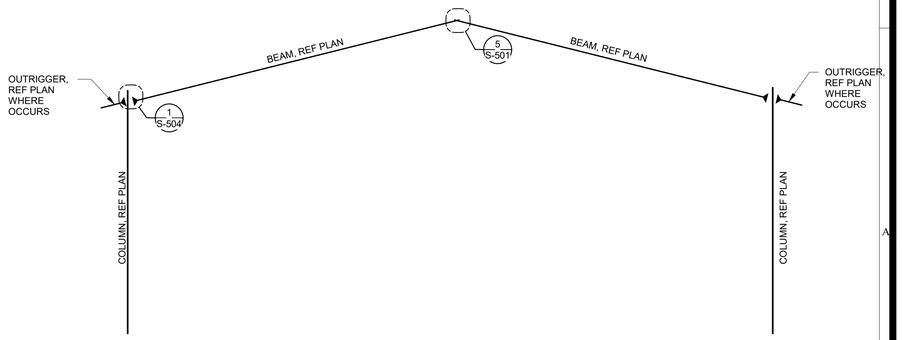
4 MOMENT FRAME ELEVATION
1/4" = 1'-0"



3 MOMENT FRAME ELEVATION
1/4" = 1'-0"



2 MOMENT FRAME ELEVATION
1/4" = 1'-0"



1 MOMENT FRAME ELEVATION
1/4" = 1'-0"

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CHECKED BY: DLS
DESIGNED BY: RLH

SHEET TITLE:
MOMENT FRAME ELEVATIONS AND DETAILS

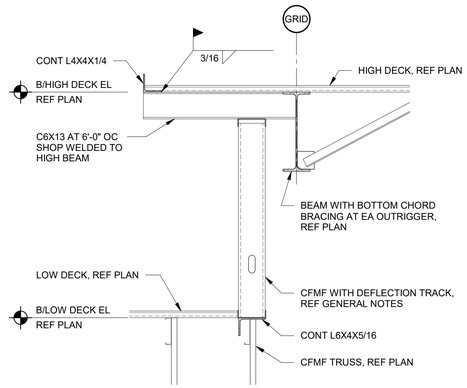
SHEET NUMBER:
S-501

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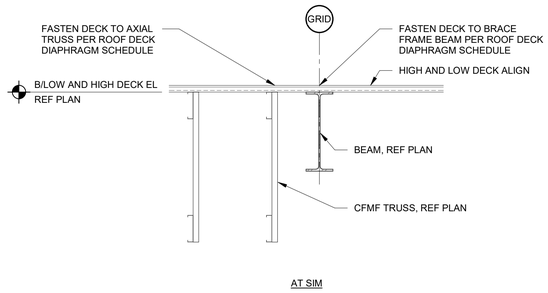
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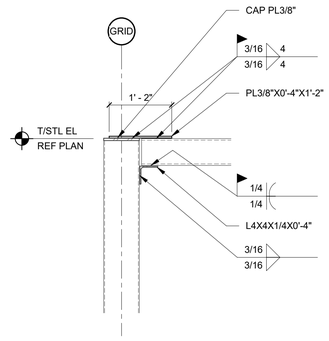
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9 FRAMING DETAIL
3/4" = 1'-0"

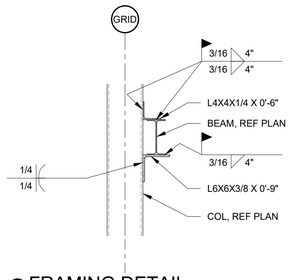


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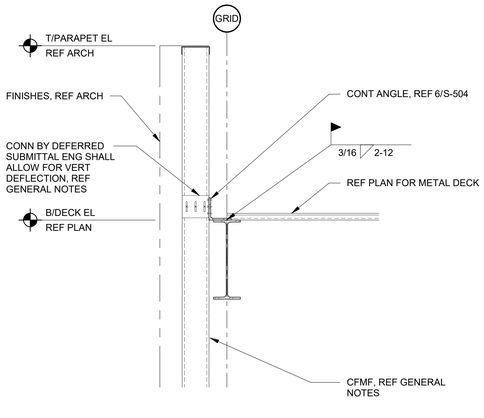


8 HSS BEAM TO HSS COLUMN TOP
3/4" = 1'-0"

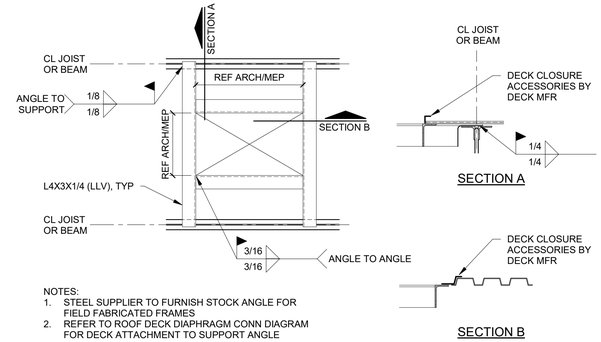
7 HSS BEAM TO HSS COLUMN MID
3/4" = 1'-0"



6 FRAMING DETAIL
3/4" = 1'-0"



5 JOIST TO EXTERIOR STEEL BEAM - BYPASS FRAMING
3/4" = 1'-0"



SECTION A

SECTION B

NOTES:
1. STEEL SUPPLIER TO FURNISH STOCK ANGLE FOR FIELD FABRICATED FRAMES
2. REFER TO ROOF DECK DIAPHRAGM CONN DIAGRAM FOR DECK ATTACHMENT TO SUPPORT ANGLE

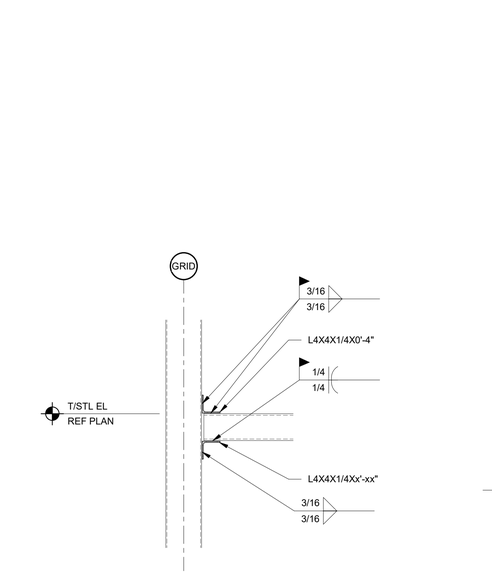
4 OPENING IN ROOF DECK LARGER THAN 12"x12"
NTS

THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS. REFER TO PLANS, ELEVATIONS, AND SCHEDULE FOR LRFD FACTORED LOADS, AND REFER TO STEEL BEAM MINIMUM CONNECTION SCHEDULE FOR MINIMUM CONNECTION REQUIRED.

STEEL BEAM MINIMUM CONNECTION SCHEDULE

BEAM	MIN BOLT DIA	MIN NUMBER OF BOLTS	MIN LRFD FACTRORED END REACTIONS (KIPS)	NOTES
W8	3/4"	2	24	1,2,3,4
W10	3/4"	2	24	1,2,3,4
W12	3/4"	3	38	1,2,3,4
W14	3/4"	3	38	1,2,3,4
W16	3/4"	4	52	1,3,4
W18	3/4"	4	52	1,3,4
W21	3/4"	5	64	1,3,4
W24	3/4"	6	76	1,3,4
W27	3/4"	7	88	1,3,4
W30	3/4"	8	101	1,3,4
W33	3/4"	8	101	1,3,4
W36	3/4"	9	113	1,3,4
W40	3/4"	9	113	1,3,4

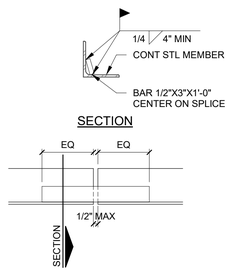
NOTES.
1. UNLESS INDICATED ON FRAMING PLAN AND CORRESPONDING DETAILS OR NOTES BELOW, SCHEDULE INDICATES THE MINIMUM NUMBER OF BOLTS ALLOWED FOR BEAM CONNECTIONS.
2. MINIMUM BOLT SCHEDULE APPLIES TO CHANNEL SECTIONS OF SAME NOMINAL DEPTHS, UNLESS NOTED OTHERWISE.
3. CONNECTIONS SHALL BE DESIGNED FOR LRFD FACTORED END REACTIONS SHOWN ON PLANS. IF NO REACTION IS SHOWN ON PLAN, DESIGN FOR REACTION IN SCHEDULE.
4. REFER TO PLAN FOR REQUIRED MOMENT CONNECTION



OPENING DIMENSIONS = 6" TO 1'-0"

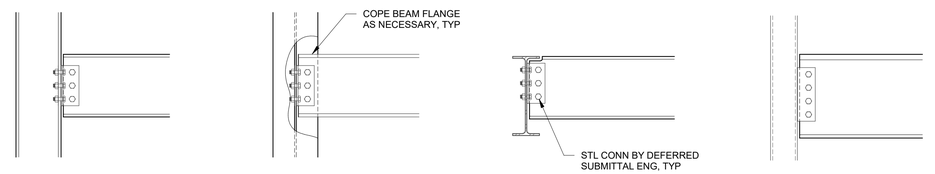
NOTES:
1. REINFORCING PLATE IS NOT REQUIRED FOR OPENINGS LESS THAN 6" X 6"
2. INDICATES THE LARGER OF THE OPENING SIZE DIMENSIONS = 6" TO 1'-0"
3. ONLY ONE OPENING ALLOWED PER DECK SPAN. ADJACENT OPENINGS SHALL BE SPACED TO ALLOW FOR A MINIMUM OF 2 UNDAMAGED FLUTES.
4. FOR OPENING LARGER THAN 1'-0" REFER TO OPENING IN ROOF DECK LARGER THAN 12"x12" DETAIL.

3 ROOF DECK REINFORCEMENT AT UNFRAMED ROOF OPENINGS
3/4" = 1'-0"



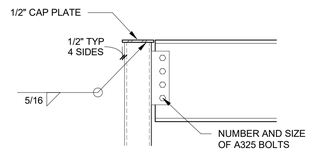
TYPICAL SPLICE PLAN

2 CONT ANGLE SPLICE DETAIL
NTS



BEAM TO FLANGE CONNECTIONS | BEAM TO WEB CONNECTIONS | BEAM TO BEAM CONNECTIONS | BEAM TO HSS

1 STEEL BEAM CONNECTION SCHEDULE AND DETAILS
3/4" = 1'-0"



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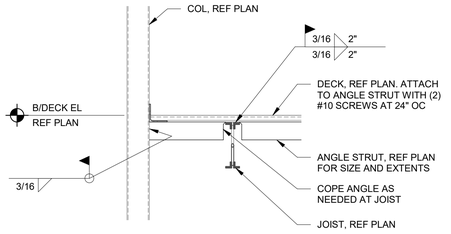
SHEET TITLE:
FRAMING SECTIONS

SHEET NUMBER:
S-502

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SEPTEMBER 30, 2026

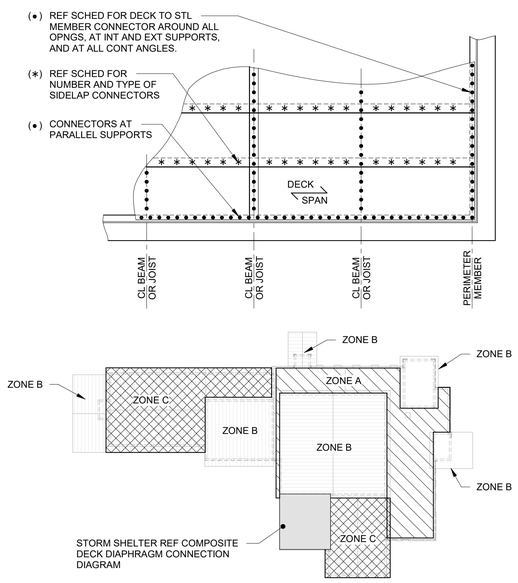
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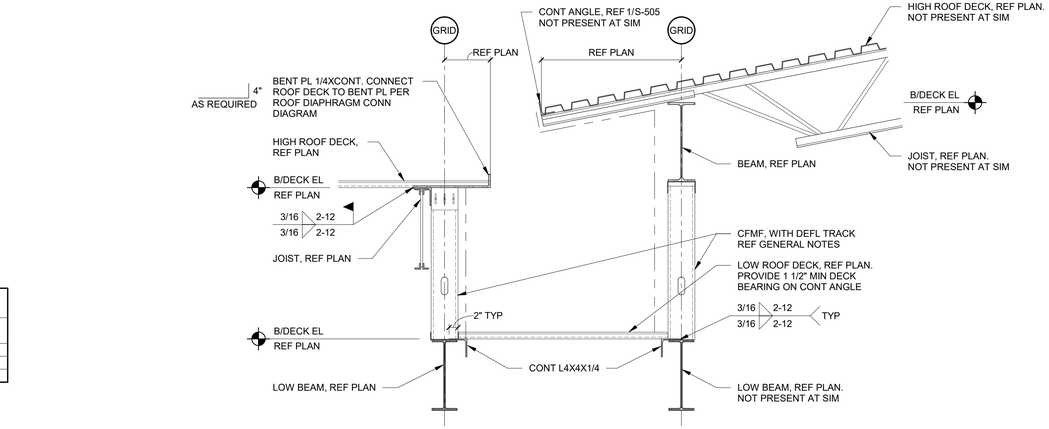
6 ANGLE STRUT DETAIL
3/4" = 1'-0"

ROOF DECK DIAPHRAGM CONNECTION SCHEDULE			
LOCATION	(•) DECK TO STEEL MEMBER CONNECTOR PATTERNED AND TYPE	(*) SIDELAP CONNECTOR NUMBER AND TYPE	(•) CONNECTIONS AT PARALLEL SUPPORT
ZONE A	36/5 - 5/8" DIA PUDDLE WELDS	(4) - #10 TEKS SCREWS PER SPAN	5/8" DIA PUDDLE WELDS AT 12" OC
ZONE B	36/4 - 5/8" DIA PUDDLE WELDS	(1) - #10 TEKS SCREWS PER SPAN	5/8" DIA PUDDLE WELDS AT 12" OC
ZONE C	36/4 - #10 TEKS SCREWS	(4) - #10 TEKS SCREWS PER SPAN	#10 TEKS SCREWS AT 12" OC

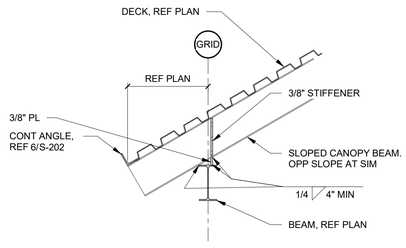
NOTES:
1. WELDING WASHERS SHALL BE USED WITH DECK THICKNESSES LESS THAN 22 GAGE.
2. COORDINATE REQUIREMENTS FOR VENTED DECK WITH CONCRETE INSULATING FILL.
3. ROOF DECK IS REQUIRED TO ACT AS A DIAPHRAGM. CONNECTION SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATION AND AS SHOWN IN SCHEDULE AND DETAIL.
4. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. DECK SPLICES ARE TO BE OVER SUPPORTS.
5. NO HANGING LOADS SHALL BE ATTACHED TO ROOF DECK.
6. HILTI PINS AND SIDELAP FASTENERS MAY BE USED AT THE CONTRACTOR'S SUBSTITUTION REQUEST. SUBMIT DECK CONNECTION CALCULATIONS THAT MEET OR EXCEED THE CAPACITY OF WHAT IS INDICATED IN THE SCHEDULE SIGNED AND SEALED BY AN ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. PERSONNEL INSTALLING HILTI FASTENERS SHALL RECEIVE ON SITE TRAINING FOR PROPER INSTALLATION BY A HILTI FIELD REPRESENTATIVE. CONTACT HILTI FOR ON SITE TRAINING.



3 ROOF DECK DIAPHRAGM CONNECTION
1" = 40'-0"

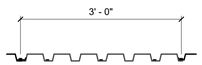


5 FRAMING DETAIL
3/4" = 1'-0"

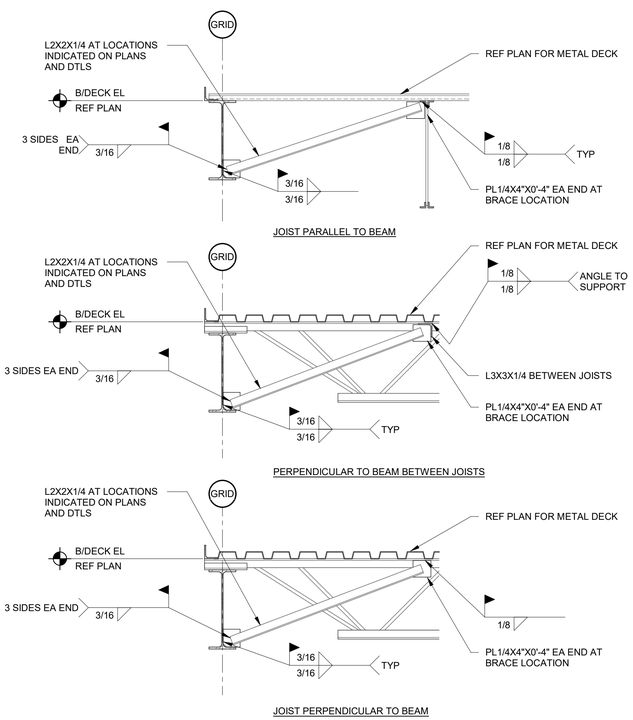


4 CANOPY FRAMING DETAIL
3/4" = 1'-0"

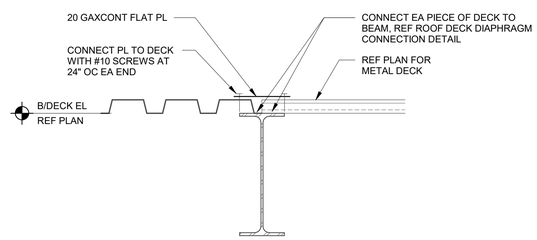
1.5B CONNECTOR PATTERN DIAGRAM (36/4)



1.5B CONNECTOR PATTERN DIAGRAM (36/5)



2 KICKER BRACE CONNECTION
3/4" = 1'-0"



1 ROOF DECK DIRECTION CHANGE DETAIL
1 1/2" = 1'-0"

STATE OF MISSOURI
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STATE OF MISSOURI
DARCEY L. SCHUMACHER
NUMBER PE-2009024305
PROFESSIONAL ENGINEER
09.29.2026

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: SEPTEMBER 30, 2026

CAD DWG FILE:
DRAWN BY: RPT
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DESIGNED BY: RLH

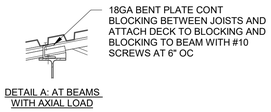
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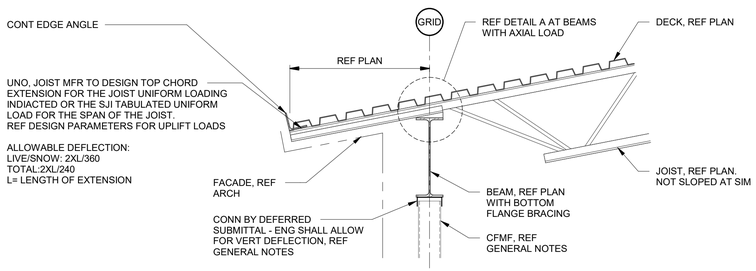
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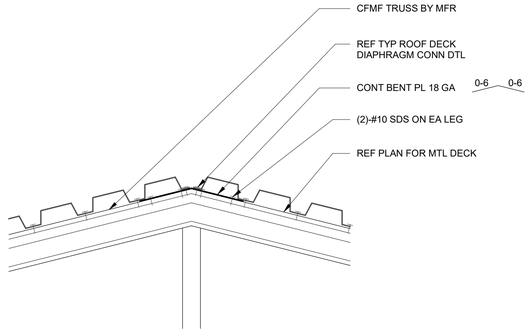
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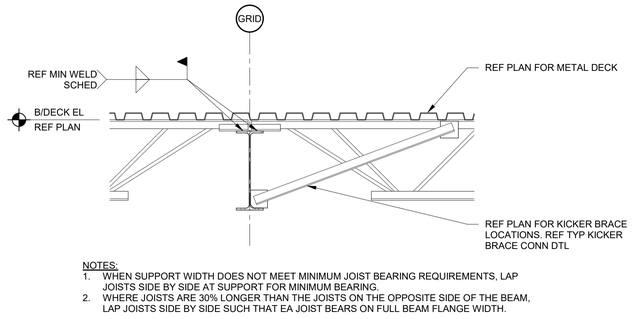




10 STEEL JOIST EXTENSION
3/4" = 1'-0"

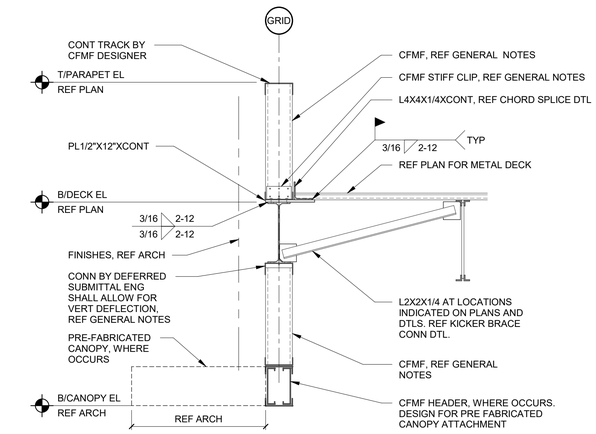


9 RIDGE LINE FRAMING DETAIL
1 1/2" = 1'-0"

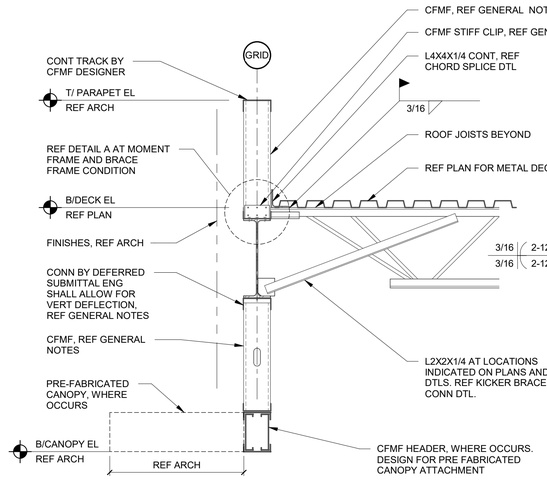


NOTES:
1. WHEN SUPPORT WIDTH DOES NOT MEET MINIMUM JOIST BEARING REQUIREMENTS, LAP JOISTS SIDE BY SIDE AT SUPPORT FOR MINIMUM BEARING.
2. WHERE JOISTS ARE 30% LONGER THAN THE JOISTS ON THE OPPOSITE SIDE OF THE BEAM, LAP JOISTS SIDE BY SIDE SUCH THAT EA JOIST BEARS ON FULL BEAM FLANGE WIDTH.

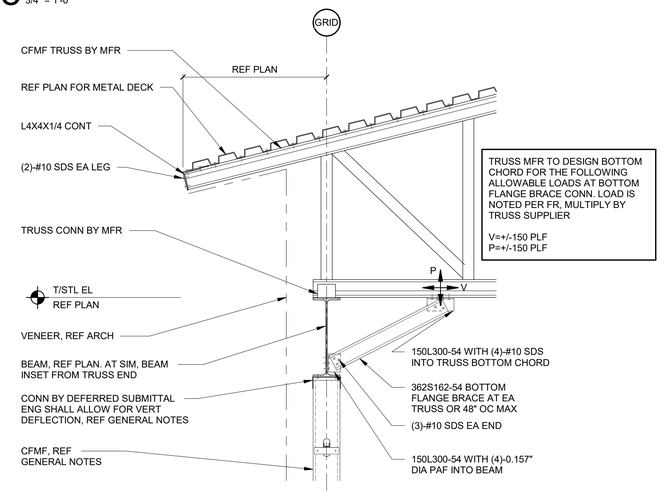
8 STEEL JOIST TO STEEL BEAM
3/4" = 1'-0"



7 JOIST TO EXTERIOR STEEL BEAM - INLINE FRAMING KICKER
3/4" = 1'-0"



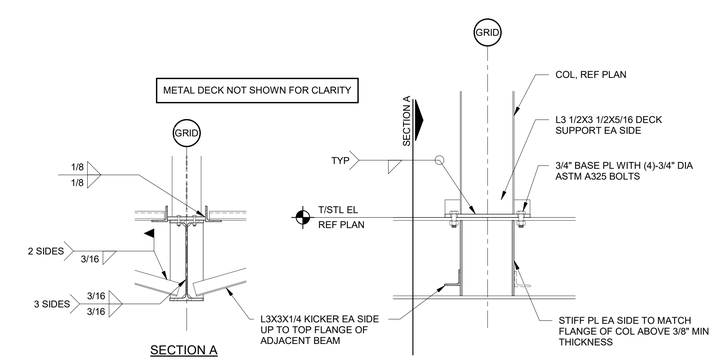
6 STEEL JOIST TO EXTERIOR STEEL BEAM
3/4" = 1'-0"



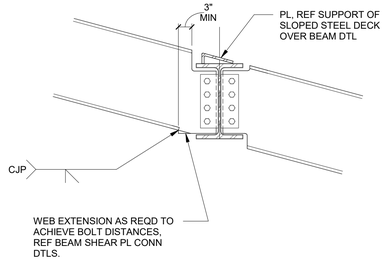
TRUSS MFR TO DESIGN BOTTOM CHORD FOR THE FOLLOWING ALLOWABLE LOADS AT BOTTOM FLANGE BRACE CONN. LOAD IS NOTED PER FR, MULTIPLY BY TRUSS SUPPLIER

V=+/-150 PLF
P=+/-150 PLF

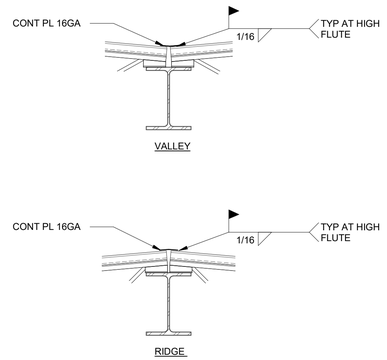
5 GABLE TRUSS END
3/4" = 1'-0"



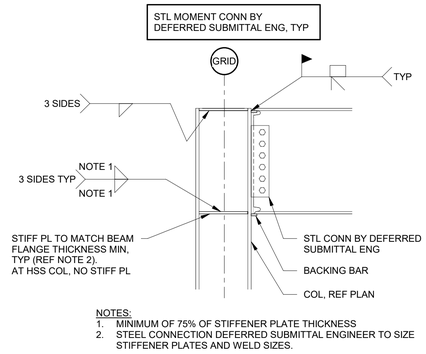
4 POST UP COLUMN
3/4" = 1'-0"



3 SLOPED BEAM CONNECTION
3/4" = 1'-0"



2 SUPPORT OF SLOPED STEEL DECK
3/4" = 1'-0"



NOTES:
1. MINIMUM OF 75% OF STIFFENER PLATE THICKNESS
2. STEEL CONNECTION DEFERRED SUBMITTAL ENGINEER TO SIZE STIFFENER PLATES AND WELD SIZES.

1 END COLUMN AT ROOF MOMENT CONNECTION
3/4" = 1'-0"

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PROJECT # C2512-01
SITE # 7033
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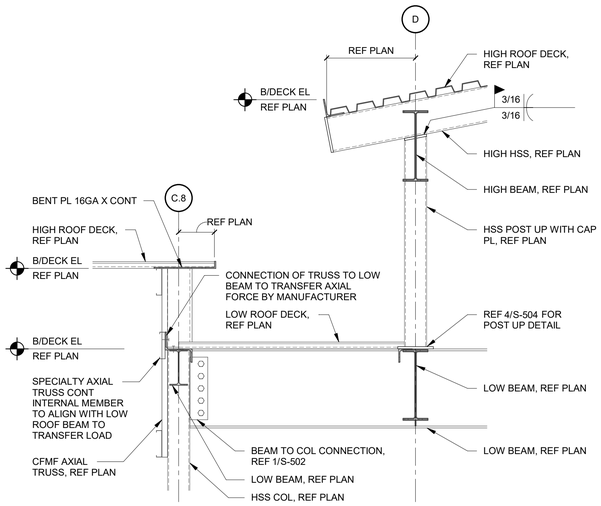
CAD DWG FILE:
DRAWN BY: RPT
CHECKED BY: DLS
DESIGNED BY: RLH

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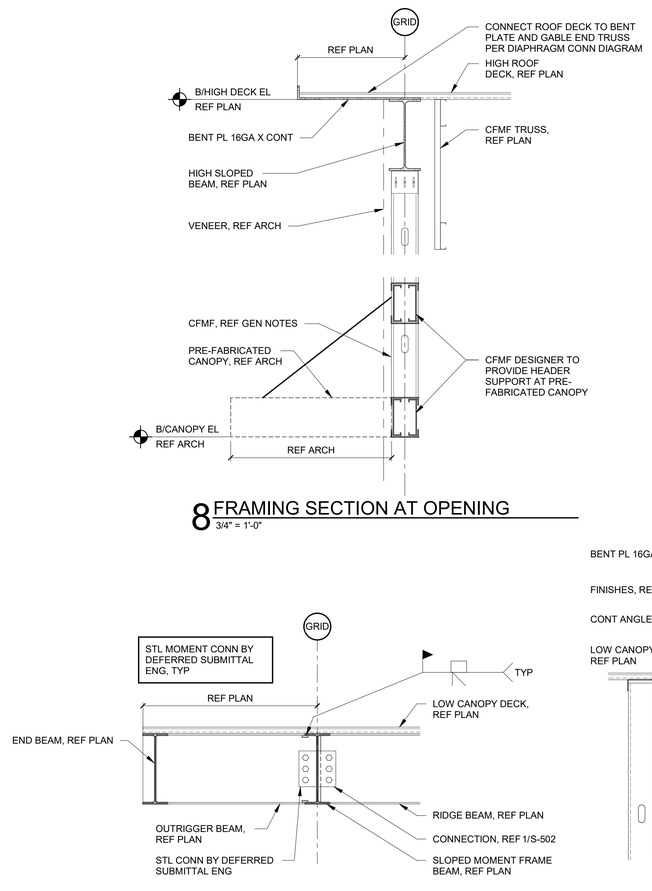
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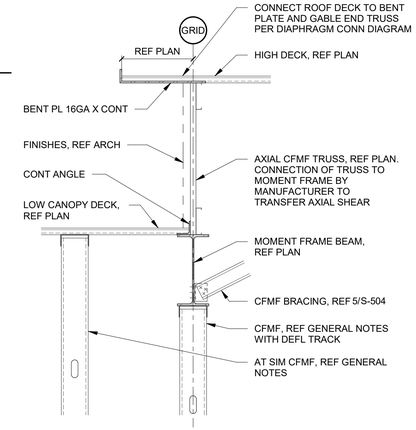


7 FRAMING DETAIL
3/4" = 1'-0"

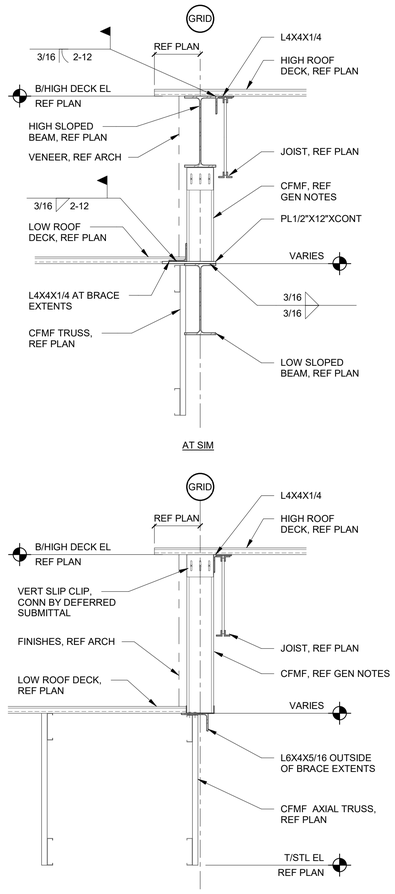


8 FRAMING SECTION AT OPENING
3/4" = 1'-0"

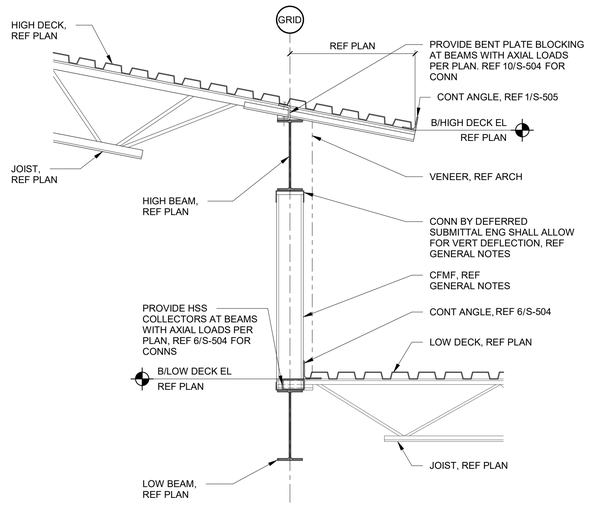
6 FRAMING DETAIL
3/4" = 1'-0"



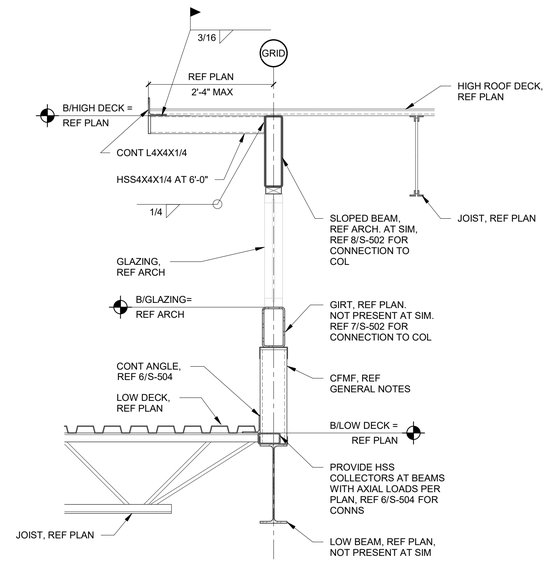
5 FRAMING DETAIL
3/4" = 1'-0"



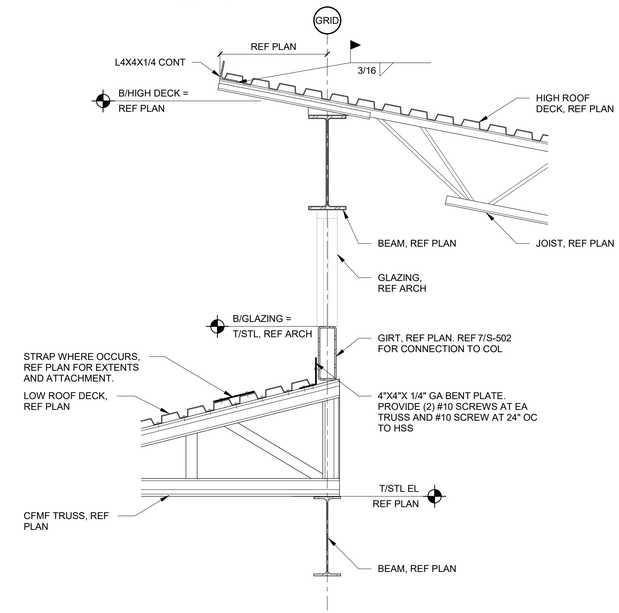
4 FRAMING DETAIL
3/4" = 1'-0"



3 FRAMING DETAIL
3/4" = 1'-0"



2 FRAMING DETAIL
3/4" = 1'-0"



1 CLESTORY DETAIL
3/4" = 1'-0"

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SEPTEMBER 30, 2026

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DEDICATED OUTSIDE AIR UNIT SCHEDULE (DX COOLING WITH GAS HEAT)

MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	MIN O.A. CFM	EXT. S.P. (IN W.G.)	FAN HP	FAN DRIVE TYPE	FAN TYPE	RPM	COOLING									HEATING-GAS			NOTES	ELECTRICAL									
										AMB. (°F)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL MBH	SENS. MBH	STAGES	ISMRE2	INPUT MBH	OUTPUT MBH	STAGES		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
DOAS-1	VALENT	VX-212-20I-M-F3	3,000	3,000	1	1	DIRECT	PLENUM	970	100	100	78	51.2	51	257.1	142.4	VARIABLE	7.3	400	324	VARIABLE	1-10	460	3	60	42.4	47.4	60	60A/NF/3P/3R	MDP	RE: ONE-LINE DIAGRAM	A

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. UNIT TO BE CONFIGURED FOR HORIZONTAL DISCHARGE.
3. PROVIDE WITH COTTONWOOD FILTERS SUCH AS AIR SOLUTION COMPANY MEDIUM DUTY COMMERCIAL GRADE FILTERS, HINGED ACCESS PANELS, DISCONNECT SWITCH, CONDENSATE DRAIN TRAP, AND DRAIN PAN OVERFLOW SWITCH TO SHUT DOWN UNIT IF DRAIN BECOMES CLOGGED.
4. PROVIDE WITH FACTORY DDC CONTROLLER WITH BACNET MSTP BMS INTERFACE.
5. PROVIDE WITH PHASE/BROWNOUT PROTECTION.
6. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
7. PROVIDE WITH INVERTER SCROLL COMPRESSOR ON LEAD CIRCUIT.
8. PROVIDE WITH LOW SOUND CONDENSING FANS WITH LEAD ECM CONDENSING FAN FOR MODULATING HEAD PRESSURE CONTROL.
9. PROVIDE WITH MODULATING HOT-GAS REHEAT.
10. PROVIDE MODULATING GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGER.

NOTES: A.

KITCHEN EXHAUST HOOD SCHEDULE

MARK	MANUFACTURER	EXHAUST CANOPY												GREASE FILTRATION			FIRE SUPPRESSION SYSTEM			LIGHTS		NOTES	ELECTRICAL									
		MODEL	UTILITY CABINET FOR FIRE SUPPRESSION CONTROLS	TYPE	CANOPY DIMENSIONS (LxDxH) (IN.)	PERFORATED SUPPLY PLENUM				EXHAUST PLENUM					ASSOCIATED EXHAUST FAN																		
						SA COLLAR QUANTITY	COLLAR DIMENSIONS (IN.)	COLLAR AIRFLOW (CFM)	COLLAR S.P. (IN W.G.)	EA COLLAR QUANTITY	COLLAR DIMENSIONS (IN.)	COLLAR AIRFLOW (CFM)	COLLAR S.P. (IN W.G.)	COLLAR VELOCITY (FPM)		MODEL	GREASE FILTER QUANTITY	SIZE (LxH) (IN.)	TYPE	SIZE	FLOW POINTS	FIXTURE TYPE	QUANTITY		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
H-1	ACCUREX	XXEW-97-S	REMOTE WALL MOUNT	I	97x54x24	3	22x12	485	0.01	1	14 DIAM.	1819	0.62	1702	KEF-1	X-TRACTOR	6	16x20	AMEREX KP	3.75	8	LED	2	1-6	115	1	60	12	15	15	N/A	L2	3/4"C, 2-#12 & 1-#12 G	A
H-2	ACCUREX	XD1-60-S	N/A	II	60x42x24	-	-	-	-	1	10 DIAM.	750	0.23	1375	KEF-2	-	-	-	-	-	-	-	-	1,2	115	1	60	12	15	15	N/A	L2	3/4"C, 2-#12 & 1-#12 G	A

NOTES:
1. REFER TO KITCHEN HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. MOUNT BOTTOM OF CANOPY 6'-8" ABOVE FINISHED FLOOR. COORDINATE WITH ARCHITECT.
3. FACTORY INSTALLED CONTROL PACKAGE IN UTILITY CABINET INSTALLED BY DIVISION 23 CONTRACTOR AND WIRED BY DIVISION 26 CONTRACTOR. ASSOCIATED EXHAUST FAN AND MAKE-UP AIR UNIT SHALL ENERGIZE WHEN HOOD IS ACTIVATED.
4. TEMPERATURE SENSOR INTERLOCK PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY DIVISION 26 CONTRACTOR. PROVIDE ONE SENSOR FOR EACH EXHAUST COLLAR PER IMC SECTION 507.2.1.1.
5. REMOTE PULL STATION FURNISHED WITH HOOD FOR FIELD INSTALLATION BY DIVISION 26 CONTRACTOR. PULL STATION SHALL BE LOCATED IN THE PATH OF EGRESS WITHIN 20 FEET OF THE RELEASE MECHANISM.
6. BALANCE EACH MAKE-UP AIR SUPPLY COLLAR TO THE INDICATED AIRFLOW.

NOTES: A. INTERLOCK WITH MAU, KEF AND FIRE ALARM SYSTEM FOR SHUT DOWN UPON ACTIVATION OF ANSUL SYSTEM.

MAKE-UP AIR UNIT SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	EXT. S.P. (IN W.G.)	FAN HP	FAN DRIVE TYPE	FAN TYPE	FAN SIZE	RPM	COOLING COIL-HYDRONIC									HEATING COIL-HYDRONIC								NOTES	ELECTRICAL									
										TOTAL MBH	SENS. MBH	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	FPI	ROWS	WPD (FT. HD.)	GPM	TOTAL MBH	EAT (°F)	LAT (°F)	FPI	ROWS	WPD (FT. HD.)	GPM		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
MAU-1	ACCUREX	XMSX-P109-H12-MF	1,455	0.5	1	DIRECT	MIXED-FLOW	9" DIAM.	2639	26.9	26.9	97	80	80.3	75.4	12	2	0.2	5.7	107.4	3	71.2	12	2	0.3	11.3	1-3	460	3	60	2.1	2.8	15	DIV 23	H1	3/4"C, 4-#12 & 1-#12 G	-

NOTES:
1. REFER TO KITCHEN HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. UNIT TO BE CONFIGURED FOR HORIZONTAL DISCHARGE.
3. INTERLOCK OPERATION WITH TYPE I HOOD CONTROL PANEL.

NOTES: A. INTERLOCK WITH HOOD CONTROL PANEL, KEF AND FIRE ALARM FOR SHUT DOWN UPON DISCHARGE OF ANSUL SYSTEM.

CHILLER SCHEDULE (AIR COOLED)

MARK NO.	MANUFACTURER	MODEL	TYPE	NOMINAL TONS	EER	IPLV	REFR. TYPE	EVAPORATOR						CONDENSER			NOTES	ELECTRICAL									
								EWT (°F)	LWT (°F)	FLOW (GPM)	FOULING FACTOR	NO. PASSES	PRESS. DROP (FT. H2O)	MIN. NO. OF STAGES	NO. OF CIRCUITS	AMBIENT (°F)		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
CH-1	TRANE	CGAM040	SCROLL	40	10.94	16.63	R-454B	54	44	96	0.0001	1	17.4	4	2	95	1-16	460	3	60	94.5	101	125	200A/NF/3P/3R	MDP	1-1/4"C, 4-#1 & 1-#4G	-

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WITH UNIT MOUNTED CONTROL PANEL WITH FACTORY DDC CONTROLLER WITH BACNET MSTP INTERFACE.
3. PROVIDE WITH SINGLE POINT POWER AND FACTORY CIRCUIT BREAKER WITH HIGH FAULT RATED CONTROL PANEL.
4. ADDITIONAL ELECTRICAL: PROVIDE EVAPORATOR HEATER AND BUFFER TANK EACH A DEDICATED 120VAC, SINGLE PHASE, 20 AMP POWER CIRCUIT.
5. CHILLER SHALL BE SELECTED FOR 30% PROPYLENE GLYCOL SOLUTION.
6. PROVIDE FLOW OR DIFFERENTIAL PRESSURE SWITCH.
7. PROVIDE CRANKCASE HEATER AND LOW AMBIENT CONTROL TO -20 F.
8. EVAPORATOR BASED ON FOULING FACTOR OF 0.0001.
9. PROVIDE FACTORY MOUNTED STARTERS.
10. PROVIDE CONCRETE HOUSEKEEPING PAD PER SPECIFICATIONS.
11. PROVIDE WITH 1.25" THICK (K=0.28) UV RATED EVAPORATOR INSULATION FOR HIGH HUMIDITY.
12. PROVIDE WITH COMPREHENSIVE SOUND ATTENUATOR PACKAGE.
13. PROVIDE WITH ELASTOMERIC VIBRATION ISOLATORS FOR FIELD INSTALLATION.
14. PROVIDE WITH PHASE PROTECTION.
15. PROVIDE WITH FACTORY PUMPING PACKAGE WITH TWO HIGH HEAD PUMPS, VFD'S, EXPANSION VESSELS, DRAINAGE VALVES, SHUT-OFF VALVES
16. PROVIDE WITH FACTORY BUFFER STORAGE TANK.

NOTES:

ELECTRIC WALL HEATER

MARK	MANUFACTURER	MODEL	MOUNTING	AIRFLOW (CFM)	HEATING (ELEC.)			NOTES	ELECTRICAL								
					INPUT (KW*)		OUTPUT (MBH)		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
					MAX	MIN												
EWH-1	BERKO	SSHOWH4007	RECESSED	100	4	1.8	13.7	1,2,4,5,6	277	1	60	14.4	18	20	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	
EWH-2	BERKO	SSHOWH4007	RECESSED	100	4	1.8	13.7	1,2,4,5,6	277	1	60	14.4	18	20	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	
EWH-3	BERKO	SSHOWH4007	RECESSED	100	4	1.8	13.7	1,2,4,5,6	277	1	60	14.4	18	20	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	
EWH-4	BERKO	SSHOWH4008	SURFACE	100	4	1.8	13.7	1,2,3,5,6	208	1	60	19.2	24	25	DIV 23	S	3/4"C, 2-#8 & 1-#10 G	

NOTES:
1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH AND TAMPER-RESISTANT THERMOSTAT.
2. PROVIDE WITH PROPORTIONAL HEATING CONTROL TO AUTOMATICALLY ADJUST WATTAGE OUTPUT.
3. PROVIDE WITH SURFACE MOUNTING FRAME PAINTED TO MATCH THE HEATER ENCLOSURE.
4. PROVIDE WITH RECESSED MOUNTING FRAME.
5. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.
6. PROVIDE WITH BUILDING MANAGEMENT SYSTEM ENABLE/DISABLE CONTACT.

*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.

NOTES: A.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

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SPLIT SYSTEM SCHEDULE (COOLING ONLY)

INDOOR UNIT											OUTDOOR UNIT					EFFICIENCY	
MARK NO.	MANUFACTURER	MODEL	CONFIGURATION	AIRFLOW CFM	EXT. S.P. (IN W.G.)	FAN W	COOLING EDB (°F)	COOLING EWB (°F)	COOLING TOTAL MBH	COOLING SENS. MBH	MARK NO.	MANUFACTURER	MODEL	COOLING STAGES	COOLING AMB. (°F)	COOLING EER OR SEER	NOTES
IDU-1	MITSUBISHI	PKA-AL12NL	WALL CASSETTE	375	-	30	80	67	12	8.8	ODU-1	MITSUBISHI	PUY-AK12NL	1	95	21.1 SEER2	1-7

ELECTRICAL																	
INDOOR UNIT										OUTDOOR UNIT									
VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES	VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG/SIZE	NOTES
208	1	60	0.2	0.3	20	20A/2P/1	L2	3/4"C, 3-#12 & 1-#12G		208	1	60	12.8	16	20	20A/NF/2P/3R	L2	3/4"C, 3-#12 & 1-#12G	A,B

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE ROOF MOUNTING RAILS.
3. DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE INDOOR UNIT WITH ACCESSORY CONDENSATE PUMP WITH WALL MOUNT ENCLOSURE.
6. PROVIDE WITH WALL MOUNT HARD WIRED REMOTE CONTROLLER.
7. PROVIDE LOW AMBIENT WIND BAFFLES FOR -20° F LOW AMBIENT OPERATION.

NOTES:
A. MAKE POWER CONNECTION TO OUTDOOR UNIT AND EXTEND CIRCUITRY FROM OUTDOOR UNIT TO INDOOR UNIT.
B. PROVIDE TOGGLE SWITCH FOR DISCONNECTING MEANS TO INDOOR UNIT.

NATURAL GAS HEATING HOT WATER BOILER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	MAX. INPUT MBH	MIN. INPUT MBH	MAX OUTPUT MBH	EFFICIENCY %	TURNDOWN RATIO	DESIGN FLOW (GPM)	EWT (°F)	LWT (°F)	WPD @ DESIGN GPM (FT H2O)	WATER VOLUME (GAL.)	GAS PRESSURE (IN. W.C.)	NOTES
B-1	LOCHINVAR	KBX0400N	399	39.9	387	97	10:1	38	120	140	10	4.4	4-14	1-4
B-2	LOCHINVAR	KBX0400N	399	39.9	387	97	10:1	38	120	140	10	4.4	4-14	1-4

ELECTRICAL									
VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
120	1	60	3	3.8	15	15A/1P/1	L2	3/4"C, 2-#12 & 1-#12 G	A
120	1	60	3	3.8	15	15A/1P/1	L2	3/4"C, 2-#12 & 1-#12 G	A

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE BOILER BURNER TRIM AND CONTROLS
3. PROVIDE CONCRETE HOUSEKEEPING PAD PER SPECIFICATIONS.
4. DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.

NOTES:
A. MOTOR RATED TOGGLE SWITCH FOR DISCONNECTING MEANS.

PUMP SCHEDULE

MARK NO.	MANUFACTURER	MODEL	FLUID	TEMP (°F)	FLOW RATE (GPM)	HEAD (FT.)	PUMP EFFICIENCY (%)	MOTOR SPEED (RPM)	MOTOR SIZE (HP)	NOTES
P-1	GRUNDFOS	MAGNA3 40-80 GF 115V	30% PROPYLENE GLYCOL	140	38	20	56	3896	0.38	1-4
P-2	GRUNDFOS	MAGNA3 40-80 GF 115V	30% PROPYLENE GLYCOL	140	38	20	56	3896	0.38	1-4
P-3	GRUNDFOS	TPE3 40-240 3x440-480V	30% PROPYLENE GLYCOL	140	54	60	57	5055	2	1-4
P-4	GRUNDFOS	TPE3 40-240 3x440-480V	30% PROPYLENE GLYCOL	140	54	60	57	5055	2	1-4

ELECTRICAL									
VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
115	1	60	7.2	9	15	15A/1P/1	L2	3/4"C, 2-#12 & 1-#12 G	A
115	1	60	7.2	9	15	15A/1P/1	L2	3/4"C, 2-#12 & 1-#12 G	A
460	3	60	3.4	4.3	15	30A/NF/3P/1	H1	3/4"C, 2-#12 & 1-#12 G	-
460	3	60	3.4	4.3	15	30A/NF/3P/1	H1	3/4"C, 2-#12 & 1-#12 G	-

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. APPROVED ALTERNATE MANUFACTURERS: TACO, ARMSTRONG, BELL & GOSSETT.
3. DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.
4. PROVIDE INLINE PUMP WITH INTEGRATED VFD.

NOTES:
A. MOTOR RATED TOGGLE SWITCH FOR DISCONNECTING MEANS.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN W.G.)	FAN TYPE	SONES	RPM	DRIVE	HP / WATTS	NOTES
EF-1	GREENHECK	CSP-A390	INLINE CABINET	300	0.5	FC	3.5	1243	DIRECT	1/12 HP	1,3
EF-2	GREENHECK	CSP-A390	INLINE CABINET	300	0.5	FC	3.5	1243	DIRECT	1/12 HP	1,3
EF-3	GREENHECK	CSP-A390	INLINE CABINET	300	0.5	FC	3.5	1243	DIRECT	1/12 HP	1,3
EF-4	GREENHECK	CSP-A390-VG	INLINE CABINET	175	0.6	FC	2	1352	DIRECT	1/10 HP	1,3
EF-5	GREENHECK	CSP-A390-VG	INLINE CABINET	265	0.6	FC	2	1418	DIRECT	1/10 HP	1,3,6
KEF-1	ACCUREX	XCUE-140-A	ROOF MOUNTED UPBLAST	1,819	1.12	BC	13.8	1725	DIRECT	1-1/2 HP	1,2,4
KEF-2	ACCUREX	XCUE-100HP-VG	ROOF MOUNTED UPBLAST	750	1.05	BC	13.5	2397	DIRECT	1/2 HP	1,2,5

ELECTRICAL										
VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	EM POWER	NOTES
115	1	60	1.42	1.8	15	30A/NF/1P/3R	L2	3/4"C, 2-#12 & 1-#12 G	-	-
115	1	60	1.42	1.8	15	30A/NF/1P/3R	L2	3/4"C, 2-#12 & 1-#12 G	-	-
115	1	60	1.42	1.8	15	30A/NF/1P/3R	L2	3/4"C, 2-#12 & 1-#12 G	-	-
115	1	60	1.5	1.9	15	30A/NF/1P/3R	S	3/4"C, 2-#12 & 1-#12 G	Y	-
115	1	60	1.5	1.9	15	30A/NF/1P/3R	S	3/4"C, 2-#12 & 1-#12 G	Y	-
460	3	60	3	3.75	15	30A/NF/3P/3R	H1	3/4"C, 4-#12 & 1-#12 G	-	A
115	1	60	6.6	8	15	30A/NF/1P/3R	L2	3/4"C, 2-#12 & 1-#12 G	-	A

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO KITCHEN HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE WITH DISCONNECT SWITCH, SPEED CONTROLLER, BACKDRAFT DAMPER, AND HANGING VIBRATION ISOLATORS.
4. INTERLOCK FAN OPERATION WITH TYPE I HOOD CONTROLS.
5. INTERLOCK FAN OPERATION WITH DISHWASHER.
6. FAN FOR EMERGENCY SHELTER VENTILATION. PROVIDE MANUAL SWITCH TO OPERATE FAN. COORDINATE SWITCH LOCATION WITH OWNER.

NOTES:
A. INTERLOCK WITH HOOD CONTROL PANEL, MAU AND FIRE ALARM SYSTEM FOR SHUT DOWN UPON ACTIVATION OF ANSUL SYSTEM.

WATER HEATER SCHEDULE (HIGH EFFICIENCY GAS)

MARK	MANUFACTURER	MODEL	TANK LINING	TANK CAPACITY (GAL)	RECOVERY (GPH @ 100°F)	INPUT (MBH)	MIN. THERMAL EFF, %	VENT SIZE (IN.)	THERMAL EXP TANK MODEL NO.	NOTES
DWH-1,2	RHEEM	GHE100SU-200	GLASS	100	233 each	199	97	3	PLT-12	1,2,3,4

ELECTRICAL										
VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	EM POWER	NOTES
120	1	60	-	-	-	20A/1P TOGGLE	-	RE: PANEL SCHEDULE	-	-

NOTES:
1. PROVIDE WITH SPARK IGNITION, TEMPERATURE AND PRESSURE RELIEF VALVE AND DRAIN WITH CONDENSATE NEUTRALIZATION KIT.
2. PROVIDE WITH CONTROL THERMAL EXPANSION TANK, WATTS MODEL AND SCHEDULED WITH WATTS SCV SERVICE CHECK VALVE.
3. PROVIDE SEALED COMBUSTION WITH CONCENTRIC WALL OR ROOF VENT KIT.
4. FURNISH WATER HEATERS FOR PARALLEL INSTALLATION. ALL PIPING SHALL BE SYMMETRICAL.

NOTES: A.

* REFER TO PANELBOARD SCHEDULES AND BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR WIRE SIZING.

PLUMBING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	USE	TYPE	FLOW (GPM)	HEAD (FT.)	RPM	HP	NOTES
CP-1	BELL & GOSSETT	PL30B	RECIRC	INLINE	2	10	2650	1/12	1

ELECTRICAL										
VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	EM POWER	NOTES
120	1	60	-	-	-	-	-	RE: PANEL SCHEDULE	-	-

NOTES:
1. PROVIDE WITH AQUASTAT AND AUTOMATIC TIMER KIT.

NOTES: A.

* REFER TO PANELBOARD SCHEDULES AND BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR WIRE SIZING.

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MIKE KEHOE, GOVERNOR

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FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	ARRANGEMENT	MIN OA CFM	SUPPLY FAN						COOLING COIL-HYDRONIC										HEATING COIL-HYDRONIC							NOTES	ELECTRICAL									
					AIRFLOW CFM	FAN TYPE	NO. FANS	FAN SIZE (HP)	ESP (IN W.G.)	TSP (IN W.G.)	TOTAL MBH	SENS. MBH	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	FPM	ROWS	WPD (FT. HD.)	GPM	TOTAL MBH	EAT (°F)	LAT (°F)	FPM	ROWS	WPD (FT. HD.)	GPM		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
FCU-1	TRANE	BCHE036	HORIZONTAL	140	1120	FC	1	1	0.5	1.32	28.2	22.7	71.9	61.1	53.4	52.2	420	6	4.7	6.6	25.1	70	90.8	420	1	2.2	2.4	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-2	TRANE	BCHE024	HORIZONTAL	120	800	FC	1	1	0.5	1.51	16.9	13.8	71.7	61.6	56	54.3	480	6	10.3	7	12.5	70	84.5	480	1	0.4	1.1	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-3	TRANE	BCHE054	HORIZONTAL	130	1400	FC	1	1	0.5	1.16	28	26.8	72	60.7	54.6	53.7	379	6	3.1	9.5	47.7	70	101.5	379	2	1.4	4.1	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-4	TRANE	BCHE036	HORIZONTAL	240	1100	FC	1	1	0.5	1.35	28.4	23.1	72.4	61.2	53.3	52.1	413	6	4.7	6.7	38.2	70	102.1	413	2	2.4	2.9	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	-
FCU-5	TRANE	BCHE036	HORIZONTAL	120	960	FC	1	1/2	0.5	1.15	25.5	20	71.9	61.3	52.9	51.9	360	6	3.8	5.9	22.6	70	91.8	360	1	1.9	2.2	1-7	277	1	60	3.8	4.7	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-6	TRANE	FCCB040	HORIZONTAL	40	350	FC	1	0.24	0.4	0.79	5.8	5.8	72.2	60	57.1	54.2	-	3	3.4	1.3	7.6	70	89.9	-	1	2.2	0.8	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-7	TRANE	BCHE036	HORIZONTAL	150	1000	FC	1	1	0.5	1.2	27.2	20.3	71.7	61.7	53.2	52.1	375	6	4.3	6.3	23.2	70	91.4	375	1	1.9	2.3	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-8	TRANE	BCHE054	HORIZONTAL	200	1500	FC	1	1	0.5	1.04	29	26.7	71.9	61.1	55.7	54.4	406	4	3	6.8	17.5	70	80.8	406	1	0.2	1.6	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	-
FCU-9	TRANE	BCHE036	HORIZONTAL	390	1000	FC	1	1	0.5	1.22	29.1	20.6	72.1	62.4	53.3	52.2	375	6	4.8	6.7	23.2	70	91.4	375	1	1.9	2.3	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-10	TRANE	FCCB040	HORIZONTAL	140	320	FC	1	0.24	0.4	0.79	6.2	4.3	71.4	64.9	58.9	58.7	-	3	3.9	1.3	7.2	70	90.7	-	1	2	0.8	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-11	TRANE	BCHE024	HORIZONTAL	80	740	FC	1	1	0.5	1.33	14.9	13.8	72	60.6	55	53.5	444	6	7.4	5.8	11.5	70	84.4	444	1	0.4	1	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-12	TRANE	BCHE036	HORIZONTAL	70	1110	FC	1	1	0.5	1.32	23.3	20.4	72.1	61.4	55.4	54.1	416	6	2.4	4.5	38.3	70	102	416	2	2.4	2.9	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-13	TRANE	FCCB040	HORIZONTAL	160	320	FC	1	0.24	0.4	0.8	6.3	4.3	71.4	65	59	58.8	-	3	3.9	1.4	7.2	70	90.7	-	1	2	0.8	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-14	TRANE	BCHE036	HORIZONTAL	50	820	FC	1	1/2	0.5	0.86	14.8	14.3	72.1	61.3	56.3	55.1	308	4	4.7	4.7	20.3	70	92.9	308	1	1.6	2	1-7	277	1	60	3.8	4.7	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-15	TRANE	FCCB040	HORIZONTAL	60	390	FC	1	0.24	0.4	0.91	7.1	6.3	71.9	62.7	57	56.6	-	3	8.5	2.1	8	70	88.9	-	1	2.5	0.9	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-16	TRANE	BCHE024	HORIZONTAL	70	750	FC	1	1	0.5	1.37	14.5	12.4	72	61.9	56.9	55.3	450	6	4.6	4.4	11.7	70	84.4	450	1	0.4	1	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-17	TRANE	BCHE090	HORIZONTAL	230	2800	FC	1	1-1/2	0.5	1.26	71.5	50.7	72	63	55.5	54.4	458	4	9.4	19.2	34	70	81.2	458	1	0.3	3.5	1-7	460	3	60	2.6	3.3	15	DIV 23	H1	3/4"C, 4-#12 & 1-#12 G	-
FCU-18	TRANE	FCCB030	HORIZONTAL	70	230	FC	1	0.24	0.4	0.75	5.5	3.5	71.7	65.2	57.9	57.5	-	3	5.5	1.8	4.7	70	88.9	-	1	0.8	0.5	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-19	TRANE	BCHE024	HORIZONTAL	240	770	FC	1	1	0.5	1.47	14.5	10.2	71.7	64	59.6	57.9	462	6	3.2	3.6	12	70	84.5	462	1	0.4	1	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	-
FCU-20	TRANE	FCCB020	HORIZONTAL	50	200	FC	1	0.24	0.4	0.68	4.2	2.8	71.7	65.2	59.1	58.6	-	3	1.9	0.9	4.4	70	90.1	-	1	0.7	0.5	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-21	TRANE	FCCB020	HORIZONTAL	50	200	FC	1	0.24	0.4	0.68	4.8	3.2	71.8	64.5	57.2	56.6	-	3	4.4	1.6	4.4	70	90.1	-	1	0.7	0.5	1-7	277	1	60	1.6	2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-22	TRANE	BCHE036	HORIZONTAL	150	1300	FC	1	1	0.5	1.54	28.9	27	72.3	59.8	53.3	51.8	488	6	5.2	7	45.9	70	102.7	488	2	3.7	3.6	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A
FCU-23	TRANE	BCHE036	HORIZONTAL	50	1100	FC	1	1	0.5	1.27	26.7	23.1	72.1	60.4	52.9	51.7	413	6	4.2	6.3	24.8	70	90.9	413	1	2.1	2.4	1-7	277	1	60	5.8	7.2	15	DIV 23	H1	3/4"C, 2-#12 & 1-#12 G	A

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WITH BACK INLET CONNECTION.
3. PROVIDE WITH FRONT OUTLET CONNECTION.
4. PROVIDE HORIZONTAL CONCEALED CABINET STYLE.
5. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
6. PROVIDE WITH SIMPLE TERMINAL BLOCK CONTROL INTERFACE FOR USE WITH A FIELD SUPPLIED LOW-VOLTAGE CONTROLLER FURNISHED BY CONTROLS CONTRACTOR.
7. PROVIDE WITH FACTORY DELUXE PIPING PACKAGE.

NOTES:
A. MULTIPLE UNITS CONNECTED TO SHARED CIRCUIT. REFERENCE PANEL SCHEDULE.

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MIKE KEHOE,
GOVERNOR

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GREGORY J. FENDLER
NUMBER PE-2006037230
PROFESSIONAL ENGINEER
09.30.2026

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DESIGN AND CONSTRUCTION

DEPARTMENT OF
Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

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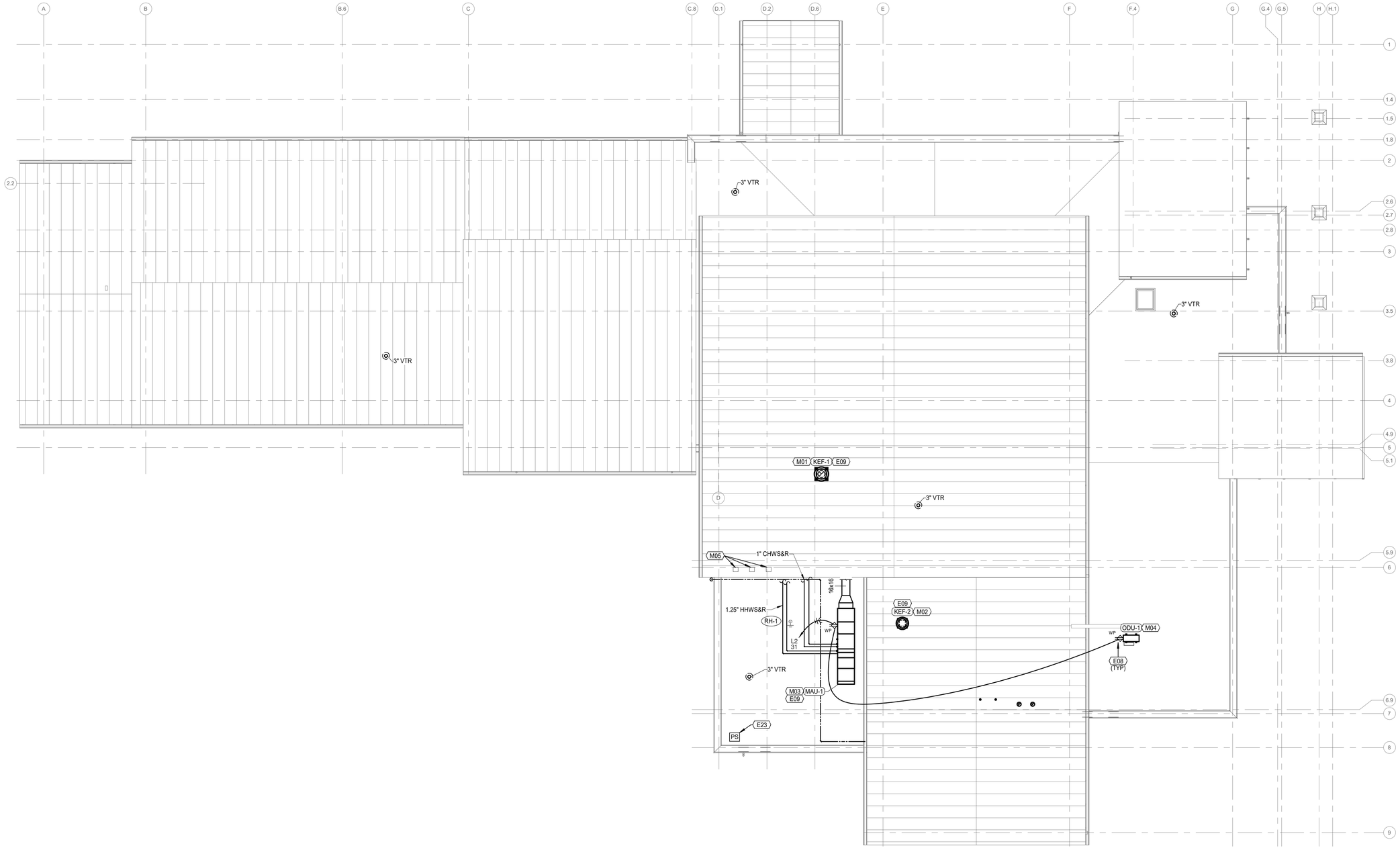
SHEET NUMBER:
MEP-103

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ROOF PLAN - MEP

SCALE: 1/8" = 1'-0"

M FLOOR PLAN NOTES

M01 PROVIDE ROOF MOUNTED GREASE EXHAUST FAN AND CURB.

M02 PROVIDE ROOF MOUNTED EXHAUST FAN AND CURB.

M03 PROVIDE ROOF MOUNTED MAKE-UP AIR UNIT AND CURB. PROVIDE FLEXIBLE CONNECTOR ON SUPPLY DUCT CONNECTION.

M04 PROVIDE CONDENSING UNIT ON ROOF MOUNTED ON EQUIPMENT SUPPORT RAILS, RAILS TO SPAN A MINIMUM OF TWO ROOF JOISTS. FASTEN TO UNIT LEVEL TO RAIL PER CONDENSING UNIT MANUFACTURER'S RECOMMENDATIONS. PROVIDE BOOTS AND CLAMPS FOR REFRIGERANT LINE ROOF PENETRATIONS. REFRIGERANT ROUTING TO BE APPROVED BY MANUFACTURER. CONTRACT WITH ROOFING CONTRACTOR TO FLASH AND SEAL SUPPORT RAIL TO MAINTAIN ROOFING WARRANTY. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

M05 PROVIDE ALUMINUM DRYER WALL VENT WITH INTEGRAL BACKDRAFT DAMPER, FAMCO MODEL DWV4A OR APPROVED EQUAL.

E FLOOR PLAN NOTES

E08 MOUNT WP/GFI RECEPTACLE TO SIDE OF UNIT.

E09 INTERLOCK EQUIPMENT WITH HOOD CONTROL PANEL, ANSUL SYSTEM AND FIRE ALARM SYSTEM.

E23 PROVIDE PHOTOCELL FOR SITE LIGHTING CONTROL. RE: LIGHTING PLANS FOR SWITCH OVERRIDE LOCATION.

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ROOF PLAN - MEP

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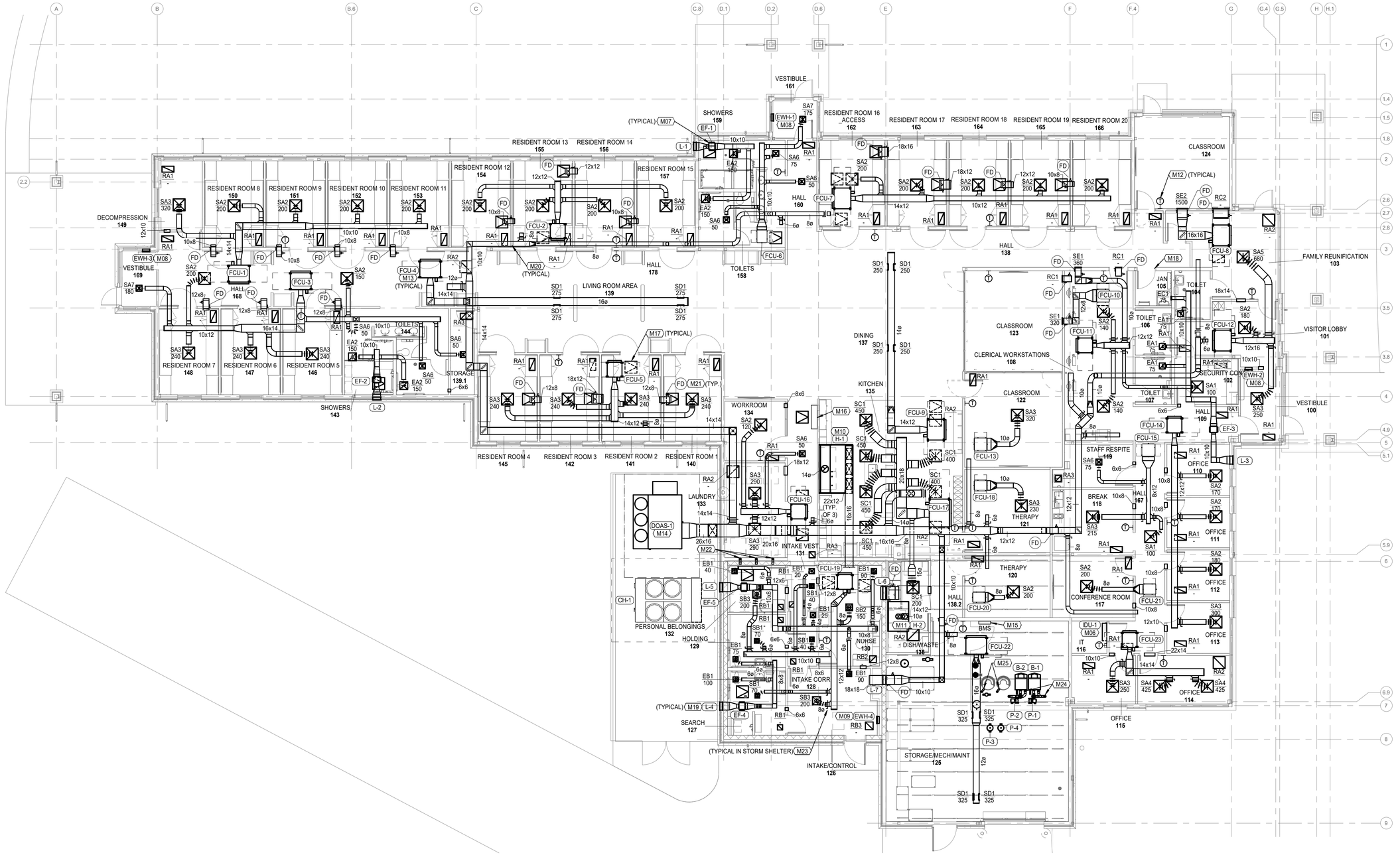
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FIRST FLOOR - MECHANICAL

SCALE: 1/8" = 1'-0"

M. FLOOR PLAN NOTES

M06 PROVIDE WALL MOUNTED FAN COIL UNIT. PROVIDE THERMOSTAT MOUNTED AT 48" AFF. REFRIGERANT ROUTING TO BE APPROVED BY MANUFACTURER. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

M07 PROVIDE INLINE EXHAUST FAN. SUPPORT FAN FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND THREADED ROD WITH VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON THE INLET AND DISCHARGE DUCT CONNECTIONS.

M08 PROVIDE ELECTRIC WALL HEATER WITH RECESSED MOUNTING ENCLOSURE IN THIS LOCATION. MOUNT BOTTOM OF HEATER 1 FT ABOVE FINISH FLOOR.

M09 PROVIDE ELECTRIC WALL HEATER WITH SURFACE MOUNTING ENCLOSURE IN THIS LOCATION. MOUNT BOTTOM OF HEATER 1 FT ABOVE FINISH FLOOR.

M10 PROVIDE TYPE I GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREAD SUPPORT UNDER DUCTWORK AS REQUIRED. TRANSITION DUCT FROM HOOD TO DUCT SIZES SHOWN. REFER TO HOOD DRAWINGS FOR HOOD INFORMATION. PROVIDE LISTED TYPE I DOUBLE WALL KITCHEN EXHAUST DUCTWORK FROM HOOD TO FAN ON ROOF ABOVE.

M11 PROVIDE TYPE II DISHWASHER HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREAD SUPPORT UNDER DUCTWORK AS REQUIRED. TRANSITION DUCT FROM HOOD TO DUCT SIZES SHOWN. REFER TO HOOD DRAWINGS FOR HOOD INFORMATION.

M12 CONTROLS CONTRACTOR TO PROVIDE SPACE TEMPERATURE SENSOR. MOUNT ON WALL 48" ABOVE FINISHED FLOOR. SENSORS IN RESIDENT AREAS SHALL BE BUTTON TYPE.

M13 PROVIDE FAN COIL UNIT. INSTALL UNIT LEVEL FOR PROPER CONDENSATE DRAINAGE. SUPPORT UNIT FROM STRUCTURE ABOVE WITH CHANNEL AND ALL-THREAD ROD WITH SPRING VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTOR ON THE SUPPLY AIR DUCT CONNECTION.

M14 PROVIDE PACKAGED DEDICATED OUTSIDE AIR UNIT. SUPPORT ON EQUIPMENT RAILS ON CONCRETE HOUSEKEEPING PAD. SHIM UNIT LEVEL FOR PROPER CONDENSATE DRAINAGE. PROVIDE FLEXIBLE CONNECTOR ON SUPPLY AIR DUCT CONNECTION. TRANSITION TO DUCT SIZE SHOWN.

M15 BUILDING MANAGEMENT SYSTEM CONTROL PANEL BY CONTROLS CONTRACTOR. COORDINATE EXACT LOCATION WITH OWNER AND ELECTRICAL CONTRACTOR.

M16 PROVIDE REMOTE WALL MOUNTED UTILITY / FIRE CABINET FURNISHED WITH TYPE I EXHAUST HOOD. MOUNT TO WALL ABOVE CEILING IN HALLWAY.

M17 PROVIDE 24x24 ACCESS PANEL FOR MECHANICAL EQUIPMENT AT LOCATION SHOWN. VERIFY EXACT LOCATION OF EQUIPMENT ACCESS PRIOR TO INSTALLATION. COORDINATE ACCESS PANEL TYPE AND FINISH WITH ARCHITECT.

M18 UNDERCUT DOOR 1" FOR RETURN/TRANSFER AIR.

M19 PROVIDE LOUVER IN WALL. MOUNT BOTTOM OF LOUVER 10'-0" ABOVE FINISHED FLOOR OR AS HIGH AS POSSIBLE. COORDINATE LOCATION WITH STRUCTURE.

M20 FLASH DUCT PENETRATION THROUGH 1HR RATED WALL AND SEAL WITH FIRE RESISTIVE CAULK.

M21 PROVIDE U.L. LISTED FIRE DAMPER ASSEMBLY IN WALL. INSTALL FIRE DAMPER IN STRICT ACCORDANCE WITH DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

M22 PROVIDE "THE DRYERBOX MODEL 425" AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONNECT AND EXTEND 4" DRYER DUCT UP AS INDICATED. DRYER DUCT SHALL BE CONSTRUCTED USING RIVETS AND ALUMINUM TAPE. NO SCREWS ALLOWED. REFER TO ROOF PLAN FOR TERMINATION.

M23 PROVIDE YOUNG REGULATOR MODEL 5020-CC ROUND CABLE CONTROLLED BALANCING DAMPER, MODEL 270-301EZ BOWDEN CABLE CONTROL KIT, AND BCW CONTROL WIRE AND CASINGS. COORDINATE INSTALLATION LOCATION WITH ARCHITECT AND MOUNT CABLE CONTROLLER IN CEILING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

M24 PROVIDE BOILER FLUE VENTING AND COMBUSTION AIR INTAKE PIPING IN STRICT ACCORDANCE WITH BOILER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE VERTICAL CONCENTRIC VENT TERMINATION THROUGH ROOF. VENTING AND INTAKE SHALL BE A COMPLETE SYSTEM FROM BOILER MANUFACTURER'S APPROVED LIST.

M25 PROVIDE DOMESTIC WATER HEATER FLUE VENTING AND COMBUSTION AIR INTAKE PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE VERTICAL CONCENTRIC VENT TERMINATION THROUGH ROOF. VENTING AND INTAKE SHALL BE A COMPLETE SYSTEM FROM MANUFACTURER'S APPROVED LIST.

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FIRST FLOOR - MECHANICAL

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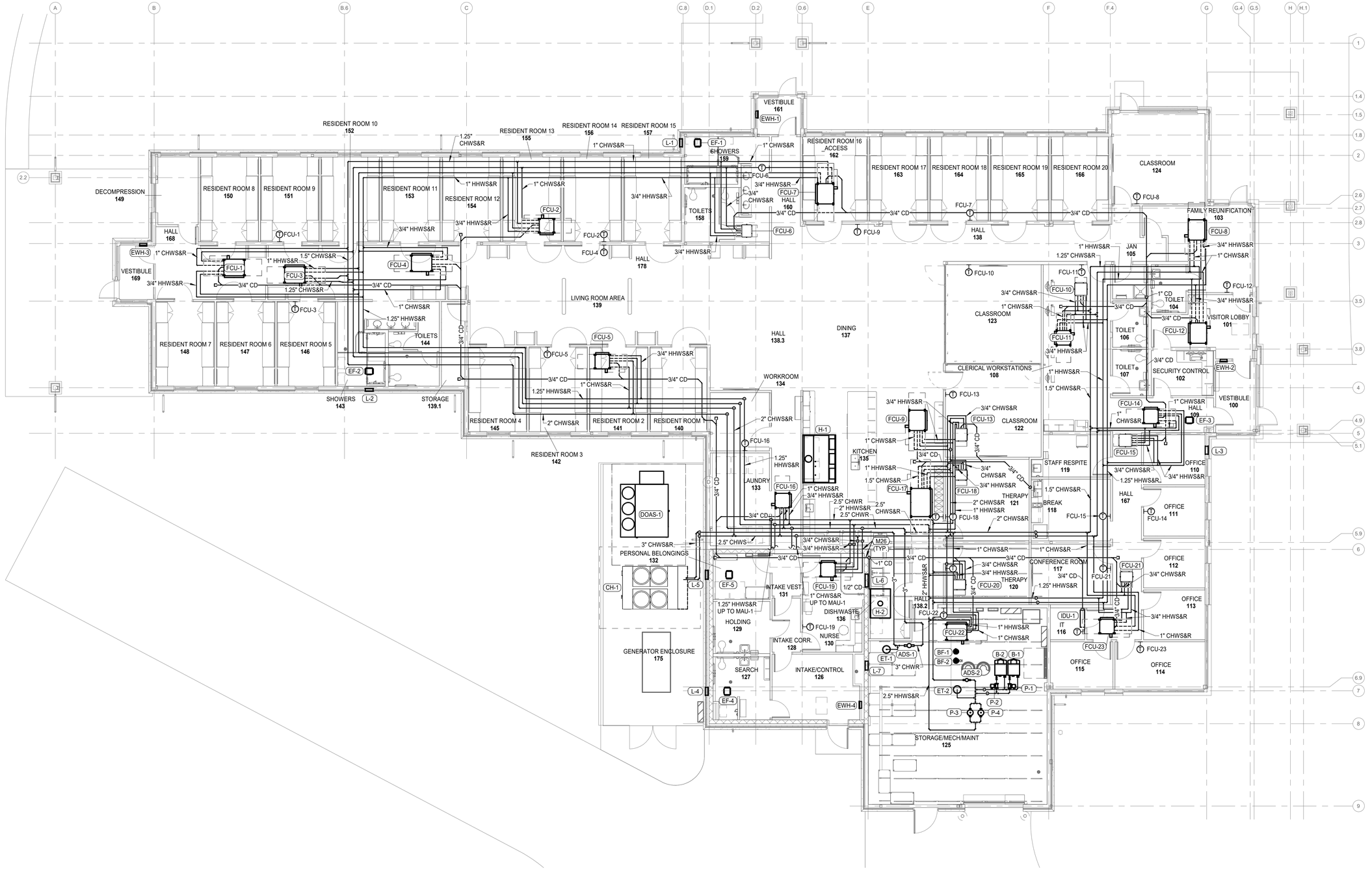
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FIRST FLOOR - MECHANICAL PIPING

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

M26 PROVIDE WALL PIPING SHROUD AT PIPE PENETRATIONS THROUGH STORM SHELTER WALLS. SHROUD SHALL BE RPH CYCLONE WALL SHROUD (CWS) OR ENGINEER APPROVED EQUAL.

STATE OF MISSOURI
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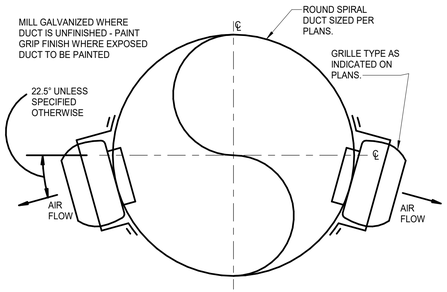
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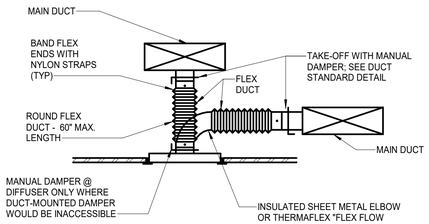
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NOTE: CONTRACTOR SHALL PROVIDE FABRICATION DETAIL OF GRILLE W/SHOP DRAWINGS. FAILURE TO DO SO WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION TO RELOCATE GRILLES AND PROVIDE NEW MAIN DUCTWORK IF ACCEPTABLE TO ARCHITECT/ENGINEER.

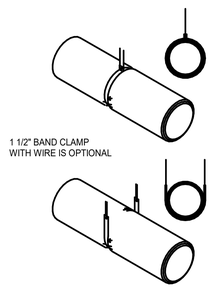


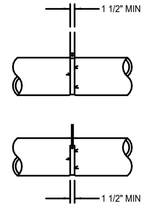
SPIRAL DUCT SUPPLY DIFFUSER DETAIL
NOT TO SCALE



NOTE:
1. BRANCH DUCT RUNOUT TO DIFFUSER SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.
2. IN LOCATIONS WHERE TAKEOFFS ARE INSTALLED ABOVE HARD OR NON-ACCESSIBLE CEILINGS CONTRACTOR TO PROVIDE SCREWS TO PREVENT BRANCH DUCT FROM SLIDING OFF FITTING. INSPECT PRIOR TO CEILING INSTALLATION.

DIFFUSER DETAIL
NOT TO SCALE

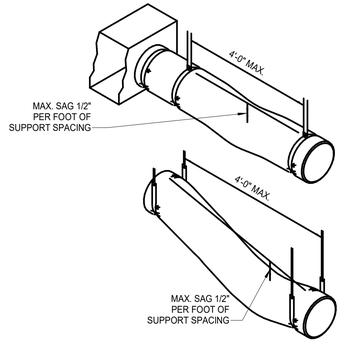




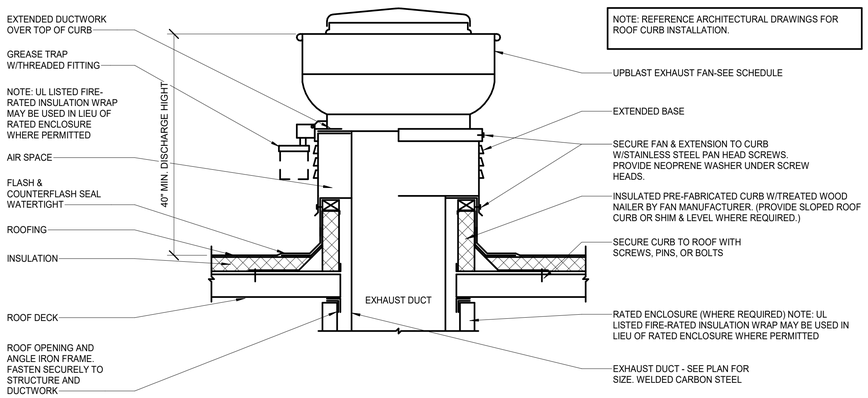
SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

DUCT SHOULD EXTEND STRAIGHT FOR 6" MINIMUM FROM A CONNECTION BEFORE BENDING.

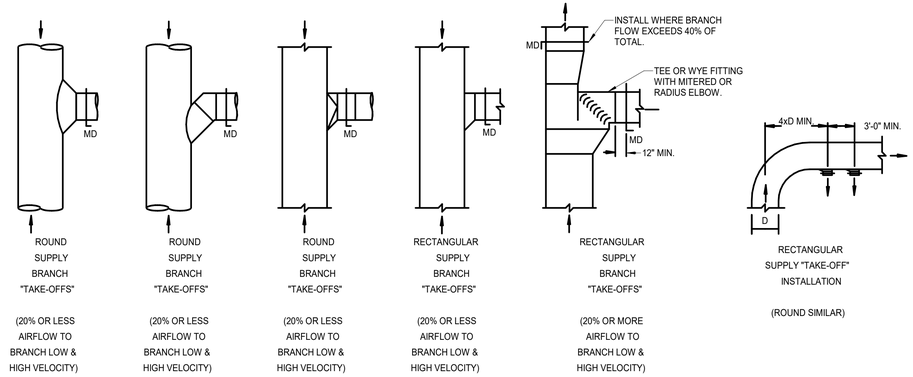
MAXIMUM FLEX DUCT LENGTH SHALL NOT EXCEED 60" (1" WG PRESSURE OR LESS) OR 36" FOR PRESSURES GREATER THAN 1" WG.



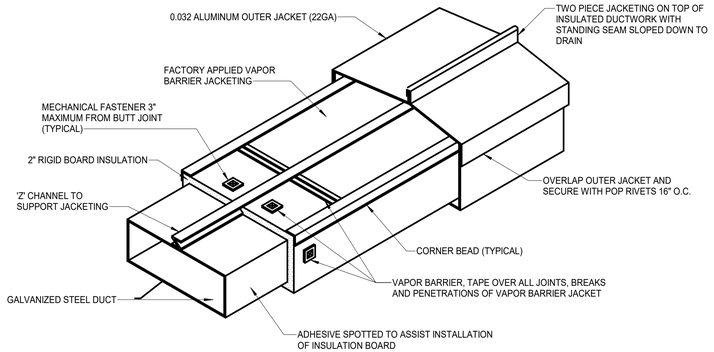
FLEXIBLE DUCT SUPPORT DETAIL
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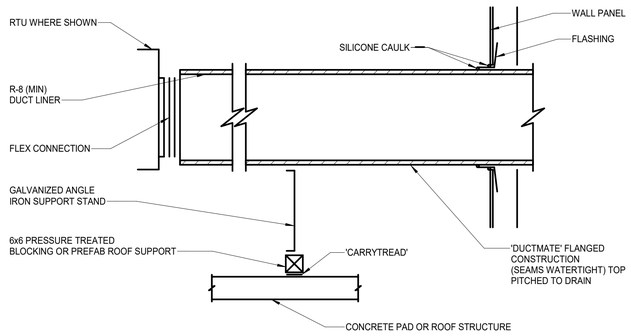
ROOF UPBLAST EXHAUST FAN DETAIL
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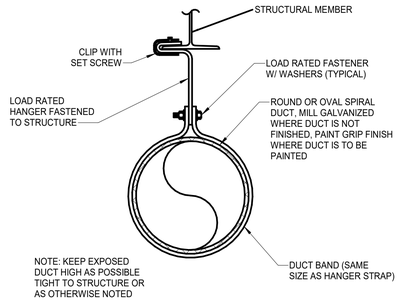
DUCT STANDARDS
NOT TO SCALE



EXTERIOR JACKETED SUPPLY DUCT
NOT TO SCALE



DUCT WALL PENETRATION DETAIL
NOT TO SCALE



SPIRAL DUCT SUPPORT DETAIL
NOT TO SCALE

STATE OF MISSOURI
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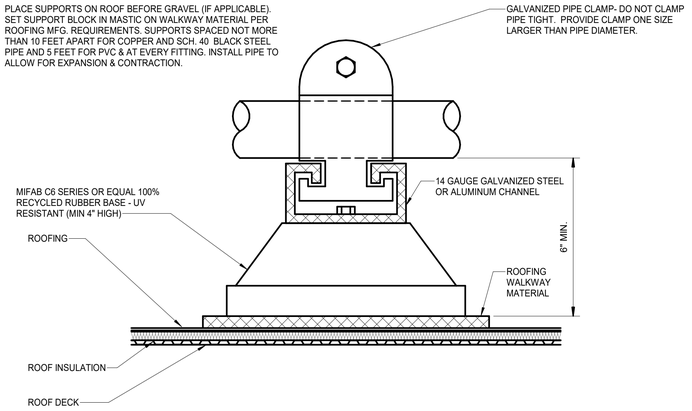
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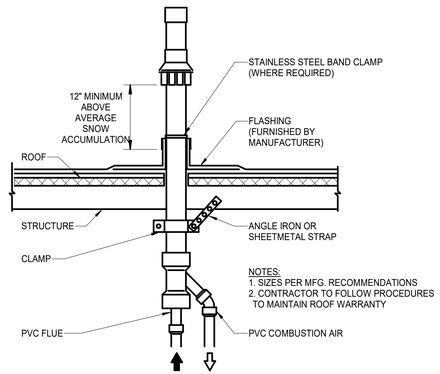
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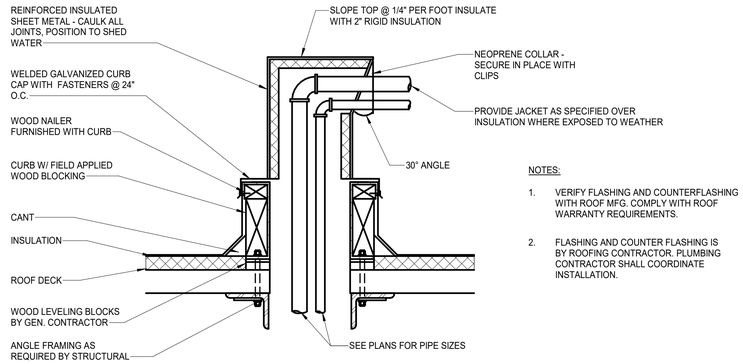
PLACE SUPPORTS ON ROOF BEFORE GRAVEL (IF APPLICABLE). SET SUPPORT BLOCK IN MASTIC ON WALKWAY MATERIAL PER ROOFING MFG. REQUIREMENTS. SUPPORTS SPACED NOT MORE THAN 10 FEET APART FOR COPPER AND SCH. 40 BLACK STEEL PIPE AND 5 FEET FOR PVC & AT EVERY FITTING. INSTALL PIPE TO ALLOW FOR EXPANSION & CONTRACTION.



PREFAB ROOF PIPE SUPPORT DETAIL
NOT TO SCALE



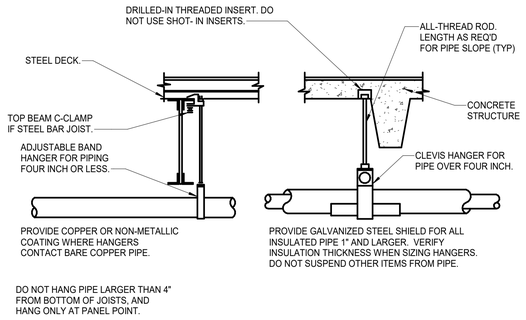
FLUE THRU ROOF DETAIL
NOT TO SCALE



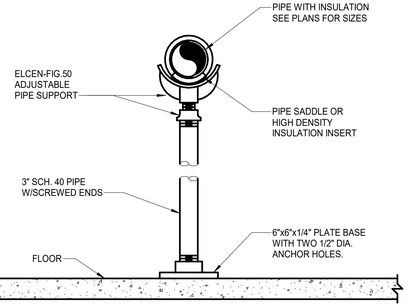
NOTES:
1. VERIFY FLASHING AND COUNTERFLASHING WITH ROOF MFG. COMPLY WITH ROOF WARRANTY REQUIREMENTS.
2. FLASHING AND COUNTER FLASHING IS BY ROOFING CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION.

MULTIPLE PIPE ROOF PENETRATIONS
NOT TO SCALE

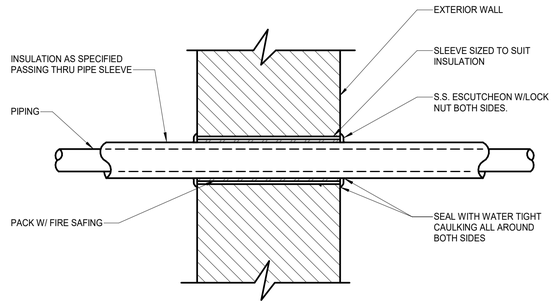
PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5' OR AS REQUIRED BY CODE. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODES AND SPECS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.



PIPE HANGER DETAIL
NOT TO SCALE

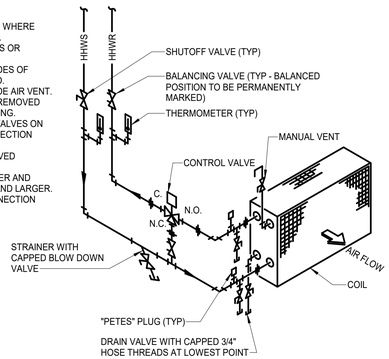


FLOOR STAND PIPE SUPPORT DETAIL
NOT TO SCALE



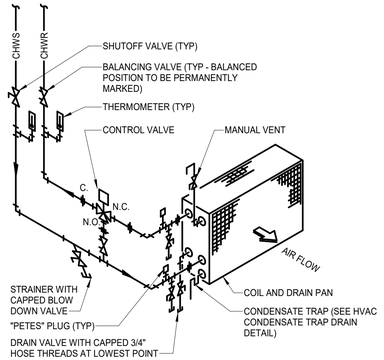
EXTERIOR WALL PIPE PENETRATION DETAIL
NOT TO SCALE

NOTES:
1. PROVIDE DIELECTRIC UNIONS OR FLANGES WHERE PIPING AND APPENDAGE MATERIALS DIFFER.
2. INSTALL CONTROL VALVE BETWEEN UNIONS OR FLANGES AS REQUIRED.
3. INSTALL CONCENTRIC REDUCERS BOTH SIDES OF CONTROL AND BALANCE VALVE IF REQUIRED.
4. WHEN TAPPED INTO TOP OF MAINS, PROVIDE AIR VENT.
5. UNION SHALL BE PLACED SO COIL CAN BE REMOVED WITHOUT RELOCATION OR REMOVAL OF PIPING.
6. FOR MULTIPLE COILS PROVIDE SHUT-OFF VALVES ON SUPPLY AND RETURN LINES TO EACH COIL SECTION INSTALL PIPING, UNIONS, AND/OR FLANGED CONNECTIONS SO THAT COIL CAN BE REMOVED WITHOUT DISTURBING PIPING.
7. INSTALL UNIONS FOR PIPING 2" AND SMALLER AND FLANGED CONNECTIONS FOR PIPING 2 1/2" AND LARGER. PROVIDE 3/4" DRAIN VALVE WITH HOSE CONNECTION FOR ALL COILS OVER 6 SF FACE AREA.

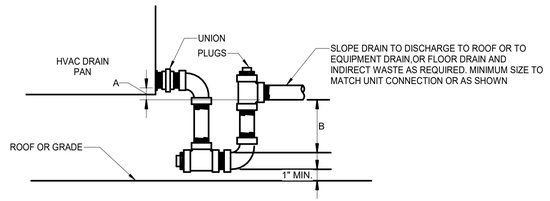


HOT WATER COIL PIPING DETAIL
NOT TO SCALE

NOTES:
1. PROVIDE DIELECTRIC UNIONS OR FLANGES WHERE PIPING AND APPENDAGE MATERIALS DIFFER.
2. INSTALL CONTROL VALVE BETWEEN UNIONS OR FLANGES AS REQUIRED.
3. INSTALL CONCENTRIC REDUCERS BOTH SIDES OF CONTROL AND BALANCE VALVE IF REQUIRED.
4. WHEN TAPPED INTO TOP OF MAINS, PROVIDE AIR VENT.
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7. INSTALL UNIONS FOR PIPING 2" AND SMALLER AND FLANGED CONNECTIONS FOR PIPING 2 1/2" AND LARGER. PROVIDE 3/4" DRAIN VALVE WITH HOSE CONNECTION FOR ALL COILS OVER 6 SF FACE AREA.



CHILLED WATER COIL PIPING DETAIL
NOT TO SCALE



	DIM. "A"	DIM. "B"
BLOW THRU COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THRU COIL	FAN SUCTION STATIC PRESSURE + 1"	2 1/2"

NOTE: MINIMUM "A" OR "B" DIMENSION SHALL BE NOT LESS THAN 1".

DRAINABLE HVAC CONDENSATE TRAP DETAIL
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MIKE KEHOE, GOVERNOR

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NUMBER PE-2009037230
PROFESSIONAL ENGINEER
09.30.2026

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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

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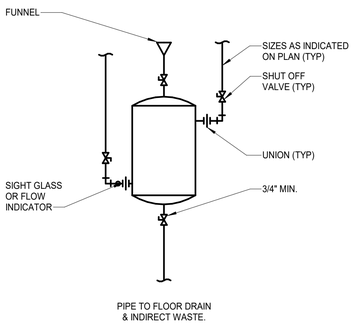
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September 30, 2026

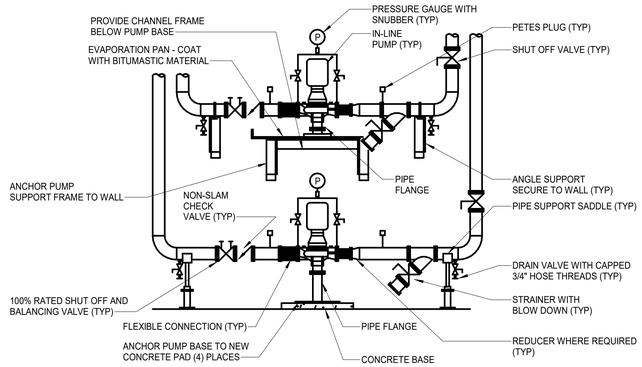
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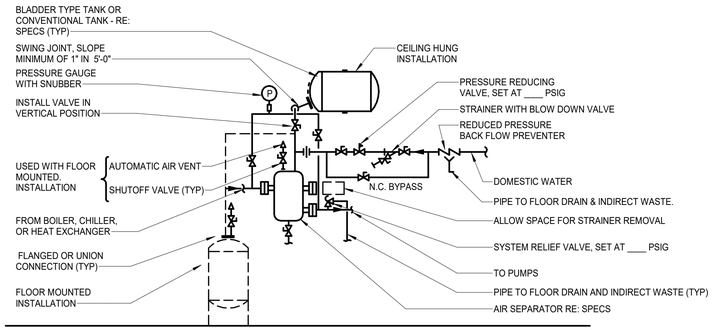
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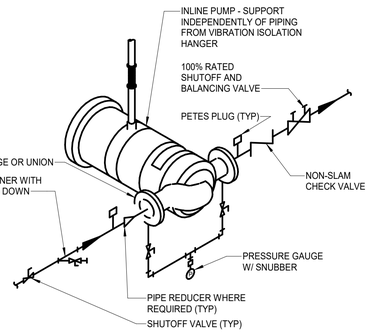
CHEMICAL POT FEEDER DETAIL
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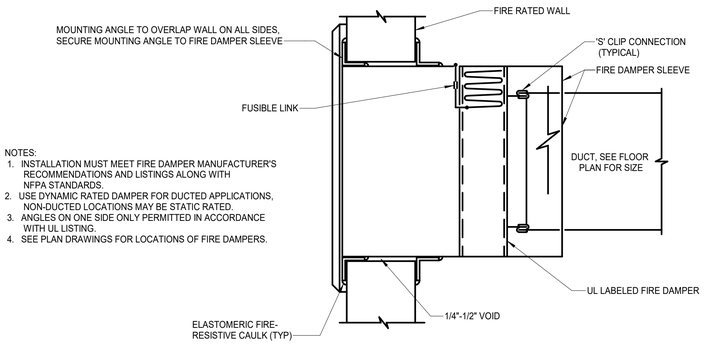
DUAL IN-LINE PUMP DETAIL
NOT TO SCALE



COMPRESSION TANK WITH AIR SEPARATOR PIPING DETAIL
NOT TO SCALE

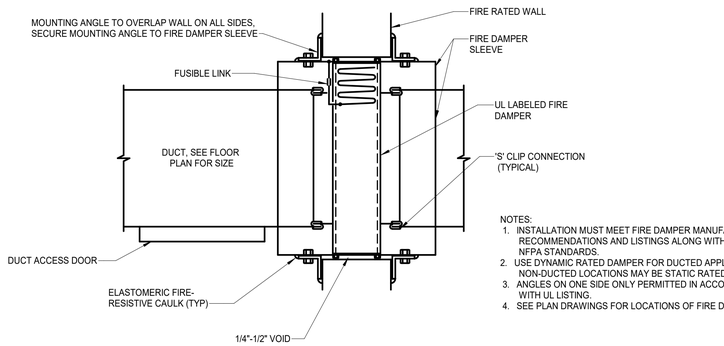


IN-LINE PUMP DETAIL
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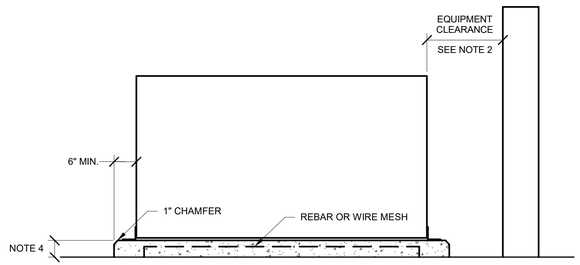
NOTES:
1. INSTALLATION MUST MEET FIRE DAMPER MANUFACTURER'S RECOMMENDATIONS AND LISTINGS ALONG WITH NFPA STANDARDS.
2. USE DYNAMIC RATED DAMPER FOR DUCTED APPLICATIONS, NON-DUCTED LOCATIONS MAY BE STATIC RATED.
3. ANGLES ON ONE SIDE ONLY PERMITTED IN ACCORDANCE WITH UL LISTING.
4. SEE PLAN DRAWINGS FOR LOCATIONS OF FIRE DAMPERS.

OUT OF WALL FIRE DAMPER DETAIL
NOT TO SCALE



NOTES:
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2. USE DYNAMIC RATED DAMPER FOR DUCTED APPLICATIONS, NON-DUCTED LOCATIONS MAY BE STATIC RATED.
3. ANGLES ON ONE SIDE ONLY PERMITTED IN ACCORDANCE WITH UL LISTING.
4. SEE PLAN DRAWINGS FOR LOCATIONS OF FIRE DAMPERS.

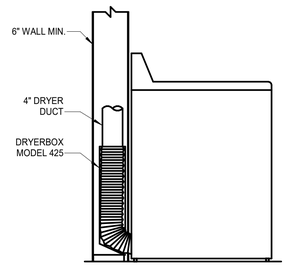
FIRE DAMPER DETAIL
NOT TO SCALE



NOTES:
1. POUR SLAB FLAT WITH NO VALLEYS.
2. MINIMUM CLEARANCE AROUND EQUIPMENT, ALL SIDES, PER MANUFACTURER.
3. DIMENSIONS SHOWN ARE MINIMUM ACCEPTABLE; REVISE AS REQUIRED FOR EQUIPMENT BEING PROVIDED.
4. COORDINATE PAD HEIGHT WITH SPECIFICATIONS. USE MINIMUM 3-1/2" HEIGHT IF NOT SPECIFIED.

INTERIOR EQUIPMENT PAD DETAIL
NOT TO SCALE

NOTES:
1. CLOTHES DRYER SHALL BE EXHAUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. COORDINATE DRYER DUCT LENGTH REQUIREMENT PRIOR TO CONSTRUCTION.
2. ANY DUCT THAT PENETRATES A WALL OR CEILING MEMBRANE SHALL MEET THE REQUIREMENTS OF IMC SECTION 504.2
3. DUCTWORK SHALL BE CONSTRUCTED USING RIVETS AND ALUMINUM TAPE. NO SCREWS ARE ALLOWED AND RIVETS ARE NOT ALLOWED TO PROTRUDE DUCTWORK BY MORE THAN 1/8 INCH.
4. DRYER DUCTS SHALL HAVE A SMOOTH INERIOR FINISH AND SHALL BE CONSTRUCTED OF METAL NOT LESS THAN 0.016 IN THICKNESS.
5. DRYER DUCT SHALL NOT BE DEFORMED AT ANY POINT INCLUDING AT THE CONNECTION TO THE DRYERBOX.
6. DRYER DUCT SHALL BE SUPOORTED AT 4 FOOT INTERVAL AND SECURED IN PLACE.
7. REFER TO DRYERBOX MANUFACTURER REQUIREMENTS WHEN INSTALLING DRYERBOX IN THE FIRE RESISTANCE WALL.
8. DRYER EXHAUST DUCT SHALL TERMINATE ON THE OUTSIDE AT DRYER APPROVED VENT THAT IS EQUIPPED WITH A BACKDRAFT DAMPER. NO SCREENS ARE ALLOWED.



DRYER BOX DETAIL
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MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
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ASSET # 9327033001

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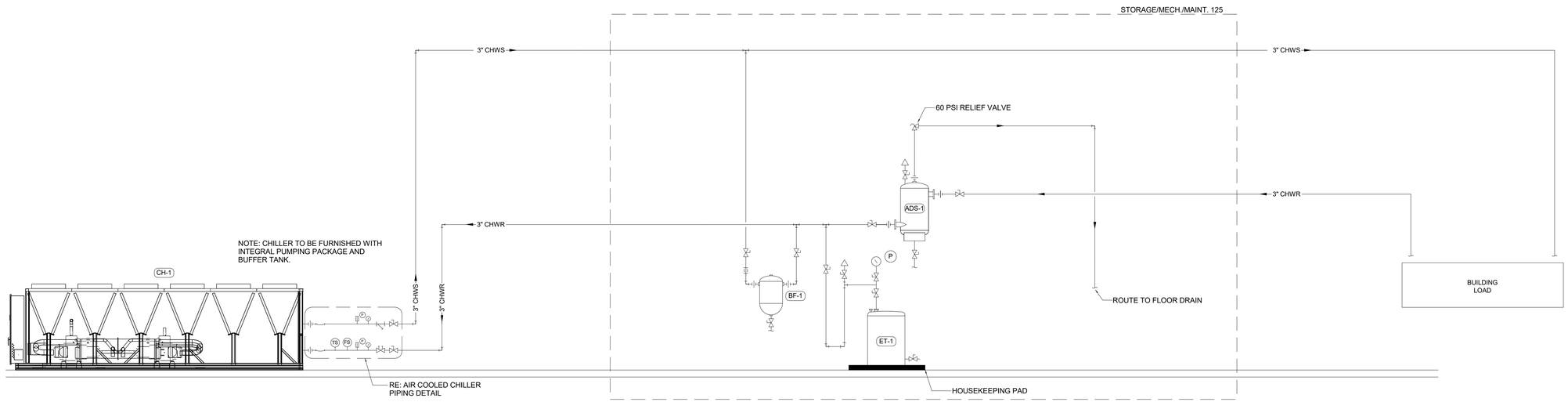
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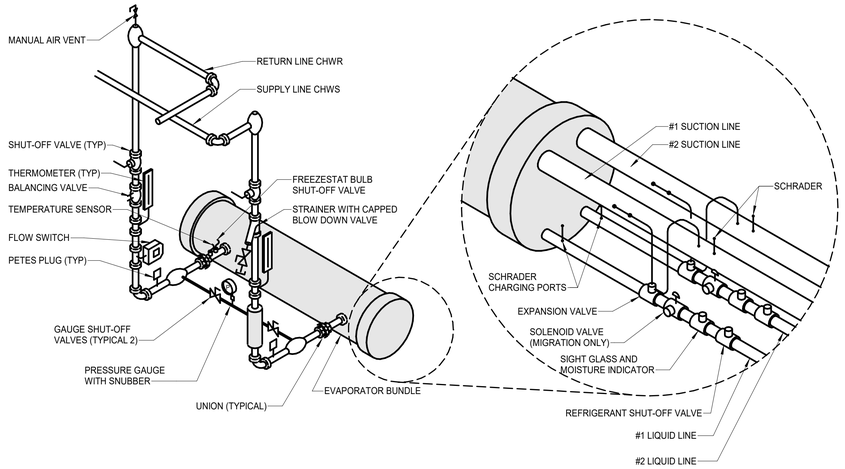
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CHILLED WATER PIPING DIAGRAM

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AIR COOLED CHILLER PIPING DETAIL

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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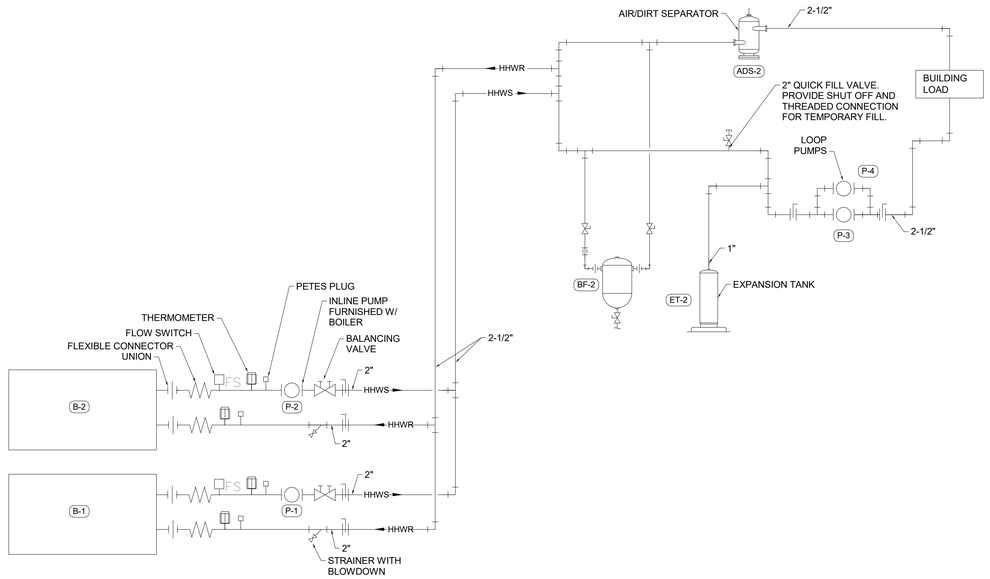
September 30, 2026

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HEATING HOT WATER PIPING SCHEMATIC

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MIKE KEHOE, GOVERNOR

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M-205

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September 30, 2026

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AIR/DIRT SEPARATOR SCHEDULE

MARK NO.	MANUFACTURER	MODEL	FLOW (GPM)	PRESS DROP (FT. H2O)	BRANCH PIPE SIZE (IN.)	NOTES
ADS-1	SPIROTHERM	VDT300FAM	127	1.5	3	1,2
ADS-2	SPIROTHERM	VDT200FAM	53	1.1	2	1,2

NOTES:
1. APPROVED ALTERNATE MANUFACTURERS: ARMSTRONG, BELL & GOSSETT, TACO.
2. PROVIDE WITH INTEGRAL STRAINER WITH MAGNET AND BLOWDOWN WITH BALL VALVE.

BYPASS FEEDER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	CAPACITY (GAL.)	CONNECTION SIZES (IN.)	NOTES
BF-1	NEPTUNE	DBF	5	3/4	-
BF-2	NEPTUNE	DBF	5	3/4	-

NOTES: 1. -

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FRAME TYPE*	FACE SIZE (IN.)	NECK SIZE (IN.)	COLOR	NOTES
SA1	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	24x24	6	NOTE 3	1,2,3,5
SA2	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	24x24	8	NOTE 3	1,2,3,5
SA3	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	24x24	10	NOTE 3	1,2,3,5
SA4	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	24x24	12	NOTE 3	1,2,3,5
SA5	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	24x24	14	NOTE 3	1,2,3,5
SA6	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	12x12	6	NOTE 3	1,2,3,5
SA7	PRICE	SPD	PLAQUE	CEILING	SURFACE MOUNT	12x12	8	NOTE 3	1,2,3,5
SB1	PRICE	MSRRCD	RISK RESISTANT	CEILING	SURFACE MOUNT	10x10	8x8	NOTE 3	1,3,8
SB2	PRICE	MSRRCD	RISK RESISTANT	CEILING	SURFACE MOUNT	14x14	12x12	NOTE 3	1,3,8
SB3	PRICE	MSRRCD	RISK RESISTANT	CEILING	SURFACE MOUNT	17x17	15x15	NOTE 3	1,3,8
SC1	PRICE	PDDR	PERFORATED	CEILING	LAY-IN	24x24	15	NOTE 3	2,3,5,9
SD1	PRICE	SDGE	LOUVERED	SPIRAL DUCT	SURFACE MOUNT	14x10	12x8	NOTE 3	1,3,4,6
SE1	PRICE	520	LOUVERED	SIDEWALL	SURFACE MOUNT	14x10	12x8	NOTE 3	1,3,4
SE2	PRICE	520	LOUVERED	SIDEWALL	SURFACE MOUNT	22x20	20x18	NOTE 3	1,3,4
RA1	PRICE	PDDR	PERFORATED	CEILING	SURFACE MOUNT	24x12	22x10	NOTE 3	1,3,7
RA2	PRICE	PDDR	PERFORATED	CEILING	SURFACE MOUNT	24x24	22x22	NOTE 3	1,3,7
RA3	PRICE	PDDR	PERFORATED	CEILING	SURFACE MOUNT	12x12	10x10	NOTE 3	1,3,7
RB1	PRICE	MSRRP	PERFORATED RISK RESISTANT	CEILING	SURFACE MOUNT	11x11	9x9	NOTE 3	1,3
RB2	PRICE	MSRRP	PERFORATED RISK RESISTANT	CEILING	SURFACE MOUNT	14x14	12x12	NOTE 3	1,3
RB3	PRICE	MSRRP	PERFORATED RISK RESISTANT	CEILING	SURFACE MOUNT	16x16	14x14	NOTE 3	1,3
RC1	PRICE	530	LOUVERED	SIDEWALL	SURFACE MOUNT	14x14	12x12	NOTE 3	1,3,4
RC2	PRICE	530	LOUVERED	SIDEWALL	SURFACE MOUNT	32x20	30x18	NOTE 3	1,3,4
EA1	PRICE	PDDR	PERFORATED	CEILING	SURFACE MOUNT	12x12	6	NOTE 3	1,2,3,5
EA2	PRICE	PDDR	PERFORATED	CEILING	SURFACE MOUNT	16x16	8	NOTE 3	1,2,3,5
EB1	PRICE	MSRRP	PERFORATED RISK RESISTANT	CEILING	SURFACE MOUNT	11x11	9x9	NOTE 3	1,3,8
EC1	PRICE	530	LOUVERED	SIDEWALL	SURFACE MOUNT	8x8	6x6	NOTE 3	1,3,4,5

NOTES:
1. PROVIDE WITH TAMPER RESISTANT SECURITY FASTENERS.
2. BRANCH DUCT SIZE SHALL BE THE SAME AS THE NECK SIZE UNLESS OTHERWISE NOTED.
3. PROVIDE WITH BAKED ENAMEL FINISH. COORDINATE WITH ARCHITECT FOR COLOR SELECTION.
4. FRONT BLADES SHALL BE PARALLEL TO THE LONG DIMENSION.
5. PROVIDE WITH OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
6. PROVIDE WITH PRICE "ASC" CABLE OPERATOR AIR SCOOP.
7. PROVIDE LINED RETURN BOOT WHERE SHOWN ON PLANS.
8. PROVIDE SQUARE TO ROUND ADAPTER.
9. PROVIDE WITH PRICE "AMF" RAPID MOUNT FRAME TO CREATE LAY-IN APPLICATION WHEN INSTALLED IN A HARD CEILING.

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

LOUVER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW (CFM)	WIDTH (IN.)	HEIGHT (IN.)	FREE AREA (FT.)	MAXIMUM S.P. DROP	COLOR	NOTES
L-1	GREENHECK	EHH-601	300	16	14	0.4	0.1	NOTE 3	1,2,3
L-2	GREENHECK	EHH-601	300	16	14	0.4	0.1	NOTE 3	1,2,3
L-3	GREENHECK	EHH-601	300	16	14	0.4	0.1	NOTE 3	1,2,3
L-4	GREENHECK	AFL-601	175	16	16	0.3	0.15	NOTE 3	1,2,3
L-5	GREENHECK	AFL-601	265	18	18	0.5	0.15	NOTE 3	1,2,3
L-6	GREENHECK	AFL-601	440	26	26	1.4	0.05	NOTE 3	1,2,3
L-7	GREENHECK	AFL-601	240	18	18	0.5	0.15	NOTE 3	1,2,3

NOTES:
1. PROVIDE WITH BIRDSCREEN.
2. COORDINATE LOUVER SIZE AND JAMB WITH ARCHITECT. CONTRACTOR TO VERIFY SIZE OF OPENINGS AND FIELD MEASURE PRIOR TO ORDERING LOUVERS.
3. COLOR AND FINISH TO BE SELECTED BY ARCHITECT.

EXPANSION TANK SCHEDULE

MARK NO.	MANUFACTURER	MODEL	MOUNTING	FLUID SERVED	TANK STYLE	ACCEPTANCE VOLUME (GAL.)	MIN. TEMP. (°F)	MAX. TEMP. (°F)	MIN. PRESSURE (°PSIG)	MAX. PRESSURE (°PSIG)	NOTES
ET-1	AMTROL	AX-20-DD	HORIZONTAL SUSPENDED	CHILLED WATER	DIAPHRAGM	11.3	40	100	12	60	1,2,3
ET-2	AMTROL	AX-40-DD	HORIZONTAL SUSPENDED	HEATING HOT WATER	DIAPHRAGM	11.3	40	180	12	60	1,2,3

NOTES:
1. APPROVED ALTERNATE MANUFACTURERS: ARMSTRONG, BELL & GOSSETT, TACO.
2. PROVIDE PRECHARGED DIAPHRAGM-TYPE ASME RATED TANK.
3. SUPPORT SUSPENDED UNITS FROM STRUCTURE WITH ALL-THREAD RODS.

GENERAL NOTES (TYPICAL ALL SHEETS)

A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.

B. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.

C. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.

D. MECHANICAL CONTRACTOR SHALL PROVIDE NEW FILTERS ON ALL AIR HANDLING EQUIPMENT PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.

E. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

F. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.

G. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

MECHANICAL SYMBOLS

- NEW DUCTWORK
- FLEX DUCT
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- RISE OR DROP IN DUCT (R/D)
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- RETURN DUCT DOWN
- RETURN DUCT UP
- EXHAUST DUCT DOWN
- EXHAUST DUCT UP
- WALL MOUNTED DIFFUSER/GRILLE
- MANUAL VOLUME DAMPER
- THERMOSTAT
- SENSOR
- ACCESS DOOR (AD)
- BALANCED BACKDRAFT DAMPER (BD)
- FIRE DAMPER (FD)
- FIRE /SMOKE DAMPER (FSD)
- MOTOR OPERATED DAMPER (MD)
- CD — CONDENSATE DRAIN
- PC — PUMPED CONDENSATE
- RL — REFRIGERANT SUPPLY (LIQUID)
- RS — REFRIGERANT RETURN (SUCTION)
- ? — EQUIPMENT TYPE AND DESIGNATION
- SA / 200 — TYPE MARK: (S_) SUPPLY, (R_) RETURN, (E_) EXHAUST DIFFUSER OR GRILLE TYPE MARK AND CFM; CFM

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
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OFFICE OF ADMINISTRATION
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DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

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MECHANICAL GEN. NOTES, SCHEDULES, & SYMBOLS

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107 OF 133

September 30, 2026

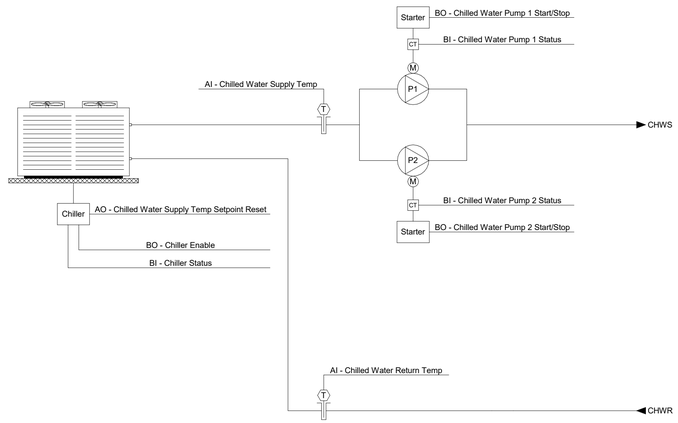
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AIR COOLED CHILLER

NOT TO SCALE

Air Cooled Chiller (typical of 1)

Chiller - Run Conditions:
The chiller shall be enabled to run whenever:
- A definable number of chilled water coils need cooling
- AND the outside air temperature is greater than 54°F (adj.).

To prevent short cycling, the chiller shall run for and be off for minimum adjustable times (both user definable), unless shutdown on safeties or outside air conditions.

The chiller shall run subject to its own internal safeties and controls.

Chilled Water Pump Lead/Standby Operation:
The two chilled water pumps shall run anytime the chiller is called to run. The chilled water pump shall also run for freeze protection whenever the outside air temperature is less than a user definable setpoint (adj.).

The lead pump shall start prior to the chiller being enabled and shall stop only after the chiller is disabled. The pump(s) shall therefore have:
- A user adjustable delay on start.
- AND a user adjustable delay on stop.

The delay times shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.

The two pumps shall operate in a lead/standby fashion.
- The lead pump shall run first.
- On failure of the lead pump, the standby pump shall run and the lead pump shall turn off.

The designated lead pump shall rotate upon one of the following conditions (user selectable):
- manually through a software switch
- if pump runtime (adj.) is exceeded
- daily
- weekly
- monthly

Alarms shall be provided as follows:
- Chilled Water Pump 1
  - Failure: Commanded on, but the status is off.
  - Running in Hand: Commanded off, but the status is on.
  - Runtime Exceeded: Status runtime exceeds a user definable limit.
- Chilled Water Pump 2
  - Failure: Commanded on, but the status is off.
  - Running in Hand: Commanded off, but the status is on.
  - Runtime Exceeded: Status runtime exceeds a user definable limit.

Chiller:
The chiller shall be enabled a user adjustable time after pump statuses are proven on. The chiller shall therefore have a user adjustable delay on start.

The delay time shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.

The chiller shall run subject to its own internal safeties and controls.

Alarms shall be provided as follows:
- Chiller Failure: Commanded on, but the status is off.
- Chiller Running in Hand: Commanded off, but the status is on.
- Chiller Runtime Exceeded: Status runtime exceeds a user definable limit.

Chilled Water Supply Temperature - Setpoint Reset:
The chilled water supply temperature setpoint shall reset using a trim and respond algorithm based on cooling requirements.

The chilled water supply temperature setpoint shall reset to a lower value as the facility's chilled water valves open beyond a user definable threshold (90% open, typ.). Once the chilled water coils are satisfied (valves closing) then the chilled water supply temperature setpoint shall gradually rise over time to reduce cooling energy use.

Chilled Water Temperature Monitoring:
The following temperatures shall be monitored:
- Chilled water supply.
- Chilled water return.

Alarms shall be provided as follows:
- High Chilled Water Supply Temp: If the chilled water supply temperature is greater than 55°F (adj.).
- Low Chilled Water Supply Temp: If the chilled water supply temperature is less than 38°F (adj.).

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Chilled Water Return Temp	x								x		x
Chilled Water Supply Temp	x								x		x
Chilled Water Supply Temp Setpoint Reset		x							x		x
Chilled Water Pump 1 Status			x						x		x
Chilled Water Pump 2 Status			x						x		x
Chiller Status			x						x		x
Chilled Water Pump 1 Start/Stop				x							x
Chilled Water Pump 2 Start/Stop				x							x
Chiller Enable				x							x
Outside Air Temp					x						x
Chilled Water Pump 1 Failure										x	
Chilled Water Pump 1 Running in Hand										x	
Chilled Water Pump 1 Runtime Exceeded										x	
Chilled Water Pump 2 Failure										x	
Chilled Water Pump 2 Running in Hand										x	
Chilled Water Pump 2 Runtime Exceeded										x	
Chiller Failure										x	
Chiller Running in Hand										x	
Chiller Runtime Exceeded										x	
High Chilled Water Supply Temp										x	
Low Chilled Water Supply Temp										x	
Totals	**2**	**1**	**3**	**3**	**1**	**0**	**0**	**0**	**6**	**11**	**10**
Total Hardware (9)					**Total Software (18)**						

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
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PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

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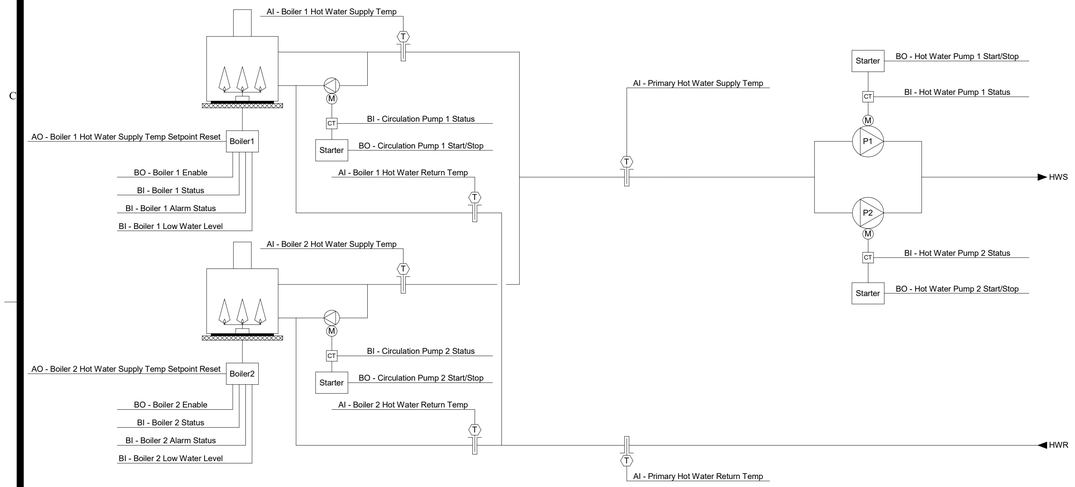
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BOILER SYSTEM

NOT TO SCALE

1. Boiler System (typical of 1)

Boiler System Run Conditions:
The boiler system shall be enabled to run whenever:
- A definable number of hot water coils need heating.
- AND outside air temperature is less than 65°F (adj.).

To prevent short cycling, the boiler system shall run for and be off for minimum adjustable times (both user definable), unless shutdown on safeties or outside air conditions.

The boiler shall run subject to its own internal safeties and controls.

The boiler system shall also run for freeze protection whenever the outside air temperature is less than 38°F (adj.).

Boiler 1 Safeties:
The following safeties shall be monitored:
- Boiler alarm.
- Low water level.

Alarms shall be provided as follows:
- Boiler alarm.
- Low water level alarm.

Boiler 2 Safeties:
The following safeties shall be monitored:
- Boiler alarm.
- Low water level.

Alarms shall be provided as follows:
- Boiler alarm.
- Low water level alarm.

Hot Water Pump Lead/Standby Operation:
The two hot water pumps shall operate in a lead/standby fashion.
- The lead pump shall run first.
- On failure of the lead pump, the standby pump shall run and the lead pump shall turn off.

The designated lead pump shall rotate upon one of the following conditions (user selectable):
- manually through a software switch
- if pump runtime (adj.) is exceeded
- daily
- weekly
- monthly

Alarms shall be provided as follows:
- Hot Water Pump 1
  - Failure: Commanded on, but the status is off.
  - Running in Hand: Commanded off, but the status is on.
  - Runtime Exceeded: Status runtime exceeds a user definable limit.
- Hot Water Pump 2
  - Failure: Commanded on, but the status is off.
  - Running in Hand: Commanded off, but the status is on.
  - Runtime Exceeded: Status runtime exceeds a user definable limit.

Circulation Pump 1:
The Circulation Pump 1 shall run anytime Boiler 1 is called to run and shall have a user definable delay (adj.) on stop.

Alarms shall be provided as follows:
- Circulation Pump 1 Failure: Commanded on, but the status is off.
- Circulation Pump 1 Running in Hand: Commanded off, but the status is on.
- Circulation Pump 1 Runtime Exceeded: Status runtime exceeds a user-definable limit.

Circulation Pump 2:
The Circulation Pump 2 shall run anytime Boiler 2 is called to run and shall have a user definable delay (adj.) on stop.

Alarms shall be provided as follows:
- Circulation Pump 2 Failure: Commanded on, but the status is off.
- Circulation Pump 2 Running in Hand: Commanded off, but the status is on.
- Circulation Pump 2 Runtime Exceeded: Status runtime exceeds a user-definable limit.

Boiler Lead/Lag Operation:
The two boilers shall operate in a lead/lag fashion.
- The lead boiler shall run first.
- On failure of the lead boiler, the lag boiler shall run and the lead boiler shall turn off.
- As hot water temperature drops below a setpoint of 150 F (adj.), the lag boiler shall stage on and run in unison with the lead boiler to maintain hot water temperature setpoint.
- As hot water temperature rises back to 20°F above setpoint, the lag boiler shall stage off.

The designated lead boiler shall rotate upon one of the following conditions: (user selectable):
- manually through a software switch
- if boiler runtime (adj.) is exceeded
- daily
- weekly
- monthly

Alarms shall be provided as follows:
- Boiler 1
  - Failure: Commanded on, but the status is off.
  - Running in Hand: Commanded off, but the status is on.
  - Runtime Exceeded: Status runtime exceeds a user definable limit.
- Boiler 2
  - Failure: Commanded on, but the status is off.
  - Running in Hand: Commanded off, but the status is on.
  - Runtime Exceeded: Status runtime exceeds a user definable limit.
- Lead Boiler Failure: The lead boiler is in failure and the standby boiler is on.

Hot Water Supply Temperature Setpoint Reset:
The hot water supply temperature setpoint shall reset using a trim and respond algorithm based on heating requirements.

As the facility's hot water valves open beyond a user definable threshold (90% open, typ.), the setpoint shall reset to a higher value (adj.). Once the hot water coils are satisfied (valves closing) then the setpoint shall gradually lower over time to reduce heating energy user.

Primary Hot Water Temperature Monitoring:
The following temperatures shall be monitored:
- Primary hot water supply.
- Primary hot water return.

Alarms shall be provided as follows:
- High Primary Hot Water Supply Temp: If greater than 200°F (adj.).
- Low Primary Hot Water Supply Temp: If less than 100°F (adj.).

Boiler 1 Hot Water Temperature Monitoring:
The following temperatures shall be monitored:
- Boiler 1 hot water supply.
- Boiler 1 hot water return.

Alarms shall be provided as follows:
- High Hot Water Supply Temp: If greater than 200°F (adj.).
- Low Hot Water Supply Temp: If less than 100°F (adj.).

Boiler 2 Hot Water Temperature Monitoring:
The following temperatures shall be monitored:
- Boiler 2 hot water supply.
- Boiler 2 hot water return.

Alarms shall be provided as follows:
- High Hot Water Supply Temp: If greater than 200°F (adj.).
- Low Hot Water Supply Temp: If less than 100°F (adj.).

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Boiler 1 Hot Water Return Temp	x								x		x
Boiler 1 Hot Water Supply Temp	x								x		x
Boiler 2 Hot Water Return Temp	x								x		x
Boiler 2 Hot Water Supply Temp	x								x		x
Primary Hot Water Return Temp	x								x		x
Primary Hot Water Supply Temp	x								x		x
Boiler 1 Hot Water Supply Temp Setpoint Reset		x							x		x
Boiler 2 Hot Water Supply Temp Setpoint Reset		x							x		x
Boiler 1 Alarm Status			x						x	x	x
Boiler 1 Low Water Level			x						x	x	x
Boiler 1 Status			x						x		x
Boiler 2 Alarm Status			x						x	x	x
Boiler 2 Low Water Level			x						x	x	x
Boiler 2 Status			x						x		
Circulation Pump 1 Status			x						x		x
Circulation Pump 2 Status			x						x		x
Hot Water Pump 1 Status			x						x		x
Hot Water Pump 2 Status			x						x		x
Boiler 1 Enable				x							x
Boiler 2 Enable				x							x
Circulation Pump 1 Start/Stop				x					x		x
Circulation Pump 2 Start/Stop				x					x		x
Hot Water Pump 1 Start/Stop				x							x
Hot Water Pump 2 Start/Stop				x							x
Outside Air Temp					x						x
Boiler 1 Failure										x	
Boiler 1 High Hot Water Supply Temp										x	
Boiler 1 Low Hot Water Supply Temp										x	
Boiler 1 Running in Hand										x	
Boiler 1 Runtime Exceeded										x	
Boiler 2 Failure										x	
Boiler 2 High Hot Water Supply Temp										x	
Boiler 2 Low Hot Water Supply Temp										x	
Boiler 2 Running in Hand										x	
Boiler 2 Runtime Exceeded										x	
Circulation Pump 1 Failure										x	
Circulation Pump 1 Running in Hand										x	
Circulation Pump 1 Runtime Exceeded										x	
Circulation Pump 2 Failure										x	
Circulation Pump 2 Running in Hand										x	
Circulation Pump 2 Runtime Exceeded										x	
High Primary Hot Water Supply Temp										x	
Hot Water Pump 1 Failure										x	
Hot Water Pump 1 Running in Hand										x	
Hot Water Pump 1 Runtime Exceeded										x	
Hot Water Pump 2 Failure										x	
Hot Water Pump 2 Running in Hand										x	
Hot Water Pump 2 Runtime Exceeded										x	
Lead Boiler Failure										x	x
Low Primary Hot Water Supply Temp										x	
Totals	**6**	**2**	**10**	**6**	**1**	**0**	**0**	**0**	**20**	**29**	**25**

Total Hardware (24) **Total Software (50)**

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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09.30.2026

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: EDG
CHECKED BY: GJF
DESIGNED BY: EDG

SHEET TITLE:
MECHANICAL CONTROLS

SHEET NUMBER:
M-402

109 OF 133

September 30, 2026

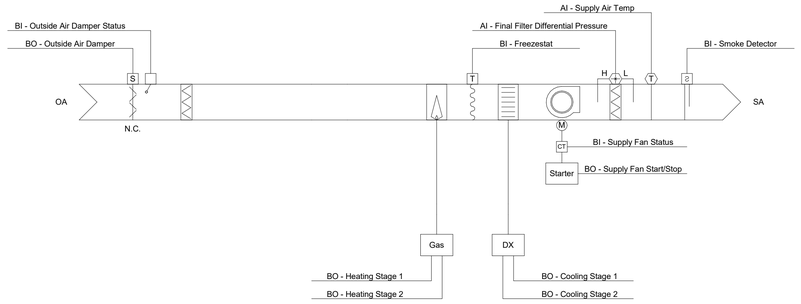
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DEDICATED OUTSIDE AIR UNIT

NOT TO SCALE

1. Dedicated Outside Air Unit (typical of 1)

Run Conditions - Continuous:
The unit shall run continuously.

Freeze Protection:
The unit shall shut down and generate an alarm upon receiving a freezestat status.

Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a smoke detector status.

Outside Air Damper:
The outside air damper shall open anytime the unit runs and shall close anytime the unit stops. The supply fan shall start only after the damper status has proven the damper is open. The outside air damper shall close 4sec (adj.) after the supply fan stops.

Alarms shall be provided as follows:
- Outside Air Damper Failure: Commanded open, but the status is closed.
- Outside Air Damper in Hand: Commanded closed, but the status is open.

Supply Fan:
The supply fan shall run anytime the unit is commanded to run. To prevent short cycling, the supply fan shall have a user definable (adj.) minimum runtime, unless shutdown on safeties.

Alarms shall be provided as follows:
- Supply Fan Failure: Commanded on, but the status is off.
- Supply Fan in Hand: Commanded off, but the status is on.
- Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

Supply Air Temperature Setpoint - Fixed:
The controller shall monitor the supply air temperature and shall maintain a fixed supply air temperature setpoint of 55° F (adj.).

Cooling Stages:
The controller shall measure the supply air temperature and stage the cooling to maintain its cooling setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The cooling shall be enabled whenever:
- Outside air temperature is greater than 60°F (adj.).
- AND the supply air temperature is above cooling setpoint.
- AND the fan status is on.

Gas Heating Stages:
The controller shall measure the supply air temperature and stage the heating to maintain its heating setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The heating shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the supply air temperature is below heating setpoint.
- AND the fan status is on.

Final Filter Differential Pressure Monitor:
The controller shall monitor the differential pressure across the final filter.

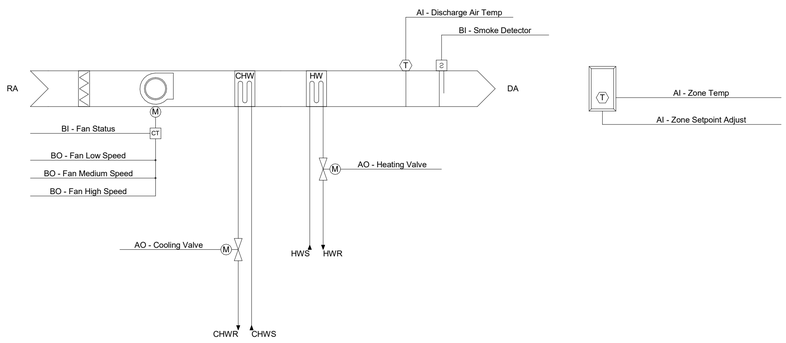
Alarms shall be provided as follows:
- Final Filter Change Required: Final filter differential pressure exceeds a user definable limit (adj.).

Supply Air Temperature:
The controller shall monitor the supply air temperature.

Alarms shall be provided as follows:
High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).

Point Name	Hardware Points AI	AO	BI	BO	Software Points AV	BV	Loop	Sched	Trend	Alarm	Show On Graphic
Final Filter Differential Pressure	x								x		
Supply Air Temp	x								x		x
Freezestat			x						x	x	x
Outside Air Damper Status			x						x		x
Smoke Detector			x						x	x	x
Supply Fan Status			x						x		x
Cooling Stage 1				x					x		x
Cooling Stage 2				x					x		x
Heating Stage 1				x					x		x
Heating Stage 2				x					x		x
Outside Air Damper				x					x		x
Supply Fan Start/Stop				x					x		x
Supply Air Temp Setpoint					x				x		x
Compressor Runtime Exceeded										x	
Final Filter Change Required										x	x
High Supply Air Temp										x	
Low Supply Air Temp										x	
Outside Air Damper Failure										x	
Outside Air Damper in Hand										x	
Supply Fan Failure										x	
Supply Fan in Hand										x	
Supply Fan Runtime Exceeded										x	
Totals	**2**	**0**	**4**	**6**	**1**	**0**	**0**	**0**	**13**	**11**	**13**

Total Hardware (12) **Total Software (25)**



FAN COIL UNIT

NOT TO SCALE

1. Fan Coil Unit (typical of 23)

Run Conditions - Continuous:
The unit shall run continuously and shall maintain:
- A 75°F (adj.) cooling setpoint.
- A 70°F (adj.) heating setpoint.

Alarms shall be provided as follows:
- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a smoke detector status.

Fan:
The fan shall run anytime the unit is commanded to run, unless shutdown on safeties. The fan speeds shall automatically be indexed as follows:
- Low speed shall run anytime the zone temperature is within setpoints.
- Medium speed shall run anytime the zone temperature is outside of setpoints.
- High speed shall run anytime the zone temperature is outside of setpoints by a definable amount (adj.).

Cooling Coil Valve:
The controller shall measure the zone temperature and modulate the cooling coil valve to maintain its cooling setpoint.

The cooling shall be enabled whenever:
- Outside air temperature is greater than 60°F (adj.).
- AND the zone temperature is above cooling setpoint.
- AND the fan is on.

The cooling coil valve shall open whenever the freezestat (if present) is on.

Heating Coil Valve:
The controller shall measure the zone temperature and modulate the heating coil valve to maintain its heating setpoint.

The heating shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below heating setpoint.
- AND the fan is on.

The heating coil valve shall open whenever the freezestat (if present) is on.

Filter Hours:
The controller shall monitor the fan runtime.

Alarms shall be provided as follows:
- Filter Change Required: Filter has been in use for more than 2200 hrs (adj.).

Discharge Air Temperature:
The controller shall monitor the discharge air temperature.

Alarms shall be provided as follows:
- High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.).
- Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).

Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows:
- Fan Failure: Commanded on, but the status is off.
- Fan in Hand: Commanded off, but the status is on.
- Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

Point Name	Hardware Points AI	AO	BI	BO	Software Points AV	BV	Loop	Sched	Trend	Alarm	Show On Graphic
Discharge Air Temp	x								x		x
Zone Setpoint Adjust	x										x
Zone Temp	x								x		x
Cooling Valve		x							x		x
Heating Valve		x							x		x
Fan Status			x								x
Smoke Detector			x						x	x	x
Fan High Speed				x					x		x
Fan Low Speed				x					x		x
Fan Medium Speed				x					x		x
Cooling Setpoint					x				x		x
Heating Setpoint					x				x		x
Fan Failure										x	
Fan in Hand										x	
Fan Runtime Exceeded										x	
Filter Change Required										x	
High Discharge Air Temp										x	
High Zone Temp										x	
Low Discharge Air Temp										x	
Low Zone Temp										x	
Totals	**3**	**2**	**2**	**3**	**2**	**0**	**0**	**0**	**10**	**9**	**12**

Total Hardware (10) **Total Software (21)**

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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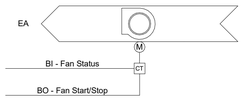
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EXHAUST FAN
NOT TO SCALE

Exhaust Fan - On/Off (typical of 4)

Run Conditions - Continuous:
The fan shall run continuously.

Fan:
The fan shall have a user definable (adj.) minimum runtime.

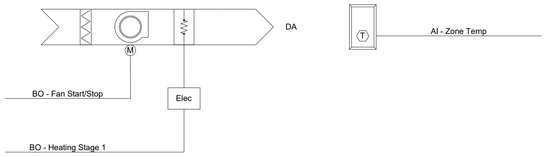
Fan Status:
The controller shall monitor the fan status.

Alarms shall be provided as follows:
- Fan Failure: Commanded on, but the status is off.
- Fan in Hand: Commanded off, but the status is on.

Fan Runtime Exceeded: Fan status runtime exceeds a user definable limit (adj.).

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Fan Status			x						x		x
Fan Start/Stop				x					x		x
Fan Failure										x	
Fan in Hand										x	
Fan Runtime Exceeded										x	
Totals	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**2**	**3**	**2**

Total Hardware (2) **Total Software (5)**



CABINET HEATER
NOT TO SCALE

Cabinet Heater (typical of 4)

Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes:
- Occupied Mode: The unit shall maintain a heating setpoint of 70°F (adj.).
- Unoccupied Mode (night setback): The unit shall maintain a heating setpoint of 65°F (adj.).

Alarms shall be provided as follows:
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Fan:
The fan shall run anytime the zone temperature is below heating setpoint, unless shutdown on safeties.

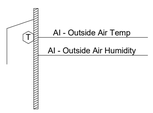
Electric Heating Stage:
The controller shall measure the zone temperature and stage the heating to maintain its heating setpoint. To prevent short cycling, the stage shall have a user definable (adj.) minimum runtime.

The heating shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below heating setpoint.

AND the fan is on.

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Zone Temp	x								x		x
Fan Start/Stop				x					x		x
Heating Stage 1				x					x		x
Heating Setpoint					x				x		x
Schedule								x			
Low Zone Temp										x	
Totals	**1**	**0**	**0**	**2**	**1**	**0**	**0**	**1**	**4**	**1**	**4**

Total Hardware (3) **Total Software (7)**



OUTSIDE AIR CONDITIONS
NOT TO SCALE

Outside Air Conditions (typical of 1)

Outside Air Conditions:
The controller shall monitor the outside air temperature and humidity and calculate the outside air enthalpy on a continual basis. These values shall be made available to the system at all times.

Alarm shall be generated as follows:
- Sensor Failure: Sensor reading indicates shorted or disconnected sensor. In the event of a sensor failure, an alternate outside air conditions sensor shall be made available to the system without interruption in sensor readings.

If an OA Temp Sensor cannot be read, a default value of 65°F will be used.

If an OA Humidity Sensor cannot be read, a default value of 50 % will be used.

Outside Air Temperature History:
The controller shall monitor and record the high and low temperature readings for the outside air. These readings shall be recorded on a daily, month-to-date, and year-to-date basis.

	Hardware Points				Software Points						
Point Name	**AI**	**AO**	**BI**	**BO**	**AV**	**BV**	**Loop**	**Sched**	**Trend**	**Alarm**	**Show On Graphic**
Outside Air Humidity	x								x		x
Outside Air Temp	x								x		x
Outside Air Enthalpy					x				x		x
High Temp Month-to-Date									x		x
High Temp Today									x		x
High Temp Year-to-Date									x		x
Low Temp Month-to-Date									x		x
Low Temp Today									x		x
Low Temp Year-to-Date									x		x
Sensor Failure										x	
Totals	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**9**	**1**	**9**

Total Hardware (2) **Total Software (11)**

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HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-1	XXEW-97-S	97	54	24	300 SS 100%	HEAVY	1819			14	1819	0.619	1455		345	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-1	ROUND LED	2	64.82	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	6	16	20					
						0	20		WALL	AMEREX KP	3.75	XKC	

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-1	FRONT	ASP	99	14	4	NO	YES	NO		1455	0.01	MUA	FACTORY	3	12	22		485	265

HOOD OPTIONS

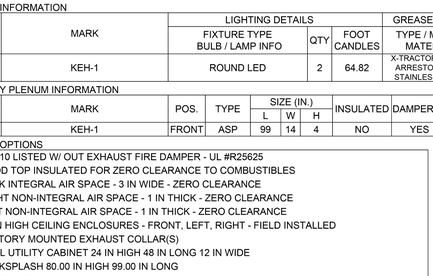
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- HOOD TOP INSULATED FOR ZERO CLEARANCE TO COMBUSTIBLES
- BACK INTEGRAL AIR SPACE - 3 IN WIDE - ZERO CLEARANCE
- RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
- LEFT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
- 30 IN HIGH CEILING ENCLOSURES - FRONT, LEFT, RIGHT - FIELD INSTALLED
- FACTORY MOUNTED EXHAUST COLLAR(S)
- WALL UTILITY CABINET 24 IN HIGH 48 IN LONG 12 IN WIDE
- BACKSPLASH 80.00 IN HIGH 99.00 IN LONG
- RIGHT SIDESPLASH 122.00 IN HIGH 18.00 IN LONG
- LEFT SIDESPLASH 122.00 IN HIGH 18.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

FIRE SYSTEM INFORMATION

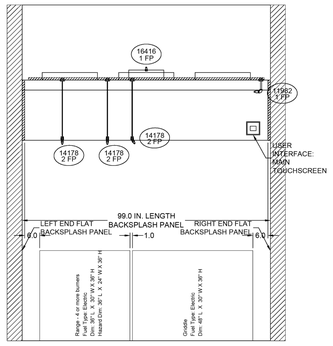
MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
KFS-1	AMEREX KP WET CHEMICAL	WALL CABINET – ON KEH-1	8 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK	KEH-1 SECTION 1

FIRE SYSTEM OPTIONS AND ACCESSORIES

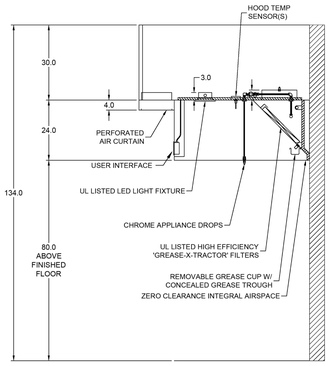
- FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
- CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
- METAL BLOW-OFF CAPS - INCLUDED
- GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2.00" (AMEREX) - PART# 468830
- HOOD SUPPRESSION TANK - INCLUDED - 3.75 GAL. - [(1) 3.75 TANK(S)]
- REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS



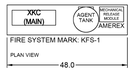
MARK: KEH-1 - SECTION 1
PLAN VIEW

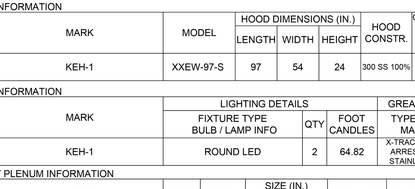


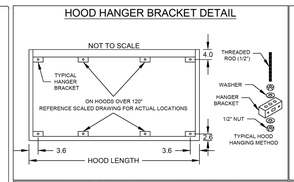
MARK: KEH-1 - SECTION 1
ELEVATION VIEW

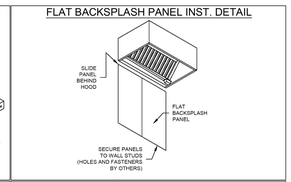


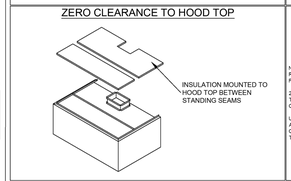
MARK: KEH-1
SECTION VIEW

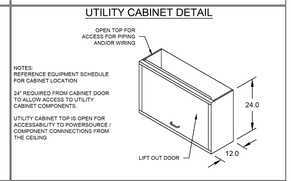


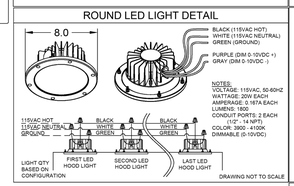


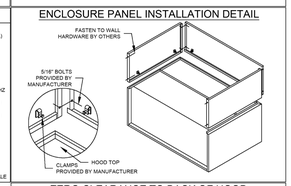


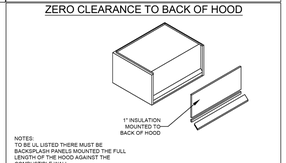


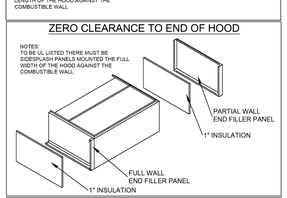


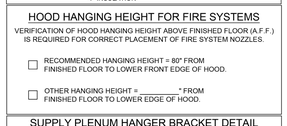


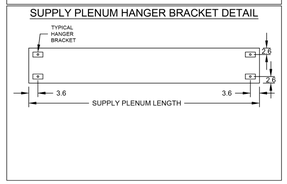












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JOPLIN COMMUNITY SUPERVISION CENTER

KEH-1

PROJECT 9/8/2026

MARK

STATE OF MISSOURI MIKE KEHOE, GOVERNOR

STATE OF MISSOURI GREGORY J. FENDLER NUMBER PE-2006037230 PROFESSIONAL ENGINEER
09.30.2026

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: EDG
CHECKED BY: GJF
DESIGNED BY: EDG

SHEET TITLE:
KITCHEN HOOD DRAWINGS

SHEET NUMBER:
M-501

112 OF 133

September 30, 2026

Lankford Fendler + associates
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Kansas City, Missouri 64108 Fax: 816.221.1429

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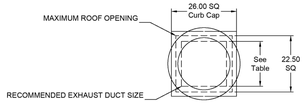
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Direct Drive Upblast Centrifugal Roof Exhaust Fan

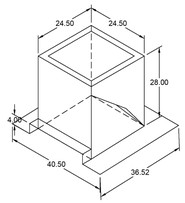
MARK INFORMATION			FAN INFORMATION								SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (in. wg)	TOTAL EXTERNAL SP (in. wg)	FAN SPEED (RPM)	OUTLET VELOCITY (ft/min)	FEI	TOTAL WEIGHT (lb)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (hp)	MOTOR SIZE (hp)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF-1	1	XCUE-140-A	Direct	1,819	1.119	1.429	1,725	1,195	1.31	111	68.64	13.79	0	0	0	0.91	1 1/2	0.8	OP	460	60	3	No	3

*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

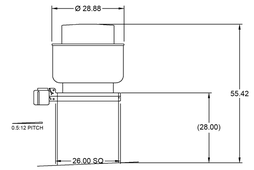
KEF-1 : SELECTED OPTIONS AND ACCESSORIES
Motor VFD Rated without Shaft Grounding Protection
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 26 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Fastener Material: Stainless
Grease Trap (PN 475538)
Aluminum Wheel Material

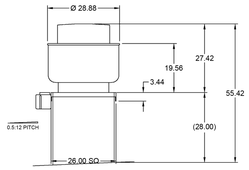


DUCT TYPE	SIZE
STANDARD	18 SQ
FIRE-WRAPPED	12 SQ



0.5:12 PITCH





DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

JOPLIN COMMUNITY SUPERVISION CENTER

KEF-1

PROJECT 9/8/2026

MARK

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ACCUREX

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L|F+a Project No. 26.0027.00

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
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DEPARTMENT OF Corrections

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2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: EDG
CHECKED BY: GJF
DESIGNED BY: EDG

SHEET TITLE:
KITCHEN HOOD DRAWINGS

SHEET NUMBER:
M-502

113 OF 133

September 30, 2026

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EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit — Mark: MUA-1

Qty	Accurex Model	Volume	External SP	Total SP	MCA	MOP	Weight	SCCR
1	XMSX-P109-H12-MF	1,455 CFM	0.5 in. wg	0.902	2.8	15	1,062 lb	NA

Motor Information

Size	V/C/P	Enclosure	Motor with Shaft Grounding	Motor RPM	Operating Power
1 hp	460/60/3	OP	No	3600	0.43 hp

Heating

Heating Type	Entering Air Temp.	Leaving Air Temp	Fluid Type	Face Velocity	Entering Fluid Temp	Leaving Fluid Temp
HotWater	3 F	86.8 F	Propylene	333 ft/min	140 F	130 F

HW Coil Model	Total Energy	Fins Per Inch	Rows Deep	Fluid Flow Rate
HW58S02H12-30x21-RH	132.6 MBH	12	2	NA

Cooling

Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Entering Air (F)		Leaving Air (F)	
							Dry	Wet	Dry	Wet
Chilled Water	CW58S02H12-27x22-RH	2	12	NA	26.9 MBH	26.9 MBH	97 F	80 F	80.3 F	75.4 F

Fluid Type	Cooling Capacity (MBH)	Entering Fluid	Leaving Fluid	Percent Glycol	Fluid Flow	Fluid Pressure Drop	Connection Size
Propylene	26.9	45 F	55 F	30	5.7 GPM	0.174 in. wg	1.5

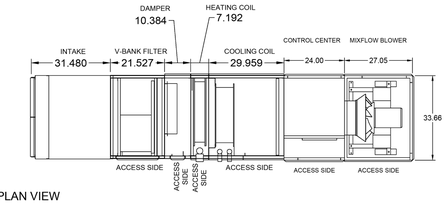
Outlet Sound Power By Octave Band

62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
68.3	*73.2*	*69.0*	*75.1*	*74.1*	*69.0*	*71.9*	*66.3*	*80.1*	*69.1*	*16.1*

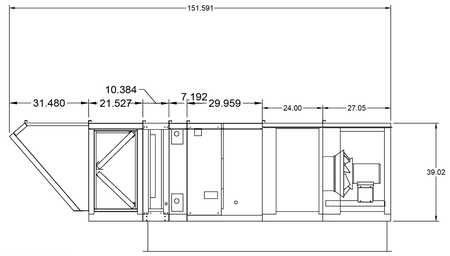
• LwA - A weighted sound power level based on ANSI S1.4
• dBA - A weighted sound pressure level base on 11.6B attenuation per octaive band at 5.0 ft
• Sones Criteria (NC) based on an average attenuation of 11.6B per octaive band at 5.0 ft

OPTIONS AND ACCESSORIES

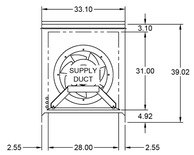
Make Up Air
Air Flow Arrangement: Variable Volume
Weatherhood: Aluminum Mesh, 16x20x2 - (4)
Filter Section: MERV8, 16x20x2 - (4)
Damper: Inlet
Outdoor Air Intake Position: End
Return Air Intake Position: None
Discharge Position: End
Coating: Galvanized
Cooling Coil Coating - None
Heating Coil Coating - None
Insulation: Double Wall - Entire Unit
Supply Fan Control: VFD
VFD Control: 0-10VDC By Others
Inlet Damper Module
1 Set(s) of Spare Filters (ships loose)
Hinged Access
Access Side: Right-Hand
Unit Weight: 1,062 lb
Control Center
Freeze Protection



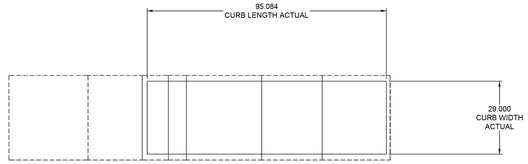
PLAN VIEW



ELEVATION VIEW



END VIEW



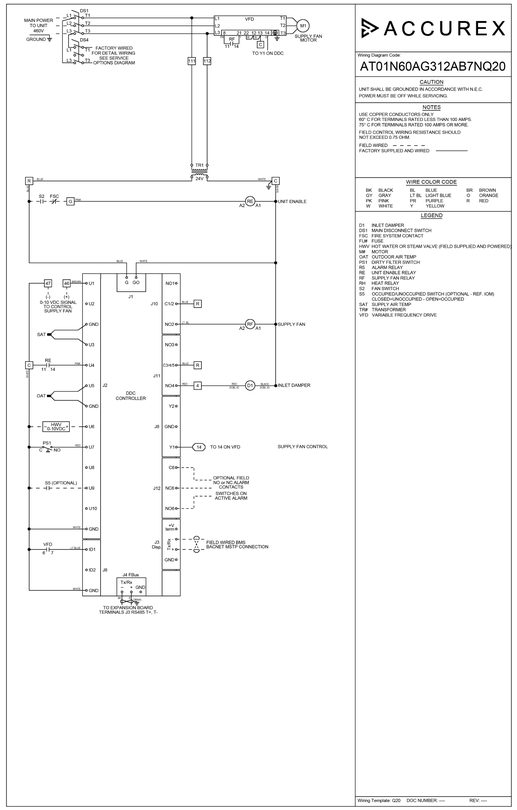
FOOTPRINT

NOTE: Roof Opening Requirements:

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues.



ACCUREX

Wiring Diagram Code:

AT01N60AG312AB7NQ20

CAUTION

UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
POWER MUST BE OFF WHILE SERVICING.

NOTES

USE COPPER CONDUCTORS ONLY
60° C FOR TERMINALS RATED LESS THAN 100 AMPS
75° C FOR TERMINALS RATED 100 AMPS OR MORE.

FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM.

FIELD WIRED
FACTORY SUPPLIED AND WIRED

WIRE COLOR CODE

BK	BLACK	BL	BLUE	BR	BROWN
GY	GRAY	LT BL	LIGHT BLUE	O	ORANGE
PK	PINK	PR	PURPLE	R	RED
W	WHITE	Y	YELLOW		

LEGEND

D1 INLET DAMPER
DS1 MAIN DISCONNECT SWITCH
FSC FIRE SYSTEM CONTACT
M1 MOTOR
HWV HOT WATER OR STEAM VALVE (FIELD SUPPLIED AND POWERED)
MM MOTOR
OAT OUTDOOR AIR TEMP
QS4 DAMPER OPEN SWITCH
RG ALARM RELAY
RE UNIT ENABLE RELAY
RF SUPPLY FAN RELAY
SAT SUPPLY AIR TEMP
SU FAN SWITCH
SS OCCUPIED/UNOCCUPIED SWITCH (OPTIONAL - REF. IOM)
CLOSED=UNOCCUPIED - OPEN=OCCUPIED
SAT SUPPLY AIR TEMP
TRN TRANSFORMER
VFD VARIABLE FREQUENCY DRIVE

Wiring Template: G20 DOC NUMBER: ---- REV: ----

JOPLIN COMMUNITY SUPERVISION CENTER

MUA-1

PROJECT 9/8/2026

MARK

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114 OF 133

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CONTROL INFORMATION

MARK	MAIN ELECTRICAL CONTROL PACKAGE		MAIN USER INTERFACE		FANS CONTROLLED												
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
KEC-1	XKC-DCV-S-11-1-1-0	WALL CABINET ON KEH-1	FULL COLOR TOUCHSCREEN	HOOD – FACE MOUNT RIGHT END OF KEH-1 SECTION 1	1	EXHAUST	E1	KEF-1	1	2056	1.5	460	60	3	NO	YES
					2	SUPPLY	S1	MUA-1	1	1455	1	460	60	3	NO	NO

CONTROL FEATURES

- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 1
- DRY FIRE CONTACTS - QTY. 2
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE

ACCUREX

DOC NUMBER: ---- REV: ----

CAUTION
UNIT MUST BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

ATTENTION
L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

c UL us LISTED 43BM

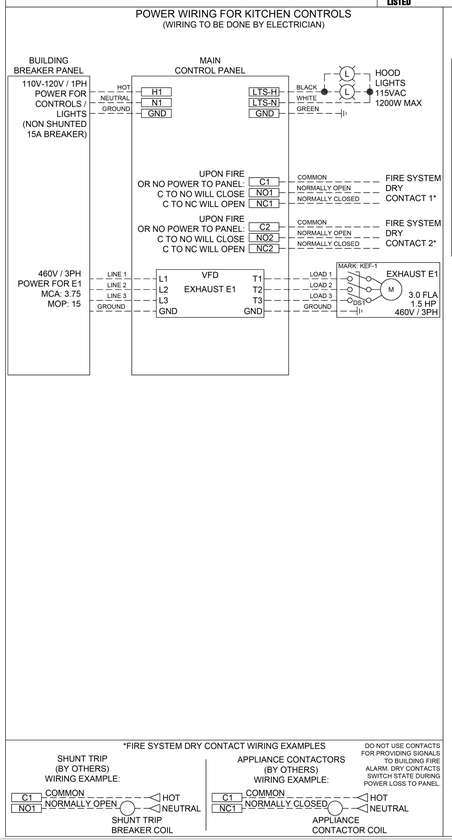
COMMERCIAL APPLIANCE OUTLET CENTER
ELECTRICAL RATINGS: 110-240V,1PHASE, 50-60HZ,15A
BASE FILE #E200616, ML FILE #E313951

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. TORQUE CONTROL BOARD SCREW TERMINALS TO 3.5 LBS. IN. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL FACTORY AT 1-800-371-6858.
PRG VERSION: V5
FIELD WIRED (CÂBLE LOCALEMENT) — — — — —
FACTORY WIRED (CÂBLE À L'USINE) ———

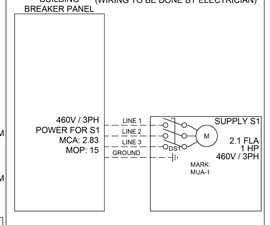
NE PAS RETIRER CES DESSINS DE CET ÉQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN CUIVRE CLASSÉS 90 °C. SERRER LES BORNES DE COMMANDE ET DE MISE À LA TERRE À 8 LB-PO. SERRER LES COSSES/VIS D'ALIMENTATION AUX COUPLES INDIQUÉS POUR LE COMPOSANT. SERRER LES BORNES À VIS DE LA CARTE DE COMMANDE À 3,5 LB-PO. LA RÉSISTANCE DU CÂBLAGE DE COMMANDE LOCAL NE DOIT PAS DÉPASSER 0,75 OHM. POUR PLUS D'INFORMATION, CONSULTER LE MANUEL OU APPELER 1-800-371-6858

WIRING DIAGRAM CODE: WDC#
JOB NAME: JOPLIN COMMUNITY SUPERVISION CENTER
MODEL: XKC-DCV-S-11-1-1-0
SERIAL NUMBER: WDSN#
MARK: KEC-1

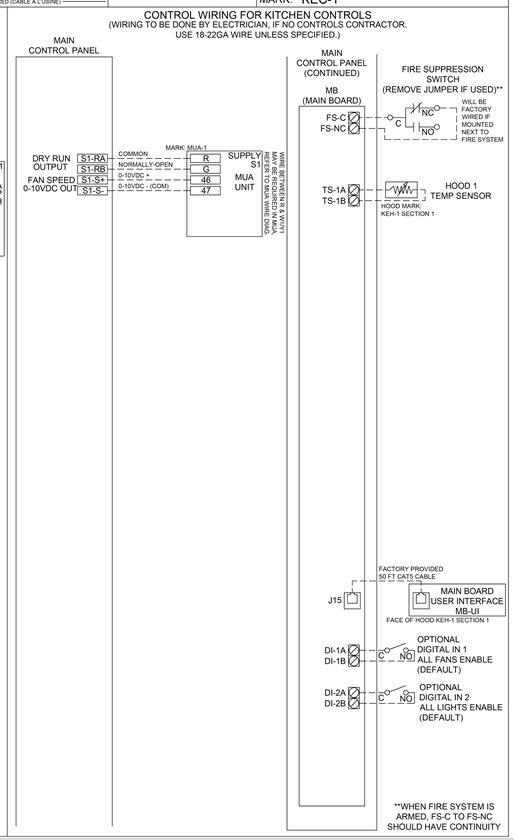
POWER WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN)



POWER WIRING FROM BREAKER PANEL DIRECT TO FANS / PCUS / MUA
(WIRING TO BE DONE BY ELECTRICIAN)



CONTROL WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN, IF NO CONTROLS CONTRACTOR. USE 18-22GA WIRE UNLESS SPECIFIED.)

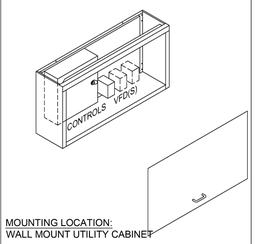


*FIRE SYSTEM DRY CONTACT WIRING EXAMPLES

DO NOT USE CONTACTS FOR PROVIDING SIGNALS TO BUILDING FIRE ALARM. DRY CONTACTS SWITCH STATE DURING POWER LOSS TO PANEL.

CABINET DETAILS

DRAWING NOT TO SCALE



MOUNTING LOCATION:
WALL MOUNT UTILITY CABINET

(INNER CONTROL BOX: 12 X 20 X 6)

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.
2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

MAIN USER INTERFACE DETAILS

MOUNTING TYPE
FACTORY MOUNTED:
FACE MOUNT RIGHT SIDE OF HOOD

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH
50FT (FACTORY PROVIDED)

DEFAULT SETTINGS

FACTORY SETTINGS
TYPE: VAV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 1
EXHAUST FANS: 1
SUPPLY FANS: 1
MB ROOM SENSOR: NO
MB TEMP SENSORS: 1
HIGH TEMP FAULT: NO
FREEZE PROTECTION: YES
MB GAS RESET: NO
FAN PROVING: NO
BMS: NONE

ZONE SETTINGS
SEE ZONE CONFIGURATION TABLE BELOW

HOOD SETTINGS
SEE HOOD CONFIGURATION TABLE BELOW

EXHAUST FAN SETTINGS
SEE FAN CONFIGURATION TABLE BELOW

SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION TABLE BELOW

SENSOR SETTINGS
SEE HOOD CONFIGURATION TABLE BELOW

USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE)

GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT)

MB FIRE/FAULT SETTINGS
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF
LIGHTS DURING FIRE: OFF

WIRING DIAGRAM CODE: WDC#
JOB NAME: JOPLIN COMMUNITY SUPERVISION CENTER
MODEL: XKC-DCV-S-11-1-1-0
SERIAL NUMBER: WDSN#
MARK: KEC-1
DOC NUMBER: ---- REV: ----
PRG VERSION: V5

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXH A	EXH B	SUPPLY		MB-TEMP SENSORS
1	H1	KEH-1 SECTION 1	Z1	E1	-	S1		TS1

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	KEF-1	Z1	1028	2056	YES	1	30	60	-	-
2	SUPPLY	S1	MUA-1	Z1	1000	1455	NO	-	-	-	5.0	10.0

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L.F+a Project No. 26.8027.00

JOPLIN COMMUNITY SUPERVISION CENTER
KEC-1
PROJECT 9/8/2026
MARK

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
NUMBER PE-2006037230
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09.30.2026

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: EDG
CHECKED BY: GJF
DESIGNED BY: EDG

SHEET TITLE:
KITCHEN HOOD DRAWINGS

SHEET NUMBER:
M-504

115 OF 133

September 30, 2026

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HOOD INFORMATION

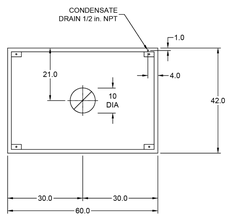
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	KEH-2 (DISH)	XD1-60-S	60.00	42	24	300 SS 100%		750.0			10	750	0.227			104	SINGLE

HOOD INFORMATION

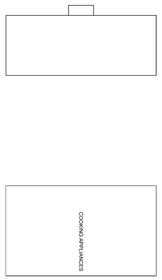
HOOD NO.	MARK	LIGHTING DETAILS			BAFFLE FILTRATION DETAILS				UTILITY CABINET(S)				
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS	
							L	H		TYPE	SIZE	MODEL	INTERFACE
1	KEH-2 (DISH)												

HOOD OPTIONS

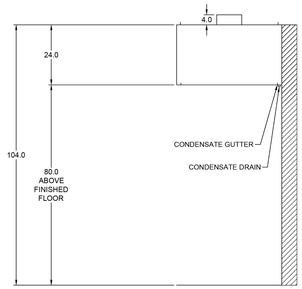
- FACTORY MOUNTED EXHAUST COLLAR(S)
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



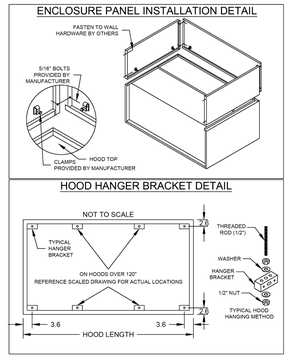
MARK: KEH-2 (Dish) - SECTION 1
PLAN VIEW



MARK: KEH-2 (Dish) - SECTION 1
ELEVATION VIEW



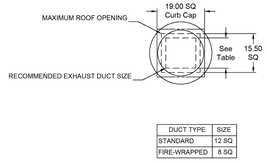
MARK: KEH-2 (Dish)
SECTION VIEW



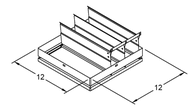
Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION							
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (in. wg)	TOTAL EXTERNAL SP (in. wg)	FAN SPEED (RPM)	OUTLET VELOCITY (ft/min)	FEI	TOTAL WEIGHT (lb)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (hp)	MOTOR SIZE (hp)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR
KEF-2 (Dish)	1	XCUE-100HP-VG	Direct	750	1.054	1.186	2,397	586	???	54	64.6	13.52	0	0	0	0.39	1/2	0	OP	115	60	1	VariGreen

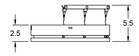
KEF-2 (Dish) : SELECTED OPTIONS AND ACCESSORIES
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 19 Square
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle,
Damper Shipped Loose, BD-100-PB-12X12, Gravity Operated, Not Coated, Nominal Size
Fastener Material: Stainless
Aluminum Wheel Material
Conduit Chase Qty 1



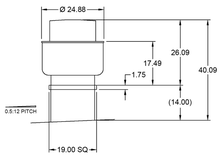
DUCT TYPE	SIZE
STANDARD	12 SQ
FIRE-WRAPPED	8 SQ



DAMPER

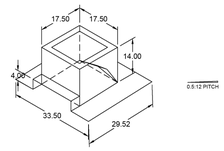


TYP. SECTION VIEW



DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



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L|F+a Project No. 26.8027.00

JOPLIN COMMUNITY SUPERVISION CENTER
KEH-2 (DISH)
PROJECT 9/8/2026
MARK

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(417)920-5245

ACCUREX

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
NUMBER PE-2006037230
PROFESSIONAL ENGINEER
09.30.2026

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DESIGN AND CONSTRUCTION

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JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: EDG
CHECKED BY: GJF
DESIGNED BY: EDG

SHEET TITLE:
KITCHEN HOOD DRAWINGS

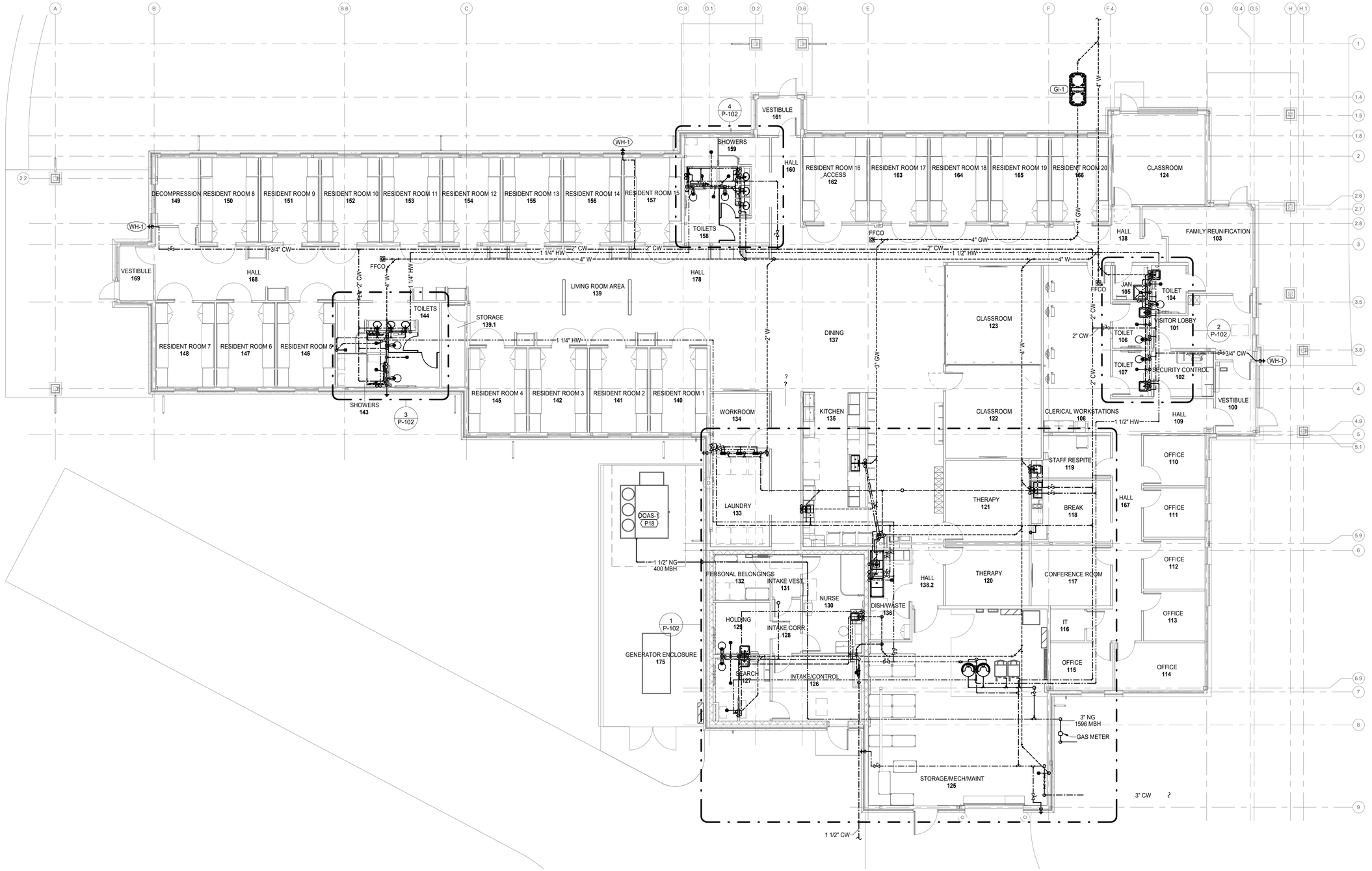
SHEET NUMBER:
M-505

September 30, 2026

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FIRST FLOOR - PLUMBING

SCALE: 1/8" = 1'-0"

P FLOOR PLAN NOTES

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
NUMBER PE-2009037230
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09.30.2026

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ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: JMS
CHECKED BY: GJF
DESIGNED BY: JMS

SHEET TITLE:
FIRST FLOOR - PLUMBING

SHEET NUMBER:
P-101

117 OF 133

September 30, 2026

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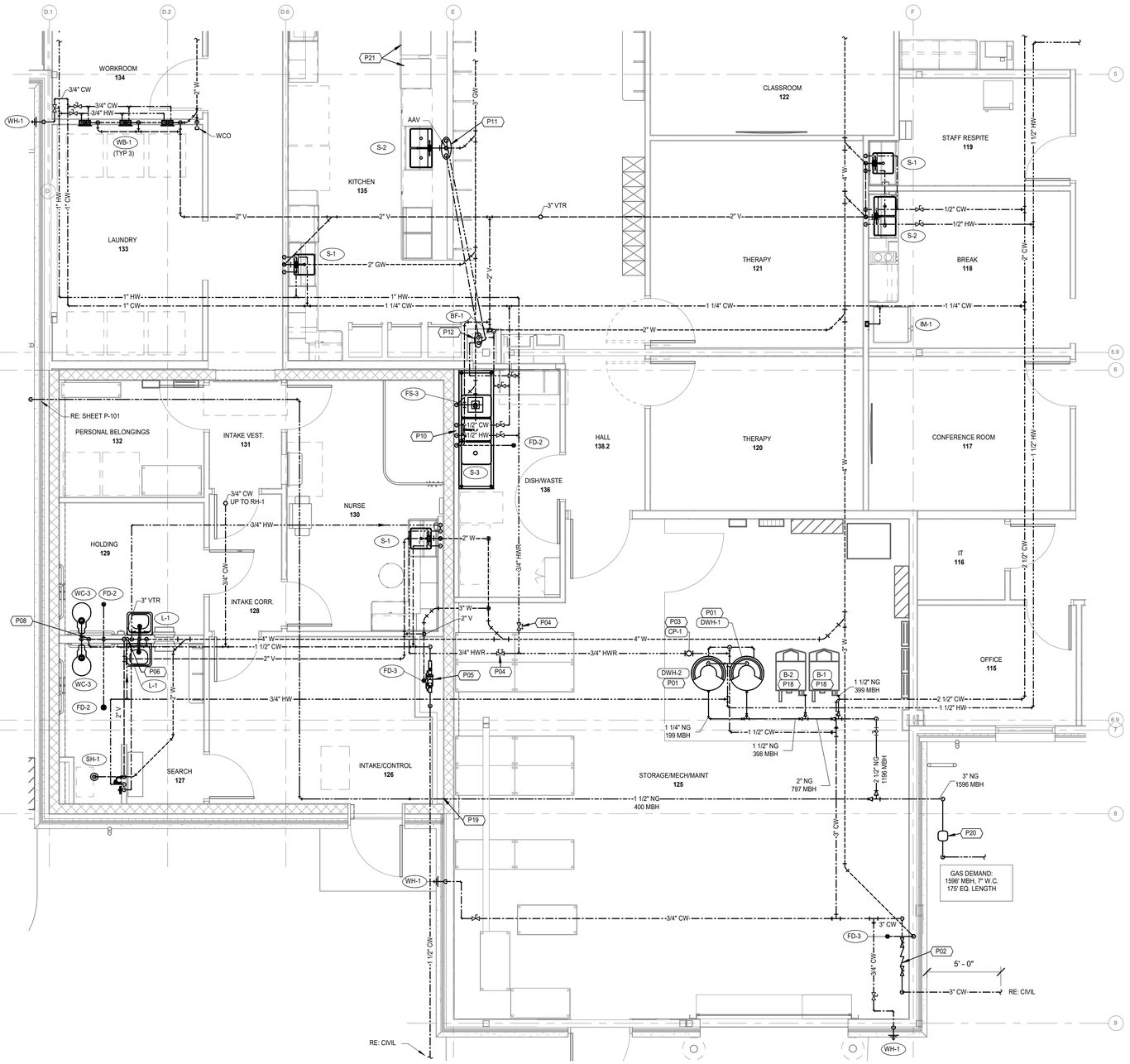
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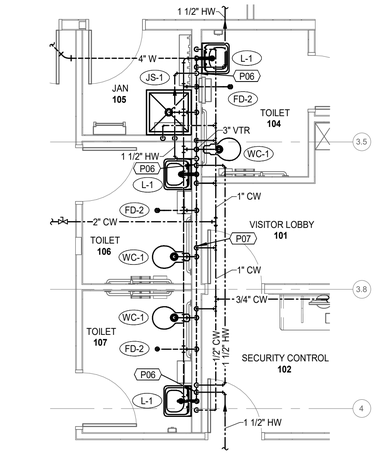
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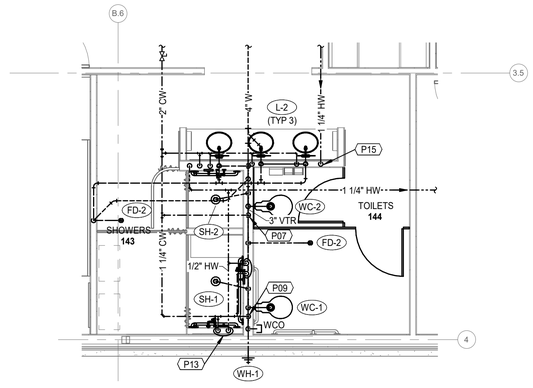
ENLARGED FIRST FLOOR - PLUMBING

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



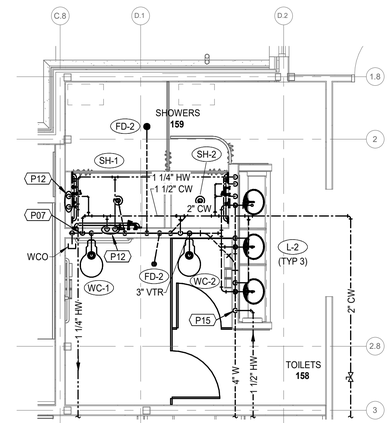
ENLARGED FLOOR PLAN - TOILET 104,106, & 107 - PLUMBING

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



ENLARGED FLOOR PLAN - SHOWERS 143 - PLUMBING

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



ENLARGED FLOOR PLAN - SHOWERS 159 - PLUMBING

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

P FLOOR PLAN NOTES

P01 NEW GAS FIRED WATER HEATERS PIPED IN PARALLEL. ROUTE WASTE FROM T&P AND DRAIN VALVES TO NEAREST FLOOR DRAIN AND INDIRECT WASTE. CONNECT NATURAL GAS PIPING TO EQUIPMENT WITH GAS COCK, DIRT LEG, AND UNION.

P02 NEW RPZ BACKFLOW PREVENTER, WATTS 957, WATTS LF009, OR EQUAL. ROUTE WASTE FROM AIR-GAP FITTING TO NEAREST FLOOR DRAIN AND TERMINATE INDIRECTLY.

P03 NEW CIRCULATION PUMP, RE: DETAIL.

P04 CALIBRATED BALANCE VALVE, SET TO 1.0 GPM.

P05 PROVIDE NEW 1-1/2" RPZ BACKFLOW PREVENTER TO SERVE STORM SHELTER, WATTS LF009 OR EQUAL. ROUTE DRAIN FROM AIR-GAP FITTING TO FLOOR DRAIN AND TERMINATE WITH AIR GAP.

P06 ROUTE HOT WATER LOOP DOWN IN WALL. PROVIDE 1/2" BRANCH CONNECTION TO SINK WITHIN 2'-0" OF FIXTURE AND ROUTE BACK UP TO ABOVE CEILING.

P07 1" COLD WATER DOWN TO WATER CLOSET CONNECTION.

P08 1 1/2" COLD WATER DOWN IN WALL. CONNECT 1" TO EACH WATER CLOSET.

P09 1 1/4" COLD WATER DOWN IN WALL. CONNECT 1" COLD WATER TO WATER CLOSET AND 3/4" COLD WATER TO WALL HYDRANT.

P10 1/2" HOT AND COLD WATER DOWN TO 3-COMP SINK.

P11 1/2" HOT AND COLD WATER UP FROM BELOW SLAB. CONNECT 1/2" HOT AND COLD WATER TO SINK, AND 1/2" HOT WATER TO EACH DISHWASHER.

P12 1/2" HOT AND COLD WATER DOWN IN WALL AND OVER BELOW SLAB AS INDICATED. RE: DETAIL.

P13 1/2" HOT AND COLD WATER DOWN TO SHOWER VALVE.

P15 ROUTE HOT WATER LOOP DOWN AND IN WALL. PROVIDE 1/2" BRANCH CONNECTION TO LAVATAORY WITHIN 2'-0" OF FIXTURE, AND BACK UP TO ABOVE CEILING AFTER CONNECTION TO SHOWER VALVE.

P18 CONNECT TO MECHANICAL EQUIPMENT WITH GAS COCK, DIRT LEG, AND UNION.

P19 ROUTE GAS PIPING THRU EXTERIOR WALL AND OUT ONTO ROOF OF STORM SHELTER. SUPPORT NATURAL GAS PIPING ON ROOF WITH PREFAB SUPPORTS, SPACE AS REQUIRED PER IFGC.

P20 NEW GAS METER BY UTILITY. PROVIDE ALL FITTINGS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION PER UTILITY STANDARDS. COORDINATE BUILDING DEMAND AND FINAL LOCATION WITH UTILITY.

P21 ROUTE DRAIN FROM DISHWASHERS TO TAILPIECE OF SINK WITH HIGH LOOP AND HOSE JOINER.

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: JMS
CHECKED BY: GJF
DESIGNED BY: JMS

SHEET TITLE:
ENLARGED FLOOR PLANS - PLUMBING

SHEET NUMBER:
P-102

118 OF 133

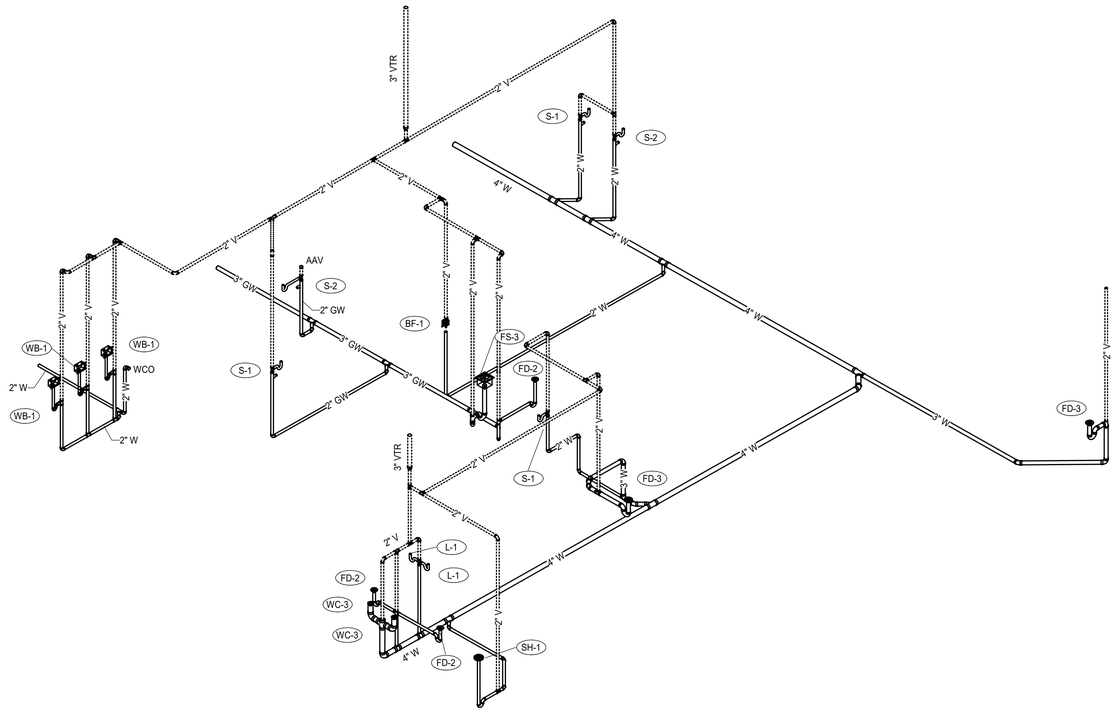
September 30, 2026

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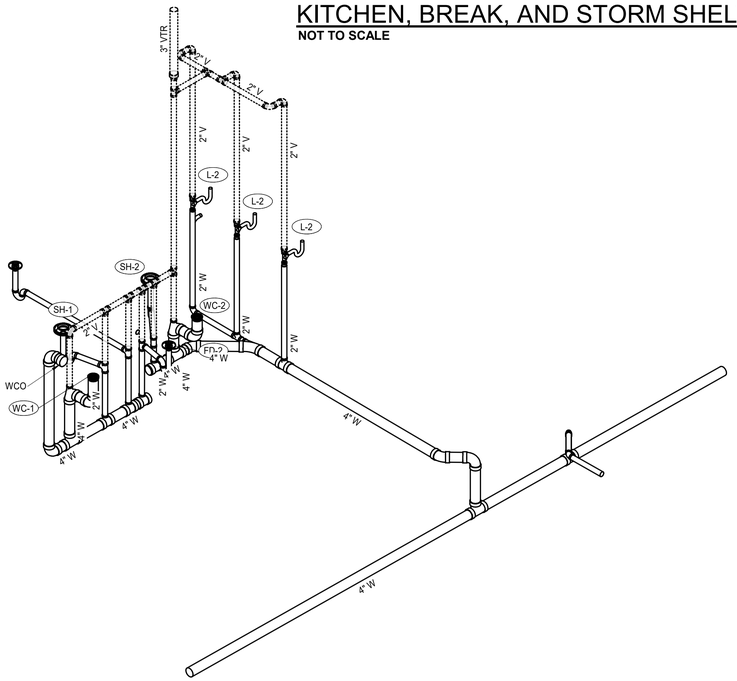
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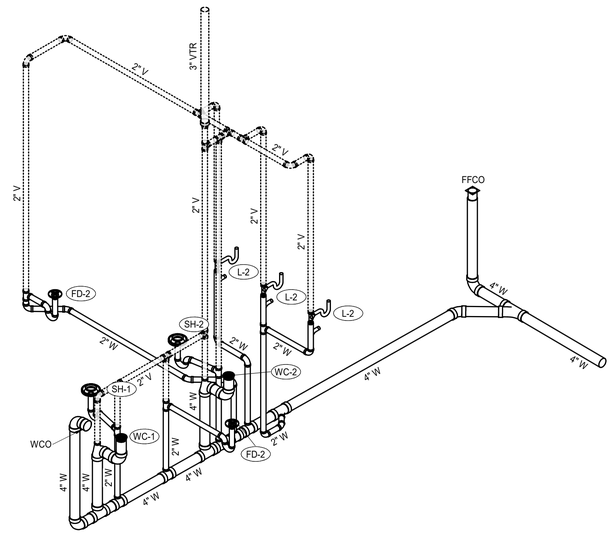
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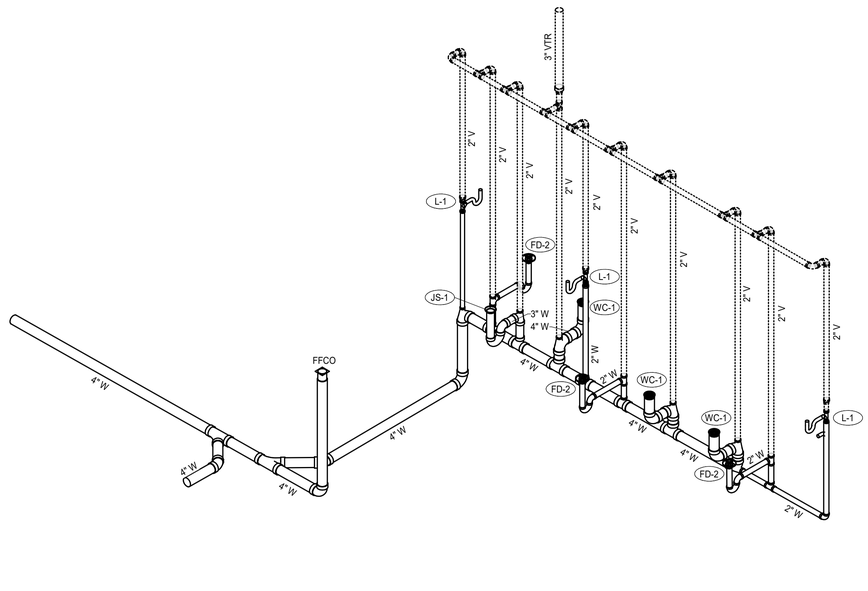
KITCHEN, BREAK, AND STORM SHELTER WASTE & VENT RISER
NOT TO SCALE



SHOWERS 159 WASTE & VENT RISER
NOT TO SCALE



SHOWERS 143 WASTE & VENT RISER
NOT TO SCALE



TOILET 104,106, & 107 WASTE & VENT RISER
NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
NUMBER PE-2009037230
PROFESSIONAL ENGINEER
09.30.2026

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PLUMBING VENT & WASTE RISERS

SHEET NUMBER:
P-201

119 OF 133

September 30, 2026

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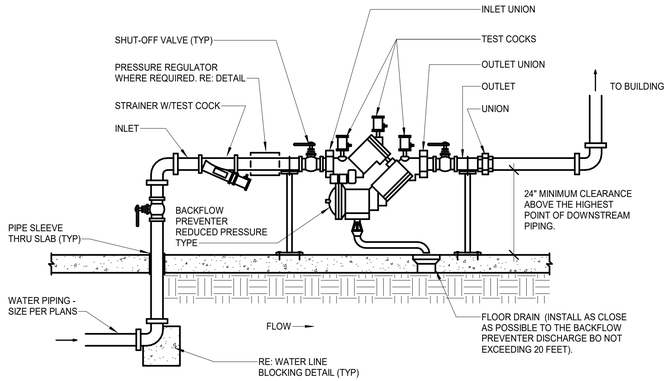
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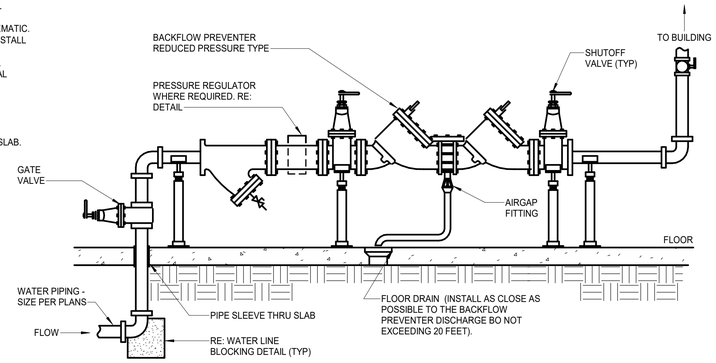
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NOTES:
1. PROVIDE PRESSURE REGULATOR. SET TO 75 PSI WHERE SOURCE PRESSURE EXCEEDS 80 PSI. INSTALL DOWNSTREAM OF BACKFLOW PREVENTER OUTLET. RE: DETAIL
2. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL SO BFP CAN BE SERVICED AND TESTED IN ACCORDANCE W/ ALL RULES & REGULATIONS OF LOCAL AUTHORITIES.
3. ROUTE DRAIN AS INDICATED ON PLANS.
4. SUPPORT AS REQUIRED FROM SLAB.

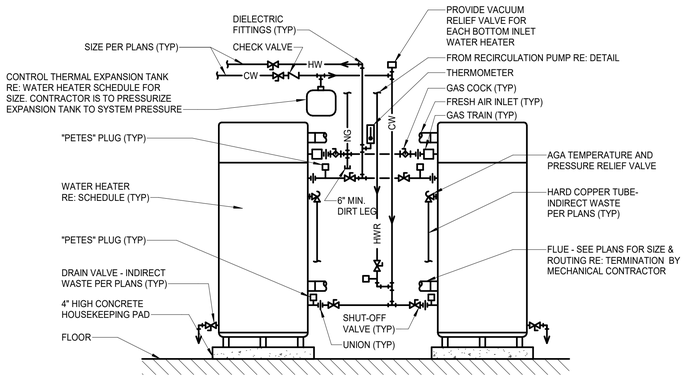


INTERIOR BACKFLOR PREVENTER DETAIL (STORM SHELTER)
SCALE: 12" = 1'-0"

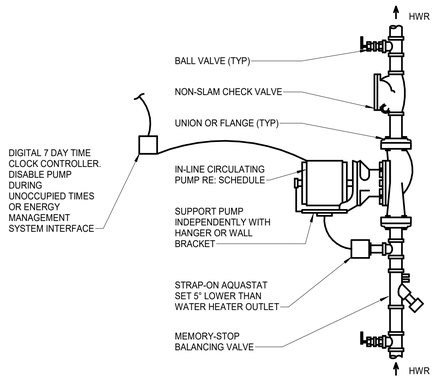
NOTES:
1. PROVIDE PRESSURE REGULATOR. SET TO 75 PSI WHERE SOURCE PRESSURE EXCEEDS 80 PSI. INSTALL DOWNSTREAM OF BACKFLOW PREVENTER OUTLET. RE: DETAIL
2. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL SO BFP CAN BE SERVICED AND TESTED IN ACCORDANCE W/ ALL RULES & REGULATIONS OF LOCAL AUTHORITIES.
3. ROUTE DRAIN AS INDICATED ON PLANS.
4. SUPPORT AS REQUIRED FROM SLAB.



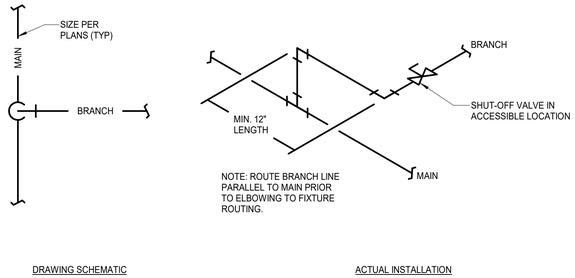
INTERIOR BACKFLOW PREVENTER DETAIL (REGULAR SERVICE)
SCALE: 12" = 1'-0"



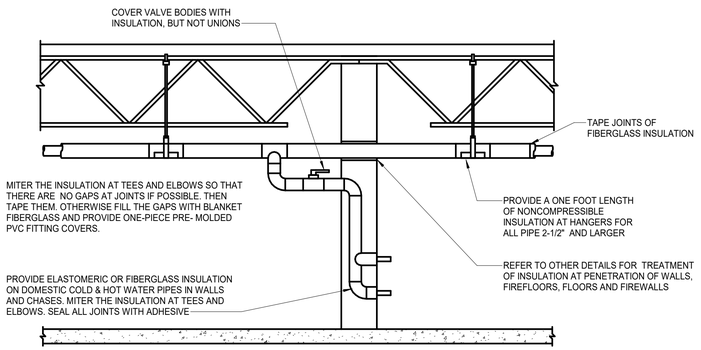
SEALED COMBUSTION GAS WATER HEATER DETAIL
NOT TO SCALE



CIRCULATING PUMP DETAIL
NOT TO SCALE

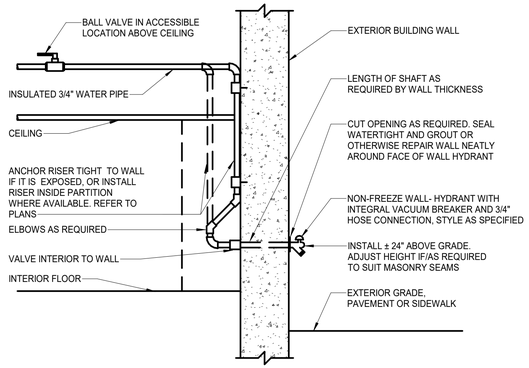


TYPICAL BRANCH LINE TAKEOFF DETAIL
NOT TO SCALE

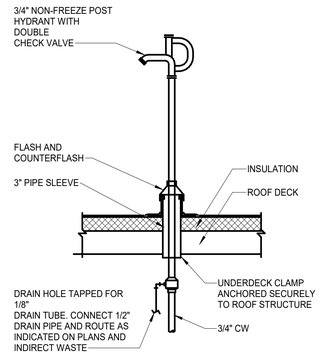


PROVIDE FIBERGLASS OR ELASTOMERIC INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL SIZES OF DOMESTIC WATER PIPING. PROVIDE FIBERGLASS OR ELASTOMERIC INSULATION ON ALL SIZES OF STORM DRAIN PIPING. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE INSULATION 1/4" LARGER ON PIPE WITH HEAT TRACING.

PIPE INSULATION DETAIL
NOT TO SCALE



NON-FREEZE WALL HYDRANT DETAIL
NOT TO SCALE



ROOF HYDRANT DETAIL
NOT TO SCALE

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MIKE KEHOE, GOVERNOR

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PLUMBING DETAILS

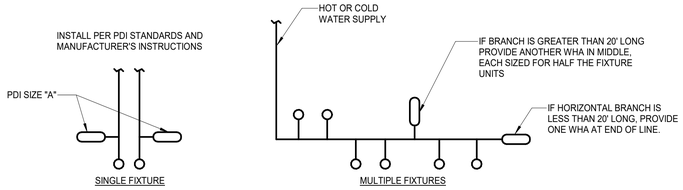
SHEET NUMBER:
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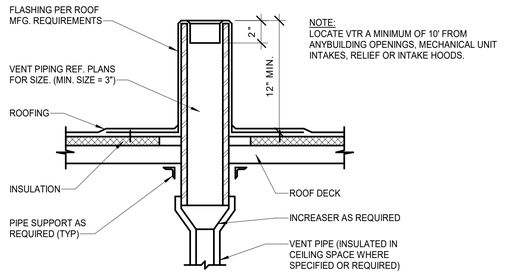


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
AA	1/2"	1-3
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1 1/4"	61-113
E	1 1/2"	114-154
F	2"	155-330

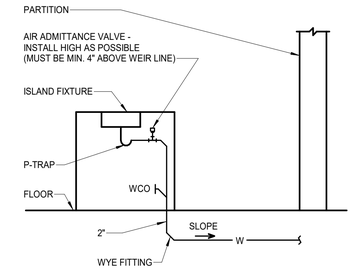
FIXTURE	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE - UNITS					
		PUBLIC			PRIVATE		
		TOTAL	C.W.	H.W.	TOTAL	C.W.	H.W.
WATER CLOSET 1.66 GPF	FLUSH VALVE	8	8	-	5	5	-
WATER CLOSET 1.66 GPF	FLUSH TANK	5	5	-	2.5	2.5	-
STALL OR WALL URINAL	FLUSH VALVE 1.06 GPF	4	4	-	-	-	-
LAVATORY	FAUCET	2	1.5	1.5	1	1	1
BATHTUB	FAUCET	4	2	3	2	1.5	1.5
SHOWER HEAD	MIXING VALVE	4	2	3	2	1	2
BATHROOM GROUP	FLUSH VALVE CLOSET	-	-	-	8	8	3
BATHROOM GROUP	FLUSH TANK CLOSET	-	-	-	6	6	3
SERVICE SINK	FAUCET	3	3	3	-	-	-
LAUNDRY TUBS (1-3)	FAUCET	-	-	-	3	3	3
DISHWASHER	EQUIPMENT CONNECTION	1.4	-	1.4	1.4	-	1.4
WASHER	EQUIPMENT CONNECTION	4	3	3	3	2.25	2.25
ICE MAKER	EQUIPMENT CONNECTION	1	1	-	1	1	-

DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010, AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS PER THE TABLES SHOWN ABOVE, BUT NOT LESS THAN WATER CONNECTION SIZE.

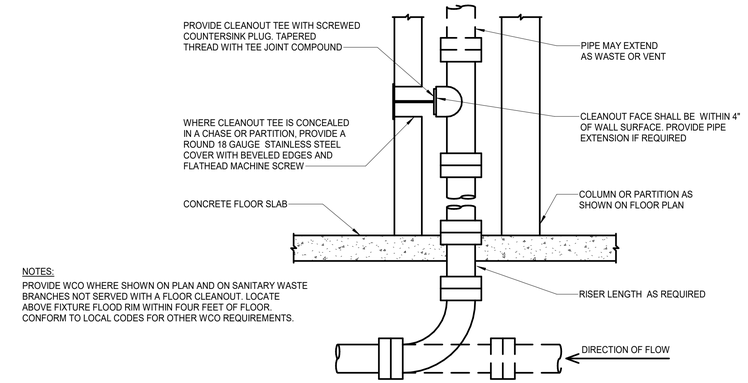
WATER HAMMER ARRESTER DETAIL
NOT TO SCALE



VENT THRU ROOF DETAIL
NOT TO SCALE

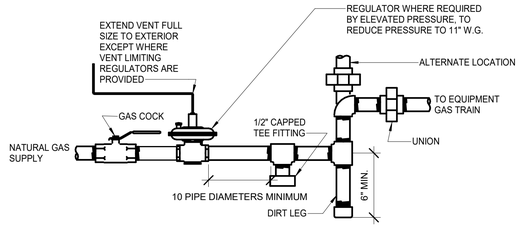


AIR ADMITTANCE VALVE VENTING DETAIL
NOT TO SCALE



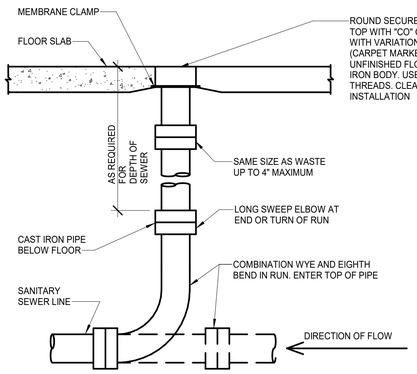
NOTES:
PROVIDE WCO WHERE SHOWN ON PLAN AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN FOUR FEET OF FLOOR. CONFORM TO LOCAL CODES FOR OTHER WCO REQUIREMENTS.

WALL CLEANOUT DETAIL
NOT TO SCALE



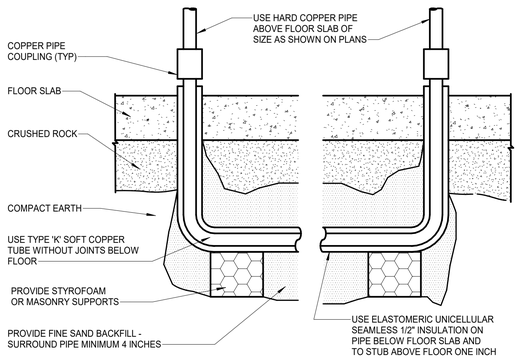
GAS EQUIPMENT CONNECTION DETAIL
NOT TO SCALE

NOTES:
LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE 90° OR GREATER, AT 100' INTERVALS ON STRAIGHT RUNS, AND/ OR WHERE SHOWN ON PLANS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONFORM TO LOCAL CODE FOR OTHER FFCO REQUIREMENTS.



FLOOR CLEANOUT DETAIL
NOT TO SCALE

NOTES:
1. IF FLOOR SLAB IS EXISTING, SAW CUT,EXCAVATE, BACKFILL, REPAIR VAPOR BARRIER, PATCH CONCRETE FLOOR. PIPE SHALL HAVE LONG RADIUS TURNS WITHOUT KINKS,THERE SHALL BE NO CONTACT OF COPPER TUBE WITH OTHER PIPE, CONDUIT, OR REINFORCING STEEL.
2. IF HOT AND COLD WATER PIPES ARE INSTALLED IN SAME TRENCH, SEPARATE THEM BY A MINIMUM OF TWELVE INCHES.



WATER PIPE UNDER SLAB DETAIL
NOT TO SCALE

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PLUMBING DETAILS

SHEET NUMBER:
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121 OF 133

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NATURAL GAS SCHEDULE

TAG	FIXTURE	CONNECTED LOAD (MBH)
	MECHANICAL EQUIPMENT	
DOAS-1	DOAS UNIT	400
B-1	HOT WATER BOILER	399
B-2	HOT WATER BOILER	399
	MECHANICAL EQUIPMENT TOTAL:	**1198**
	PLUMBING EQUIPMENT	
DWH-1	GAS-FIRED WATER HEATER	199
DWH-2	GAS-FIRED WATER HEATER	199
	PLUMBING EQUIPMENT TOTAL:	**398**
	TOTAL GAS LOAD	1596

NOTES:

INTERIOR GAS PIPING SIZED PER TABLE 402.4(5) WITH A TOTAL DEVELOPED LENGTH OF 175'-0" AND A SERVICE PRESSURE OF 7"WC.

PLUMBING FIXTURE SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	MINIMUM CONNECTION SIZE			
					CW	HW	WASTE	VENT
WC-1	WATER CLOSET (ACCESSIBLE)	AMERICAN-STANDARD	3043.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGATED BOWL, WITH 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT. SLOAN "ROYAL" 111 ESS-1.6 (1.6 GPF) HARD WIRED ELECTRONIC DIAPHRAGM FLUSH VALVE, MANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP WITH OPTIMA WALL MOUNTED SENSOR. PROVIDE 120/24 REMOTE TRANSFORMER FOR UP TO 10 FLUSH VALVES. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, AND J. R. SMITH WATER CLOSET SUPPORT. NOTE: MOUNT FLUSH VALVE TO WIDE SIDE OF FIXTURE.	1"	-	4"	2"
WC-2	WATER CLOSET	AMERICAN-STANDARD	2234.001 "MADERA"	FLOOR MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA, HIGH EFFICIENCY, DIRECT FED SIPHON JET ACTION, FULLY GLAZED 2" TRAP WAY, ELONGATED BOWL, WITH 1-1/2" TOP SPUD. 15" RIM HEIGHT. SLOAN "ROYAL" 111 ESS-1.6 (1.6 GPF) HARD WIRED ELECTRONIC DIAPHRAGM FLUSH VALVE, MANUAL RELEASE, VACUUM BREAKER AND ANGLE STOP WITH OPTIMA WALL MOUNTED SENSOR. PROVIDE 120/24 REMOTE TRANSFORMER FOR UP TO 10 FLUSH VALVES. ACCESSORIES: CHURCH 9500SSCT WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, AND J. R. SMITH WATER CLOSET SUPPORT. NOTE: MOUNT FLUSH VALVE TO WIDE SIDE OF FIXTURE.	1"	-	4"	2"
WC-3	WATER CLOSET INTAKE	MURDOCK	1006-HCT	FLOOR MOUNTED, SEAMLESS 16 GA STAINLESS STEEL TOILET WITH FRONT SERVICEABILITY, ELONGATED BOWL, AND 1-1/2" TOP SPUD. 16-1/2" RIM HEIGHT. SLOAN "ROYAL" 111 (1.6 GPF) DIAPHRAGM FLUSH VALVE WITH VACUUM BREAKER AND ANGLE STOP. ACCESSORIES: OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, ANCHOR BOLTS, AND CAPS. NOTE: MOUNT FLUSH VALVE TO WIDE SIDE OF FIXTURE.	1"	-	4"	2"
L-1	LAVATORY (ACCESSIBLE)	AMERICAN-STANDARD	"LUCERNE" 0355.012	20"x18", WALL HUNG VITREOUS CHINA, WITH FRONT OVERFLOW AND INTEGRAL BACK. CHICAGO FAUCETS MODEL 802-XKABCP FAUCET WITH CERAMIC OPERATING CARTRIDGE, 4" CENTERS, 4" INTEGRAL SPOUT, LEVER HANDLES. ACCESSORIES: PROVIDE LEONARD 170-LF LEAD FREE BRONZE THERMOSTATIC MIXING VALVE WITH 0.25 GPM MINIMUM FLOW RATE, INTEGRAL CHECK VALVES, DISCHARGE SET AT 105 F, MOUNTED DOWNSTREAM OF FIXTURE STOPS, WITH HOT AND COLD WATER PIPED TO VALVE, TEMPERED AND COLD WATER TO LAVATORY. CHICAGO FAUCETS MODEL 337-XCP OFFSET GRID DRAIN, SEMI-CAST BRASS P-TRAP WITH CLEANOUT AND CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS. PROVIDE WITH FULLY MOLDED FLEXIBLE VINYL INSULATION KIT TO COVER TRAP, SUPPLIES AND STOPS, TRUBRO E-Z LAV GUARD. NOTE: MOUNT FIXTURE RIM 34" ABOVE FLOOR.	1/2"	1/2"	1-1/2"	1-1/2"
L-2	LAVATORY (ACCESSIBLE)	-	-	INTEGRAL WITH COUNTERTOPS, RE: ARCHITECTURAL DRAWINGS. CHICAGO FAUCETS MODEL 802-XKABCP FAUCET WITH CERAMIC OPERATING CARTRIDGE, 4" CENTERS, 4" INTEGRAL SPOUT, LEVER HANDLES. ACCESSORIES: PROVIDE LEONARD 170-LF LEAD FREE BRONZE THERMOSTATIC MIXING VALVE WITH 0.25 GPM MINIMUM FLOW RATE, INTEGRAL CHECK VALVES, DISCHARGE SET AT 105 F, MOUNTED DOWNSTREAM OF FIXTURE STOPS, WITH HOT AND COLD WATER PIPED TO VALVE, TEMPERED AND COLD WATER TO LAVATORY. CHICAGO FAUCETS MODEL 337-XCP OFFSET GRID DRAIN, SEMI-CAST BRASS P-TRAP WITH CLEANOUT AND CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS. PROVIDE WITH FULLY MOLDED FLEXIBLE VINYL INSULATION KIT TO COVER TRAP, SUPPLIES AND STOPS, TRUBRO E-Z LAV GUARD.	1/2"	1/2"	1-1/2"	1-1/2"
S-1	SINK (ACCESSIBLE)	ELKAY	ELUHAD141855	SINGLE COMPARTMENT 16 X 20 UNDERMOUNT SINK, 18 GA, TYPE 304 STAINLESS STEEL, 5-3/8" DEEP BOWL, OFFSET DRAIN. DELTA MODEL 19867LF "NICOLI" DECK MOUNTED FAUCET WITH CERAMIC OPERATING CARTRIDGE, SINGLE LEVER HANDLE, PULL DOWN SWING SPOUT WITH MAGNETIC DOCKING, AND 1.8 GPM AERATOR, SINGLE HOLE MOUNTING WITH OPTIONAL DECK PLATE. ACCESSORIES: ELKAY LKAD-35 STRAINER WITH OFFSET 1-1/2" TAILPIECE, 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS.	1/2"	1/2"	2"	1-1/2"
S-2	SINK (ACCESSIBLE)	ELKAY	ELUHAD-291855	DOUBLE COMPARTMENT 29 x 18 UNDERMOUNT SINK, 18 GA, TYPE 304 STAINLESS STEEL, 5-1/2" DEEP BOWL. DELTA MODEL 19867LF "NICOLI" DECK MOUNTED FAUCET WITH CERAMIC OPERATING CARTRIDGE, SINGLE LEVER HANDLE, PULL DOWN SWING SPOUT WITH MAGNETIC DOCKING, AND 1.8 GPM AERATOR, SINGLE HOLE MOUNTING WITH OPTIONAL DECK PLATE. ACCESSORIES: ELKAY LKAD-35 STRAINER WITH OFFSET 1-1/2" TAILPIECE, 1-1/2" 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS.	1/2"	1/2"	2"	1-1/2"
S-3	TRIPLE SINK	KROWNE	CS-1818-3-LR-LF	TRIPLE SINK, 14 GAGE TYPE 304 STAINLESS STEEL, NSF APPROVED. 90" OVERALL LENGTH, 18"x18"x24" BOWLS, RADIUS CORNERS, 24" DRAINBOARD EACH SIDE, INTEGRAL BACKSPLASH, INTEGRAL STAINLESS STEEL LEGS WITH 1" ADJUSTABLE BULLET FEET. KROWNE #17-109WL BACKMOUNT CHROME PLATED MANUAL FAUCET WITH COMPRSSION CARTRIDGES, 8" CENTERS, 44" STAINLESS HOSE WITH GRIP, LEVER HANDLES, AND 12" ADD-ON FAUCET. ACCESSORIES: KROWNE TWIST WASTE DRAINS WITH 3-1/2" STRAINERS, ROTARY TWIST HANDLE WITH FIELD FABRICATED INDIRECT DRAINS TO WASTE RECEPTOR, SUPPLIES AND STOPS.	1/2"	1/2"	2"	1-1/2"
SH-1	SHOWER (ACCESSIBLE)	SYMMONS	9605-X-PLR-1.5	FIELD BUILT BASE, FLOOR DRAIN INCLUDED. RE: ARCHITECTURAL DRAWINGS. TWO (2) SHOWER/HAND SHOWER SYSTEMS, COMPLETE WITH PRESSURE BALANCED MIXING VALVE, LEVER HANDLE, INTEGRAL SERVICE STOPS, FIXED SHOWERHEAD WITH ARM AND FLANGE, ACCESSIBLE 36" GRAB BAR AND ACCESSIBLE HAND SHOWER WITH NON-POSITIVE SHUT OFF, 60" STAINLESS STEEL HOSE, IN-LINE VACUUM BREAKER. SEPARATE DUAL OUTLET DIVERTER. LOCATE COMPLETE VALVE/TRIM SYSTEM ON LONG WALL PER ADA STANDARDS, AND ONE VALVE/TRIM SYSTEM ON SHORT WALL. RE: ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.	1/2"	1/2"	2"	1-1/2"
SH-2	SHOWER	SYMMONS	9605-X-PLR-1.5	FIELD BUILT BASE, FLOOR DRAIN INCLUDED. RE: ARCHITECTURAL DRAWINGS. SHOWER/HAND SHOWER SYSTEM, COMPLETE WITH PRESSURE BALANCED MIXING VALVE, LEVER HANDLE, INTEGRAL SERVICE STOPS, FIXED SHOWERHEAD WITH ARM AND FLANGE, ACCESSIBLE 36" GRAB BAR AND ACCESSIBLE HAND SHOWER WITH NON-POSITIVE SHUT OFF, 60" STAINLESS STEEL HOSE, IN-LINE VACUUM BREAKER. SEPARATE DUAL OUTLET DIVERTER. RE: ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.	1/2"	1/2"	2"	1-1/2"
JS-1	JANITOR SINK	STERN-WILLIAMS	MTB-2424	SIZE 24" X 24" X 10", TERRAZZO SERVICE SINK WITH CAST BRASS DRAIN, STAINLESS STEEL STRAINER, 3" DRAIN CONNECTION. CHICAGO FAUCETS MODEL 897-CCP WITH QUATURN OPERATING CARTRIDGE, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 3/4" MALE HOSE THREAD OUTLET, 369 LEVER HANDLES, FLANGED ADJUSTABLE SUPPLY ARM AND INTEGRAL SUPPLY STOPS AND CHECK VALVES. ACCESSORIES: "BP" STAINLESS STEEP BACK PANELS, "V-70" EXTRUDED VINYL BUMPER GUARDS ON EXPOSED SIDES, "T-35" 36" RUBBER HOSE WITH STAINLESS STEEL WALL BRACKET.	1/2"	1/2"	3"	2"
BF-1	BOTTLE FILLER	ELKAY	--	BI-LEVEL CABINET WITH BOTTLE FILLER & FILTER, ACCESSIBLE BARRIER-FREE BI-LEVEL COOLER, 8.0 G.P.H. (50° F WATER WITH 90° F AIR TEMPERATURE), PUSH BAR ACTIVATION, STAINLESS STEEL COOLER TOP, HEAVY GAUGE STAINLESS STEEL CABINET, CANE APRON ON UPPER BOWL, ELECTRONIC ACTUATED INTEGRAL BOTTLE FILLER STATION ON LOWER FOUNTAIN WITH 3000 GALLON FILTER AND AUTO-RESET WATER SENTRY SYSTEM. 120V/1PH/60HZ. ACCESSORIES: 17 GA. SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED SUPPLY AND STOP, J.R. SMITH FLOOR MOUNTED TYPE SUPPORT WITH "PRO-SET" UPRIGHTS. NOTES: MOUNT WITH LOWER LEVEL SPOUT 35" ABOVE FINISH FLOOR.	1/2"	-	1-1/2"	1-1/2"
IM-1	ICE MAKER WALL BOX	SIOUX CHIEF	696-G1000 SERIES	RECESSED ICE MAKER WALL BOX WITH QUARTER TURN VALVE AND 1/2" INLET, ABS COVER.	1/2"	-	-	-
WB-1	WASHER WALL BOX	SIOUX CHIEF	696-2313 SERIES	RECESSED SUPPLY AND DRAIN WALL BOXES WITH QUARTER TURN VALVES, MINI SHOCK ARRESTORS, SWEAT WATER CONNECTIONS, 2" DRAIN, ABS COVERS.	1/2"	1/2"	2"	1-1/2"
FD-2	FLOOR DRAIN	SIOUX CHIEF	833-225NR (ROUND) 833-225NQ (SQUARE)	GENERAL PURPOSE, CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS. OUTLET SIZE PER PLANS. PROVIDE WITH SQUARE GRATE WHERE DRAIN IS INSTALLED IN TILE FLOORS. NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.	-	-	2"	1-1/2"
FS-3	SANITARY FLOOR SINK	SIOUX CHIEF	861-RF2386NC	MEDIUM CAPACITY SANITARY FLOOR SINK, 8½" ROUND TOP, 6" DEEP CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE GRATE, ALUMINUM DOME STRAINER, ANCHOR FLANGE, SEEPAGE HOLES, FLASHING CLAMP. NO HUB OUTLET. PROVIDE 3/4 TOP WHERE DRAIN RECEIVES INDIRECT WASTE.	-	-	3"	2"
WH-1	WALL HYDRANT	WOODFORD	B67	CONCEALED, FREEZELESS WALL HYDRANT, CHROME PLATED BRASS, 3/4" INLET AND HOSE CONNECTION. INTEGRAL ASSE DOUBLE CHECK BACKFLOW PREVENTER, LOOSE KEY, WITH WALL BOX AND HINGED COVER, STEM LENGTH AS REQUIRED.	3/4"	-	-	-

GENERAL NOTES (TYPICAL ALL SHEETS)

A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.

B. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.

C. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON- RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

D. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.

E. PIPING ROUTED BELOW COUNTER IN CABINETS SHALL BE ROUTED AS NOTED. NOT TO INTERFERE WITH DRAWERS, SHELVES, EQUIPMENT, ETC., AND SUPPORT FROM BACK WALL OF CABINET.

F. PLUMBING CONTRACTOR SHALL PROVIDE PRO-SET SYSTEMS 'TRAP GUARD' IN ALL FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.

G. PLUMBING CONTRACTOR SHALL VERIFY WALL THICKNESS WITH ARCHITECT PRIOR TO ORDERING FREEZE PROOF WALL HYDRANTS.

H. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.

I. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50 R2C2UL OR EQUIVALENT.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

PLUMBING SYMBOLS

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW PIPING
- CW - COLD WATER
- HW - HOT WATER
- HWR - HOT WATER RETURN
- NG - NATURAL GAS
- V - SANITARY VENT ABOVE GRD./FLOOR ABOVE
- V - SANITARY VENT BELOW GROUND
- W - SANITARY WASTE ABOVE GRD./FLOOR ABOVE
- W - SANITARY WASTE BELOW GROUND
- GW - GREASE WASTE ABOVE GRD./FLOOR ABOVE
- GW - GREASE WASTE BELOW GROUND
- BALANCE VALVE
- GAS SHUT-OFF COCK
- SHUT-OFF VALVE
- CHECK VALVE
- OR FLOOR DRAIN
- PIPE DROP/ PIPE RISE
- BOTTOM OUTLET TEE
- TOP OUTLET TEE
- HB HOSE BIBB
- WH WALL HYDRANT
- WALL CLEANOUT
- FFCO FINISHED FLOOR CLEANOUT
- VTR VENT THROUGH ROOF
- CONCENTRIC REDUCER
- DWH-1 EQUIPMENT TYPE AND DESIGNATION
- L-1 PLUMBING FIXTURE TYPE AND DESIGNATION

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L|F+a Project No. 26.8027.00

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MIKE KEHOE,
GOVERNOR

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

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SHEET TITLE:
PLUMBING GENERAL NOTES, SCHEDULES, & SYMBOLS

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P-401

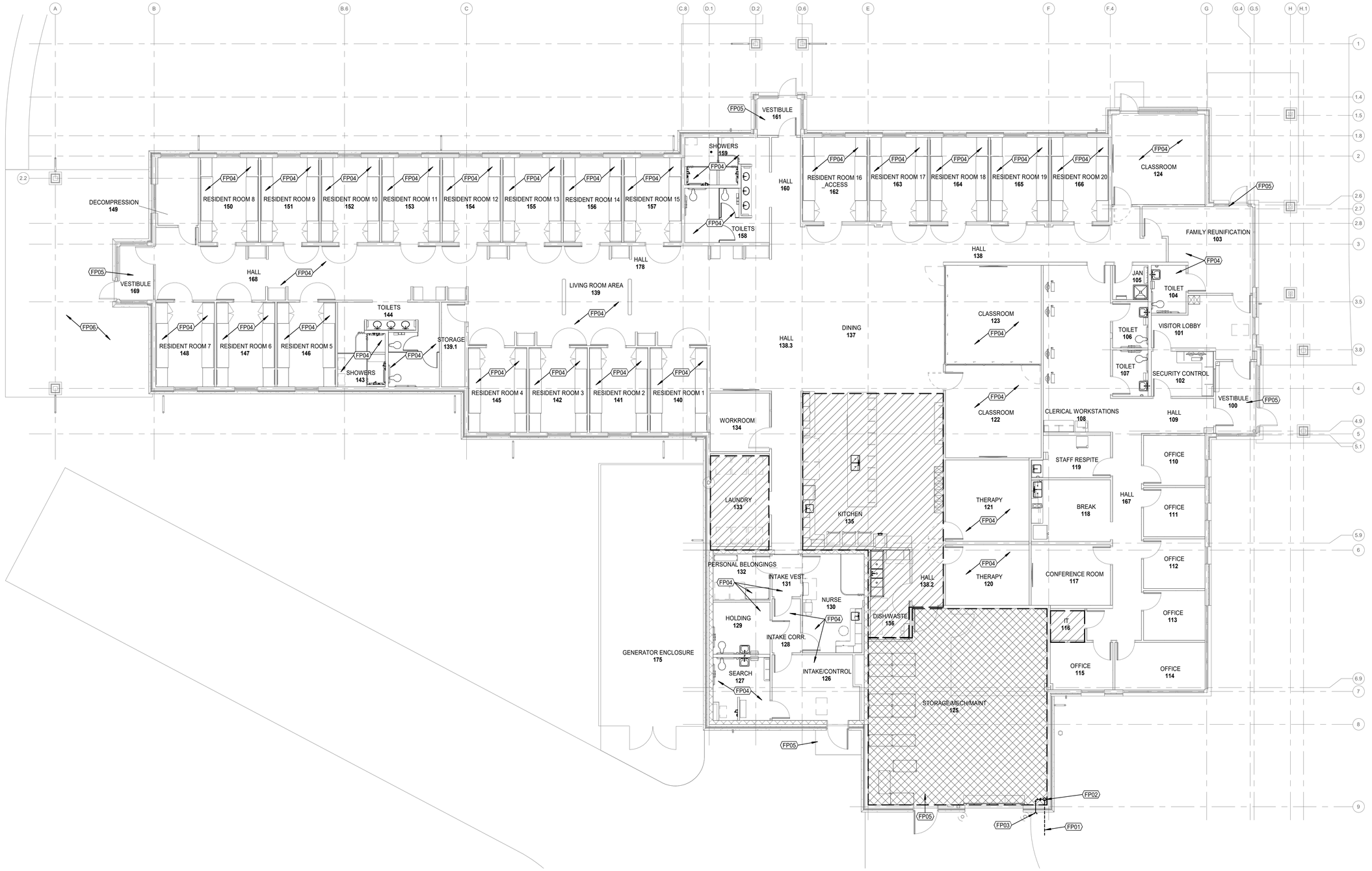
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September 30, 2026

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FIRST FLOOR - FIRE PROTECTION

SCALE: 1/8" = 1'-0"

FP FLOOR PLAN NOTES

- FP01 6" UNDERGROUND FIRE LINE TO BUILDING. CONNECT FIVE FEET FROM BUILDING EXTERIOR WALL. SLEEVE EXTERIOR WALL AND PROVIDE THRUST PROTECTION PER NFPA 13.
- FP02 6 INCH SPRINKLER RISER, 6" DOUBLE DETECTOR CHECK BACKFLOW PREVENTER, FLOW AND TAMPER SWITCHES, 2 INCH MAIN DRAIN EXTENDED TO OUTSIDE.
- FP03 SIAMESE FIRE DEPARTMENT CONNECTION. PROVIDE HORN/STROBE ABOVE.
- FP04 PROVIDE INSTITUTIONAL PENDENT OR SIDEWALL SPRINKLERS IN THIS SPACE.
- FP05 PROTECT SPRINKLERS AND PIPE IN ENTRIES & VESTIBULES FROM FREEZING. PROVIDE HEATED PLENUM, INSULATED PIPING, DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM AS NECESSARY.
- FP06 NON-COMBUSTIBLE DRIVE THRU CANOPY DOES NOT REQUIRE SPRINKLER PROTECTION IN ACCORDANCE WITH 2016 NFPA 13 8.15.7.

FIRE PROTECTION LEGEND

PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.

- LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER 1500 SF) PLUS 100 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.

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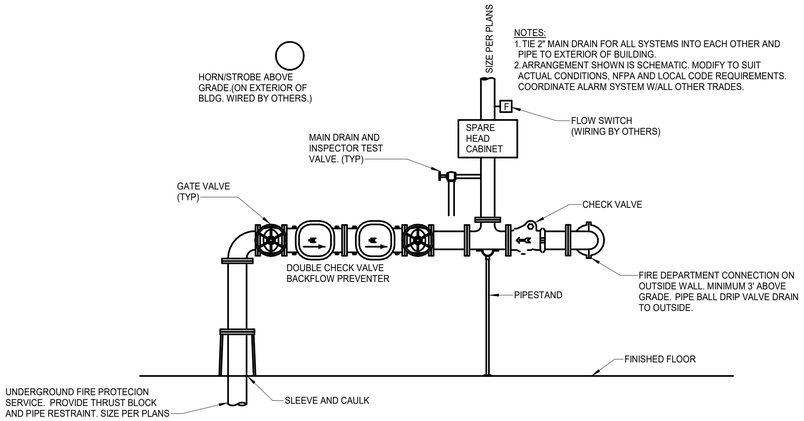
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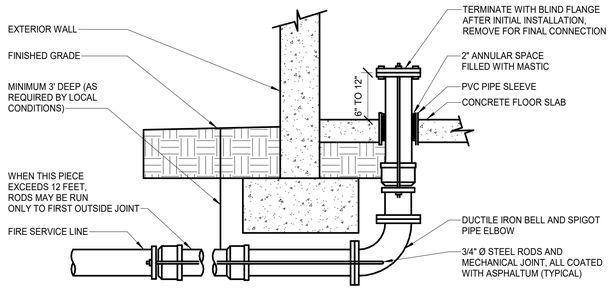
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RISER ELEVATION DETAIL

NOT TO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT FIELD CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS. VERIFY FOUNDATION WITH ARCHITECTURAL DRAWINGS. COORDINATE WHO IS TO PROVIDE THE FIRE SERVICE ENTRY WITH THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO SUBMITTING BID.

RISER ELEVATION DETAIL

NOT TO SCALE

FIRE PROTECTION DESIGN CRITERIA

A. ENTIRE BUILDING SHALL BE PROVIDED WITH A WET TYPE SPRINKLER SYSTEM. IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.

B. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE.

C. PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1-1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.

D. PROVIDE INSTITUTIONAL SPACE SPRINKLERS IN ALL AREAS ACCESSIBLE TO THE RESIDENT POPULATION – TYCO TFP651 OR EQUAL, HORIZONTAL SIDEWALL OR PENDENT FIRE SPRINKLERS. THERE SHALL BE NO ACCESSIBLE PARTS THAT ACTIVATE THE SPRINKLER SYSTEM WHEN VANDALIZED. PROVIDE CONCEALED PENDENT SPRINKLERS THROUGHOUT OTHER AREAS WITH WHITE PLATE.

E. ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED ±1/2" IN 2'x2' PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED ±1/2" WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.

F. FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION.

G. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.

H. CONTRACTOR SHALL OBTAIN CURRENT FIRE HYDRANT FLOW TEST DATA AND USE FOR SYSTEM HYDRAULIC CALCULATIONS. USE DATA TO DESIGN SYSTEMS ACCORDINGLY BASED ON AVERAGE NUMBERS PLUS 10% SAFETY.

I. PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.

J. CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.

K. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.

L. NFPA 13 - 2016 ED - 7.1.5 A SINGLE AIR VENT WITH A CONNECTION SHALL BE PROVIDED ON EACH WET PIPE SYSTEM. THE AIR VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS: MANUAL VALVE, MINIMUM 1/2 (15MM) SIZE; OR AUTOMATIC AIR VENT.

M. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.

N. SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION.COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.

O. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.

P. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Q. SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

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L|F+a Project No. 26.8027.00

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
GREGORY J. FENDLER
NUMBER PE-2009037230
PROFESSIONAL ENGINEER
09.30.2026

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

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FIRE PROTECTION DETAILS AND DESIGN CRITERIA

SHEET NUMBER:
FP-102

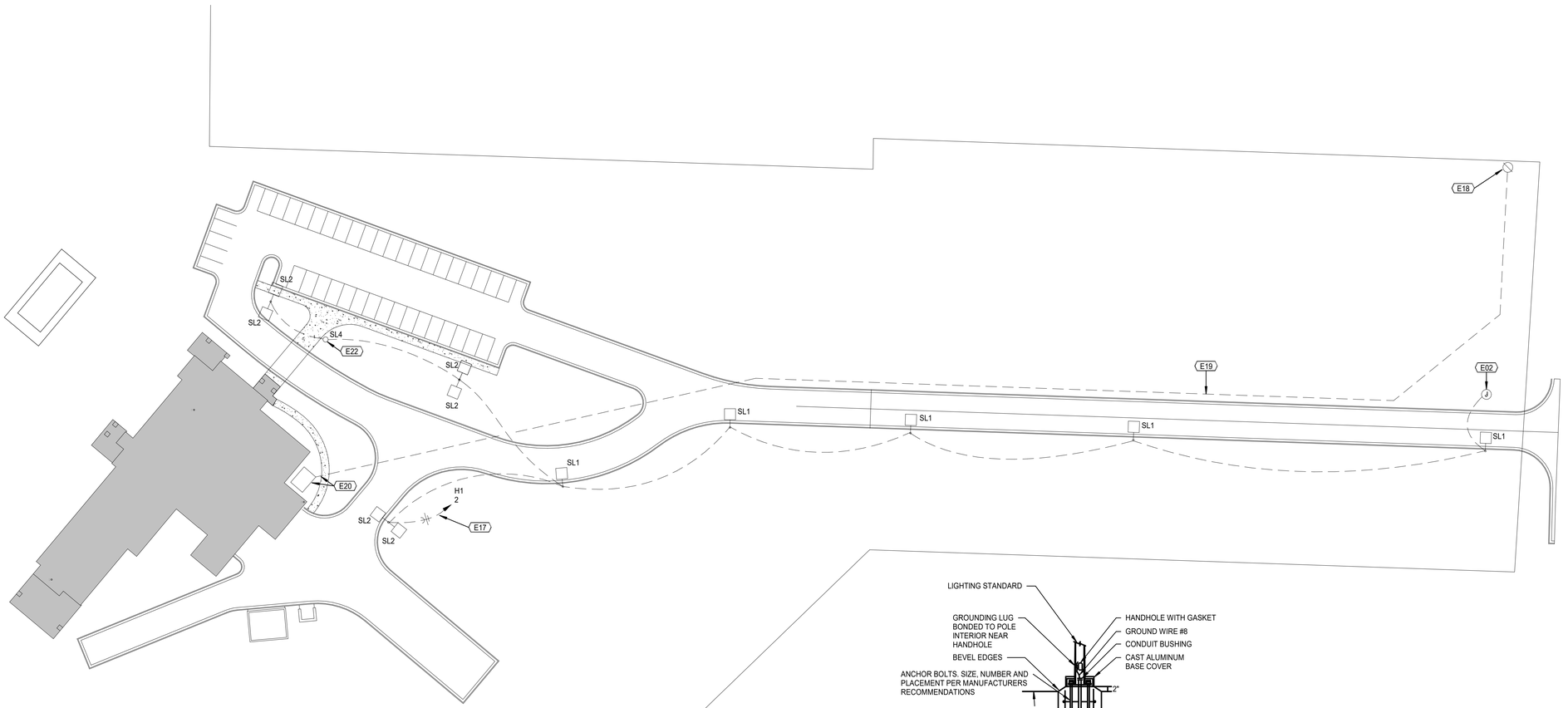
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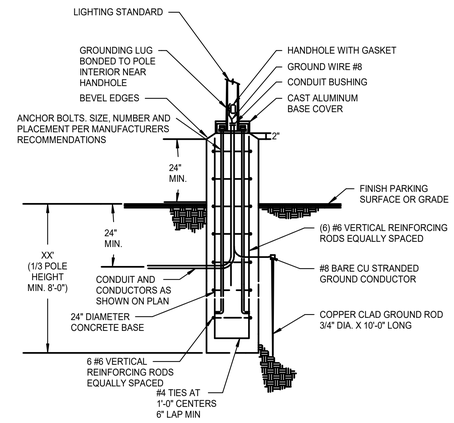


SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"

FLOOR PLAN NOTES

E

E02	MAKE 277V POWER CONNECTION TO INTERNALLY LIT MONUMENT SIGN. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
E17	ROUTE CIRCUIT THROUGH 3-POLE EXTERIOR LIGHTING CONTACTOR IN A NEMA 1 ENCLOSURE. INSTALL LIGHTING CONTACTOR ADJACENT TO PANEL H1. PROVIDE A PHOTOCELL TO CONTROL CONTACTOR AND EXTERIOR LIGHTING CIRCUITS.
E18	UTILITY COMPANY POWER POLE WITH DIP TO UNDERGROUND PRIMARY FEEDER.
E19	PROVIDE EMPTY 4" CONDUIT FOR UTILITY PRIMARY FEEDER. COORDINATE ROUTING, JUNCTION/PULL BOXES AND CONDUIT SPECIFICATIONS WITH UTILITY COMPANY.
E20	PAD MOUNTED UTILITY TRANSFORMER WITH UTILITY METER. PROVIDE PAD PER UTILITY COMPANY STANDARDS. REFERENCE ONE-LINE DIAGRAM FOR SECONDARY SERVICE FEEDER.
E22	360 DEGREE UPLIGHT MOUNTED ON FLAG POLE. REFERENCE MANUFACTURER INSTALL GUIDE FOR MOUNTING HEIGHT BASED ON FLAG POLE HEIGHT.



*POLE BASE SHALL BE CALCULATED USING THE FOLLOWING CRITERIA:

WWD LOADING
80MPH (104 GUST)

TOTAL EPA OF LUMINARIES
+ TOTAL EPA OF BRACKETS
= TOTAL EPA OF LUMINAIRES/BRACKETS

SELECT POLE BASED ON MAXIMUM EPA LISTED IN MANUFACTURERS CATALOG.

IN ANY CASE MIN. POLE BASE DEPTH SHALL BE 96". FINAL DEPTH OF POLE BASE SHALL BE VERIFIED WITH STRUCTURAL ENGINEER PRIOR TO PLACEMENT.

LIGHTING POLE BASE DETAIL
NOT TO SCALE

Call BEFORE you DIG
TOLL FREE
1-800-DIG-RITE
(344-7483)

MISSOURI ONE-CALL SYSTEM, INC.

UTILITY WARNING:
The existence and location of any underground utility pipes, lines or structures shown on these drawings are obtained by a search of the available records. The contractor is required to take due precautionary measures to protect the utility lines shown, and all other lines not of record or not shown on these drawings by verification of their location in the field prior to the initiation of the actual portion of their work.

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SITE PLAN - ELECTRICAL

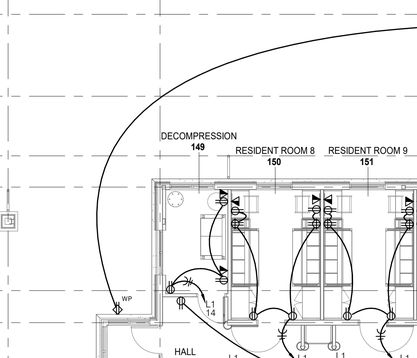
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E-101

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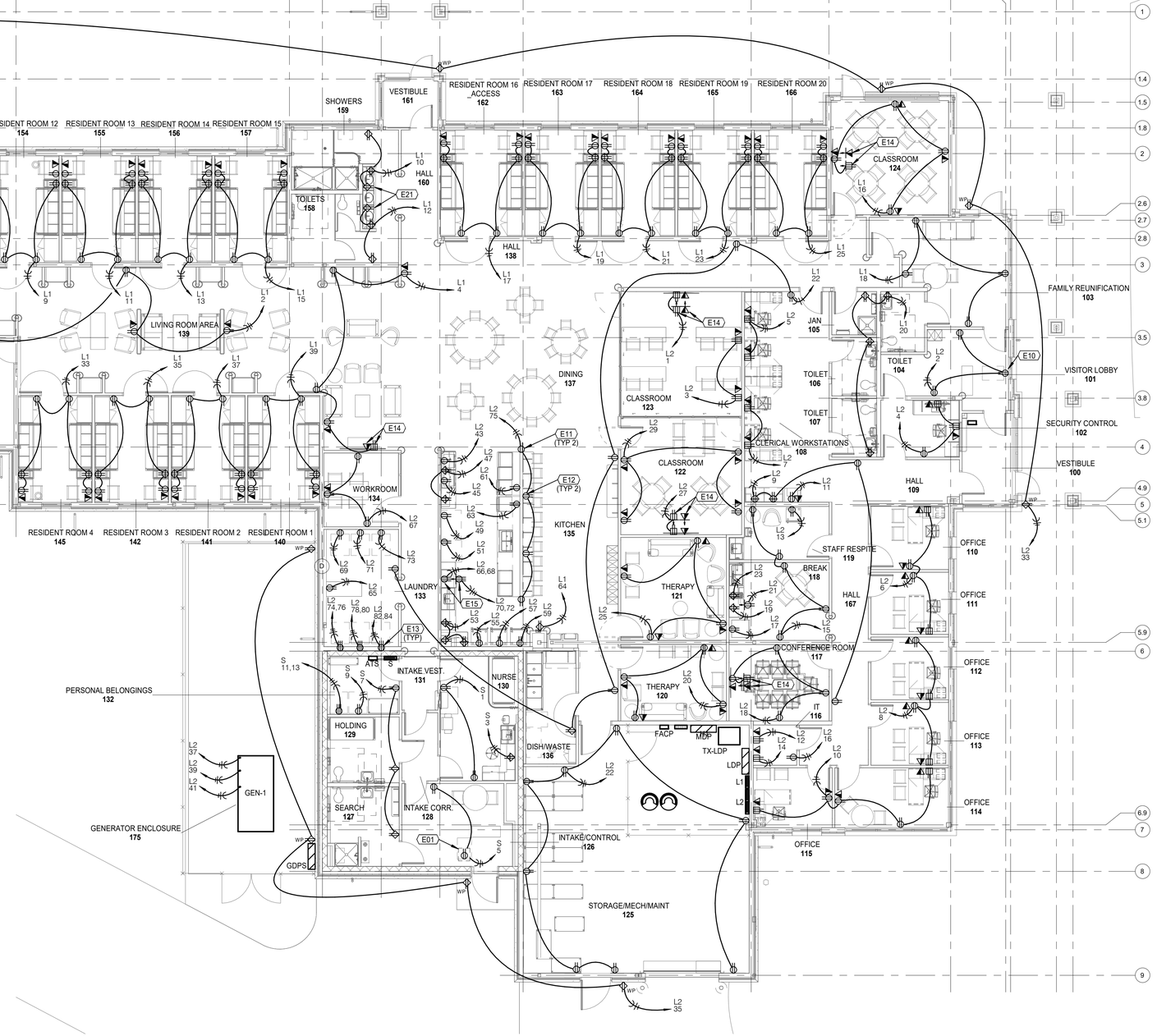
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MAINTENANCE SHED - POWER
SCALE: 1/8" = 1'-0"



FIRST FLOOR - POWER
SCALE: 1/8" = 1'-0"

E FLOOR PLAN NOTES

E01	CEILING MOUNTED RECEPTACLE FOR METAL DETECTOR. VERIFY INSTALL REQUIREMENTS WITH ARCHITECT.
E10	COORDINATE EXACT LOCATION OF ROUGH-IN WITH METAL DETECTOR.
E11	INSTALL DEVICE IN END OF ISLAND IN HORIZONTAL ORIENTATION 6" BELOW COUNTER.
E12	INSTALL DEVICE IN HORIZONTAL ORIENATION 6" BELOW COUNTER IN KNEE WALL.
E13	PROVIDE A 30A/208V RECEPTACLE TO MATCH DRYER PLUG TYPE.
E14	COORDINATE ROUGH-IN FOR DISPLAY WITH AV VENDOR.
E15	PROVIDE A 50A/208V RECEPTACLE TO MATCH OVEN PLUG TYPE.
E21	RECEPTACLE FOR HARDWIRED LAVATORY FAUCETS. INSTALL RECEPTACLE HIGH UNDER COUNTERTOP. COORDINATE ELEVATION WITH ARCHITECT.

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FIRST FLOOR - POWER

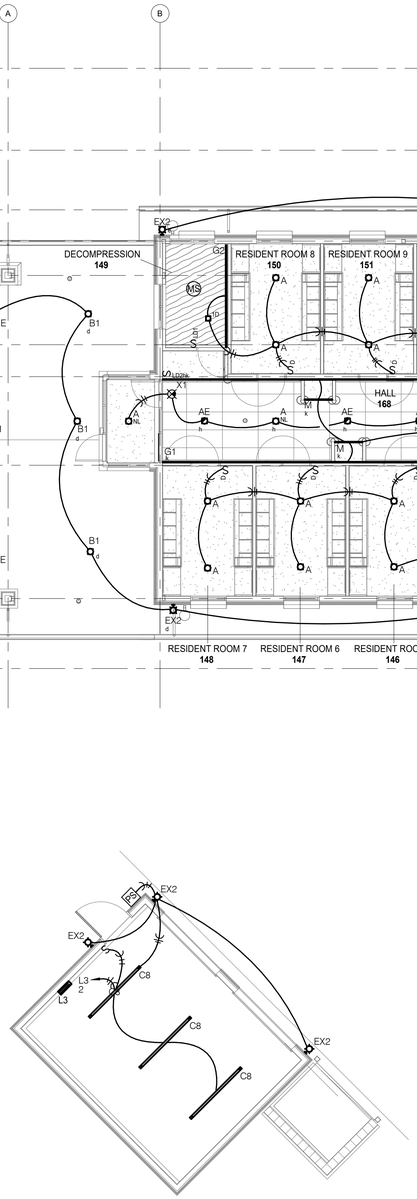
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MAINTENANCE SHED - LIGHTING
SCALE: 1/8" = 1'-0"

FIRST FLOOR - LIGHTING
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

E04 INSTALL LIGHTS PARALLEL TO STRUCTURE ABOVE.

E24 OVERRIDE SWITCH FOR PHOTOCELL CONTROLLED SITE LIGHTING. RE: MEP ROOF PLAN FOR PHOTOCELL LOCATION.

E25 COVE LIGHT TO END WITH CEILING SOFFIT AT KITCHEN HOOD AND RESUME AT THE OTHER SIDE. REFER TO ARCHITECTURAL PLANS FOR EXACT DETAILS.

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FIRST FLOOR - LIGHTING

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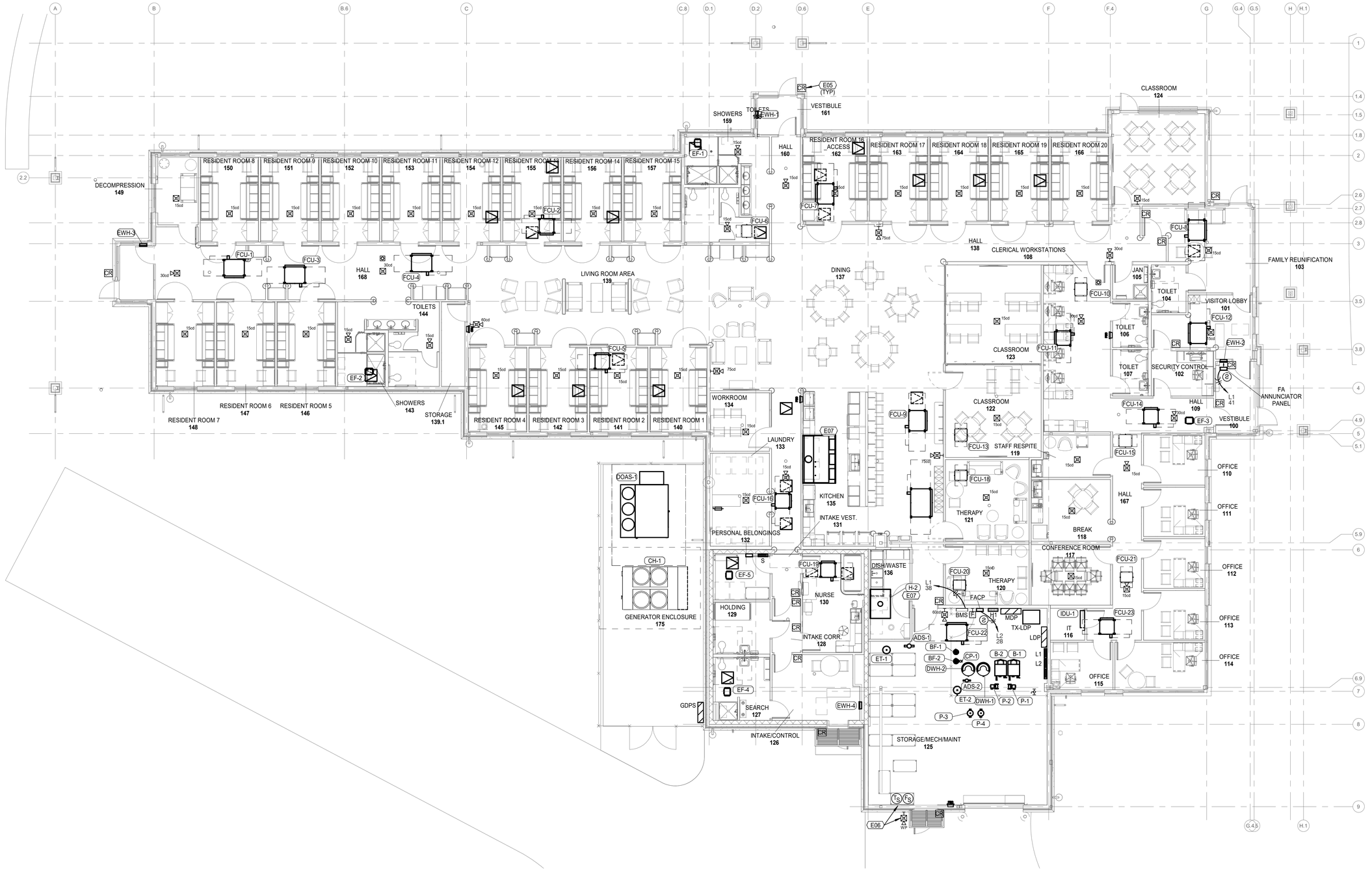
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FIRST FLOOR - SYSTEMS

SCALE: 1/8" = 1'-0"

E FLOOR PLAN NOTES

E05 COORDINATE ROUGH-IN FOR CARD READER WITH DOOR HARDWARE SCHEDULE.

E06 COORDINATE TAMPER AND FLOW SWITCHES AND ALARM NOTIFICATION DEVICE ABOVE SIAMESE CONNECTION WITH FIRE SPRINKLER CONTRACTOR.

E07 MAKE 120 VOLT POWER CONNECTION TO HOOD. INTERLOCK HOOD CONTROLS WITH MAKE-UP AIR UNIT, EXHAUST EQUIPMENT AND ANSUL SYSTEM. INTEGRATE ANSUL SYSTEM INTO FIRE ALARM SYSTEM.

GENERAL NOTES - SYSTEMS

A. REFERENCE MEP SHEETS, CONNECTION SCHEDULES AND PANEL SCHEDULES FOR POWER REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

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SHEET TITLE:
FIRST FLOOR - SYSTEMS

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E-401

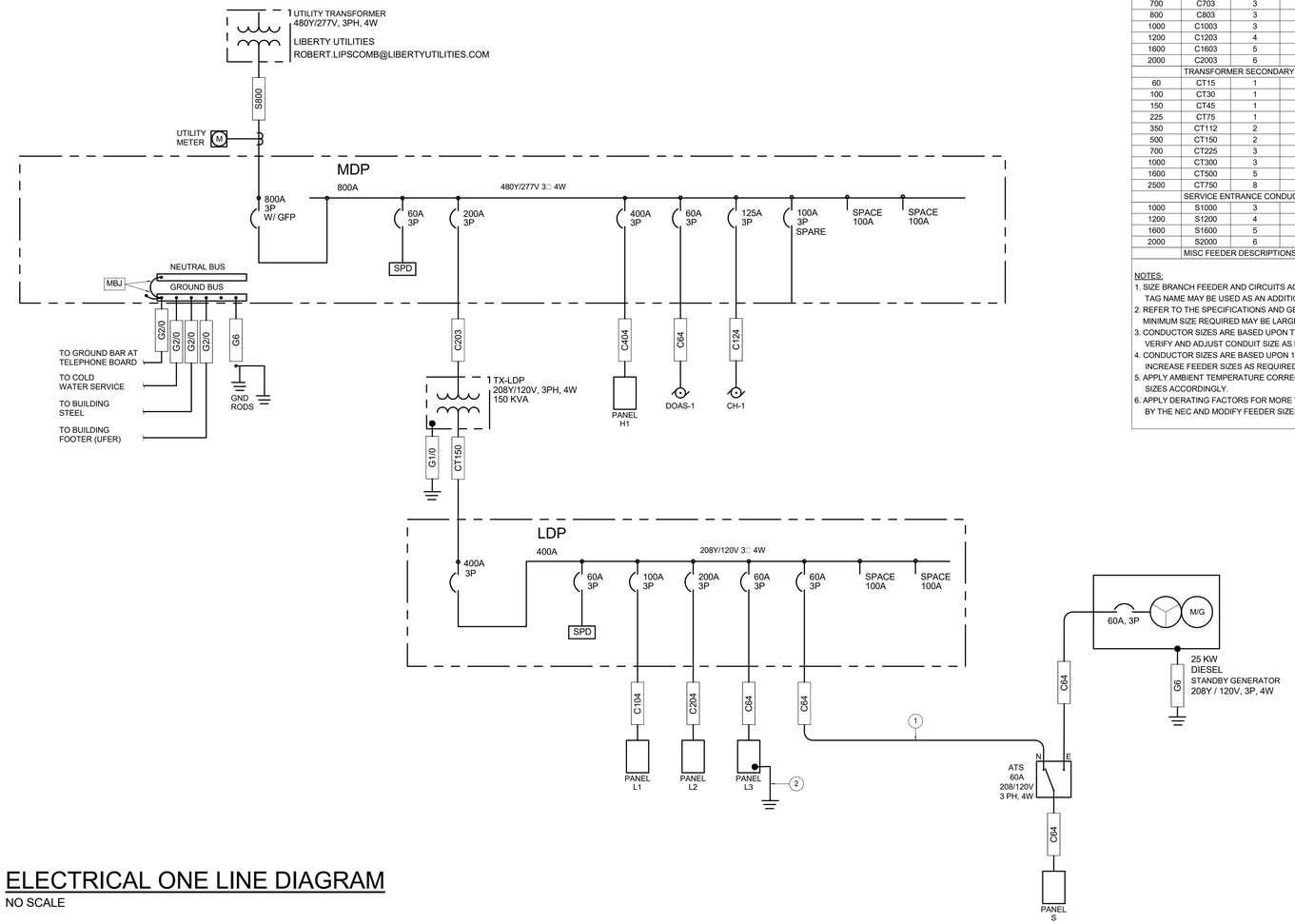
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ELECTRICAL ONE LINE DIAGRAM
NO SCALE

ⓧ ONE LINE DIAGRAM PLAN NOTES

1. FEEDER TO BE ROUTED UNDERGROUND.
2. REFER TO 'MAINTENANCE SHED GROUNDING DETAIL' FOR GROUNDING REQUIREMENTS.

FEEDER SCHEDULE - COPPER

	3-WIRE W/ GROUND					4-WIRE W/ GROUND				
CIRCUIT AMPS	TAG NAME	NUMBER SETS	PHASE / NEUTRAL CONDUCTORS	EQUIPMENT GROUND	CONDUIT SIZE	TAG NAME	NUMBER SETS	PHASE / NEUTRAL CONDUCTORS	EQUIPMENT GROUND	CONDUIT SIZE
110	C113	1	3 #1	#6	1.25"	C114	1	4 #1	#6	1.5"
125	C123	1	3 #1	#6	1.25"	C124	1	4 #1	#6	1.5"
150	C153	1	3 #1/0	#6	1.5"	C154	1	4 #1/0	#6	2"
175	C173	1	3 #2/0	#6	2"	C174	1	4 #2/0	#6	2"
200	C203	1	3 #3/0	#6	2"	C204	1	4 #3/0	#6	2"
225	C223	1	3 #4/0	#4	2"	C224	1	4 #4/0	#4	2.5"
250	C253	1	3 #250	#4	2.5"	C254	1	4 #250	#4	2.5"
300	C303	1	3 #350	#4	2.5"	C304	1	4 #350	#4	3"
350	C353	1	3 #500	#3	3.5"	C354	1	4 #500	#3	3.5"
400	C403	2	3 #3/0	#3	2.5"	C404	2	4 #3/0	#3	2.5"
450	C453	2	3 #4/0	#2	2.5"	C454	2	4 #4/0	#2	2.5"
500	C503	2	3 #250	#2	2.5"	C504	2	4 #250	#2	2.5"
600	C603	2	3 #350	#1	2.5"	C604	2	4 #350	#1	3"
700	C703	3	3 #250	#1/0	2.5"	C704	3	4 #250	#1/0	3"
800	C803	3	3 #300	#1/0	2.5"	C804	3	4 #300	#1/0	3"
1000	C1003	3	3 #400	#2/0	3"	C1004	3	4 #400	#2/0	3"
1200	C1203	4	3 #350	#3/0	3"	C1204	4	4 #350	#3/0	3"
1600	C1603	5	3 #400	#4/0	3"	C1604	5	4 #400	#4/0	3"
2000	C2003	6	3 #400	#250	3"	C2004	6	4 #400	#250	3"
	TRANSFORMER SECONDARY FEEDERS									
60	CT15	1	4 #4	#8	1.25"					
100	CT30	1	4 #1	#6	1.5"					
150	CT45	1	4 #1/0	#6	2"					
225	CT75	1	4 #4/0	#2	2.5"					
350	CT112	2	4 #3/0	#2	2"					
500	CT150	2	4 #250	#1/0	2.5"					
700	CT225	3	4 #250	#2/0	3"					
1000	CT300	3	4 #400	#3/0	3"					
1600	CT500	5	4 #400	#250	3"					
2500	CT750	8	4 #400	#400	4"					
	SERVICE ENTRANCE CONDUCTORS									
1000	S1000	3	4 #400	-	3"					
1200	S1200	4	4 #350	-	3"					
1600	S1600	5	4 #400	-	4"					
2000	S2000	6	4 #400	-	4"					
	MISC FEEDER DESCRIPTIONS									

NOTES:
1. SIZE BRANCH FEEDER AND CIRCUITS ACCORDING TO THE CIRCUIT BREAKER / FUSE SIZE AND THIS SCHEDULE. TAG NAME MAY BE USED AS AN ADDITIONAL REFERENCE.
2. REFER TO THE SPECIFICATIONS AND GENERAL NOTES FOR MINIMUM CONDUIT SIZE REQUIREMENTS. MINIMUM SIZE REQUIRED MAY BE LARGER THAN SHOWN IN THIS SCHEDULE.
3. CONDUCTOR SIZES ARE BASED UPON TYPE THHN/THWN CONDUCTORS WITH EMT OR SCHEDULE 40 PVC CONDUIT. VERIFY AND ADJUST CONDUIT SIZE AS REQUIRED FOR OTHER TYPES OF CONDUIT.
4. CONDUCTOR SIZES ARE BASED UPON 100 FEET OR LESS IN LENGTH. IF ONE WAY CIRCUIT IS OVER 100 FEET, INCREASE FEEDER SIZES AS REQUIRED FOR VOLTAGE DROP.
5. APPLY AMBIENT TEMPERATURE CORRECTION FACTORS AS REQUIRED BY THE NEC AND MODIFY FEEDER SIZES ACCORDINGLY.
6. APPLY DERATING FACTORS FOR MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY AS REQUIRED BY THE NEC AND MODIFY FEEDER SIZES ACCORDINGLY.

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ELECTRICAL ONE LINE DIAGRAM

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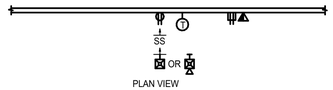
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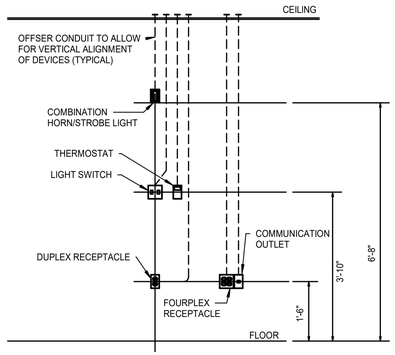
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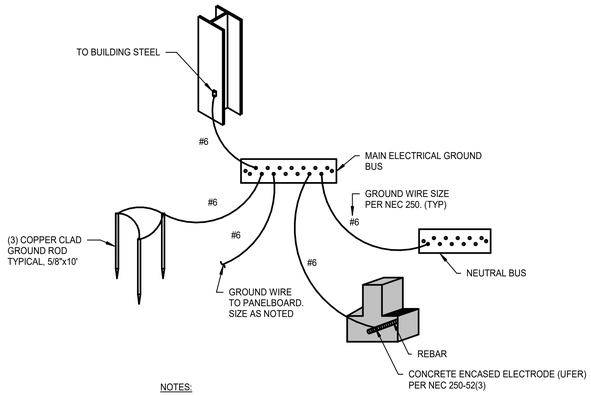
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NOTE: ALIGN ALL DEVICES VERTICALLY. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL, CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COST ASSOCIATED WITH THE RELOCATION(S).

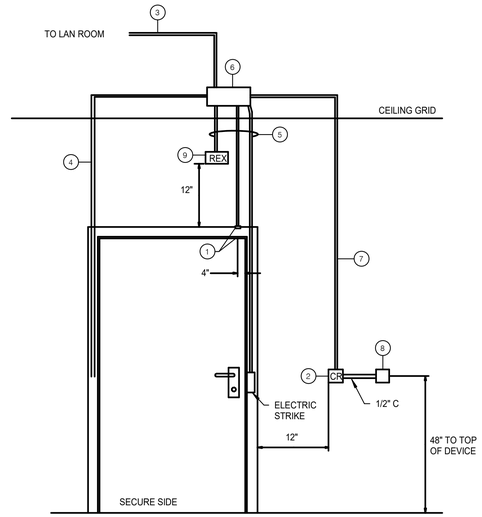
TYPICAL WALL MOUNTING DEVICE DETAIL
NOT TO SCALE



NOTES:

1. ALL WIRING SHALL BE TYPE THHN/THWN.
2. MAIN GROUP RODS ARE TO BE LOCATED AT SERVICE ENTRANCE WITH SIZE AND QUANTITY PER SPECIFICATIONS.

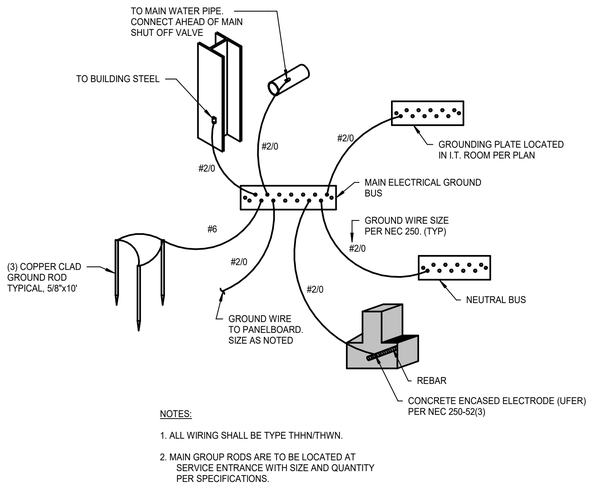
MAINTENANCE SHED GROUNDING DETAIL
NOT TO SCALE



CARD ACCESS NOTES:

1. PRE-DRILL 3/4" DIAMETER HOLE THROUGH HEADER AND DOOR.
2. PROVIDE 2"x4" SINGLE GANG JUNCTION BOX FOR CARD READER.
3. PROVIDE 1" EMPTY CONDUIT HOEMRUN WITH PULL STRING WHERE CEILING IS NOT ACCESSIBLE. ROUTE BACK TO LAN ROOM AND BUSH.
4. EXTEND 1/2" CONDUIT WITH PULL STRING TO MIDDLE HINGE (FOR TOUCHBAR).
5. PROVIDE 1/2" CONDUIT WITH PULL STRING.
6. PROVIDE 8"x8"x4" JUNCTION BOX WITH BLANK COVER.
7. PROVIDE 3/4" CONDUIT WITH TWO PULL STRINGS.
8. PROVIDE 2"x4" SINGLE GANG JUNCTION BOX FOR AUTOMATIC DOOR OPENER WHERE SHOWN ON PLANS.
9. PROVIDE 2"x4" SINGLE GANG JUNCTION BOX FOR REX WHERE THERE IS AN EXIT SIGN, MOUNT REX BELOW EXIT SIGN.

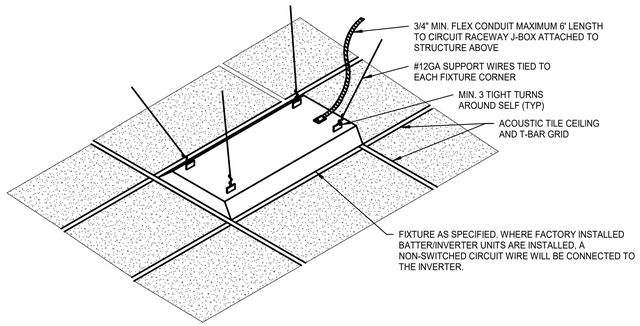
ROUGH-IN FOR CARD ACCESS SYSTEM DETAIL
NOT TO SCALE



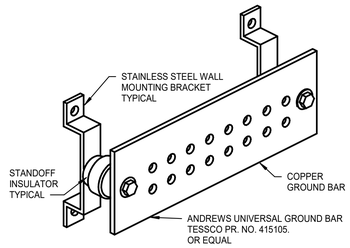
NOTES:

1. ALL WIRING SHALL BE TYPE THHN/THWN.
2. MAIN GROUP RODS ARE TO BE LOCATED AT SERVICE ENTRANCE WITH SIZE AND QUANTITY PER SPECIFICATIONS.

MAIN SERVICE ENTRANCE GROUNDING DETAIL
NOT TO SCALE



LIGHT FIXTURE MOUNTING AND BRACING DETAIL
NOT TO SCALE



GROUND BAR DETAIL
NOT TO SCALE

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L|F+a Project No. 26.8027.00

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MIKE KEHOE, GOVERNOR

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF Corrections

JOPLIN COMMUNITY SUPERVISION CENTER

2303 WEST 20TH STREET
JOPLIN, MO 64801

PROJECT # C2512-01
SITE # 7033
ASSET # 9327033001

Revision

Number	Revision Date	Revision Description

ISSUE DATE: September 30, 2026

CAD DWG FILE:
DRAWN BY: MDA
CHECKED BY: GJF
DESIGNED BY: MDA

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E-601

September 30, 2026

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BRANCH CIRCUIT PANELBOARD H1

BUS AMPS: 400A | SCCR: PER STUDY | FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD
MAIN SIZE / TYPE: MLO | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 480Y/277V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: STOR/MECH 125 | OPTIONS: INTEGRAL SPD

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #
1	FCU-1, FCU-3	15	1	2,105	3,857			1,752	1	20	LTG; EXTERIOR POLE LIGHTING	2
3	FCU-2, FCU-5	15	1	2,105		2,105		0	1	20	LTG; MONUMENT SIGNAGE	4
5	FCU-4	15	1	1,607			1,607	0	1	20	LTG; EAST RESIDENT ROOMS	6
7	FCU-6, FCU-7	15	1	1,496	1,496			0	1	20	LTG; WEST RESIDENT ROOMS	8
9	FCU-8	15	1	1,607		1,607		0	1	20	LTG; COMMON AREAS	10
11	FCU-9, FCU-16	15	1	2,105			2,105	0	1	20	LTG; ADMIN. CLASSROOMS	12
13	FCU-10, FCU-11	15	1	1,496	1,496			0	1	20	LTG; EXTERIOR WALL FIXTURES	14
15	FCU-12, FCU-14	15	1	2,105		2,105		0	1	20	SPARE	16
17	FCU-13, FCU-15, FCU-18	15	1	1,330			1,330	0	1	20	SPARE	18
19	FCU-19	15	1	1,052	1,052			0	1	20	SPARE	20
21	FCU-20, FCU-22	15	1	2,050		2,050		0	1	20	SPARE	22
23	FCU-21, FCU-23	15	1	1,496			2,437	941				24
25				1,191	2,132			941	3	15	P-3	26
27	FCU-17	15	3	1,191		2,132		941				28
29				1,191			2,132	941				30
31				360	1,301			941	3	15	P-4	32
33	MAU-1	15	3	360		1,301		941				34
35				360			4,360	4,000	1	20	EWH-1	36
37				582	4,582			4,000	1	20	EWH-2	38
39	KEF-1	15	3	582		4,582		4,000	1	20	EWH-3	40
41				582			582	0	1	20	SPARE	42

PER PHASE CONNECTED - VA: 15,916 | 15,882 | 14,553
PER PHASE CONNECTED - AMPS: 57 | 57 | 53

TOTAL CONNECTED - VA: 46,351
TOTAL CONNECTED - AMPS: 56
TOTAL DEMAND - VA: 34,789
NEC TOTAL DEMAND - AMPS: 42

NOTES:

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

BRANCH CIRCUIT PANELBOARD L1

BUS AMPS: 100A | SCCR: PER STUDY | FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD
MAIN SIZE / TYPE: MLO | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 208Y/120V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: STOR/MECH 125 | OPTIONS:

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
1	REC; RESIDENT ROOM 8	20	1	1,080	2,160			1,080	1	20	REC; HALL 168, LVN RM 139	2	
3	REC; RESIDENT ROOM 9	20	1	1,080		2,160		1,080	1	20	REC; DINING 137	4	
5	REC; RESIDENT ROOM 10	20	1	1,080			1,440	360	1	20	REC; TOILETS 144	6	
7	REC; RESIDENT ROOM 11	20	1	1,080	1,440			360	1	20	REC; TOILETS 144	8	
9	REC; RESIDENT ROOM 12	20	1	1,080		1,440		360	1	20	REC; TOILETS 158	10	
11	REC; RESIDENT ROOM 13	20	1	1,080			1,440	360	1	20	REC; TOILETS 158	12	
13	REC; RESIDENT ROOM 14	20	1	1,080	1,620			540	1	20	REC; DECOMPRESSION	14	
15	REC; RESIDENT ROOM 15	20	1	1,080		2,160		1,080	1	20	REC; CLASSROOM 124	16	
17	REC; RESIDENT ROOM 16	20	1	1,080			1,800	720	1	20	REC; FAMILY REUNIFICATION	18	
19	REC; RESIDENT ROOM 17	20	1	1,080	1,800			720	1	20	REC; TOILETS, JAN CLST	20	
21	REC; RESIDENT ROOM 18	20	1	1,080		1,980		900	1	20	REC; DINING 137	22	
23	REC; RESIDENT ROOM 19	20	1	1,080			1,580	500	1	20	FACP	24	FA
25	REC; RESIDENT ROOM 20	20	1	1,080	1,580			500	1	20	FAAP	26	FA
27	REC; RESIDENT ROOM 7	20	1	1,080		1,080		0	1	20	SPARE	28	
29	REC; RESIDENT ROOM 6	20	1	1,080			1,130	50	1	20	CP-1	30	
31	REC; RESIDENT ROOM 5	20	1	1,080	1,580			500	1	20	DWH-1	32	
33	REC; RESIDENT ROOM 4	20	1	1,080		1,580		500	1	20	DWH-2	34	
35	REC; RESIDENT ROOM 3	20	1	1,080			1,580	500	1	20	HOOD CONTROL PANEL	36	
37	REC; RESIDENT ROOM 2	20	1	1,080	1,580			500	1	20	BMS CONTROL PANEL	38	
39	REC; RESIDENT ROOM 1	20	1	1,080		2,580		1,500	1	20	MISC; CHILLER BUFF TNK HEATER	40	
41	SPARE	20	1	0			1,500	1,500	1	20	MISC; CHILLER EVAP HEATER	42	

PER PHASE CONNECTED - VA: 11,760 | 12,980 | 10,470
PER PHASE CONNECTED - AMPS: 98 | 108 | 87

TOTAL CONNECTED - VA: 35,210
TOTAL CONNECTED - AMPS: 98
TOTAL DEMAND - VA: 26,630
NEC TOTAL DEMAND - AMPS: 74

NOTES:

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

BRANCH CIRCUIT PANELBOARD L2

BUS AMPS: 225A | SCCR: PER STUDY | FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD
MAIN SIZE / TYPE: MLO | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 208Y/120V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: STOR/MECH 125 | OPTIONS:

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #	
1	REC; CLASSROOM 123	20	1	720	1,580			860	1	20	REC; VISITOR LOBBY	2	
3	REC; CLASSROOM 123	20	1	720		1,260		540	1	20	REC; SECURITY CONTROL	4	
5	REC; WORKSTATIONS	20	1	720			1,800	1,080	1	20	REC; OFFICE 110 111	6	
7	REC; WORKSTATIONS	20	1	720	1,800			1,080	1	20	REC; OFFICE 112 113	8	
9	REC; WORKSTATION COUNTER	20	1	720		1,800		1,080	1	20	REC; OFFICE 114 115	10	
11	MISC; WORKSTATION PRINTER	20	1	1,200			1,560	360	1	20	REC; IT ROOM	12	
13	REF; STAFF RESPITE FRIDGE	20	1	1,000	1,360			360	1	20	REC; IT ROOM	14	
15	REC; STAFF RESPITE / BRK RM	20	1	900		1,080		180	1	20	REC; IT ROOM	16	
GF 17	REF; BREAKROOM FRIDGE	20	1	1,000			2,080	1,080	1	20	REC; CONFERENCE ROOM 117	18	
19	REC; BREAKROOM COUNTER	20	1	180	900			720	1	20	REC; THERAPY	20	
21	MISC; BREAKROOM MICROWAVE	20	1	1,200		2,640		1,440	1	20	REC; STORAGE MAINT.	22	
GF 23	MISC; BREAKROOM COFFEE	20	1	1,200			1,250	50	1	15	H-1 CONTROL PANEL	24	
25	REC; THERAPY	20	1	720	770			50	1	15	H-2 CONTROL PANEL	26	
27	REC; CLASSROOM 122	20	1	720		770		50	1	20	FIRE ALARM CONTROL PANEL	28	FA
29	REC; CLASSROOM 122	20	1	720			770	50	1	15	B-1	30	
31	REC; ROOFTOP GFI	20	1	360	410			50	1	15	B-2	32	
33	REC; EXTERIOR RECEPTACLES	20	1	900		2,076		1,176	1	20	P-1	34	
35	REC; EXTERIOR RECEPTACLES	20	1	720			1,896	1,176	1	20	P-2	36	
37	MISC; GENSET BATT CHARGER	20	1	500	764			264	1	15	EF-1	38	
39	MISC; GENSET BATT WARMER	20	1	1,200		1,464		264	1	15	EF-2	40	
41	MISC; GENSET ACCESSORIES	20	1	50			314	264	1	15	EF-3	42	
SECTION: 2													
GF 43	REC; KITCHEN MICROWAVE	20	1	1,200	1,200			0	1	15	DWH-1	44	
GF 45	REC; KITCHEN MICROWAVE	20	1	1,200		1,200		0	1	15	DWH-2	46	
47	REC; COUNTERTOP RCPTS	20	1	360			1,056	696	1	15	CP-1	48	
GF 49	REC; KITCHEN RANGE	20	1	50	100			50	1	15	KEF-1	50	
GF 51	REC; KITCHEN GRIDDLE	20	1	50		100		50	1	15	SPARE	52	
53	REC; COUNTERTOP RCPTS	20	1	540			1,236	696	1	20	SPARE	54	
GF 55	REC; KITCHEN FRIDGE	20	1	1,000	1,000			0	1	20	SPARE	56	
GF 57	REC; KITCHEN FRIDGE	20	1	1,000		1,000		0	1	20	SPARE	58	
GF 59	REC; KITCHEN FRIDGE	20	1	1,000			1,000	0	1	20	SPARE	60	
GF 61	REC; KITCHEN DISHWASHER	20	1	1,000	1,000			0	1	20	SPARE	62	
GF 63	REC; KITCHEN DISHWASHER	20	1	1,000		1,500		500	1	20	REC; BOTTLE FILLER	64	
65	REC; IRON	20	1	1,000			5,000	4,000	2	50	KITCHEN OVEN	66	
67	REC; WORKROOM 134	20	1	540	4,540			4,000				68	
69	REC; LAUNDRY 133 WASHER	20	1	1,200		5,200		4,000	2	50	KITCHEN OVEN	70	
71	REC; LAUNDRY 133 WASHER	20	1	1,200			5,200	4,000				72	
73	REC; LAUNDRY 133 WASHER	20	1	1,200	3,575			2,375	2	30	REC; LAUNDRY 133 DRYER	74	
75	REC; KITCHEN ISLAND	20	1	720		3,095		2,375				76	
77	SPARE	20	1	0			2,375	2,375	2	30	REC; LAUNDRY 133 DRYER	78	
79	SPARE	20	1	0	2,375			2,375				80	
81	IDU / ODU-1	20	2	1,536		3,911		2,375	2	30	REC; LAUNDRY 133 DRYER	82	
83				1,536			3,911	2,375				84	

PER PHASE CONNECTED - VA: 21,374 | 27,096 | 29,448
PER PHASE CONNECTED - AMPS: 178 | 226 | 245

TOTAL CONNECTED - VA: 77,918
TOTAL CONNECTED - AMPS: 216
TOTAL DEMAND - VA: 47,938
NEC TOTAL DEMAND - AMPS: 133

NOTES:

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

BRANCH CIRCUIT PANELBOARD L3

BUS AMPS: 100A | SCCR: PER STUDY | FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD
MAIN SIZE / TYPE: 60A MCB | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 208Y/120V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: MAINT SHED | OPTIONS:

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #
1	REC; MAINT SHED EXTERIOR RCPTS	20	1	360	1,360			1,000	1	20	LTG; MAINT SHED LIGHTING	2
3	REC; MAINT SHED INTERIOR RCPTS.	20	1	900		900		0	1	20	SPARE	4
5	SPARE	20	1	0			0	0	1	20	SPARE	6
7	SPARE	20	1	0	0			0	1	20	SPARE	8
9	SPARE	20	1	0		0		0	1	20	SPARE	10
11	SPARE	20	1	0			0	0	1	20	SPARE	12
13	SPARE	20	1	0	0			0	1	20	SPARE	14
15	SPARE	20	1	0		0		0	1	20	SPARE	16
17	SPARE	20	1	0			0	0	1	20	SPARE	18

PER PHASE CONNECTED - VA: 1,360 | 900 | 0
PER PHASE CONNECTED - AMPS: 11 | 8 | 0

TOTAL CONNECTED - VA: 2,260
TOTAL CONNECTED - AMPS: 6
TOTAL DEMAND - VA: 2,510
NEC TOTAL DEMAND - AMPS: 7

NOTES:

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

DISTRIBUTION PANELBOARD LDP

BUS AMPS: 400A | SCCR: PER STUDY | FULLY RATED | TYPE: DISTRIBUTION PANELBOARD
MAIN SIZE / TYPE: 400A | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 208Y/120V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: STOR/MECH 125 | OPTIONS: INTEGRAL SPD

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #
1				11,760	13,120			1,360				2
3	PANEL 'L1'	OL	3	12,980		13,880		900	3	OL	PANEL 'L3'	4
5				10,470			10,470	0				6
7				21,374	26,919			5,545				8
9	PANEL 'L2'	OL	3	27,096		30,696		3,600	3	OL	ATS (PANEL 'S')	10
11				29,448			32,403	2,955				12
13				0	0			0				14
15	SPACE	OL	3	0		0		0	3	OL	SPACE	16
17				0			0	0				18
19				0	0			0				20
21	SPACE	OL	3	0		0		0	3	OL	SPACE	22
23				0			0	0				24

PER PHASE CONNECTED - VA: 40,039 | 44,576 | 42,873
PER PHASE CONNECTED - AMPS: 334 | 371 | 357

TOTAL CONNECTED - VA: 127,488
TOTAL CONNECTED - AMPS: 354
TOTAL DEMAND - VA: 81,411
NEC TOTAL DEMAND - AMPS: 226

NOTES:
OL = REFER TO ONE-LINE DIAGRAM

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

PANELBOARD MDP

BUS AMPS: 800A | SCCR: PER STUDY | FULLY RATED | TYPE: DISTRIBUTION PANELBOARD
MAIN SIZE / TYPE: MLO | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 480Y/277V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: STOR/MECH 125 | OPTIONS: INTEGRAL SPD, SER

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #
1				11,916	11,916			0				2
3	PANEL 'H1'	OL	3	11,882		11,882		0	3	OL	SPD	4
5				10,553			10,553	0				6
7				40,039	51,775			11,736				8
9	PANEL 'LDP' VIA 'TX-LDP'	OL	3	43,040		54,776		11,736	3	OL	DOAS-1	10
11				41,337			53,073	11,736				12
13				0	26,158			26,158				14
15	SPARE	OL	3	0		26,158		26,158	3	OL	CH-1	16
17				0			26,158	26,158				18
19				0	0			0				20
21	SPACE ONLY	OL	3	0		0		0	3	OL	SPACE ONLY	22
23				0			0	0				24
25				0	0			0				26
27	SPACE ONLY	OL	3	0		0		0	3	OL	SPACE ONLY	28
29				0			0	0				30

PER PHASE CONNECTED - VA: 89,849 | 92,816 | 89,784
PER PHASE CONNECTED - AMPS: 324 | 335 | 324

TOTAL CONNECTED - VA: 272,449
TOTAL CONNECTED - AMPS: 328
TOTAL DEMAND - VA: 218,267
NEC TOTAL DEMAND - AMPS: 263

NOTES:
OL = REFER TO ONE-LINE DIAGRAM

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

BRANCH CIRCUIT PANELBOARD S

BUS AMPS: 100A | SCCR: PER STUDY | FULLY RATED | TYPE: BRANCH CIRCUIT PANELBOARD
MAIN SIZE / TYPE: 50A MCB | NEMA TYPE: 1 | MANUFACTURER:
VOLTS/PHASE: 208Y/120V, 3PH, 4W | MOUNTING: SURFACE | MFG MODEL:
SECTION: 1 | LOCATION: STORM SHELTER | OPTIONS:

CKT #	CIRCUIT DECRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DECRIPTION	CKT #
1	REC; NURSE	20	1	360	630			270	1	20	LTG; SHELTER LIGHTS	2
3	REC; NURSE COUNTER	20	1	180		400		220	1	15	EF-4	4
5	REC; INTAKE	20	1	360			580	220	1	15	EF-5	6
7	REC; SEARCH, HOLDING, PER BEL.	20	1	540	2,540			2,000	2	25	EWH-4	8
9	REC; WASHER	20	1	1,200		3,200		2,000				10
11	REC; DRYER	30	2	2,375			2,375	0	1	20	SPARE	12
13				2,375	2,375			0	1	20	SPARE	14
15	SPARE	20	1	0		0		0	1	20	SPARE	16
17	SPARE	20	1	0			0	0	1	20	SPARE	18

PER PHASE CONNECTED - VA: 5,545 | 3,600 | 2,955
PER PHASE CONNECTED - AMPS: 46 | 30 | 25

TOTAL CONNECTED - VA: 12,100
TOTAL CONNECTED - AMPS: 34
TOTAL DEMAND - VA: 14,355
NEC TOTAL DEMAND - AMPS: 40

NOTES:

*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS

PANELBOARD SCHEDULE ABBREVIATIONS

200N	200 PERCENT NEUTRAL
AFI	COMBINATION ARC FAULT CIRCUIT INTERRUPTER
APM	ADVANCED POWER METER
CB	CIRCUIT BREAKER
C#	CONTROL CIRCUIT WITH CONTACTOR #
CKT	CIRCUIT
DF	DUAL FUNCTION GFCI AND AFI
E	EXISTING CIRCUIT BREAKER
EM	EMERGENCY CIRCUIT - RED HANDLE LOCK ON
ER	ENERGY REDUCTION MAINTENANCE SETTING SWITCH
ET	ENERGY TRIP CIRCUIT BREAKER
FA	FIRE ALARM CIRCUIT - RED HANDLE LOCK ON
FTL	FEED THROUGH LUGS
GF	GROUND FAULT CIRCUIT INTERRUPTER (4-6mA)
GFP	GROUND FAULT PROTECTION
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT (30mA)
HL	HANDLE LOCK ON / OFF
HT	HANDLE TIE
IG	ISOLATED GROUND
KK	KIRK KEY OPERATION
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
N	NEW CIRCUIT BREAKER
NE	NEW LOAD CONNECTED TO EXISTING CIRCUIT BREAKER
P	POLES
PFR	PHASE FAILURE RELAY
PH	PHASE
PM	POWER METER
PQM	POWER QUALITY METER
RE:	REFERENCE
RP#	CONTROL CIRCUIT WITH RELAY PANEL #
SC	SELECTIVE COORDINATION REQUIRED
SCCR	SHORT CIRCUIT CURRENT RATING
SER	SERVICE ENTRANCE RATED
SFB	SUB-FEED BREAKER
SB	SPARE BREAKER AFTER DEMOLITION
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP
SV	SEPARATE VERTICAL SECTION
TM	THERMAL MANAGEMENT
UV	UNDER VOLTAGE TRIP
VA	VOLT-AMPS
W	WIRE
W/	WITH

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LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	LIGHT SOURCE NOMINAL LUMENS CCT CRI	WATTS VOLTS	DIMMING PROTOCOL	VA	MOUNTING	DESCRIPTION	SPECIFIC NOTES
A	FAIL SAFE FLD4CX-15-D010-FEU4C-1020-90-30--F4LCXV-M-2-MW EQUAL: LIFESHIELD LTR , WILLIAMS V4DR , NEWSTAR HIGH ABUSE	INTEGRAL LED 1500 LUMENS 3000 K 80 CRI	16.6 UNV	1% 0-10V	18	RECESSED CEILING	LED VANDAL RESISTANT 4" DOWNLIGHT. TORX T10 SCREWS FOR VANDAL AND TAMPER RESISTANT INSTALLATION. NON-REMOVABLE UPPER LENS. WHITE FLANGE AND REFLECTOR FINISH.	
B1	PORTFOLIO LDA6A-15-90-35-D010-[EMBOD]-LAR35FL-6LAL1-H EQUAL: PRESCOLITE LFR, WILLIAMS 6AR, GOTHAM IVO	INTEGRAL LED 1500 LUMENS 3500 K 90 CRI	21 UNV	1% 0-10V	23	RECESSED CEILING	LED ADJUSTABLE 6" DOWNLIGHT. SPUN ALUMINUM HOUSING AND LENS TO PROVIDE WET LOCATION LISTING. 362 DEGREE ROTATION WITH 45 DEGREE ELEVATION ADJUSTMENT.	
C1 C1E	METALUX 4SNX-SL3-SLW-UNV-CC83-CD-1-[EL10W]-PAF EQUAL: COLUMBIA MPS , WILLIAMS FS, LITHONIA CSS	INTEGRAL LED 3959 LUMENS 3500 K 80 CRI	33.5 UNV	10% 0-10V	37	SUSPENDED CEILING	LED LINEAR STRIP LIGHT WITH SQUARE DIFFUSER. SELECTABLE CCT AND LUMEN OUTPUT.	
C2 C2E	METALUX 8TSNX-SL3-SLW-UNV-CC83-CD-1-[EL10W]-PAF EQUAL: COLUMBIA MPS , WILLIAMS FS, LITHONIA CSS	INTEGRAL LED 7724 LUMENS 3500 K 80 CRI	66.9 UNV	10% 0-10V	74	SUSPENDED CEILING	SIMILAR TO 'C1' BUT IN 8' LENGTH	
D1 D1E	HALO COMMERCIAL HCC6S-30-D010-XX-HM6C-3040-835-61-MD-H EQUAL: PRESCOLITE LTC , HELIOS 6" ROUND , GOTHAM IVO	INTEGRAL LED 3000 LUMENS 3500 K 80 CRI	28.6 UNV	1% 0-10V	32	SURFACE CEILING	6" LED SURFACE MOUNTED CYLINDER WITH SPUN ALUMINUM HOUSING. SELF FLANGED ALUMINUM REFLECTOR WITH INTEGRAL LENS.	
D2	HALO COMMERCIAL HCC6S-15-D010-XX-HM6C-0525-835-61-MD-H EQUAL: PRESCOLITE LTC , HELIOS 6" ROUND	INTEGRAL LED 1500 LUMENS 3500 K 80 CRI	14.5 UNV	1% 0-10V	16	SURFACE CEILING	SIMILAR TO 'D1' BUT LOWER LUMEN OUTPUT	
D3	TBD EQUAL: PRESCOLITE LTC , HELIOS 6" ROUND	INTEGRAL LED #### LUMENS 3500 K 80 CRI			0		TBD DECORATIVE PENDANT	
EX1	LUMARK CYL-2D-30W-PC-XX EQUAL: ILP UNIFY , LITHONIA WMCL4/6 , G LIGHTING CYLINDER	INTEGRAL LED 1631 LUMENS 4000 K 80 CRI	15 UNV	10% 0-10V	17	WALL	EXTERIOR LED WALL SCONCE WITH OPTIONAL UP/DOWN OPTICS. DIE CAST ALUMINUM HOUSING WITH LENS AND GLASS COVER.	
EX2	MCGRAW EDISON GKO-PB-2-C-740-U-T4W-XX-PBHSS EQUAL: ILP VIEWPOINT , GARDCO GEOFORM , LITHONIA WDGE2	INTEGRAL LED 8724 LUMENS 4000 K 70 CRI	57 UNV	10% 0-10V	63	WALL	EXTERIOR LED WALL PACK WITH TYPE 4 WIDE DISTRIBUTION. DIE CAST ALUMINUM HOUSING. HOUSE SIDE SHIELD TO PREVENT GLARE BACK INTO RESIDENT ROOMS.	
G1	NULITE PF2-D-FCL-3-09-L-35-UNV-D-1-1-WH-XX EQUAL: LITECONTROL 2L , LUX LUMINAIRE EOS 2.0 , ALW LIGHTPLANE+ 2R	INTEGRAL LED 900 LUMENS PER FOOT 3500 K 80 CRI	8.2 / FT UNV	1% 0-10V	9 / FT	CEILING PERIMETER	LED PERIMETER COVE LIGHT WITH EXTRUDED ALUMINUM FLANGE AND COLD ROLLED STEEL CHANNEL. THREE INCH RECESS. WHITE FINISH.	
G2	NULITE RZ4-07-L-35-UNV-D-1-1-N-F-XX EQUAL: LITECONTROL 4L , LEDALITE TRUGROOVE , ALW LIGHTPLANE+ 4R	INTEGRAL LED 700 LUMENS PER FOOT 3500 K 80 CRI	7.6 / FT UNV	1% 0-10V	8 / FT	CEILING PERIMETER	LED NARROW OPTIC PERIMETER WALL GRAZER. FLANGED WALL BACK BOX WITH OPTION TO SHIP BOX SEPARATE OF FIXTURE. COLD ROLLED STEEL PAINTED AFTER FABRICATION	
L#	NULITE RP24-B-ST-F-MW-XX-XX-L-35-UNV-D-1-1-WH-SR-W-048-XX EQUAL: LITECONTROL 2L , LEDALITE TRUGROOVE , ALW LIGHTPLANE+ 2	INTEGRAL LED #### LUMENS 3500 K 80 CRI		1% 0-10V	0	SUSPENDED STRUCTURE	LED 2" LINEAR LIGHT WITH DIRECT AND INDIRECT DISTRIBUTION.	
M	NULITE RF1-D-FF-03-L-35-UNV-D-1-1-XX-XX EQUAL: LITECONTROL 2L , LUX LUMINAIRE EOS 2.0 , ALW LIHTPLANE+ 1R	INTEGRAL LED 300 LUMENS PER FOOT 3500 K 80 CRI	2.2 / FT UNV	1% 0-10V	2.4 / FT	RECESSED	LED 1" RECESSED LINEAR LIGHT. ONE PIECE EXTRUDED ALUMINUM HOUSING	1
SL1	LUMARK PRV-CC40-D-UNV-T2-BZ EQUAL: BEACON VIPER , MIRADA MEDIUM , LITHONIA D-SERIES	INTEGRAL LED 17,172 LUMENS 4000 K 70 CRI	131 UNV	10% 0-10V	146	SITE POLE	EXTERIOR SITE LIGHTING WITH TYPE 2 DISTRIBUTION. SINGLE PIECE DIE-CAST ALUMINUM HOUSING WITH TETHERED DOOR.	
SL2	LUMARK PRV-CC40-D-UNV-T3-BZ EQUAL: BEACON VIPER , MIRADA MEDIUM , LITHONIA D-SERIES	INTEGRAL LED 17,144 LUMENS 4000 K 70 CRI	131 UNV	10% 0-10V	146	SITE POLE	SIMILAR TO 'SL1' BUT WITH TYPE 3 DISTIBUTION	
SL3	LUMARK PRV-CC40-D-UNV-T4-BZ EQUAL: BEACON VIPER , MIRADA MEDIUM , LITHONIA D-SERIES	INTEGRAL LED 17,087 LUMENS 4000 K 70 CRI	131 UNV	10% 0-10V	146	SITE POLE	SIMILAR TO 'SL1' BUT WITH TYPE 4 DISTIBUTION	
SL4	POLELED EXTENDED FLAGPOLE LIGHT	INTEGRAL LED 17,087 LUMENS 4000 K 70 CRI	3250 UNV	10% 0-10V	3611	FLAG POLE	FLAG POLE MOUNTED UPLIGHT FOR FLAG ILLUMINATION.	2
X1	MULE U-MD-U-BAB EQUAL: DUAL LITE SE , CHLORIDE 55 SERIES , EVENLITE SENTRY SEN	INTEGRAL LED	1.2 UNV	- -	1.3	RE: PLANS	LED UNIVERSAL EXIT SIGN WITH RED/GREEN SWITCH, UNIVERSAL MOUNTING. BRUSHED ALUMINUM HOUSING WITH BLACK AND BRUSHED FINISH.	
X2	MULE U-MD-U-BAB EQUAL: DUAL LITE SE , CHLORIDE 55 SERIES , EVENLITE SENTRY SEN	INTEGRAL LED	1.2 UNV	- -	1.3	RE: PLANS	SIMILAR TO 'X1' BUT USED IN DUAL FACE APPLICATION.	

SPECIFIC NOTES:
1 COORDINATE LENGTH OF FIXTURE WITH ARCHITECTURAL PLANS.
2 REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FLAG POLE SPECIFICATIONS.

GENERAL NOTE:
G1. THE MANUFACTURER IN THE COLUMN LISTED FIRST IS THE BASIS OF DESIGN. SUBSEQUENT MANUFACTURER'S/MODEL SERIES LISTED ARE CONSIDERED APPROVED EQUIVALENT, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
G2. REFER TO THE SUBSTITUION NOTES BELOW FOR THE PROCESS TO BECOME AN APPROVED EQUIVALENT.
G3. VERIFY CEILING TYPE PRIOR TO ORDERING LIGHT FIXTURES, AND PROVIDE TRIM KITS, ADAPTER KITS, MOUNTING HARDWARE, ETC AS REQUIRED FOR THE TYPE OF CEILING APPLICATION.
G4. COORDINATE DIMMING DRIVERS WITH DIMMING SWITCHES/SYSTEMS AND PROVIDE REQUIRED CONTROL WIRING.
G5. PROVIDE UNSWITCHED HOT CONDUCTOR TO LIGHT FIXTURES AND EXIT SIGNS WITH EMERGENCY BATTERY BACK UP POWER.
G6. CONFIRM FINAL LIGHT FIXTURE FINISHES WITH THE ARCHITECT PRIOR TO ORDERING.

SUBSTITUTION NOTES:
THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURER SPECIFIED. IF A PROPOSED SUBSTITUTION IS DESIRED BY THE CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS:
S1. SUBSTITUTION REQUEST FOR PROPOSED EQUIVALENTS MUST BE RECEIVED BY THE ENGINEER IN WRITING AT LEAST 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES A GUARANTEE TO SUPPLY THE SPECIFIED LIGHT FIXTURE OR LISTED EQUIVALENT.
S2. INFORMATION IS TO BE SUPPLIED COMPARING PHOTOMETRY, (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS) DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE "CONTRACTOR NET" PRICING.
S3. LUMENS INDICATED ARE NOMINAL BASED ON THE BASIS OF DESIGN LIGHT FIXTURE. IT IS THE RESPONSIBILITY OF THE LIGHTING REPRESENTATIVE TO REVIEW THE DELIVERED LUMENS OF THE BASIS OF DESIGN AND TO MEET OR EXCEED THAT VALUE.
S4. SAMPLES ARE TO BE PROVIDED UPON REQUEST.
S5. IF THE ENGINEER DEEMS THE PROPOSED SUBSTITION ACCEPTABLE, IT WILL BE INCLUDED IN THE BID DOCUMENT OR AN ADDENDUM WILL BE ISSUED THAT INCLUDES THE LIGHT FIXTURE IN THE SCHEDULE AS AN APPROVED EQUIVALENT.
IF THE PROPOSED SUBSTITUTION IS NOT DEEMED ACCEPTABLE, IT WILL NOT BE INLCUDED IN THE ADDENDUM, THEREFORE IT IS NOT ACCEPTABLE TO INCLUDE IN THE BID.
S7. PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED.
S8. MANUFACTURER'S REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LOT PRICING FOR SPECIFIED LIGHTING FIXTURES.
S9. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MINI-LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.

POST BID ALTERNATES:
P1. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM. THEREFORE, FOR EACH AND EVERY TYPE OF LIGHT FIXTURE OR CONTROL SYSTEM OFFERED AS AN UNSOLICITED ALTERNATE, A $500.00 FEE WILL BE CHARGED TO THE CONTRACTOR FOR REVIEW OF THE PROPOSED ALTERNATE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT FEE MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.
P2. SAMPLES ARE TO BE PROVIDED UPON REQUEST.

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ASSET # 9327033001

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LIGHTING CONTROLS SCHEDULE

TYPE	MANUFACTURER	MODEL #	SYSTEM	VOLTAGE	SETTINGS	MOUNTING	DESCRIPTION	NOTES
S^D	WATTSTOPPER SENSOR SWITCH NX	RADIANT-0-10V SPODMRA-MWO-D RSD0108-UNV-XX	LINE VOLTAGE	120/277V	-	WALL	LINE VOLTAGE SINGLE ZONE DIMMER SWITCH ON/OFF, 0-10V DIMMING, CAPABLE OF WIRING WITH STANDARD 3-WAY SWITCH, 5A AT 277V, 10A AT 120V	
S^DT	WATTSTOPPER SENSOR SWITCH NX	TS-400 DPTS TD300	LINE VOLTAGE	120/277	ADJUSTABLE TIME SETTINGS FROM 5 MIN TO 12 HR	WALL	LINE VOLTAGE SINGLE ZONE DIGITAL TIME SWITCH, LCD TIMER DISPLAY, 800W AT 120V, 1200W AT 277V	
S^MS	WATTSTOPPER SENSOR SWITCH NX	DSW-301 WSXA-PDT-SA LHRMTS1-N-XX	LINE VOLTAGE	120/277V	ON: MANUAL OFF: 20 MINUTE DELAY	WALL	LINE VOLTAGE, WALL SENSOR SWITCH WITH DUAL TECHNOLOGY DETECTION, SINGLE ZONE, ON/OFF CONTROL, NEUTRAL OPTIONAL, MULTI-WAY WIRING CAPABILITY WITH SAME SWITCHES, 1000W AT 120V, 1200W AT 277V, 1/4 HP	
S^MSD	WATTSTOPPER SENSOR SWITCH NX	DW-311 WSXA-PDT-D-SA LHRMTS1-G-XX	LINE VOLTAGE	120/277V	ON: MANUAL OFF: MANUAL AUTO OFF: 20 MIN DELAY	WALL	LINE VOLTAGE SINGLE ZONE WALL SENSOR DIMMER SWITCH WITH DUAL TECHNOLOGY DETECTION ON/OFF, 0-10V DIMMING, NEUTRAL REQUIRED, MULTI-WAY WIRING CAPABILITY WITH SAME SWITCHES, 1000W AT 120V, 1200W AT 277V, 1/4 HP	
S^LT	WATTSTOPPER NLIGHT NX	LMSW-210 NPODM NXSW2-1-XX	NETWORK	LOW VOLTAGE	ON: MANUAL OFF: MANUAL AUTO OFF: 20 MIN DELAY	WALL	LOW VOLTAGE, LOCAL SYSTEM, SINGLE ZONE, 1 BUTTON SWITCH, ON/OFF CONTROL	
S^LD1	WATTSTOPPER NLIGHT NX	LMSW-211 NPODMA-DX NXSW2-ORLO-XX	NETWORK	LOW VOLTAGE	ON: MANUAL OFF: MANUAL AUTO OFF: 20 MIN DELAY	WALL	LOW VOLTAGE, LOCAL SYSTEM, SINGLE ZONE SWITCH, 1 BUTTON ON/OFF, WITH SEPARATE ROCKER RAISE/LOWER BUTTONS	
S^LD2	WATTSTOPPER NLIGHT NX	LMSW-222 NPODMA-DX NXSW2	NETWORK	LOW VOLTAGE	ON: MANUAL OFF: MANUAL AUTO OFF: 20 MIN DELAY	WALL	LOW VOLTAGE, LOCAL SYSTEM, SINGLE ZONE SWITCH, 1 BUTTON ON/OFF, WITH SEPARATE ROCKER RAISE/LOWER BUTTONS	
S^LD5	WATTSTOPPER NLIGHT NX	LMSW-250 NPODMA NXSW2-5	NETWORK	LOW VOLTAGE	ON: MANUAL OFF: MANUAL AUTO OFF: 20 MIN DELAY	WALL	LOW VOLTAGE, LOCAL SYSTEM, SINGLE ZONE SWITCH, 1 BUTTON ON/OFF, WITH SEPARATE ROCKER RAISE/LOWER BUTTONS	
□^IS	WATTSTOPPER NLIGHT NX	LMRC-101 NPP16-EFP-SA NXRCFX2-1RD-UNV	NETWORK	120/277V	ON: MANUAL OFF: 20 MINUTE DELAY	ACCESSIBLE LOCATION	SINGLE ZONE ONE RELAY ROOM CONTROLLER, ON/OFF CONTROL PLENUM RATED, INTEGRATES WITH LOW VOLTAGE SENSORS AND SWITCHES	
□^1D	WATTSTOPPER NLIGHT NX	LMRC-211 NPP16-D-EFP NXRCFX2-1RD-UNV	NETWORK	120/277V	ON: MANUAL OFF: 20 MINUTE DELAY	ACCESSIBLE LOCATION	SINGLE ZONE ONE RELAY ROOM CONTROLLER, ON/OFF PLUS DIMMING CONTROL 0-10V DIMMING PLENUM RATED, INTEGRATES WITH LOW VOLTAGE SENSORS AND SWITCHES	
□^2D	WATTSTOPPER NLIGHT NX	LMRC-212 NXRCFX2-2RD-UNV	NETWORK	120/277V	ON: MANUAL OFF: 20 MINUTE DELAY	ACCESSIBLE LOCATION	DUAL ZONE TWO RELAY ROOM CONTROLLER, ON/OFF PLUS DIMMING CONTROL 0-10V DIMMING PLENUM RATED, INTEGRATES WITH LOW VOLTAGE SENSORS AND SWITCHES	
□^3D	WATTSTOPPER NLIGHT NX	LMRC-213 -	NETWORK	120/277V	ON: MANUAL OFF: 20 MINUTE DELAY	ACCESSIBLE LOCATION	TRIPLE ZONE THREE RELAY ROOM CONTROLLER, ON/OFF PLUS DIMMING CONTROL 0-10V DIMMING PLENUM RATED, INTEGRATES WITH LOW VOLTAGE SENSORS AND SWITCHES	
(MS)	WATTSTOPPER NLIGHT NX	LMDC-100 NCM-PDT-10-RJB NXSMDT-OMNI	NETWORK	LOW VOLTAGE	ON: MANUAL OFF: 20 MINUTE DELAY	CEILING	LOW VOLTAGE OCCUPANCY SENSOR WITH DUAL TECHNOLOGY DETECTION AND 1000 SF COVERAGE	

SPECIFIC NOTES:
1.
2.
3.
4.

GENERAL NOTES:
G1. THE MANUFACTURER IN THE COLUMN LISTED FIRST IS THE BASIS OF DESIGN. SUBSEQUENT MANUFACTURER'S/MODEL SERIES LISTED ARE CONSIDERED APPROVED EQUIVALENT, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
G2. VERIFY COLOR OF DEVICE WITH ARCHITECT PRIOR TO ORDERING.
G3. PROVIDE DIMMMING SWITCH / CONTROL SYSTEM COMPATIBLE WITH THE DIMMING DRIVER FURNISHED WITH THE LIGHT FIXTURE.
G4. PROVIDE CONTROL WIRING AS REQUIRED.
G5. INSTALL LIGHTING CONTROL DEVICES IN AN ACCESSIBLE LOCATION. DO NOT INSTALL ABOVE SHEETROCK OR OTHER NON-ACCESSIBLE CEILINGS.
G6. REFER TO THE SUBSTITUION NOTES BELOW FOR THE PROCESS TO BECOME AN APPROVED EQUIVALENT.

SUBSTITUTION NOTES:
THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURERS SPECIFIED. IF AN ADDITIONAL SUBSTITUTION IS DESIRED BY THE CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS:
S1. SUBSTITUTION REQUEST MUST BE RECEIVED BY THE ENGINEER IN WRITING 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES A GUARANTEE TO SUPPLY THE SPECIFIED LIGHTING CONTROLS.
S2. INFORMATION IS TO BE SUPPLIED COMPARING WIRING REQUIREMENTS, LOAD RATINGS, DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE "CONTRACTOR NET" PRICING.
S3. SAMPLES ARE TO BE PROVIDED UPON REQUEST.
S4. IF THE ENGINEER DEEMS THE PROPOSED SUBSTITION ACCEPTABLE, AN ADDENDUM WILL BE ISSUED THAT INCLUDES THE LIGHTING CONTROL DEVICE IN THE SCHEDULE AS AN APPROVED EQUIVALENT.
S5. IF THE PROPOSED SUBSTITUTION IS NOT DEEMED ACCEPTABLE, IT WILL NOT BE INLCUDED IN THE ADDENDUM, THUS NOT ACCEPTABLE TO INCLUDE IN THE BID.
S6. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING.

POST BID ALTERNATES:
P1. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM SPECIFIED. THEREFORE, FOR EACH AND EVERY TYPE OF LIGHT FIXTURE OR CONTROL SYSTEM OFFERED AS AN UNSOLICITED ALTERNATE, A $500.00 FEE WILL BE CHARGED TO THE CONTRACTOR FOR REVIEW OF THE PROPOSED ALTERNATE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT FEE MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.
P2. SAMPLES ARE TO BE PROVIDED UPON REQUEST.

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.

* = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

GENERAL NOTES (TYPICAL ALL SHEETS)

A. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.

B. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.

C. REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.

D. ALL JUNCTION BOXES FOR RECEPTACLES SHALL BE EVENLY SPACED ALONG WALL.

E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.

F. NEW CIRCUITRY SHOWN FOR NEW/EXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.

G. PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.

H. CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.

I. CONTRACTOR SHALL PROVIDE ANY REQUIRED PATCH PANELS, RACK ACCESSORIES, ETC... TO MAKE ALL DATA/VOICE CLOSET TERMINATIONS INDICATED. COORDINATE WITH OWNERS TELECOMMUNICATIONS REPRESENTATIVE.

J. SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.

K. CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.

L. COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL SYSTEM FURNITURE WITH FURNITURE INSTALLER.

M. DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS NOTED OTHERWISE.

N. THE FOLLOWING FACTORS SHALL BE USED TO DETERMINE PANELBOARD CAPACITY: 100% LIGHTING, 100% MOTOR LOADS, 100% OF FIRST 10,000 & 50% THERE AFTER FOR ALL OTHER LOADS.

O. 20% SPARE BREAKER SPACE SHALL BE PROVIDED IN EACH PANELBOARD.

P. ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH THE RELOCATION(S).

Q. LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER IBC 1006.1.

R. MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS.

S. CONTRACTOR SHALL INSTALL ALL DEVICES PER U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT FAIR HOUSING ACT AND SHALL COMPLY WITH APPLICABLE CODES.

T. CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.

U. OUTLETS INSTALLED IN FIRE RATED ASSEMBLES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".

V. CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY. PER N.E.C.

W. PROVIDE 3'-0" CLEARANCE IN FRONT OF DISCONNECTS TO CONDENSING UNITS.

X. CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENING IN RATED ASSEMBLES PER MANUFACTURERS RECOMMENDATIONS PER FIRE RATED ASSEMBLES.

Y. PROVIDE HOUSE KEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.

Z. INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO THE FAIR HOUSING ACT, NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.

AA. WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.

AB. CONTRACTOR MAY WIRE SO FIRST GFI OUTLET PROTECTS ALL DOWN STREAM OUTLETS.

AC. FIRE ALARM CONTRACTOR IS RESPONSIBLE OF TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. AFTER INSTALLATION AND BEFORE CERTIFICATE OF OCCUPANCY. ADD HORNS WHERE REQUIRED TO MAINTAIN MINIMUM LEVELS.

AD. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.

AE. ELECTRICAL CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.

AF. CONTRACTOR SHALL PROVIDE HIS/HER OWN SUPPORTING OF CABLING FROM STRUCTURE ABOVE, I.E. TEMPERATURE CONTROL WIRING, SECURITY CONTROL WIRING, FIRE ALARM CONTROL WIRING, OR ANY OTHER WIRING CONTAINING VOLTAGE. CONTRACTOR SHALL NOT RUN PARALLEL WITH OR BE SUPPORTED BY ANY UTP, COAX OR VIDEO CABLING (CABLES INDICATED ON TECHNOLOGY DRAWINGS). IF CABLES ARE FOUND TO BE SUPPORTED WITH THESE CABLES, CONTRACTOR SHALL REMOVE CABLES, REROUTE AND RE-SUPPORT AT THEIR OWN EXPENSE. IF UTP CABLES ARE DAMAGED WHILE EITHER INSTALLING OR REMOVING SUCH CABLES, THE CONTRACTOR(S) THAT DID SUCH DAMAGE SHALL COVER COST TO REPLACE CABLES AT THEIR OWN EXPENSE.

AG. FIRE ALARM CONTRACTOR TO MAKE FINAL CONNECTION TO FAN POWERED BOXES RELAY FOR AUTOMATIC SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.

AH. CONTRACTOR SHALL FOLLOW THE FOLLOWING GUIDE LINES;

1. MAXIMUM OF 6 RECEPTACLE PER 120V CIRCUIT.
2. MAXIMUM OF 16A PER 20A/1P CIRCUIT BREAKER.
3. WHERE ACCEPTABLE INSTALL SWITCHES UNDER COMMON FACE PLATE.
4. PROVIDE DEDICATED CIRCUIT FOR EVERY TWO WORK STATIONS, GARBAGE DISPOSAL, COPY MACHINE AND ABOVE COUNTER GFI'S.
5. CONTRACTOR SHALL INSTALL FIRE ALARM DEVICES THAT COMPLIES WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE NFPA, UL, ADA.
6. CONTRACTOR SHALL COMPLY WITH THE NEC OR ANY OTHER CODES HAVING JURISDICTION.

AI. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR REQUIREMENTS AND LOCATIONS. ELECTRICAL SYSTEMS SHALL BE DESIGNED TO TAKE ADVANTAGE OF UTILITY COMPANY'S REBATE PROGRAM.

FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

ELECTRICAL SYMBOLS

- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL, ARROWS INDICATED HOMERUNS TO PANEL, ALL CONDUCTORS ARE NOTED IN PANEL SCHEDULE
  PHASE CONDUCTORS
  NEUTRAL CONDUCTORS
  GROUND CONDUCTORS
- LP1-10 — PANEL - BREAKER NUMBER (IDENTIFICATION)
- 1,3 OR 1,3,5 — INDICATES X,X= 2-POLE C.B. OR X,X,X= 3-POLE C.B.
- 5 3 1 — HOMERUN INDICATED LIKE THIS INDICATES THREE SEPARATE CIRCUITS
- CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS; 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE, MINIMUM NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON PLANS
- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB
- GROUNDING CONDUCTOR, MINIMUM NO. 12 WIRE EXCEPT AS NOTED
- EXIT SIGN, SINGLE FACED, ARROWS AS SHOW ON PLANS, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
- EXIT SIGN, DOUBLE FACED, ARROWS AS SHOW ON DRAWING, SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT
- A OR A — LED LIGHT FIXTURE; LETTER DENOTES FIXTURE TYPE
- AE AE — LED LIGHT FIXTURE ON EMERGENCY POWER OR WITH INTEGRAL EMERGENCY BALLAST; REFER TO FIXTURE SCHEDULE FOR TYPE
- M M — LED STRIP FIXTURE
- WALL WASH OR RECESSED CEILING LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
- PENDANT MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
- 208Y/120V OR 120/240V PANELBOARD (SURFACE), TOP MOUNTED 6'-0" AFF
- DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED)
- SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON PLANS
- FLUSH MOUNTED EQUIPMENT, TYPE AS INDICATED ON PLANS
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT STUB-UP THROUGH WALL WITH BUSHING ON BOTH ENDS. SIZE AS NOTED ON PLANS
- EMPTY CONDUIT STUB-UP INSIDE WALL TO ABOVE ACCESSIBLE CEILING WITH BUSHING ON THE END. SIZE AS NOTED ON PLANS
- GROUND
- DISCONNECT SWITCH, SIZE AND TYPE AS NOTED, TOP MOUNTED 5'-0" AFF
- S — SINGLE POLE SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
- S^MS — MOTION SENSOR SWITCH, +3'-10" AFF TO CENTERLINE OF DEVICE BOX
- a,b,c,d — SWITCH DESIGNATION
- PUSH BUTTON, +3'-10" AFF
- INDICATES SWITCHED RECEPTACLE. RE: PLANS
- INDICATES ISOLATED GROUND RECEPTACLE. RE: PLANS
- INDICATES EMERGENCY RECEPTACLE. RE: PLANS
- INDICATES RECEPTACLE ABOVE COUTERTOP. RE: PLANS
- SINGLE RECEPTACLE, +1'-6" AFF OR AS NOTED
- DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
- DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION,+ 1'-6" AFF OR AS NOTED
- WP — GFI DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE, HEIGHT AS NOTED
- USB DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
- HEAVY DUTY RECEPTACLE; VOLTAGE, PHASE AND AMPS AS NOTED, +1'-6" OR AS NOTED
- DOUBLE DUPLEX RECEPTACLE, +1'-6" AFF OR AS NOTED
- DOUBLE DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
- J OR J — WALL OR CEILING MOUNTED JUNCTION BOX
- DATA/VOICE OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING, +1'-6" AFF OR AS NOTED
- DATA/VOICE OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING, INSTALLED ABOVE COUNTERTOP
- CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
- DUCT MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- FIRE ALARM STROBE LIGHT, +6'-8" AFF
- FIRE ALARM STROBE LIGHT, CEILING MOUNTED
- FIRE ALARM HORN. WALL MOUNTED, +6'-8" AFF
- FIRE ALARM HORN, CEILING MOUNTED (FLUSH)
- FIRE ALARM COMBINATION AUDIBLE/VISUAL WALL MOUNTED, +6'-8" AFF
- FIRE ALARM COMBINATION AUDIBLE/VISUAL CEILING MOUNTED (FLUSH)
- F — FIRE ALARM MANUAL PULL STATION, +3'-10" AFF
- FS — SPRINKLER ALARM SYSTEM FLOW SWITCH
- TS — SPRINKLER ALARM SYSTEM TAMPER SWITCH
- FIRE FIGHTER PHONE
- FIRE ALARM EXTERIOR/INTERIOR BELL, SIZE AND TYPE AS NOTED
- CR — CARD READER; PROVIDE DOUBLE-GANG J-BOX WITH SINGLE GANG PLASTER RING WITH 3/4"C STUBBED UP INSIDE WALL AND OUT TO ACCESSIBLE CEILING WITH BUSHING ON THE END,+3'-10" AFF OR AS NOTED
- INDICATES WIRING DEVICE ABOVE, RE: DRAWING
- AHU-1 — MECHANICAL EQUIPMENT CALL OUT
- +3'-10" — HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR
- AFF — ABOVE FINISHED FLOOR
- FA — FIRE ALARM

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