SYMBOLS LEGEND

BACKER ROD AND SEALANT

BATT INSULATION

COMPACTED GRANULAR FILL

CONCRETE

CONCRETE BLOCK (CMU)

EARTH

FACE BRICK

FINISHED WOOD

GYPSUM BOARD

PLYWOOD

RIGID INSULATION

STEEL

WOOD BLOCKING OR FRAMING

DETAIL MARK / DRAWING NO. — 1 / A1.0

DOOR TAG — 100

ELEVATION / SHEET NO. — 1 / A1.0 / A

FLOOR ELEVATION

GRID LINES

REVISION CLOUD/NUMBER — 1

ROOM NAME / NUMBER — ROOM 100

SECTION MARK / DRAWING NO. — 1 / A1.0

SPOT ELEVATION — 100.0'

WALL TYPE — 1 / 1'-0" / 1X

WINDOWS OR FRAMES TAG — W1

ABBREVIATIONS

A	
AFF	ABOVE FINISH FLOOR
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
&	AND
L	ANGLE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B	
BLKG	BLOCKING
BD	BOARD
B.O.	BOTTOM OF
BRK	BRICK
BLDG	BUILDING
C	
CAB	CABINET
CUH	CABINET UNIT HEATER
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN
CLG	CEILING
CTR	CTR
CL	CENTER LINE
CT	CERAMIC TILE
CLR	CLEAR
CLO	CLOSET
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CJ	CONTROL JOINT
CORR	CORRIDOR
CNTR	COUNTER
CVB	COVED VINYL BASE
D	
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DBL	DOUBLE
DN	DOWN
DS	DOWNSPOUT
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
E	
EA	EACH
EW	EACH WAY
E	EAST
EWC	ELECTRIC WATER COOLER
ELEC	ELECTRICAL
EP	ELECTRICAL PANEL
EL	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENMAT	ENTRY MAT
EP	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
EXT	EXTERIOR
F	
FF	FACTORY FINISH
FIN	FINISH
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
CHYT	FIRE HYDRANT
FLR	FLOOR
FD	FLOOR DRAIN
FLUOR	FLUORESCENT
F.O	FACE OF
FT	FOOT OR FEET
FTG	FOOTING
FDN	FOUNDATION
G	
GA	GAGE
GALV	GALVANIZED
GL	GLASS
GND	GROUND
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GWB	GYPSUM WALL BOARD
H	
HDWR	HARDWARE
HDWD	HARDWOOD
HT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIB
HR	HOUR
I	
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
JT	JOINT
K	
KIT	KITCHEN
L	
LAB	LABORATORY
LAV	LAVATORY
LT	LIGHT
LVR	LOUVER
M	
MH	MANHOLE
MFG	MANUFACTURER
MARB	MARBLE
MKRBD	MARKER BOARD
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MULL	MULLION
N	
NAT	NATURAL FINISH
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
O	
OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OA	OVERALL
P	
PNT	PAINT
PR	PAIR
PNL	PANEL
PTN	PARTITION
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
PLYWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
LB	POUND
PRCST	PRECAST
Q	
QT	QUARRY TILE
P	
PNT	PAINT
PR	PAIR
PNL	PANEL
PTN	PARTITION
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
PLYWD	PLYWOOD
PVC	POLYVINYL CLORIDE
LB	POUND
PRCST	PRECAST
S	
SCHED	SCHEDULE
SECT	SECTION
SSK	SERVICE SINK
SHT	SHEET
SM	SHEET METAL
SHV	SHELF
SHR	SHOWER
SIM	SIMILAR
S	SOUTH
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FEET
STN	STAINED
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
ST-JST	STEEL JOIST
SVB	STRAIGHT VINYL BASE
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T	
TKBD	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TER	TERRAZZO
THK	THICK
THRES	THRESHOLD
T/G	TONGUE AND GROOVE
T/B	TOP AND BOTTOM
T.O.	TOP OF
TF	TRANSPARENT FINISH
T	TREAD
–X	TYPE X
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	
VERT	VERTICAL
VEST	VESTIBULE
VIN	VINYL
VCT	VINYL COMPOSITION TILE
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	
WC	WATER CLOSET
WR	WATER RESISTANT
WP	WATERPROOF
WT	WEIGHT
WWF	WELDED WIRE FABRIC
W	WEST
W/	WITH
W/O	WITHOUT
WD	WOOD
WD–FR	WOOD FURRING

RE-DESIGN - 100% CONSTRUCTION DOCUMENTS ISSUANCE
18 DECEMBER 2025

STATE CENTER FIRE DEPARTMENT RENOVATION & ADDITION

109 E MAIN STREET; STATE CENTER, IA 50247

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PHONE: 641-485-8911 | EMAIL: BRAD@6FONTS.NET

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ADD ALTERNATE #01: REMOVE & REPLACE MID-SECTION OF PPC PAVEMENT IN MAIN STREET.

CERTIFICATIONS

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

CHRISTOPHER P. WERNIMONT
PRINTED OR TYPED NAME

18 DEC 2025
SIGNATURE & DATE

JUNE 30, 2027
LICENSE RENEWAL DATE

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HOLLY STEVENS
PRINTED OR TYPED NAME

18 DEC 2025
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BRAD A. FREEMAN
PRINTED OR TYPED NAME

07 MAY 2025
SIGNATURE & DATE

DECEMBER 31, 2026
LICENSE RENEWAL DATE

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STATE CENTER FIRE DEPARTMENT
RENOVATION & ADDITION
109 E MAIN STREET; STATE CENTER, IA 50247

PRINT DATE: 2025-12-18
SHEET NAME: COVER SHEET

G0.0

ARCHITECTURAL CODE ANALYSIS:

APPLICABLE BUILDING CODES:

CITY OF STATE CENTER & STATE OF IOWA ADOPTED CODES:

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL MECHANICAL CODE W/ AMENDMENTS
- 2021 UNIFORM PLUMBING CODE W/ AMENDMENTS
- 2020 NATIONAL ELECTRICAL CODE
- ACCESSIBILITY
  - 2009 ICC/ANSI A117.1
  - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

IEBC - CH.3 PROV. FOR ALL COMPLIANCE METHOD:

301 ADMINISTRATION

- **301.1.2 WORK AREA COMPLIANCE METHOD**
  REPAIRS, ALTERATIONS, ADDITIONS, CHANGES IN OCCUPANCY AND RELOCATED BUILDINGS COMPLYING WITH THE APPLICABLE REQUIREMENTS OF CH. 5 THROUGH 13 OF THIS CODE SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE.

IEBC - CH.5 CLASSIFICATION OF WORK:

505 ALTERATION - LEVEL 3

- 505.1 SCOPE
  LEVEL 3 ALTERATIONS APPLY WHERE THE WORK AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA.
- 505.2 APPLICATION
  LEVEL 3 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTERS 7 & 8 FOR LEVEL 1 & 2 ALTERATIONS, RESPECTIVELY, AS WELL AS THE PROVISIONS OF CH. 9.

507 ADDITIONS

- 507.1 SCOPE
  PROVISIONS FOR ADDITIONS SHALL APPLY WHERE WORK IS CLASSIFIED AS AN ADDITION AS DEFINED IN CH. 2.
- 507.2 APPLICATION
  ADDITIONS TO EXISTING BUILDINGS SHALL COMPLY WITH THE PROVISIONS OF CH. 11.

IEBC - CH.9 ALTERATIONS - LEVEL 3:

904 FIRE PROTECTION

- 904.2 FIRE ALARM AND DETECTION SYSTEM
  FIRE ALARM AND DETECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 907 OF THE IBC AS REQUIRED FOR NEW CONSTRUCTION.

907 STRUCTURAL

- 907.3 EXIST. STRUCT. ELEMENTS CARRYING GRAVITY LOADS
  EXISTING STRUCTRUAL ELEMENTS OF THE LATERAL FORCE-RESISTING SYSTEM SHALL COMPLY WITH THE SECTION.
- 907.4 EXIST. STRUCT. ELEMENTS RESISTING LATERAL LOADS
  ALL EXISTING ELEMENTS OF THE LATERAL FORCE-RESISTING SYSTEM SHALL COMPLY WITH THIS SECTION.

IEBC - CH.11 ADDITIONS:

1102 HEIGHTS AND AREAS

- 1102.1 HEIGHT LIMITATIONS
  NO ADDITION SHALL INCREASE THE HEIGHT OF AN EXISTING BUILDING BEYOND THAT PERMITTED UNDER THE APPLICABLE PROVISIONS OF CH. 5 OF THE IBC.
- 1102.2 AREA LIMITATIONS
  NO ADDITION SHALL INCREASE THE AREA OF AN EXISTING BUILDING BEYOND THAT PERMITTED UNDER THE APPLICABLE PROVISIONS IN CH.5 OF THE IBC UNLESS FIRE SEPARATION AS REQUIRED BY THE IBC IS PROVIDED.
- 1102.3 FIRE PROTECTION SYSTEMS
  EXISTING FIRE AREAS INCREASED BY THE ADDITION SHALL COMPLY WITH CH. 9 OF THE IBC.

IBC - BUILDING INFORMATION & CRITERIA:

PROJECT NAME & ADDRESS
STATE CENTER FIRE & EMS
RENOVATION & ADDITION
109 E MAIN STREET
STATE CENTER, IOWA 50247

BUILDING OCCUPANCY/USE:

- GROUP A-3 'ASSEMBLY'
  - TRAINING CLASSROOM
- GROUP B 'BUSINESS'
  - CONFERENCE, OFFICE, RESTROOMS, LOCKER ROOM
- GROUP R-3 'RESIDENTIAL, <2 DWELLING UNITS'
  - EMT BUNK (FUTURE)
- GROUP S-2 'LOW-HAZARD STORAGE'
  - APPARATUS BAY, EQUIPMENT LOCKER AREA, STORAGE ROOMS, MECHANICAL ROOMS

CONSTRUCTION TYPE:

- TYPE V-B
- SPRINKLERED (S), NON-SEPARATED OCCUPANCIES

STORIES & HEIGHT (TABLES 504.3 & 504.4):

- EXISTING: 19'-0" ± RIDGE, 1-STORY
- ADDITION: 19'-8" ± RIDGE, 1-STORY
- ALLOWABLE: 60'-0"
  - A-3 S 60'-0" ← MOST RESTRICTIVE
  - B S 60'-0"
  - R-3 S 60'-0"
  - S-2 S 60'-0"
  - ALLOWABLE: 2-STORIES
  - A-3 S 2-STORIES ← MOST RESTRICTIVE
  - B S 3-STORIES
  - R-3 S 4-STORIES
  - S-2 S 3-STORIES

BUILDING AREAS (TABLE 506.2):

- EXISTING: 3,570 SF
- ADDITION: 6,777 SF
  TOTAL AREA: 10,347 SF (GROSS BUILDING AREA)
- ALLOWABLE: 24,000 SF
  - A-3 S1 24,000 SF
  - B S1 36,000 SF
  - R-1 S1 UNLIMITED
  - S-2 S1 54,000 SF

SPRINKLER SYSTEM:

- SECTION 903 COMPLIANT AUTOMATIC SPRINKLER SYSTEM

FIRE ALARM:

- NFPA 72

IBC CH.4 SPECIAL USE & OCCUPANCY REQMTS

406.6 ENCLOSED PARKING GARAGES
ENCLOSED PARKING GARAGES SHALL COMPLY WITH SECTIONS 406.6.1. THROUGH 406.6.3.

- 406.6.1 HEIGHTS AND AREAS
  ENCLOSED VEHICLE PARKING GARAGES SHALL BE LIMITED TO THE ALLOWABLE HEIGHTS AND AREAS SPECIFEID IN SECTIONS 504 AND 506 AS MODIFIED BY SECTION 507.
- 406.6.2 VENTILATION
  A MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE IMC.
- 406.6.3 AUTOMATIC SPRINKLER SYSTEM
  AN ENCLOSED PARKING GARAGE SHALL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.10.

420.2 GROUPS I-1, R-1, R-2, R-3, AND R-4

- SEPARATION WALLS
  WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708.

423.3 CRITICAL EMERGENCY OPERATIONS
FIRE, RESCUE, AMBULANCE, AND POLICE STATIONS SHALL HAVE A STORM SHELTER IN ACCORDANCE WITH ICC 500.
A WEATHER SAFE ROOM IS NOT BEING PURSUED PER STATE OF IOWA CODE (2015), PUBLIC SAFETY 661, CHAPTER 315.

IBC CH.5 GENERAL BUILDING HEIGHTS & AREAS:

508.3 NONSEPARATED OCCUPANCIES
BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS NONSEPARATED OCCUPANCIES

- 508.3.1 OCCUPANCY CLASSIFICATION
  NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.
- 508.3.3 SEPARATION
  EXCEPTION: GROUP R-3 DWELLING UNITS AND SLEEPING UNITS SHALL BE SEPARATED FROM OTHER DWELLING UNITS OR SLEEPING UNITS AND FROM ALL OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 420.
- 508.3.2 ALLOWABLE BUILDING AREA AND HEIGHT
  THE ALLOWABLE BUILDING AREA AND HEIGHT OF THE BUILDING OR PORTION THEREOF SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATION FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SECTION 503.1
- 508.3.3 SEPARATION
  NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES.

509 INCIDENTAL USES
INCIDENTAL USES LOCATED WITHIN SINGLE OCCUPANCY OR MIXED OCCUPANCY BUILDINGS SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION. INCIDENTAL USES ARE ANCILLARY FUNCTIONS ASSOCIATED WITH A GIVEN OCCUPANCY THAT GENERALL POSE A GREATER LEVEL OF RISK TO THAT OCCUPANCY AND ARE LIMITED TO THOSE USES LISTED IN TABLE 509.

- TABLE 509
  LAUNDRY ROOM > 100 SF: 1-HOUR OR SPRINKLERED

IBC CH.6 TYPES OF CONSTRUCTION:

601 GENERAL (TABLE 601, TYPE V-B):

- PRIMARY STRUCTURAL FRAME: 0-HOUR
- BEARING WALLS
  - EXTERIOR: 0-HOUR
  - INTERIOR: 0-HOUR
- INTERIOR WALLS (NON-BEARING): 0-HOUR
- FLOOR CONSTRUCTION: 0-HOUR
- ROOF CONSTRUCTION: 0-HOUR

NOTE:
NO EXTERIOR-RATED WALLS ARE REQUIRED PER TABLE 602, FIRE SEPARATION DISTANCE > 30'-0" ON ALL SIDES OF BUILDING.

IBC CH.7 FIRE & SMOKE PROTECTION:

705 EXTERIOR WALLS

- 705.2.1 TYPE III, IV, OR V CONSTRUCTION
  PROJECTIONS FROM WALLS OF TYPE III, IV, OR V CONSTRUCTION SHALL BE OF ANY APPROVED MATERIAL.
- 705.8.1 ALLOWABLE AREA OF OPENINGS
  THE MAXIMUM AREA OF UNPROTECTED AND PROTECTED OPENINGS PERMITTED IN AN EXTERIOR WALL IN ANY STORY OF A BUILDING SHALL NOT EXCEED THE PERCENTAGES SPECIFIED IN TABLE 705.8.
  - EXCEPTION: BUILDINGS WHOSE EXTERIOR BEARING WALLS, EXTERIOR NONBEARING WALLS, AND EXTERIOR PRIMARY STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS.
- 705.11 PARAPETS
  PARAPETS SHALL BE PROVIDED ON EXTERIOR WALLS OF BUILDINGS.
  - EXCEPTION: A PARAPET NEED NOT BE PROVIDED ON AN EXTERIOR WALL WHERE THE WALL IS NOT REQUIRED TO BE FIRE RESISTANCE RATED IN ACCORDANCE WITH TABLE 602 BECAUSE OF FIRE SEPARATION DISTANCE.

708 FIRE PARTITIONS

- 708.3 FIRE-RESISTANCE RATING
  FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.
  - EXCEPTION: DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPE IIB, IIIB, AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANCE RATINGS OF NOT LESS THAN 1/2 HOUR IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

716 OPENING PROTECTIVES

- 716.2 FIRE-RESISTANCE-RATED GLAZING
  FIRE-RESISTANCE-RATED GLAZING TESTED AS PART OF A FIRE-RESISTANCE-RATED WALL ASSEMBLY IN ACCORDANCE WITH ASTM E119 OR UL 263 AND LABELED IN ACCORDANCE WITH SECTION 703.6 SHALL NOT OTHERWISE BE REQUIRED TO COMPLY WITH THE SECTION WHERE USED AS PART OF A WALL ASSEMBLY.
- TABLE 716.5: OPENING FIRE PROTECTION ASSEMBLIES, RATINGS, AND MARKINGS

FIRE PARTITIONS: OTHER	1/2 HOUR
DOOR ASSEMBLY	20 MIN.
DOOR VISION PANEL	MAX. SIZE TESTED
GLAZING MARKING	D-H-20
SIDELIGHTS/TRANSOM	20 MIN.
GLAZING MARKING	D-H-20

717 DUCTS AND AIR TRANSFER OPENINGS
THE PROVISIONS OF THIS SECTION SHALL GOVERN THE PROTECTION OF DUCT PENETRATIONS AND AIR TRANSFER OPENINGS IN ASSEMBLIES REQUIRED TO BE PROTECTED AND DUCT PENETRATIONS IN NONFIRE-RESISTANCE-RATED FLOOR ASSEMBLIES.

- TABLE 717.3.2.1 FIRE DAMPER RATING
  < 3-HOUR RATED ASSEMBLY: 90-MIN.
- 717.5.2 FIRE BARRIERS
  DUCTS AND AIR TRANSFER OPENINGS OF FIRE BARRIERS SHALL BE PROTECTED WITH LISTED FIRE DAMPERS INSTALLED IN ACCORDANCE WITH THEIR LISTING.
  - EXCEPTION: WALLS WITH A FIRE-RESISTANCE RATING OF 1 HOUR OR LESS ... IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN NO. 26 GAGE THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

  EXCEPTION APPLICABLE, REQUIREMENTS NOT TRIGGERED.
- 718.2.2 CONCEALED WALL SPACES
  FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
  1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
  2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'-0".

718 CONCEALED SPACES

- 718.2.2 CONCEALED WALL SPACES
  FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
  1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
  2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'-0".

720 THERMAL- AND SOUND-INSULATING MATERIALS

- 720.2 CONCEALED INSTALLATION
  INSULATION MATERIALS, WHERE CONCEALED AS INSTALLED IN BUILDINGS OF ANY TYPE OF CONSTRUCTION, SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPMENT INDEX OF NOT MORE THAN 450.

IBC CH.8 INTERIOR FINISHES:

803 WALL & CEILING FINISHES

- 803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS
  INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD (FS) AND SMOKE-DEVELOPED (SD) INDEXES.
  - CLASS 'A' : FS: 0-25 SD: 0-450
  - CLASS 'B' : FS: 26-75 SD: 0-450
  - CLASS 'C' : FS: 76-200 SD: 0-450
- TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

GROUP A-3, SPRINKLERED:	
ROOMS & ENCLOSED SPACES	CLASS 'C'
GROUP B, SPRINKLERED:	
CORRIDORS FOR STAIRS/RAMP	CLASS 'C'
ROOMS & ENCLOSED SPACES	CLASS 'C'
GROUP R-3, SPRINKLERED:	
ROOMS & ENCLOSED SPACES	CLASS 'C'
GROUP S, SPRINKLERED:	
ROOMS & ENCLOSED SPACES	CLASS 'C'

IBC CH.9 FIRE PROTECTION SYSTEMS:

903 AUTOMATIC SPRINKLER SYSTEMS

- 903.2.8 GROUP R
  AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.
- 903.2.10.1 COMMERCIAL PARKING GARAGES
  AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT BUILDINGS USED FOR STORAGE OF COMMERCIAL MOTOR VEHICLES WHERE THE FIRE AREA EXCEEDS 5,000 SF.
  - APPARATUS BAY > 5,000 SF

906 PORTABLE FIRE EXTINGUISHERS

- 906.1 WHERE REQUIRED:
  PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
  1. IN GROUP A, B, R, AND S OCCUPANCIES
  2. WITHIN 30'-0" OF COMMERCIAL COOKING EQUIPMENT
  4. ON EACH FLOOR WHILE UNDER CONSTRUCTION
- TABLE 906.3(1) PORTABLE FIRE EXTINGUISHERS:
  ORDINARY (MODERATE) HAZARD:

EXTINGUISHER TYPE:	2-A
MAX. FLOOR AREA, UNIT OF 'A':	1,500 SF
MAX. FLOOR AREA:	11,250 SF
MAX. TRAVEL DISTANCE:	75'-0"

IBC CH.9 FIRE PROTECTION SYSTEMS CONT.:

907 FIRE ALARM AND DETECTION SYSTEMS:

- 907.2.1 GROUP A:
  A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE.
  REQUIREMENTS NOT TRIGGERED.
- 907.2.2 GROUP B:
  A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP B OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXIST:
  1. OCCUPANT LOAD > 500 - NOT APPLICABLE
  2. OCC. LOAD > 100 ABOVE/BELOW - NOT APPLICABLE
  3. AMBULATORY CARE FACILITY - NOT APPLICABLE
  REQUIREMENTS NOT TRIGGERED.
- **907.2.10.2 AUTOMATIC SMOKE DETECTION SYSTEM**
  AN AUTOMATIC SMOKE DETECTION SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN CORRIDORS, WAITING AREAS OPEN TO CORRIDORS, AND HABITABLE SPACES OTHER THAN SLEEPING UNITS AND KITCHENS.
  - EXCEPTION: AN AUTOMATIC SMOKE DETECTION SYSTEM IS NOT REQUIRED IN BUILDINGS THAT DO NOT HAVE INTERIOR CORRIDORS SERVING SLEEPING UNITS AND WHERE EACH SLEEPING UNIT HAS A MEANS OF EGRESS DOOR OPENING DIRECTLY TO AN EXIT OR TO AN EXTERIOR EXIT ACCESS THAT LEADS DIRECTLY TO AN EXIT.

  EXCEPTION APPLICABLE, REQUIREMENTS NOT TRIGGERED.
- **907.2.11.7 SMOKE DETECTION SYSTEM**
  SMOKE DETECTORS LISTED IN ACCORDANCE WITH UL 268 AND PROVIDED AS PART OF THE BUILDING FIRE ALARM SYSTEM SHALL BE AN ACCEPTABLE ALTERNATIVE TO SINGLE- AND MULTIPLE-STATION SMOKE ALARMS AND SHALL COMPLY WITH THE FOLLOWING:
  1. THE FIRE ALARM SYSTEM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS IN SECTION 907.
  2. ACTIVATION OF A SMOKE DETECTOR IN A DWELLING UNIT OR SLEEPING UNIT SHALL INITIATE ALARM NOTIFICATION IN THE DEWLLING UNIT OR SLEEPING UNIT IN ACCORDANCE WITH SECTION 907.5.2.
  3. ACTIVATION OF A SMOKE DETECTOR IN A DWELLING UNIT OR SLEEPING UNIT SHALL NOT ACTIVATE ALARM NOTIFICATION APPLIANCES OUTSIDE OF THE DWELLING UNIT OR SLEEPING UNIT, PROVIDED THAT A SUPERVISORY SIGNAL IS GENERATED AND MONITORED IN ACCORDANCE WITH SECTION 907.6.6.

915 CARBON MONOXIDE DETECTION

- 915.1 GENERAL
  CARBON MONOXIDE DETECTION SHALL BE INSTALLED IN NEW BUILDINGS IN ACCORDANCE WITH SECTIONS 915.1.1 THROUGH 915.6 AND IN EXISTING BUILDINGS IN ACCORDANCE WITH CHAPTER 11 OF THE IFC.

IBC CH.10 MEANS OF EGRESS:

1004 OCCUPANT LOAD
SEE OCCUPANT LOAD FACTOR LEGEND & CODE PLAN FOR ADDITIONAL INFORMATION.

1005 MEANS OF EGRESS SIZING
SEE EGRESS FACTORS LEGEND & CODE PLAN FOR MORE INFORMATION.

IBC CH.11 ACCESSIBILITY:

1103 SCOPING REQUIREMENTS

- 1103.1 WHERE REQUIRED:
  SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES, TEMPORARY, OR PERMANENT SHALL BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES.

1104 ACCESSIBLE ROUTE:

- 1104.1 SITE ARRIVAL POINTS
  AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.

1105 ACCESSIBLE ENTRANCES:
1105.1 PUBLIC ENTRANCES

- AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.
  - SEE CODE PLAN

IECC - ENERGY CODE CRITERIA

CLIMATE ZONE: 5A
GROUPS: A-3, B, R-3, S-2

TABLE C402.2: OPAQUE THERMAL ENVELOPE REQUIREMENTS:
(REFER TO TABLE C402.1.2 FOR C & U FACTOR VALUES)

ROOFS:	
• ATTICS AND OTHER	R-38
WALLS ABOVE GRADE:	
• WOOD-FRAMES	R-20
• BELOW GRADE	R-7.5ci
SLAB-ON-GRADE FLOORS:	
• UNHEATED SLABS	R-10, 24" BELOW GRADE+ 24" RETURN UNDER SLAB
OPAQUE DOORS:	
• SWINGING	U-0.37
• ROLL-UP OR SLIDING	R-4.75

TABLE C402.3: BUILDING ENVELOPE FENESTRATIONS:

VERTICAL FENESTRATION (U-FACTOR):	
• FIXED FENESTRATION:	0.38
• OPERABLE FENESTRATION:	0.45
• ENTRANCE DOORS:	0.77
• SHGC:	0.40

EGRESS FACTORS:

EGRESS CAPACITY WIDTHS (FOR NON-SPRINKLERED BUILDING):

- OCCUPANT LOAD X 0.2 FOR EGRESS COMPONENTS OTHER THAN STAIRWAYS

MINIMUM NUMBER OF EXITS (FOR NON-SPRINKLERED BUILDING):

- PROVIDE (2) EXITS FOR SPACES WITH OCCUPANT LOADS OVER 49 OCCUPANTS OR CONDITIONS WHERE MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS 75 FEET WHEN ONLY ONE EXIT IS PROVIDED PER TABLE 1006.2.1.
- EXITS SHALL BE SPACED GREATER THAN ONE HALF OF DIAGONAL DISTANCE OF THE BUILDING OR AREA SERVED

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2):
ALLOWABLE:

• A-3	S	250'
• B	S	300'
• R-3	S	250'
• S-2	S	400'

MINIMUM PLUMBING FACILITIES (2021 UPC TABLE 422.1)

FIXTURE COUNT:

A-3 (58 OCCUPANTS)				
MALE (29 OCC)		FEMALE (29 OCC)		
LAV	WC/UR	LAV	WC	DF
0.15	0.23	0.15	0.45	0.12

B (23 OCCUPANTS)				
MALE (11.5 OCC)		FEMALE (11.5 OCC)		
LAV	WC/UR	LAV	WC	DF
0.29	0.46	0.29	0.46	0.23

R-1 (1 SLEEPING UNIT, 2 OCCUPANTS)				
MALE (0.5 SLPNG UNITS)		FEMALE (0.5 SLPNG UNITS)		
LAV	WC/UR	LAV	WC	DF
0.5	0.5	0.5	0.5	0

S-2 (33 OCCUPANTS)				
MALE (16.5 OCC)		FEMALE (16.5 OCC)		
LAV	WC/UR	LAV	WC	DF
0.165	0.165	0.165	0.165	0.033

+ 1 SERVICE SINK
+ 1 BATHTUB/SHOWER

FIXTURES REQUIRED (TOTAL):

UNISEX				
LAV	WC/UR	DF	SS	BATHTUB/ SHOWER
2.21	2.93	0.383	1	1

FIXTURES PROVIDED (TOTAL):

UNISEX				
LAV	WC/UR	DF	SS	BATHTUB/ SHOWER
4	3	2*	1	2

* NEW DRINKING FOUNTAIN SHALL BE AN ADA BI-LEVEL UNIT WITH BOTTLE FILL STATION.

GROUP 'A-3' (ASSEMBLY):
WATER CLOSETS
MALE = 1:125
FEMALE = 1:65
LAVATORIES = 1:200
DRINKING FOUNTAINS = 1:500
SERVICE SINKS: = 1

GROUP 'B' (BUSINESS):
WATER CLOSETS = 1:25 FOR FIRST 50, 1:50 > 50.
LAVATORIES = 1:40 FOR FIRST 80, 1:80 > 80.
DRINKING FOUNTAIN = 1:100
SERVICE SINK = 1

GROUP 'R-1' (RESIDENTIAL, TRANSIENT):
WATER CLOSETS = 1 PER SLEEPING UNIT
LAVATORIES = 1 PER SLEEPING UNIT
BATHTUB/SHOWER = 1 PER SLEEPING UNIT
SERVICE SINK = 1

GROUP 'S-2' (LOW HAZARD STORAGE):
WATER CLOSETS = 1:100
LAVATORIES = 1:100
DRINKING FOUNTAIN = 1:1,000
SERVICE SINK = 1

OCCUPANCY SCHEDULE

ROOM #	ROOM NAME	OCC. GROUP	AREA	OL FACTOR	OL CALC'D	OL TOTAL
A-3						
101	TRAINING CLASSROOM	A-3	1,153 SF	20	57.65	58
			1,153 SF			58
B						
102	CHIEF	B	180 SF	150	1.20	2
104	CONFERENCE	B	159 SF	15	10.59	11
106	KITCHEN	B	256 SF	200	1.28	2
107	EMT DAYROOM (FUTURE)	B	317 SF	150	2.11	3
109	LOCKER	B	296 SF	50	5.91	6
			1,207 SF			24
R-3						
107B	EMT BUNK (FUTURE)	R-3	96 SF	200	0.48	2
			96 SF			2 PER PROGRAM
S-2						
103	MECH/STORAGE	S-2	215 SF	300	0.72	1
105	STORAGE	S-2	89 SF	300	0.30	1
112	APPARATUS BAY	S-2	5,345 SF	200	26.72	27
113	EMT STORAGE	S-2	175 SF	300	0.58	1
114	APPARATUS STORAGE	S-2	735 SF	300	2.45	3
			6,559 SF			33
TOTAL			9,016 SF			117

OCCUPANT LOAD FACTORS:

TABLE 1004.5 MAX. FLOOR AREA ALLOWANCES PER OCC.:

ACCESSORY STOR./MECH/EQUIP:	300 SF/OCC GROSS
ASSEMBLY WITHOUT FIXED SEATING (A):	
- TABLES & CHAIRS (A)	15 SF/OCC NET
BUSINESS AREAS (B):	
- OFFICES (B):	100 SF/OCC GROSS
- TRAINING CLASSROOM (B):	200 SF/OCC GROSS
- ASSEMBLY - TABLE & CHAIRS	15 SF/OCC NET
- EXERCISE ROOMS (B):	50 SF/OCC GROSS
- LOCKER ROOMS (B):	50 SF/OCC GROSS
- KITCHENS, COMMERCIAL (B):	200 SF/OCC GROSS
SUPPORT SPACES:	
- RESTROOMS:	N/A
- CIRCULATION/ CORRIDORS:	N/A

SYMBOL LEGEND - CODE PLAN:

- PATH OF TRAVEL
- PATH OF TRAVEL, MEASUREMENT START
- PATH OF TRAVEL, MEASUREMENT END/EXIT
- 50 / 170 / 34" / 0.15 ← OCCUPANT LOAD AT EGRESS DOOR / MAX ALLOWABLE OCCUPANTS AT EGRESS / CLEAR EGRESS WIDTH OF DOOR (INCHES) / OCC. LOAD FACTOR FOR MAX OCC.
- ACCESSIBLE ENTRANCE (MIN. 60% OF PUBLIC, NOT INCL. SERVICE)
- EXIT SIGN - SEE CEILING PLANS & ELECTRICAL
- # HOUR ← FIRE PARTITION RATING
- FIRE PARTITION

OCC. COLOR LEGEND

- A-3
- B
- R-3
- S-2
- NA

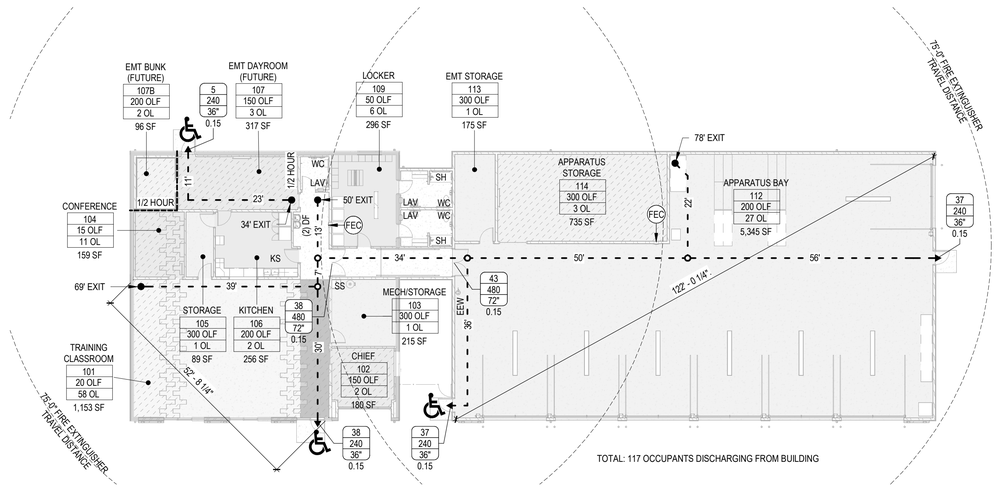
KEYED NOTE LEGEND - CODE PLAN:

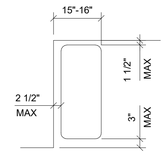
- (REK) **FIRE DEPARTMENT RAPID ENTRY KEY SYSTEM: (1)** KNOX BOX. 3200 SERIES, RECESSED, FINISH: BLACK.
- (BAS) **BUILDING ADDRESS SIGNAGE (2)** SEE EXTERIOR ELEVATIONS & SPECIFICATION FOR MORE INFORMATION.
- (FEC) **FIRE EXTINGUISHER & CABINET** SEMI-RECESSED. SEE TYPICAL MOUNTING HEIGHTS & SPECIFICATION.
- (FE) **FIRE EXTINGUISHER & MOUNTING BRACKET** SEE TYPICAL MOUNTING HEIGHTS & SPECIFICATION.

NOTES:
(1) VERIFY LOCATION WITH AHJ.
(2) VERIFY SIZE & LOCATION WITH AHJ.

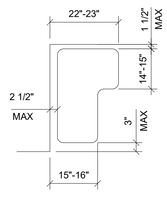
ABBREVIATIONS - CODE PLAN:

BAS	BUILDING ADDRESS SIGNAGE
BN	BENCH (ADA)
EEW	EMERGENCY EYE WASH
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
DF	DRINKING FOUNTAIN
LAV	LAVATORY
OCC	OCCUPANTS
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
REK	FD RAPID ENTRY KEY SYSTEM
SS	SERVICE SINK
SF	SQUARE FEET
WC	WATER CLOSET (ADA)
SH	SHOWER (ADA)
KS	KITCHEN SINK





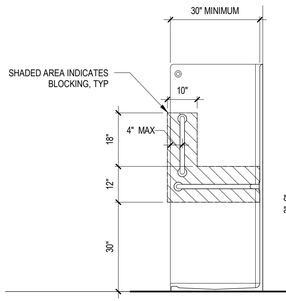
RECTANGULAR SHOWER SEAT



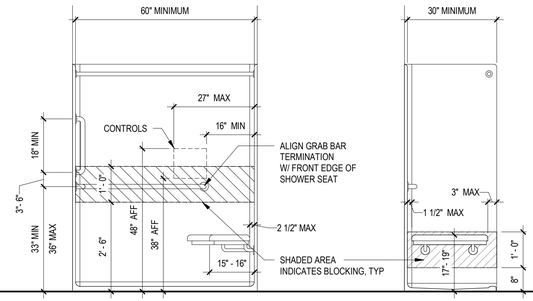
L-SHAPED SHOWER SEAT

SHOWER VALVE & TRIM
THE VALVE, HANDLE & TRIM SHOULD PROVIDE:
- LEVER-STYLE HANDLE WHICH IS EASY TO GRASP AND OPERATE.
- A HANDLE LARGE ENOUGH TO PROVIDED SUFFICIENT SURFACE AREA FOR EASY GRIPPING.
- OPERABLE WITH ONE HAND EVEN WITH LIMITED HAND DEXTERITY.
- CLEARLY INDICATES HOT AND COLD WATER.
- SMOOTH EDGES.

NOTE: CONTINUOUS HORIZONTAL GRAB BARS ARE SHOWN IN SHOWER LOCATIONS, TYP. OPTIONAL SEGMENTED HORIZONTAL GRAB BARS SHALL BE MOUNTED MAX. 6" FROM FACE OF WALL AT CORNERS TYP.



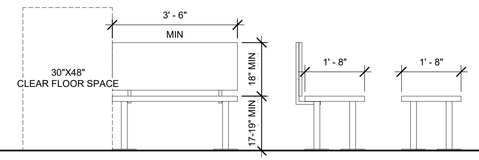
SIDE WALL



CONTROL WALL

SEAT WALL

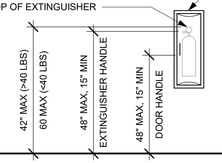
NOTE:
BENCHES THAT ARE NOT INSTALLED AGAINST WALL TO HAVE BACK PANEL



ADA LOCKER ROOM BENCH

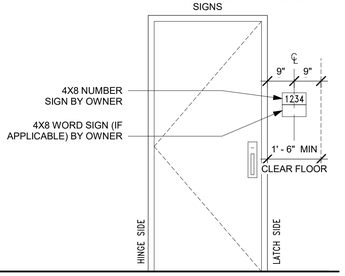
NOTE:
DO NOT INSTALL FIRE EXTINGUISHER OR FIRE EXTINGUISHER CABINET <4" A.F.F.

NO PART OF RECESSED CABINETS SHALL PROJECT 4" OR MORE FROM THE FINISHED WALL SURFACE



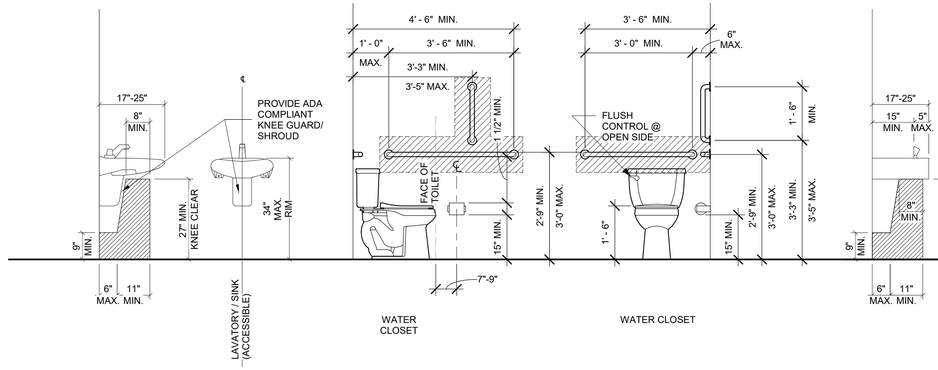
FIRE EXTINGUISHER CABINET

NOTE:
IF ROOM SIGN HAS BOTH WORDS & NUMBERS,
WORDS GO DIRECTLY BELOW NUMBERED SIGNS



TYPICAL ROOM SIGNAGE

NOTE:
VERIFY FLOOR CLEARANCES FOR WATER CLOSET AND TOILET PAPER DISPENSER WITH PLUMBING INSPECTOR PRIOR TO INSTALLATION OF FIXTURES



DIMENSIONS ARE FROM FINISHED WALL AND FLOOR SURFACES

1 **TYPICAL MOUNTING HEIGHTS**
1/2" = 1'-0"

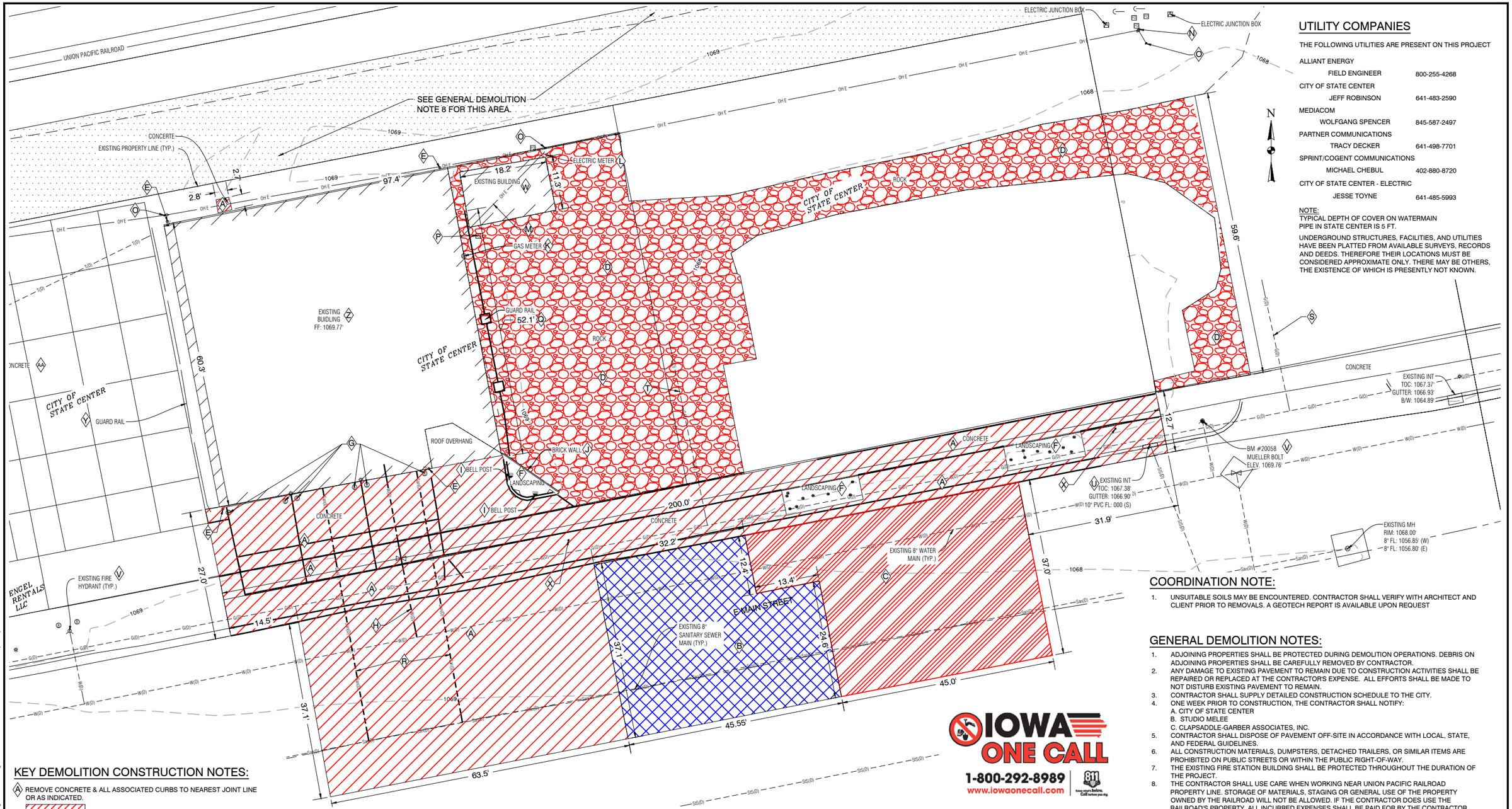
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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: TYPICAL MOUNTING HEIGHTS

G0.2



UTILITY COMPANIES

THE FOLLOWING UTILITIES ARE PRESENT ON THIS PROJECT

ALLIANT ENERGY		
	FIELD ENGINEER	800-255-4268
CITY OF STATE CENTER		
	JEFF ROBINSON	641-483-2590
MEDIACOM		
	WOLFGANG SPENCER	845-587-2497
PARTNER COMMUNICATIONS		
	TRACY DECKER	641-498-7701
SPRINT/COGENT COMMUNICATIONS		
	MICHAEL CHEBUL	402-880-8720
CITY OF STATE CENTER - ELECTRIC		
	JESSE TOYNE	641-485-5993

NOTE:
TYPICAL DEPTH OF COVER ON WATERMAIN PIPE IN STATE CENTER IS 5 FT.

UNDERGROUND STRUCTURES, FACILITIES, AND UTILITIES HAVE BEEN PLATTED FROM AVAILABLE SURVEYS, RECORDS AND DEEDS. THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

COORDINATION NOTE:

1. UNSUITABLE SOILS MAY BE ENCOUNTERED. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND CLIENT PRIOR TO REMOVALS. A GEOTECH REPORT IS AVAILABLE UPON REQUEST

GENERAL DEMOLITION NOTES:

1. ADJOINING PROPERTIES SHALL BE PROTECTED DURING DEMOLITION OPERATIONS. DEBRIS ON ADJOINING PROPERTIES SHALL BE CAREFULLY REMOVED BY CONTRACTOR.
2. ANY DAMAGE TO EXISTING PAVEMENT TO REMAIN DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ALL EFFORTS SHALL BE MADE TO NOT DISTURB EXISTING PAVEMENT TO REMAIN.
3. CONTRACTOR SHALL SUPPLY DETAILED CONSTRUCTION SCHEDULE TO THE CITY.
4. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY:
   A. CITY OF STATE CENTER
   B. STUDIO MELEE
   C. CLAPSADDLE-GARBER ASSOCIATES, INC.
5. CONTRACTOR SHALL DISPOSE OF PAVEMENT OFF-SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES.
6. ALL CONSTRUCTION MATERIALS, DUMPSTERS, DETACHED TRAILERS, OR SIMILAR ITEMS ARE PROHIBITED ON PUBLIC STREETS OR WITHIN THE PUBLIC RIGHT-OF-WAY.
7. THE EXISTING FIRE STATION BUILDING SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT.
8. THE CONTRACTOR SHALL USE CARE WHEN WORKING NEAR UNION PACIFIC RAILROAD PROPERTY LINE. STORAGE OF MATERIALS, STAGING OR GENERAL USE OF THE PROPERTY OWNED BY THE RAILROAD WILL NOT BE ALLOWED. IF THE CONTRACTOR DOES USE THE RAILROAD'S PROPERTY, ALL INCURRED EXPENSES SHALL BE PAID FOR BY THE CONTRACTOR.

KEY DEMOLITION CONSTRUCTION NOTES:

(A) REMOVE CONCRETE & ALL ASSOCIATED CURBS TO NEAREST JOINT LINE OR AS INDICATED.

(B) BID ADD ALTERNATE #1: REMOVE CONCRETE & ALL ASSOCIATED CURBS TO THE NEAREST JOINT LINE OR AS INDICATED

(C) REMOVE EXISTING ROCK FROM CITY DEMOLITION

(D) REMOVE & SALVAGE EXISTING GRAVEL TO CITY

(E) REMOVE EXISTING DOWNSPOUT.

(F) COMPLETELY REMOVE EXISTING LANDSCAPING AND MULCH, DISPOSE OF OFFSITE. BACKFILL DEPRESSIONS WITH SUITABLE SOIL.

(G) REMOVE BOLLARDS & ASSOCIATED FOUNDATIONS. BACKFILL HOLES WITH SUITABLE SOIL. DISPOSE OF OFF-SITE.

(H) EXISTING WATER SERVICE TO BE REMOVED AND DISCONNECTED AT MAIN.

(I) REMOVE AND SALVAGE EXISTING BELL & POSTS TO THE OWNER.

(J) REMOVE BRICK RETAINING WALL

(K) RELOCATE EXISTING GAS METER FOR PROPOSED BUILDING EXPANSION, COORDINATE RELOCATION WITH RESPECTIVE UTILITY OWNER. SEE MECHANICAL PLAN.

(L) EXISTING ELECTRIC METER TO BE RELOCATED, COORDINATE RELOCATION WITH RESPECTIVE UTILITY OWNER. SEE ELECTRICAL PLAN.

(M) EXISTING POWER LINES TO BE REMOVED (BY OTHERS).

(N) EXISTING POWER POLES TO BE PROTECTED THROUGHOUT THE DURATION OF THE THE PROJECT.

(O) EXISTING POWER POLE TO BE REMOVED (BY OTHERS).

(P) REMOVE EXISTING AC UNIT AND ASSOCIATED PIPING. BACKFILL HOLES WITH SUITABLE SOIL. DISPOSE OF OFF-SITE. SEE MECHANICAL PLAN.

(Q) REMOVE AND SALVAGE EXISTING BARRICADE TO OWNER. BACKFILL HOLES WITH SUITABLE SOIL.

(R) EXISTING SANITARY SEWER SERVICE TO BE DISCONNECTED, REMOVED, AND CAPPED AT THE MAIN.

(S) EXISTING GAS SERVICE TO BE ABANDONED IN PLACE.

(T) EXISTING GAS SERVICE TO BE USED FOR PROPOSED EXPANSION, PROTECT THROUGHOUT THE DURATION OF THE PROJECT.

(U) REMOVE & REPLACE EXISTING STORM INTAKE TOP CASTING, CONTRACTOR SHALL PROTECT INTAKE BOX THROUGHOUT THE DURATION OF THE PROJECT.

(V) EXISTING FIRE HYDRANT TO BE PROTECTED THROUGH OUT THE DURATION OF CONSTRUCTION.

(W) EXISTING STORAGE SHED TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.

(X) EXISTING LIGHT POLE TO BE REMOVED AND RELOCATED (BY OTHERS). CONTRACTOR SHALL VERIFY LOCATION WITH CITY.

(Y) EXISTING BARRICADE SHALL BE REMOVED AND REINSTALLED TO COMPLETE BUILDING IMPROVEMENTS. IF BUILDING IMPROVEMENTS CAN BE COMPLETED WITHOUT REMOVING BARRICADE, BARRICADE SHALL BE PROTECTED DURING CONSTRUCTION

(Z) EXISTING BUILDING TO REMAIN, CONTRACTOR SHALL PROTECT THE BUILDING THOUGH THE DURATION OF THE THE PROJECT. FOR MORE INFORMATION REFER TO ARCHITECTURAL PLAN.

(AA) EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THOUGH THE DURATION OF THE PROJECT.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

GRAPHIC SCALE
0 10' 20' 30'

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CGA
Clapsaddle-Garber Associates, Inc
16 East Main Street
Marshalltown, Iowa 50158
Ph 641-752-6701
www.cgaconsultants.com

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STATE CENTER FIRE STATION IMPROVEMENTS
109 E MAIN ST, STATE CENTER, IOWA

EXISTING CONDITIONS & DEMOLITION PLAN

PROJECT NO. 24-DS-0627
SHEET NO. C.110

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CONSTRUCTION NOTES:

- (A) PROPOSED SANITARY SEWER SERVICE CONNECTION TO EXISTING 8" PVC SANITARY SEWER MAIN. CONTRACTOR SHALL FIELD VERIFY PIPE LOCATION, DEPTH & MATERIAL PRIOR TO INSTALLATION.
- (B) INSTALL 4" PVC SANITARY SEWER SERVICE AT MINIMUM SLOPE OF 2%.
- (C) COORDINATE EXISTING GAS SERVICE CONNECTION WITH UTILITY COMPANY.
- (D) COORDINATE ELECTRIC SERVICE CONNECTION WITH UTILITY COMPANY.
- (E) INSTALL SAND OIL INTERCEPTOR, SEE MECHANICAL & ARCHITECTURAL PLANS FOR MORE DETAILS
- (F) PROPOSED FROST PROTECTED STOOP SLAB, SEE STRUCTURAL PLANS FOR MORE INFORMATION.
- (G) EXISTING FIRE HYDRANT TO BE PROTECTED THROUGH THE DURATION OF CONSTRUCTION.
- (H) PROPOSED UNDERGROUND ELECTRICAL TO BE HORIZONTALLY DIRECTIONALLY DRILLED & CONNECTED TO EXISTING TRANSFORMERS (BY OTHERS).
- (I) PROPOSED UNDERGROUND ELECTRICAL TO BE TRENCHED AND CONNECTED FROM THE PROPOSED TRANSFORMER TO THE ELECTRICAL METER (BY OTHERS).
- (J) PROPOSED BUILDING DOWNSPOUT, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- (K) PROPOSED HVAC BUILDING EXHAUST, SEE MECHANICAL & ARCHITECTURAL PLANS FOR MORE INFORMATION.
- (L) PROPOSED WATER SPIGOT, SEE ARCHITECTURAL & MECHANICAL PLANS FOR MORE INFORMATION.
- (M) PROPOSED 2" PCC CURB TRANSITION TO 8" PCC CURB
- (N) PROPOSED ELECTRICAL TRANSFORMER (BY OTHERS).
- (O) PROPOSED 6" WATER SERVICE
- (P) REPLACE EXISTING STORM INTAKE TOP CASTING WITH SW-603 TYPE R CASTING, CONTRACTOR SHALL PROTECT INTAKE BOX THROUGHOUT THE DURATION OF THE PROJECT.
- (Q) ADA ACCESSIBLE ROUTE (SHOWN FOR INFORMATIONAL PURPOSES ONLY).
- (R) CROSS SLOPE TRANSITION PANEL.
- (S) PRIVACY FENCE/GATE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- (T) WHEEL STOP (BY OTHERS).
- (U) PROPOSED WATER METER
- (V) PROPOSED GAS METER
- (W) WINDOW COVE
- (X) BID ADD ALTERNATE #1 - 7" PCC PAVEMENT
- (Y) PROPOSED GAS SERVICE, COORDINATE CONNECTION WITH ALLIANT ENERGY
- (Z) CONTRACTOR SHALL SPLIT SPRINKLER AND DOMESTIC INTERNALLY
- (AA) TOP-SOIL, SEE LANDSCAPE NOTE
- (BB) CONNECT PROPOSED WATER SERVICE TO THE EXISTING WATER MAIN. THE CONNECTION SHALL E A 8"X8"X6" TEE WITH GATE VALVE

GENERAL UTILITY NOTES:

1. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF STATE CENTER.
2. COORDINATE GAS, ELECTRIC, TELEPHONE AND FIBER OPTIC SERVICE WITH RESPECTIVE UTILITY COMPANIES.
3. SEWER FLOW LINES, PIPE MATERIAL, & PIPE SIZES SHALL BE FIELD VERIFIED PRIOR TO INSTALLING PIPE OR ORDERING STRUCTURES.
4. ALL ROOF DRAINS SHALL BE DISCHARGED AT GRADE.

GENERAL LAYOUT NOTES:

1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES & STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH APPROPRIATE SAFETY REGULATIONS.
3. ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED & MULCHED UNLESS OTHERWISE NOTED IN PLANS.

TRAFFIC CONTROL NOTES:

1. ACCESS TO NEIGHBORING BUILDINGS SHALL BE MAINTAINED AT ALL TIMES.
2. ALL UTILITY WORK WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE CURRENT ADDITION OF THE MUTCD.
3. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ALONG E MAIN STREET.
4. THE CONTRACTOR SHALL USE CARE WHEN WORKING UNDER/OVER/AROUND ELECTRICAL LINES.
5. WORK AREA MUST BE ENCLOSED WITH BARRICADES, FENCING, OR A COMBINATION OF THE TWO.

CONSTRUCTION DETAILS

1. INSTALL 7" PCC PAVEMENT.
2. INSTALL 4" PCC SIDEWALK
3. INSTALL 12" AGGREGATE
4. INSTALL 6" PCC CURB AND GUTTER
5. INSTALL 2" DRIVEWAY DROP CURB
6. INSTALL STEEL BOLLARD
7. INSTALL 8" PCC CURB AND GUTTER
8. INSTALL CONCRETE DRIVEWAY, TYPE A
9. INSTALL ANGLED STALL PARKING
10. INSTALL PAVERS - COMBINATION OF 4"X8" (MAJORITY) & 8"X8" PAVERS
11. INSTALL POST INDICATOR VALVE

LANDSCAPING NOTE:

1. ALL LANDSCAPING (PLANTINGS, LANDSCAPE FABRIC, & GROUND COVERINGS) TO BE FURNISHED AND INSTALLED BY THE OWNER

Sanitary Sewer Structures			
Name	Northing/Easting	In Flow	Out Flow
SAN CLEANOUT #1	N: 7844005.29, E: 19405976.01	N = 1058.80	S = 1058.80
SAN CLEANOUT #2	N: 7844029.52, E: 19405960.29	N = 1059.88	S = 1059.88
WYE #1	N: 7844030.57, E: 19405960.08	NW = 1059.92 N = 1059.92	S = 1059.92
WYE #2	N: 7843981.93, E: 19405969.65	N = 1057.94 NE = 1057.94	S = 1057.94

GRAPHIC SCALE 0 10' 20' 30'

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STATE CENTER FIRE STATION IMPROVEMENTS
109 E MAIN ST, STATE CENTER, IOWA

SITE LAYOUT & UTILITY PLAN

PROJECT NO. 24-DS-0627
SHEET NO. C.200

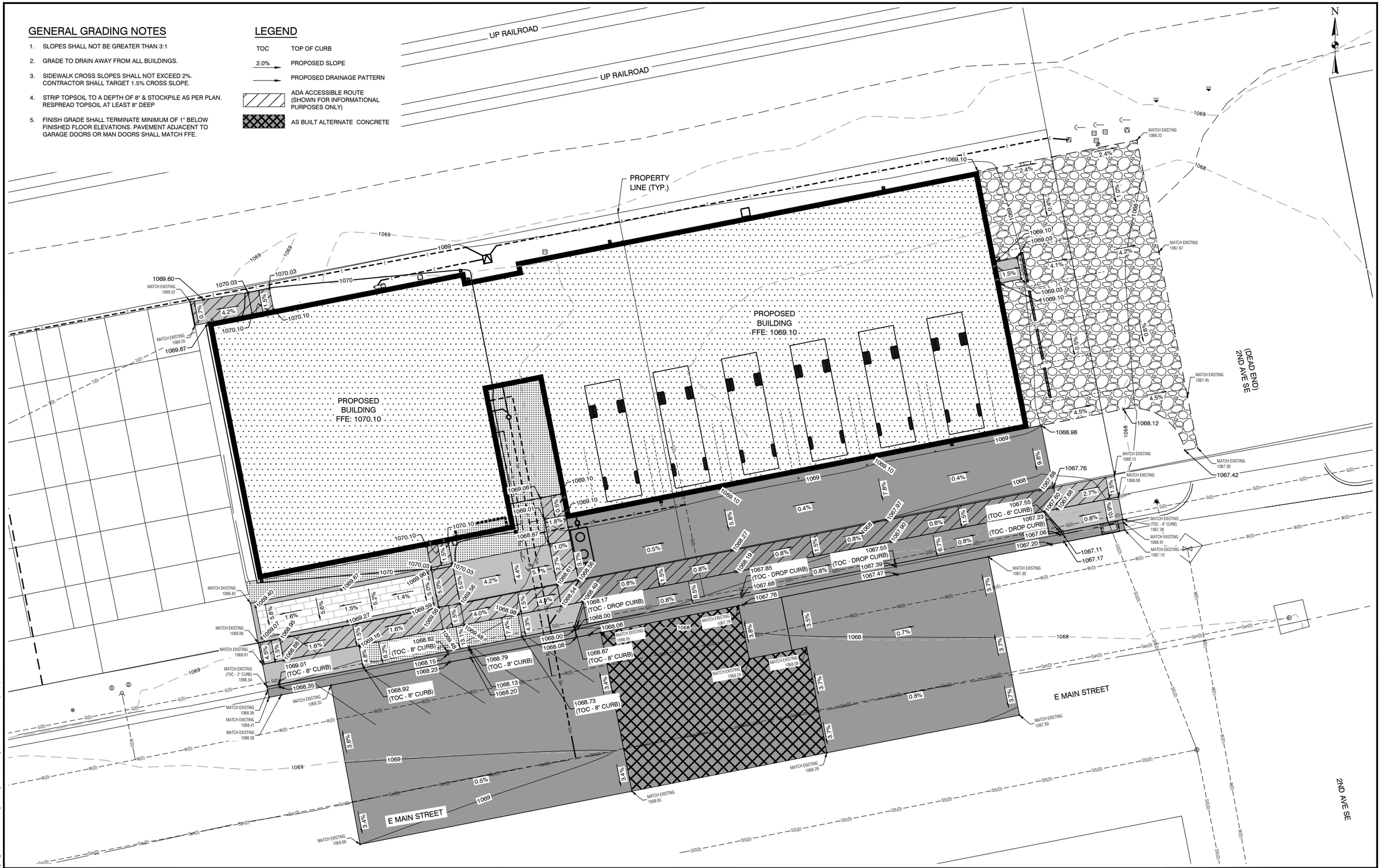
J:\24-DS-0627\dwg\S_Sheet\C.200 Site Layout & Utility Plan.dwg - C.200 Site Layout & Utility Plan - 12-16-25 - 12:56pm - spiters

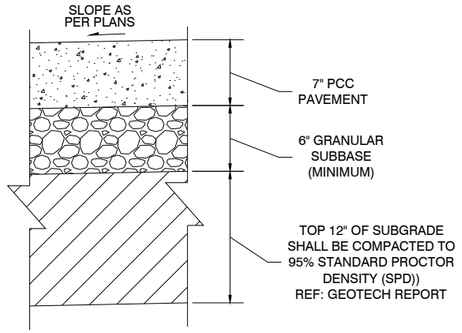
GENERAL GRADING NOTES

1. SLOPES SHALL NOT BE GREATER THAN 3:1
2. GRADE TO DRAIN AWAY FROM ALL BUILDINGS.
3. SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%. CONTRACTOR SHALL TARGET 1.5% CROSS SLOPE.
4. STRIP TOPSOIL TO A DEPTH OF 8" & STOCKPILE AS PER PLAN. RESPREAD TOPSOIL AT LEAST 8" DEEP
5. FINISH GRADE SHALL TERMINATE MINIMUM OF 1" BELOW FINISHED FLOOR ELEVATIONS. PAVEMENT ADJACENT TO GARAGE DOORS OR MAN DOORS SHALL MATCH FFE.

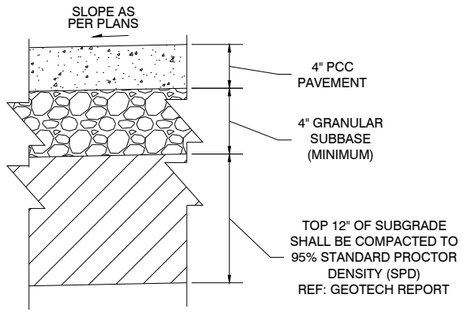
LEGEND

TOC	TOP OF CURB
2.0% →	PROPOSED SLOPE
→	PROPOSED DRAINAGE PATTERN
	ADA ACCESSIBLE ROUTE (SHOWN FOR INFORMATIONAL PURPOSES ONLY)
	AS BUILT ALTERNATE CONCRETE

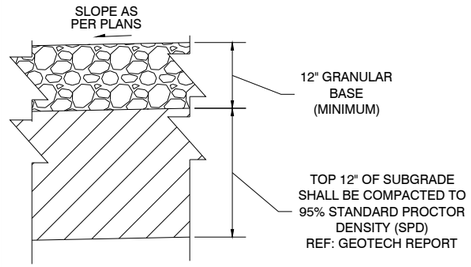

N
UP RAILROAD
UP RAILROAD
PROPERTY LINE (TYP.)
PROPOSED BUILDING FFE: 1069.10
PROPOSED BUILDING FFE: 1070.10
(DEAD END) 2ND AVE SE
2ND AVE SE
E MAIN STREET
E MAIN STREET
MATCH EXISTING 1068.22
MATCH EXISTING 1067.67
MATCH EXISTING 1067.45
MATCH EXISTING 1068.15
MATCH EXISTING 1067.39
MATCH EXISTING 1068.08
MATCH EXISTING (TOC - 6" CURB) 1067.38
MATCH EXISTING 1066.91
MATCH EXISTING 1067.10
MATCH EXISTING 1067.30
MATCH EXISTING 1067.93
MATCH EXISTING 1068.29
MATCH EXISTING 1068.24
MATCH EXISTING 1067.78
MATCH EXISTING 1068.65
MATCH EXISTING 1069.00
MATCH EXISTING 1068.35
MATCH EXISTING 1068.36
MATCH EXISTING 1068.41
MATCH EXISTING 1068.38
MATCH EXISTING 1069.06
MATCH EXISTING 1068.81
MATCH EXISTING (TOC - 2" CURB) 1068.54
MATCH EXISTING 1069.43
MATCH EXISTING 1069.52
MATCH EXISTING 1069.55
MATCH EXISTING 1069.67
1069.60
1070.03
1070.10
1069.10
1069.03
1068.98
1067.76
1068.12
1067.42
1067.11
1067.17
1067.55 (TOC - 6" CURB)
1067.23 (TOC - DROP CURB)
1067.06
1067.20
1067.85 (TOC - DROP CURB)
1067.68
1067.55 (TOC - DROP CURB)
1067.39
1067.47
1068.17 (TOC - DROP CURB)
1068.00
1068.06
1068.67 (TOC - 8" CURB)
1068.73 (TOC - 8" CURB)
1068.92 (TOC - 8" CURB)
1069.01 (TOC - 8" CURB)
1068.82 (TOC - 8" CURB)
1068.79 (TOC - 8" CURB)
1068.35
1068.15
1068.23
1068.13
1068.20
1068.87
1068.61
1068.56
1068.54
1068.49
1068.27
1068.19
1068.10
1069.01
1069.06
1069.40
1069.07
1069.27
1069.16
1069.59
1069.56
1069.96
1069.67
1069.99
1069.88
1069.48
1069.98
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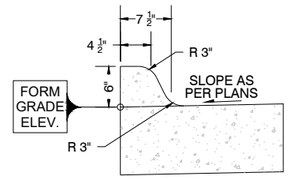
1 PCC PAVEMENT SECTION



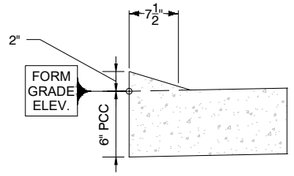
2 PCC SIDEWALK PAVEMENT SECTION



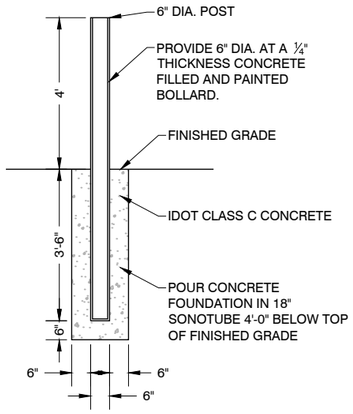
3 AGGREGATE SECTION



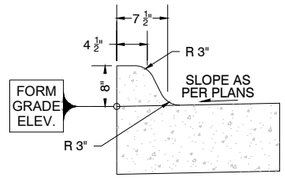
4 6" STANDARD INTERGAL PCC CURB & GUTTER



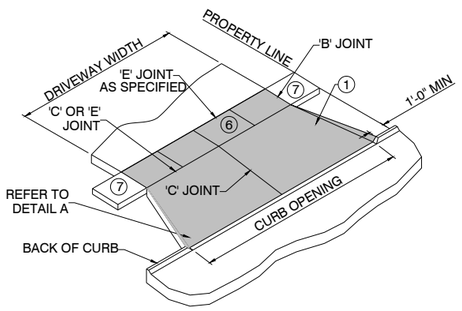
5 DRIVEWAY DROP CURB

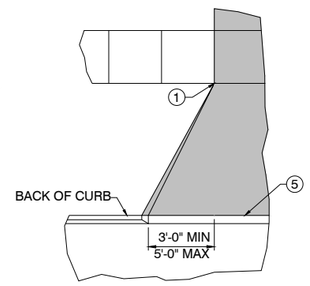


6 STEEL BOLLARD

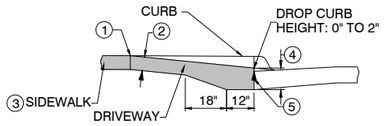


7 8" PCC CURB & GUTTER





DETAIL A



TYPICAL SECTION

① TRANSITION THE CURB HEIGHT TO 0 INCHES AT END OF TAPER/RADIUS OR AT THE FRONT EDGE OF SIDEWALK. DO NOT EXTEND RAISED CURB ACROSS SIDEWALK.

② PAVEMENT THICKNESS: 7 INCHES MINIMUM.

③ SIDEWALK THICKNESS THROUGH DRIVEWAY TO MATCH THICKNESS OF DRIVEWAY.

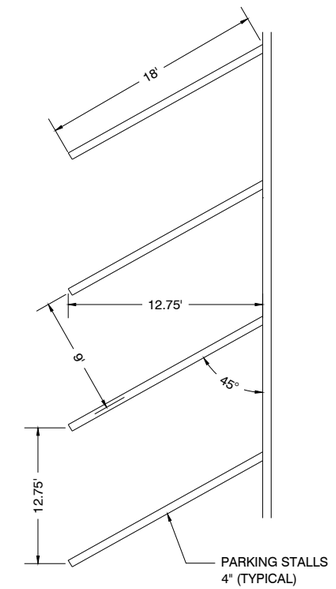
④ MATCH THICKNESS OF ADJACENT ROADWAY, 8 INCHES MINIMUM.

⑤ PROVIDE 'E' JOINT AT BACK OF CURB UNLESS 'B' JOINT IS SPECIFIED.

⑥ TARGET CROSS SLOPE OF 1.5% WITH A MAXIMUM CROSS SLOPE OF 2.0%.

⑦ IF CROSS SLOPE OF ADJACENT SIDEWALK PANEL EXCEEDS 2.0%, REMOVE AND REPLACE TO TRANSITION FROM EXISTING SIDEWALK TO SIDEWALK THROUGH DRIVEWAY. IF ELEVATION CHANGE REQUIRES A CURB RAMP, COMPLY WITH IOWA SUDAS FIGURE 7030.205; VERIFY NEED FOR DETECTABLE WARNING PANEL WITH ENGINEER.

8 CONCRETE DRIVEWAY WITH FLARES, TYPE A

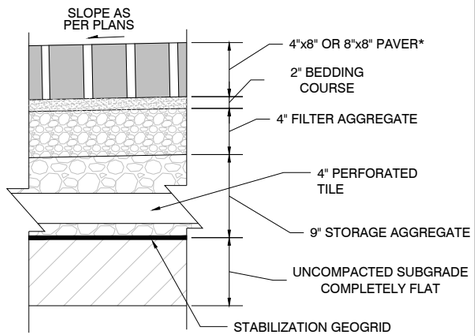


NOTES:
1. PAVEMENT MARKINGS (STRIPING) SHALL MATCH EXISTING STRIPING COLOR (YELLOW)
2. MEASUREMENTS IN PLANS ARE TO CENTER OF MARKING WIDTH.

9 ANGLED PARKING MARKING DETAIL

SUDAS REFERENCED DETAILS

FIGURE NUMBER	NAME
3010.101	TRENCH BEDDING & BACKFILL ZONES
3010.102	RIGID GRAVITY PIPE TRENCH BEDDING
3010.103	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
4010.203	SANITARY SEWER CLEANOUT
6010.514	BOXOUTS FOR GRATE INTAKES
6010.603	CASTINGS FOR GRATE INTAKES
7010.101	JOINTS
7010.102	PCC CURB DETAILS
7030.101	CONCRETE DRIVEWAY, TYPE A
7030.201	CLASSES OF SIDEWALK
8030.104	LANE CLOSURE ON LOW VOLUME STREET (SELF-REGULATING)
8030.117	SIDEWALK DETOUR
9040.102	FILTER BERM & FILTER SOCK
9040.119	SILT FENCE
9040.120	STABILIZED CONSTRUCTION ENTRANCE



NOTE:
*PAVERS SHALL BE SELECTED BY OWNER, CONTRACTOR SHALL VERIFY THICKNESS OF PAVER WITH OWNER PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL INSTALL THE PAVER'S BASE, BUT THE INSTALLATION OF THE PAVER BRICKS WILL BE (BY OTHERS)

10 PARKING LOT MONOLITHIC PERMEABLE PAVERS

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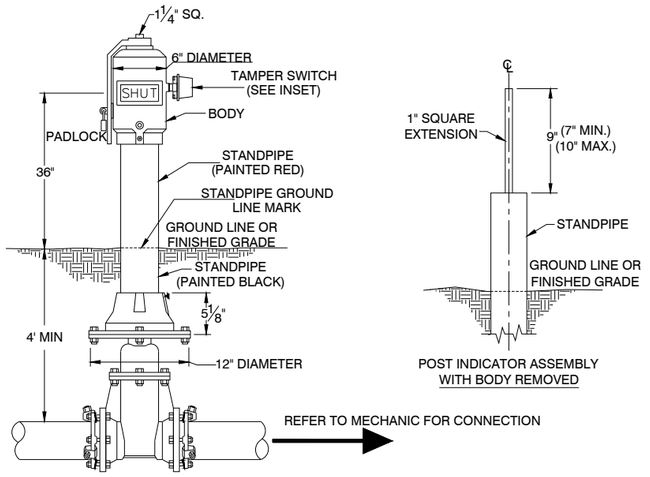
TYPICAL DETAILS

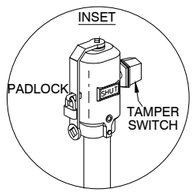
PROJECT NO. 24-DS-0627
SHEET NO. C.500

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FIELD ADJUSTMENT INSTRUCTIONS

1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
7. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
8. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-ft FROM BUILDING.
9. SHALL BE LOCATED NOT LESS THAN THE HEIGHT OF THE EXTERIOR WALL, AWAY FROM THE BUILDING





POST INDICATOR ASSEMBLY
WITH BODY REMOVED

(11) STANDARD POST INDICATOR VALVE

NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE

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STATE CENTER FIRE STATION IMPROVEMENTS
109 E MAIN ST, STATE CENTER, IOWA

TYPICAL DETAILS

PROJECT NO. 24-DS-0627
SHEET NO. C.501

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DESIGN CODES:

A. INTERNATIONAL BUILDING CODE (IBC) 2015 ADDITION & ADOPTED AMENDMENTS BY THE CITY OF STATE CENTER, IOWA
B. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-16)
C. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-16)
D. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
   1. HOT WEATHER CONCRETE- ACI 305
   2. COLD WEATHER CONCRETE- ACI 306
E. BUILDING CODE FOR MASONRY STRUCTURES (TMS 402-2016)
F. NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBER (AISI S100-16)
G. NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS 2016)
H. STEEL JOIST INSTITUTE STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, LONG-SPAN JOISTS, DEEP LONG-SPAN JOISTS, AND JOIST GIRDERS
I. MBMA METAL BUILDING SYSTEMS MANUAL 2018

DESIGN LOADS:

A. OCCUPANCY CATEGORY: "IV"
B. ROOF LIVE LOADS:
   1. GROUND SNOW — Pg = 30 psf
   2. EXPOSURE FACTOR — Ce = 1.0
   3. IMPORTANCE FACTOR — I = 1.20
   4. THERMAL FACTOR — Ct = 1.0
   5. MINIMUM ROOF SNOW LOAD — Pf = 28.8 psf
   6. DRIFTING/SLIDING SNOW — Pd = AS INDICATED ON DRAWINGS
C. FLOOR LIVE LOADS:
   1. SLABS ON GRADE — 100 psf
D. PRE-ENGINEERED BUILDING LOADS:
   1. ALL LOCATIONS: — 5 psf
      a. LIGHTING: — 1 psf
      b. INSULATION: — 1 psf
      c. SPRINKLER: — 3 psf
E. WIND LOADS:
   1. ULTIMATE WIND SPEED (3 SEC GUST) — 122 MPH
   2. IMPORTANCE FACTOR — I = 1.0
   3. EXPOSURE CATEGORY — C
   4. INTERNAL PRESSURE COEFFICIENT — ± 0.18
   5. WALLS (**1.0W**)
      a. INTERIOR: — 27 psf
      b. END: — 29 psf
   6. ROOF (**1.0W**)
      a. INTERIOR: — -33 psf
      b. EDGE: — -44 psf
      c. CORNER: — -44 psf
      d. NOTE: SUBTRACT 10 psf FOR NET UPLIFT LOADING, UNO
F. SEISMIC LOADS:
   1. SITE CLASS — D
   2. DESIGN CATEGORY — A
   3. RESISTING SYSTEM — WOOD SHEAR WALLS
   4. RESPONSE MODIFICATION — R = 6.5
   5. IMPORTANCE FACTOR — I = 1.5
   6. SHORT PERIOD — SS = 0.059 g
   7. 1-SECOND PERIOD — S1 = 0.050 g
   8. SHORT PERIOD — SDS = 0.063 g
   9. 1-SECOND PERIOD — SD1 = 0.080 g
   10. RESPONSE COEFFICIENT — CS = 0.015
   11. DESIGN BASE SHEAR — 3.1 KIPS
   12. ANALYSIS PROCEDURE: — EQUIVALENT LATERAL FORCE
G. GEOTECHNICAL REPORT
   1. BY — TEAM SERVICES
   2. REPORT NUMBER — 1-5630
   3. DATE — FEBRUARY 19, 2025
H. NET ALLOWABLE BEARING PRESSURES
   1. ISOLATED FOOTINGS — 1500 PSF — PER GEOTECH
   2. CONTINUOUS FOOTINGS — 1500 PSF — PER GEOTECH
I. FOUNDATION ITEMS
   1. FROST DEPTH BELOW GRADE — 42"
   2. OVER-EXCAVATION REQUIRED — YES, POORLY COMPACTED FILL EXISTS ON SITE AT BORING #1 OF GEOTECHNICAL REPORT, NEAR SW CORNER OF ADDITION. TO A DEPTH OF APPROXIMATELY 3'-0 BELOW EXISTING GRADE. SITE EXTENTS AND DEPTH TO BE FIELD VERIFIED DURING SPECIAL INSPECTIONS. CONTRACTOR TO OBTAIN OVER-EXCAVATION COST ON A PER-UNIT BASIS FOR BIDDING.
      a. FOOTINGS — YES, POORLY COMPACTED FILL TO BE COMPLETELY REMOVED. SEE GEOTECHNICAL REPORT.
      b. SLAB — YES, POORLY COMPACTED FILL TO BE COMPLETELY REMOVED. SEE GEOTECHNICAL REPORT.
      c. EXISTING SITE SOILS ARE NOT SUITABLE FOR FILL.
   3. DEEP FOUNDATIONS REQUIRED — NO, ASSUMED
   4. LARGE FILL DEPTH (SETTLEMENT) — NO, ASSUMED. NOTIFY EOR.

GENERAL:

A. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE LOADS AND MATERIALS INDICATED ON THE DRAWINGS. THE STRUCTURAL ENGINEER HAS ONLY REVIEWED STABILITY OF THE STRUCTURE IN ITS COMPLETED FORM. DETERMINATION OF ALLOWABLE CONSTRUCTION LOADS AND DESIGN OF CONSTRUCTION FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC. IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
B. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF SYSTEMS NOT SHOWN ON THE STRUCTURAL DOCUMENTS, INCLUDING BUT NOT LIMITED TO STEEL STAIRS, HANDRAILS, PRE-ENGINEERED WOOD BUILDING, CURTAINWALL/WINDOW WALL SYSTEMS, OR COLD-FORMED METAL FRAMING. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY OTHERS. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR CONNECTION OF THESE SYSTEMS TO THE STRUCTURE BUT THESE SYSTEM DESIGNERS SHALL CONFORM WITH THE DESIGN INTENT DEPICTED IN THE STRUCTURAL DOCUMENTS. REVIEW OF SHOP DRAWINGS FOR SUCH SYSTEMS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE STRUCTURAL NOTES.
C. ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH SUPPORTING TECHNICAL DOCUMENTATION, INCLUDING CALCULATIONS IF APPLICABLE, TO THE STRUCTURAL ENGINEER FOR REVIEW. ALTERNATES THAT DEVIATE SIGNIFICANTLY FROM THE DESIGN INTENT MAY BE REJECTED. ALTERNATES THAT REQUIRE SUBSTANTIAL REVIEW TIME WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.
D. IF APPLICABLE, EXISTING BUILDING INFORMATION SHOWN IS AS INDICATED ON EXISTING BUILDING DRAWINGS OR FIELD MEASUREMENTS BY OTHERS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF AY DISCREPANCIES PRIOR TO STARTING WORK.
E. DO NOT CUT/MODIFY ANY BEAMS, COLUMNS, JOISTS, AND SLABS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
F. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS AND METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS
G. DO NOT SCALE DRAWINGS OR MEASURE OBJECTS IN ELECTRONIC FILES TO DETERMINE DIMENSIONS. NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR REQUIREMENTS FOR ADDITIONAL DIMENSIONS NOT SHOWN.
H. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRICTEST REQUIREMENTS SHALL GOVERN.
I. CONTRACTOR SHALL NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF DISCREPENCIES WITHIN STRUCTURAL DOCUMENTS AND BETWEEN DISCIPLINES OF THE DESIGN TEAM.
J. STRUCTUREFy ENGINEERING DOES NOT PROVIDE ANY WARRANTY, EXPRESSED OR IMPLIED, FOR CAD OR BIM FILES PROVIDED TO THE CONTRACTOR NOR ANY GUARANTEE OF THE ACCURACY OF INFORMATION FURNISHED VIA ELECTRONIC FORM. IN ALL CASES, THE HARD COPY OF THE STRUCTURAL CONTRACT DOCUMENTS SUPERSEDES ANY AND ALL CAD OR BIM FILES.

SUBMITTALS:

A. SUBMITTAL OF SHOP DRAWINGS, ERECTION LAYOUTS, DETAILS, FITMENT, PLACEMENT AND PRODUCT DATA ARE REQUIRED FOR ITEMS INDICATED BELOW. SUBMITTALS MAY BE PROVIDED ELECTRONICALLY OR HARD COPY.
B. SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW PRIOR TO THE ONSET OF FABRICATION. REVIEW TIME BY ENGINEER MAY BE LONGER THAN TWO WEEKS FOR LARGE SUBMITTALS. REVIEW OF MULTIPLE SUBMITTALS CONCURRENTLY WILL EXTEND THE REVIEW TIME. IN THESE INSTANCES, CONTRACTOR SHALL SUBMIT A PRIORITIZED LIST OF SHOP DRAWINGS REQUIRING REVIEW, TO BE REVIEWED IN PRIORITIZED ORDER.
C. PRIOR TO SUBMISSION TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER AND THEREFORE MUST BE VERIFIED BY THE GENERAL CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY DIMENSIONAL DETAILS REQUESTED BY THE DETAILER AND PROVIDE THE CONTRACTOR'S REVIEW STAMP AND SIGNATURE BEFORE FORWARDING THE SUBMITTAL TO THE ENGINEER.
D. ONCE THE CONTRACTOR HAS COMPLETED HIS REVIEW, THE ENGINEER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS OF THE BUILDING AND WILL STAMP THE SUBMITTAL ACCORDINGLY. MARKUPS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM.
E. REQUIRED SUBMITTALS:
   1. CONCRETE
      a. MIX DESIGNS WITH TESTING DATA
      b. REINFORCEMENT SIZE AND PLACEMENT
   2. MASONRY
      a. GROUT AND MORTAR MIX DESIGNS
      b. UNIT MATERIAL PROPERTIES (COMPRESSIVE STRENGTH, ETC)
      c. UNIT LAYOUT
      d. REINFORCEMENT SIZE AND PLACEMENT
      e. BOND BEAM LINTEL DETAILS
   3. COLD FORMED FRAMING
      a. PRODUCT DATA DETAILS
F. DEFERRED DESIGN SUBMITTALS THAT REQUIRE DRAWINGS, DETAILS, CONNECTIONS, AND SUBMITTALS SHALL BE STAMPED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE THE PROJECT IS WITHIN.
G. DEFERRED DESIGN ITEMS SHALL BE DESIGNED TO RESIST THE LOADS INDICATED ON THE PLANS AND DETAILS INCLUDING: DEAD, LIVE, SNOW, WIND, NET UPLIFT, OTHERS INDICATED.
H. DEFERRED DESIGN SUBMITTALS ARE DESIGNED BY THE CONTRACTOR:
   1. PRE-ENGINEERED WOOD BUILDING
      a. LAYOUT AND DETAILS
      b. CALCULATIONS

SPECIAL-INSPECTIONS & TESTING:

A. SPECIAL INSPECTIONS ARE REQUIRED PER IBC CHAPTER 17 AND AS SPECIFIED IN THE SPECIAL INSPECTION STATEMENT AND PROJECT SPECIFICATIONS.
B. SPECIAL INSPECTORS SHALL BE EMPLOYED BY THE OWNER TO PROVIDE SPECIAL INSPECTIONS FOR THE PROJECT. SPECIAL INSPECTIONS MAY BE SCHEDULED AND COORDINATED BETWEEN OWNER AND CONTRACTOR.
C. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR, AND, IF NOT CORRECTED, SHALL BE REPORTED TO THE BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER.
D. SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THEIR KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE APPROVED DRAWINGS, SPECIFICATIONS, AND THE BUILDING CODE.
E. SPECIAL INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ITEMS:
   1. SOILS
   2. CONCRETE
   3. COLD FORMED METAL FRAMING

SPECIAL INSPECTION SCHEDULE: SOILS

INSPECTION TASK	REQUIRED	FREQUENCY	
		CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	X	-	X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	X	-	X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	X	-	X
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	X	-
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	X		X

SPECIAL INSPECTION SCHEDULE: CIP FOUNDATION ELEMENTS

INSPECTION TASK	REQUIRED	FREQUENCY	
		CONTINUOUS	PERIODIC
ISOLATED SPREAD CONCRETE FOOTINGS	X	-	X
CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS	X	-	X
CONCRETE FOUNDATION WALLS	X	-	X

SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION

INSPECTION TASK	REQUIRED	FREQUENCY	
		CONTINUOUS	PERIODIC
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	X	-	X
REINFORCING BAR WELDING			
1. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	X	-	X
2. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	X	-	X
3. INSPECT ALL OTHER WELDS	X	X	-
INSPECT ANCHORS CAST IN CONCRETE	X	-	X
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBER			
1. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	X	-
2. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	X	-	X
VERIFY USE OF REQUIRED DESIGN MIX	X	-	X
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	X	-
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	X	-
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	-	X
INSPECT PRESTRESSED CONCRETE FOR			
1. APPLICATION OF PRESTRESSING FORCES	X	X	-
2. GROUTING OF BONDED PRESTRESSING TENDONS	X	X	-
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	X	-	X
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	-	X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	X	-	X

SPECIAL INSPECTION SCHEDULE: COLD FORMED METAL FRAMING

INSPECTION TASK	REQUIRED	FREQUENCY	
		CONTINUOUS	PERIODIC
INSPECT MATERIAL GRADE AND THICKNESS	X	-	X
INSPECT FRAMING AND DETAILS			
1. FRAMING LAYOUT, MEMBER SIZES AND BEARING LENGTHS	X	-	X
2. BLOCKING, BRIDGING AND WEB STIFFENERS	X	-	X
3. HOLES	X	-	X
INSPECT CONNECTIONS			
1.BOLTED AND SCREWED CONNECTIONS, INCLUDING DIAMETER, LENGTH, SPACING AND EDGE DISTANCE	X	-	X
2. WELDED CONNECTIONS	X	-	X
3. PROPRIETARY HANGERS AND FRAMING ANCHORS, INCLUDING FASTENER SIZES AND QUANTITIES	X	-	X
4. TIE-DOWN ANCHORS, INCLUDING ANCHOR ROD SIZES AND FASTENER SIZES AND QUANTITIES	X	-	X
INSPECT SHEAR WALLS AND DIAPHRAGMS			
1. PANEL GRADE AND THICKNESS	X	-	X
2. STEEL STRAPPING SIZE, GRADE AND THICKNESS	X	-	X
3. FASTENER SIZE, LENGTH AND SPACING	X	-	X
4. FRAMING MEMBER SIZES AT PANEL EDGES	X	-	X
5. BLOCKING AT PANEL EDGES	X	-	X
INSPECT COLD FORMED METAL TRUSSES			
1. TEMPORARY INSTALLATION RESTRAINT/BRACING FOR TRUSSES SPANNING 60 FEET OR MORE	X	-	X
2. PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING FOR TRUSSES SPANNING 30 FEET OR MORE	X	-	X

CONCRETE AND REINFORCEMENT:

A. CONCRETE SHALL CONFORM TO CHAPTER 19 OF THE IBC AND BE PLACED IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)" AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)" U.N.O.
B. MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'_c):
   1. FOOTINGS — 3,500 psi
   2. FOUNDATION WALLS — 4,000 psi
   3. ALL OTHER CONCRETE — 4,000 psi
C. MAXIMUM WATER/CEMENT RATIO FOR GIVEN f'_c:
   1. 3,500 psi — 0.50
   2. 4,000 psi — 0.45
   3. 5,000 psi — 0.40
D. CONCRETE SLUMP:
   1. WITHOUT WATER REDUCER — 3"-5"
   2. WITH WATER REDUCER — 6"-8"
E. AIR CONTENT:
   1. EXPOSED TO EARTH OR WEATHER — 6% PLUS OR MINUS 1.5%
   2. ALL OTHER CONCRETE — NATURAL
F. MATERIAL REQUIREMENTS:
   1. PORTLAND CEMENT — ASTM C595, TYPE IL
   2. NORMAL WEIGHT AGGREGATES — ASTM C33
   3. MAXIMUM AGGREGATE SIZE — 1"
   4. POTABLE WATER — ASTM C94
   5. DEFORMED BARS — ASTM A615, GRADE 60
   6. WELDED DEFORMED BARS — ASTM A706, GRADE 60
   7. WELDED WIRE FABRIC (MATS ONLY) — ASTM A185
G. CONCRETE COVER OVER REINFORCING:
   1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3"
   2. EXPOSED TO EARTH OR WEATHER — 2"
   3. NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH THE GROUND — 2"
H. FLY ASH SHALL NOT EXCEED 15% OF ALL CEMENTITIOUS MATERIALS FOR ALL CONCRETE.
I. ALL ADMIXTURES TO BE INCLUDED IN THE CONCRETE MIX DESIGN SUBMITTAL FOR REVIEW/APPROVAL. NO ADMIXTURES TO BE USED WITHOUT APPROVAL BY STRUCTURAL ENGINEER.
J. NO ADMIXTURES OR MATERIALS CONTAINING CALCIUM CHLORIDE, SALT OR ANTIFREEZE IS PERMITTED TO BE USED IN CONCRETE.
K. DETAIL AND PLACE REINFORCING STEEL IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) U.N.O.
L. REINFORCING STEEL SHALL BE SECURED IN PLACE AND PROPERLY SUPPORTED PRIOR TO PLACING CONCRETE.
M. REINFORCING SPLICES SHALL HAVE CLASS B TENSION SPLICES U.N.O.
N. CORNER BARS TO BE PROVIDED AT ALL INTERSECTIONS OF HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. LAP CORNER BARS 2'-0" EACH SIDE, MATCH SIZE AND SPACING OF SPACING OF HORIZONTAL BARS
O. VERTICAL REINFORCING TO BE CONTINUOUS WITHOUT SPLICES, U.N.O.
P. HORIZONTAL REINFORCEMENT TO BE CONTINUOUS THROUGH PILASTERS, COLUMNS, AND WALL INTERSECTIONS.
Q. PROVIDE 2 @ #5 x4'-0" DIAGONAL BARS AT EACH OPENING CORNER IN WALLS AND FLOOR SLABS, U.N.O. DIAGONAL BARS SHALL BE CENTERED AT OPENING CORNERS.
R. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER, U.N.O.
S. SLABS-ON-GRADE:
   1. POORLY COMPACTED FILL SOILS THAT REQUIRE FULL OVER EXCAVATION AND BACKFILL ARE KNOWN TO BE IN THE AREA. EXISTING SITE SOILS ARE NOT SUITABLE FOR BACKFILL. THE AREA NEAR THE SW CORNER OF THE ADDITION, BORING #1 IN THE GEOTECHNICAL REPORT, IS WHERE THESE SOILS WERE FOUND. EXTENTS ON THE SITE ARE UNKNOWN, BUT ARE TO BE DETERMINED DURING SPECIAL INSPECTIONS. CONTRACTOR TO PROVIDE COST ON A PER-UNIT BASIS DURING BIDDING.
   2. NEW IMPORTED BACKFILL TO BE COMPACTED IN 12" LOOSE LIFTS WHERE LARGE CONSTRUCTION EQUIPMENT IS USED, AND 4" LOOSE LIFTS WHERE MANUAL EQUIPMENT IS USED.
   3. NEW SLAB CONSTRUCTION SHALL BE 6" THICK OVER VAPOR BARRIER (SEE ARCHITECT) OVER NEW COMPACTED BACKFILL. SLAB SHALL BE REINFORCED WITH #4 @ 18" O.C. PLACED ON CHAIRS TO LOCATE THE REINFORCEMENT 1 1/2" FROM THE TOP OF SLAB. LOCATED AT MID-SLAB THICKNESS AT CONSTRUCTION JOINTS.
   4. TOPPING SLAB OVER EXISTING SLAB ON GRADE SHALL BE 4" THICK OVER BOND BREAKER. SLAB SHALL BE REINFORCED WITH 6x6 W2.9xW2.9 WWF PLACED ON CHAIRS TO LOCATE THE REINFORCEMENT 1 1/2" AWAY FROM THE TOP OF SLAB. LOCATED AT MID-SLAB THICKNESS AT CONSTRUCTION JOINTS.
   5. WET BURLAP CURE IS STRONGLY RECOMMENDED FOR ALL SLABS ON GRADE AND NEW CONCRETE TOPPING SLAB. ALTERNATES MAY BE PROVIDED BY THE CONTRACTOR.
   6. PROVIDE 1/2" EXPANSION JOINT BETWEEN SLABS-ON-GRADE AND ALL COLUMNS, WALLS, AND VERTICAL SURFACES
   7. PROVIDE 1/8" X 1/4" DEEP CONTROL JOINTS OR FULL DEPTH CONSTRUCTION JOINTS IN SLABS-ON-GRADE. MAXIMUM SPACING IN OF CONTROL/CONSTRUCTION JOINTS TO BE 30 TIMES THE SLAB THICKNESS.
   8. CONSTRUCTION JOINTS IN SLABS-ON-GRADE SHALL BE AT CONTROL JOINT LOCATIONS AS IDENTIFIED ABOVE WHEN ENTIRE FLOOR SLAB IS NOT PLACED IN ONE SEQUENCE. SEE DETAILS FOR PLATE DOWEL REQUIREMENTS.
   9. SEE ARCHITECTURAL DRAWINGS FOR SLAB SLOPES AND DEPRESSIONS.
   10. USE IMPORTED SAND FOR EXPOSED SLAB ON GRADE AND FOUNDATION WALLS.
T. FLOOR FLATNESS:
   1. GENERAL / OFFICE (CARPET):
      A. OVERALL FF: 25
      B. OVERALL FL: 20
      C. LOCAL FF: 35
      D. LOCAL FL: 20

PRE-ENGINEERED BUILDING:

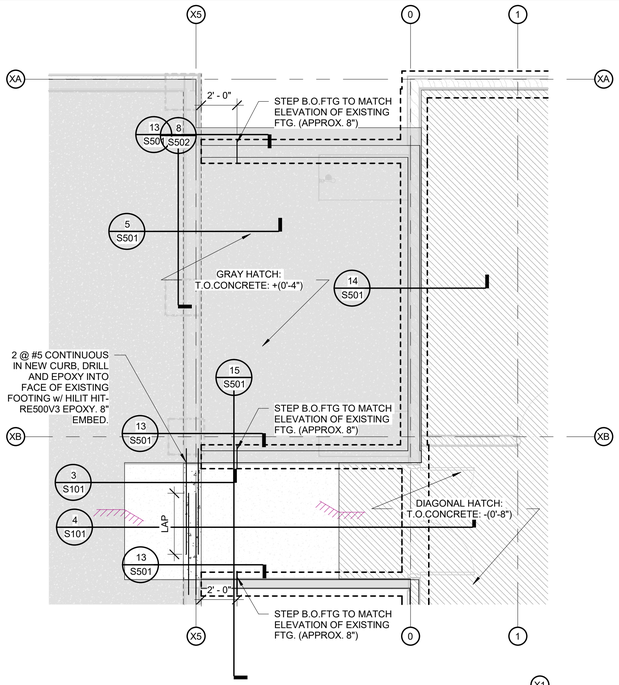
A. PRE-ENGINEERED BUILDINGS (PEB) SHALL CONFORM TO CHAPTER 22 OF THE IBC AND APPLICABLE BUILDING SYSTEMS MANUAL.
B. PEB FRAMING MATERIALS AND STRENGTHS:
   1. BY PEB MANUF
C. CONNECTIONS SHALL BE AS DIRECTED IN PEB DOCUMENTS.
D. TEMPORARY BRACING OF STRUCTURAL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE ERECTION PROCESS. CONSTRUCTION SHALL CONFORM TO OSHA GUIDELINES.
E. NOTIFY SUPPLIER AND ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS. WRITTEN APPROVAL IS REQUIRED BEFORE ANY FIELD CORRECTIONS ARE MADE.
F. PROVIDE ONE SHOP COAT OF PRIMER ON ALL STEEL EXCEPT FOR ITEMS TO BE HOT-DIP GALVANIZED OR SPRAY FIREPROOFED.
G. DIMENSIONS, BUILDING SIZE, COLUMN LOCATIONS, AND WALL SIZE TO MATCH AND BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. DEVIATION REQUESTS MUST BE SUBMITTED FOR APPROVAL PRIOR TO CHANGES BEING MADE.
H. ALL COMPONENTS AND ASSEMBLIES TO BE DESIGNED AND DETAILED BY THE MANUFACTURER TO RESIST THE LOADING ON THE DRAWINGS. NOTE THAT SOME MUNICIPALITIES DEVIATE SNOW AND OTHER LOADING FROM THE IBC AND SHALL BE INCLUDED IN THE DESIGN.
I. MAXIMUM ALLOWABLE DEFLECTION LIMITS:
   1. ARCHITECTURAL
      a. JOISTS/BEAMS: — SPAN / 240
      b. ROOF PANELS: — SPAN / 180
      c. WALL FRAMING: — SPAN / 240
      d. WALL FRAMING WITH BRICK: — SPAN / 600
      e. RIGID FRAME DRIFT: — HEIGHT / 400
J. MEMBERS SUPPORTING BRICK AND OTHER BRITTLE CLADDING SHALL BE DESIGNED FOR HORIZONTAL AND VERTICAL DEFLECTION: SPAN / 600.
K. DEFLECTION OF PRIMARY MEMBERS SHALL BE ACCOMMODATED WITHIN DESIGN OF OTHER FRAMING COMPONENTS AND SYSTEMS.
L. ADJACENT BUILDING IS PRESENT:
   1. YES. A BUILDING EXPANSION JOINT IS REQUIRED BETWEEN THE BUILDING TO ACCOUNT FOR 2" OF BUILDING DIFFERENTIAL MOVEMENT UNLESS PEB SUPPLIER ENGINEER DESIGNS THE BUILDINGS TO CONNECT, ACT, AND MOVE CONGRUENTLY.

COLD FORMED METAL FRAMING (CFMF)

A. COLD FORMED METAL FRAMING SHALL CONFORM TO CHAPTER 22 OF THE IBC.
B. ALL COLD FORMED METAL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY AISI.
C. COLD FORM METAL FRAMING MATERIALS AND STRENGTHS:
   1. 18-GAGE OR THINNER: ASTM A653, 33 KSI
   2. 16-GAGE OR THICKER: ASTM A653, 50 KSI
D. ALL MEMBERS TO BE HOT-DIP GALVANIZED STEEL. COATING TO CONFORM TO ASTM A924 DESIGNATION G60. IN HIGHLY CORROSIVE ENVIRONMENTS G90 SHALL BE USED.
E. THESE STRUCTURAL DRAWINGS TYPICALLY SHOW ONLY THE PRIMARY STRUCTURAL FRAMING ELEMENTS OF THE SYSTEM. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING TRACKS, WEB STIFFENERS, BLOCKING, HEADERS, CLIP ANGLES, REINFORCEMENTS, FASTENING DEVICES, BRACING, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A COMPLETE FRAMING SYSTEM.
F. THE COLD FORMED METAL STUD FRAMING CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF COLD FORMED METAL FRAMING IF INDICATED IN THE SUBMITTALS SECTION OF THE GENERAL NOTES. IF LISTED, SHOP DRAWINGS SHOWING PLANS, ELEVATIONS, SECTIONS AND DETAILS SHALL BE SUBMITTED WITH CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE THE PROJECT IS LOCATED.
G. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS OF GALVANIZED FRAMING SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH RUST INHIBITIVE PAINT.
H. SCREWS WHICH ARE REMOVED SHALL BE REPLACED BY A SCREW OF A LIGHTER DIAMETER WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLE. REPLACE ALL SCREWS WHICH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8" ON CENTER AND WITH A MINIMUM FREE EDGE DISTANCE OF 1/2".
I. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN COLD-FORMED METAL FRAMING WORK. ALL WELDING SHALL USE E60 SERIES ELECTRODES AND SHALL CONFORM WITH THE LATEST AMERICAN WELDING SOCIETY STANDARDS.
J. DO NOT CUT OR OTHERWISE DAMAGE LOAD-BEARING STUDS, JOISTS, OR RAFTERS DURING INSTALLATION OF WORK BY OTHER TRADES.
K. EXTERIOR WALL STUDS:
   1. THE MINIMUM SIZE AND SPACING SHALL BE AS INDICATED IN THE PLANS.
   2. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, AND BEAM BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
   3. WALL STUD BRIDGING AS RECOMMENDED BY THE STUD MANUFACTURERS SHALL BE INSTALLED TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION AT 4'-0" MAX INTERVALS. WALLS 8'-0" AND SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID-HEIGHT. ADDITIONALLY, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND WHERE NOTED ON THE PLANS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON DRAWINGS.
   4. BRIDGING: FASTBRIDGE CLIPS FB43 WITH 2 @ #10 SCREWS PER CLIP, UNO, OR UNLESS PART OF DEFERRED SUBMITTAL.
   5. WALL STUDS SHALL BE LIMITED IN DEFLECTION TO:
      a. WALLS WITH BRICK: HEIGHT/600
      b. WALLS WITH STUCCO: HEIGHT/360
      c. OTHER WALLS: HEIGHT/240
   6. WALL STUDS SHALL ALIGN WITH FLOOR AND ROOF FRAMING MEMBERS IN LOAD-BEARING STUD APPLICATIONS.
L. JOISTS AND RAFTERS:
   1. THE MINIMUM SIZE AND SPACING SHALL BE AS INDICATED IN THE PLANS.
   2. JOISTS SHALL BE REINFORCED WITH WEB STIFFENERS AT ALL LOAD-BEARING LOCATIONS.
   3. JOIST FLANGES MUST BE FASTENED TO ALL SUPPORTS.
   4. STRAPPING OR FULL-HEIGHT BLOCKING SHALL BE LOCATED AT 8'-0" ON CENTER MAXIMUM WHEN SHEATHING IS APPLIED ONLY TO THE COMPRESSION FLANGE. IF STRAPPING IS USED, FULL-HEIGHT BLOCKING BETWEEN JOISTS AT 10'-0" ON CENTER IS REQUIRED ALONG THE LENGTH OF THE STRAPPING.
   5. FLOOR JOISTS SHALL BE LIMITED IN DEFLECTION TO:
      a. TOTAL LOAD: SPAN/240
      b. LIVE LOAD WITH BRITTLE FINISH ON TOP: SPAN/480
      c. LIVE LOAD: SPAN/360
M. BUILT-UP MEMBERS (MULTIPLE MEMBERS) MUST BE FASTENED TOGETHER TO ACT AS ONE UNIT TO RESIST THE APPLIED LOADING. THIS IS TO BE DESIGNED BY THE COMPONENT DESIGNER, UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

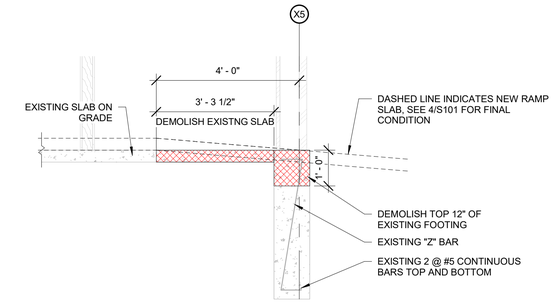
FOUNDATIONS:

A. EXCAVATIONS OF BURIED ITEMS



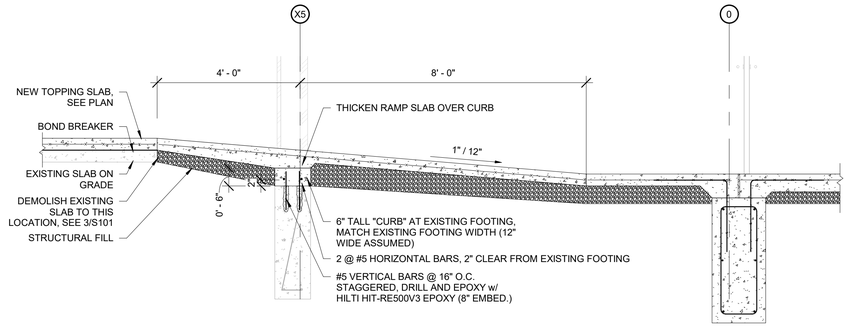
2 - FOUNDATION PLAN - LINK

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



③ LONGITUDINAL SECTION THROUGH RAMP-DEMOLITION PLAN

1/2" = 1'-0"

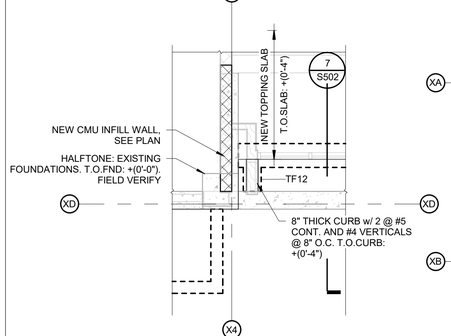


④ LONGITUDINAL SECTION THROUGH RAMP

1/2" = 1'-0"

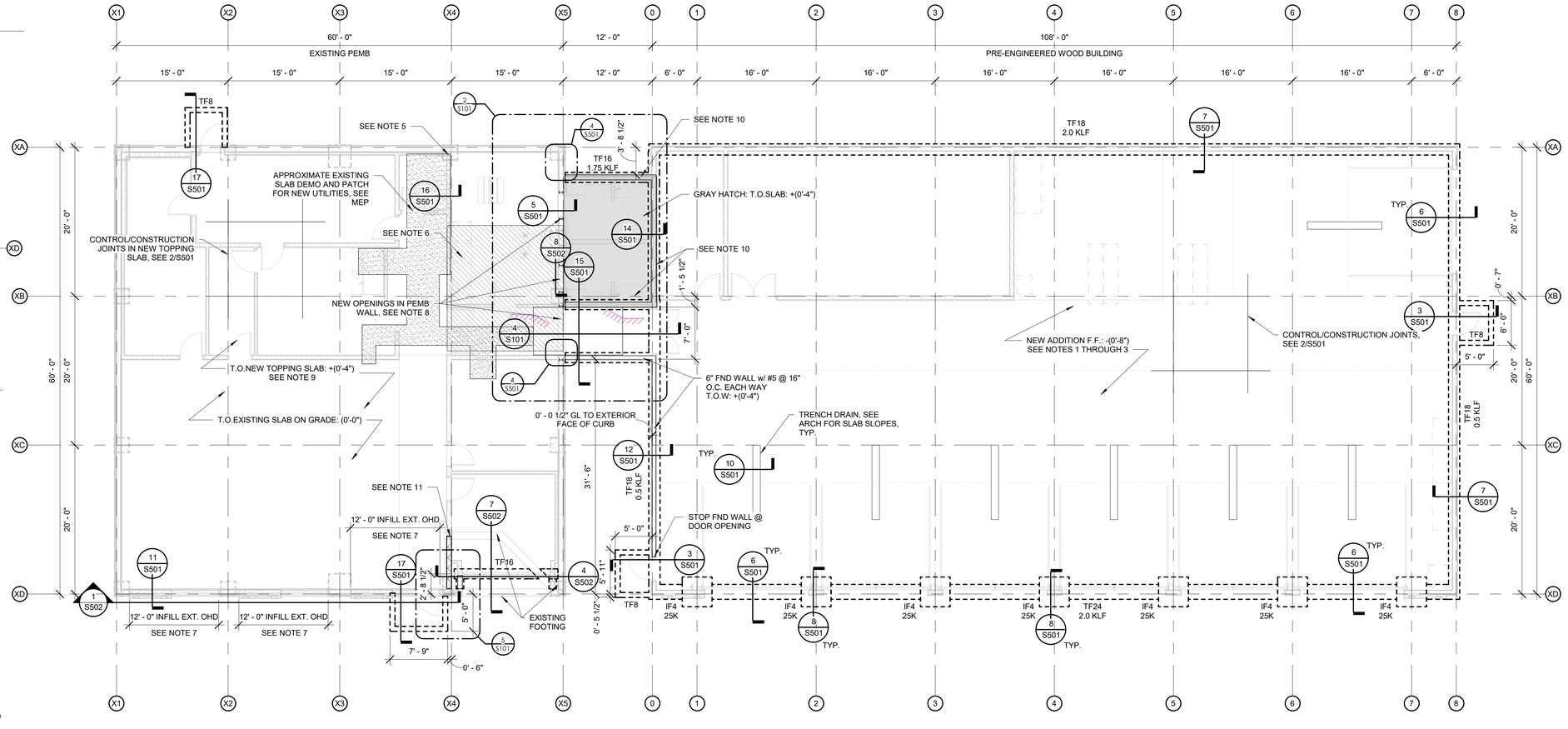
CONTINUOUS FOOTING SCHEDULE			
TYPE	WIDTH	THICKNESS	REINFORCING
TF8	0' - 8"	3' - 6"	2 @ #5 TOP & BOTTOM CONT. w/ #4 VERT. @ 24" OC
TF12	1' - 0"	3' - 6"	2 @ #5 TOP & BOTTOM & #4 @ MID. CONT. w/ #4 VERT. @ 24" OC
TF16	1' - 4"	3' - 6"	2 @ #5 TOP & BOTTOM & #4 @ MID. CONT. w/ #4 VERT. @ 24" OC
TF18	1' - 6"	3' - 6"	2 @ #5 TOP & BOTTOM & 2 @ #4 @ MID. CONT. w/ #3 TIES. @ 24" OC
TF24	2' - 0"	3' - 6"	2 @ #5 TOP & BOTTOM & 2 @ #4 @ MID. CONT. w/ #3 TIES. @ 24" OC

ISOLATED FOOTING SCHEDULE				
TYPE	WIDTH	LENGTH	THICKNESS	REINFORCING
IF4	4' - 0"	4' - 0"	3' - 6"	4 @ #5 VERT. w/ #3 TIES @ 12" OC



5 - WING WALL FND @ ENTRY

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



FOUNDATION PLAN

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

NOTES:

1. F.F. ELEVATION:
   - +(0'-0") CORRESPONDS TO TOP OF EXISTING SLAB ON GRADE AND CIVIL ELEVATION 1069.77'. VERIFY w/ CIVIL DRAWINGS.
   - +(0'-4") CORRESPONS TO TOP OF NEW TOPPING SLAB AND CIVIL ELEVATION 1070.1'
   - -(0'-8") CORRESPONDS TO TOP OF SLAB @ ADDITION AND CIVIL ELEVATION 1069.1'
2. SLAB ON GRADE IS INTENDED TO HAVE SEALED SURFACE. VERIFY WITH ARCHITECTURAL DRAWINGS. SEE GENERAL NOTES FOR OVERALL AND LOCAL FF & FL NUMBERS
3. 6" SLAB ON GRADE w/ #4 BARS @ 18" O.C. EACH WAY. SEE GENERAL NOTES AND DETAIL 1/SS01 FOR SUBGRADE PREPARATION.
4. T.O.FTG. TO BE -(1'-4") U.N.O.
5. CAREFUL SLAB DEMOLITION IS CRITICAL @ HAIRPIN LOCATIONS. HYDRO DEMOLITION AND/OR USE OF HAND TOOLS IS REQUIRED. CONTRACTOR TO IMPLEMENT X-RAY OR SIMILAR TESTING PROCEDURES TO LOCATE REINFORCEMENT PRIOR TO DEMOLITION
6. HATCHED AREA INDICATES APPROXIMATE LOCATION OF EXISTING MEZZANINE TO BE DEMOLISHED. CMU WALL TO BE DEMOLISHED, CARE TO BE TAKEN @ HAIRPIN LOCATIONS. SEE NOTE 5. EXISTING W SHAPES AND ASSOCIATED CONNECTION ANGLES TO BE REMOVED
7. 600S200-54 STUDS @ 16" O.C. 1/2" APA RATED SHEATHING TO OUTSIDE FACE OF STUDS w/ #8 SCREWS @ 6" O.C. PERIMETER AND 12" O.C. FIELD
8. 2 @ 600S200-54 STUDS EACH SIDE OF NEW OPENING. EXTEND STUDS TO FIRST WALL GIRT ABOVE OPENING. SEE 8/S502
9. NEW 4" THICK CONCRETE TOPPING OVER EXISTING SLAB ON GRADE. REINFORCE TOPPING SLAB w/ 6x6 W2.9XW2.9 W.W.F. BOND BREAKER TO BE APPLIED TO TOP OF EXISTING SLAB ON GRADE PRIOR TO PLACING TOPPING SLAB
10. 8" THICK CONCRETE FOUNDATION WALL w/ #5 @ 16" O.C. EACH WAY. T.O.W: -(0'-4")
11. NEW 8" CMU WALL w/ #5 VERTICAL IN GROUTED CELLS AT EACH END AND 48" O.C. TOP OF WALL SLOPES WITH EXISTING FRAME ABOVE. SEE DETAIL 5/S502 FOR BASE CONNECTION AND 6/S502 FOR TOP CONNECTION

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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET, STATE CENTER, IA50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 12/18/2025

PHASE: CD

SHEET NAME: FOUNDATION PLAN

S101

CFMF BOX HEADER SCHEDULE			
MARK	VERTICAL MEMBERS	HORIZONTAL MEMBERS	JAMB
H1	2 @ 800S162-54	2 @ 600T200-54	2 @ 600S162-54 (KING STUDS)

CFMF BOX HEADER NOTES

1. HEADERS ARE FOR THE WALL FRAMING BELOW THE LEVEL SHOWN
2. EACH MEMBER OF MULTI MEMBER HEADERS/JAMBS TO BE FASTENED TOGETHER WITH 2 @ #12 SCREWS @ 12" O.C. U.N.O.

LINTEL SCHEDULE	
MARK	SIZE
L1	2 @ L3 1/2x3 1/2x5/16

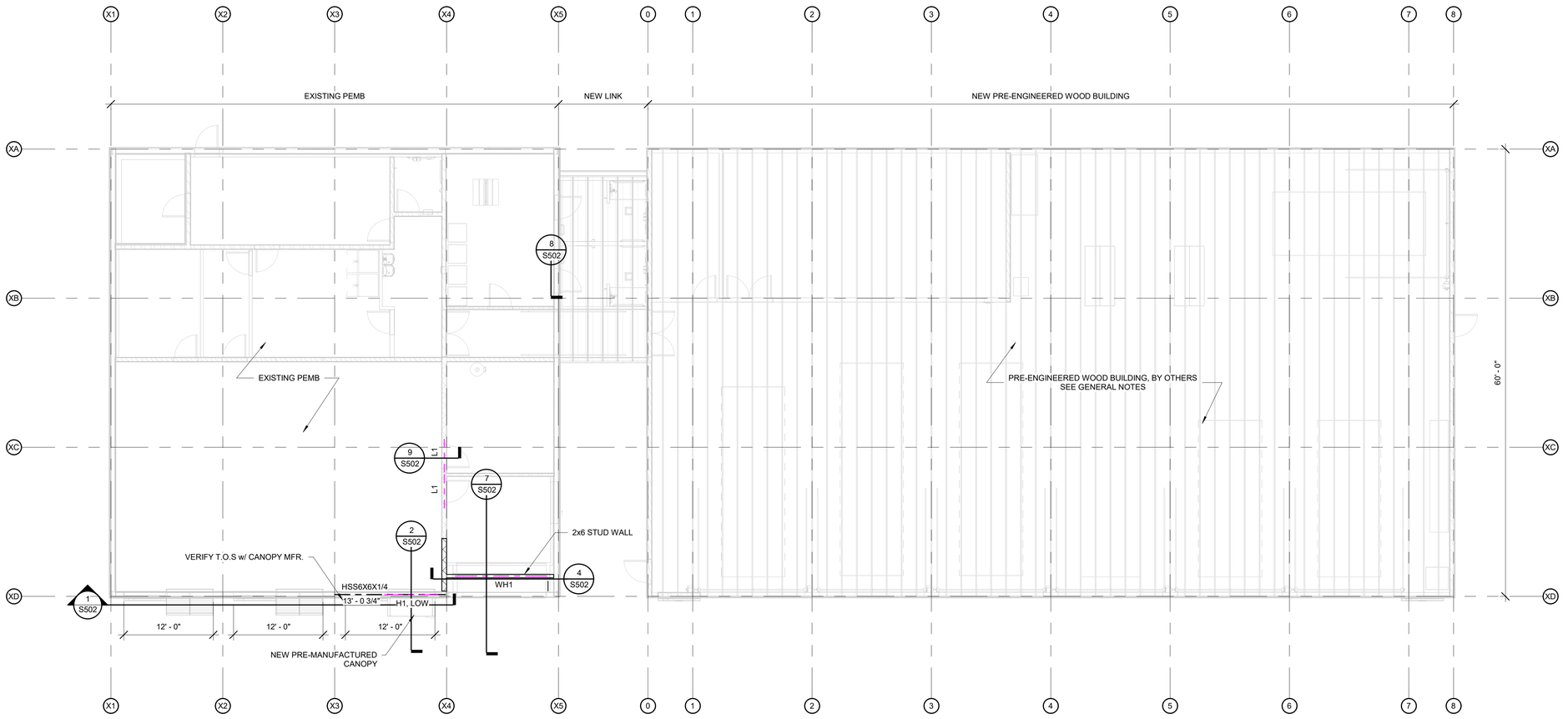
LINTEL NOTES

1. LINTELS ARE FOR THE WALL FRAMING BELOW THE LEVEL SHOWN
2. LINTELS TO BEAR A MINIMUM OF 1" PER FOOT OF OPENING LENTH OR 6", EACH END
3. SEE GENERAL NOTES FOR LINTEL NOT CALLED OUT ON PLAN

WOOD HEADER SCHEDULE	
MARK	SIZE
WH1	3 @ 11 7/8" LVL

WOOD HEADER NOTES

1. HEADERS ARE FOR WALL FRAMING BELOW THE LEVEL SHOWN
2. ALL HEADERS TO BE SUPPORTED BY A MINIMUM OF (3) STUDS U.N.O. (1 KING, 2 JACK)
3. ALL MULTI-PLY FLUSH (F) HEADERS TO BE FASTENED TOGETHER w/ 3 ROWS OF SIMPSON SDW2250 SCREWS @ 12" O.C. U.N.O.



FRAMING PLAN

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

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DES MOINES, IOWA 50265

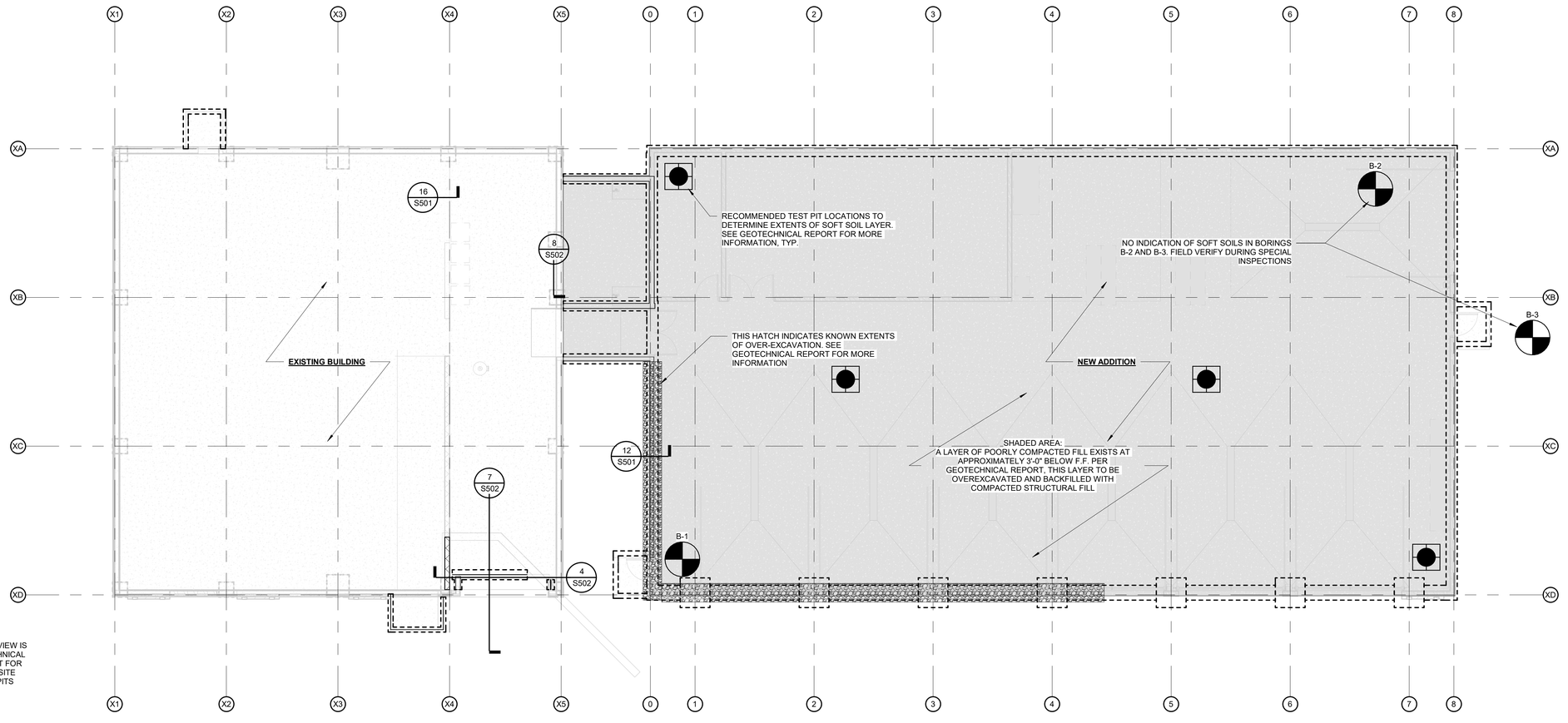
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STATE CENTER FIRE & EMS

PRINT DATE:
12/18/2025

PHASE:
CD
SHEET NAME:
FRAMING PLAN

S102



NOTES:

1. INFORMATION SHOWN ON THIS PLAN VIEW IS TO BE USED IN ADDITION TO GEOTECHNICAL REPORT. SEE GEOTECHNICAL REPORT FOR MORE INFORMATION REGARDING ON-SITE SOILS, OVEREXCAVATION, AND TEST PITS

OVEREXCAVATION PLAN

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

STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

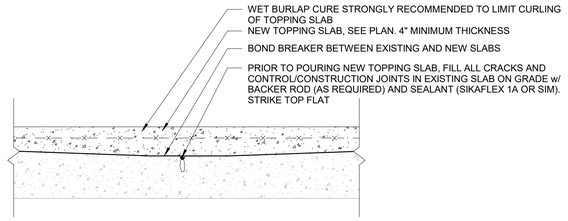
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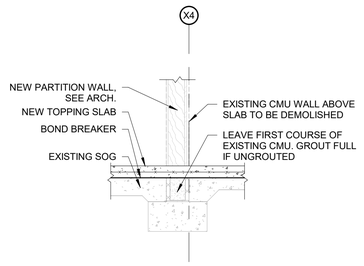
PRINT DATE: 12/18/2025

PHASE: CD
SHEET NAME: OVEREXCAVATION PLAN

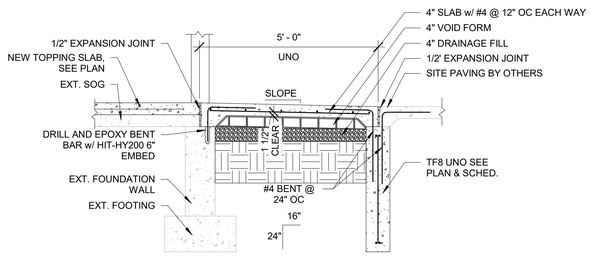
S201



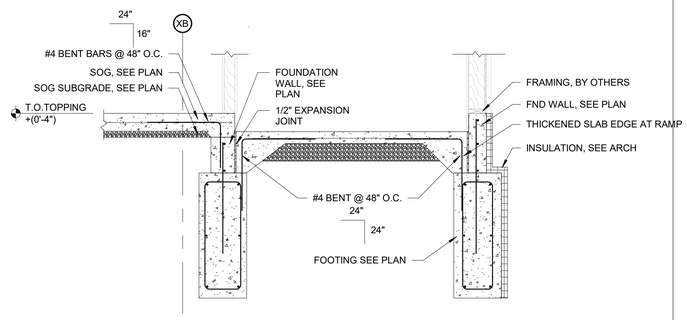
18 TOPPING SLAB OVER EXT. SOG
1" = 1'-0"



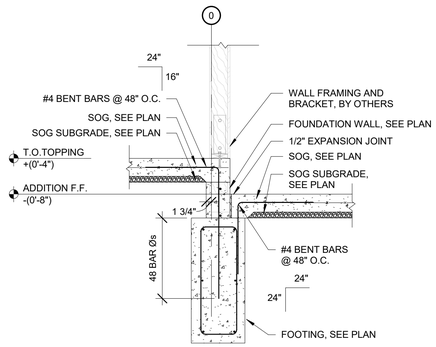
16 EXIST CMU WALL DEMO
1/2" = 1'-0"



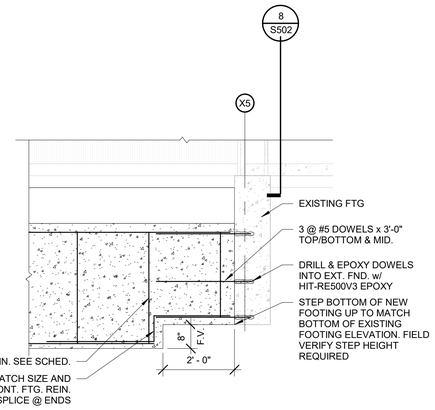
17 2040B STOOP @ EXT FOOTING
1/2" = 1'-0"



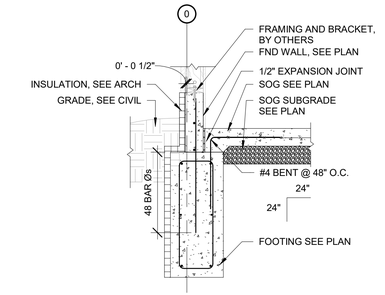
15 RAMP CROSS SECTION
1/2" = 1'-0"



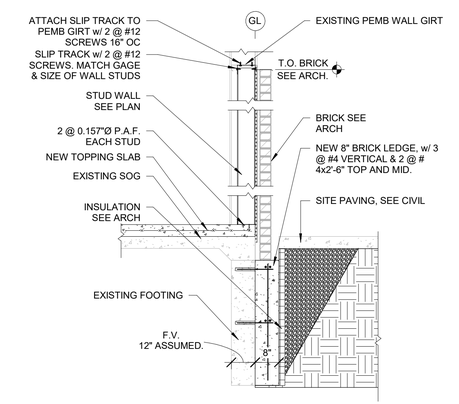
14 SLAB STEP @ CONNECTOR BAY
1/2" = 1'-0"



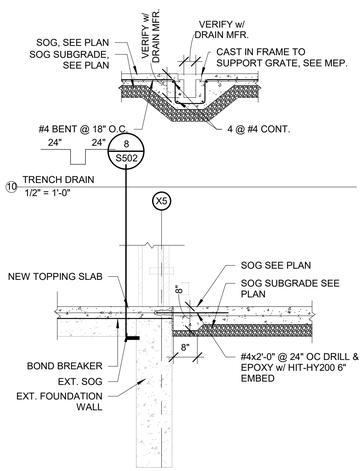
13 FTG STEP @ EXISTING
1/2" = 1'-0"



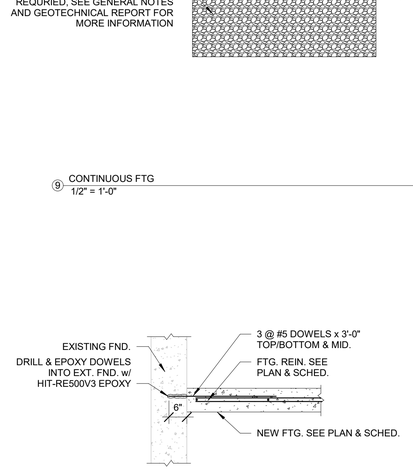
12 CURB DETAIL
1/2" = 1'-0"



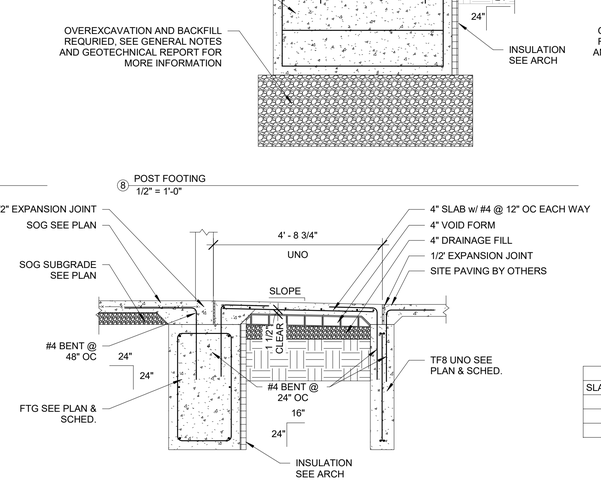
11 EXIST. PEMB CONTINUOUS FOOTING w/ BRICK
1/2" = 1'-0"



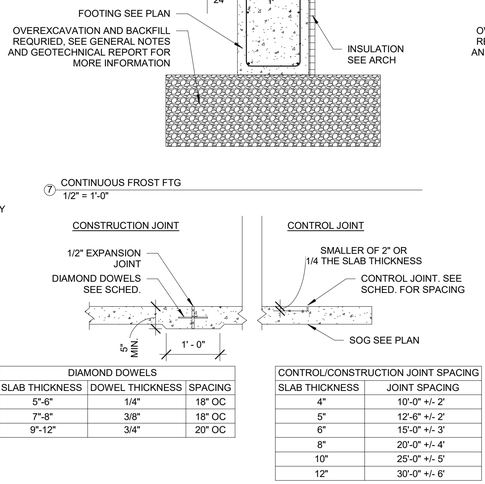
10 TRENCH DRAIN
1/2" = 1'-0"



9 CONTINUOUS FTG
1/2" = 1'-0"



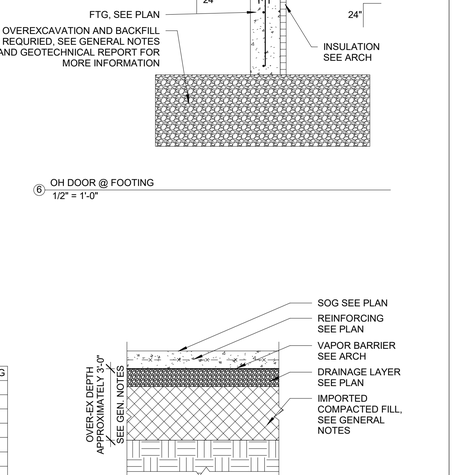
8 POST FOOTING
1/2" = 1'-0"



DIAMOND DOWELS		
SLAB THICKNESS	DOWEL THICKNESS	SPACING
5"-6"	1/4"	18" OC
7"-8"	3/8"	18" OC
9"-12"	3/4"	20" OC

CONTROL/CONSTRUCTION JOINT SPACING	
SLAB THICKNESS	JOINT SPACING
4"	10'-0" +/- 2'
5"	12'-6" +/- 2'
6"	15'-0" +/- 3'
8"	20'-0" +/- 4'
10"	25'-0" +/- 5'
12"	30'-0" +/- 6'

7 CONTINUOUS FROST FTG
1/2" = 1'-0"



6 OH DOOR @ FOOTING
1/2" = 1'-0"

5 SLAB TIE IN
1/2" = 1'-0"

4 TF8,12,16 FOOTING TIE IN
1/2" = 1'-0"

3 STOOP FOOTING
1/2" = 1'-0"

2 CONTROL/CONSTRUCTION JOINTS
3/4" = 1'-0"

1 SOG SUBGRADE
3/4" = 1'-0"

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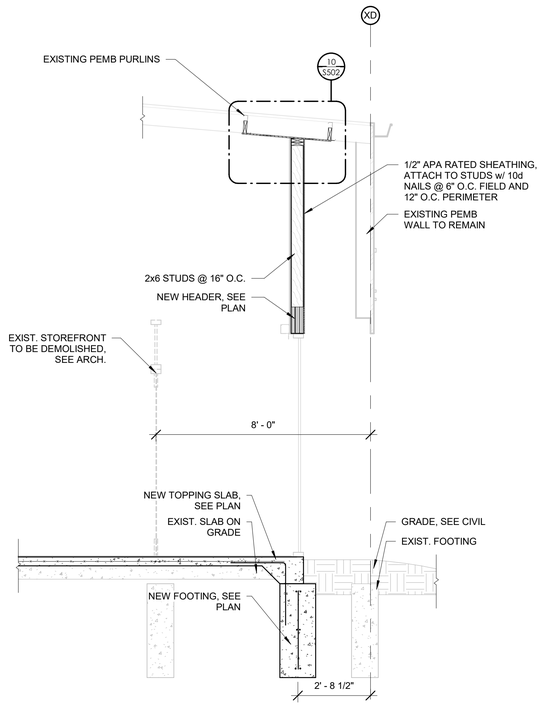
STUDIO MELEE
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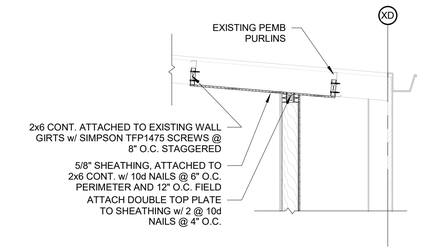
S501



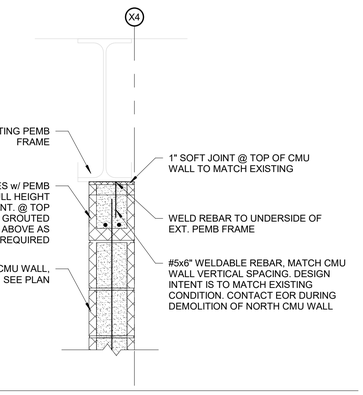
7 SECTION @ NEW ENTRY
3/8" = 1'-0"



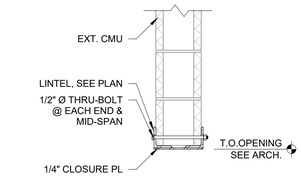
11 CFMF STUD CONFIGURATIONS CONTRACTOR OPTION
1 1/2" = 1'-0"



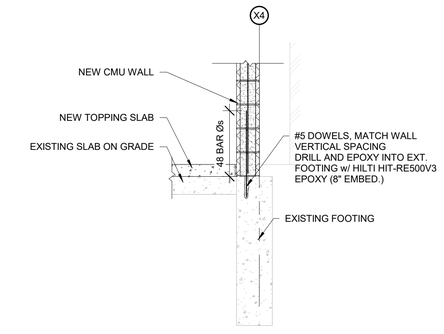
10 TOP OF WOOD WALL @ EXT. PEMB
1/2" = 1'-0"



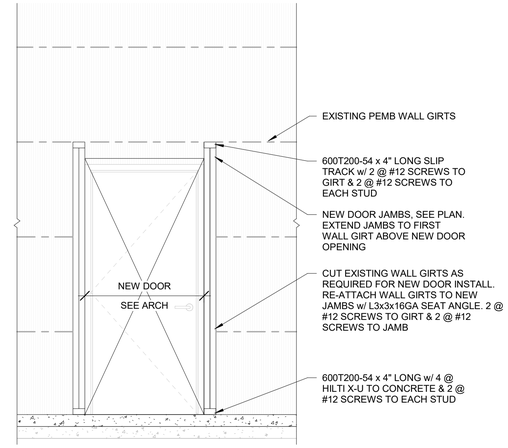
6 T.O.CMU WALL
1" = 1'-0"



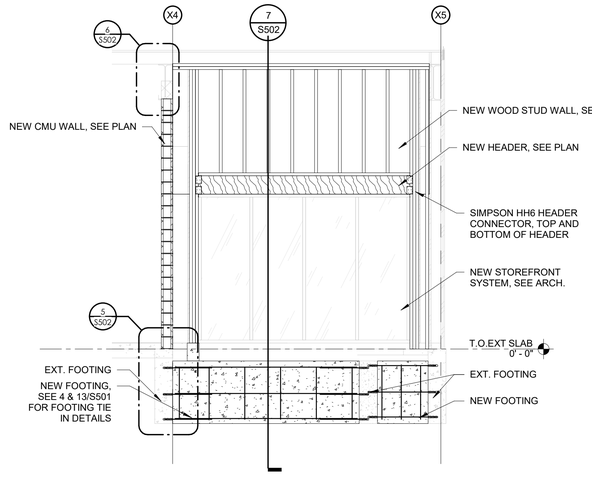
9 L1 LINTEL
1" = 1'-0"



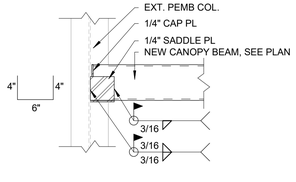
5 NEW CMU @ EXT. FOOTING
1/2" = 1'-0"



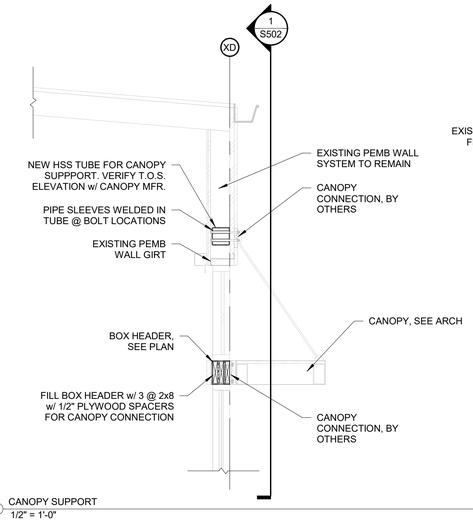
8 NEW DOOR OPENINGS
1/2" = 1'-0"



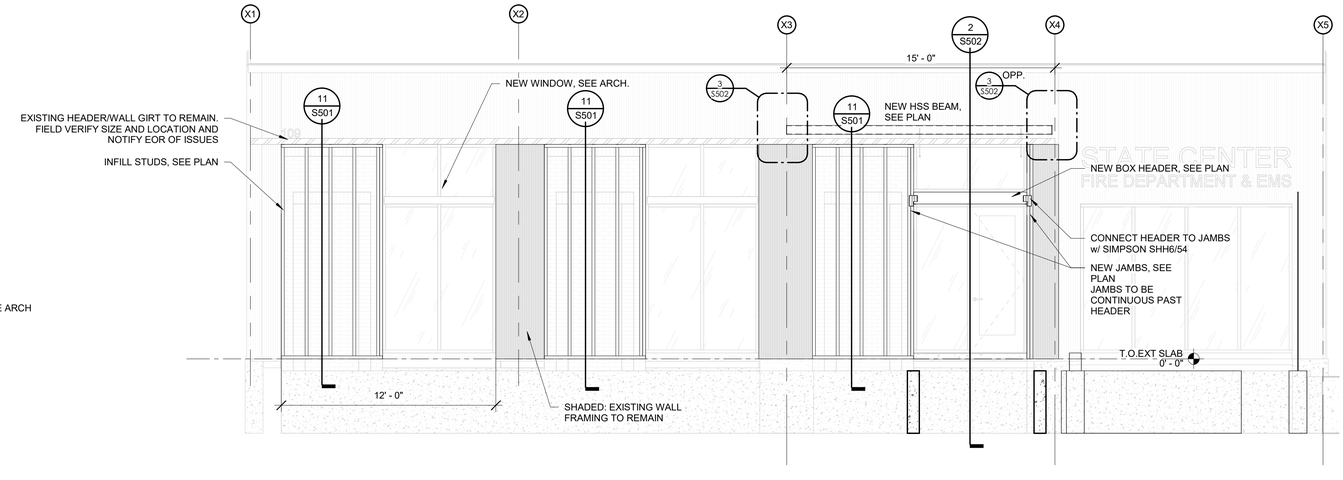
4 NEW FRAMING @ ENTRY
1/4" = 1'-0"



3 HSS TO EXISTING COLUMN
1" = 1'-0"



2 CANOPY SUPPORT
1/2" = 1'-0"



1 EXISTING OHD INFILL
1/4" = 1'-0"

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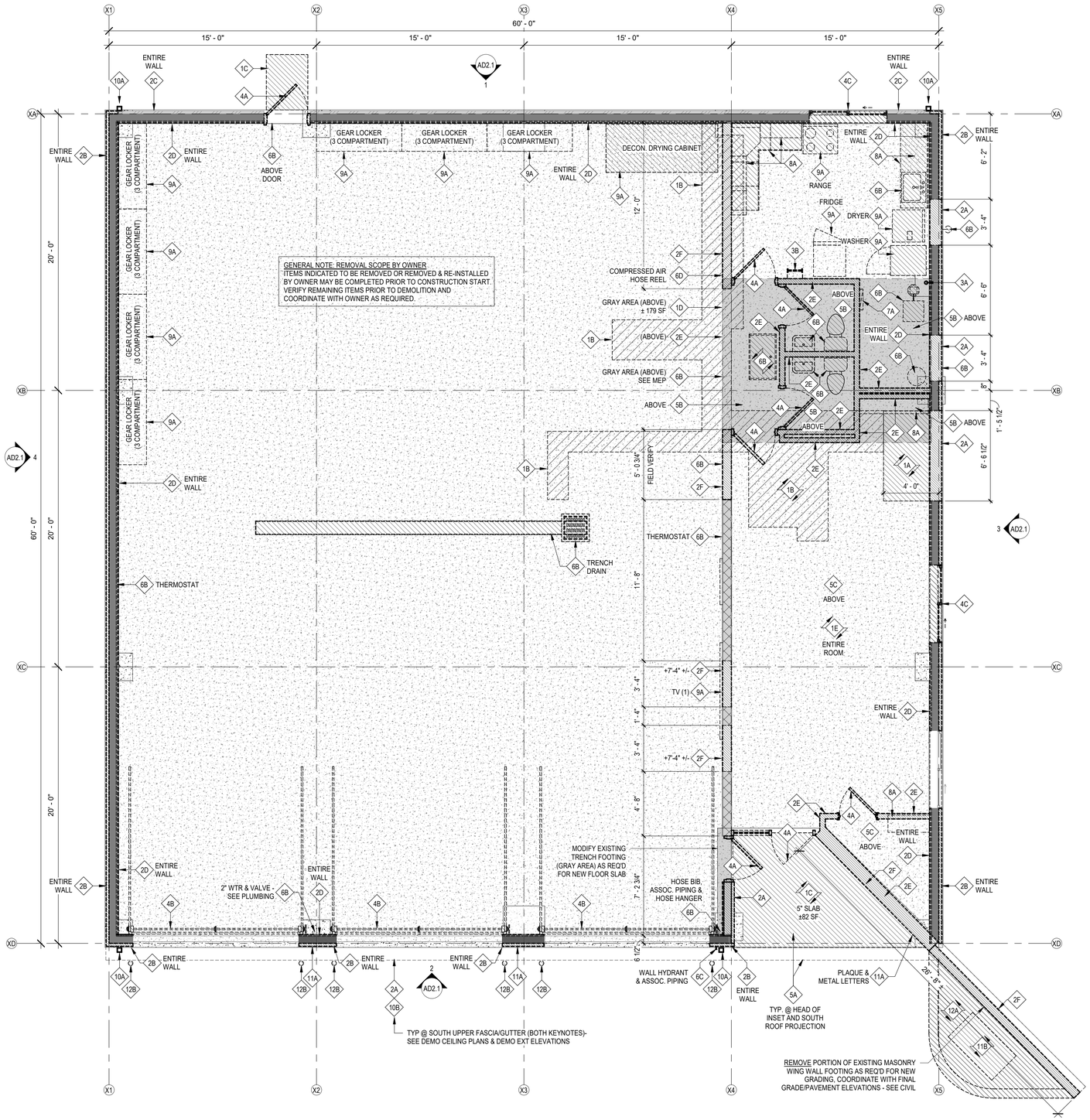
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S502



1 **DEMO PLAN**
1/4" = 1'-0"

KEYED NOTE LEGEND - DEMOLITION #X

1A REMOVE CONCRETE FLOOR SLAB AND FOUNDATION WALL
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, & OTHER ACCESSORIES FOR INSTALLATION OF NEW RAMP. SEE STRUCTURAL.

1B REMOVE & RE-INSTALL CONCRETE FLOOR SLAB
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, & OTHER ACCESSORIES AS REQUIRED FOR INSTALLATION OF NEW UNDERGROUND PLUMBING CONNECTIONS. EXTENTS OF REMOVAL ARE SHOWN ON PLANS FOR GENERAL REFERENCE (~175 SF); CONTRACTOR TO FIELD VERIFY ACTUAL EXTENTS OF REMOVAL. SEE PLUMBING.

1C REMOVE CONCRETE STOOP SLAB COMPLETE
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, & OTHER ACCESSORIES. REMOVE PORTION OF ASSOCIATED FOOTINGS AS REQUIRED FOR NEW PAVING/GRADING. SEE CIVIL & STRUCTURAL.

1D REMOVE MEZZANINE COMPLETE
INCLUDING ALL ASSOCIATED STRUCTURAL FRAMING, COLUMNS, BASE PLATES, SHEATHING, CLIPS, FASTENERS, & OTHER ACCESSORIES. EXISTING STRUCTURE INTEGRAL TO PRIMARY PEMB DIAPHRAGM TO REMAIN. SEE MEP DRAWINGS FOR EXTENT OF UTILITY DEMOLITION.

1E REMOVE CARPET COMPLETE
INCLUDING ALL ASSOCIATED FASTENERS, ADHESIVES, THRESHOLDS, TRANSTIONS, & OTHER ACCESSORIES.

2A REMOVE PORTION OF PEMB WALL ASSEMBLY
INCLUDING ALL ASSOCIATED GIRTS/SUBSTRUCTURE, METAL WALL PANELS, INSULATION, TRIMS, FASTENERS, & OTHER ACCESSORIES. MODIFY EXISTING PEMB SYSTEM TO PROVIDE & INSTALL NEW PEMB JAMBS FOR NEW WORK ROUGH OPENINGS.

2B REMOVE EXTERIOR WALL PANELS COMPLETE
INCLUDING ALL ASSOCIATED TRIMS, FASCIAS, FLASHINGS, FASTENERS, CLOSURE STRIPS, MASTIC, & OTHER ACCESSORIES. EXISTING PEMB GIRTS/SUBSTRUCTURE & BAGGED INSULATION TO REMAIN. PREPARE SUBSTRUCTURE FOR NEW EXTERIOR FINISHES.

2C EXTERIOR WALL PANELS TO REMAIN
PATCH & REPAIR WALL PANELS WITH SALVAGED MATERIALS. PREPARE EXISTING WALL PANELS FOR INSTALLATION OF NEW PAINT FINISH. SEE ELEVATIONS. SEE SPEC.

2D REMOVE INTERIOR METAL LINER PANELS
INCLUDING ALL ASSOCIATED FASTENERS, TRIMS, & OTHER ACCESSORIES COMPLETE. PREPARE EXISTING PEMB SUBSTRUCTURE FOR INSTALLATION OF NEW METAL LINER PANEL OR FUR WALL FRAMING. REF: NEW WORK PLANS.

2E REMOVE METAL FRAMED GWB WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED FASTENERS, CONCEALED UTILITIES, SUPPORTS, & OTHER ACCESSORIES.

2F REMOVE MASONRY WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, SUPPORT/CLOSURE ANGLES, & OTHER ACCESSORIES. PROVIDE TEMPORARY SHORING AT NEW OPENINGS IN EXISTING MASONRY WALLS. SEE STRUCTURAL.

NOTE: ELEVATION ADJACENT TO KEYNOTE IDENTIFIES LOCATIONS WHERE PARTIAL HEIGHT REMOVAL IS INTENDED. ELEVATION IS BASED ON EXISTING FLOOR LEVEL (L1 = 0'-0"). AT PARTIAL HEIGHT REMOVAL, TOOTH IN MASONRY.

3A REMOVE STEEL COLUMN COMPLETE
INCLUDING ALL ASSOCIATED BASE PLATES, ANCHORS, GROUT, & OTHER ACCESSORIES.

3B REMOVE STEEL ACCESS LADDER COMPLETE
INCLUDING ALL ASSOCIATED HARDWARE & MOUNTING ACCESSORIES.

4A REMOVE DOOR & FRAME COMPLETE
INCLUDING ALL ASSOCIATED SIDE LITES, TRANSOMS, MOUNTING HARDWARE, SHIMS, SEALANT, & ACCESSORIES. SEE NEW WORK PLANS FOR LOCATIONS TO RECEIVE PEMB INFILL OR MODIFICATIONS FOR NEW OPENINGS.

4B REMOVE OVERHEAD DOOR COMPLETE
INCLUDING ALL ASSOCIATED POWERED DOOR OPERATORS, MOUNTING HARDWARE, TRACKS, TRACK SUPPORTS, TRIMS, CLIPS, SEALANT, & OTHER ACCESSORIES. PREPARE EXISTING ROUGH OPENING FOR INSTALLATION OF NEW WALL INFILL AND GLAZING SYSTEM.

4C REMOVE WINDOW COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, TRIMS, FLASHINGS, SUPPORT ANGLES, & OTHER ACCESSORIES. PREPARE ROUGH OPENING FOR INSTALLATION OF NEW WALL INFILL.

5A REMOVE METAL SOFFIT COMPLETE
INCLUDING ALL ASSOCIATED TRIMS, SEALANT, BACKUP FRAMING, ANGLES, & OTHER ACCESSORIES.

5B REMOVE GWB CEILING/BULKHEAD COMPLETE
INCLUDING ALL ASSOCIATED METAL FRAMING, HEADERS, TRIMS, & OTHER ACCESSORIES.

5C REMOVE ACT CEILING COMPLETE
INCLUDING ALL ASSOCIATED SUSPENSION SYSTEMS, CEILING GRID, TRIMS, & OTHER ACCESSORIES.

6A NOT USED.

6B REMOVE MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS.

6C REMOVE & RE-INSTALL MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. PREPARE EQUIP/FIXTURE FOR RE-INSTALLATION IN NEW LOCATION.SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS.

6D REMOVE & SALVAGE MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS. SAFELY STORE & RETURN EQUIPMENT/FIXTURE TO OWNER AT END OF PROJECT.

7A REMOVE ELECTRICAL EQUIPMENT/FIXTURE COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CONDUIT, & OTHER ACCESSORIES. SEE ELECTRICAL.

7B REMOVE & RE-INSTALL ELEC EQUIP/FIXTURE COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CONDUIT, & OTHER ACCESSORIES. SEE ELECTRICAL.

8A REMOVE CASEWORK COMPLETE
INCLUDING EXISTING BUILT-IN CABINETS, COUNTERTOPS, SHELVES, BOARDS AND ASSOCIATED HARDWARE, FRAMING, & OTHER ACCESSORIES.

9A REMOVE & SALVAGE EQUIPMENT (BY OWNER)
ITEMS TO BE REMOVED & SALVAGED PRIOR TO COMMENCEMENT OF WORK. OWNER TO REINSTALL SELET ITEMS UNDER NEW WORK SCOPE. SEE PLANS. SEE SPEC.

10A REMOVE METAL GUTTER/DOWNSPOUTS COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE & OTHER ACCESSORIES. SEE DEMOLITION ELEVATONS.

10B REMOVE CONCEALED GUTTER WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED METAL WALL PANELS, EAVE STRUTS, CONCEALED GUTTERS, SOFFIT, FASCIA, TRIMS, & OTHER ACCESSORIES. PEMB GIRTS/SUBSTRUCTURE TO REMAIN. PREPARE SUBSTRUCTURE FOR NEW EXTERIOR FINISHES.

11A REMOVE & SALVAGE EXTERIOR SIGNAGE COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE & OTHER ACCESSORIES. SAFELY STORE & RETURN TO OWNER AT END OF PROJECT.

11B REMOVE & SALVAGE HISTORIC BELL & STRUCTURE
INCLUDING ALL ASSOCIATED SUPPORT STRUCTURE & OTHER ACCESSORIES. SAFELY STORE & RETURN TO OWNER AT END OF PROJECT.

12A REMOVE MASONRY LANDSCAPE WALL & BED COMPLETE
INCLUDING ALL ASSOCIATED LANDSCAPING MATERIAL, REINFORMCEMENT, & OTHER ACCESSORIES. SEE CIVIL.

12B REMOVE PIPE BOLLARDS COMPLETE
SEE CIVIL

EXISTING CONCRETE SLAB/SUBSTRATE REPAIR

1. PROVIDE REPAIR OF EXISTING JOINTS PRIOR TO PLACEMENT OF NEW TOPPING SLAB. REPAIR METHODS SHALL RESTORE JOINT FUNCTIONALITY, REMOVE LOOSE OR DETERIORATED MATERIAL, AND ENSURE PROPER MOVEMENT CAPABILITY.
2. JOINT REPAIR BY TYPE & SIZE:
   - A. HAIRLINE TO ≤1/8" WIDE JOINTS (NON-MOVEMENT)
     - a. CLEAN JOINT FULL DEPTH OF CONTAMINATION AND LAITANCE USING SAWCUT, WIRE BRUSHING, OR COMPRESSED AIR. FILL WITH SEMI-RIGID EPOXY JOINT FILLER OR POLYUREA COMPATIBLE WITH TOPPING INSTALLATION.
   - B. 1/8" - 1/2" WORKING OR CONTROL JOINTS
     - a. GRIND JOINT TO UNIFORM WIDTH (TYPICALLY 1/4" - 1/2") AND CLEAN TO SOUND CONCRETE. INSTALL CLOSED-CELL BACKER ROD WHERE DEPTH EXCEEDS 1/2". SEAL WITH ELASTOMERIC JOINT SEALANT.
   - C. 1/2" - 1" WIDE JOINTS OR DETERIORIATED JOINTS
     - a. SQUARE-CUT JOINT EDGES TO REMOVE LOOSE CONCRETE (MIN. 1" DEPTH). REBUILD EDGES WITH POLYMER-MODIFIED CEMENTITIOUS REPAIR MORTAR OR RAPID-SET REPAIR MORTAR. RE-ESTABLISH THE JOINT BY INSTALLING A BOND BREAKER/BACKER ROD AND APPLYING ELASTOMERIC JOINT SEALANT.
   - D. JOINTS >1" OR STRUCTURAL SEPARATION JOINTS
     - a. REMOVE ALL DETERIORATED MATERIAL TO SOUND SUBSTRATE. INSTALL COMPRESSIBLE JOINT FILLER FULL JOINT DEPTH. APPLY ELASTOMERIC SEALANT AT SURFACE. FOR TRENCH DRAIN, PROVIDE ISOLATION JOINT ALONG DRAIN FRAME TO AVOID RESTRAINT. TRENCH DRAIN IS INTENDED TO BE CAPPED, FILLED SOLID, AND ABANDONED IN PLACE. SEE MECHANICAL.
   - E. SPALLED JOINT SHOULDERS (ANY SIZE)
     - a. SAWCUT PERIMETER TO CREATE SQUARE REPAIR BOUNDARY (MIN. 1/2" DEPTH). REMOVE UNSOUND CONCRETE. USE POLYMER-MODIFIED STRUCTURAL REPAIR MORTAR OR RAPID-SETTING PATCH MORTAR. RECREATE ORIGINAL JOINT WIDTH WITH BOND BREAKER/BACKER ROD & SEALANT UPON COMPLETION.
3. COORDINATE WITH TOPPING SLAB (SEE NEW WORK PLANS)
   - A. IDENTIFY EXISTING MOVEMENT JOINTS AND ENSURE THEY ARE REFLECTED THROUGH OR HONORED IN THE TOPPING.
   - B. NON-WORKING JOINTS REPAIRED AS SEMI-RIGID MAY BE ALLOWED TO DISAPPEAR BENEATH AN UNBONDED TOPPING, SUBJECT TO ENGINEER REVIEW.

GENERAL NOTES - DEMOLITION:

- BOLD & DASHED LINES INDICATE ITEMS TO BE REMOVED UNLESS NOTED OTHERWISE. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING SURFACES AT REMOVED ITEMS. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- WHERE PATCHING IS REQUIRED, WALL, FLOOR, CEILING OR OTHER SURFACE INFILL SHALL BE FINISHED TO MATCH ADJACENT EXISTING SURFACES. CONTRACTOR SHALL BLEND NEW WALL TEXTURES INTO EXISTING WALL TEXTURES TO RESULT IN A UNIFORM FINISH/APPEARANCE AND, AS REQUIRED, REPAINT THE ENTIRE WALL FIELD TO RESULT IN A CONSISTENT FINISH. SEE ROOM FINISH SCHEDULE.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH NEW WORK, INCLUDING COORDINATION WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES. CONTRACTOR SHALL COORDINATE WITH THE SHEETS OF ALL OTHER DISCIPLINES INCLUDING DESIGN/BUILD DOCUMENTS. ADDITIONAL DEMOLITION SCOPE MAY BE SHOWN ON OTHER DRAWINGS WITHIN THESE CONSTRUCTION DOCUMENTS.
- ALL WALLS, DOORS, FRAMES, FLOOR COVERINGS, AND OTHER ITEMS OR SURFACES NOT SHOWN TO BE "REMOVED," "REMOVED AND SALVAGED," OR "REMOVED AND RE-INSTALLED," SHALL BE CONSIDERED "TO REMAIN." CONTRACTOR SHALL PROTECT ALL SURFACES SHOWN "TO REMAIN" THROUGHOUT DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL REPAIR AND REPLACE ALL DAMAGED MATERIALS, ITEMS, SURFACES & COMPONENTS NOT SHOWN TO BE REMOVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING ANY AND ALL NECESSARY OPENINGS TO THE BUILDING, REQUIRED TO REMOVE EXISTING AND/OR BRING IN NEW STRUCTURING, EQUIPMENT, FINISHES, AND THE LIKE. ALL OPENINGS SHALL BE PATCHED AND FINISHED WITH MATERIALS TO MATCH THE PRE-EXISTING CONDITIONS.
- ALL ABANDONED WALL BOXES/CAVITIES FROM DEMOLISHED FIXTURES & DEVICES SHALL BE PATCHED AS NOTED ON THE NEW FLOOR PLANS. WHERE NO PATCH WORK IS INDICATED, THE REMAINING OPENINGS SHALL RECEIVE STAINLESS STEEL METAL "BLANK" PLATES OR COVERS. WHERE CUSTOM SIZED METAL FABRICATIONS ARE REQUIRED TO COVER CAVITIES, PROVIDE A MINIMUM 16 GAUGE MATERIAL WITH HEMMED EDGES. WHERE OPENINGS LARGER THAN 16", PROVIDE ADDITIONAL METAL STUD FRAMING SUPPORTS @ 12" O.C. AS REQUIRED.
- AT NEW OPENINGS IN MASONRY WALLS, PROVIDE STEEL LINTELS AS SHOWN IN THE LINTEL SCHEDULE. CONTRACTOR SHALL PROVIDE ENGINEERED TEMPORARY SHORING FOR ALL LOAD BEARING WALL ASSEMBLIES, FLOOR-CEILING ASSEMBLIES, ROOF ASSEMBLIES, AND THE LIKE AS REQUIRED.
- AT NEW OR MODIFIED OPENINGS IN EXISTING PEMB STRUCTURE, REFER TO STRUCTURAL FOR MODIFICATIONS TO EXISTING OR NEW STRUCTURAL MEMBERS.
- DUST AND FUME CONTROL/CONTAINMENT MEASURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DUST AND FUMES SHALL NOT BE ALLOWED TO FILTER INTO ADJACENT OCCUPIED SPACES OR EXISTING MECHANICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE DOUBLE FILTERS AT ALL RETURN GRILLES WITHIN EACH AREA UNDER DEMOLITION OR CONSTRUCTION, TYPICAL. TEMPORARY DUST PARTITIONS WILL NEED TO BE REMOVED AND RELOCATED TO ACCOMMODATE THE WORK FOR EACH PHASE OF THE PROJECT. IF CONSTRUCTION DUST IS FOUND WITHIN AN OCCUPIED AREA, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ALL EFFECTED AREAS AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATION. CONTRACTOR SHALL PROVIDE AND INSTALL DUST-CONTROL ADHESIVE-SURFACE WALK-OFF MATS, AS REQUIRED, TO PROTECT EXISTING FLOOR FINISHES THAT ARE SHOWN TO REMAIN.
- IF UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT PROCEED WITH DEMOLITION. IMMEDIATELY CONTACT THE OWNER. ARCHITECT HAS NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, DISPOSAL OF, OR EXPOSURE TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES, IN ANY FORM, ON THE PROJECT SITE. CONTACT OWNER FOR INFORMATION REGARDING TESTING & ABATEMENT.
- CONTRACTOR SHALL PROVIDE DUST-CONTROL ADHESIVE-SURFACE WALK-OFF MATS, AS REQUIRED, TO PROTECT EXISTING FLOOR FINISHES THAT ARE SHOWN TO REMAIN. ADHESIVE-SURFACE LAYERS TO BE CHANGED OUT REGULARLY SO TO MAINTAIN A STICKY SURFACE.
- THE PROJECT SHALL MEET ALL RELEVANT FEDERAL AND STATE REGULATIONS REGARDING REGULATED ASBESTOS-CONTAINING BUILDING MATERIALS (ACMs), INCLUDING BUT NOT LIMITED TO THE FOLLOWING: NOTIFYING THE EPA, DNR AND NESHAP; COMPLETING AN ASBESTOS SURVEY BY A LICENSED ASBESTOS BUILDING INSPECTOR IN ORDER TO IDENTIFY, CLASSIFY AND QUANTIFY ALL ACMs; SUBMISSION OF A DEMOLITION NOTIFICATION FORM TO THE DNR AT LEAST (10) WORKING DAYS PRIOR TO THE START OF DEMOLITION (REGARDLESS OF WHETHER ACMs WERE DISCOVERED); AND REMOVAL OF ACMs BY A PERMITTED ASBESTOS ABATEMENT CONTRACTOR.
- EXISTING EPOXY FLOOR COVERING IS INTENDED TO REMAIN IN RESTROOMS, STORAGE & MECHANICAL SPACES SINCE TOPPING SLAB (NEW WORK) WILL COVER THIS FINISH. NO EPOXY FLOOR COVERING PATCH IS REQUIRED WHERE FLOOR ARE CHANNEL & PATCHED FOR NEW UNDERSLAB WORK.
- SALVAGE REMOVED EXTERIOR METAL PANELS FOR PATCH & REPAIR WORK SPECIFIED AT NORTH ELEVATION. PREPARE SALVAGED METAL PANELS FOR NEW PAINT FINISH FOLLOWING REINSTALLATION.
- NOT ALL MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION IS SHOWN ON ARCHITECTURAL PLANS. REFERENCE OTHER TRADE DRAWINGS FOR FULL EXTENTS OF REMOVAL.

DEMOLITION DEFINITIONS:

- "REMOVE": DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED. PATCH & REPAIR ADJACENT SURFACES SHOWN TO REMAIN WITH LIKE MATERIALS.
- "REMOVE AND SALVAGE": CAREFULLY DETACH FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE AND RE-INSTALL WHERE INDICATED. PATCH & REPAIR ADJACENT SURFACES SHOWN TO REMAIN WITH LIKE MATERIALS.
- "REMOVE AND RE-INSTALL": DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE AND RE-INSTALL WHERE INDICATED. PATCH & REPAIR ADJACENT SURFACES SHOWN TO REMAIN WITH LIKE MATERIALS.
- "TO REMAIN": EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND RE-INSTALLED.

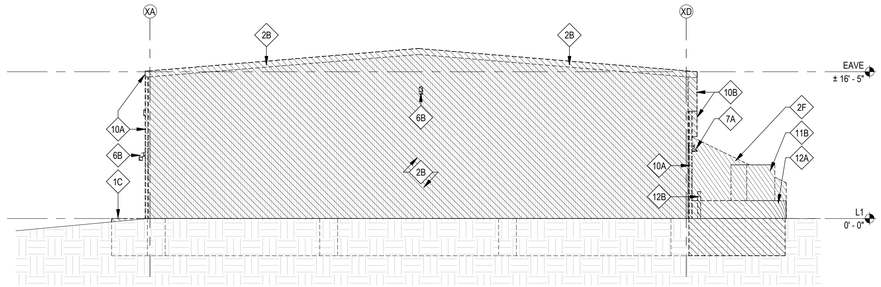
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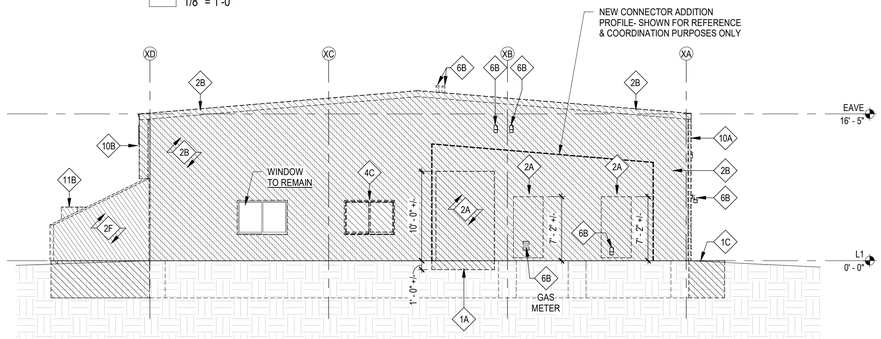
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SHEET NAME: DEMO PLAN

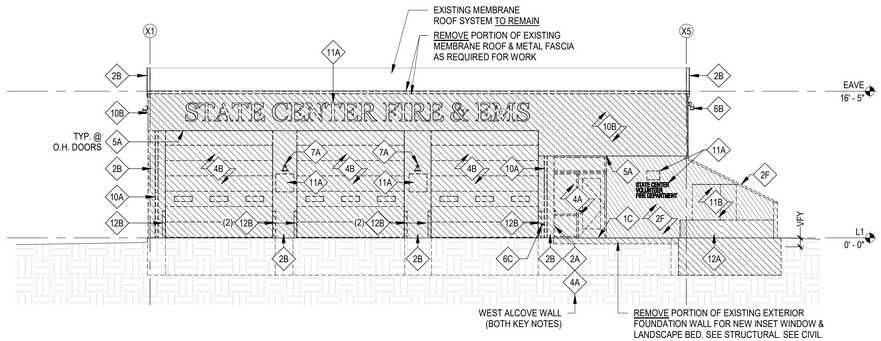
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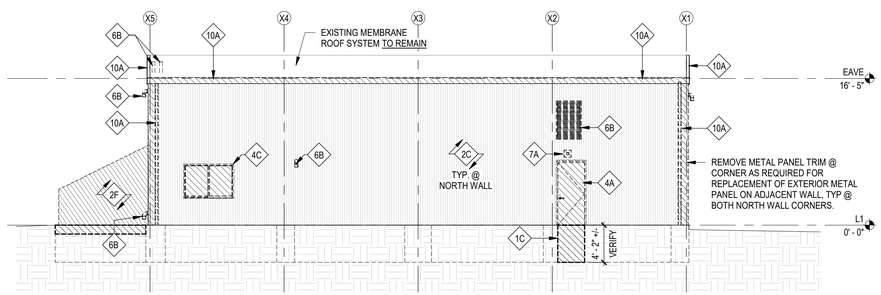
4 DEMO EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



3 DEMO EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



2 DEMO EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



1 DEMO EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

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PATCH & REPAIR WALL PANELS WITH SALVAGED MATERIALS. PREPARE EXISTING WALL PANELS FOR INSTALLATION OF NEW PAINT FINISH. SEE ELEVATIONS. SEE SPEC.

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2E REMOVE METAL FRAMED GWB WALL ASSEMBLY COMPLETE
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2F REMOVE MASONRY WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, SUPPORT/CLOSURE ANGLES, & OTHER ACCESSORIES. PROVIDE TEMPORARY SHORING AT NEW OPENINGS IN EXISTING MASONRY WALLS. SEE STRUCTURAL.

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3B REMOVE STEEL ACCESS LADDER COMPLETE
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4A REMOVE DOOR & FRAME COMPLETE
INCLUDING ALL ASSOCIATED SIDE LITES, TRANSOMS, MOUNTING HARDWARE, SHIMS, SEALANT, & ACCESSORIES. SEE NEW WORK PLANS FOR LOCATIONS TO RECEIVE PEMB INFILL OR MODIFICATIONS FOR NEW OPENINGS.

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5C REMOVE ACT CEILING COMPLETE
INCLUDING ALL ASSOCIATED SUSPENSION SYSTEMS, CEILING GRID, TRIMS, & OTHER ACCESSORIES.

6A NOT USED.

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6C REMOVE & RE-INSTALL MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. PREPARE EQUIP/FIXTURE FOR RE-INSTALLATION IN NEW LOCATION.SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS.

6D REMOVE & SALVAGE MECH/PLUMBING EQUIP/FIXTURE
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INCLUDING ALL ASSOCIATED MOUNTING HARDWARE & OTHER ACCESSORIES. SEE DEMOLITION ELEVATONS.

10B REMOVE CONCEALED GUTTER WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED METAL WALL PANELS, EAVE STRUTS, CONCEALED GUTTERS, SOFFIT, FASCIA, TRIMS, & OTHER ACCESSORIES. PEMB GIRTS/SUBSTRUCTURE TO REMAIN. PREPARE SUBSTRUCTURE FOR NEW EXTERIOR FINISHES.

11A REMOVE & SALVAGE EXTERIOR SIGNAGE COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE & OTHER ACCESSORIES. SAFELY STORE & RETURN TO OWNER AT END OF PROJECT.

11B REMOVE & SALVAGE HISTORIC BELL & STRUCTURE
INCLUDING ALL ASSOCIATED SUPPORT STRUCTURE & OTHER ACCESSORIES. SAFELY STORE & RETURN TO OWNER AT END OF PROJECT.

12A REMOVE MASONRY LANDSCAPE WALL & BED COMPLETE
INCLUDING ALL ASSOCIATED LANDSCAPING MATERIAL, REINFORMCEMENT, & OTHER ACCESSORIES. SEE CIVIL.

12B REMOVE PIPE BOLLARDS COMPLETE
SEE CIVIL

GENERAL NOTES - DEMOLITION:

- BOLD & DASHED LINES INDICATE ITEMS TO BE REMOVED UNLESS NOTED OTHERWISE. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING SURFACES AT REMOVED ITEMS. SEE NEW PLANS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- WHERE PATCHING IS REQUIRED, WALL, FLOOR, CEILING OR OTHER SURFACE INFILL SHALL BE FINISHED TO MATCH ADJACENT EXISTING SURFACES. CONTRACTOR SHALL BLEND NEW WALL TEXTURES INTO EXISTING WALL TEXTURES TO RESULT IN A UNIFORM FINISH/APPEARANCE AND, AS REQUIRED, REPAINT THE ENTIRE WALL FIELD TO RESULT IN A CONSISTENT FINISH. SEE ROOM FINISH SCHEDULE.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH NEW WORK, INCLUDING COORDINATION WITH ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES. CONTRACTOR SHALL COORDINATE WITH THE SHEETS OF ALL OTHER DISCIPLINES INCLUDING DESIGN/BUILD DOCUMENTS. ADDITIONAL DEMOLITION SCOPE MAY BE SHOWN ON OTHER DRAWINGS WITHIN THESE CONSTRUCTION DOCUMENTS.
- ALL WALLS, DOORS, FRAMES, FLOOR COVERINGS, AND OTHER ITEMS OR SURFACES NOT SHOWN TO BE "REMOVED," "REMOVED AND SALVAGED," OR "REMOVED AND RE-INSTALLED," SHALL BE CONSIDERED "TO REMAIN." CONTRACTOR SHALL PROTECT ALL SURFACES SHOWN "TO REMAIN" THROUGHOUT DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL REPAIR AND REPLACE ALL DAMAGED MATERIALS, ITEMS, SURFACES & COMPONENTS NOT SHOWN TO BE REMOVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING ANY AND ALL NECESSARY OPENINGS TO THE BUILDING, REQUIRED TO REMOVE EXISTING AND/OR BRING IN NEW STRUCTURING, EQUIPMENT, FINISHES, AND THE LIKE. ALL OPENINGS SHALL BE PATCHED AND FINISHED WITH MATERIALS TO MATCH THE PRE-EXISTING CONDITIONS.
- ALL ABANDONED WALL BOXES/CAVITIES FROM DEMOLISHED FIXTURES & DEVICES SHALL BE PATCHED AS NOTED ON THE NEW FLOOR PLANS. WHERE NO PATCH WORK IS INDICATED, THE REMAINING OPENINGS SHALL RECEIVE STAINLESS STEEL METAL "BLANK" PLATES OR COVERS. WHERE CUSTOM SIZED METAL FABRICATIONS ARE REQUIRED TO COVER CAVITIES, PROVIDE A MINIMUM 16 GAUGE MATERIAL WITH HEMMED EDGES. WHERE OPENINGS LARGER THAN 16", PROVIDE ADDITIONAL METAL STUD FRAMING SUPPORTS @ 12" O.C. AS REQUIRED.
- AT NEW OPENINGS IN MASONRY WALLS, PROVIDE STEEL LINTELS AS SHOWN IN THE LINTEL SCHEDULE. CONTRACTOR SHALL PROVIDE ENGINEERED TEMPORARY SHORING FOR ALL LOAD BEARING WALL ASSEMBLIES, FLOOR-CEILING ASSEMBLIES, ROOF ASSEMBLIES, AND THE LIKE AS REQUIRED.
- AT NEW OR MODIFIED OPENINGS IN EXISTING PEMB STRUCTURE, REFER TO STRUCTURAL FOR MODIFICATIONS TO EXISTING OR NEW STRUCTURAL MEMBERS.
- DUST AND FUME CONTROL/CONTAINMENT MEASURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DUST AND FUMES SHALL NOT BE ALLOWED TO FILTER INTO ADJACENT OCCUPIED SPACES OR EXISTING MECHANICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE DOUBLE FILTERS AT ALL RETURN GRILLES WITHIN EACH AREA UNDER DEMOLITION OR CONSTRUCTION, TYPICAL. TEMPORARY DUST PARTITIONS WILL NEED TO BE REMOVED AND RELOCATED TO ACCOMMODATE THE WORK FOR EACH PHASE OF THE PROJECT. IF CONSTRUCTION DUST IS FOUND WITHIN AN OCCUPIED AREA, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ALL EFFECTED AREAS AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATION. CONTRACTOR SHALL PROVIDE AND INSTALL DUST-CONTROL ADHESIVE-SURFACE WALK-OFF MATS, AS REQUIRED, TO PROTECT EXISTING FLOOR FINISHES THAT ARE SHOWN TO REMAIN.
- IF UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT PROCEED WITH DEMOLITION. IMMEDIATELY CONTACT THE OWNER. ARCHITECT HAS NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, DISPOSAL OF, OR EXPOSURE TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES, IN ANY FORM, ON THE PROJECT SITE. CONTACT OWNER FOR INFORMATION REGARDING TESTING & ABATEMENT.
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- THE PROJECT SHALL MEET ALL RELEVANT FEDERAL AND STATE REGULATIONS REGARDING REGULATED ASBESTOS-CONTAINING BUILDING MATERIALS (ACMs), INCLUDING BUT NOT LIMITED TO THE FOLLOWING: NOTIFYING THE EPA, DNR AND NESHAP; COMPLETING AN ASBESTOS SURVEY BY A LICENSED ASBESTOS BUILDING INSPECTOR IN ORDER TO IDENTIFY, CLASSIFY AND QUANTIFY ALL ACMs; SUBMISSION OF A DEMOLITION NOTIFICATION FORM TO THE DNR AT LEAST (10) WORKING DAYS PRIOR TO THE START OF DEMOLITION (REGARDLESS OF WHETHER ACMs WERE DISCOVERED); AND REMOVAL OF ACMs BY A PERMITTED ASBESTOS ABATEMENT CONTRACTOR.
- EXISTING EPOXY FLOOR COVERING IS INTENDED TO REMAIN IN RESTROOMS, STORAGE & MECHANICAL SPACES SINCE TOPPING SLAB (NEW WORK) WILL COVER THIS FINISH. NO EPOXY FLOOR COVERING PATCH IS REQUIRED WHERE FLOOR ARE CHANNEL & PATCHED FOR NEW UNDERSLAB WORK.
- SALVAGE REMOVED EXTERIOR METAL PANELS FOR PATCH & REPAIR WORK SPECIFIED AT NORTH ELEVATION. PREPARE SALVAGED METAL PANELS FOR NEW PAINT FINISH FOLLOWING REINSTALLATION.
- NOT ALL MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION IS SHOWN ON ARCHITECTURAL PLANS. REFERENCE OTHER TRADE DRAWINGS FOR FULL EXTENTS OF REMOVAL.

DEMOLITION DEFINITIONS:

- "REMOVE": DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED, OR REMOVED AND RE-INSTALLED. PATCH & REPAIR ADJACENT SURFACES SHOWN TO REMAIN WITH LIKE MATERIALS.
- "REMOVE AND SALVAGE": CAREFULLY DETACH FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE AND RE-INSTALL WHERE INDICATED. PATCH & REPAIR ADJACENT SURFACES SHOWN TO REMAIN WITH LIKE MATERIALS.
- "REMOVE AND RE-INSTALL": DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE AND RE-INSTALL WHERE INDICATED. PATCH & REPAIR ADJACENT SURFACES SHOWN TO REMAIN WITH LIKE MATERIALS.
- "TO REMAIN": EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND RE-INSTALLED.

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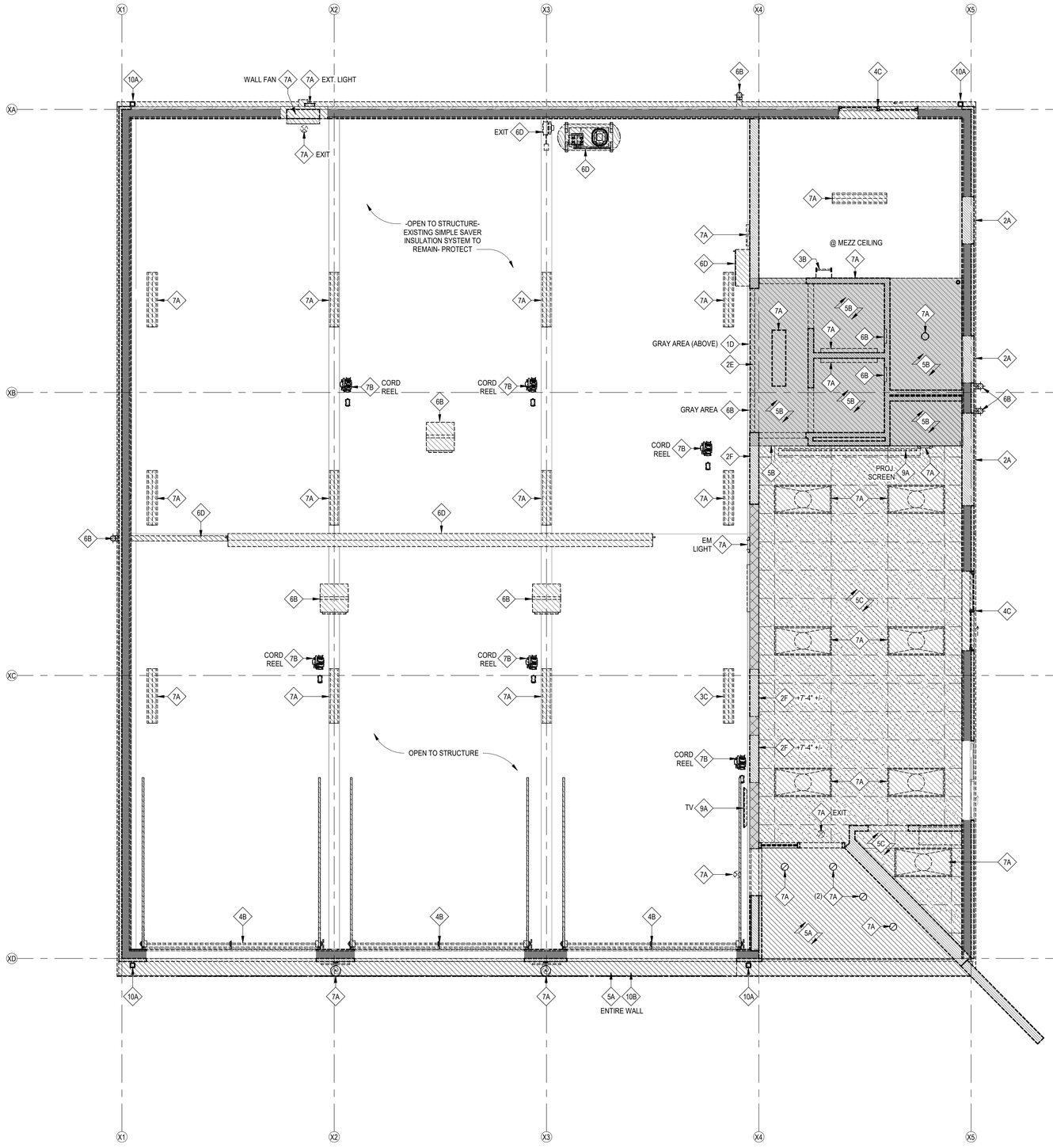
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PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18

PHASE: CD
SHEET NAME: DEMO EXTERIOR ELEVATIONS

AD2.1



1 **DEMOLITION CEILING PLAN**
1/4" = 1'-0"

KEYED NOTE LEGEND - DEMOLITION #X

1A REMOVE CONCRETE FLOOR SLAB AND FOUNDATION WALL
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, & OTHER ACCESSORIES FOR INSTALLATION OF NEW RAMP. SEE STRUCTURAL.

1B REMOVE & RE-INSTALL CONCRETE FLOOR SLAB
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, & OTHER ACCESSORIES AS REQUIRED FOR INSTALLATION OF NEW UNDERGROUND PLUMBING CONNECTIONS. EXTENTS OF REMOVAL ARE SHOWN ON PLANS FOR GENERAL REFERENCE (~175 SF); CONTRACTOR TO FIELD VERIFY ACTUAL EXTENTS OF REMOVAL. SEE PLUMBING.

1C REMOVE CONCRETE STOOP SLAB COMPLETE
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, & OTHER ACCESSORIES. REMOVE PORTION OF ASSOCIATED FOOTINGS AS REQUIRED FOR NEW PAVING/GRADING. SEE CIVIL & STRUCTURAL.

1D REMOVE MEZZANINE COMPLETE
INCLUDING ALL ASSOCIATED STRUCTURAL FRAMING, COLUMNS, BASE PLATES, SHEATHING, CLIPS, FASTENERS, & OTHER ACCESSORIES. EXISTING STRUCTURE INTEGRAL TO PRIMARY PEMB DIAPHRAGM TO REMAIN. SEE MEP DRAWINGS FOR EXTENT OF UTILITY DEMOLITION.

1E REMOVE CARPET COMPLETE
INCLUDING ALL ASSOCIATED FASTENERS, ADHESIVES, THRESHOLDS, TRANSTIONS, & OTHER ACCESSORIES.

2A REMOVE PORTION OF PEMB WALL ASSEMBLY
INCLUDING ALL ASSOCIATED GIRTS/SUBSTRUCTURE, METAL WALL PANELS, INSULATION, TRIMS, FASTENERS, & OTHER ACCESSORIES. MODIFY EXISTING PEMB SYSTEM TO PROVIDE & INSTALL NEW PEMB JAMBS FOR NEW WORK ROUGH OPENINGS.

2B REMOVE EXTERIOR WALL PANELS COMPLETE
INCLUDING ALL ASSOCIATED TRIMS, FASCIAS, FLASHINGS, FASTENERS, CLOSURE STRIPS, MASTIC, & OTHER ACCESSORIES. EXISTING PEMB GIRTS/SUBSTRUCTURE & BAGGED INSULATION TO REMAIN. PREPARE SUBSTRUCTURE FOR NEW EXTERIOR FINISHES.

2C EXTERIOR WALL PANELS TO REMAIN
PATCH & REPAIR WALL PANELS WITH SALVAGED MATERIALS. PREPARE EXISTING WALL PANELS FOR INSTALLATION OF NEW PAINT FINISH. SEE ELEVATIONS. SEE SPEC.

2D REMOVE INTERIOR METAL LINER PANELS
INCLUDING ALL ASSOCIATED FASTENERS, TRIMS, & OTHER ACCESSORIES COMPLETE. PREPARE EXISTING PEMB SUBSTRUCTURE FOR INSTALLATION OF NEW METAL LINER PANEL OR FUR WALL FRAMING. REF: NEW WORK PLANS.

2E REMOVE METAL FRAMED GWB WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED FASTENERS, CONCEALED UTILITIES, SUPPORTS, & OTHER ACCESSORIES.

2F REMOVE MASONRY WALL ASSEMBLY COMPLETE
INCLUDING ALL ASSOCIATED REINFORCEMENT, FIBER EXPANSION JOINTS, SUPPORT/CLOSURE ANGLES, & OTHER ACCESSORIES. PROVIDE TEMPORARY SHORING AT NEW OPENINGS IN EXISTING MASONRY WALLS. SEE STRUCTURAL.

NOTE: ELEVATION ADJACENT TO KEYNOTE IDENTIFIES LOCATIONS WHERE PARTIAL HEIGHT REMOVAL IS INTENDED. ELEVATION IS BASED ON EXISTING FLOOR LEVEL (L1 = 0'-0"). AT PARTIAL HEIGHT REMOVAL, TOOTH IN MASONRY.

3A REMOVE STEEL COLUMN COMPLETE
INCLUDING ALL ASSOCIATED BASE PLATES, ANCHORS, GROUT, & OTHER ACCESSORIES.

3B REMOVE STEEL ACCESS LADDER COMPLETE
INCLUDING ALL ASSOCIATED HARDWARE & MOUNTING ACCESSORIES.

4A REMOVE DOOR & FRAME COMPLETE
INCLUDING ALL ASSOCIATED SIDE LITES, TRANSOMS, MOUNTING HARDWARE, SHIMS, SEALANT, & ACCESSORIES. SEE NEW WORK PLANS FOR LOCATIONS TO RECEIVE PEMB INFILL OR MODIFICATIONS FOR NEW OPENINGS.

4B REMOVE OVERHEAD DOOR COMPLETE
INCLUDING ALL ASSOCIATED POWERED DOOR OPERATORS, MOUNTING HARDWARE, TRACKS, TRACK SUPPORTS, TRIMS, CLIPS, SEALANT, & OTHER ACCESSORIES. PREPARE EXISTING ROUGH OPENING FOR INSTALLATION OF NEW WALL INFILL AND GLAZING SYSTEM.

4C REMOVE WINDOW COMPLETE.
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, TRIMS, FLASHINGS, SUPPORT ANGLES, & OTHER ACCESSORIES. PREPARE ROUGH OPENING FOR INSTALLATION OF NEW WALL INFILL.

5A REMOVE METAL SOFFIT COMPLETE
INCLUDING ALL ASSOCIATED TRIMS, SEALANT, BACKUP FRAMING, ANGLES, & OTHER ACCESSORIES.

5B REMOVE GWB CEILING/BULKHEAD COMPLETE
INCLUDING ALL ASSOCIATED METAL FRAMING, HEADERS, TRIMS, & OTHER ACCESSORIES.

5C REMOVE ACT CEILING COMPLETE
INCLUDING ALL ASSOCIATED SUSPENSION SYSTEMS, CEILING GRID, TRIMS, & OTHER ACCESSORIES.

6A NOT USED.

6B REMOVE MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS.

6C REMOVE & RE-INSTALL MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. PREPARE EQUIP/FIXTURE FOR RE-INSTALLATION IN NEW LOCATION.SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS.

6D REMOVE & SALVAGE MECH/PLUMBING EQUIP/FIXTURE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, PIPING, CONDUIT, & OTHER ACCESSORIES. SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMOLITION EXTENTS AND TERMINATION OF EXISTING MEP CONNECTIONS. SAFELY STORE & RETURN EQUIPMENT/FIXTURE TO OWNER AT END OF PROJECT.

7A REMOVE ELECTRICAL EQUIPMENT/FIXTURE COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CONDUIT, & OTHER ACCESSORIES. SEE ELECTRICAL.

7B REMOVE & RE-INSTALL ELEC EQUIP/FIXTURE COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CONDUIT, & OTHER ACCESSORIES. SEE ELECTRICAL.

8A REMOVE CASEWORK COMPLETE
INCLUDING EXISTING BUILT-IN CABINETS, COUNTERTOPS, SHELVES, BOARDS AND ASSOCIATED HARDWARE, FRAMING, & OTHER ACCESSORIES.

9A REMOVE & SALVAGE EQUIPMENT (BY OWNER)
ITEMS TO BE REMOVED & SALVAGED PRIOR TO COMMENCEMENT OF WORK. OWNER TO REINSTALL SELET ITEMS UNDER NEW WORK SCOPE. SEE PLANS. SEE SPEC.

10A REMOVE METAL GUTTER/DOWNSPOUTS COMPLETE
INCLUDING ALL ASSOCIATED MOUNTING HARDWARE & OTHER ACCESSORIES. SEE DEMOLITION ELEVATONS.

10B REMOVE CONCEALED GUTTER WALL ASSEMBLY COMPLETE
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139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: DEMO CEILING PLAN

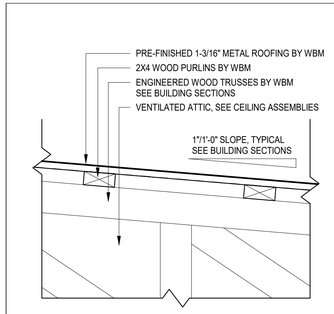
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GENERAL NOTES - ASSEMBLIES:

WALL ASSEMBLIES:
- ALL WALLS WITH SOUND BATT INSULATION ARE TO HAVE ACOUSTICAL SEALANT CONTINUOUS AT TOP & BOTTOM OF WALLS, TYPICAL.
- WHERE GYPSUM WALL BOARD IS LOCATED WITHIN WET LOCATIONS (INCLUDING RESTROOMS AND KITCHENS), OR ON ANY WALL TO RECEIVE A PLUMBING FIXTURE, CONTRACTOR SHALL PROVIDE MOISTURE AND MOLD RESISTANT TYPE GYPSUM WALL BOARD. CONTRACTOR SHALL PAINT WALL WITH A NON-ABSORBENT, EPOXY-BASED PAINT. SEE ROOM FINISH SCHEDULE. SEE SPECIFICATIONS.
- WHERE STUD WALLS CONTAIN WALL OPENINGS, CONTRACTOR SHALL PROVIDE STUD PACKS AT EACH JAMB, CONTINUOUS FROM BOTTOM SILL PLATE TO TOP PLATE, U.N.O. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL FOR INFORMATION ON METAL STUD SIZE, GAUGE, QUANTITY, AND SPACING.
- REFER TO STRUCTURAL FOR INFORMATION ON WOOD STUD SIZES, SPECIES, AND GRADING REQUIREMENTS.
- WHERE RIGID INSULATION IS PROVIDED, IT SHALL BE PROTECTED FROM IGNITION AT ALL TIMES. THIS INCLUDES RIGID INSULATION IN ALL CEILING PLENUMS (LOCATED ABOVE THE CEILING AND BELOW THE ROOF DECK). NO FOAM PASTIC SHALL BE EXPOSED TO THE INTERIOR OF THE BUILDING. SEE SECTIONS, DETAILS, AND SPECIFICATIONS.
- ALL GYPSUM WALL BOARD & GYPSUM BOARD CEILINGSTHAT ARE EXPOSED TO VIEW SHALL BE PRIMED & PAINTED. SEE SPECIFICATIONS & ROOM FINISH SCHEDULE.
- SWITCH, RECEPTACLE, JUNCTION BOXES, AND OTHER RECESSED EQUIPMENT WITHIN WALLS SHALL NOTBE INSTALLED BACK-TO-BACK UNLESS SPECIFICALLY NOTED. PROVIDE MINIMUM 3" SOUND BATT INSULATION BETWEEN STAGGERED BOXES, TYPICAL.

WALL ASSEMBLIES (CONT.):
- SEE WALL TYPES FOR HEIGHT OF NEW WALL ASSEMBLIES. SEE ELEVATIONS, SECTIONS, AND DETAILS FOR EXACT HEIGHTS AND LOCATIONS. DIMENSIONS REFERENCING EXISTING STRUCTURE IS TO BE FIELD VERIFIED, TYPICAL.
- SEE ROOM FINISH SCHEDULE FOR WALL & CEILING FINISHES.
- PROVIDE IN-WALL & ABOVE CEILING BLOCKING AS REQUIRED FOR NEW WALL & CEILING MOUNTED CASEWORK, EQUIPMENT, AND DEVICES. COORDINATE BLOCKING WITH SHEETS OF ALL TRADES. CONTRACTOR IS TO PROVIDE & INSTALL BLOCKING FOR ALL OWNER FURNISHED EQUIPMENT, TYPICAL.
- PROVIDE FIRE BLOCKING AT LOCATIONS & INTERVALS IN COMPLIANCE WITH APPLICABLE INTERNATIONAL BUILDING CODE REQUIREMENTS. SEE CODE ANALYSIS FOR FURTHER INFORMATION.
- SEE PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS WHERE IN-WALL BLOCKING IS REQUIRED FOR MILLWORK, EQUIPMENT, AND OTHER OWNER-FURNISHED ITEMS.

FIRE RATED ASSEMBLIES:
- PROVIDE MATERIALS & ATTACHMENTS FOR ALL ASSEMBLIES PER UL-TESTED ASSEMBLY LISTINGS.
- WHERE PENETRATIONS OCCUR/EXIST IN FIRE-RATED ASSEMBLIES, CONTRACTOR SHALL FILL GAPS WITH FIRE SAFING & SEAL WITH A UL-LISTED FIRE-RATED SEALANT.
- WHERE FIRE-RATED ASSEMBLIES INTERSECT NON-RATED ASSEMBLIES, MAINTAIN THE CONTINUITY OF FIRE-RATED ASSEMBLIES. SEE DETAILS.



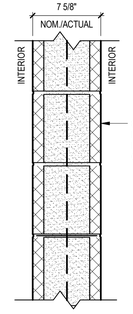
ROOF IDENTIFICATION — R1

ROOF ASSEMBLY - WOOD TRUSS & PURLIN

ASSEMBLY THICKNESS:		VARIES
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE SECTIONS FOR BEARING HEIGHTS/TYPES.
- PROVIDE VENTED RIDGE CAP, SEE DETAILS.
- PROVIDE STRIP-VENT AT EAVES, SEE DETAILS. SEE SPECIFICATIONS.
- SEE CEILING ASSEMBLIES FOR ATTIC INSULATION.
- SEE ROOF PLAN.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



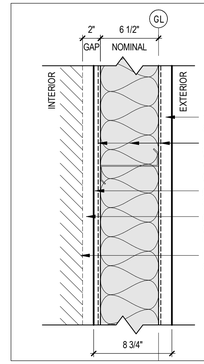
WALL IDENTIFICATION — W3

INTERIOR WALL - MASONRY (CMU) WALL

WALL THICKNESS:	ACTUAL (W2B):	0' - 7 5/8"
	NOMINAL:	0' - 7 5/8"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE PLAN FOR PROPOSED CONTROL JOINTS.
- PROVIDE SPECIAL SHAPES AS REQUIRED FOR PATCHING OF EXISTING CMU AND NEW CMU WALLS.
- SEE STRUCTURAL MASONRY REINFORCEMENT AND HEAD WALL ATTACHMENT TO EXISTING PEMB MAIN FRAME. NOTE: INTENT IS FOR T.O. MASONRY WALL TO FOLLOW PROFILE OF EXISTING PEMB MAIN FRAME, LIKE EXISTING CONDITIONS.
- SEE STRUCTURAL FOR SIZING OF MASONRY LINTELS AND/OR BOND BEAMS.
- WHERE MASONRY IS SPECIFIED TO BE PAINTED, PROVIDE BLOCK FILLER PRIOR TO INSTALLING PAINT FINISH.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



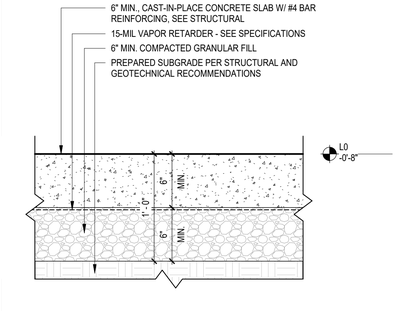
WALL IDENTIFICATION — W1C

EXTERIOR WALL - EXISTING PEMB W/ NEW METAL PANEL

WALL THICKNESS:	ACTUAL (W/O FUR WALL):	0'-8 3/4"
	NOMINAL:	0' - 6 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- AT LOCATIONS WITH EXISTING EXTERIOR METAL PANEL SIDING TO REMAIN, INSTALL NEW PAINT FINISH TO EXISTING METAL PANELS. SEE DEMOLITION PLANS. SEE SPEC.
- FIELD VERIFY EXISTING GIRT/SUBSTRUCTURE. PROVIDE ADDITIONAL GIRTS AS REQUIRED FOR SECURE ATTACHMENT OF NEW METAL WALL PANELS PER MANUFACTURER INSTRUCTIONS.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



FLOOR IDENTIFICATION — F3

APPARATUS GARAGE SLAB-ON-GRADE

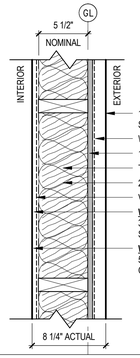
ASSEMBLY THICKNESS:		1' - 0"

SEE FLOOR PLANS, BUILDING SECTIONS, WALL SECTIONS, DETAILS, AND STRUCTURAL DRAWINGS FOR EXACT SIZES, DIMENSIONS, & REINFORCEING AT THICKENED SLABS, PERIMETERS, FOOTINGS, OR OTHER RELATED ELEMENTS.

ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE PLAN FOR PROPOSED CONTROL JOINTS
- COORDINATE INSTALLATION OF CONCRETE SLAB WITH NEW CLEAN-OUTS, TRENCH DRAINS, AND OTHER BELOW SLAB PIPING.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



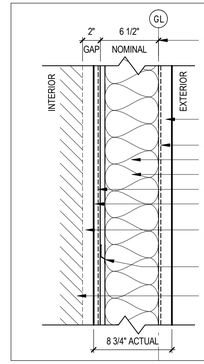
WALL IDENTIFICATION — W2B/C

EXTERIOR WALL - PEWB W/ METAL PANEL

WALL THICKNESS:	ACTUAL (W2B):	0' - 8 1/4"
	ACTUAL (W2C):	0' - 8 1/8"
	NOMINAL:	0' - 5 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



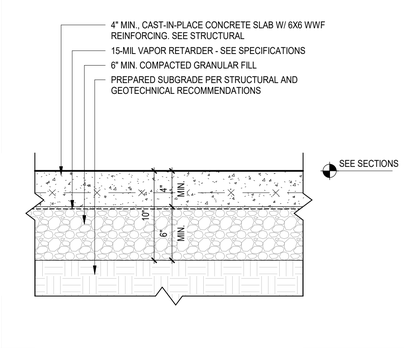
WALL IDENTIFICATION — W1B

EXTERIOR WALL - PEMB INFILL W/ METAL PANEL

WALL THICKNESS:	ACTUAL (W/O FUR WALL):	0' - 8 3/4"
	NOMINAL:	0' - 6 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- DESIGN INTENT IS FOR INTERIOR AND EXTERIOR FINISHES TO ALIGN WITH EXISTING PEMB GIRT WALL ASSEMBLIES BEYOND. FIELD VERIFY.
- TIE-IN NEW WEATHER/VAPOR BARRIER TO ADJACENT EXISTING WEATHER/VAPOR BARRIERS, RESPECTIVELY, PER MANUFACTURER INSTRUCTIONS.
- AT INFILL LOCATIONS WITH ADJACENT EXISTING EXTERIOR METAL PANEL SIDING TO REMAIN, CLAD INFILL AREA WITH EXISTING METAL SIDING FROM SALVAGED MATERIALS TO MATCH EXISTING PROFILE & FINISH. SEE DEMOLITION PLANS.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



FLOOR IDENTIFICATION — F2

CONNECTOR FLOORING & RAMP

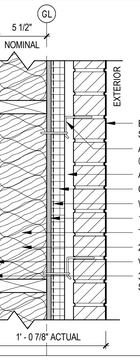
ASSEMBLY THICKNESS:		0' - 10"

SEE FLOOR PLANS, BUILDING SECTIONS, WALL SECTIONS, DETAILS, AND STRUCTURAL DRAWINGS FOR EXACT SIZES, DIMENSIONS, & REINFORCEING AT THICKENED SLABS, PERIMETERS, FOOTINGS, OR OTHER RELATED ELEMENTS.

ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE PLAN FOR PROPOSED CONTROL JOINTS.
- COORDINATE INSTALLATION OF CONCRETE SLAB WITH NEW CLEAN-OUTS, FLOOR DRAINS, RECESSED SINKS, AND OTHER BELOW SLAB PIPING.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



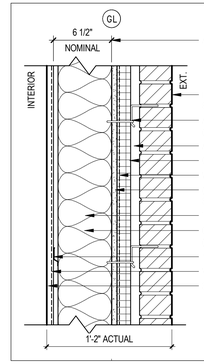
WALL IDENTIFICATION — W2A

EXTERIOR WALL - EXTERIOR PEWB W/ BRICK

WALL THICKNESS:	ACTUAL:	1' - 0 7/8"
	NOMINAL:	0' - 5 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE EXTRERIOR ELEVATIONS FOR EXTENTS OF BRICK WORK.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



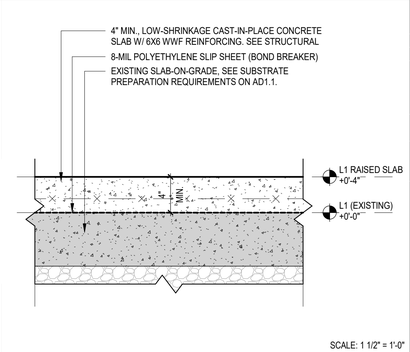
WALL IDENTIFICATION — W1A

EXTERIOR WALL - PEMB INFILL W/ BRICK

WALL THICKNESS:	ACTUAL:	1'-2"
	NOMINAL:	0' - 6 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- DESIGN INTENT IS FOR INTERIOR AND EXTERIOR FINISHES TO ALIGN WITH EXISTING PEMB GIRT WALL ASSEMBLIES BEYOND. FIELD VERIFY.
- TIE-IN NEW WEATHER/VAPOR BARRIER TO ADJACENT EXISTING WEATHER/VAPOR BARRIERS, RESPECTIVELY, PER MANUFACTURER INSTRUCTIONS.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



FLOOR IDENTIFICATION — F1

TOPPING SLAB OVER EXISTING SLAB-ON-GRADE

ASSEMBLY THICKNESS:		0' - 4"

SEE FLOOR PLANS, BUILDING SECTIONS, WALL SECTIONS, DETAILS, AND STRUCTURAL DRAWINGS FOR EXACT SIZES, DIMENSIONS, & REINFORCEING AT THICKENED SLABS, PERIMETERS, FOOTINGS, OR OTHER RELATED ELEMENTS.

ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE DETAILS FOR SEPARATION & ISOLATION OF NEW CONCRETE RELATIVE TO EXISTING CONDITIONS.
- SEE PLAN FOR PROPOSED CONTROL JOINTS. NOTE THAT EXIST. MOVEMENT JOINTS ARE TO BE REFLECTED THROUGH NEW TOPPING TO MINIMIZE DIFFERENTIAL CRACKING.
- COORDINATE CHANNEL & PATCHING OF EXISTING SLAB FOR NEW SUB-SLAB UTILITY ROUTING. NOTE: COMPLETE EXISTING SLAB PATCHING PRIOR TO INSTALL OF BOND BREAKER & NEW TOPPING SLAB.
- EXISTING SLAB ELEVATION VARIES. PROVIDE 4" MINIMUM THICKNESS OF NEW SLAB AT ALL LOCATIONS.
- COORDINATE INSTALLATION OF CONCRETE SLAB WITH NEW CLEAN-OUTS, FLOOR DRAINS, RECESSED SINKS, AND OTHER BELOW SLAB PIPING.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: ASSEMBLIES

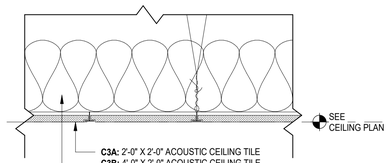
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GENERAL NOTES - ASSEMBLIES:

WALL ASSEMBLIES:
- ALL WALLS WITH SOUND BATT INSULATION ARE TO HAVE ACOUSTICAL SEALANT CONTINUOUS AT TOP & BOTTOM OF WALLS, TYPICAL.
- WHERE GYPSUM WALL BOARD IS LOCATED WITHIN WET LOCATIONS (INCLUDING RESTROOMS AND KITCHENS), OR ON ANY WALL TO RECEIVE A PLUMBING FIXTURE, CONTRACTOR SHALL PROVIDE MOISTURE AND MOLD RESISTANT TYPE GYPSUM WALL BOARD. CONTRACTOR SHALL PAINT WALL WITH A NON-ABSORBENT, EPOXY-BASED PAINT. SEE ROOM FINISH SCHEDULE. SEE SPECIFICATIONS.
- WHERE STUD WALLS CONTAIN WALL OPENINGS, CONTRACTOR SHALL PROVIDE STUD PACKS AT EACH JAMB, CONTINUOUS FROM BOTTOM SILL PLATE TO TOP PLATE, U.N.O. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL FOR INFORMATION ON METAL STUD SIZE, GAUGE, QUANTITY, AND SPACING.
- REFER TO STRUCTURAL FOR INFORMATION ON WOOD STUD SIZES, SPECIES, AND GRADING REQUIREMENTS.
- WHERE RIGID INSULATION IS PROVIDED, IT SHALL BE PROTECTED FROM IGNITION AT ALL TIMES. THIS INCLUDES RIGID INSULATION IN ALL CEILING PLENUMS (LOCATED ABOVE THE CEILING AND BELOW THE ROOF DECK). NO FOAM PASTIC SHALL BE EXPOSED TO THE INTERIOR OF THE BUILDING. SEE SECTIONS, DETAILS, AND SPECIFICATIONS.
- ALL GYPSUM WALL BOARD & GYPSUM BOARD CEILINGSTHAT ARE EXPOSED TO VIEW SHALL BE PRIMED & PAINTED. SEE SPECIFICATIONS & ROOM FINISH SCHEDULE
- SWITCH, RECEPTACLE, JUNCTION BOXES, AND OTHER RECESSED EQUIPMENT WITHIN WALLS SHALL NOTBE INSTALLED BACK-TO-BACK UNLESS SPECIFICALLY NOTED. PROVIDE MINIMUM 3" SOUND BATT INSULATION BETWEEN STAGGERED BOXES, TYPICAL.

WALL ASSEMBLIES (CONT.):
- SEE WALL TYPES FOR HEIGHT OF NEW WALL ASSEMBLIES. SEE ELEVATIONS, SECTIONS, AND DETAILS FOR EXACT HEIGHTS AND LOCATIONS. DIMENSIONS REFERENCING EXISTING STRUCTURE IS TO BE FIELD VERIFIED, TYPICAL.
- SEE ROOM FINISH SCHEDULE FOR WALL & CEILING FINISHES.
- PROVIDE IN-WALL & ABOVE CEILING BLOCKING AS REQUIRED FOR NEW WALL & CEILING MOUNTED CASEWORK, EQUIPMENT, AND DEVICES. COORDINATE BLOCKING WITH SHEETS OF ALL TRADES. CONTRACTOR IS TO PROVIDE & INSTALL BLOCKING FOR ALL OWNER FURNISHED EQUIPMENT, TYPICAL.
- PROVIDE FIRE BLOCKING AT LOCATIONS & INTERVALS IN COMPLIANCE WITH APPLICABLE INTERNATIONAL BUILDING CODE REQUIREMENTS. SEE CODE ANALYSIS FOR FURTHER INFORMATION.
- SEE PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS WHERE IN-WALL BLOCKING IS REQUIRED FOR MILLWORK, EQUIPMENT, AND OTHER OWNER-FURNISHED ITEMS.

FIRE RATED ASSEMBLIES:
- PROVIDE MATERIALS & ATTACHMENTS FOR ALL ASSEMBLIES PER UL-TESTED ASSEMBLY LISTINGS.
- WHERE PENETRATIONS OCCUR/EXIST IN FIRE-RATED ASSEMBLIES, CONTRACTOR SHALL FILL GAPS WITH FIRE SAFING & SEAL WITH A UL-LISTED FIRE-RATED SEALANT.
- WHERE FIRE-RATED ASSEMBLIES INTERSECT NON-RATED ASSEMBLIES, MAINTAIN THE CONTINUITY OF FIRE-RATED ASSEMBLIES. SEE DETAILS.

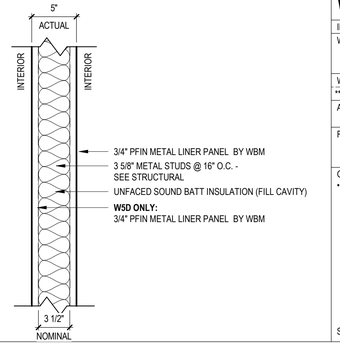


CEILING IDENTIFICATION C3A/B

ACOUSTIC CEILING TILE & GRID		
ASSEMBLY THICKNESS:		BY MANUF
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- PROVIDE & INSTALL HANGERS, TILE, GRID, TRIMS, AND ALL OTHER ACCESSORIES PER MANUFACTURER INSTRUCTIONS. SEE CEILING PLANS. SEE DETAILS. SEE SPEC.
- CENTER ALL CEILING-MOUNTED DEVICES & FIXTURES TO RESPECTIVE CEILING TILE U.N.O.
- CEILING GRIDS ARE ALIGNED WITHIN A ROOM RELATIVE TO THE CENTER OF A CEILING TILE OR THE CENTER OF A SUPPORT GRID. SEE CEILING PLANS FOR GRID ALIGNMENT.
- SEE ROOM FINISH SCHEDULE & FINISH LEGEND FOR TILE FINISHSTYLE.
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

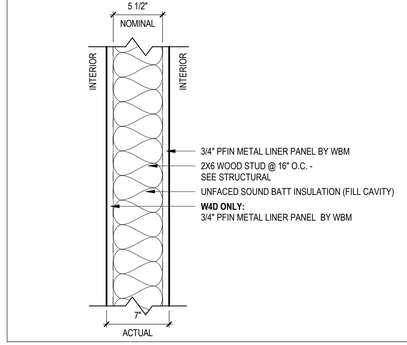


WALL IDENTIFICATION W5D/E

INTERIOR PARTITION - 2X4 WOOD FRAMING W/ MLP		
WALL THICKNESS:	ACTUAL (W4E):	0' - 5"
	ACTUAL (W4F):	0' - 4 1/4"
	NOMINAL:	0' - 3 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- **W5E:** OMIT ONE SIDE OF METAL LINER PANEL FOR CHASE APPLICATION. ACTUAL THICKNESS: 4.25".

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

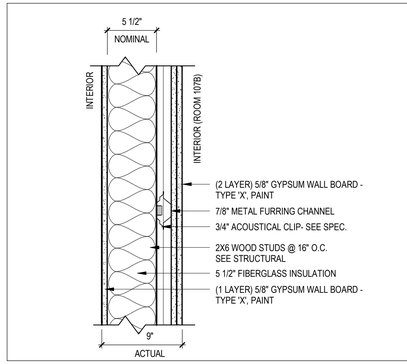


WALL IDENTIFICATION W4D/E

INTERIOR PARTITION - 2X6 WOOD FRAMING W/ MLP		
WALL THICKNESS:	ACTUAL:	0' - 7"
	NOMINAL:	0' - 5 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- **W4E:** OMIT ONE SIDE OF METAL LINER PANEL FOR CHASE APPLICATION. ACTUAL THICKNESS: 6.25".
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

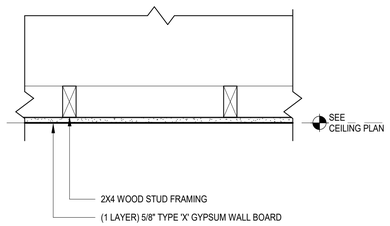


WALL IDENTIFICATION W5F/G

INTERIOR PARTITION - 2X4 WOOD FRAMING W/ GWB, 1 HR		
WALL THICKNESS:	ACTUAL:	0' - 9"
	NOMINAL:	0' - 5 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	61, MIN.
	TEST NUMBER:	TL07-672
FIRE RESISTANCE:	RATING (HOURS):	1-HOUR
	TEST NUMBER:	UL U305
	WALL TYPE:	UL U305

GENERAL REMARKS:
- **W5G:** OMIT ONE SIDE OF GWB FOR CHASE APPLICATION. ACTUAL THICKNESS: 8.375".
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).
- PROVIDE ACOUSTICAL SEALANT AT ALL JOINTS AND TRANSITIONS BETWEEN WALLS AND MATERIALS. SEE SPEC.
- FIRE SEAL ALL PENETRATIONS THROUGH WALL ASSEMBLY.
- SEE MECHANICAL FOR DAMPERS IN RATED ASSEMBLIES.

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

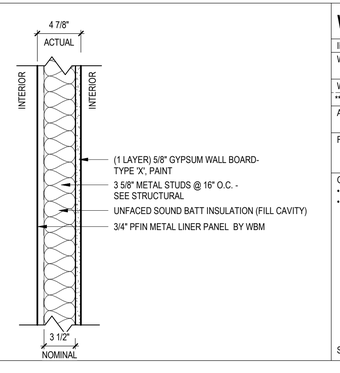


CEILING IDENTIFICATION C2

GYPSUM WALL BOARD CEILING		
ASSEMBLY THICKNESS:		VARIES
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- COORDINATE FRAMING MEMBERS AROUND RECESSED ELECTRICAL/MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL WOOD BLOCKING AS REQUIRED FOR SECURE MOUNTING OF FIXTURES.
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

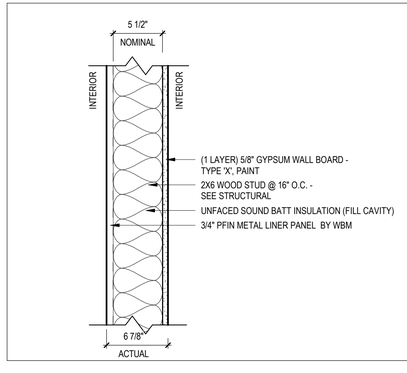


WALL IDENTIFICATION W5C

INTERIOR PARTITION - 2X4 WOOD FRAMING W/ GWB & MLP		
WALL THICKNESS:	ACTUAL:	0' - 4 7/8"
	NOMINAL:	0' - 3 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	1
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE ROOM FINISH SCHEDULE TO DETERMINE ORIENTATION.
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

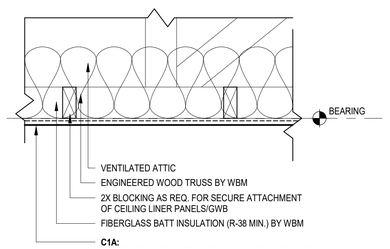


WALL IDENTIFICATION W4C

INTERIOR PARTITION - 2X6 WOOD FRAMING W/ GWB & MLP		
WALL THICKNESS:	ACTUAL:	0' - 4 7/8"
	NOMINAL:	0' - 5 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE ROOM FINISH SCHEDULE TO DETERMINE ORIENTATION.
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

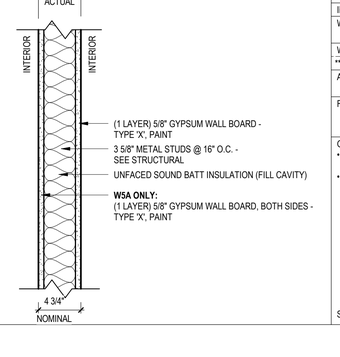


CEILING IDENTIFICATION C1A/B

INSULATED ATTIC CEILING		
ASSEMBLY THICKNESS:		VARIES
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- SEE CEILING PLANS.
- SEE BUILDING SECTIONS.
- COORDINATE INSTALLATION OF CEILING-MOUNTED EQUIPMENT AND DEVICES WITH RESPECTIVE CEILING TYPE. PROVIDE SUPPLEMENTAL IN-CEILING BLOCKING AS REQUIRED FOR WORK.
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

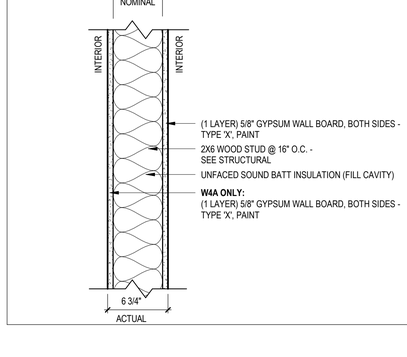


WALL IDENTIFICATION W5A/B

INTERIOR PARTITION - 2X4 WOOD FRAMING W/ GWB		
WALL THICKNESS:	ACTUAL:	0' - 4 3/4"
	NOMINAL:	0' - 3 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- **W5B:** OMIT ONE SIDE OF GYPSUM WALL BOARD FOR CHASE APPLICATION. ACTUAL THICKNESS: 4.125".
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE



WALL IDENTIFICATION W4A/B

INTERIOR PARTITION - 2X6 WOOD FRAMING W/ GWB		
WALL THICKNESS:	ACTUAL:	0' - 6 3/4"
	NOMINAL:	0' - 5 1/2"
WALL HEIGHT:		AT OR ABOVE ROOF STRUCTURE
*** SEE SECTIONS, ELEVATIONS, & DETAILS FOR EXACT HEIGHTS***		
ACOUSTICAL RESISTANCE:	RATING (STC):	NA
	TEST NUMBER:	NA
FIRE RESISTANCE:	RATING (HOURS):	NA
	TEST NUMBER:	NA
	WALL TYPE:	NA

GENERAL REMARKS:
- **W4B:** OMIT ONE SIDE OF GYPSUM WALL BOARD FOR CHASE APPLICATION. ACTUAL THICKNESS: 6.125"
- PROVIDE MOISTURE, MOLD & MILDEW RESISTANT GWB AT LOCATIONS TO RECEIVE PLUMBING FIXTURES OR AREAS OF HIGH HUMIDITY (SHOWER ROOMS).

SCALE: 1 1/2" = 1'-0" NA = NOT APPLICABLE

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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: ASSEMBLIES

A0.2

GENERAL NOTES - FLOOR PLANS:

- PLAN LAYOUT, LOCATIONS OF DEVICES, SIZE OF COMPONENTS, HEIGHTS, SECTIONS AND DETAILS WERE DERIVED FROM RECORD DRAWINGS OF THE PREVIOUS ARCHITECT AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- DIMENSIONS ARE TAKEN FROM FACE OF WOOD/METAL STUDS OR STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE.
- DIMENSIONS SHOWN ADJACENT TO WALL TYPE TAGS INDICATE TOP OF WALL HEIGHTS ABOVE TOP OF SLAB-ON-GRADE LEVEL.
- DIMENSIONS AT DOORS AND WINDOWS IN WOOD STUD & PEMB WALLS ARE SHOWN AS "ROUGH OPENING" DIMENSIONS TO THE OUTSIDE OF THE DOOR FRAME. CONTRACTOR SHALL COORDINATE ACTUAL ROUGH OPENINGS WITH RELEVANT INSTALLER, AND DOOR MANUFACTURER PRIOR TO ORDER & INSTALLATION OF DOORS.
- AT NEW OPENINGS LARGER THAN 1'-4" WIDE IN EXISTING MASONRY WALLS, PROVIDE STEEL LINTEL AND/OR BOND BEAM. SEE STRUCTURAL.
- REFER TO THE CODE PLAN, WALL TYPES, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION ON FULL-HEIGHT WALLS THAT CONTINUE TO UNDERSIDE OF DECKING AND FIRE-RATED WALL ASSEMBLIES.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY GROUTING OF MASONRY CELLS AND IN-WALL BLOCKING AS REQUIRED TO SECURELY ATTACH ACCESSORIES, DEVICES, FIXTURES, EQUIPMENT AND MILLWORK TO WALL, CEILING OR FLOOR SURFACES (INCLUDING OWNER-FURNISHED-OWNER-INSTALLED FIXTURES, DEVICES, & CASEWORK).
- CONTRACTOR SHALL PROVIDE VERTICAL EXPANSION JOINTS @ 24'-0" O.C. (MAXIMUM) IN GYPSUM WALLBOARD AT ALL WALLS OVER 24 FEET LONG AND AT BOTH SIDES OF ALL DOOR, WINDOW, DUCT AND OTHER OPENINGS LARGER THAN 4 SQUARE FEET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- CUP FLOOR SLAB AT ALL FLOOR DRAIN LOCATIONS, SLOPE SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. SEE FLOOR PLANS FOR FLOOR SLAB SLOPES AT TRENCH DRAINS IN APPARATUS BAY.
- SIGNAGE PLAQUES ARE TO BE INSTALLED AT ALL DOORS. SEE FINISH PLAN AND TYPICAL MOUNTING HEIGHTS.
- ALL INTERIOR STEEL TO BE PRIMER GRAY. ALL EXTERIOR STEEL AND/OR LINTELS IN EXTERIOR WALLS TO BE HOT-DIPPED GALVANIZED, PAINT.
- SEE INTERIOR ELEVATIONS, FINISH PLANS AND FINISH SCHEDULE FOR FURTHER CLARIFICATION OF MATERIALS AND LOCATION OF FINISHES.
- SEE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL NEW SURFACE MOUNTED/EXPOSED CONDUIT/PIPING SHALL BE PAINTED EXCEPT IN MECHANICAL ROOMS, STORAGE ROOMS, AND JANITOR CLOSETS. PLASTIC PANDUIT SHALL NOT BE PAINTED.
- DASHED LINES ON PLANS ADJACENT TO DOORS, EQUIPMENT, FIXTURES, ETC. IDENTIFY ACCESSIBLE (ADA) CLEARANCE REQUIREMENTS. ACCESSIBLE CLEARANCES ARE SHOWN FOR REFERENCE AND COORDINATION PURPOSES.
- CONTRACTOR SHALL PROTECT ALL EXISTING "TO REMAIN" FINISHED SURFACES, EQUIPMENT, DEVICES, AND OTHERWISE THROUGHOUT DEMOLITION AND CONSTRUCTION IN ALL WORK AREAS. CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
- DUST CONTROL & CONTAINMENT MEASURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DUST SHALL BE CONTROLLED SO NOT TO FILTER INTO ADJACENT SPACES & EXISTING MECHANICAL EQUIPMENT. PROVIDE DOUBLE FILTERS @ ALL RETURN GRILLES, TYPICAL. IF DUST MIGRATION IS FOUND, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ALL EFFECTED AREAS AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATION.
- CONTRACTOR SHALL PROVIDE DUST-CONTROL ADHESIVE-SURFACE WALK-OFF MATS, AS REQUIRED, TO PROTECT EXISTING FLOOR FINISHES THAT ARE SHOWN TO REMAIN. ADHESIVE-SURFACE LAYERS TO BE CHANGED OUT REGULARLY SO TO MAINTAIN A STICKY SURFACE. SEE SPECIFICATION.
- WHERE RIGID INSULATION IS PROVIDED, IT SHALL BE PROTECTED FROM IGNITION AT ALL TIMES. THIS INCLUDES RIGID INSULATION IN ALL CEILING PLENUMS (LOCATED ABOVE THE CEILING BUT BELOW THE ROOF DECK). NO FOAM PLASTIC SHALL BE EXPOSED TO THE INTERIOR OF THE BUILDING. SEE ASSEMBLIES.
- WHERE PATCHING IS REQUIRED, CEILING/WALL INFILL SHALL BE FINISHED TO MATCH ADJACENT EXISTING SURFACES. CONTRACTOR SHALL BLEND NEW CEILING/WALL TEXTURES INTO EXISTING TEXTURES TO RESULT IN A UNIFORM FINISH/APPEARANCE AND, AS REQUIRED, REPAINT THE ENTIRE FIELD FROM CORNER TO CORNER TO RESULT IN A CONSISTENT FINISH. SEE ROOM FINISH SCHEDULE FOR INFORMATION REGARDING PAINT.
- ALL ABANDONED WALL BOXES/CAVITIES FROM DEMOLISHED FIXTURES & DEVICES SHALL BE PATCHED AS NOTED ON THE NEW FLOOR PLANS. WHERE NO PATCH WORK IS INDICATED, THE REMAINING OPENINGS SHALL RECEIVE STAINLESS STEEL METAL "BLANK" PLATES OR COVERS. WHERE CUSTOM SIZED METAL FABRICATIONS ARE REQUIRED TO COVER CAVITIES, PROVIDE A MINIMUM 16 GAUGE MATERIAL WITH HEMMED EDGES. WHERE OPENINGS LARGER THAN 16" EXIST, PROVIDE ADDITIONAL WELDED SUPPORTS @ 12" O.C. AS REQUIRED.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH NEW WORK, INCLUDING COORDINATION WITH ALL FIRE SPRINKLER, FIRE ALARM, MECHANICAL, ELECTRICAL AND PLUMBING TRADES. EACH CONTRACTOR SHOULD COORDINATE WITH ALL OTHER DISCIPLINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING ANY AND ALL NECESSARY OPENINGS INTO THE BUILDING, AS REQUIRED TO REMOVE EXISTING ITEMS/EQUIPMENT, AND/OR TO BRING IN AND INSTALL NEW ITEMS/EQUIPMENT. ALL TEMPORARY OPENINGS SHALL BE PATCHED AND FINISHED WITH LIKE MATERIALS TO MATCH THE PRE-EXISTING CONDITIONS.
- THE PRE-ENGINEERED WOOD BUILDING,WOOD COLUMNS, WOOD TRUSSES, END WALLS FRAMES, LADDER FRAMES, PURLINS, METAL SIDING PANELS, METAL ROOFING, METAL LINER PANEL, FASCIAS, GUTTERS, DOWNSPOUTS, INSULATION, EXTRUDED METAL SIDING TRIMS AT OPENINGS, CLIPS, ANGLES, FASTENERS, ATTACHMENTS AND ALL OTHER RELATED ACCESSORIES ARE PROVIDED BY THE INDEPENDENT WOOD BUILDING CONTRACTOR AND ARE THE SOLE RESPONSIBILITY OF THE WOOD BUILDING MANUFACTURER AND INSTALLATION CONTRACTOR.
- ALL EXTERIOR CONCRETE STOOPS TO SLOPE 1/4" PER FOOT MAXIMUM AND 1/8" PER FOOT MINIMUM AWAY FROM THE BUILDING. SEE STRUCTURAL.
- DIMENSIONS AT STOOPS ARE MEASURED FROM THE EDGE OF STOOP TO EXTERIOR FACE OF GIRT. COORDINATE WITH STRUCTURAL. NOTE THAT STRUCTURAL DIMENSIONS ARE FROM GRID LINES OR FROM THE FACE OF ADJACENT FOOTINGS.

LEGEND - EQUIPMENT BY OWNER (8X)

PROVIDE & INSTALL ALL ASSOCIATED UTILITY SCOPE AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED, OWNER INSTALLED ITEMS AS INDICATED BELOW:

KEY	ITEM
8A	LAUNDRY MACHINE
8B	DRYER
8C	OXYGEN TANK FILL
8D	GEAR DRYING CABINET
8E	AIR COMPRESSOR (& ASSOC. PIPING, HOSE REELS)
8F	KITCHEN SINK
8G	REFRIGERATOR W/ ICE MAKER
8H	RESIDENTIAL ELECTRIC RANGE

SEE MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS. COORDINATE WITH OWNER AS REQUIRED.

LEGEND - RESTROOM ACCESSORIES (9X)

KEY	RESP.	ITEM
9A	CFCI	GRAB BAR (STAINLESS STEEL)
9B	CFCI	PAPER TOWEL DISPENSER & TRASH COMBO
9C	CFCI	TOILET PAPER DISPENSER
9D	CFCI	SOAP DISPENSER
9E	CFCI	MIRROR, STAINLESS STEEL FRAME, 24" X 48" W/ SHELF @ RR 110 & RR 111
9F	CFCI	CHANGING BENCH
9G	CFCI	COAT/TOWEL HOOK
9H	CFCI	ACCESSIBLE SHOWER ACCESSORIES
9J	CFCI	FEMININE HYGIENE DISPOSAL
9K	CFOI	LOCKER ROOM BENCH

RESPONSIBILITY (RESP.):
CFCI = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI = CONTRACTOR FURNISHED, OWNER INSTALLED

SEE TYPICAL MOUNTING HEIGHTS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. SEE SPECIFICATIONS. FIELD VERIFY CONDITIONS OF ALL EXISTING MATERIALS.

+0'-0" DENOTES ELEVATION RELATIVE TO TOP OF SLAB-ON-GRADE. SEE BUILDING SECTIONS

KEYED NOTE LEGEND - FLOOR PLANS (#X)

1A REINFORCED CONCRETE SLAB-ON-GRADE TOPPING SLAB
SEE FLOOR IDENTIFICATION: F1
PROVIDE & INSTALL NEW CONCRETE TOPPING SLAB OVER EXISTING SLAB-ON-GRADE. SEE ASSEMBLIES. SEE STRUCTURAL. SEE FINISH PLAN & SCHEDULE FOR CONTROL JOINT (C.J.) LOCATIONS & FLOOR COVERINGS/FINISH.

1B REINFORCED CONCRETE SLAB-ON-GRADE
SEE FLOOR IDENTIFICATION: F2, F3
PROVIDE & INSTALL NEW CONCRETE SLAB-ON-GRADE. SEE ASSEMBLIES. SEE STRUCTURAL. SEE FINISH PLAN & SCHEDULE FOR CONTROL JOINT (C.J.) LOCATIONS & FLOOR COVERINGS/FINISH.

1C REINFORCED CONCRETE STOOP
PROVIDE & INSTALL REINFORCED CONCRETE STOOP, FIBER EXPANSION JOINTS, VOID FORMS & OTHER ASSOCIATED ACCESSORIES. SEE DETAILS & STRUCTURAL.

2A EXISTING STEEL STRUCTURE TO REMAIN
PROTECT THROUGHOUT THE DURATION OF THE PROJECT. REFINISH EXISTING PEMB MEMBERS ALONG GRID LINE #XD

3A KITCHEN CASEWORK (BY OWNER)
PROVIDE & INSTALL ALL ASSOCIATED IN-WALL BLOCKING & OTHER PREPARATORY SCOPE AS REQUIRED FOR OWNER FURNISHED, OWNER INSTALLED KITCHEN CASEWORK. SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR PROPOSED KITCHEN CABINET LAYOUTS.

3B WORKBENCH (BY OWNER)
PROVIDE & INSTALL ALL ASSOCIATED IN-WALL BLOCKING & OTHER PREPARATORY SCOPE AS REQUIRED FOR OWNER FURNISHED, OWNER INSTALLED WORKBENCH. SEE ELECTRICAL FOR POWER REQUIREMENTS.

3D DOUBLE-TIER WARDROBE (BY OWNER)
SHOWN FOR GENERAL LAYOUT / COORDINATION ONLY.

3E EQUIPMENT LOCKERS (BY OWNER)
SHOWN FOR GENERAL LAYOUT / COORDINATION ONLY.

3F WALL-MOUNT TELEVISION (BY OWNER)
PROVIDE & INSTALL ALL ASSOCIATED ELECTRICAL SCOPE, IN-WALL BLOCKING, AND OTHER ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED, OWNER INSTALLED TELEVISION & VESA MOUNT. COORDINATE W/ OWNER FOR MOUNTING HEIGHT PRIOR TO INSTALLATION.

4A HANDRAILS @ RAMP
PROVIDE & INSTALL STEEL HANDRAILS AT RAMP. SEE WALL SECTION @ RAMP FOR DETAILS.
- **COLOR/FINISH: PT-2** (SEE FINISH LEGEND)

4B RECESSED F.E.C.
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, BLOCKING, CABINET, FIRE EXTINGUISHER, MOUNTING & OTHER ACCESSORIES. SEE TYPICAL MOUNTING HEIGHTS & SPECIFICATIONS.

5A MECHANICAL EQUIPMENT
PROVIDE & INSTALL NEW MECHANICAL EQUIPMENT INCLUDING ALL ASSOCIATED DUCTWORK, CONDUIT, PIPING, HOUSEKEEPING/EXTERIOR CONCRETE PADS, & ALL OTHER ACCESSORIES AS REQUIRED. SEE MECHANICAL.

6A PLUMBING FIXTURE/EQUIPMENT
PROVIDE & INSTALL NEW PLUMBING FIXTURE/EQUIPMENT AS SHOWN. PROVIDE ALL ASSOCIATED PIPING, HANGERS, & OTHER ACCESSORIES AS REQUIRED. SEE PLUMBING. SEE TYPICAL MOUNTING HEIGHTS.

7A ELECTRICAL EQUIPMENT
PROVIDE & INSTALL NEW ELECTRICAL EQUIPMENT INCLUDING ALL ASSOCIATED CONDUIT, CONDUCTORS, & OTHER ACCESSORIES. SEE ELECTRICAL.

7B FIRE ALARM CONTROL PANEL
PROVIDE & INSTALL FIRE ALARM CONTROL PANEL INCLUDING ALL ASSOCIATED ACCESSORIES. SEE ELECTRICAL. SEE FIRE PROTECTION.

8# EQUIPMENT BY OWNER
SEE EQUIPMENT BY OWNER LEGEND.

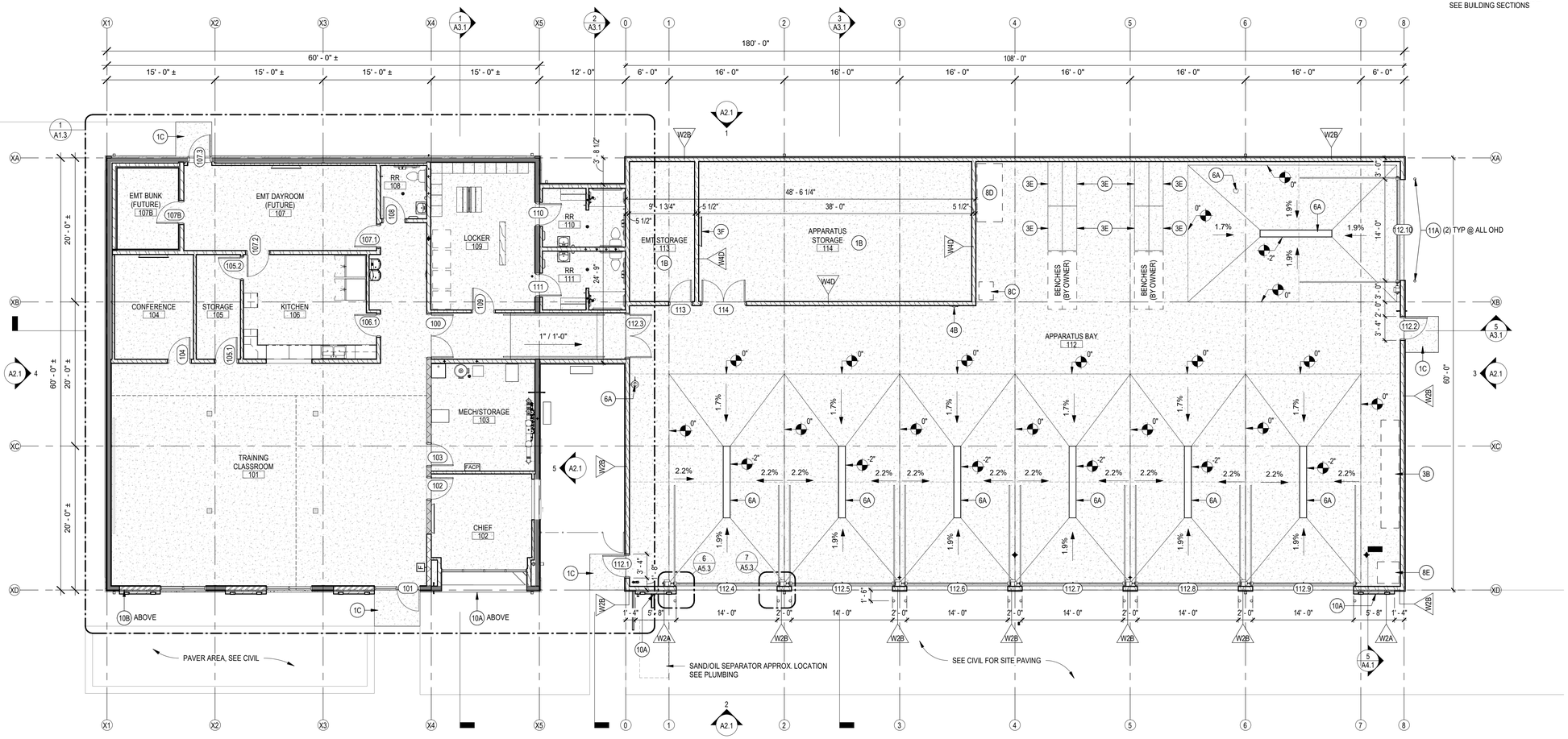
9# RESTROOM ACCESSORIES
SEE RESTROOM ACCESSORIES LEGEND.

10A BUILDING SIGNAGE (BY OWNER)
SHOWN FOR GENERAL LAYOUT / COORDINATION ONLY. SEE EXTERIOR ELEVATIONS.

10B BUILDING ADDRESS SIGNAGE
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, BLOCKING & OTHER ACCESSORIES. 8" HEIGHT, 1/2" STROKE, ARIAL FONT.
SEE EXTERIOR ELEVATIONS & SPECIFICATIONS.

11A PIPE BOLLARD
PROVIDE & INSTALL CONCRETE-FILLED STEEL TRAFFIC BOLLARDS INCLUDING ALL ASSOCIATED FOOTINGS & ACCESSORIES. SEE CIVIL. BOLLARDS ARE TO BE GALVANIZED AND PAINTED. SEE SPECIFICATIONS SEE STRUCTURAL.
- **COLOR/FINISH: PT-BOL** (SEE FINISH LEGEND)

11B CHAIN LINK FENCE & GATE W/ PRIVACY SLATS
PROVIDE & INSTALL NEW GALVANIZED CHAIN-LINK FENCE, FENCE GATE, AND ALL ASSOCIATED CONCRETE POST FOOTINGS, SUPPORTS, FASTENERS, AND ACCESSORIES PER MANUFACTURER INSTRUCTIONS. PROVIDE PRIVACY SLATS AT ALL FENCE SECTIONS. SEE SPECIFICATIONS.



1 **FLOOR PLAN**
1/8" = 1'-0"

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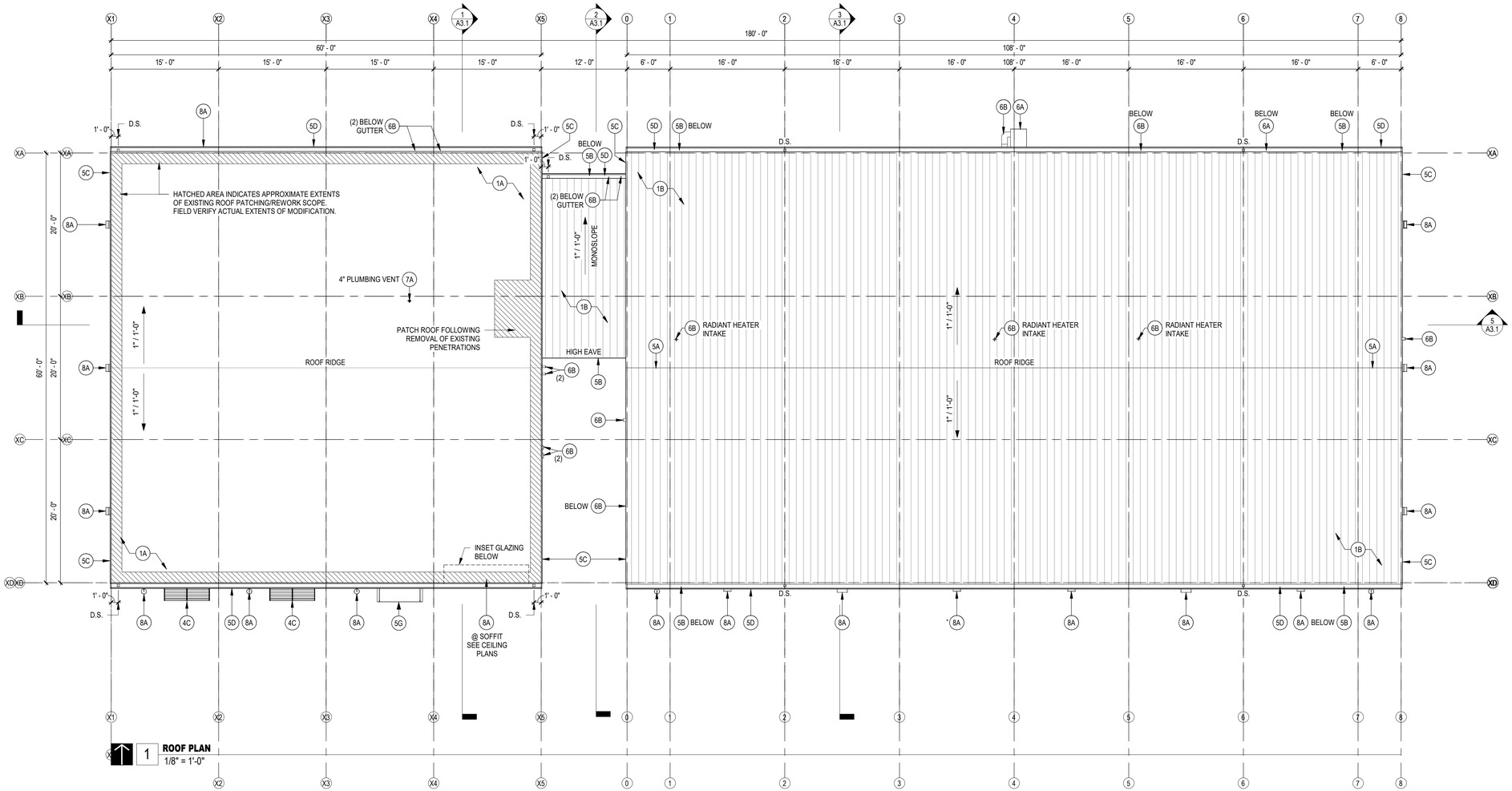
PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: FLOOR PLAN

A1.1

GENERAL NOTES - ROOF PLANS:

- PLAN LAYOUT, LOCATIONS OF DEVICES, SIZE OF COMPONENTS, HEIGHTS, SECTIONS AND DETAILS WERE DERIVED FROM RECORD DRAWINGS OF THE PREVIOUS ARCHITECT AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- DIMENSIONS AT EXISTING & NEW WALLS ARE BASED ON NOMINAL WALL THICKNESS. SEE ASSEMBLIES FOR ACTUAL WALL DIMENSIONS.
- DIMENSIONS ARE TAKEN FROM WOOD/METAL STUDS, STRUCTURAL MEMBERS, OR GRID LINES UNLESS NOTED OTHERWISE.
- EXTERIOR & PERMITER DIMENSIONS ARE TAKEN FROM GRID LINES UNLESS NOTED OTHERWISE.
- REFER TO THE CODE PLAN, WALL TYPES, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION ON FULL-HEIGHT WALLS THAT CONTINUE TO UNDERSIDE OF DECKING AND FIRE-RATED WALLS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY GROUTING OF MASONRY CELLS AND IN-WALL BLOCKING AS REQUIRED TO SECURELY ATTACH ACCESSORIES, DEVICES, FIXTURES, EQUIPMENT AND MILLWORK TO WALL, CEILING OR FLOOR SURFACES.
- ALL INTERIOR STEEL TO BE PRIMIER GRAY. ALL EXTERIOR STEEL AND/OR LINTELS IN EXTERIOR WALLS TO BE HOT-DIPPED GALVANIZED, PAINT.
- COORDINATE DIMENSIONS BETWEEN ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE SUPPRESSION, AND SITE DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION.
- COORDINATE ALL BUILT-IN ITEMS AND MECHANICAL/ELECTRICAL FIXTURES WITH ACTUAL DIMENSIONS AND ADJUST AS REQUIRED. DIMENSIONS PERTAINING TO MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT SHALL BE VERIFIED WITH RESPECTIVE TRADES. VERIFY EXACT DIMENSIONS WITH MANUFACTURER, TYPICAL.
- ALL GUTTERS SHALL SLOPE TO DOWNSPOUTS, TYPICAL.
- MECHANICAL PIPES, PLUMBING VENTS, EXHAUST FANS, LOUVERS, REGISTERS AND ALL OTHER PENETRATIONS SHALL NOT PASS THROUGH EXTERIOR WALLS OR ROOF UNLESS SHOWN ON THESE ELEVATIONS OR DISCUSSED WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION. ALL APPROVED PENETRATIONS SHALL NOT INTERSECT METAL PANEL RIBS. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS.
- SEE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL NEW SURFACE MOUNTED/EXPOSED CONDUIT/PIPING SHALL BE PAINTED EXCEPT IN MECHANICAL ROOMS, STORAGE ROOMS, AND JANITOR CLOSETS. PLASTIC PANDUIT SHALL NOT BE PAINTED.
- CONTRACTOR SHALL PROTECT ALL EXISTING TO REMAIN FINISHED SURFACES, EQUIPMENT, DEVICES, AND THE LIKE, THROUGHOUT DEMOLITION AND CONSTRUCTION, IN ALL WORK AREAS UNLESS NOTED TO BE REMOVED. CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
- DUST CONTROL & CONTAINMENT MEASURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. DUST SHALL BE CONTROLLED SO NOT TO FILTER INTO ADJACENT SPACES & EXISTING MECHANICAL EQUIPMENT. PROVIDE DOUBLE FILTERS @ ALL RETURN GRILLES, TYPICAL. IF DUST MIGRATION IS FOUND, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ALL EFFECTED AREAS AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. SEE SPECIFICATION.
- CONTRACTOR SHALL PROVIDE DUST-CONTROL ADHESIVE-SURFACE WALK-OFF MATS, AS REQUIRED, TO PROTECT EXISTING FLOOR FINISHES THAT ARE SHOWN TO REMAIN. ADHESIVE-SURFACE LAYERS TO BE CHANGED OUT REGULARLY SO TO MAINTAIN A STICKY SURFACE. SEE SPECIFICATION.
- WHERE RIGID INSULATION IS PROVIDED, IT SHALL BE PROTECTED FROM IGNITION AT ALL TIMES. THIS INCLUDES RIGID INSULATION IN ALL CEILING PLENUMS (LOCATED ABOVE THE CEILING BUT BELOW THE ROOF DECK). NO FOAM PLASTIC SHALL BE EXPOSED TO THE INTERIOR OF THE BUILDING. SEE ASSEMBLIES.
- WHERE PATCHING IS REQUIRED, CEILING/WALL INFILL SHALL BE FINISHED TO MATCH ADJACENT EXISTING SURFACES. CONTRACTOR SHALL BLEND NEW CEILING/WALL TEXTURES INTO EXISTING TEXTURES TO RESULT IN A UNIFORM FINISH/APPEARANCE AND, AS REQUIRED, REPAINT THE ENTIRE FIELD FROM CORNER TO CORNER TO RESULT IN A CONSISTENT FINISH. SEE ROOM FINISH SCHEDULE FOR INFORMATION REGARDING PAINT.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH NEW WORK, INCLUDING COORDINATION WITH ALL FIRE SPRINKLER, FIRE ALARM, MECHANICAL, ELECTRICAL AND PLUMBING TRADES. EACH CONTRACTOR SHOULD COORDINATE WITH ALL OTHER DISCIPLINES .
- CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING ANY AND ALL NECESSARY OPENINGS INTO THE BUILDING, AS REQUIRED TO REMOVE EXISTING ITEMS/EQUIPMENT, AND/OR TO BRING IN AND INSTALL NEW ITEMS/EQUIPMENT. ALL TEMPORARY OPENINGS SHALL BE PATCHED AND FINISHED WITH LIKE MATERIALS TO MATCH THE PRE-EXISTING CONDITIONS.
- THE PRE-ENGINEERED WOOD BUILDING,WOOD COLUMNS, WOOD TRUSSES, END WALLS FRAMES, LADDER FRAMES, PURLINS, METAL SIDING PANELS, METAL ROOFING, METAL LINER PANEL, FASCIAS, GUTTERS, DOWNSPOUTS, INSULATION, EXTRUDED METAL SIDING TRIMS AT OPENINGS, CLIPS, ANGLES, FASTENERS, ATTACHMENTS AND ALL OTHER RELATED ACCESSORIES ARE PROVIDED BY THE INDEPENDENT WOOD BUILDING CONTRACTOR AND ARE THE SOLE RESPONSIBILITY OF THE WOOD BUILDING MANUFACTURER AND INSTALLATION CONTRACTOR.



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

KEYED NOTE LEGEND - ROOF PLAN & ELEV. #X

1A EXISTING MEMBRANE ROOF TO REMAIN
MEMBRANE ROOF @ EXISTING BUILDING TO REMAIN THROUGHOUT DEMOLITION & CONSTRUCTION. MODIFY ROOF ASSEMBLY FOR REMOVAL OF EXISTING WALL PANELS, REMOVAL OF EXISTING GUTTER SYSTEMS, AND OTHER WORK AS REQUIRED. PATCH MEMBRANE ROOF WITH LIKE MATERIALS AS REQUIRED.

1B METAL ROOFING BY WBM
SEE ROOF IDENTIFICATION: R1
PROVIDE & INSTALL (BY WBM) PRE-FINISHED METAL ROOF PANELS INCLUDING ALL ASSOCIATED TRIMS, MOUNTING HARDWARE, CLOSURE STRIPS, & OTHER ACCESSORIES. SEE ROOF ASSEMBLIES. SEE SPECIFICATIONS.
- **COLOR/FINISH: TO MATCH MWP-1** (SEE FINISH LEGEND)

2A METAL SIDING OVER EXISTING PEMB SUBSTRUCTURE
SEE WALL IDENTIFICATION: W1C
PROVIDE & INSTALL NEW PRE-FINISHED METAL PANEL SIDING SYSTEM INCLUDING ALL ASSOCIATED TRIMS, MOUNTING HARDWARE, CLOSURE STRIPS, & OTHER ACCESSORIES ON EXISTING PEMB STRUCTURE.
- **COLOR/FINISH: MWP-1** (SEE FINISH LEGEND & EXT ELEV)

2B METAL SIDING OVER NEW SUBSTRUCTURE
SEE WALL IDENTIFICATION: W1B, W2B, W2C
PROVIDE & INSTALL PRE-FINISHED METAL PANEL SIDING SYSTEM INCLUDING ALL ASSOCIATED TRIMS, MOUNTING HARDWARE, CLOSURE STRIPS, & OTHER ACCESSORIES OVER NEW METAL INFILL OR WOOD BUILDING SUBSTRUCTURE.
- **COLOR/FINISH: MWP-1** (SEE FINISH LEGEND & EXT ELEV)

2C NEW PAINT FINISH ON EXISTING METAL SIDING
SEE WALL IDENTIFICATION: W1C
PROVIDE & INSTALL NEW PAINT FINISH ON EXISTING METAL PANEL SIDING SYSTEM. RE-INSTALL SALVAGED SIDING MATERIALS FOR INFILL AREAS (SEE ELEVATIONS) AND TO REPLACE DAMAGED PANELS.
- **COLOR/FINISH: PT-MWP** (SEE FINISH LEGEND)

3A BRICK VENEER
SEE WALL IDENTIFICATION: W1A, W2A
PROVIDE & INSTALL BRICK VENEER SYSTEM INCLUDING ALL ASSOCIATED TIES, WEEPS, VENTS, FASTENERS, BACKUP WALL ASSEMBLY, & OTHER ACCESSORIES. SEE STRUCTURAL, ASSEMBLIES, SECTIONS, DETAILS FOR ADDITIONAL INFORMATION. SEE ENLARGED ELEVATIONS FOR BRICK ORNAMENTATION. COORDINATE BRICK INSTALLATION WITH EXTERIOR LIGHT FIXTURES AS REQUIRED.
- **COLOR/FINISH: BRK** (SEE FINISH LEGEND)

4A EXISTING WINDOW TO REMAIN
PROTECT THROUGHOUT DURATION OF DEMOLITION & CONSTRUCTION. PROVIDE & INSTALL NEW TRIMS & FLASHINGS WITH NEW METAL PANEL SIDING.

4B ALUMINUM-FRAMED STOREFRONT SYSTEM
PROVIDE & INSTALL NEW ALUMINUM-FRAMED STOREFRONT SYSTEM. SEE OPENING ELEVATIONS FOR ADDITIONAL DETAILS. SEE SPECIFICATIONS.

4C INTEGRATED ALUMINUM SUN SHADES
PROVIDE & INSTALL NEW ALUMINUM SUN SHADE INTEGRAL TO ALUMINUM STOREFRONT SYSTEM.

5A METAL VENTED ROOF RIDGE
PROVIDE & INSTALL (BY WBM) NEW PRE-FINISHED METAL VENTED ROOF RIDGE. SEE DETAILS & SPECIFICATIONS.
- **COLOR/FINISH: MATCH METAL ROOFING**

5B METAL VENTED FASCIA
PROVIDE & INSTALL (BY WBM) NEW PRE-FINISHED METAL FASCIA TRIM WITH VENTING. SEE DETAILS & SPECIFICATIONS.
- **COLOR/FINISH: PFIN-1** (SEE FINISH LEGEND)

5C METAL FASCIA
PROVIDE & INSTALL (BY WBM) PRE-FINISHED METAL FASCIA SYSTEM INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CLEATS & OTHER ACCESSORIES.
SEE EXTERIOR ELEVATIONS. SEE SPECIFICATIONS.
- **COLOR/FINISH: PFIN-1** (SEE FINISH LEGEND)

5D METAL DOWNSPOUT & GUTTER
PROVIDE & INSTALL (BY WBM) PREFINISHED METAL, GUTTER, & DOWNSPOUT (D.S.) SYSTEM INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, FLASHINGS & OTHER ACCESSORIES. SEE EXTERIOR ELEVATIONS & SPECIFICATIONS. SEE CIVIL. SEE ROOF PLAN FOR DOWNSPOUT LOCATIONS.
- **COLOR/FINISH: PFIN-2** (SEE FINISH LEGEND)

5E BUILDING ADDRESS SIGNAGE
PROVIDE & INSTALL BUILDING ADDRESS SIGNAGE INCLUDING ALL ASSOCIATED HARDWARE, BLOCKING, & OTHER ACCESSORIES. PROVIDE LETTERS OF MINIMUM HEIGHT ALLOWED BY AHJ. VERIFY SIGNAGE COMPLIANCE WITH AHJ. SEE SPECIFICATIONS.

5F BUILDING SIGNAGE (BY OWNER)
SHOWN FOR GENERAL LAYOUT/COORDINATION PURPOSES ONLY. SEE ELECTRICAL. COORDINATE WITH OWNER AS REQUIRED.

5G PRE-MANUFACTURED ALUMINUM CANOPY
PROVIDE & INSTALL PRE-MANUFACTURERED ALUMINUM CANOPY & ALL ASSOCIATED TRIMS, ANGLES, TIE-BACKS, & OTHER ACCESSORIES. SEE SECTIONS & DETAILS. SEE SPECIFICATIONS. SEE STRUCTURAL.

6A MECHANICAL FIXTURE/EQUIPMENT
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDUIT, MOUNTING HARDWARE & OTHER ACCESSORIES. SEE MECHANICAL. INSTALL TRIM & ACCESSORIES RELATED TO WALL/ROOF ASSEMBLIES PER MANUFACTURER REQUIREMENTS.

6B DUCT OR PIPE PENETRATION
PROVIDE & INSTALL W/ BOOT FLASHING OR VENT CAP COMPATIBLE WITH PEMB ROOF OR WALL ASSEMBLY. PROVIDE FINISH/COLOR TO MATCH ADJACENT PANEL FINISH OR PAINT TO MATCH ADJACENT PANEL FINISH.

7A PLUMBING FIXTURE/EQUIPMENT
PROVIDE & INSTALL PLUMBING FIXTURE/EQUIPMENT INCLUDING ALL ASSOCIATED PIPING, MOUNTING HARDWARE, AND OTHER ACCESSORIES. SEE PLUMBING.

8A ELECTRICAL FIXTURE/EQUIPMENT
PROVIDE & INSTALL ELECTRICAL FIXTURE/EQUIPMENT INCLUDING ALL ASSOCIATED CONDUIT, MOUNTING HARDWARE, & OTHER ACCESSORIES. MOUNT FIXTURES AT ELEVATIONS/ALIGNMENTS AS INDICATED IN CONSTRUCTION DOCUMENTS. SEE ELECTRICAL.

9A PIPE BOLLARD
PROVIDE & INSTALL CONCRETE-FILLED STEEL TRAFFIC BOLLARDS INCLUDING ALL ASSOCIATED FOOTINGS & ACCESSORIES. SEE CIVIL. BOLLARDS ARE TO BE GALVANIZED AND PAINTED. SEE SPECIFICATIONS
- **COLOR/FINISH: PT-BOL** (SEE FINISH LEGEND)

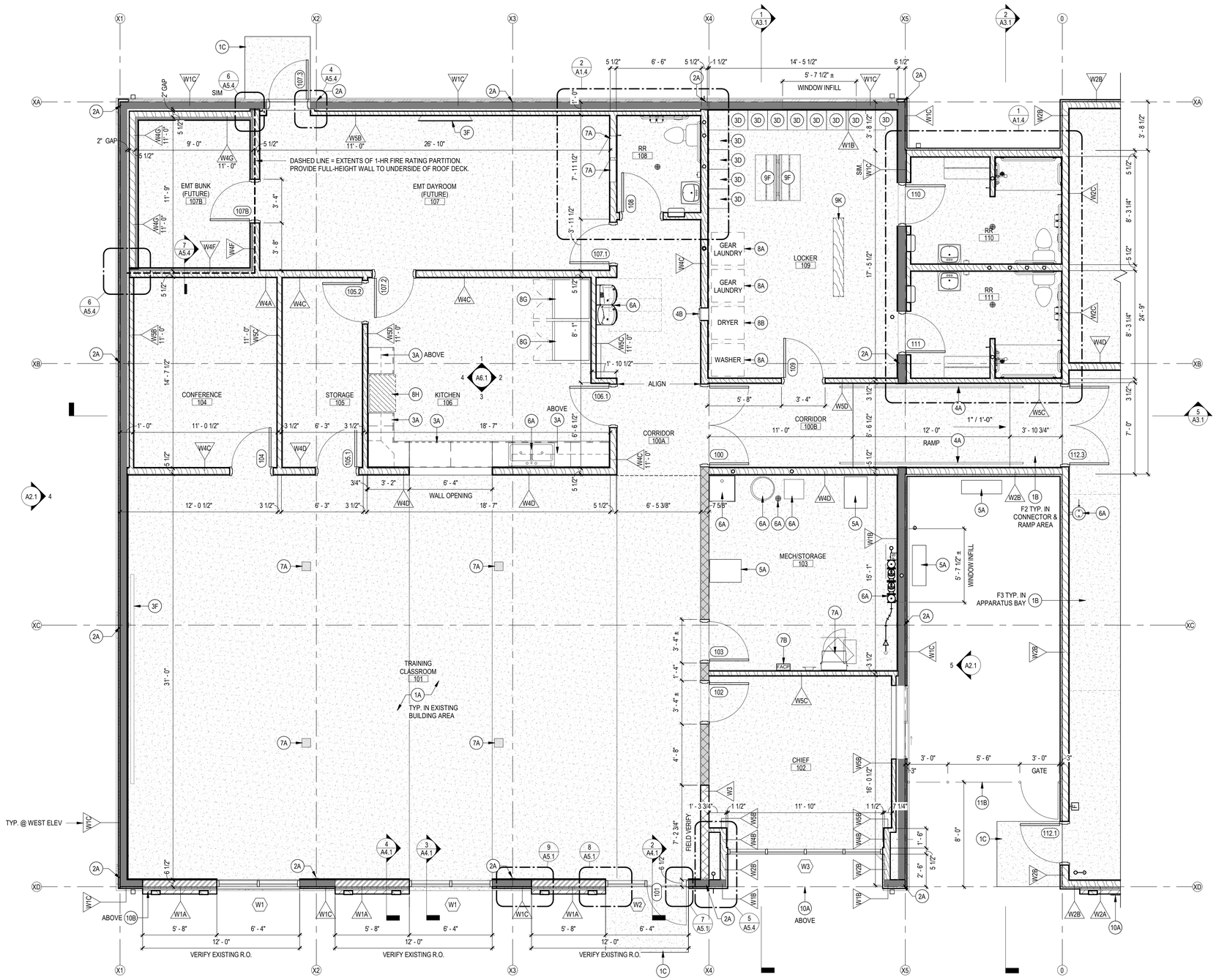
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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: ROOF PLAN

A1.2



1 **ENLARGED FLOOR PLAN**
1/4" = 1'-0"

LEGEND - EQUIPMENT BY OWNER (8X)

PROVIDE & INSTALL ALL ASSOCIATED UTILITY SCOPE AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED, OWNER INSTALLED ITEMS AS INDICATED BELOW:

KEY	ITEM
8A	LAUNDRY MACHINE
8B	DRYER
8C	OXYGEN TANK FILL
8D	GEAR DRYING CABINET
8E	AIR COMPRESSOR (& ASSOC. PIPING, HOSE REELS)
8F	KITCHEN SINK
8G	REFRIGERATOR W/ ICE MAKER
8H	RESIDENTIAL ELECTRIC RANGE

SEE MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS. COORDINATE WITH OWNER AS REQUIRED.

LEGEND - RESTROOM ACCESSORIES (9X)

KEY	RESP.	ITEM
9A	CFCI	GRAB BAR (STAINLESS STEEL)
9B	CFCI	PAPER TOWEL DISPENSER & TRASH COMBO
9C	CFCI	TOILET PAPER DISPENSER
9D	CFCI	SOAP DISPENSER
9E	CFCI	MIRROR, STAINLESS STEEL FRAME, 24" X 48" W/ SHELF @ RR 110 & RR 111
9F	CFCI	CHANGING BENCH
9G	CFCI	COAT/TOWEL HOOK
9H	CFCI	ACCESSIBLE SHOWER ACCESSORIES
9J	CFCI	FEMININE HYGIENE DISPOSAL
9K	CFOI	LOCKER ROOM BENCH

RESPONSIBILITY (RESP.):
CFCI = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI = CONTRACTOR FURNISHED, OWNER INSTALLED

SEE TYPICAL MOUNTING HEIGHTS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. SEE SPECIFICATIONS. FIELD VERIFY CONDITIONS OF ALL EXISTING MATERIALS.

GENERAL NOTES - FLOOR PLANS:

- SEE A1.1 FOR FLOOR PLAN GENERAL NOTES.

KEYED NOTE LEGEND - FLOOR PLANS (#X)

1A REINFORCED CONCRETE SLAB-ON-GRADE TOPPING SLAB
SEE FLOOR IDENTIFICATION: F1
PROVIDE & INSTALL NEW CONCRETE TOPPING SLAB OVER EXISTING SLAB-ON-GRADE. SEE ASSEMBLIES. SEE STRUCTURAL. SEE FINISH PLAN & SCHEDULE FOR CONTROL JOINT (C.J.) LOCATIONS & FLOOR COVERINGS/FINISH.

1B REINFORCED CONCRETE SLAB-ON-GRADE
SEE FLOOR IDENTIFICATION: F2, F3
PROVIDE & INSTALL NEW CONCRETE SLAB-ON-GRADE. SEE ASSEMBLIES. SEE STRUCTURAL. SEE FINISH PLAN & SCHEDULE FOR CONTROL JOINT (C.J.) LOCATIONS & FLOOR COVERINGS/FINISH.

1C REINFORCED CONCRETE STOOP
PROVIDE & INSTALL REINFORCED CONCRETE STOOP, FIBER EXPANSION JOINTS, VOID FORMS & OTHER ASSOCIATED ACCESSORIES. SEE DETAILS & STRUCTURAL.

2A EXISTING STEEL STRUCTURE TO REMAIN
PROTECT THROUGHOUT THE DURATION OF THE PROJECT. REFINISH EXISTING PEMB MEMBERS ALONG GRID LINE #XD

3A KITCHEN CASEWORK (BY OWNER)
PROVIDE & INSTALL ALL ASSOCIATED IN-WALL BLOCKING & OTHER PREPARATORY SCOPE AS REQUIRED FOR OWNER FURNISHED, OWNER INSTALLED KITCHEN CASEWORK. SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR PROPOSED KITCHEN CABINET LAYOUTS.

3B WORKBENCH (BY OWNER)
PROVIDE & INSTALL ALL ASSOCIATED IN-WALL BLOCKING & OTHER PREPARATORY SCOPE AS REQUIRED FOR OWNER FURNISHED, OWNER INSTALLED WORKBENCH. SEE ELECTRICAL FOR POWER REQUIREMENTS.

3D DOUBLE-TIER WARDROBE (BY OWNER)
SHOWN FOR GENERAL LAYOUT / COORDINATION ONLY.

3E EQUIPMENT LOCKERS (BY OWNER)
SHOWN FOR GENERAL LAYOUT / COORDINATION ONLY.

3F WALL-MOUNT TELEVISION (BY OWNER)
PROVIDE & INSTALL ALL ASSOCIATED ELECTRICAL SCOPE, IN-WALL BLOCKING, AND OTHER ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED, OWNER INSTALLED TELEVISION & VESA MOUNT. COORDINATE W/ OWNER FOR MOUNTING HEIGHT PRIOR TO INSTALLATION.

4A HANDRAILS @ RAMP
PROVIDE & INSTALL STEEL HANDRAILS AT RAMP. SEE WALL SECTION @ RAMP FOR DETAILS.
- **COLOR/FINISH: PT-2** (SEE FINISH LEGEND)

4B RECESSED F.E.C.
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, BLOCKING, CABINET, FIRE EXTINGUISHER, MOUNTING & OTHER ACCESSORIES. SEE TYPICAL MOUNTING HEIGHTS & SPECIFICATIONS.

5A MECHANICAL EQUIPMENT
PROVIDE & INSTALL NEW MECHANICAL EQUIPMENT INCLUDING ALL ASSOCIATED DUCTWORK, CONDUIT, PIPING, HOUSEKEEPING/EXTERIOR CONCRETE PADS, & ALL OTHER ACCESSORIES AS REQUIRED. SEE MECHANICAL.

6A PLUMBING FIXTURE/EQUIPMENT
PROVIDE & INSTALL NEW PLUMBING FIXTURE/EQUIPMENT AS SHOWN. PROVIDE ALL ASSOCIATED PIPING, HANGERS, & OTHER ACCESSORIES AS REQUIRED. SEE PLUMBING. SEE TYPICAL MOUNTING HEIGHTS.

7A ELECTRICAL EQUIPMENT
PROVIDE & INSTALL NEW ELECTRICAL EQUIPMENT INCLUDING ALL ASSOCIATED CONDUIT, CONDUCTORS, & OTHER ACCESSORIES. SEE ELECTRICAL.

7B FIRE ALARM CONTROL PANEL
PROVIDE & INSTALL FIRE ALARM CONTROL PANEL INCLUDING ALL ASSOCIATED ACCESSORIES. SEE ELECTRICAL. SEE FIRE PROTECTION.

8# EQUIPMENT BY OWNER
SEE EQUIPMENT BY OWNER LEGEND.

9# RESTROOM ACCESSORIES
SEE RESTROOM ACCESSORIES LEGEND.

10A BUILDING SIGNAGE (BY OWNER)
SHOWN FOR GENERAL LAYOUT / COORDINATION ONLY. SEE EXTERIOR ELEVATIONS.

10B BUILDING ADDRESS SIGNAGE
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, BLOCKING & OTHER ACCESSORIES. 8" HEIGHT, 1/2" STROKE, ARIAL FONT.
SEE EXTERIOR ELEVATIONS & SPECIFICATIONS.

11A PIPE BOLLARD
PROVIDE & INSTALL CONCRETE-FILLED STEEL TRAFFIC BOLLARDS INCLUDING ALL ASSOCIATED FOOTINGS & ACCESSORIES. SEE CIVIL. BOLLARDS ARE TO BE GALVANIZED AND PAINTED. SEE SPECIFICATIONS SEE STRUCTURAL.
- **COLOR/FINISH: PT-BOL** (SEE FINISH LEGEND)

11B CHAIN LINK FENCE & GATE W/ PRIVACY SLATS
PROVIDE & INSTALL NEW GALVANIZED CHAIN-LINK FENCE, FENCE GATE, AND ALL ASSOCIATED CONCRETE POST FOOTINGS, SUPPORTS, FASTENERS, AND ACCESSORIES PER MANUFACTURER INSTRUCTIONS. PROVIDE PRIVACY SLATS AT ALL FENCE SECTIONS. SEE SPECIFICATIONS.

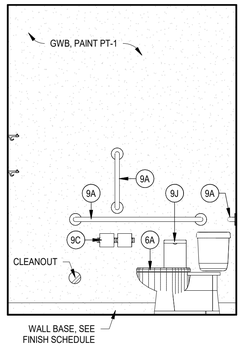
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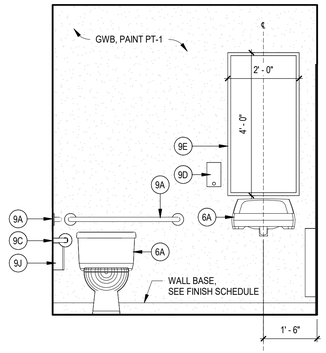
PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: ENLARGED FLOOR PLAN

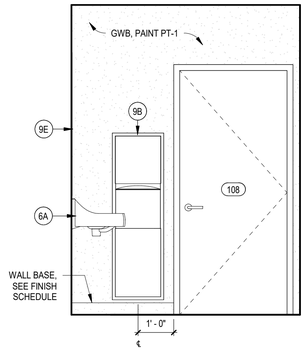
A1.3



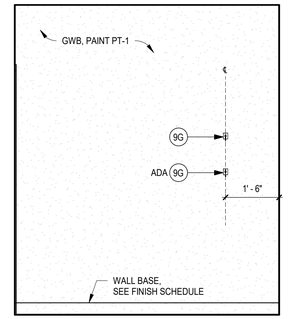
2A **INTERIOR ELEVATION - RR 108 - N**
1/2" = 1'-0"



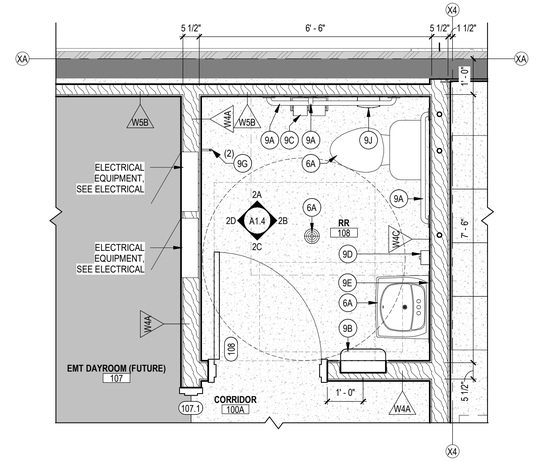
2B **INTERIOR ELEVATION - RR 108 - E**
1/2" = 1'-0"



2C **INTERIOR ELEVATION - RR 108 - S**
1/2" = 1'-0"



2D **INTERIOR ELEVATION - RR 108 - W**
1/2" = 1'-0"



2 **ENLARGED FLOOR PLAN - RESTROOM 108**
1/2" = 1'-0"

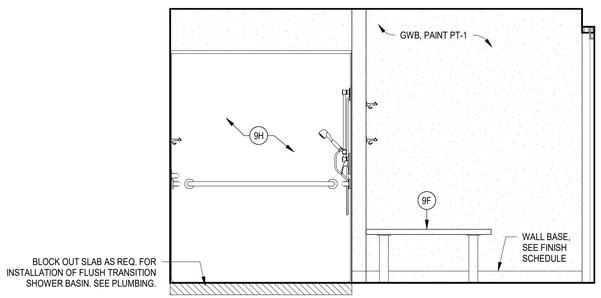
LEGEND - RESTROOM ACCESSORIES			9X
KEY	RESP.	ITEM	
9A	CFCI	GRAB BAR (STAINLESS STEEL)	
9B	CFCI	PAPER TOWEL DISPENSER & TRASH COMBO	
9C	CFCI	TOILET PAPER DISPENSER	
9D	CFCI	SOAP DISPENSER	
9E	CFCI	MIRROR, STAINLESS STEEL FRAME, 24" X 48" W/ SHELF @ RR 110 & RR 111	
9F	CFCI	CHANGING BENCH	
9G	CFCI	COAT/TOWEL HOOK	
9H	CFCI	ACCESSIBLE SHOWER ACCESSORIES	
9J	CFCI	FEMININE HYGIENE DISPOSAL	
9K	CFOI	LOCKER ROOM BENCH	

RESPONSIBILITY (RESP.):
CFCI = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI = CONTRACTOR FURNISHED, OWNER INSTALLED

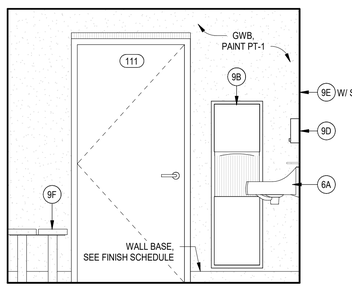
SEE TYPICAL MOUNTING HEIGHTS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. SEE SPECIFICATIONS.
FIELD VERIFY CONDITIONS OF ALL EXISTING MATERIALS.

GENERAL NOTES - FLOOR PLANS:

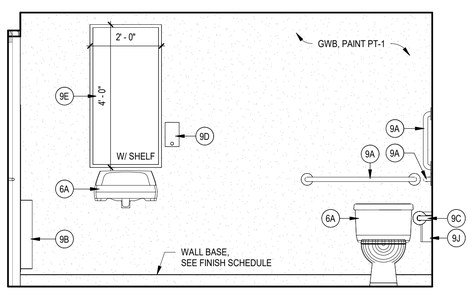
- SEE A1.1 FOR FLOOR PLAN GENERAL NOTES.



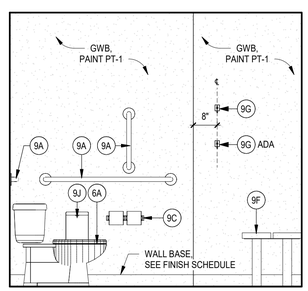
1A **INTERIOR ELEVATION - RR 110/111 - SHOWER WALL**
1/2" = 1'-0"



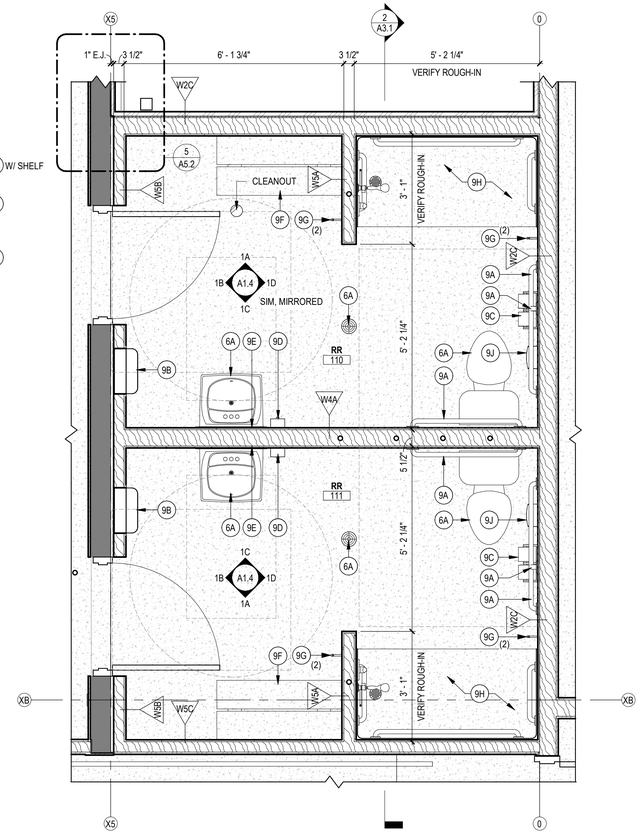
1B **INTERIOR ELEVATION - RR 110/111 - W**
1/2" = 1'-0"



1C **INTERIOR ELEVATION - RR 110/111- LAV & WC WALL**
1/2" = 1'-0"



1D **INTERIOR ELEVATION - RR 110/111 - E**
1/2" = 1'-0"



1 **ENLARGED FLOOR PLAN - RESTROOMS @ CONNECTOR**
1/2" = 1'-0"

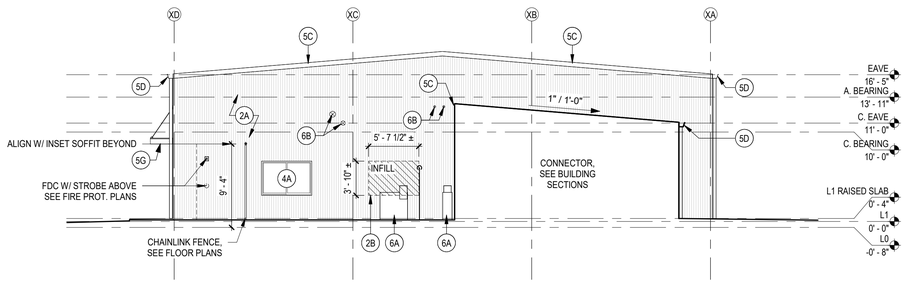
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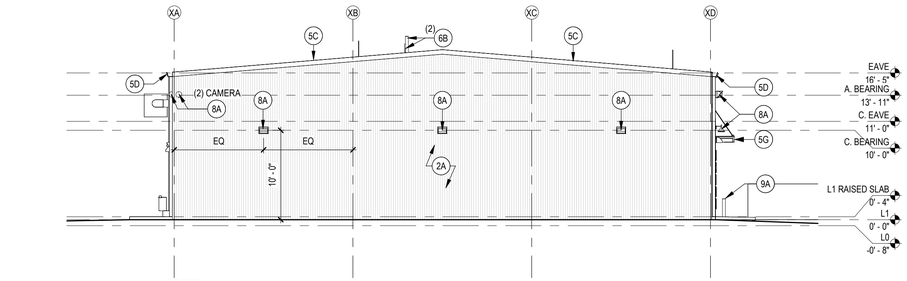
PROJECT: SCFD - RENOVATION & ADDITION
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CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
SHEET NAME: RESTROOM PLANS & ELEVATIONS
PHASE: CD

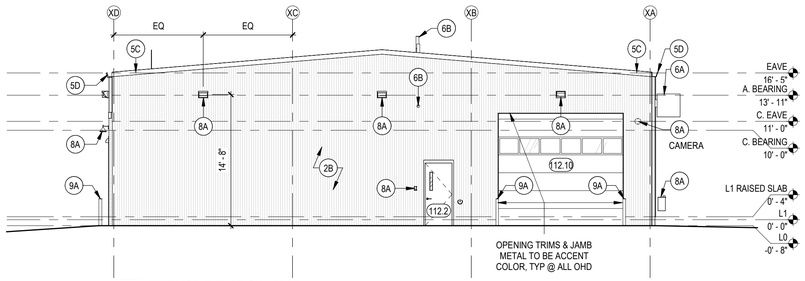
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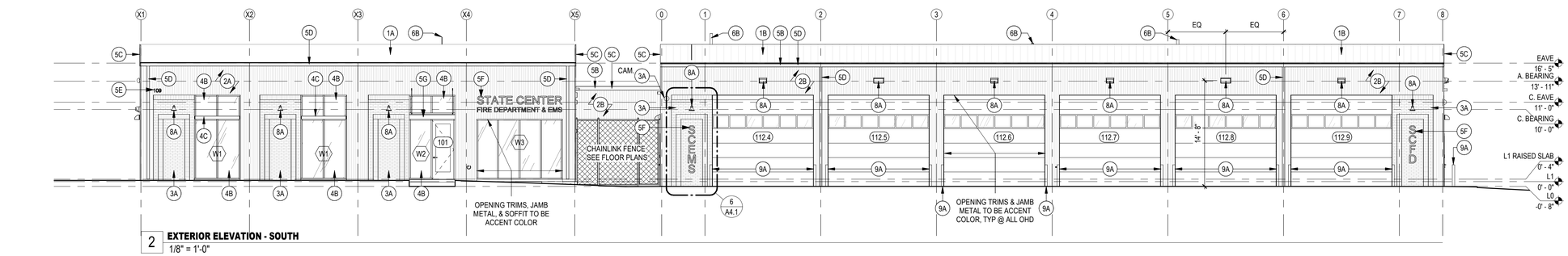
5 **EXTERIOR ELEVATION - EAST @ CONNECTOR**
1/8" = 1'-0"



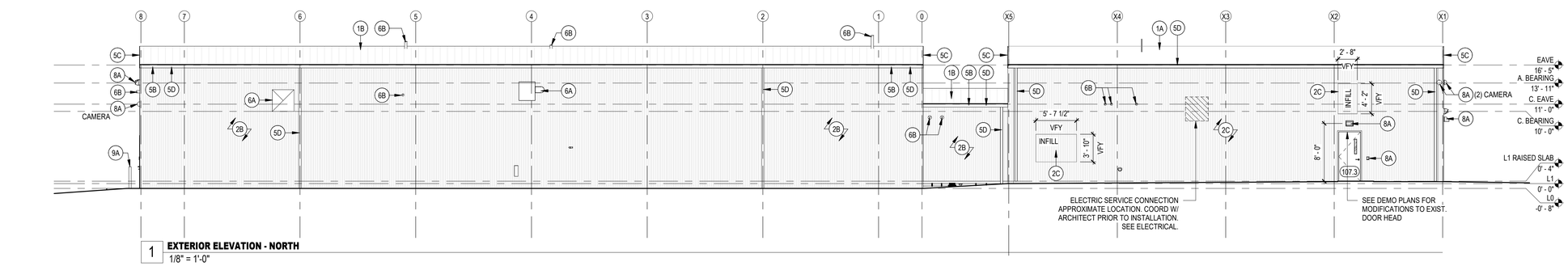
4 **EXTERIOR ELEVATION - WEST**
1/8" = 1'-0"



3 **EXTERIOR ELEVATION - EAST**
1/8" = 1'-0"



2 **EXTERIOR ELEVATION - SOUTH**
1/8" = 1'-0"



1 **EXTERIOR ELEVATION - NORTH**
1/8" = 1'-0"

GENERAL NOTES - EXTERIOR ELEVATIONS:

- DIMENSIONS SHOWN ARE BASED ON ACTUAL WALL THICKNESS TO CORRESPOND WITH THE OVERALL FLOOR PLANS. SEE WALL TYPES AND DETAILS FOR ADDITIONAL INFORMATION.
- DIMENSIONS AT WINDOWS AND DOORS IN MASONRY & PEMB ASSEMBLIES ARE SHOWN AS ROUGH OPENING DIMENSIONS. CONTRACTOR SHALL COORDINATE ACTUAL ROUGH OPENINGS WITH THE DOOR, WINDOW, AND PEMB MANUFACTURER'S REQUIREMENTS PRIOR TO ORDER & INSTALLATION.
- CONTRACTOR SHALL PROVIDE BACKER RODS & SEALANT AROUND THE PERIMETER OF ALL PENETRATIONS AND OPENINGS, TYPICAL. WEEPS SHALL BE KEPT CLEAR OF SEALANT, ADHESIVES AND/OR ANY OTHER CONSTRUCTION DEBRIS. COLOR OF VISIBLE SEALANTS SHALL BE SELECTED BY ARCHITECT.
- AT MASONRY VENEER WALLS, THE FINISHED FACE SHALL WRAP ALL CORNERS AND BE PROVIDED ON ALL VISIBLE FACES OF PILASTERS, INSETS, OPENINGS, AND RETURNS. NO UNFINISHED FACES OR HOLLOW CELLS SHALL BE EXPOSED TO VIEW.
- CONTRACTOR SHALL PROVIDE VERTICAL CONTROL JOINTS AT 36'-0" O.C. (MAXIMUM) IN MASONRY WALLS OVER 24'-0" IN LENGTH AT BOTH SIDES OF ALL DOOR, WINDOW, DUCT, AND OTHER OPENINGS LARGER THAN 4 SQUARE FEET. SEE LOCATIONS INDICATED ON THE EXTERIOR ELEVATIONS AS C.J. COORDINATE EXACT LOCATION W/ ARCHITECT.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY WOOD BLOCKING AND NAILERS WHERE REQUIRED TO SECURELY ATTACH ACCESSORIES, DEVICES, FIXTURES, AND EQUIPMENT TO WALLS, CEILINGS, OR FLOOR SURFACES. CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL GROUTING OF MASONRY CELLS AS REQUIRED TO SECURELY ATTACH ACCESSORIES, DEVICES, FIXTURES, EQUIPMENT, AND MILLWORK TO MASONRY WALLS.
- ALL HORIZONTAL MASONRY REINFORCING, INSULATION, THRU-WALL FLASHING, AND WEATHER BARRIERS SHALL BE DISCONTINUOUS ACROSS ALL VERTICAL CONTROL JOINTS. PROVIDE BACKERS RODS & SEALANT AT EXTERIOR FACES.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE AND INSTALL A RECESSED, KEYED FIRE DEPARTMENT ACCESS KNOX BOX, NEAR THE FRONT OR REAR ENTRY DOORS. PROPOSED LOCATION SHOWN ON ELEVATIONS, HOWEVER, FINAL LOCATION TO BE CONFIRMED BY THE AUTHORITY HAVING JURSDICTION.
- THE PRE-ENGINEERED METAL BUILDING, STRUCTURAL MAIN FRAMES, END WALLS FRAMES, GIRTS, PURLINS, METAL SIDING PANELS, METAL ROOFING, OVERHANGS, METAL SOFFITS, FASCIAS, GUTTERS, DOWNSPOUTS, INSULATION, EXTRUDED METAL SIDING TRIMS AT OPENINGS, CLIPS, ANGLES, FASTENERS, ATTACHMENTS AND ALL OTHER RELATED ACCESSORIES ARE PROVIDED BY THE INDEPENDENT METAL BUILDING CONTRACTOR AND ARE THE SOLE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER AND INSTALLATION CONTRACTOR.
- ALL EXTERIOR CONCRETE STOOPS TO SLOPE 1/4" PER FOOT MAXIMUM AND 1/8" PER FOOT MINIMUM AWAY FROM THE BUILDING.
- MECHANICAL PIPES, PLUMBING VENTS, EXHAUST FANS, LOUVERS, REGISTERS AND ALL OTHER PENETRATIONS SHALL NOT PASS THROUGH EXTERIOR WALLS OR ROOF UNLESS SHOWN ON THESE ELEVATIONS OR DISCUSSED WITH THE OWNER & ARCHITECT PRIOR TO INSTALLATION. SEE FLOOR PLANS. SEE ROOF PLANS.
- CONTRACTOR SHALL ELIMINATE THE RISK OF GALVANIC CORROSION BY PROVIDING ADDITIONAL COMPOSITE SHIMS, RUBBER STRIPS, GASKETS, AND/OR OTHER GAP-FILLING MATERIALS, AS REQUIRED, AT ALL LOCATIONS WHERE DISSIMILAR MATERIALS AND METALS (INCLUDING BUT NOT LIMITED TO THE EXTERIOR FINISH/CLADDING MATERIALS) ARE SHOWN TO BE FASTENED TOGETHER OR DIRECTLY ADJACENT TO EACH OTHER.
- DOWNSPOUTS TO BE LOCATED AS SHOWN ON THE CONSTRUCTION DRAWINGS. PRE-ENGINEERED METAL BUILDING SUPPLIER TO DETERMINE FINAL SIZING OF ALL GUTTERS AND DOWNSPOUTS PER APPLICABLE REQUIREMENTS.
- PROVIDE EXTERIOR SIGNAGE & ATTACHMENTS PER REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL COORDINATE SIZE, LOCATION AND QUANTITY OF BUILDING & MONUMENT SIGNS, UNDER A SEPARATE SET OF PERMIT DOCUMENTS.
- THE PRE-ENGINEERED WOOD BUILDING,WOOD COLUMNS, WOOD TRUSSES, END WALLS FRAMES, LADDER FRAMES, PURLINS, METAL SIDING PANELS, METAL ROOFING, METAL LINER PANEL, FASCIAS, GUTTERS, DOWNSPOUTS, INSULATION, EXTRUDED METAL SIDING TRIMS AT OPENINGS, CLIPS, ANGLES, FASTENERS, ATTACHMENTS AND ALL OTHER RELATED ACCESSORIES ARE PROVIDED BY THE INDEPENDENT WOOD BUILDING CONTRACTOR AND ARE THE SOLE RESPONSIBILITY OF THE WOOD BUILDING MANUFACTURER AND INSTALLATION CONTRACTOR.

KEYED NOTE LEGEND - ROOF PLAN & ELEV. (#X)

1A EXISTING MEMBRANE ROOF TO REMAIN
MEMBRANE ROOF @ EXISTING BUILDING TO REMAIN THROUGHOUT DEMOLITION & CONSTRUCTION. MODIFY ROOF ASSEMBLY FOR REMOVAL OF EXISTING WALL PANELS, REMOVAL OF EXISTING GUTTER SYSTEMS, AND OTHER WORK AS REQUIRED. PATCH MEMBRANE ROOF WITH LIKE MATERIALS AS REQUIRED.

1B METAL ROOFING BY WBM
SEE ROOF IDENTIFICATION: R1
PROVIDE & INSTALL (BY WBM) PRE-FINISHED METAL ROOF PANELS INCLUDING ALL ASSOCIATED TRIMS, MOUNTING HARDWARE, CLOSURE STRIPS, & OTHER ACCESSORIES. SEE ROOF ASSEMBLIES. SEE SPECIFICATIONS.
- **COLOR/FINISH: TO MATCH MWP-1** (SEE FINISH LEGEND)

2A METAL SIDING OVER EXISTING PEMB SUBSTRUCTURE
SEE WALL IDENTIFICATION: W1C
PROVIDE & INSTALL NEW PRE-FINISHED METAL PANEL SIDING SYSTEM INCLUDING ALL ASSOCIATED TRIMS, MOUNTING HARDWARE, CLOSURE STRIPS, & OTHER ACCESSORIES ON EXISTING PEMB STRUCTURE.
- **COLOR/FINISH: MWP-1** (SEE FINISH LEGEND & EXT ELEV)

2B METAL SIDING OVER NEW SUBSTRUCTURE
SEE WALL IDENTIFICATION: W1B, W2B, W2C
PROVIDE & INSTALL PRE-FINISHED METAL PANEL SIDING SYSTEM INCLUDING ALL ASSOCIATED TRIMS, MOUNTING HARDWARE, CLOSURE STRIPS, & OTHER ACCESSORIES OVER NEW METAL INFILL OR WOOD BUILDING SUBSTRUCTURE.
- **COLOR/FINISH: MWP-1** (SEE FINISH LEGEND & EXT ELEV)

2C NEW PAINT FINISH ON EXISTING METAL SIDING
SEE WALL IDENTIFICATION: W1C
PROVIDE & INSTALL NEW PAINT FINISH ON EXISTING METAL PANEL SIDING SYSTEM. RE-INSTALL SALVAGED SIDING MATERIALS FOR INFILL AREAS (SEE ELEVATIONS) AND TO REPLACE DAMAGED PANELS.
- **COLOR/FINISH: PT-MWP** (SEE FINISH LEGEND)

3A BRICK VENEER
SEE WALL IDENTIFICATION: W1A, W2A
PROVIDE & INSTALL BRICK VENEER SYSTEM INCLUDING ALL ASSOCIATED TIES, WEEPS, VENTS, FASTENERS, BACKUP WALL ASSEMBLY, & OTHER ACCESSORIES. SEE STRUCTURAL, ASSEMBLIES, SECTIONS, DETAILS FOR ADDITIONAL INFORMATION. SEE ENLARGED ELEVATIONS FOR BRICK ORNAMENTATION. COORDINATE BRICK INSTALLATION WITH EXTERIOR LIGHT FIXTURES AS REQUIRED.
- **COLOR/FINISH: BRK** (SEE FINISH LEGEND)

4A EXISTING WINDOW TO REMAIN
PROTECT THROUGHOUT DURATION OF DEMOLITION & CONSTRUCTION. PROVIDE & INSTALL NEW TRIMS & FLASHINGS WITH NEW METAL PANEL SIDING.

4B ALUMINUM-FRAMED STOREFRONT SYSTEM
PROVIDE & INSTALL NEW ALUMINUM-FRAMED STOREFRONT SYSTEM. SEE OPENING ELEVATIONS FOR ADDITIONAL DETAILS. SEE SPECIFICATIONS.

4C INTEGRATED ALUMINUM SUN SHADES
PROVIDE & INSTALL NEW ALUMINUM SUN SHADE INTEGRAL TO ALUMINUM STOREFRONT SYSTEM.

5A METAL VENTED ROOF RIDGE
PROVIDE & INSTALL (BY WBM) NEW PRE-FINISHED METAL VENTED ROOF RIDGE. SEE DETAILS & SPECIFICATIONS.
- **COLOR/FINISH: MATCH METAL ROOFING**

5B METAL VENTED FASCIA
PROVIDE & INSTALL (BY WBM) NEW PRE-FINISHED METAL FASCIA TRIM WITH VENTING. SEE DETAILS & SPECIFICATIONS.
- **COLOR/FINISH: PFIN-1** (SEE FINISH LEGEND)

5C METAL FASCIA
PROVIDE & INSTALL (BY WBM) PRE-FINISHED METAL FASCIA SYSTEM INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CLEATS & OTHER ACCESSORIES.
SEE EXTERIOR ELEVATIONS. SEE SPECIFICATIONS.
- **COLOR/FINISH: PFIN-1** (SEE FINISH LEGEND)

5D METAL DOWNSPOUT & GUTTER
PROVIDE & INSTALL (BY WBM) PREFINISHED METAL, GUTTER, & DOWNSPOUT (D.S.) SYSTEM INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, FLASHINGS & OTHER ACCESSORIES. SEE EXTERIOR ELEVATIONS & SPECIFICATIONS. SEE CIVIL. SEE ROOF PLAN FOR DOWNSPOUT LOCATIONS.
- **COLOR/FINISH: PFIN-2** (SEE FINISH LEGEND)

5E BUILDING ADDRESS SIGNAGE
PROVIDE & INSTALL BUILDING ADDRESS SIGNAGE INCLUDING ALL ASSOCIATED HARDWARE, BLOCKING, & OTHER ACCESSORIES. PROVIDE LETTERS OF MINIMUM HEIGHT ALLOWED BY AHJ. VERIFY SIGNAGE COMPLIANCE WITH AHJ. SEE SPECIFICATIONS.

5F BUILDING SIGNAGE (BY OWNER)
SHOWN FOR GENERAL LAYOUT/COORDINATION PURPOSES ONLY. SEE ELECTRICAL. COORDINATE WITH OWNER AS REQUIRED.

5G PRE-MANUFACTURED ALUMINUM CANOPY
PROVIDE & INSTALL PRE-MANUFACTURERED ALUMINUM CANOPY & ALL ASSOCIATED TRIMS, ANGLES, TIE-BACKS, & OTHER ACCESSORIES. SEE SECTIONS & DETAILS. SEE SPECIFICATIONS. SEE STRUCTURAL.

6A MECHANICAL FIXTURE/EQUIPMENT
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDUIT, MOUNTING HARDWARE & OTHER ACCESSORIES. SEE MECHANICAL. INSTALL TRIM & ACCESSORIES RELATED TO WALL/ROOF ASSEMBLIES PER MANUFACTURER REQUIREMENTS.

6B DUCT OR PIPE PENETRATION
PROVIDE & INSTALL W/ BOOT FLASHING OR VENT CAP COMPATIBLE WITH PEMB ROOF OR WALL ASSEMBLY. PROVIDE FINISH/COLOR TO MATCH ADJACENT PANEL FINISH OR PAINT TO MATCH ADJACENT PANEL FINISH.

7A PLUMBING FIXTURE/EQUIPMENT
PROVIDE & INSTALL PLUMBING FIXTURE/EQUIPMENT INCLUDING ALL ASSOCIATED PIPING, MOUNTING HARDWARE, AND OTHER ACCESSORIES. SEE PLUMBING.

8A ELECTRICAL FIXTURE/EQUIPMENT
PROVIDE & INSTALL ELECTRICAL FIXTURE/EQUIPMENT INCLUDING ALL ASSOCIATED CONDUIT, MOUNTING HARDWARE, & OTHER ACCESSORIES. MOUNT FIXTURES AT ELEVATIONS/ALIGNMENTS AS INDICATED IN CONSTRUCTION DOCUMENTS. SEE ELECTRICAL.

9A PIPE BOLLARD
PROVIDE & INSTALL CONCRETE-FILLED STEEL TRAFFIC BOLLARDS INCLUDING ALL ASSOCIATED FOOTINGS & ACCESSORIES. SEE CIVIL. BOLLARDS ARE TO BE GALVANIZED AND PAINTED. SEE SPECIFICATIONS
- **COLOR/FINISH: PT-BOL** (SEE FINISH LEGEND)

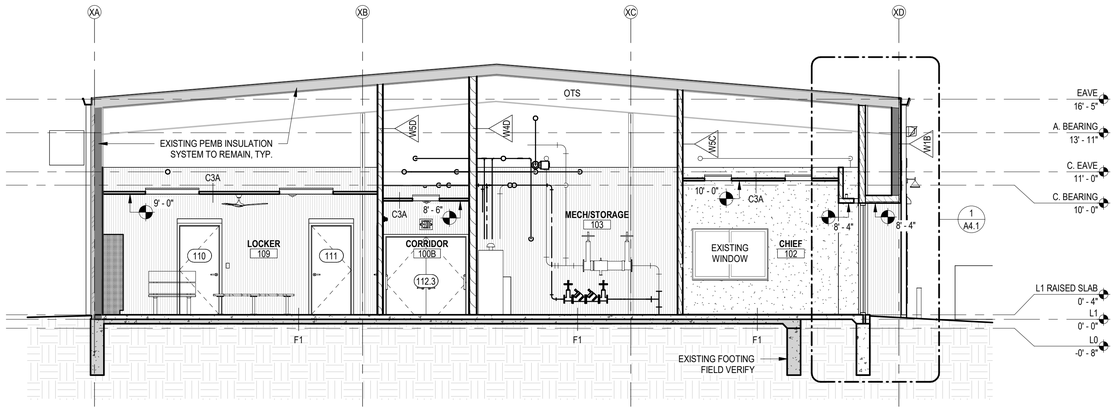
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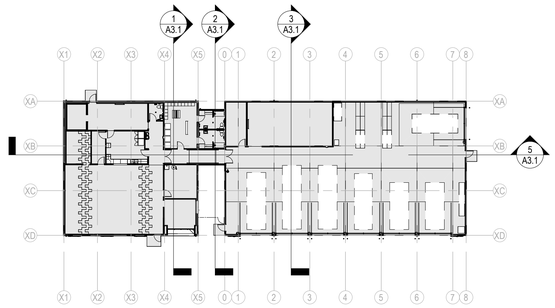
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ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PHASE: CD
PRINT DATE: 2025-12-18
SHEET NAME: EXTERIOR ELEVATIONS

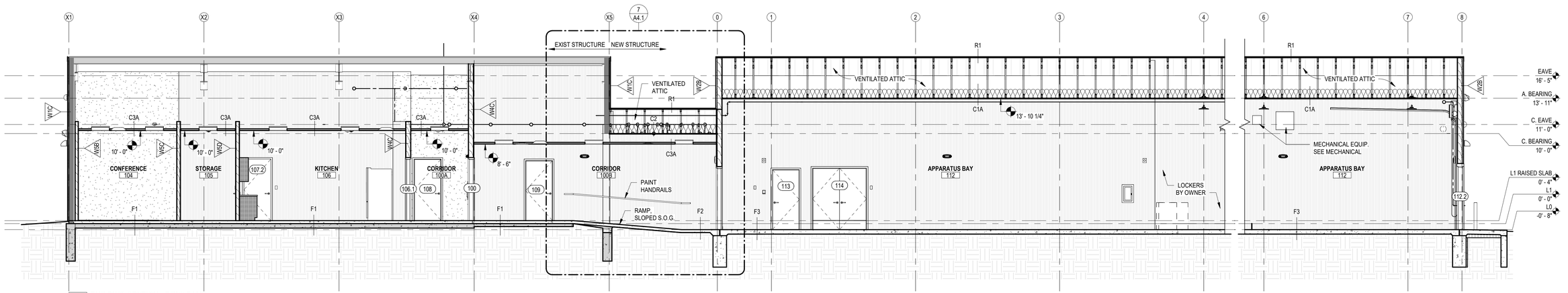
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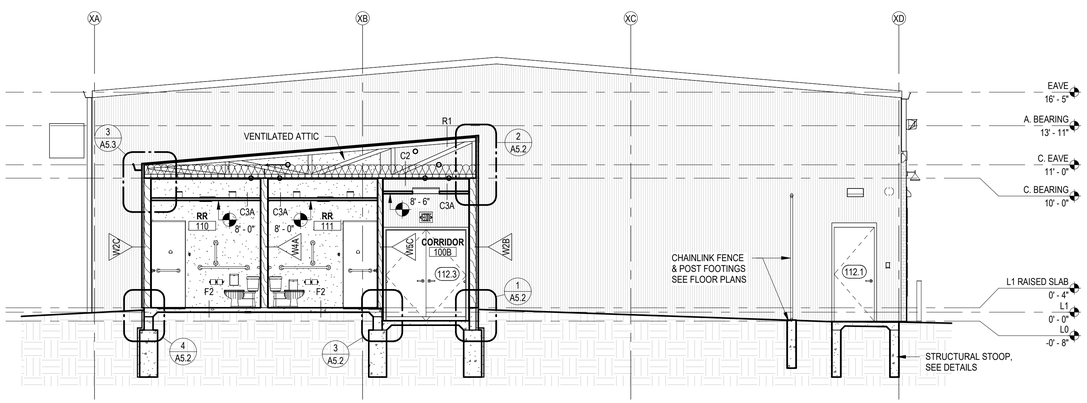
1 BUILDING SECTION - N/S @ EXISTING
3/16" = 1'-0"



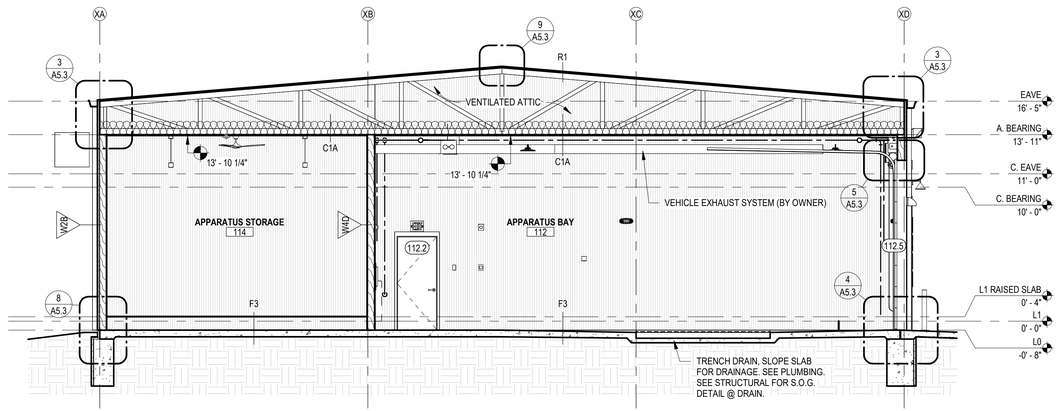
0 KEY PLAN - BUILDING SECTIONS
1/32" = 1'-0"



5 BUILDING SECTION - E/W @ RAMP
3/16" = 1'-0"



2 BUILDING SECTION - N/S @ CONNECTOR
3/16" = 1'-0"



3 BUILDING SECTION - N/S @ ADDITION
3/16" = 1'-0"

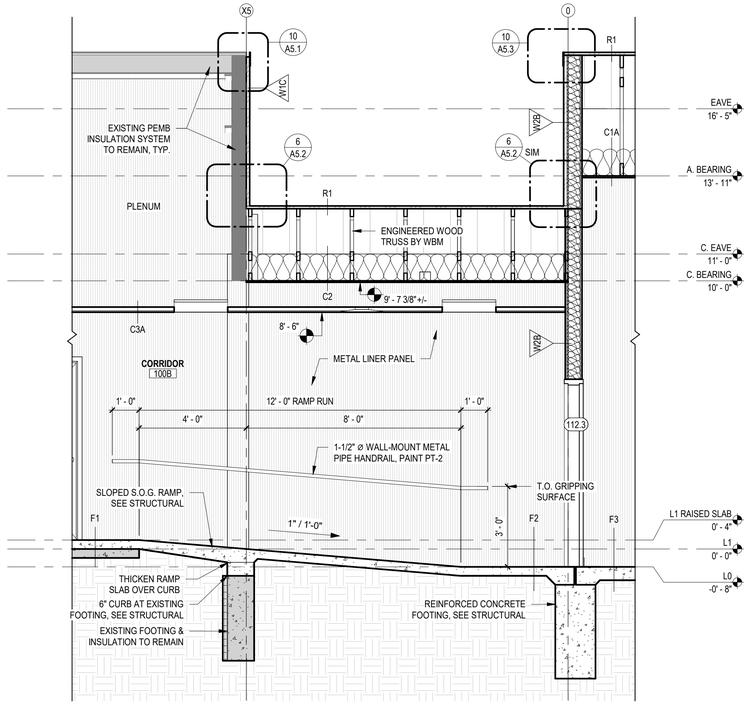
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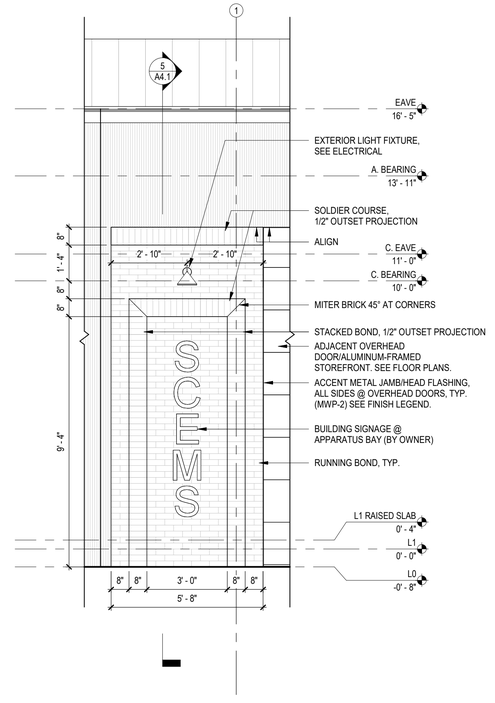
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CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
SHEET NAME: BUILDING SECTIONS
PHASE: CD

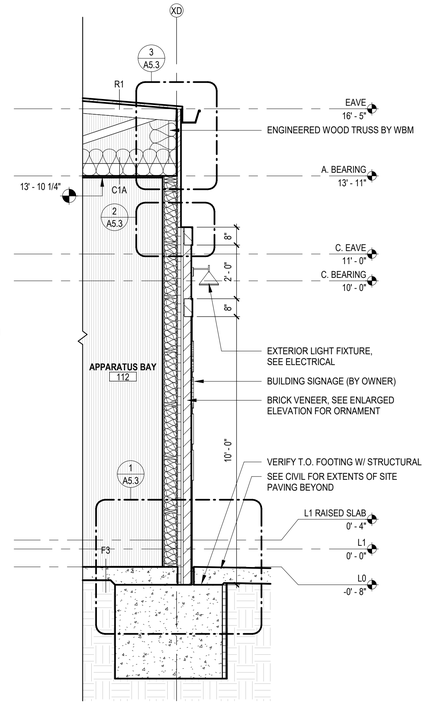
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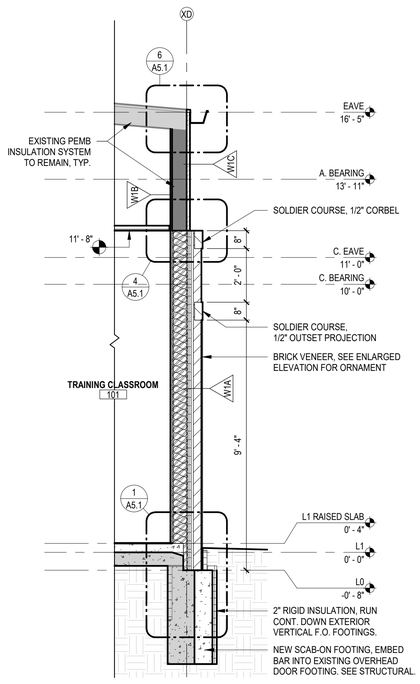
7 **ENLARGED SECTION - CONNECTOR RAMP**
3/8" = 1'-0"



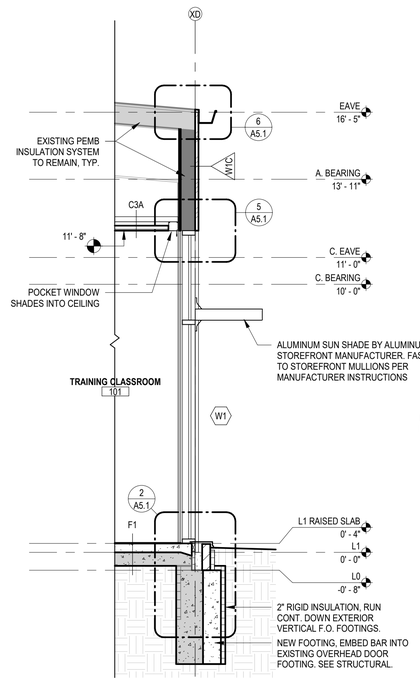
6 **ENLARGED ELEVATION - BRICK ORNAMENT**
3/8" = 1'-0"



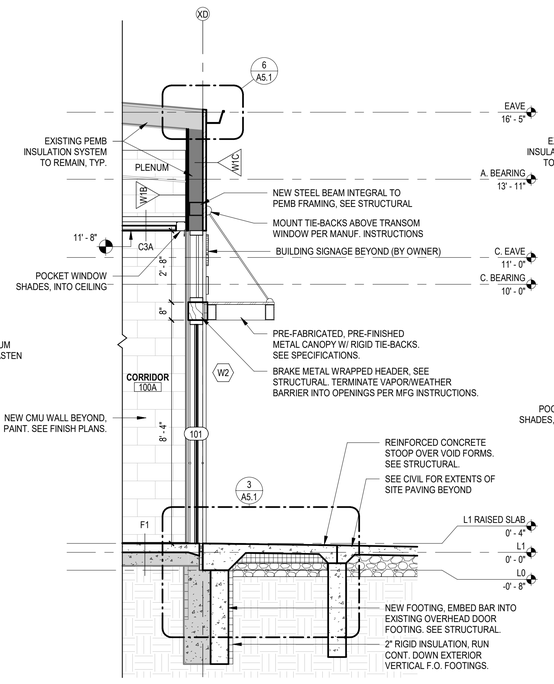
5 **WALL SECTION - PEWB @ BRICK**
3/8" = 1'-0"



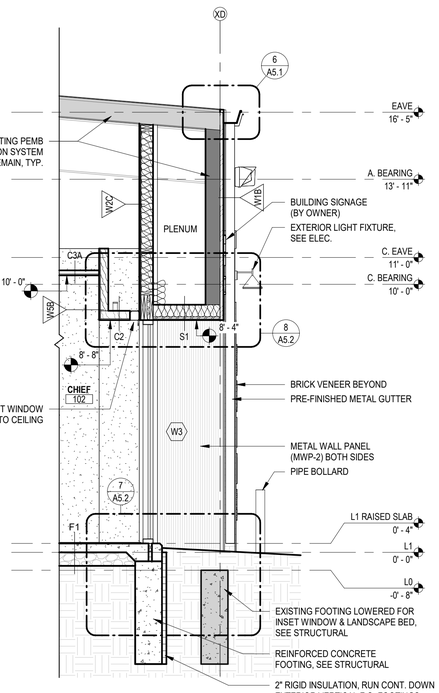
4 **WALL SECTION - SOUTH INFILL W/ BRICK**
3/8" = 1'-0"



3 **WALL SECTION - SOUTH INFILL STOREFRONT**
3/8" = 1'-0"



2 **WALL SECTION - SOUTH INFILL STOREFRONT ENTRY DOOR**
3/8" = 1'-0"



1 **WALL SECTION - SOUTH INSET WINDOW**
3/8" = 1'-0"

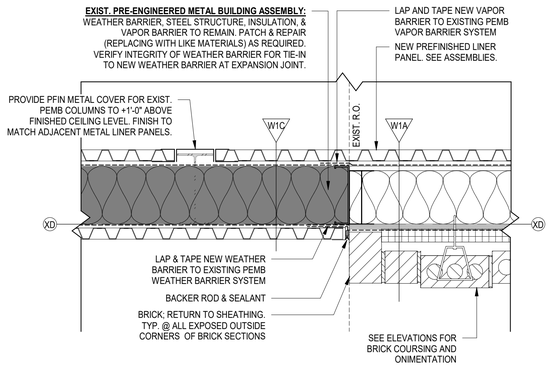
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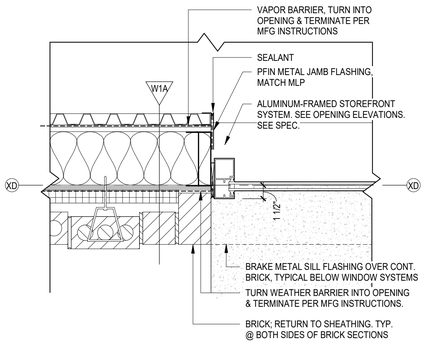
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CLIENT: STATE CENTER FIRE & EMS

PHASE: CD
PRINT DATE: 2025-12-18
SHEET NAME: WALL SECTIONS

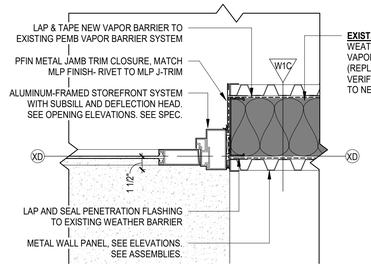
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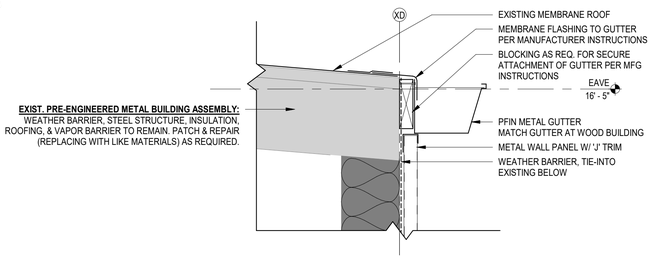
9 PLAN DETAIL - EXISTING PEMB BRICK INFILL
1 1/2" = 1'-0"



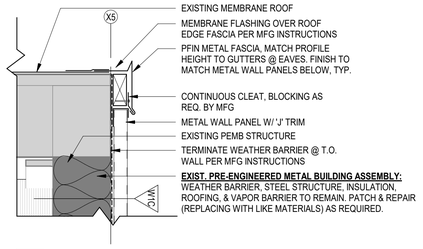
8 PLAN DETAIL - STOREFRONT JAMB @ BRICK INFILL
1 1/2" = 1'-0"



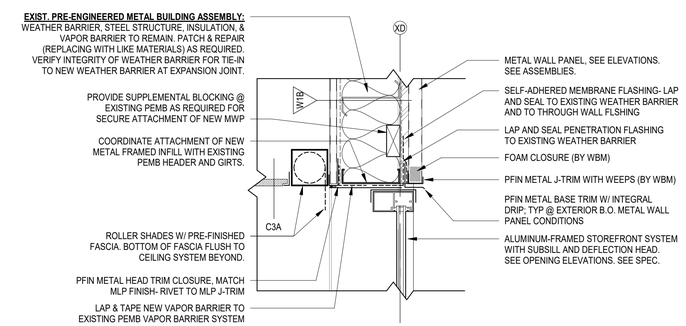
7 PLAN DETAIL - STOREFRONT DOOR JAMB @ EXISTING INFILL
1 1/2" = 1'-0"



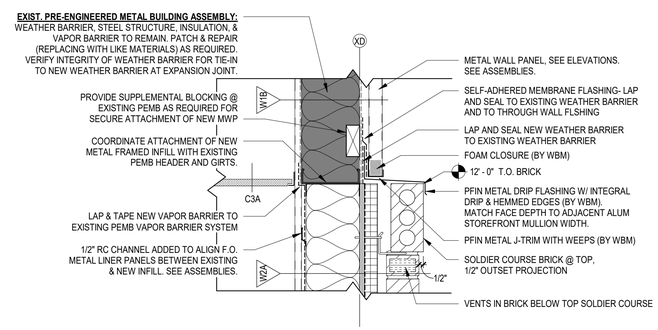
6 SECTION DETAIL - TYPICAL EAVE @ EXISTING
1 1/2" = 1'-0"



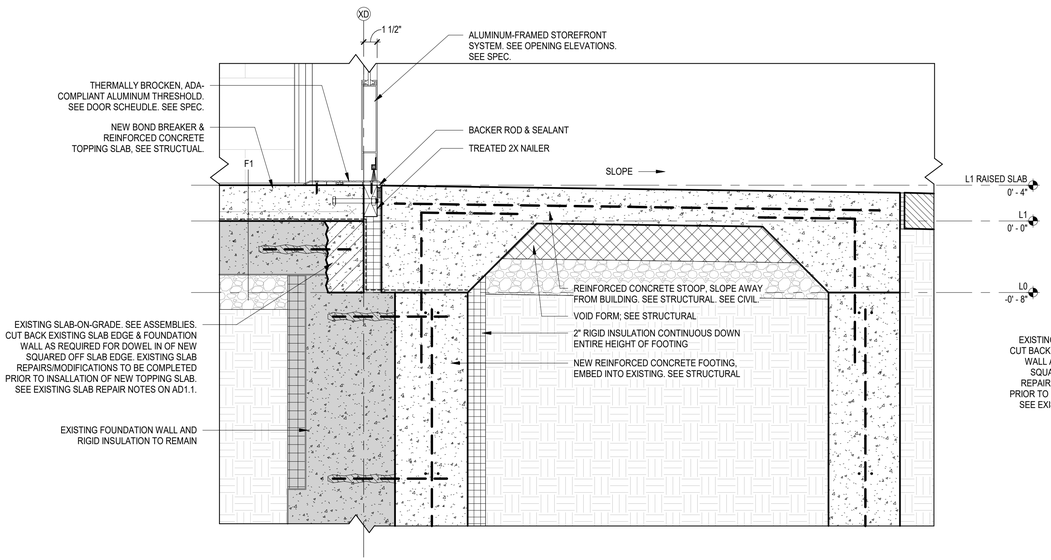
10 SECTION DETAIL - ROOF EDGE FASCIA @ PEMB
1 1/2" = 1'-0"



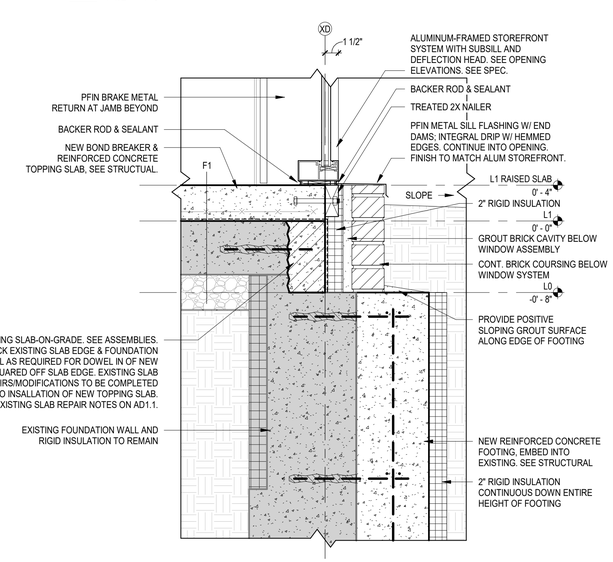
5 SECTION DETAIL - STOREFRONT HEAD @ EXISTING INFILL
1 1/2" = 1'-0"



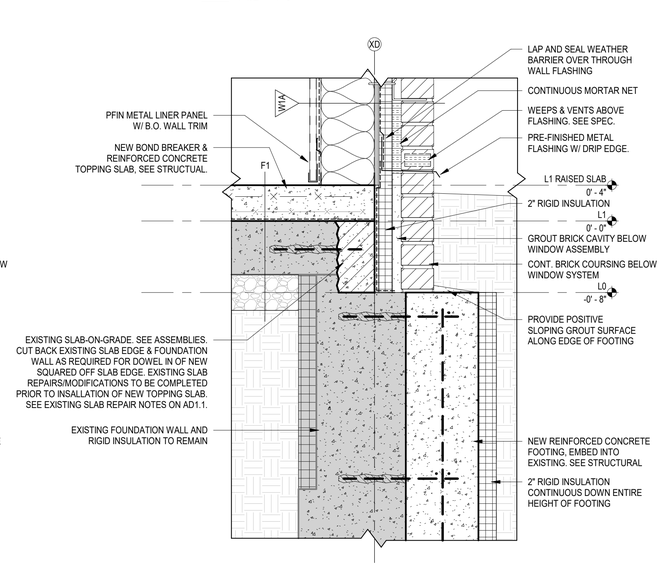
4 SECTION DETAIL - INFILL WALL T.O. BRICK TRANSITION
1 1/2" = 1'-0"



3 SECTION DETAIL - ENTRY STOOP
1 1/2" = 1'-0"



2 SECTION DETAIL - STOREFRONT BASE @ EXISTING INFILL
1 1/2" = 1'-0"



1 SECTION DETAIL - INFILL WALL SCAB-ON FOOTING
1 1/2" = 1'-0"

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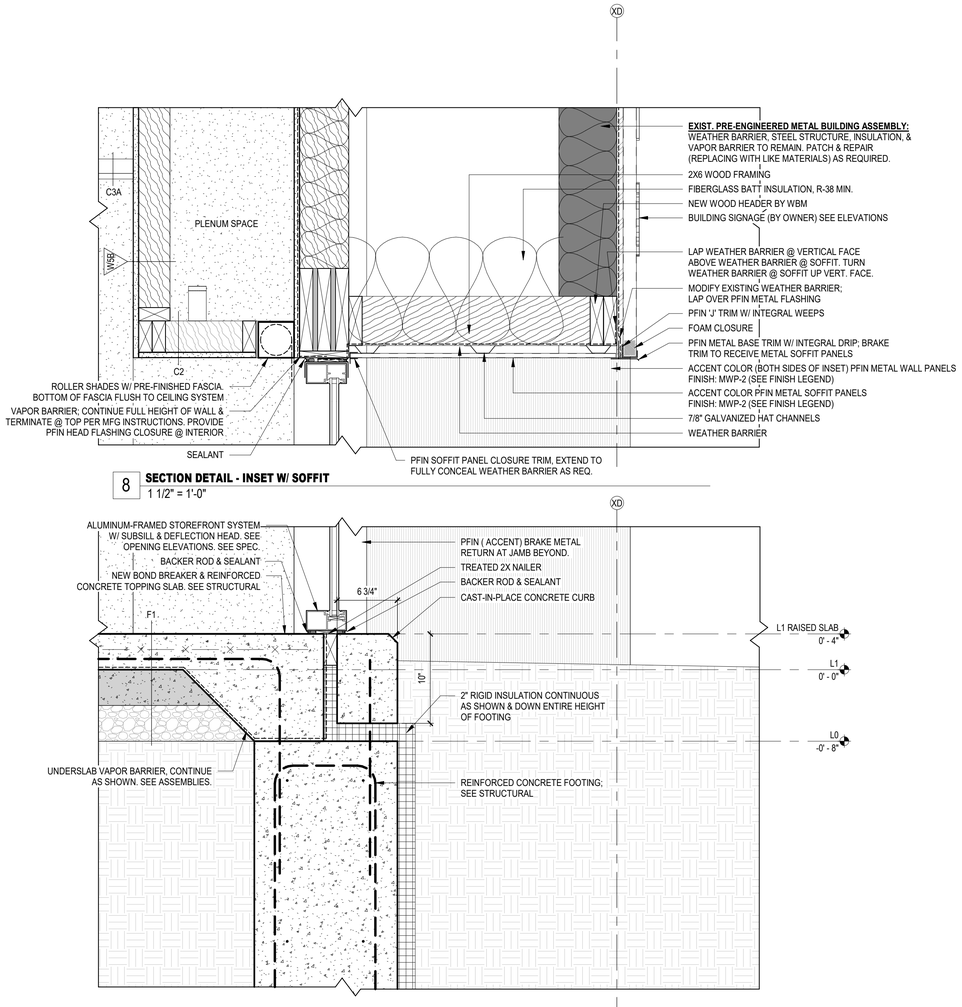
STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18

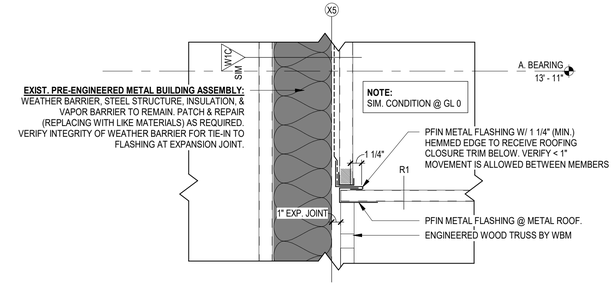
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SHEET NAME: DETAILS

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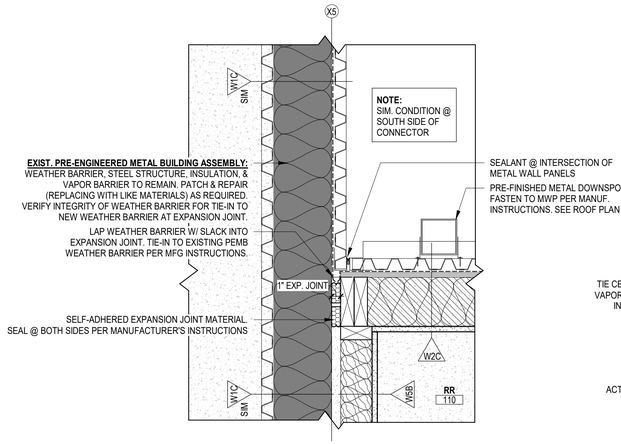


8 **SECTION DETAIL - INSET W/ SOFFIT**
1 1/2" = 1'-0"

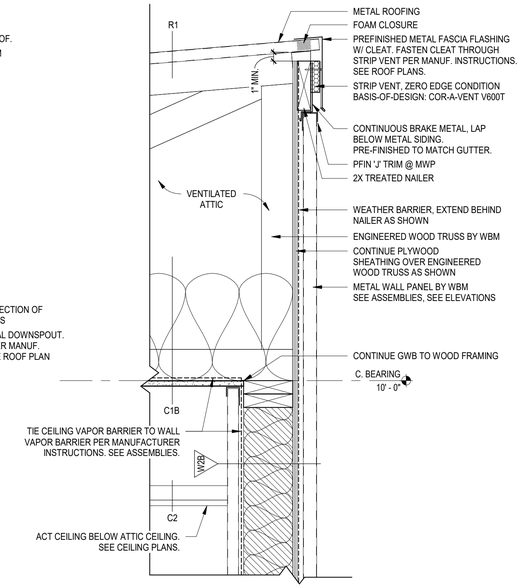
7 **SECTION DETAIL - CURB @ INSET**
1 1/2" = 1'-0"



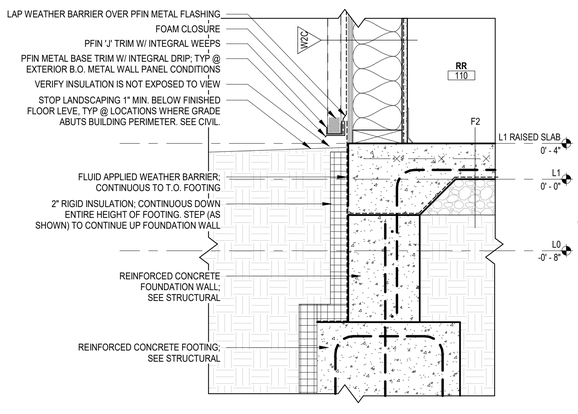
6 **SECTION DETAIL - CONNECTOR EXPANSION JOINT @ ROOF**
1 1/2" = 1'-0"



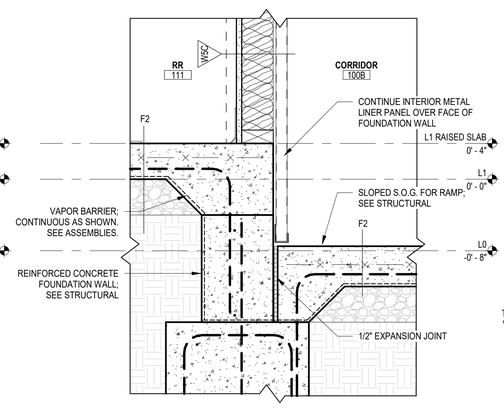
5 **PLAN DETAIL - CONNECTOR EXPANSION JOINT**
1 1/2" = 1'-0"



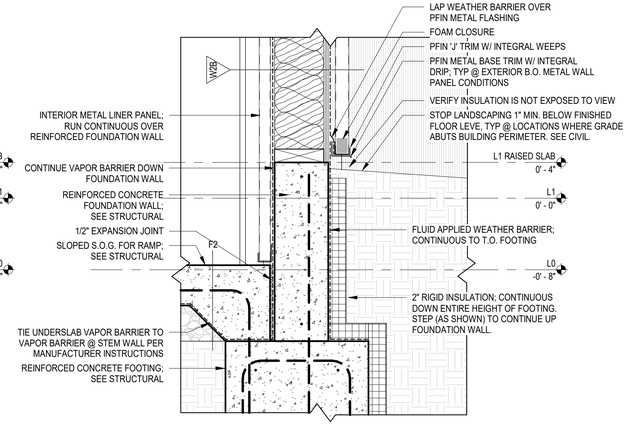
2 **SECTION DETAIL - CONNECTOR EAVE @ SOUTH WALL**
1 1/2" = 1'-0"



4 **SECTION DETAIL - CONNECTOR FOOTING @ NORTH WALL**
1 1/2" = 1'-0"



3 **SECTION DETAIL - CONNECTOR FOOTING @ RAMP**
1 1/2" = 1'-0"



1 **SECTION DETAIL - CONNECTOR FOOTING @ SOUTH WALL**
1 1/2" = 1'-0"

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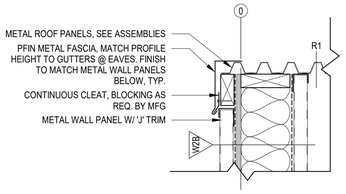
STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

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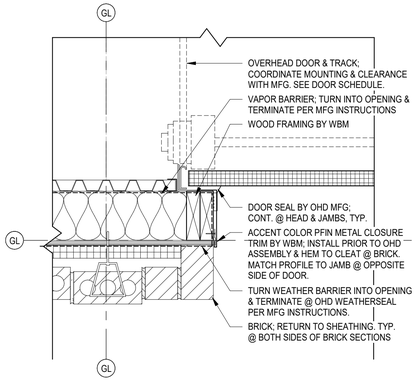
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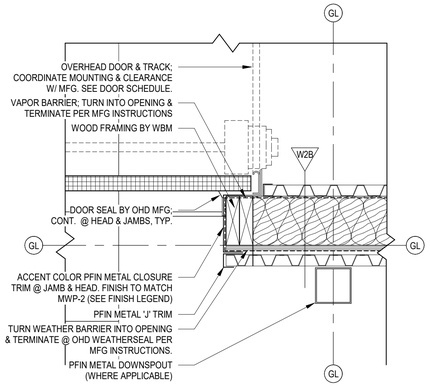
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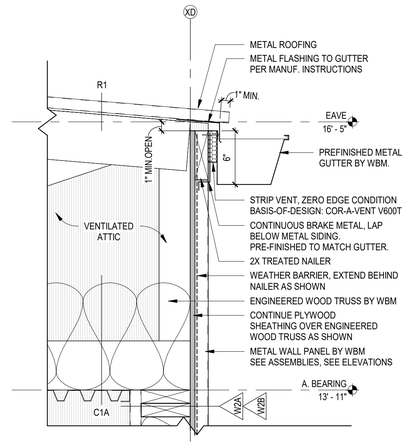
10 SECTION DETAIL - ROOF EDGE FASCIA @ WOOD BUILDING
1 1/2" = 1'-0"



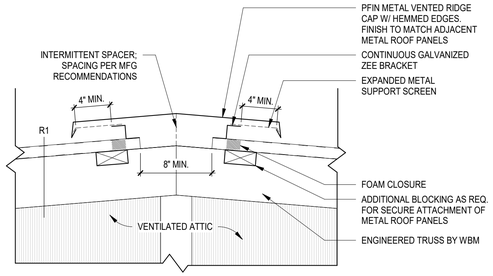
6 PLAN DETAIL - OHD JAMB @ BRICK
1 1/2" = 1'-0"



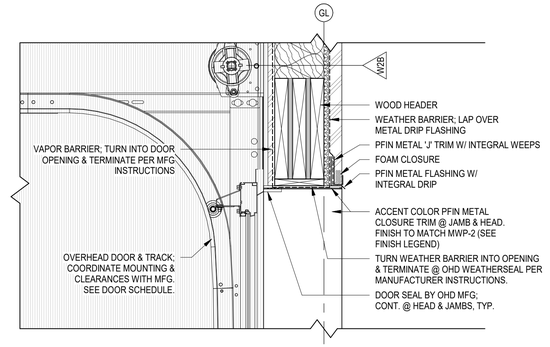
7 PLAN DETAIL - OHD JAMB @ MWP
1 1/2" = 1'-0"



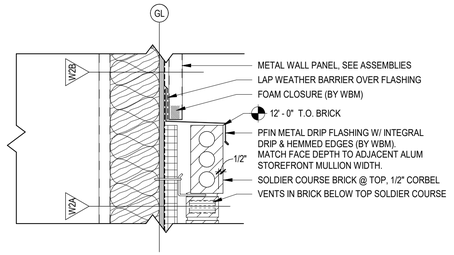
3 SECTION DETAIL - PEWB TYPICAL EAVE
1 1/2" = 1'-0"



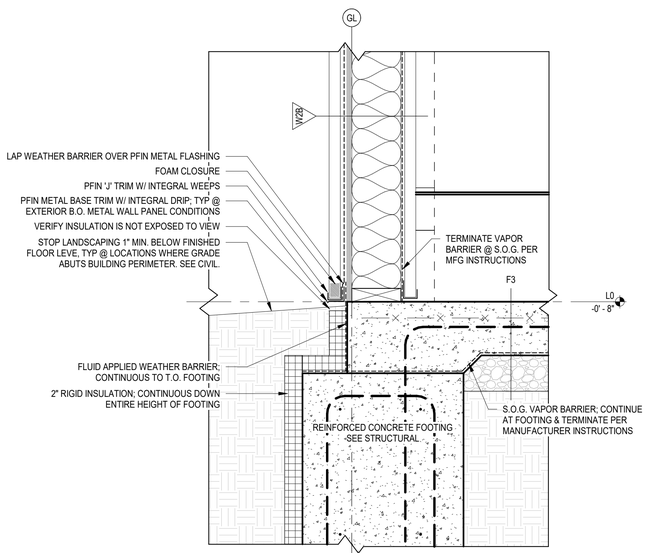
9 SECTION DETAIL - PEWB TYPICAL RIDGE
1 1/2" = 1'-0"



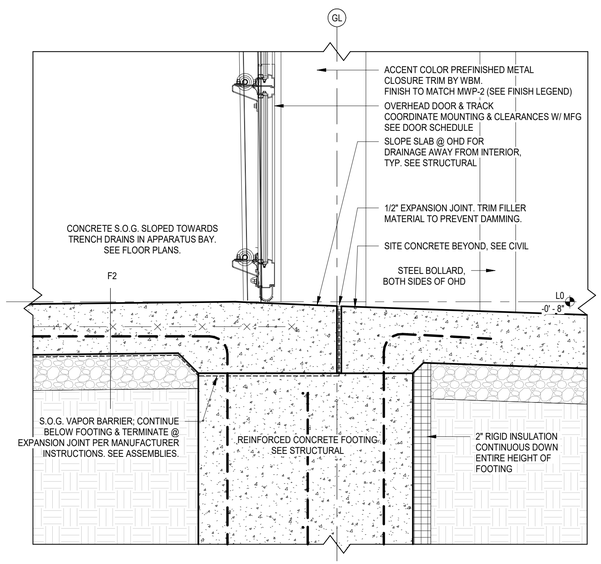
5 SECTION DETAIL - OVERHEAD DOOR HEAD
1 1/2" = 1'-0"



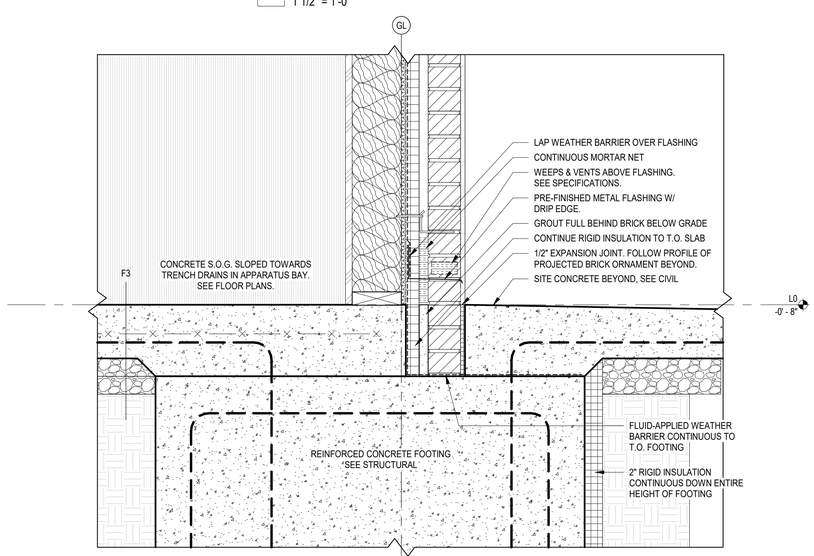
2 SECTION DETAIL - PEWB T.O. BRICK
1 1/2" = 1'-0"



8 SECTION DETAIL - PEWB TYPICAL FOOTING
1 1/2" = 1'-0"



4 SECTION DETAIL - OVERHEAD DOOR SILL
1 1/2" = 1'-0"



1 SECTION DETAIL - PEWB BRICK FOOTING
1 1/2" = 1'-0"

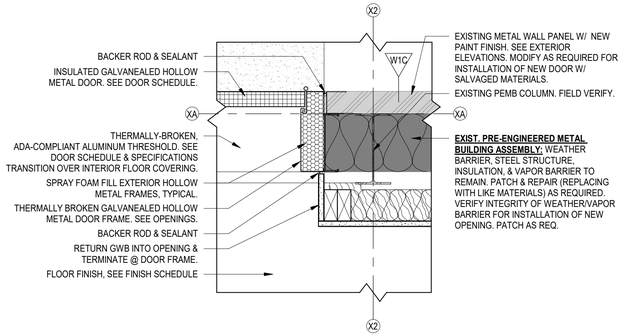
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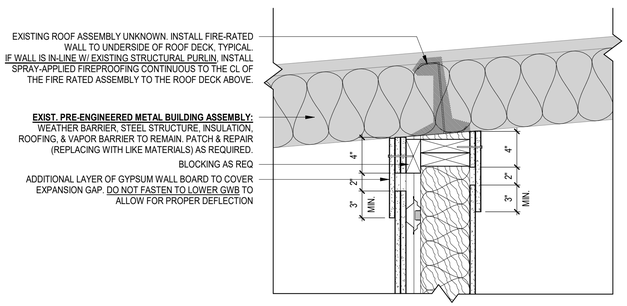
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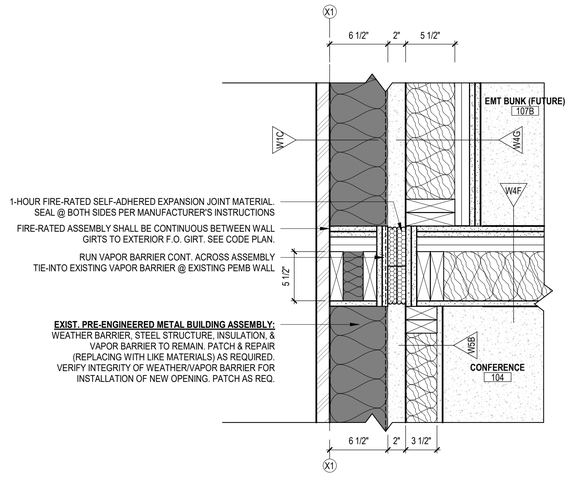
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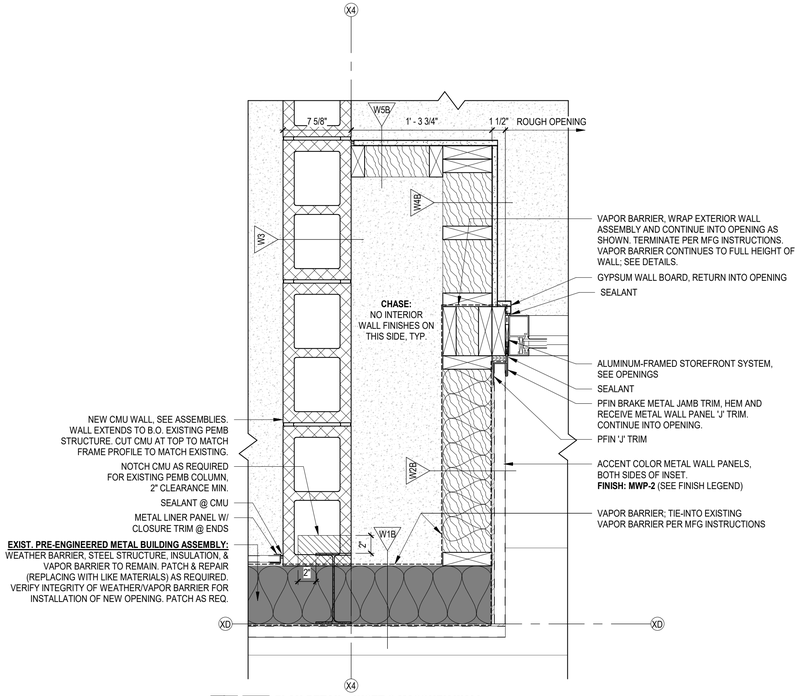
4 **PLAN DETAIL - DOOR JAMB @ EXISTING OPENING FUR WALL**
1 1/2" = 1'-0"



7 **SECTION DETAIL - FIRE PARTITION @ T.O. WALL**
1 1/2" = 1'-0"



6 **PLAN DETAIL - FIRE PARTITION @ EXIST PEMB**
1 1/2" = 1'-0"



5 **PLAN DETAIL - INSET @ MASONRY WALL**
1 1/2" = 1'-0"

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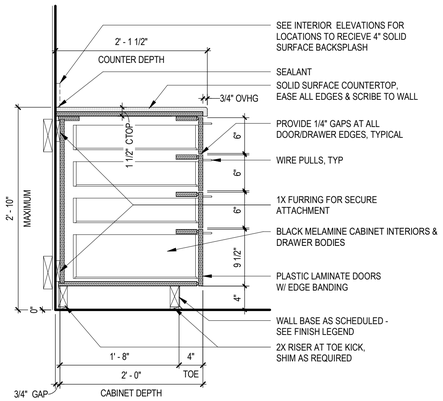
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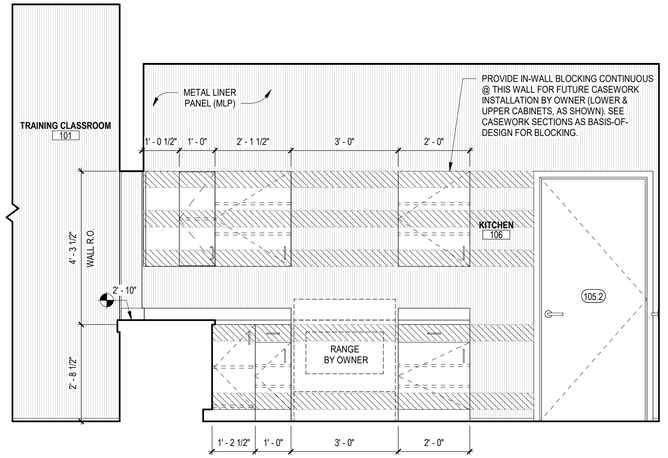
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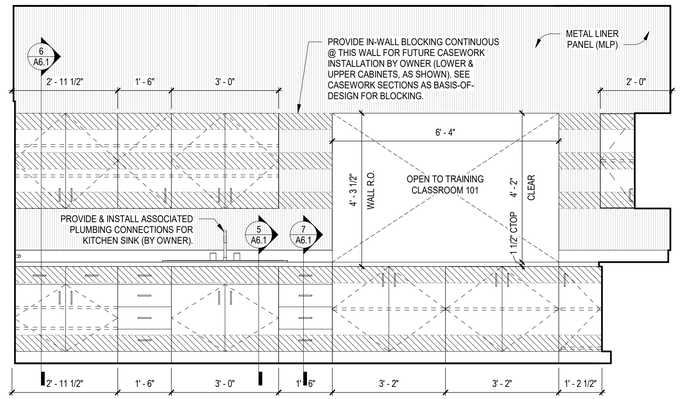


7 **CASEWORK SECTION - 4 DRAWER**
1" = 1'-0"

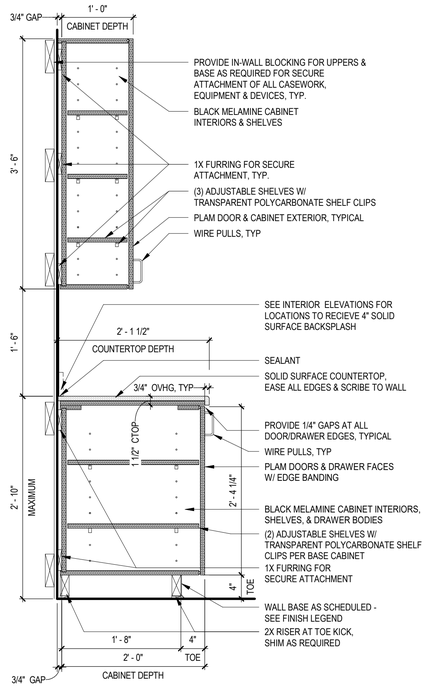
NOTE: CASEWORK DETAILS FOR REFERENCE & COORDINATION PURPOSES ONLY



4 **INTERIOR ELEVATION - KITCHEN 106 - W**
1/2" = 1'-0"

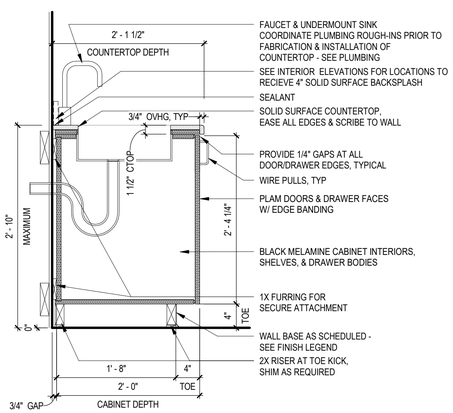


3 **INTERIOR ELEVATION - KITCHEN 106 - S**
1/2" = 1'-0"



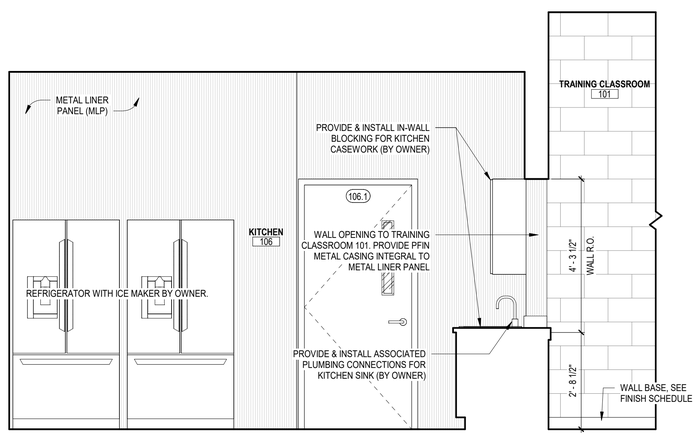
6 **CASEWORK SECTION - TYP BASE & UPPER**
1" = 1'-0"

NOTE: CASEWORK DETAILS FOR REFERENCE & COORDINATION PURPOSES ONLY

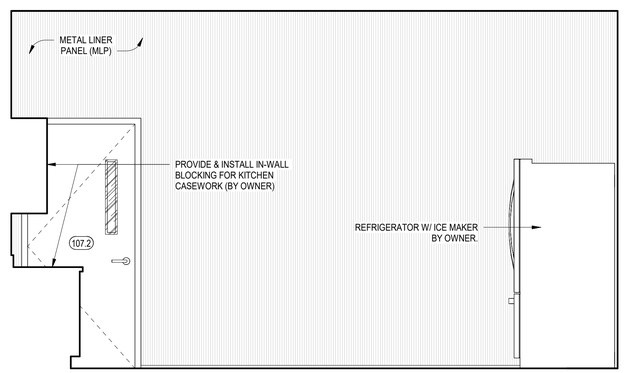


5 **CASEWORK SECTION - SINK BASE**
1" = 1'-0"

NOTE: CASEWORK DETAILS FOR REFERENCE & COORDINATION PURPOSES ONLY



2 **INTERIOR ELEVATION - KITCHEN 106 - E**
1/2" = 1'-0"



1 **INTERIOR ELEVATION - KITCHEN 106 - N**
1/2" = 1'-0"

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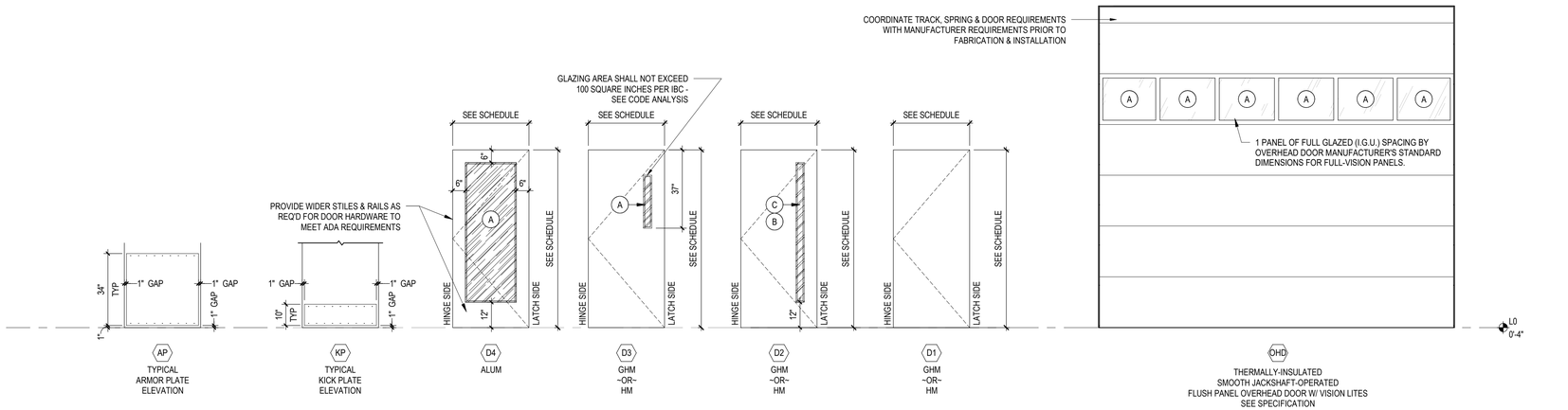
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SHEET NAME: INTERIOR ELEVATIONS & CASEWORK

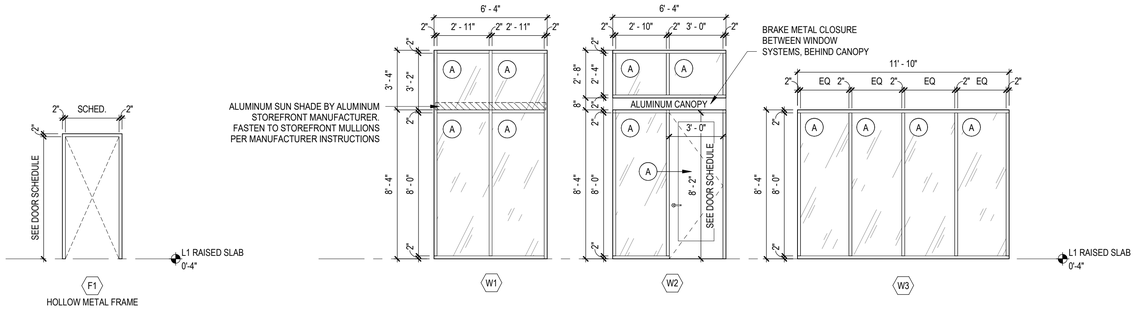
A6.1

DOOR SCHEDULE

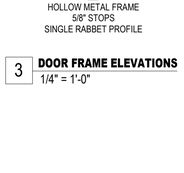
DOOR #	ROOM	LEAF COUNT	DOOR WIDTH	DOOR HEIGHT	FIRE RATING (ASSEMBLY)	THERMALLY BROKEN	THRESHOLD	LEAF						FRAME					HARDWARE (SEE SPEC)	GENERAL REMARKS
								THICKNESS	ELEVATION	MATERIAL	FINISH	GLAZING	DOOR PLATE	ELEVATION	MATERIAL	FINISH	THROAT (VFY.)	GLAZING		
100	CORRIDOR	2	3' - 0"	6' - 10"				1 3/4"	D2	HM	PT-3	B	KP	F1	GHM	PT-3	7-5/8"	--	12.0	
101	CORRIDOR	1	3' - 0"	6' - 2"	--	YES	YES	1 3/4"	D4	ALUM	ALUM-SF	A	--	W2	ALUM	ALUM-SF	4-1/2"	A	1.0	ROUGH-IN FOR ELECTRIFIED HARDWARE AND ACCESS CONTROLS.
102	CHIEF	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D3	HM	PT-3	B	KP	F1	HM	PT-3	7-5/8"	--	11.0	
103	MECH/STORAGE	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D1	HM	PT-3	B	KP	F1	HM	PT-3	7 5/8"	--	5.0	
104	CONFERENCE	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D3	HM	PT-3	B	KP	F1	HM	PT-3	7"	--	10.0	
105.1	STORAGE	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D1	HM	PT-3	--	KP	F1	HM	PT-3	7"	--	9.0	
105.2	STORAGE	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D1	HM	PT-3	--	KP	F1	HM	PT-3	5"	--	9.0	
106.1	KITCHEN	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D3	HM	PT-3	B	AP	F1	HM	PT-3	6-7/8"	--	10.0	
107.1	EMT DAYROOM (FUTURE)	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D3	HM	PT-3	B	KP	F1	HM	PT-3	6-3/4"	--	10.0	
107.2	EMT DAYROOM (FUTURE)	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D3	HM	PT-3	B	KP	F1	HM	PT-3	6-7/8"	--	10.0	
107.3	EMT DAYROOM (FUTURE)	1	3' - 0"	6' - 10"	--	YES	YES	1 3/4"	D3	GHM	PT-3	A	KP	F1	GHM	PT-3	8"	--	3.0	NEW DOOR IN EXIST. OPENING W/ INCREASED HEAD HEIGHT. SEE DETAILS. ROUGH-IN FOR ELECTRIFIED HARDWARE, ACCESS CONTROLS, DOOR POSITION SWITCH.
107B	EMT BUNK (FUTURE)	1	3' - 0"	6' - 10"	1-HR	--	--	1 3/4"	D1	HM	PT-3	--	KP	F1	HM	PT-3	9"	--	6.0	SOUND ATTENUATION CORE. SPRAY FOAM FILL FRAME.
108	RR	1	3' - 0"	6' - 10"	--	--	--	1 3/4"	D1	HM	PT-3	--	KP	F1	HM	PT-3	6-3/4"	--	8.0	
109	LOCKER	1	3' - 0"	6' - 8"	--	--	--	1 3/4"	D3	HM	PT-3	B	KP	F1	HM	PT-3	5"	--	6.0	
110	RR	1	3' - 0"	6' - 8"	--	--	--	1 3/4"	D1	HM	PT-3	--	--	F1	HM	PT-3	6"	--	7.0	
111	RR	1	3' - 0"	6' - 8"	--	--	--	1 3/4"	D1	HM	PT-3	--	--	F1	HM	PT-3	6"	--	7.0	
112.1	APPARATUS BAY	1	3' - 0"	7' - 0"	--	YES	YES	1 3/4"	D3	GHM	PT-3	A	--	F1	GHM	PT-3	8-1/4"	--	3.0	ROUGH-IN FOR ELECTRIFIED HARDWARE, ACCESS CONTROLS, DOOR POSITION SWITCH.
112.2	APPARATUS BAY	1	3' - 0"	7' - 0"	--	YES	YES	1 3/4"	D3	GHM	PT-3	A	--	F1	GHM	PT-3	8-1/4"	--	3.0	ROUGH-IN FOR ELECTRIFIED HARDWARE, ACCESS CONTROLS, DOOR POSITION SWITCH.
112.3	APPARATUS BAY	2	3' - 0"	6' - 10"	--	YES	YES	1 3/4"	D2	GHM	PT-3	A	KP	F1	GHM	PT-3	7-5/8"	--	13.0	
112.4	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
112.5	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
112.6	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
112.7	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
112.8	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
112.9	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
112.10	APPARATUS BAY	1	14' - 0"	12' - 8"	--	YES	--	2"	OHD	STEEL	BY MANUF	D	--	BY MANUF	BY MANUF	BY MANUF	--	--	14.0	
113	EMT STORAGE	1	3' - 0"	6' - 8"	--	YES	YES	1 3/4"	D3	GHM	PT-3	A	AP	F1	GHM	PT-3	5-1/2"	--	4.0	ROUGH-IN FOR FUTURE ACCESS CONTROLS & DOOR POSITION SWITCH.
114	APPARATUS STORAGE	2	3' - 0"	6' - 10"	--	--	--	1 3/4"	D3	GHM	PT-3	B	AP	F1	GHM	PT-3	5-1/2"	--	12.0	



1 **DOOR ELEVATIONS**
1/4" = 1'-0"



2 **STOREFRONT ELEVATIONS**
1/4" = 1'-0"



3 **DOOR FRAME ELEVATIONS**
1/4" = 1'-0"

GENERAL NOTES - OPENINGS & DOOR SCHEDULE:

- DOOR ELEVATIONS ARE SHOWN ONE DIRECTION FOR CLARITY. PRIOR TO FABRICATION, THE CONTRACTOR AND WINDOW PROVIDER SHALL DISTINGUISH ALL REVERSE (REV) WINDOWS AND THE OPERABLE SWING DIRECTION OF ALL DOORS & OPERABLE SASHES WITH WHAT IS SHOWN ON BOTH THE EXTERIOR ELEVATIONS AND THE FLOOR PLANS.
- CONTRACTOR SHALL PROVIDE TEMPERED/SAFETY GLAZING AT ALL LOCATIONS REQUIRED BY THE BUILDING CODE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL DOOR RELATED ITEMS AND COMPONENTS, INCLUDING DOOR HARDWARE AND THRESHOLDS, MEET APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND ACCESSIBILITY CODES.
- CONTRACTOR SHALL FIELD VERIFY ALL ROUGH OPENINGS AND THE ACTUAL THICKNESS AND CONSTRUCTION ASSEMBLY OF ALL WALLS, PRIOR TO ORDER AND INSTALLATION OF DOORS AND FRAMES. CONTRACTOR AND/OR SUPPLIER SHALL MODIFY THE ELEVATIONS, DOORS, AND FRAMES, AS REQUIRED, TO ACCOUNT FOR TOLERANCES AND PROVIDE GAP AROUND PERIMETER FOR SHIM SPACE & SEALANT. VERIFY SYSTEM WEEPS ARE CLEARED, FREE OF SEALANT & OTHER DEBRIS.
- FIELD VERIFY THE ACTUAL THICKNESS OF ALL WALLS, PRIOR TO FABRICATION OF DOOR FRAMES AND THROAT DEPTHS.
- PROVIDE SILL PAN AT STOREFRONT/CURTAIN WALL CONDITIONS PER MANUFACTURER REQUIREMENTS. SEE SPECIFICATION.
- PROVIDE ADDITIONAL DOOR STOPS AT LOCATIONS REQUESTED BY THE OWNER AFTER INSTALLATION.
- ALL HOLLOW METAL FRAMES SHALL BE ALL-WELDED TYPE. WHERE FRAMES ARE LOCATED IN WOOD STUD FRAMED WALLS, CONTRACTOR SHALL PROVIDE ADDITIONAL BLOCKING AND ANCHORS AS REQUIRED FOR SECURE ATTACHMENT TO WALL ASSEMBLY.
- CONTRACTOR SHALL PROVIDE THRESHOLDS AT ALL EXTERIOR DOORS. THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT ABOVE THE ADJACENT FINISHED FLOOR OR LANDING. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4 INCH AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50-PERCENT SLOPE).
- ALL HOLLOW METAL DOORS AND FRAMES ARE INTENDED TO BE SHOP-PRIMED AND FIELD-PAINTED.
- ALL DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN HEIGHTS OF 34" MIN. AND 48" MAX. ABOVE FINISHED FLOOR.
- STOREFRONT/CURTAIN WALL SUPPLIER TO PROVIDE DEFLECTION HEADS AS REQUIRED.
- STOREFRONT/CURTAIN WALLSUPPLIER SHALL PROVIDE ALL REQUIRED ADDITIONAL REINFORCEMENT ACCESSORIES & THICKENED WALL MULLIONS AS REQUIRED TO ACHIEVE DESIGN INTENT SHOWN IN THE CONSTRUCTION DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION & INSTALLATION.
- DOOR OPENINGS WITHIN STOREFRONT/CURTAIN WALL ASSEMBLIES ARE DRAWN TO INCLUDE MANUFACTURER'S 1" SUBFRAME. CONTRACTOR SHALL VERIFY ACTUAL ROUGH OPENINGS AT DOORS WITHIN STOREFRONT/CURTAIN WALL ASSEMBLIES WITH MANUFACTURER AND ADJUST ELEVATIONS AS REQUIRED TO ACHIEVE THE DESIGN INTENT INDICATED.

GENERAL NOTES - FLOOR PLANS:

OPENINGS DOOR SCHEDULE ABBREVIATIONS/DEFINITIONS:

EQ	=	EQUAL
GHM	=	GALVANEALLED HOLLOW METAL
GALV	=	INSULATED GALVANIZED STEEL FLUSH PANELS
HM	=	HOLLOW METAL
PT	=	PAINT (SEE FINISH LEGEND)
CLR ANOD	=	CLEAR ANODIZED
ALUM	=	ALUMINUM
S&S	=	SHIM & SEAL
R.O.	=	ROUGH OPENING
F.V.	=	FIELD VERIFY
MFG	=	MANUFACTURER
STD	=	STANDARD
SMOOTH	=	SMOOTH FLUSH PANEL FINISH
FRC	=	COLOR AS SELECTED BY ARCHITECT FROM MFG'S FULL RANGE OF STANDARD & PREMIUM COLORS
*	=	SEE GENERAL REMARKS

KEYED NOTE LEGEND - GLAZING:

A: INSULATED GLAZING UNIT (I.G.U.)
1" INSULATED GLAZING, DOUBLE-PANE, ARGON-FILLED, LOWe COATING ON THE THIRD FACE

B: NON-INSULATED GLAZING:
1/4" SINGLE PANE GLAZING (TEMPERED WHERE REQUIRED)

C: NOT USED.

D: DOUBLE-STRENGTH
1/2" INSULATED, DOUBLE STRENGTH GLAZING
SEE SPECIFICATIONS

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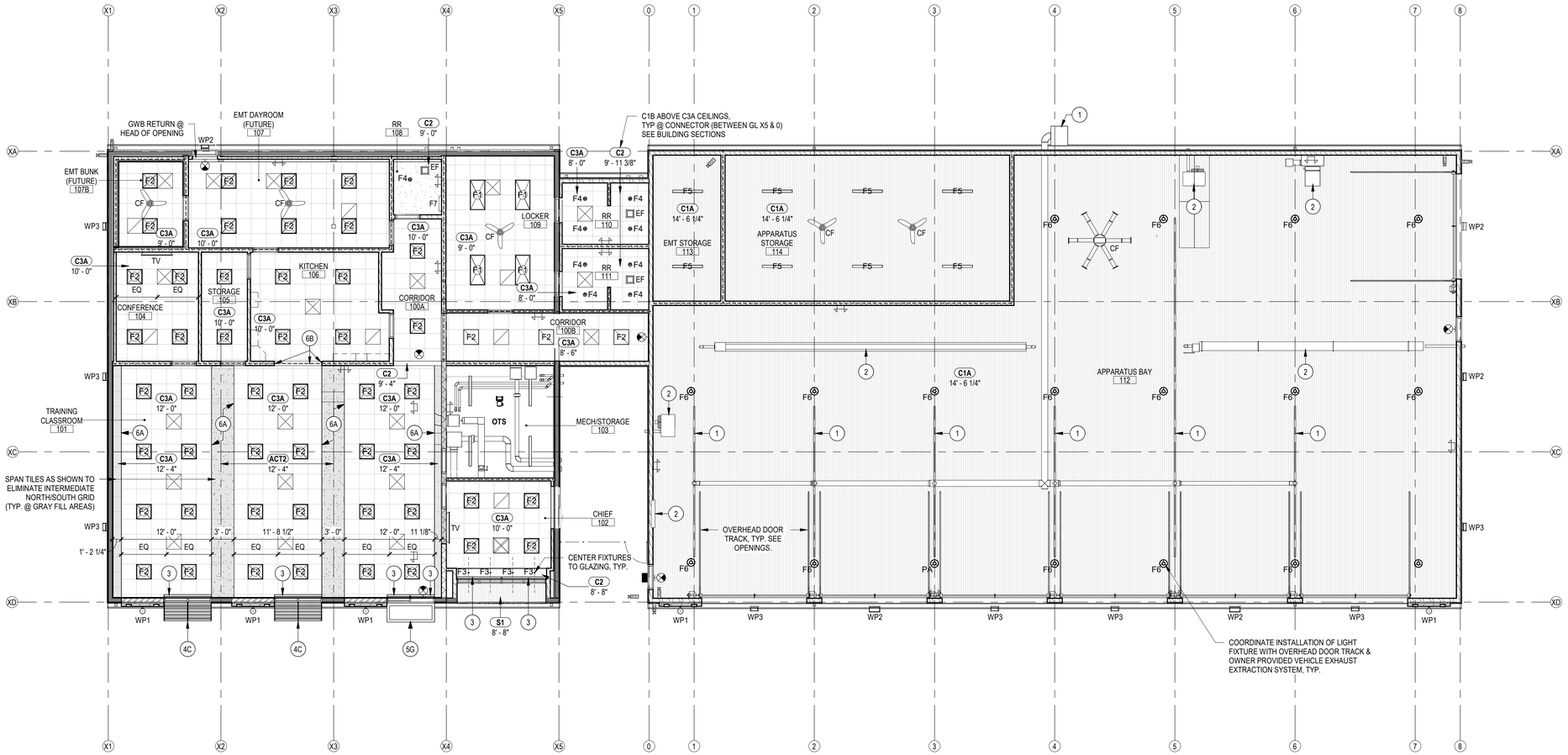
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139 4th STREET
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CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18

PHASE: CD
SHEET NAME: OPENINGS & DOOR SCHEDULE

A7.1



1 **CEILING PLAN**
1/8" = 1'-0"

GENERAL NOTES - CEILING PLANS:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- DIMENSIONS ARE TAKEN FROM FINISH FACE OF WALL TO CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING AND NAILERS WHERE REQUIRED TO SECURELY ATTACH ACCESSORIES, GRAB BARS, DEVICES, FIXTURES, EQUIPMENT, MILLWORK, OR ANY OTHER ITEMS TO A WALL OR CEILING SURFACE.
- SEE INTERIOR ELEVATIONS, FINISH PLANS, SCHEDULES, AND SPECIFICATION FOR INFORMATION ON LOCATION & TYPE OF MATERIALS, PAINTS, COLORS, & FINISHES.
- CONTRACTOR SHALL PROVIDE FIBERGLASS-FACED, MOLD & MOISTURE RESISTANT GYPSUM BOARD AT WET LOCATIONS, TYPICAL.
- REFER TO SPECIFICATION FOR CEILING FINISH AND TEXTURE.
- CEILING HEIGHTS ARE INDICATED WITH "SPOT ELEVATIONS" AND INDICATE THE HEIGHT OF THE FINISHED CEILING SURFACE ABOVE THE NEW FINISHED FLOOR, U.N.O. SEE BUILDING SECTIONS FOR RELATIVE FLOOR HEIGHTS.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL FIXTURES, TYPES AND LOCATIONS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. LIGHT FIXTURES AND MECHANICAL REGISTERS ARE SHOWN FOR DIMENSIONAL LAYOUT AND COORDINATION PURPOSES ONLY, NOT ALL FIXTURES ARE SHOWN. SEE MECHANICAL AND ELECTRICAL FOR TYPES AND QUANTITIES.
- AT NEW OPENINGS LARGER THAN 1'-4" WIDE IN MASONRY WALLS, CONTRACTOR SHALL PROVIDE NEW STEEL LINTELS, AS SPECIFIED. SEE STRUCTURAL. SEE LINTEL SCHEDULE.
- WHERE RIGID INSULATION IS PROVIDED, IT SHALL BE PROTECTED FROM IGNITION AT ALL TIMES. THIS INCLUDES RIGID INSULATION IN ALL CEILING PLENUMS (LOCATED ABOVE THE CEILING BUT BELOW THE ROOF DECK). NO FOAM PLASTIC SHALL BE EXPOSED TO THE INTERIOR OF THE BUILDING. SEE ASSEMBLIES.
- NOT ALL EXPOSED LINTELS ARE IDENTIFIED ON THE CEILING PLANS. AT ALL LOCATIONS WHERE LINTELS ARE EXPOSED TO VIEW, PAINT LINTELS WITH PAINT AS SPECIFIED.
- CONTRACTOR SHALL PROTECT ALL ADJACENT WALL AND CEILING SURFACES AND ITEMS SHOWN "TO REMAIN" THROUGHOUT DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL REPAIR AND REPLACE ALL DAMAGED SURFACES & ITEMS NOT SHOWN TO BE REMOVED.
- WHERE EXISTING FIXTURES AND/OR DEVICES ARE REMOVED, CONTRACTOR SHALL CLEAN, PATCH AND REPAIR ALL EXPOSED AREAS OF THE CEILING AS REQUIRED FOR A CONSISTENT FINISH AND SEAMLESS TRANSITION TO SIMILAR ADJACENT SURFACES.
- WHERE A NON-ACCESSIBLE CEILING IS INDICATED TO REMAIN AND IS LEFT EXPOSED TO VIEW, FIRST ROUTE ALL NEW MECHANICAL, ELECTRICAL, AND FIRE SUPPRESSION SYSTEM COMPONENTS ABOVE OTHER ADJACENT AREAS WHERE CEILINGS ARE PRESENT AND EASILY ACCESSIBLE.
- FIXTURES AND DEVICES SHALL BE ALIGNED WITH ALL OTHER ADJACENT FIXTURES AND DEVICES. CUT CLEAN PENETRATIONS, SEAL PROPERLY, AND PAINT ALL PIPING AND CONDUITS TO MATCH THE ADJACENT WALLS/CEILINGS)
  - SPRINKLER HEADS SHALL NOT BE PAINTED.
  - TELECOMMUNICATIONS CABLES SHALL NOT BE PAINTED.
  - SURFACE-MOUNT RACEWAY SHALL NOT BE PAINTED.
  - ***CLEANING OF PAINTED CABLE IS NOT ACCEPTABLE.***
- SEE FLOOR PLANS FOR WALL TYPES AND LOCATIONS.
- REFER TO SPECIFICATIONS AND ROOM FINISH SCHEDULE FOR PAINT AND PROTECTIVE COATINGS.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR WORK IN MECHANICAL/ELECTRICAL ROOMS.
- SEE INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION ON FINISHED SOFFITS, HEADERS, BULKHEADS, AND CEILINGS. WHERE NOT INDICATED ON CEILING PLANS.
- THE PRE-ENGINEERED WOOD BUILDING,WOOD COLUMNS, WOOD TRUSSES, END WALLS FRAMES, LADDER FRAMES, PURLINS, METAL SIDING PANELS, METAL ROOFING, METAL LINER PANEL, FASCIAS, GUTTERS, DOWNSPOUTS, INSULATION, EXTRUDED METAL SIDING TRIMS AT OPENINGS, CLIPS, ANGLES, FASTENERS, ATTACHMENTS AND ALL OTHER RELATED ACCESSORIES ARE PROVIDED BY THE INDEPENDENT WOOD BUILDING CONTRACTOR AND ARE THE SOLE RESPONSIBILITY OF THE WOOD BUILDING MANUFACTURER AND INSTALLATION CONTRACTOR.

KEYED NOTE LEGEND - CEILING PLANS (#)

1 VEHICLE EXHAUST EXTRACTION SYSTEM (BY OWNER)
SEE SPECIFICATIONS FOR BASIS-OF-DESIGN SYSTEM W/ SLIDING BALANCER TRACK OR RAIL SYSTEM, SPIRAL DUCT CONTROL BOX & EXHAUST FAN. SEE MECHANICAL. SHOWN FOR REFERENCE & COORDINATION ONLY.

2 MECH/PLUMBING FIXTURE (SCOPE VARIES)
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED CONDUIT, PIPING, DUCTWORK, HOUSEKEEPING PADS & OTHER ACCESSORIES. SEE MEP.

3 MANUAL ROLLER SHADES
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED HEADBOXES/ FASCIAS, END CAPS & OTHER ACCESSORIES. PROVIDE TOP-MOUNT POCKET INSTALLATION. SEE SPECIFICATIONS.

4C INTEGRATED ALUMINUM SUN SHADES
PROVIDE & INSTALL NEW ALUMINUM SUN SHADE INTEGRAL TO ASSOCIATED ALUMINUM STOREFRONT SYSTEM.

5G PRE-MANUFACTURERED ALUMINUM CANOPY
PROVIDE & INSTALL PRE-MANUFACTURERED ALUMINUM CANOPY & ALL ASSOCIATED TRIMS, ANGLES, TIE-BACKS, & OTHER ACCESSORIES. SEE SECTIONS & DETAILS. SEE SPECIFICATIONS. SEE STRUCTURAL.

6A BRAKE METAL CEILING CLOSURE TRIM
PROVIDE & INSTALL PRE-FINISHED BRAKE METAL CLOSER TRIM AT ACT CEILING HEIGHT CHANGE. FINISH TO MATCH ADJACENT CEILING GRID. SEE DETAILS.

6B METAL CASED OPENING
PROVIDE & INSTALL PRE-FINISHED METAL CASING INTEGRAL TO METAL LINER PANEL AT JAMBS & HEAD OF WALL OPENING. FINISH TO MATCH METAL LINER PANEL.

SYMBOL LEGEND - CEILING PLANS:

NOTE: PROVIDE & INSTALL NEW FIXTURES UNLESS NOTED OTHERWISE BY CEILING PLAN KEYED NOTES

- C-# / 0' - 0" — CEILING ASSEMBLY TAG (SEE ASSEMBLIES); CEILING HEIGHT (AFF) SEE BUILDING SECTIONS
- OTS — CEILING OPEN TO STRUCTURE ABOVE
- +0'-0" — SPOT ELEVATION TAG HEIGHT RELATIVE TO +0'-0"
- (DASHED LINE) INTERIOR WALL, FULL HEIGHT TO STRUCTURE/DECK ABOVE. SEE FLOOR PLANS FOR HEIGHTS OF UNCONNECTED WALLS.
- SUPPLY, RETURN REGISTER (SEE MECH)
- EF — EXHAUST FAN (SEE MECH)
- CF — CEILING FAN SEE ELECTRICAL
- TV — TV (WALL MOUNT), BY OWNER PROVIDE BLOCKING & ELEC. AS REQ. COORD W/ OWNER FOR INSTALL HEIGHT. SEE ELECTRICAL.
- SECURITY CAMERA SEE TECHNOLOGY
- F1 — 2X4 LIGHT FIXTURE (LAY-IN) SEE ELECTRICAL
- F2 — 2X2 LIGHT FIXTURE (LAY-IN) SEE ELECTRICAL
- F3 — CAN LIGHT FIXTURE, DISPLAY (RECESSED) SEE ELECTRICAL
- F4 — CAN LIGHT FIXTURE (RECESSED) SEE ELECTRICAL
- F5 — LINEAR LIGHT FIXTURE (SURFACE MOUNT) SEE ELECTRICAL
- F6 — HIGH-BAY LED LIGHT FIXTURE (SUSPEND.) SEE ELECTRICAL
- F7 — VANITY LIGHT FIXUTRE (WALL-MOUNT) SEE ELECTRICAL
- EMERGENCY LIGHT, WALL-MOUNT SEE ELECTRICAL
- EMERGENCY EXIT LIGHT, WALL-MOUNT SEE ELECTRICAL
- WP1 — EXTERIOR DECORATIVE WALL PACK LIGHT FIXTURE (WALL MOUNT) SEE ELECTRICAL. SEE EXT. ELEVATIONS.
- WP2 WP3 — EXTERIOR WALL PACK LIGHT FIXTURE (WALL MOUNT) SEE ELECTRICAL. SEE EXT ELEVATIONS.

SEE ELECTRICAL FOR ADDITIONAL LOCATIONS OF TELECOMM DEVICES, EMERGENCY LIGHT FIXTURES, LIGHTING CONTROL FIXTURES & OTHER MISCELLANEOUS EQUIPMENT/FIXTURES. CONTRACTOR SHALL HOLD A PRE-INSTALLATION COORDINATION MEETING FOR ALL ELECTRICAL/TECHNOLOGY ELEMENTS EXPOSED TO VIEW PRIOR TO ORDER & INSTALLATION OF ASSOCIATED FIXTURES/DEVICES.

WHERE FIXTURES ARE SURFACE-MOUNTED OR RECESSED WITHIN ACOUSTICAL CEILING TILE CEILINGS, CENTER FIXTURES/DEVICES WITHIN CEILING TILE, TYPICAL

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PHASE: CD
SHEET NAME: CEILING PLAN

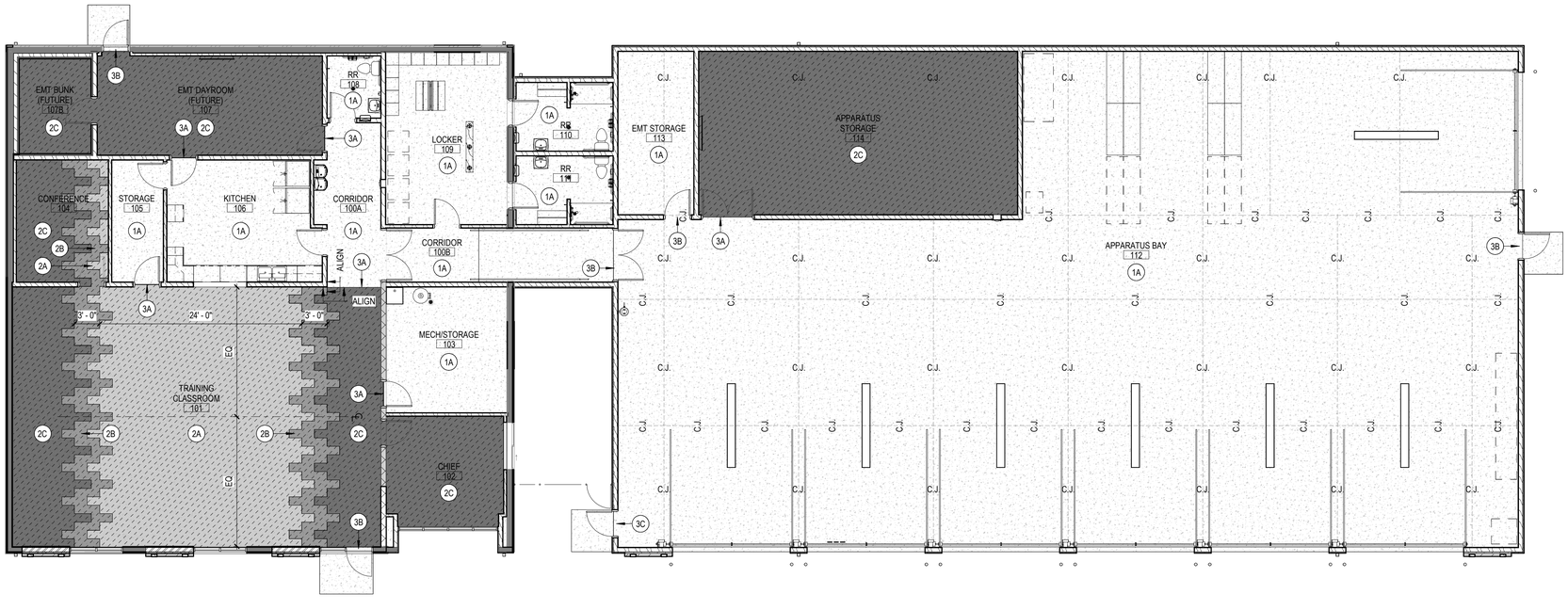
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FINISH LEGEND

CODE	DESCRIPTION	MANUFACTURER	STYLE	COLORWAY	SIZE	INSTALL PATTERN	NOTES
ACT1	ACOUSTIC CEILING TILE	ARMSTRONG	OPTIMA 3254	WHITE	24" X 24", 24" X 48"	-	SEE CEILING PLANS FOR GRID LAYOUTS
ACT2	ACOUSTIC CEILING TILE	ARMSTRONG	CERMAGUARD 605	WHITE	24" X 24"	-	SEE CEILING PLANS FOR GRID LAYOUTS
ALUM-SF	ALUMINUM - STOREFRONT	MANKO WINDOW SYSTEMS	-	CLEAR ANODIZED	4"	-	SEE OPENINGS
BRK	BRICK, VENEER	BOWERSTON	AUTUMN CLEAR VERTICAL MATT	BROWN	STANDARD, 3 5/8" X 7 5/8"	RUNNING BOND	SEE EXTERIOR ELEVATIONS AND BRICK DETAILS
CPT-1	CARPET TILE - FIELD & OFFICES	MOHAWK	NUTOPIA 2.0, URBAN FRINGE II	867 UPTOWN	12" X 36"	MULTI-COLOR STAGGER	SEE FINISH PLANS FOR COLORWAY TRANSITIONS
CPT-2	CARPET TILE - TRANSITION	MOHAWK	NUTOPIA 2.0, URBAN PASSAGE II	867 UPTOWN	12" X 36"	MULTI-COLOR STAGGER	SEE FINISH PLANS FOR COLORWAY TRANSITIONS
CPT-3	CARPET TILE - BORDER & CORRIDOR	MOHAWK	NUTOPIA 2.0, URBAN FIELD II	889 MUSEUM	12" X 36"	MULTI-COLOR STAGGER	SEE FINISH PLANS FOR COLORWAY TRANSITIONS
MLP	METAL LINER PANEL	BUTLER MANUFACTURING	MINI RIB	"BONE WHITE"	36" PANEL WIDTH	VERTICAL	
MRP	METAL ROOF PANEL	BUTLER MANUFACTURING	MR-24	"ASH GRAY"	36" PANEL WIDTH	-	SEE ROOF PLANS
MWP-1	METAL WALL PANEL - TYPE 1	BUTLER MANUFACTURING	MULTI-V	"ASH GRAY"	36" PANEL WIDTH	VERTICAL	
MWP-2	METAL WALL PANEL - TYPE 2	BUTLER MANUFACTURING	MULTI-V	"BRITE RED"	36" PANEL WIDTH	VERTICAL	
OTS	OPEN TO STRUCTURE	-	-	-	-	-	SEE CEILING PLANS, SEE ROOM FINISH SCHEDULE
PFIN-1	PRE-FINISHED METAL FASCIA	BUTLER MANUFACTURING	-	SEE EXTERIOR ELEVATIONS	-	-	MATCH SIDING METAL PANEL FINISH
PFIN-2	PRE-FINISHED METAL GUTTER & DS	BUTLER MANUFACTURING	-	SEE EXTERIOR ELEVATIONS	-	-	MATCH SIDING METAL PANEL FINISH
PT-1	PAINT - FIELD	SHERWIN WILLIAMS	SEE SPEC	SW7647 "CRUSHED ICE"	-	-	
PT-2	PAINT - ACCENT	SHERWIN WILLIAMS	SEE SPEC	TBD	-	-	
PT-3	PAINT - INTERIOR H.M. DOORS & FRAMES	SHERWIN WILLIAMS	SEE SPEC	MATCH ADJACENT WALL SURFACE	-	-	
PT-4	PAINT - EXTERIOR H.M. DOORS & FRAMES	SHERWIN WILLIAMS	SEE SPEC	SW9170 "ACIER"	-	-	
PT-BOL	PAINT - TRAFFIC BOLLARD	SHERWIN WILLIAMS	SEE SPEC	SW6861 "RADISH"	-	-	
PT-MWP	PAINT - EXISTING METAL WALL PANELS	SHERWIN WILLIAMS	SEE SPEC	SW9170 "ACIER"	-	-	
SC	SEALED CONCRETE FLOOR	-	PER SPECIFICATIONS	-	-	-	
VN-RD	VINYL ACCESSORY - REDUCER STRIP	MANNINGTON COMMERCIAL	IMPERIAL REDUCER	#29 "MOON ROCK"	-	-	SEE FINISH PLAN
VN-TR	VINYL ACCESSORY - TRANSITION STRIP	MANNINGTON COMMERCIAL	FUSION TRANSITION STRIP	#527 "CLAY"	-	-	SEE FINISH PLAN
VN-WB	VINYL ACCESSORY - WALL BASE	MANNINGTON COMMERCIAL	COVE WALL BASE	#29 "MOON ROCK"	4"	-	

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	WALL BASE	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	CEILINGS & BULKHEADS FINISH	COMMENTS
100A	CORRIDOR	SC	VN-WB	PT-1	PT-1	-	PT-1, PT-2	ACT1	
100B	CORRIDOR	SC	MLP	MLP	MLP	MLP	MLP	ACT1	
101	TRAINING CLASSROOM	CPT1-3, BLEND	VN-WB, MLP	MLP	PT-1	MLP	MLP	ACT1	SEE CEILING PLANS FOR LAYOUT AND TRANSITIONS
102	CHIEF	CPT3	VN-WB	PT-1	PT-1	-	PT-1	ACT1	
103	MECH/STORAGE	SC	MLP	MLP	MLP	MLP	PT-1	OTS	
104	CONFERENCE	CPT1-3, BLEND	VN-WB	PT-1	PT-1	PT-1	PT-1	ACT1	
105	STORAGE	SC	MLP	MLP	MLP	MLP	MLP	ACT1	
106	KITCHEN	SC	MLP	MLP	MLP	MLP	MLP	ACT1	
107	EMT DAYROOM (FUTURE)	CPT3	VN-WB	PT-1	PT-1	PT-1	PT-1	ACT1	
107B	EMT BUNK (FUTURE)	CPT3	VN-WB	PT-1	PT-1	PT-1	PT-1	ACT1	
108	RR	SC	VN-WB	PT-2	PT-1	PT-1	PT-1	ACT1	
109	LOCKER	SC	MLP	MLP	MLP	MLP	MLP	ACT1	
110	RR	SC	VN-WB	PT-1	PT-1	PT-1	PT-1	ACT2	
111	RR	SC	VN-WB	PT-1	PT-1	PT-1	PT-1	ACT2	
112	APPARATUS BAY	SC	MLP	MLP	MLP	MLP	MLP	MLP	SEE CEILING PLAN
113	EMT STORAGE	CPT3	MLP	MLP	MLP	MLP	MLP	MLP	
114	APPARATUS STORAGE	RB	MLP	MLP	PT-1	PT-1	PT-1	OTS	SEE CEILING PLAN



1 **FINISH PLAN**
1/8" = 1'-0"

GENERAL NOTES - FINISH PLANS & LEGENDS:

- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- STRIPS OF CARPET SHALL BE NO SMALLER THAN 18". NO SEAMS PERPENDICULAR TO WALLS ARE ALLOWED AT DOOR OPENINGS.
- FLOORING TRANSITIONS BETWEEN ROOMS SHALL OCCUR CENTERED TO DOOR LEAF, TYPICAL. VISIBLE PORTIONS OF FINISHES FROM ROOMS BEYOND WHEN THE DOOR IS CLOSED WILL BE REJECED.
- ALL TRANSITIONS BETWEEN LIKE MATERIALS SHALL BE SMOOTH. FLUSH PATCH EXISTING SUBSTRATES AS REQUIRED.
- PROVIDE THRESHOLDS, REDUCER STRIPS, AND ALL RELATED FLOOR ACCESSORIES AT TRANSITIONS BETWEEN FLOOR MATERIALS AND WHERE REQUIRED, TYPICAL. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- TRANSITIONS BETWEEN FLOOR MATERIALS / FLOOR COVERINGS (INCLUDING THRESHOLDS, REDUCER STRIPS, AND TRANSITION STRIPTS) SHALL NOT EXCEED 1/4" AS REQUIRED BY ADA.
- EPOXY PAINT TO BE USED AT ALL WET LOCATIONS; I.E. BATHROOMS OR WHERE IDENTIFIED ON THE PLANS. SEE SPECIFCATIONS.
- THE LABEL 'GWB' IS USED GENERICALLY IN THE FINISH SCHEDULE. REFERENCE WALL TYPES, SECTIONS, DETAILS, AND SPECIFICATION MANUAL FOR TYPES OF GWB TO BE USED.
- SEE FLOOR PLANS & STRUCTURAL FOR DIMENSIONS AT EXTERIOR STOOPS, TYPICAL

PEMB & PEWB FINISHES GENERAL NOTES:
- FINISH OF ALL TRIMS, FASTENERS, & OTHER ACCESSORIES ASSOCIATED WITH PEMB/PEWB SUPPLIER-PROVIDED METAL WALL, ROOF, & LINER PANELS SHALL BE FACTORY FINISHED TO MATCH ADJACENT PANEL COLOR U.N.O.
- ALL EXISTING STRUCTURAL PEMB MEMBERS EXPOSED TO VIEW SHALL BE PAINTED TO MATCH ADJACENT WALL FINISH. SEE SPECIFICATIONS.

EXISTING PEMB FINISHES GENERAL NOTES:
- PROTECT EXISTING METAL PANELS IDENTIFIED TO REMAIN THROUGHOUT THE DURATION OF THE PROJECT.
- SALVAGE AND PROTECT EXISTING METAL PANELS REMOVED DURING DEMOLITION THAT WILL BE RE-INSTALLED IN NEW LOCATIONS.

CONCRETE FLOOR SLAB GENERAL NOTES:
- CONTROL JOINT LAYOUT FOR EXPOSED, SEALED CONCRETE FLOORS IS SHOWN ON FINISH PLAN FOR DESIGN INTENT PURPOSES ONLY. PROVIDE ADDITIONAL SAW CUT (CJ) CONTROL JOINTS TO COMPLY WITH STRUCTURAL ENGINEER'S SPACING TABLE DEPENDENT ON SLAB ASSEMBLY THICKNESS. SEE STRUCTURAL.

KEYED NOTE LEGEND - FINISH PLANS (#)

1A SEALED CONCRETE (SC)
PROVIDE & INSTALL W/ CONTROL JOINTS (CJ) AS INDICATED ON THE FINISH PLAN. FINISH PER SPECIFICATIONS.

2A CARPET TILE (CPT1)
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED ADHESIVES & OTHER ACCESSORIES. SEE FINISH LEGEND & SPECIFICATIONS.

2B CARPET TILE (CPT2)
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED ADHESIVES & OTHER ACCESSORIES. SEE FINISH LEGEND & SPECIFICATIONS.

2C CARPET TILE (CPT3)
PROVIDE & INSTALL INCLUDING ALL ASSOCIATED ADHESIVES & OTHER ACCESSORIES. SEE FINISH LEGEND & SPECIFICATIONS.

3A VINYL REDUCER STRIP (SCOPE VARIES)
PROVIDE & INSTALL COMPATIBLE REDUCER WITH PROVIDED CARPET TILE AT THE LOCATIONS INDICATED.
SEE FINISH LEGEND & SPECIFICATIONS.

3B ALUMINUM THRESHOLD
PROVIDE & INSTALL AT THE LOCATIONS INDICATED INCLUDING ALL ASSOCIATED NAILERS, MOUNTING HARDWARE & OTHER ACCESSORIES.
SEE DOOR SCHEDULE & SPECIFICATIONS.

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PROJECT: SCFD - RENOVATION & ADDITION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE & EMS

PRINT DATE: 2025-12-18
PHASE: CD
SHEET NAME: FINISH PLAN & SCHEDULE

A9.1

MECHANICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT

SHEET METAL

- SQUARE CEILING DIFFUSER WITH ROUND NECK
- SQUARE CEILING RETURN AIR GRILLE
- SQUARE CEILING EXHAUST OR RELIEF AIR GRILLE
- LINEAR SLOT DIFFUSER
- FLOOR REGISTER OR GRILLE
- SIDEWALL REGISTER OR GRILLE
- FLEX DUCT
- 18x12 — DUCT SIZE: HORIZONTAL (IN PLANE) WIDTH x VERTICAL (OUT OF PLANE) HEIGHT (NET OUTSIDE SHEET METAL DIMENSION)
- RECTANGULAR ELBOW WITH TURNING VANES
- CONCENTRIC DUCT REDUCER
- ECCENTRIC DUCT REDUCER
- EXISTING DUCTWORK TO BE REMOVED
- EXISTING DUCTWORK TO REMAIN
- SUPPLY AIR DUCT SECTION UP OR TOWARDS
- RETURN AIR DUCT SECTION UP OR TOWARDS
- EXHAUST AIR DUCT SECTION UP OR TOWARDS
- OUTSIDE AIR DUCT SECTION UP OR TOWARDS
- SUPPLY AIR DUCT SECTION DOWN OR AWAY
- RETURN AIR DUCT SECTION DOWN OR AWAY
- EXHAUST AIR DUCT SECTION DOWN OR AWAY
- OUTSIDE AIR DUCT SECTION DOWN OR AWAY
- DIRECTIONAL FLOW ARROW
- ??? — HORIZONTAL DAMPER; FSD = FIRE/SMOKE DAMPER, FD = FIRE DAMPER, SD = SMOKE DAMPER, CD = CONTROL DAMPER
- VOLUME CONTROL DAMPER
- GRILLE/DIFFUSER TAG WITH TYPE NUMBER AND CFM QUANTITY; S = SUPPLY, R = RETURN, E = EXHAUST
- GRILLE/DIFFUSER TAG WITH TYPE NUMBER AND CFM QUANTITY; S = SUPPLY, R = RETURN, E = EXHAUST
- VAV ? — VARIABLE AIR VOLUME (VAV) BOX WITH TYPE NUMBER
- T — THERMOSTAT
- H — HUMIDISTAT
- CO2 — CARBON DIOXIDE SENSOR
- NOx — NITROGEN OXIDE SENSOR
- CO — CARBON MONOXIDE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- DUCT RISE
- DUCT DROP
- FLEXIBLE DUCT CONNECTOR
- CONED TAKEOFF WITH DAMPER

TEMPERATURE CONTROLS

- BDD — BACKDRAFT DAMPER
- MOTORIZED CONTROL DAMPER
- AIR FLOW MEASURING STATION
- LP — LOW PRESSURE CUTOFF
- HP — HIGH PRESSURE CUTOFF
- SP — STATIC PRESSURE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- LT — LOW TEMPERATURE CUTOFF
- T — DUCT TEMPERATURE SENSOR
- PIPE TEMPERATURE SENSOR
- CURRENT SENSOR
- RH — RELATIVE HUMIDITY SENSOR
- FILTER
- FAN

PLUMBING

- DOMESTIC COLD WATER LINE - CW
- DOMESTIC HOT WATER LINE - HW
- DOMESTIC HOT WATER CIRCULATING LINE - HWC
- TW — TEMPERED WATER LINE
- SCW — SOFT COLD WATER LINE
- SHW — SOFT HOT WATER LINE
- SS — SANITARY SEWER LINE
- GSS — GREASE SANITARY SEWER LINE
- ST — STORM SEWER LINE
- OFD — STORM SEWER OVERFLOW LINE
- AW — ACID WASTE LINE
- V — PLUMBING VENT LINE
- AV — ACID PLUMBING VENT LINE
- CD — CONDENSATE DRAIN LINE
- G — NATURAL GAS LINE
- LP — LIQUEFIED PETROLEUM GAS LINE
- RL — REFRIGERANT LIQUID LINE
- RS — REFRIGERANT SUCTION LINE
- HG — REFRIGERANT HOT GAS BYPASS LINE
- PD — PUMPED DISCHARGE LINE
- WW — WELL WATER LINE
- CO — CLEANOUT IN FLOOR
- CO — CLEANOUT AT OR ABOVE CEILING
- CO — CLEANOUT IN WALL
- SHOWERHEAD
- FLOOR DRAIN
- ROOF DRAIN
- S:2 — PLUMBING FIXTURE (SINK) ON ASSOCIATED LEVEL
- S — PLUMBING FIXTURE (SINK) ON LEVEL ABOVE

PIPING SPECIALTIES

- PIPE RISER
- PIPE DROP
- UNION
- PIPE CAP
- BFP — BACKFLOW PREVENTER
- FLEXIBLE PIPE CONNECTOR
- FT — FLOAT & THERMOSTATIC TRAP
- THERMOSTATIC TRAP
- STRAINER
- STRAINER W/DRAIN VALVE
- V — AIR VENT
- PRESSURE GAUGE
- EXPANSION JOINT
- GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- LUBRICATED PLUG VALVE
- GATE VALVE
- 3WAY CONTROL VALVE
- 2WAY CONTROL VALVE
- CALIBRATED BALANCE VALVE
- AUTOMATIC FLOW LIMITING VALVE
- VENTURI FLOW MEASURING STATION
- VENTURI FLOW BALANCING STATION
- CHECK VALVE
- GLOBE BALANCING VALVE
- TRIPLE DUTY VALVE
- HB — HOSE BIBB
- WH — WALL HYDRANT
- THERMOMETER
- TEMPERATURE WELL
- P/T PORT
- CURB STOP
- PTV — SPRINKLER POST INDICATOR VALVE
- PRESSURE REDUCING VALVE
- SIGHT FLOW INDICATOR

MISCELLANEOUS

- EXISTING LINE TO REMAIN
- EXISTING LINE TO BE REMOVED (ON DEMOLITION PLANS)
- POINT OF NEW CONNECTION
- DEMOLISH TO THIS POINT AND PREPARE FOR NEW CONNECTION
- DEMOLISH TO THIS POINT AND CAP
- EX — EXISTING TO REMAIN
- ER — EXISTING TO BE REMOVED
- EXR — EXISTING TO BE RELOCATED

ELECTRICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT

WIRING DEVICES

- DUPLEX WALL RECEPTACLE
- DUPLEX RECEPTACLE ON BACKUP POWER
- DUPLEX WALL RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED
- DUPLEX WALL RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED ON BACKUP POWER
- GFI — DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
- T — DUPLEX TAMPER-RESISTANT RECEPTACLE
- WP GFI — DUPLEX WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH COVER
- U — DUPLEX RECEPTACLE WITH USB CHARGER PORT
- H — DUPLEX RECEPTACLE INSTALLED HORIZONTALLY
- QUADRUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE ON BACKUP POWER
- QUADRUPLEX RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED
- QUADRUPLEX RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED ON BACKUP POWER
- SIMPLEX WALL RECEPTACLE, VERIFY POWER NEEDS
- SIMPLEX WALL RECEPTACLE, ON BACKUP POWER
- DUPLEX CEILING RECEPTACLE
- J — JUNCTION BOX
- WIREMOLD/PLUGMOLD W/ENTRANCE FITTING AS SPECIFIED AND RECEPTACLES & DEVICES AS INDICATED
- 208V WALL RECEPTACLE, VERIFY POWER NEEDS
- 208V WALL RECEPTACLE ON BACKUP POWER
- H — HAND DRYER (BY OTHERS)
- F — AUTOMATIC FAUCET/VALVE
- EPO — EMERGENCY PUSH BUTTON (GENERATORS/BOILERS)
- ADA PUSH BUTTON (BY OTHERS)

EQUIPMENT WIRING

- DISCONNECTING MEANS
- WP — WEATHERPROOF DISCONNECTING MEANS
- F — FUSED DISCONNECTING MEANS
- MS — MOTOR STARTER - REFER TO SPECIFICATIONS 26 28 16, AUTOMATIC CONTROLLERS
- $HS — MOTOR RATED SWITCH
- VFD — VARIABLE FREQUENCY DRIVE W/INTEGRAL DISCONNECT

SWITCHES - LOW VOLTAGE (DIGITAL)

(REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION)

- W — WALL SWITCH/STATION
- S — OCCUPANCY SENSOR WALL SWITCH
- S — CEILING MOUNT OCCUPANCY SENSOR
- PC — EXTERIOR PHOTOCELL

SWITCHES - LINE VOLTAGE (120/277V)

(REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION)

- $ — SINGLE POLE
- $3 — 3-WAY SWITCH
- $4 — 4-WAY SWITCH
- $F — CEILING FAN CONTROL
- S — OCCUPANCY SENSOR WALL SWITCH
- S — CEILING MOUNT OCCUPANCY SENSOR

DISTRIBUTION

- SURFACE-MOUNT PANEL
- FLUSH-MOUNT PANEL
- TRANSFORMER
- C/T CABINET
- M — METER

COMMUNICATIONS SYSTEMS

- # — DATA OUTLET IN WALL W/ # OF JACKS
- # — DATA OUTLET ABOVE COUNTER BACKSPLASH W/ # OF JACKS
- DATA OUTLET IN CEILING
- WAP — WIRELESS ACCESS POINT
- WALL HORN INDICATOR
- S — CEILING SPEAKER
- AV — AUDIO VISUAL OUTLET IN WALL
- AV — AUDIO VISUAL OUTLET IN FLOOR
- C — CLOCK LOCATION
- DB — CLOCK LOCATION - DOUBLE FACE

FIRE ALARM & DETECTION

- DUCT SMOKE DETECTOR
- SMOKE DETECTOR - CEILING MOUNTED
- S — SMOKE DETECTOR WITH SOUNDER BASE
- CO — COMBINATION SMOKE/CO DETECTOR
- HEAT DETECTOR
- F — FIRE ALARM PULL STATION
- FIRE ALARM HORN/STROBE - WALL MOUNTED
- FIRE ALARM HORN/STROBE - CEILING MOUNTED
- FIRE ALARM STROBE LIGHT - WALL MOUNTED
- FIRE ALARM STROBE LIGHT - CEILING MOUNTED
- R — FIRE ALARM RELAY
- DH — FIRE ALARM HOLD OPEN CONNECTION
- FSD — FIRE/SMOKE DAMPER CONNECTION
- TS — SPRINKLER TAMPER SWITCH MONITORING
- FS — SPRINKLER FLOW SWITCH MONITORING
- PIV — POST INDICATOR VALVE MONITORING
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- RTS — REMOTE TEST SWITCH
- MM — MONITOR MODULE

LUMINAIRES

- 2'x2' RECESSED TROFFER/PANEL FIXTURE W/TYPE NUMBER
- 2'x4' RECESSED TROFFER/PANEL FIXTURE W/TYPE NUMBER
- SURFACE/SUSPEND/WALL MOUNT LINEAR FIXTURE W/TYPE NUMBER
- RECESSED DOWNLIGHT FIXTURE W/TYPE NUMBER
- WALL MOUNT FIXTURE W/TYPE NUMBER
- ROUND HIGH BAY FIXTURE W/TYPE NUMBER
- CEILING FAN W/TYPE NUMBER

EXIT & EMERGENCY

- SINGLE FACE CEILING MOUNTED EXIT SIGN W/ILLUMINATED FACE AND DIRECTION
- DOUBLE FACE CEILING MOUNTED EXIT SIGN W/ILLUMINATED FACE(S) AND DIRECTION INDICATED
- WALL MOUNTED EXIT SIGN W/DIRECTION INDICATED
- EDGE MOUNTED EXIT SIGN W/ILLUMINATED FACE(S) AND DIRECTION INDICATED
- EMERGENCY BATTERY PACK
- WALL MOUNT FIXTURE CONTAINING EMERGENCY BACKUP BATTERY W/ TYPE

ACCESS CONTROL

- DC — DOOR CONTACT - BY OWNER OR OWNER'S CONTRACTOR
- CR — PROXIMITY CARD READER - BY OWNER OR OWNER'S CONTRACTOR
- CH — MULLION MOUNT CARD READER - BY OWNER OR OWNER'S CONTRACTOR
- RX — REQUEST TO EXIT (WALL OR CEILING MOUNTED)
- PTE — PUSH TO EXIT (WALL BUTTON)
- SECURITY CAMERA - BY OWNER OR OWNER'S CONTRACTOR

MISCELLANEOUS

- EX — EXISTING - TO REMAIN
- EXR — EXISTING - TO BE RELOCATED
- ER — EXISTING - TO BE REMOVED
- CONDUIT
- SWITCH-LEG IN CONDUIT
- UC — UNDER GROUND CONDUIT
- EC — EMPTY CONDUIT
- POINT OF NEW CONNECTION
- DEMOLISH TO THIS POINT AND PREPARE FOR NEW CONNECTION
- DEMOLISH TO THIS POINT AND CAP
- WP — WEATHERPROOF
- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISH GRADE
- WM — DEVICE ON WIREMOLD
- WG — WIRE GUARD
- [FS] — FIRE STOP
- [- EZ -] — PASS-THROUGH
- AC — ABOVE CEILING

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PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET, STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025

PHASE: CD
SHEET NAME: MEPT COVER SHEET

ME0.0

SHEET INDEX

SHEET NUMBER	SHEET NAME
ME0.0	MEPT COVER SHEET
ME1.1	ROOF PLAN
F1.1	FIRE PROTECTION PLAN
F5.1	FIRE PROTECTION DETAILS
PD1.1	PIPING DEMOLITION PLAN
P1.0	PIPING UNDERFLOOR PLAN
P1.1	PIPING PLAN
P5.1	PIPING DETAILS
P5.2	PIPING DETAILS
P6.1	PLUMBING SCHEDULES
MD1.1	MECHANICAL DEMOLITION PLAN
M1.1	MECHANICAL PLAN
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T1.1	LOW VOLTAGE PLAN
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T5.1	LOW VOLTAGE DETAILS
T5.2	LOW VOLTAGE DETAILS

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. My license renewal date is December 31, 2026.

Holly Stevens — Date

Pages or sheets covered by this seal:
Specification Div.: 21, 22, 23, 26, 27, 28
Drawings: AS NOTED IN SHEET INDEX ON ME0.0

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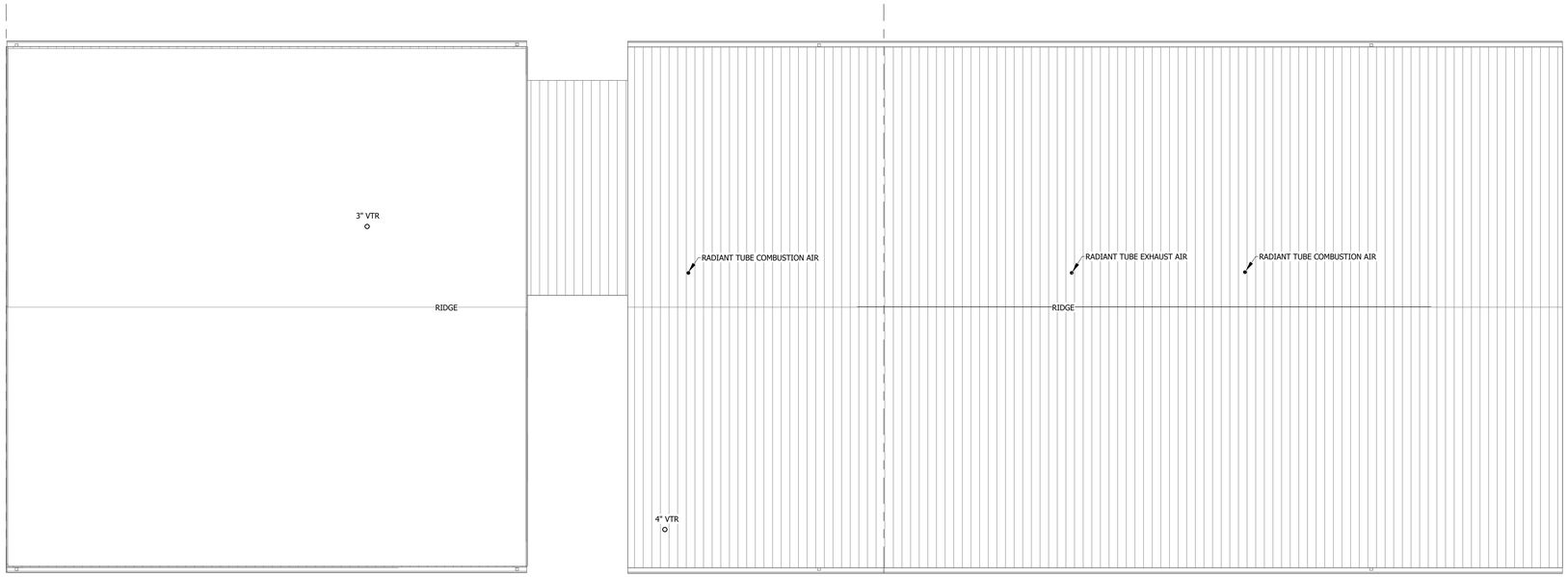
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118 EAST COLLEGE ST. IOWA CITY, IOWA (319)248-4600

GENERAL NOTES:

A. LAYOUT AND ROUTING SHOWN IS DIAGRAMMATIC AND SCHEMATIC IN NATURE. NOT ALL OFFSETS MAY BE SHOWN. CONTRACTOR SHALL VERIFY EXACT ROUTING REQUIRED AND NUMBER OF OFFSETS AND TRANSITIONS.

B. ALL ROOFTOP PENETRATIONS SHALL OCCUR NORTH OF ROOF RIDGE LINE. PROVIDE & INSTALL BOOT FLASHING AND OTHER ASSOCIATED ACCESSORIES AS REQUIRED FOR PROPER OPERATION AND INSTALLATION. **PAINT ALL PIPE PENETRATIONS TO MATCH FINISH OF METAL ROOF PANELS.**

C. DESIGN INTENT SHALL BE ALL MECHANICAL, ELECTRICAL, & PLUMBING RUNS WITHIN NEW ADMIN AREA, LOCKER ROOM & RESTROOMS SHALL BE RUN WITHIN NEW WALL ASSEMBLIES, ABOVE FINISH CEILING ASSEMBLIES OR TIGHT TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE ANY EXPOSED ROUTING WITHIN THESE SPACES WITH ARCHITECT & ENGINEER PRIOR TO FABRICATION & INSTALLATION.



N

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

23-006 STATE CENTER FIRE STATION

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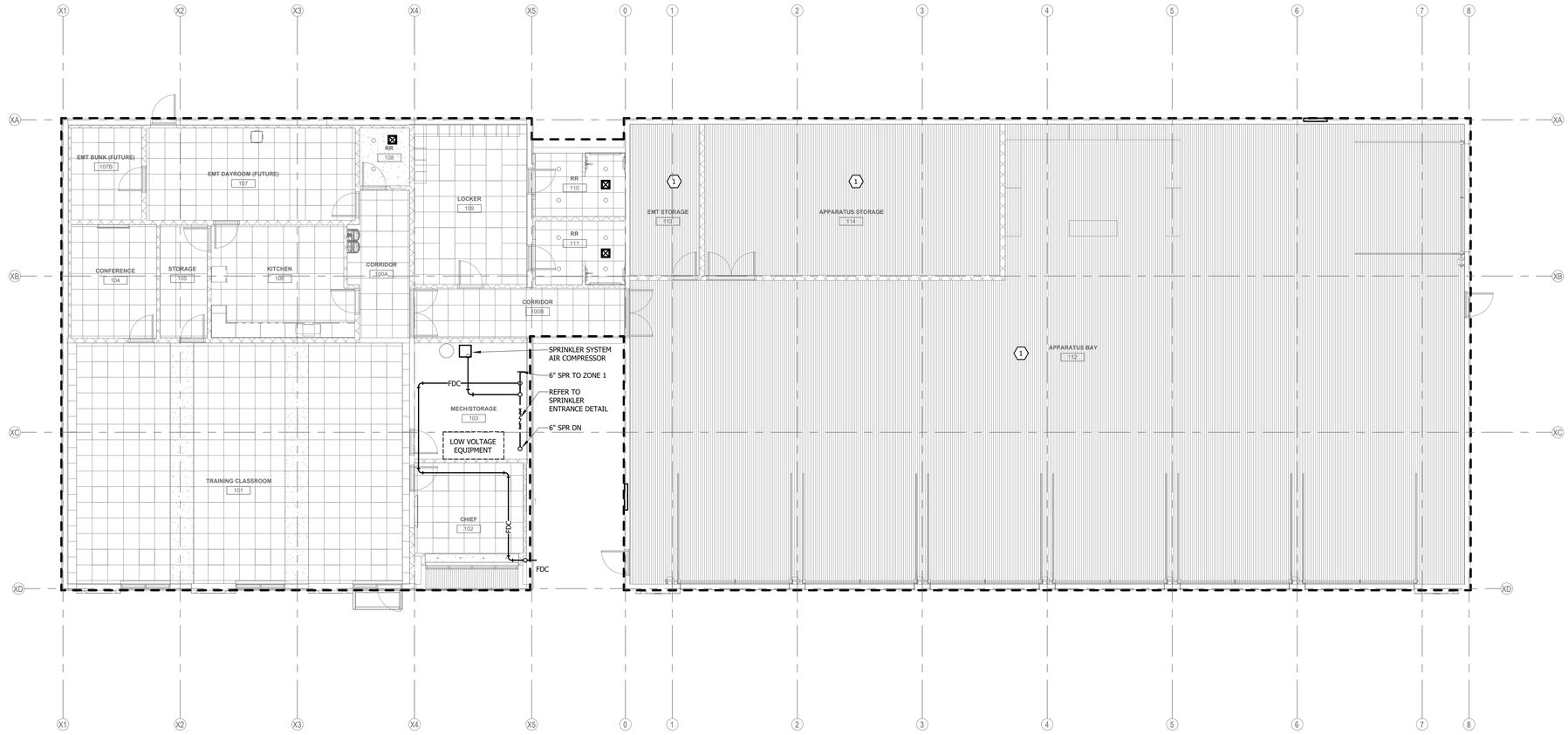
STUDIO MELEE
139 4th STREET
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PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PHASE: CD
PRINT DATE: 12.18.2025
SHEET NAME: ROOF PLAN

ME1.1

SPRINKLER ZONE SCHEDULE				
ZONE NUMBER	ZONE DESCRIPTION	ZONE TYPE	OCCUPANCY CLASSIFICATION	AREA (SF)
1	APPARATUS BAY & OFFICES	DRY	VARIES	10,000



N

1 FIRE PROTECTION PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. SPRINKLER SYSTEMS SHALL BE DESIGNED TO 100% COVERAGE BY NFPA-13 AND OTHER APPLICABLE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL NUMBER OF HEADS AND HEAD SPACING REQUIRED TO PROTECT THE AREA IN ACCORDANCE WITH NFPA REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION. USE RETURN BENDS TO LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES.

B. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE ROUTING. CONTRACTOR SHALL FIELD ROUTE PIPING THROUGH THE (EXISTING) BUILDING TO AVOID INTERFERENCE'S WITH (EXISTING) STRUCTURE, EQUIPMENT, DUCTWORK, PIPING, LIGHTING, AND CONDUIT. CONCEAL PIPING WHERE POSSIBLE.

C. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, AND FIRE-STOPPING OF (EXISTING) WALLS, FLOORS AND CEILINGS NECESSARY FOR THE INSTALLATION OF WORK UNLESS NOTED OTHERWISE. ALL PENETRATIONS THRU RATED WALLS, FLOORS, AND CEILING SHALL BE FIRE-STOPPED/WATER-PROOFED TO MATCH THE RATING OF THE WALL, FLOOR, AND/OR CEILING.

D. ALL SPRINKLER PIPING SHALL BE INSTALLED SUCH THAT THE SYSTEM WILL COMPLETELY DRAIN BACK TO MAIN. IF A SECTION OF PIPING CANNOT BE SLOPED BACK TO MAIN, AN AUXILIARY DRAIN VALVE WITH PERMANENT LABEL AND HOSE THREAD CONNECTION MUST BE INSTALLED BY THIS CONTRACTOR. ALL AUXILIARY DRAINS SHOULD BE CONCEALED FROM THE OCCUPIED SPACE.

E. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS ON OTHER SHEETS FOR ADDITIONAL INFORMATION ON CONSTRUCTION AND COORDINATION NEEDS OF OTHER TRADES.

F. SPRINKLER SYSTEM SHALL BE EXTENDED TO SERVE MECHANICAL MEZZANINES AND CANOPIES AS REQUIRED BY CODE.

G. COORDINATE SPRINKLER HEAD LOCATIONS WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO AVOID POSSIBLE CONFLICTS.

H. SPRINKLER CONTRACTOR SHALL USE CONCEALED HEADS IN ALL FINISHED SPACES AND EXPOSED HEADS IN OPEN CEILING SPACES. REFER TO SPECIFICATIONS FOR SECURITY CAGE LOCATIONS.

I. ROUTE MAINS AND BRANCH PIPING ABOVE BOTTOM OF JOISTS WHEN PARALLEL TO JOISTS AND THROUGH JOISTS WHEN THEY RUN PERPENDICULAR TO JOISTS.

J. COORDINATE PIPING ROUTING WITH OTHER TRADES. INSTALL NEW SYSTEM. PROVIDE HYDRAULIC CALCULATIONS OF FULL SYSTEM DESIGN.

K. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.

REFERENCED NOTES:

1. SPRINKLE ATTIC SPACE. REFER TO ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR ADDITIONAL CEILING AND STRUCTURAL INFORMATION.

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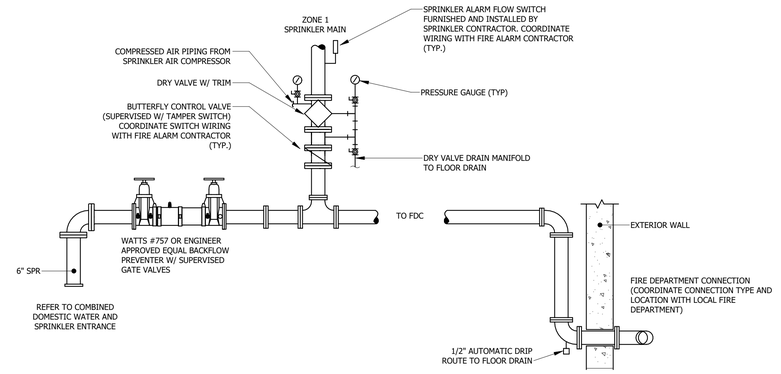
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PROJECT: STATE CENTER FIRE STATION
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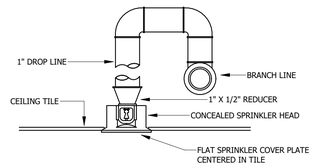
PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: FIRE PROTECTION PLAN

F1.1

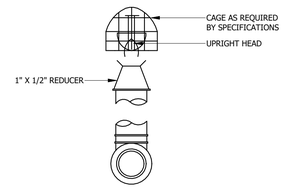
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1 SPRINKLER ENTRANCE DETAIL
No Scale



2 CONCEALED SPRINKLER HEAD DETAIL
No Scale



3 UPRIGHT SPRINKLER HEAD DETAIL
No Scale

SPRINKLER ZONE SCHEDULE				
ZONE NUMBER	ZONE DESCRIPTION	ZONE TYPE	OCCUPANCY CLASSIFICATION	AREA (SF)
1	APPARATUS BAY & OFFICES	DRY	VARIES	10,000

MODUS
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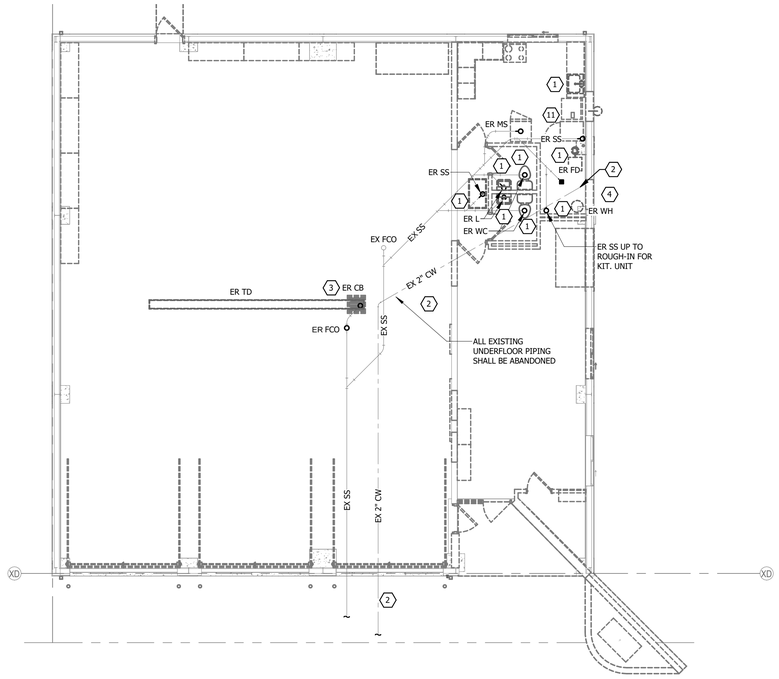
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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

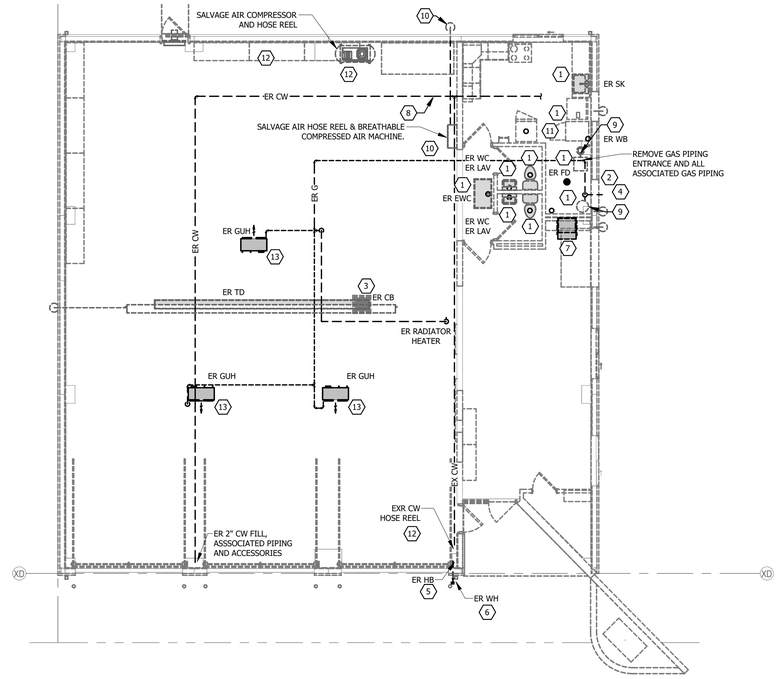
PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: FIRE PROTECTION DETAILS

F5.1



N

1 PLUMBING UNDERFLOOR DEMOLITION PLAN
1/8" = 1'-0"



N

2 PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

B. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.

C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

D. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

E. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.

F. EXISTING PLUMBING SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

G. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

H. ALL EXTERIOR FREE-STANDING PLUMBING DEVICES SHALL BE REMOVED UNDER BASE BID UNLESS OTHERWISE NOTED. PATCH OPENING TO MATCH SURROUNDING SURFACES.

DEMOLITION REFERENCED NOTES: (#)

1. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING ABOVE FLOOR. REMOVE PIPING ABOVE THE FLOOR, DRAIN, AND CAP ASSOCIATED PIPING BELOW THE FLOOR. REMOVE EXTENTS OF SUBSLAB PIPING EXPOSED BY PANEL AND PATCHWORK. ALL OTHER BELOW SLAB PIPING TO BE ABANDONED IN PLACE. REFER TO ARCHITECTURAL DRAWINGS.
2. CUT, CAP AND ABANDON EXISTING WATER PIPING BELOW FLOOR. CAP BELOW FLOOR AFTER PIPING IS BLOWN OUT TO REMOVE ALL WATER AND COMPLETELY DISCONNECTED FROM LIVE WATER MAIN.
3. REMOVE EXISTING TRENCH DRAIN AND CATCH BASIN GRATES. PLUG SANITARY PIPING AND ABANDON IN PLACE. PATCH FLOOR TO MATCH EXISTING. REFER TO ARCHITECTURAL DRAWINGS.
4. GAS PIPING SHALL BE REMOVED FROM ALL AREAS AND BELOW NEW BUILDING. GAS PIPING ENTRANCE SHALL BE REMOVED BACK TO MAIN. REFER CIVIL SITE UTILITY DRAWINGS.
5. REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING, HANGERS, SUPPORTS, AND ACCESSORIES.
6. REMOVE EXISTING WALL HYDRANT AND ASSOCIATED PIPING, HANGERS, SUPPORTS, AND ACCESSORIES.
7. REMOVE EXISTING GAS, ACCESSORIES, AND CONDENSATE PIPING TO FURNACE ON MEZZANINE.
8. REMOVE WATER PIPING AND ASSOCIATED INSULATION, ACCESSORIES, HANGERS, AND SUPPORTS.
9. REMOVE EXISTING WATER HEATER, WATER SOFTENER, AND ALL ASSOCIATED PIPING AND ACCESSORIES. PROTECT AND SALVAGE EQUIPMENT TO OWNER.
10. REMOVE, PROTECT, AND SALVAGE THE EXTERIOR 90° ELBOW INLET FOR THE BREATHABLE COMPRESSED AIR MACHINE TO OWNER. THE REMAINDER OF 2" PVC PIPING BACK TO THE MACHINE CAN BE REMOVED AND DISCARDED. SALVAGE AND TURN OVER EXISTING HOSE REEL TO OWNER. EXISTING TANK FILL EQUIPMENT TO BE SALVAGED TO OWNER.
11. REMOVE AND PROTECT EXISTING WASHER AND DRYER FOR REINSTALLATION AT NEW LOCATION.
12. REMOVE WATER HOSE REEL ASSEMBLY AND SALVAGE TO OWNER.
13. REMOVE EXISTING EQUIPMENT AND ASSOCIATED GAS PIPING, WIRING, CONDUIT, AND CONTROLS.

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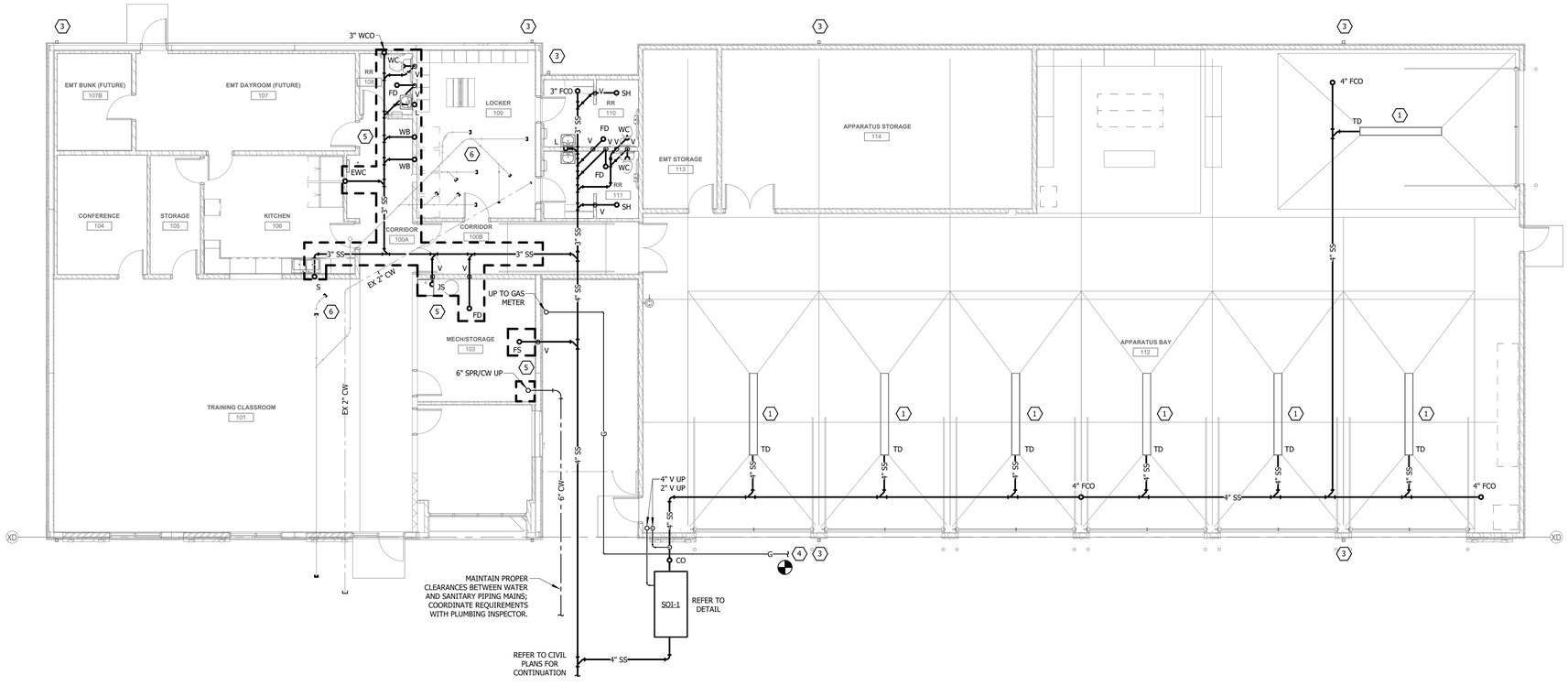
STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: PIPING DEMOLITION PLAN

PD1.1

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118 EAST COLLEGE ST. IOWA CITY, IOWA (319)248-4600



1 PLUMBING UNDERFLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. INSTALLATION PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR TO VERIFY PLACEMENT OF NEW EQUIPMENT/FIXTURES PRIOR TO INSTALLATION.

B. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL EQUIPMENT AND ABOVE ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING IN CLEARANCE SPACE.

C. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH FOOTINGS, FLOW LINES, LOCAL PLUMBING CODE AND THE SPECIFICATIONS.

D. VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

E. COORDINATE ALL PLUMBING AND PIPING ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCES AND FLOW REQUIREMENTS.

F. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" COPPER WITH INSULATION UNLESS NOTED OTHERWISE. WHITE IN APPARATUS BAY AND BLACK IN ADMIN ADDITION.

G. COORDINATE ALL VENTS THROUGH ROOF WITH STRUCTURAL DRAWINGS AND MAINTAIN 10FT REQUIRED DISTANCE FROM MECHANICAL EQUIPMENT INTAKES. OFFSET PIPING AS NECESSARY.

H. COORDINATE ALL EXPOSED PIPE ROUTING WITH DESIGN TEAM PRIOR TO ROUGH-IN. SPECIFIC RACKING REQUIREMENTS MAY BE REQUIRED.

I. COORDINATE ALL FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT AND RESPECTIVE TRADES PRIOR TO ROUGH-IN.

J. COORDINATE STORM AND SANITARY SEWER CONNECTIONS WITH STRUCTURAL & CIVIL DRAWINGS TO MAINTAIN REQUIRED SLOPING AND PROPER ELEVATIONS.

K. SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR FIXTURE CONNECTION SIZES.

L. FIELD VERIFY ALL NEW AND EXISTING PIPE ROUTING WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN. MAKE NECESSARY OFFSETS AS REQUIRED.

M. COORDINATE ALL WALL CLEANOUT LOCATIONS WITH DESIGN TEAM PRIOR TO ROUGH-IN. COORDINATE ALL FLOOR CLEANOUT LOCATIONS BEING INSTALLED IN CARPET OR OTHER SPECIALTY FLOOR AREAS WITH DESIGN TEAM PRIOR TO ROUGH-IN.

O. PROVIDE ISOLATION BALL VALVES ON BRANCH PIPING TAPS FROM MAIN ON ALL COLD AND HOT WATER PIPES. ENSURE VALVES ARE INSTALLED IN ACCESSIBLE LOCATIONS.

P. PROVIDE A INSULATED PLUMBING VENT BOOT FLASHING IN LOCATIONS THRU THERMAL ENVELOPE.

Q. ALL ROOF PENETRATIONS TO OCCUR NORTH OF ROOF RIDGE OR THRU EXTERIOR WALLS. ANY PENETRATIONS NOT SHOWN ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH ARCHITECT & ENGINEER PRIOR TO INSTALLATION.

REFERENCED NOTES: (#)

1. NEW TRENCH DRAINS AND CATCH BASINS. REFER TO ARCHITECTURAL DOCUMENTS FOR MORE INFORMATION ON PROPOSED SLOPED FLOOR SLAB EXTENTS & PROPOSED TRENCH DRAIN RIM ELEVATIONS.
2. EXTEND 2" CW UNDERSLAB TO NEW METER AND BACKFLOW LOCATION.
3. COORDINATE STORM DOWNSPOUT PIPING WITH CIVIL SITE PLANS.
4. COORDINATE NEW GAS PIPE ROUTING WITH CIVIL SITE PLANS. CONNECT TO EXISTING GAS MAIN.
5. CUT AND PATCH EXISTING FLOOR SLAB TO MATCH EXISTING. REFER TO ALL BID DOCUMENTS FOR ADDITIONAL INFORMATION.
6. CAP EXISTING UNDERFLOOR PIPING BELOW FLOOR IN EXISTING BUILDING AFTER PIPING IS BLOWN OUT AND COMPLETELY DISCONNECTED FROM SYSTEM MAINS. PATCH CONCRETE TO MATCH EXISTING.

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	WASTE SIZE	VENT SIZE	WATER SIZE	
			HOT	COLD
WATER CLOSET (TANK)	3"	2"	-	3/4"
LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
SINK	1-1/2"	1-1/2"	1/2"	1/2"
JANITOR SINK	3"	1-1/2"	3/4"	3/4"
DRINKING FOUNTAIN	1-1/2"	1-1/2"	-	1/2"
SHOWER	2"	1-1/2"	3/4"	3/4"
WASHER BOX	2"	1-1/2"	1/2"	1/2"
TYPICAL WASTE STACK	4"	-	-	-
TYPICAL VENT STACK	-	3"	-	-

NOTES:
1. ALL SANITARY SEWER BELOW GRADE SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED.
2. ALL VENT BELOW GRADE SHALL BE A MINIMUM OF 2" UNLESS OTHERWISE NOTED.

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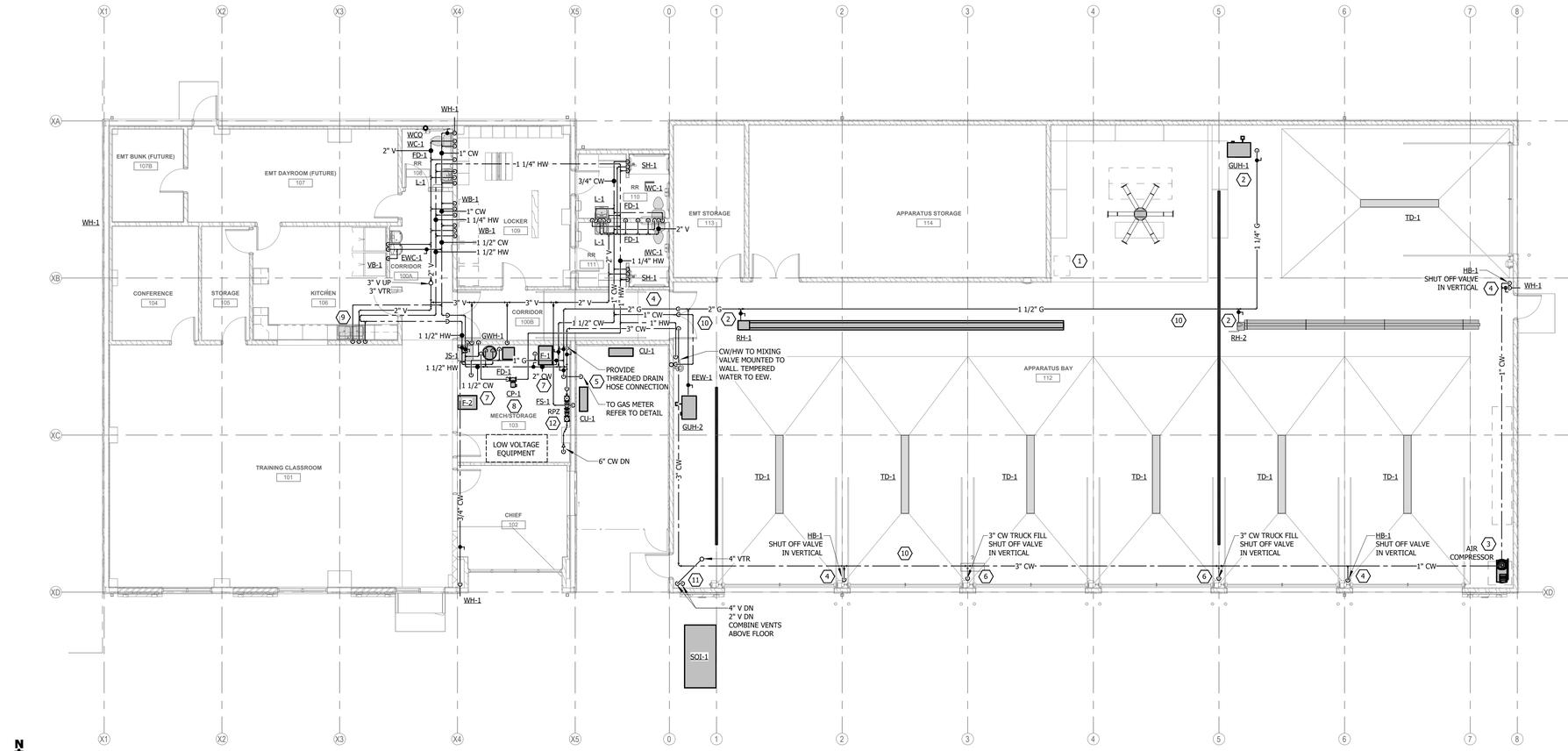
STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025

PHASE: CD
SHEET NAME: PIPING UNDERFLOOR PLAN

P1.0



1 PIPING PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. INSTALLATION PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR TO VERIFY PLACEMENT OF NEW EQUIPMENT/FIXTURES PRIOR TO INSTALLATION.

B. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL EQUIPMENT AND ABOVE ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING IN CLEARANCE SPACE.

C. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH FOOTINGS, FLOW LINES, LOCAL PLUMBING CODE AND THE SPECIFICATIONS.

D. VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

E. COORDINATE ALL PLUMBING AND PIPING ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCES AND FLOW REQUIREMENTS.

F. ALL CONDENSATE DRAIN PIPING SHALL BE 3/4" COPPER WITH INSULATION UNLESS NOTED OTHERWISE. WHITE IN APPARATUS BAY AND BLACK IN ADMIN ADDITION.

G. COORDINATE ALL VENTS THROUGH ROOF WITH STRUCTURAL DRAWINGS AND MAINTAIN 10FT REQUIRED DISTANCE FROM MECHANICAL EQUIPMENT INTAKES. OFFSET PIPING AS NECESSARY.

H. COORDINATE ALL EXPOSED PIPE ROUTING WITH DESIGN TEAM PRIOR TO ROUGH-IN. SPECIFIC RACKING REQUIREMENTS MAY BE REQUIRED.

I. COORDINATE ALL FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT AND RESPECTIVE TRADES PRIOR TO ROUGH-IN.

J. COORDINATE STORM AND SANITARY SEWER CONNECTIONS WITH STRUCTURAL & CIVIL DRAWINGS TO MAINTAIN REQUIRED SLOPING AND PROPER ELEVATIONS.

K. SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR FIXTURE CONNECTION SIZES.

L. FIELD VERIFY ALL NEW AND EXISTING PIPE ROUTING WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN. MAKE NECESSARY OFFSETS AS REQUIRED.

M. COORDINATE ALL WALL CLEANOUT LOCATIONS WITH DESIGN TEAM PRIOR TO ROUGH-IN. COORDINATE ALL FLOOR CLEANOUT LOCATIONS BEING INSTALLED IN CARPET OR OTHER SPECIALTY FLOOR AREAS WITH DESIGN TEAM PRIOR TO ROUGH-IN.

O. PROVIDE ISOLATION BALL VALVES ON BRANCH PIPING TAPS FROM MAIN ON ALL COLD AND HOT WATER PIPES. ENSURE VALVES ARE INSTALLED IN ACCESSIBLE LOCATIONS.

P. PROVIDE A INSULATED PLUMBING VENT BOOT FLASHING IN LOCATIONS THRU THERMAL ENVELOPE.

Q. ALL ROOF PENETRATIONS TO OCCUR NORTH OF ROOF RIDGE OR THRU EXTERIOR WALLS. ANY PENETRATIONS NOT SHOWN ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH ARCHITECT & ENGINEER PRIOR TO INSTALLATION.

REFERENCED NOTES: (#)

1. COORDINATE OWNER PROVIDED FILL TANK WITH OWNER PRIOR TO ROUGH-IN OF 2" PVC INTAKE TO EXTERIOR WITH 90° TERMINATION ELBOW.
2. PROVIDE SHUT OFF VALVE AND GAS PRESSURE REGULATOR (WHERE REQUIRED) TO HEATER. COORDINATE ACTUAL EQUIPMENT AND GAS CONNECTION LOCATION.
3. OWNER FURNISHED, OWNER INSTALLED AIR COMPRESSOR AND ASSOCIATED PIPING AND HOSE REEL.
4. PROVIDE ISOLATION VALVE IN VERTICAL PIPING FOR ACCESSIBILITY.
5. COORDINATE UNDERGROUND GAS PIPING AND GAS METER WITH ELECTRICAL UTILITIES. SEE CIVIL DRAWINGS FOR SITE GAS ROUTING.
6. PROVIDE 3" TRUCK FILL WITH AN ISOLATION VALVE IN VERTICAL. TERMINATE WITH A 2.5" NH/NST CONNECTION. OWNER SHALL FURNISH, CONTRACTOR SHALL INSTALL A SLOW CLOSE VALVE SIMILAR TO 2.5" NHF SWIVEL ROCKER INLET, 2.5" NMH RIGID OUTLET.
7. ROUTE CONDENSATE PIPING FROM FURNACE TO NEAREST FLOOR DRAIN.
8. REFER TO P5.2 PIPING DETAILS FOR SYSTEM PIPING SCHEMATICS.
9. ROUGH-IN SS, V, CW, HW PIPING TO FUTURE SINK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
10. ALL DOMESTIC COLD WATER AND GAS PIPING IN THE NEW ADDITION SHALL NOT BE LOCATED IN ATTIC AND SHALL BE EXPOSED BELOW METAL CEILING. REFER TO ARCHITECTURAL DOCUMENTS FOR PAINTING REQUIREMENTS.
11. PROVIDE CAST IRON VENT PIPING ABOVE FLOOR IN THIS AREA FOR DURABILITY.
12. PLUMBING CONTRACTOR SHALL COORDINATE STACKED DOMESTIC AND SPRINKLER ENTRANCE ON THIS WALL WITH SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN OF PIPING.

PLUMBING FIXTURE CONNECTION SCHEDULE

ITEM	WASTE SIZE	VENT SIZE	WATER SIZE	
			HOT	COLD
WATER CLOSET (TANK)	3"	2"	-	3/4"
LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
SINK	1-1/2"	1-1/2"	1/2"	1/2"
JANITOR SINK	3"	1-1/2"	3/4"	3/4"
DRINKING FOUNTAIN	1-1/2"	1-1/2"	-	1/2"
SHOWER	2"	1-1/2"	3/4"	3/4"
WASHER BOX	2"	1-1/2"	1/2"	1/2"
TYPICAL WASTE STACK	4"	-	-	-
TYPICAL VENT STACK	-	3"	-	-

NOTES:
1. ALL SANITARY SEWER BELOW GRADE SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED.
2. ALL VENT BELOW GRADE SHALL BE A MINIMUM OF 2" UNLESS OTHERWISE NOTED.

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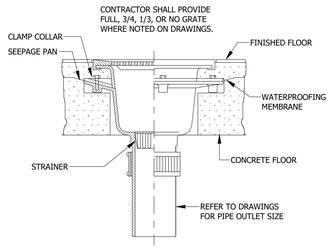
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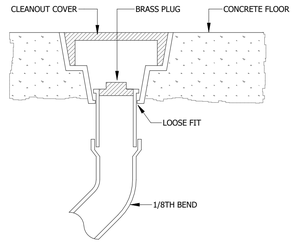
PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: PIPING PLAN

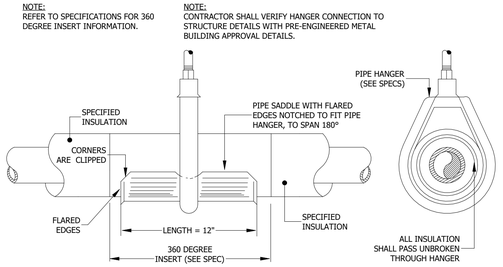
P1.1



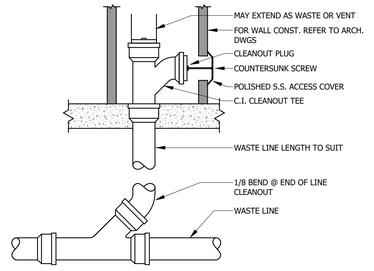
1 FLOOR SINK DETAIL
No Scale



2 FLOOR CLEANOUT DETAIL
No Scale

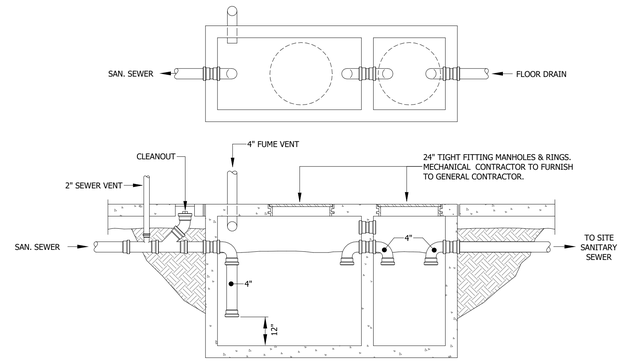


3 INSULATED PIPE HANGER DETAIL
No Scale



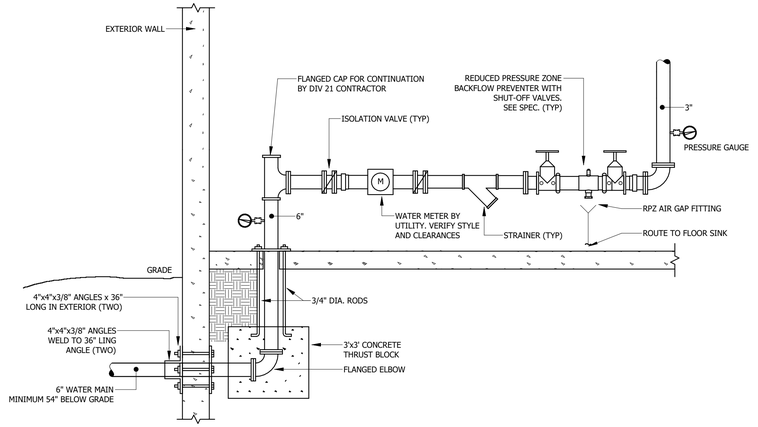
WALL CLEANOUT DETAIL (WCO)
NO SCALE

4 WALL CLEANOUT DETAIL1
No Scale



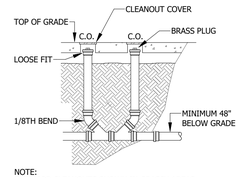
NOTE:
1. BEFORE RUNNING INTERIOR SEWERS & CONSTRUCTING INTERCEPTORS, CONRACTOR SHALL UNCOVER OUTFALL SEWER & DETERMINE GRADES TO BE MET.
2. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL HUBS IN WALL FOR PIPING AND VENTS. INTERCEPTOR CONCRETE WORK DONE BY GENERAL CONTRACTOR.
3. ALL CONCRETE INTERCEPTOR WALLS REINFOCED WITH #4 BARS - 8" O.C.
4. DIMENSIONS SHOWN ARE SUGGESTED ONLY. ALTERNATE DIMENSIONS FOR COMPARTMENS MAY BE USED TO MAINTAIN THE SAME PROPORTION PRE-BUILT INTERCEPTOR BY LISTING INDUSTIES IS AN APPROVED SUBSTITUTION.
5.

5 SAND/OIL INTERCEPTOR PLAN VIEW DETAIL - PRECAST CONCRETE TANK
No Scale



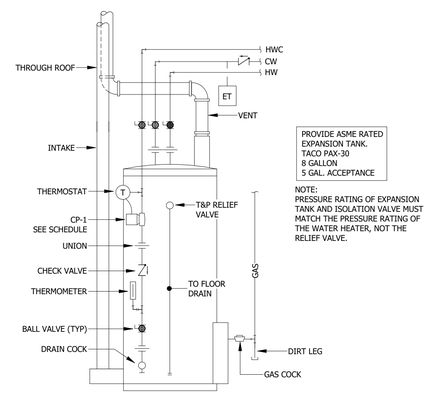
NOTE: SLEEVE ALL PIPING PASSING THROUGH WALLS, FOOTINGS, AND FLOORS. SLEEVES SHALL BE SEALED WITH "LINK SEAL" OR EQUIVALENT COMPRESSIBLE GASKET.

6 COMBINED DOMESTIC WATER AND SPRINKLER ENTRANCE
No Scale



NOTE:
EXTERIOR CLEANOUTS SHOWN IN GRASSY AREAS SHALL HAVE 24"X24"X4" CONCRETE PAD AROUND CLEANOUT. CONCRETE BY MECHANICAL CONTRACTOR.

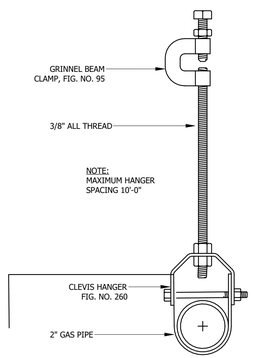
7 SIAMESE CLEANOUT DETAIL
No Scale



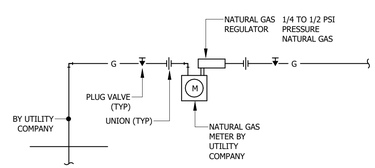
PROVIDE ASME RATED EXPANSION TANK.
TACO PAX-30
8 GALLON
5 GAL. ACCEPTANCE

NOTE:
PRESSURE RATING OF EXPANSION TANK AND ISOLATION VALVE MUST MATCH THE PRESSURE RATING OF THE WATER HEATER, NOT THE RELIEF VALVE.

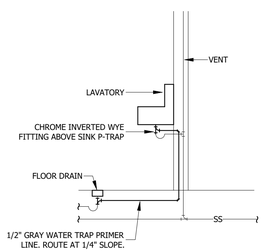
8 GAS WATER HEATER DETAIL
No Scale



9 GAS PIPE SUPPORT DETAIL
No Scale

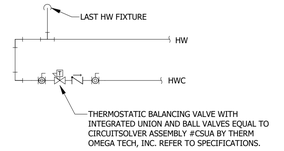


10 GAS METERING DETAIL
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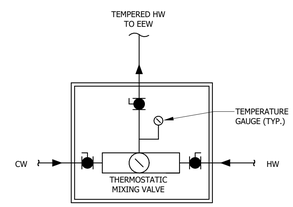


TRAP PRIMER LINES ARE SANITARY DRAIN LINES, COMPLY WITH LOCAL PLUMBING CODE. PIPING SHALL BE RIGID. SOFT COPPER IS NOT ACCEPTABLE.

11 GRAY WATER TRAP PRIMER DETAIL
No Scale



12 HWC PIPING DETAIL
No Scale



13 MIXING VALVE DETAIL (MV-1)
No Scale

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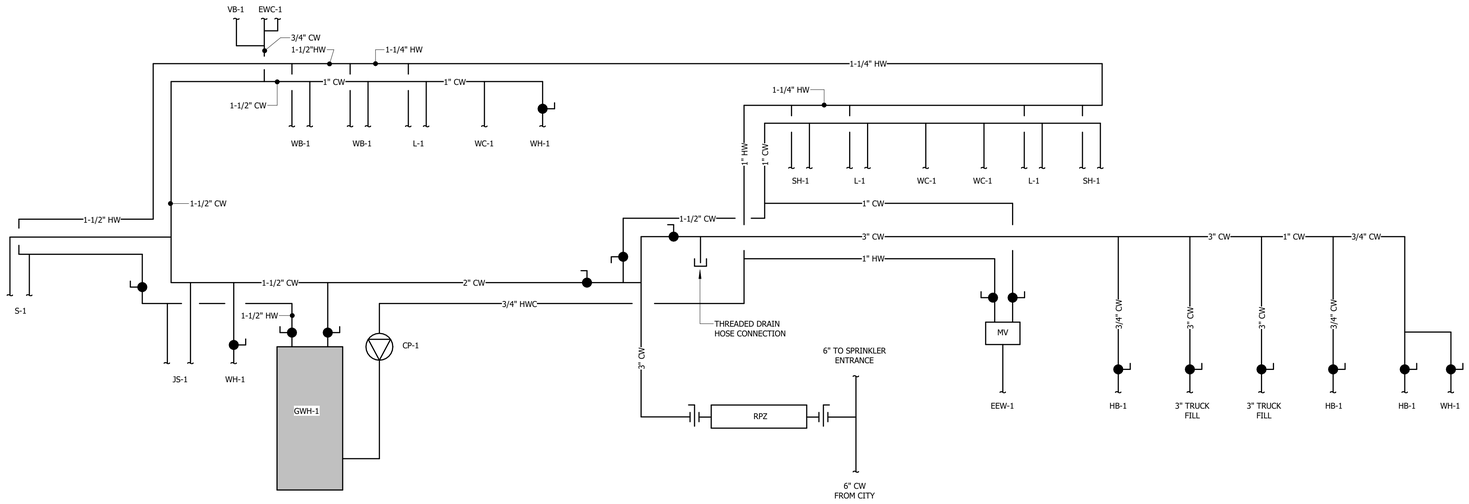
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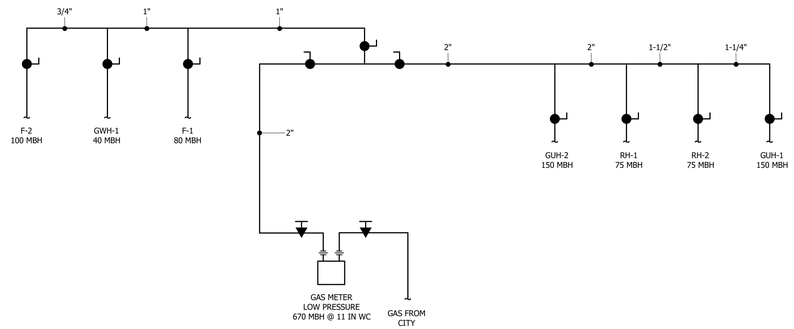
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P5.1

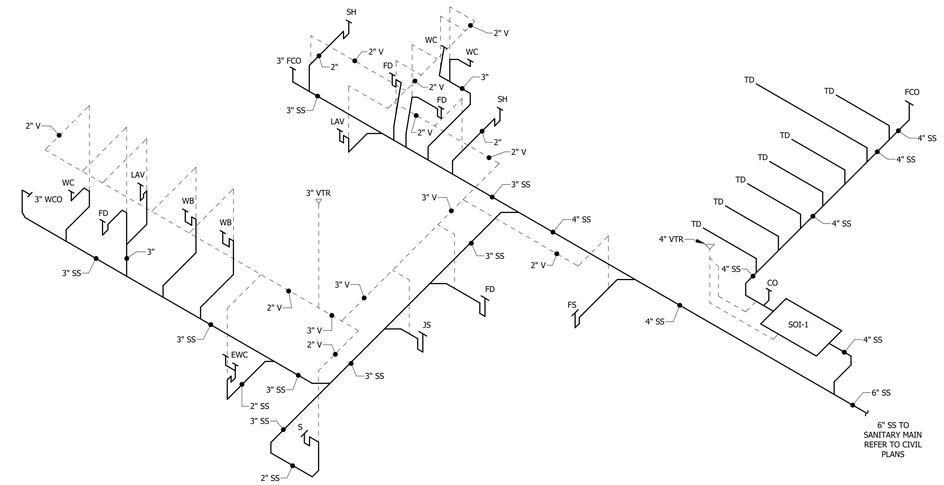
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1 DOMESTIC WATER SCHEMATIC
No Scale



2 NATURAL GAS SCHEMATIC
No Scale



3 SANITARY AND VENT SCHEMATIC
No Scale

23-006 STATE CENTER FIRE STATION

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P5.2

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PLUMBING FIXTURE SCHEDULE

UNIT TAG	TYPE	MANUFACTURER	MODEL	MATERIAL	COLOR	ADA	FIXTURE DESCRIPTION	MISCELLANEOUS	TRIM	APPROVED EQUALS
EEW-1	EMERGENCY EYE WASH	HAWS	7260BT-7270BT	ABS & CHROME	GREEN	-	WALL MOUNTED EYE/FACE WASH SHALL INCLUDE A GREEN ABS PLASTIC 11" BOWL, AN AXION® MSR EYE/FACE WASH HEAD SHALL FEATURE INVERTED DIRECTIONAL LAMINAR FLOW WHICH ACHIEVES ZERO VERTICAL VELOCITY™ SUPPLIED BY AN INTEGRAL 3.7 GPM FLOW CONTROL, CHROME PLATED BRASS STAY-OPEN BALL VALVE EQUIPPED WITH STAINLESS STEEL BALL AND STEM, TAIL PIECE AND TRAP, AND CHROME-PLATED BRASS IN-LINE 50 X 50 MESH WATER STRAINER. UNIT SHALL ALSO INCLUDE CAST-ALUMINUM CHROMATE PROTECTED WALL BRACKET, YELLOW PLASTIC POP-OFF DUST COVER FOR EYEWASH HEAD, DRAIN TRAP AND TAILPIECE, UNIVERSAL SIGN, 1/2 " NPT INLET, AND 1-1/2" NPT WASTE.	HAWS MIXING VALVE MODEL 921EW MOUNTED ON THE WALL IN A STAINLESS STEEL BOX.	-	BRADLEY, GUARDIAN
EWC-1	ELECTRIC WATER COOLER	ELKAY	EZSTL8WSLK	STAINLESS STEEL/PLASTIC	STEEL	YES	BI-LEVEL ELECTRIC WATER COOLER WITH NON-FILTERED INTEGRAL AIR-COOLED CHILLER, AUTOMATIC STREAM REGULATOR, FLEXI-GUARD SAFETY BUBBLER WITH STREAM GUARD BOTTLE FILL WITH NO TOUCH SENSOR ACTIVATION, 20 SEC AUTO SHUT-OFF, NON-FILTERED	CAPACITY: 8.0 GPH OF 50 DEGREE FARENHEIGHT WATER WITH INLET AT 80 DEGREE FARENHEIGHT AND ROOM TEMP OF 90 DEGREE FARENHEIGHT, MAX 1/5 HP COMPRESSOR, 120V/1PHASE, WARRANTY: 1 YEAR ELECTRONIC COMPONENT, 5 YEAR REFRIGERATION SYSTEM	-	HALSEY TAYLOR, ENGINEER APPROVED EQUAL
JS-1	JANITORIAL SINK	FIAT	MSBIDTG2424	MOLDED STONE	WHITE	NO	MOLDED STONE 24"x24"x10" DEEP FLOOR MOUNTED MOP SERVICE BASIN WITH 1" WIDE SHOULDERS, 3" INTEGRAL DRAIN	MOP HANGER (889-CC), SST WALL GUARD (MSG2424), VINYL BUMPERGUARD (E-77-AA), HOSE/HOSE BRACKET (832-AA) AND FAUCET (830AA)	JSF-1	STERN WILLIAMS, PROFLO, ENGINEER APPROVED EQUAL
L-1	LAVATORY	KOHLER	KINGSTON K-2005-0	VITREOUS CHINA	WHITE	YES	21-1/4" X 18-1/8" WALL MOUNTED LAVATORY, THREE HOLE, 4" CENTERS	WATTS WCA-411 FLOOR MOUNTED LAVATORY CARRIER. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	LF-1	AMERICAN STANDARD, SLOAN
SH-1	SHOWER	FREEDOM	APFQ6233BFF875	ACRYLIC	WHITE	YES	62"x323/4"x785/8" ONE-PIECE ADA SHOWER ANSI COMPLIANT, SMOOTH WALLS, TEXTURED FLOOR, FOLD UP SEAT, GRAB BARS, BARRIER FREE, CENTER DRAIN	PROVIDE FLOOR DRAIN COMPATIBLE WITH SHOWER BASE, VERIFY TRIM MOUNTING HEIGHT WITH ARCHITECT	SHV-1	ENGINEER APPROVED EQUAL
WC-1	WATER CLOSET	KOHLER	HIGHLINE K-3999-0	VITREOUS CHINA	WHITE	YES	1.28 GPF, FLOOR MOUNTED, SIPHON JET, CLASS FIVE FLUSHING SYSTEM, LEFT-HAND TRIP LEVER	CLOSE COUPLED TANK AND SUPPLY WITH LOOSE KEY STOP	WCA-1	AMERICAN STANDARD, SLOAN

NOTES:
1. VERIFY SLAB RECESS REQUIREMENTS FOR BARRIER-FREE ADA COMPLIANT INSTALLATION WITH MFG PRIOR TO INSTALLATION OF SH-1.

PLUMBING FIXTURE TRIM SCHEDULE

UNIT	TYPE	MANUFACTURER	MODEL	COLOR	FIXTURE DESCRIPTION	MISCELLANEOUS	APPROVED EQUALS
JSF-1	SERVICE SINK FAUCET	FIAT	830AA	CHROME	EXPOSED WALL MOUNT, TWO HANDLE,CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT, 8" CENTERS	FIAT #1453-BB STAINLESS STRAINER	DELTA, ENGINEER APPROVED EQUAL
LF-1	LAVATORY FAUCET	KRAUS	KSB-10001	CHROME	SENSOR OPERATED CENTER SET ELECTRONIC HAND WASHING FAUCET, 1.2 GPM LAMINAR FLOW VANDAL-RESISTANT AERATOR, 4AA BATTERIES AND CONTROL BOX.	METAL GRID STRAINER WITH 1-1/2" 17 GA CHROME PLATED P-TRAP, OFFSET TAILPIECE AS REQUIRED, TRU-BRO LAV GUARD, 1/4 TURN LOOSE KEY STOPS, [DESIGNER NOTE: ONLY SLOAN OFFERS BLUETOOTH CONNECTIVITY. INCLUDE THE FOLLOWING BLURB ONLY IF SOLE-SOURCING SLOAN. [BLUETOOTH CONNECTIVITY VIA SLOAN CONNECT APP]	ENGINEER APPROVED EQUAL
SHV-1	SHOWER SYSTEM	SYMMONS	9605-PLR	CHROME	SHOWER SYSTEM WITH 1.5 GPM TEMPTROL PRESSURE BALANCING VALVE, LEVER HANDLE, SEPARATE LEVER DIVERTER, SINGLE MODE SHOWERHEAD ARM AND FLANGE, HAND SHOWER WITH METAL HOSE, INLINE VACUUM BREAKER AND WALL CONNECTION, 36" ADA SLIDE BAR, INTEGRAL CHECK STOPS	OATEY SHOWER DRAIN WITH STAINLESS STEEL STRAINER	POWERS, ENGINEER APPROVED EQUAL
WCA-1	SEAT	CHURCH	380TCA	WHITE	CLOSED FRONT SEAT WITH COVER, ELONGATED, SELF-SUSTAINING CHECK HINGE, STAINLESS STEEL BOLTS	-	BEMIS, ENGINEER APPROVED EQUAL

PLUMBING SPECIALITIES SCHEDULE

UNIT	TYPE	MANUFACTURER	MODEL	DESCRIPTION	MISCELLANEOUS & ACCESSORIES	APPROVED EQUALS
FD-1	FLOOR DRAIN	ZURN	Z415B	EPOXY COATED CAST IRON BODY, ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR, PRIMARY AND SECONDARY WEEP HOLES, ADJUSTABLE 7" DIAMETER CHROME PLATED BRONZE STRAINER.	PROVIDE WITH MEMBRANE CLAMP ON ALL FLOOR DRAINS INSTALLED ABOVE SLAB ON GRADE. PROVIDE WITH STRAINER EXTENSION TO ACCOMMODATE THICK FILLS AS REQUIRED. [PROVIDE IN-DRAIN TRAP SEAL RECTORSEAL, OATEY, OR ENGINEER APPROVED EQUAL.] CONTRACTOR TO SELECT OUTLET TYPE. OUTLET SIZE AS NOTED ON DRAWINGS.	SMITH, WATTS, JOSAM, WADE, SUN DRAINAGE, ENGINEER APPROVED EQUAL
FS-1	FLOOR SINK	ZURN	Z1901	FLOOR SINK WITH ANCHOR FLANGE AND CLAMP COLLAR, WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE AND ALUMINUM ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, ASME A112.6.3. PROVIDE WITH ALUMINUM SEDIMENT BUCKET AND FLANGE WITH WEEP HOLES.	3/4 GRATE, CONTRACTOR TO SELECT OUTLET TYPE. OUTLET SIZE AS NOTED ON DRAWINGS.	SMITH, WATTS, JOSAM, WADE, SUN DRAINAGE, ENGINEER APPROVED EQUAL
HB-1	HOSE BIBB	WOODFORD	B24	INTERIOR: BRASS WITH INTEGRAL MOUNTING FLANGE, REPLACEABLE HEXAGONAL DISC, HOSE THREAD SPOUT, METAL HANDLE. VACUUM BREAKER IN CONFORMANCE WITH ASSE 1011.	CHROME FINISH	PRIER, ENGINEER APPROVED EQUAL
TD-1	TRENCH DRAIN GRATES	ZURN	Z712-HDG	PROVIDE MULTIPLE 12" WIDE x 24" LONG, RATED LOAD CLASS 'E' HEAVY DUTY DUCTILE IRON SLOTTED GRATES TO MATCH LENGTH OF CONCRETE TRENCH DRAIN.	REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR TRENCH DRAIN LENGTHS PRIOR TO ORDERING.	JOSAM, WATTS, ENGINEER APPROVED EQUAL
VB-1	ICE MAKER VALVE BOX	GUY GRAY	MIB1AB	WHITE POWDER COATED STEEL ICE MAKER OUTLET BOX WITH LEAD FREE VALVE.	-	IPS, GUY GRAY, OATLEY, ENGINEER APPROVED EQUAL
WB-1	WASHER BOX	GUY GRAY	MWB30	CENTER DRAIN WHITE POWDER COATED METAL WASHING MACHINE OUTLET BOX WITH 1/4 TURN VALVES AND WATER HAMMER ARRESTORS	-	IPS, GUY GRAY, OATLEY, ENGINEER APPROVED EQUAL
WH-1	WALL HYDRANT	WOODFORD	B67	ASSE 1019 NON-FREEZE, SELF-DRAINING TYPE WITH LOCKABLE RECESSED BOX HOSE THREAD SPOUT, LOCKSHIELD AND REMOVABLE KEY WITH INTEGRAL DOUBLE CHECK BACKFLOW PREVENTER, 3/4" INLET AND OUTLET.	CHROME FINISH	PRIER, ENGINEER APPROVED EQUAL

GAS WATER HEATER SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	FUEL TYPE	INPUT (MBH)	MIN RECOVERY 90ºF RISE (GPH)	FIRST HOUR RECOVERY	VOLTAGE/Ø
GWH-1	STATE	GS6 50 YBVIS	50	NATURAL GAS	40	44.7	90	120/1

NOTES:
1. POWER VENT COMMMERCIAL-GRADE RESIDENTIAL WATER HEATER WITH 3-POSITION ROTATABLE BLOWER OUTLET.

PUMP SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	SYSTEM	LOCATION	FLOW RATE (GPM)	TOTAL HEAD (FT)	MOTOR SPEED (RPM)	VOLATGE /PHASE
CP-1	BELL AND GOSSETT	PL-36	DOMESTIC HOT WATER	WATER/UTIL 103	2	14	3300	120/1

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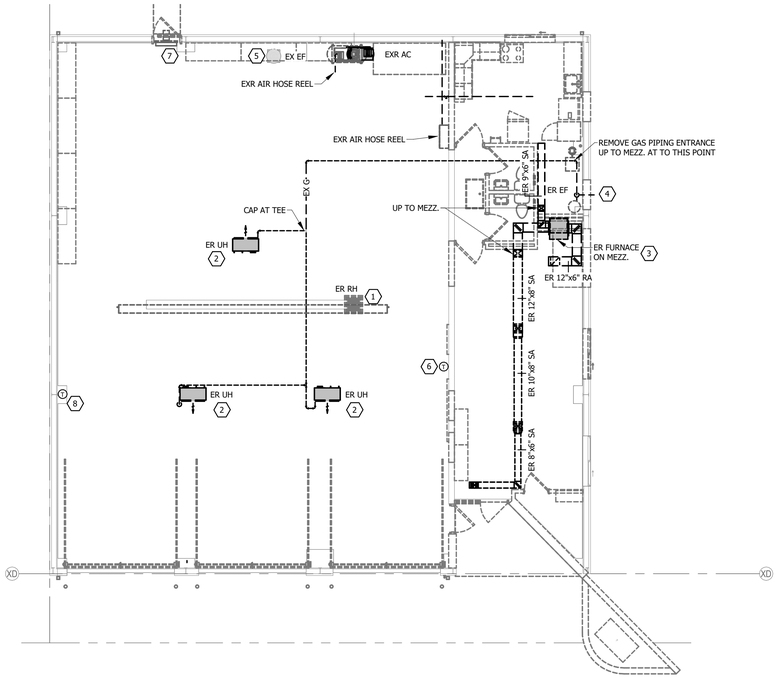
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P6.1

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N

1 HVAC DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

B. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.

C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

D. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL MECHANICAL EQUIPMENT TO BE REMOVED.

E. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.

F. EXISTING MECHANICAL AND ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

G. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

H. ALL EXTERIOR FREE-STANDING ELECTRICAL AND MECHANICAL DEVICES SHALL BE REMOVED UNDER BASE BID UNLESS OTHERWISE NOTED. PATCH OPENING TO MATCH SURROUNDING SURFACES.

I. ELECTRICAL DEVICES INDICATED TO REMAIN (EX) SHALL BE REPLACED WITH A NEW DEVICE. EXISTING CONDUIT AND BACKBOX MAY BE REUSED WHERE IN GOOD CONDITION AND MEETS CURRENT CODES. PULL NEW WIRE AND REGROUP RECEPTACLES AS INDICATED.

J. LOW VOLTAGE CABLING RELOCATIONS SHALL UTILIZE THE FOLLOWING METHODS:
- . TELECOM CABLES SHALL BE UNPLUGGED FROM FOT ROOM AND RECONNECTED TO SAME PORT FOLLOWING REROUTE. PROVIDE NEW CABLING IF LENGTH IS INSUFFICIENT.
- . INTERCOM WIRING SHALL BE SPLICED AND EXTENDED. ALL SHIELDS AND/OR DRAIN CONDUCTORS SHALL BE CONTINUOUS.

DEMOLITION REFERENCED NOTES: (#)

1. EXISTING RADIANT HEATER TO BE REMOVED AND SALVAGED TO OWNER. EXISTING FLUE,CONTROL WIRE AND THERMOSTAT CAN BE DISCARDED.
2. REMOVE EXISTING UNIT HEATER AND ASSOCIATED HANGERS, SUPPORTS, POWER, WIRING, CONDUIT, AND CONTROLS. DISCONNECT EXISTING GAS PIPING AND PREPARE FOR EXTENSION TO NEW EQUIPMENT.
3. REMOVE EXISTING FURNACE, DUCTING, COIL, LINESET, FLUE PIPING, DIFFUSERS, GAS PIPING, AND CONTROLS. PATCH & REPAIR ROOF AND/OR WALL INSULATION WHERE SHOWN TO REMAIN FOLLOWING DEMOLITION - SEE ARCHITECHTURAL.
4. ALLIANT ENERGY TO REMOVE EXISTING GAS METER AND UNDERGROUND SERVICE LINE. COORDINATE EXTENTS OF REMOVAL & EXTENSION TO NEW GAS METER LOCATION WITH SERVICE PROVIDER.
5. BUILT-IN FAN FOR DRYING CABINET. WILL BE REUSED AND RELOCATED. NO WORK FOR HVAC CONTRACTOR.
6. REMOVE THERMOSTAT, CONDUIT AND WIRING TO EXISTING RADIANT TUBE HEATER.
7. REMOVE WALL PROP FAN, CONDUIT, WIRING, CONTROL WIRING, DAMPER AND WALL SLEAVE.
8. REMOVE THERMOSTAT, CONDUIT AND WIRING TO EXISTING UNIT HEATERS BEING REMOVED.

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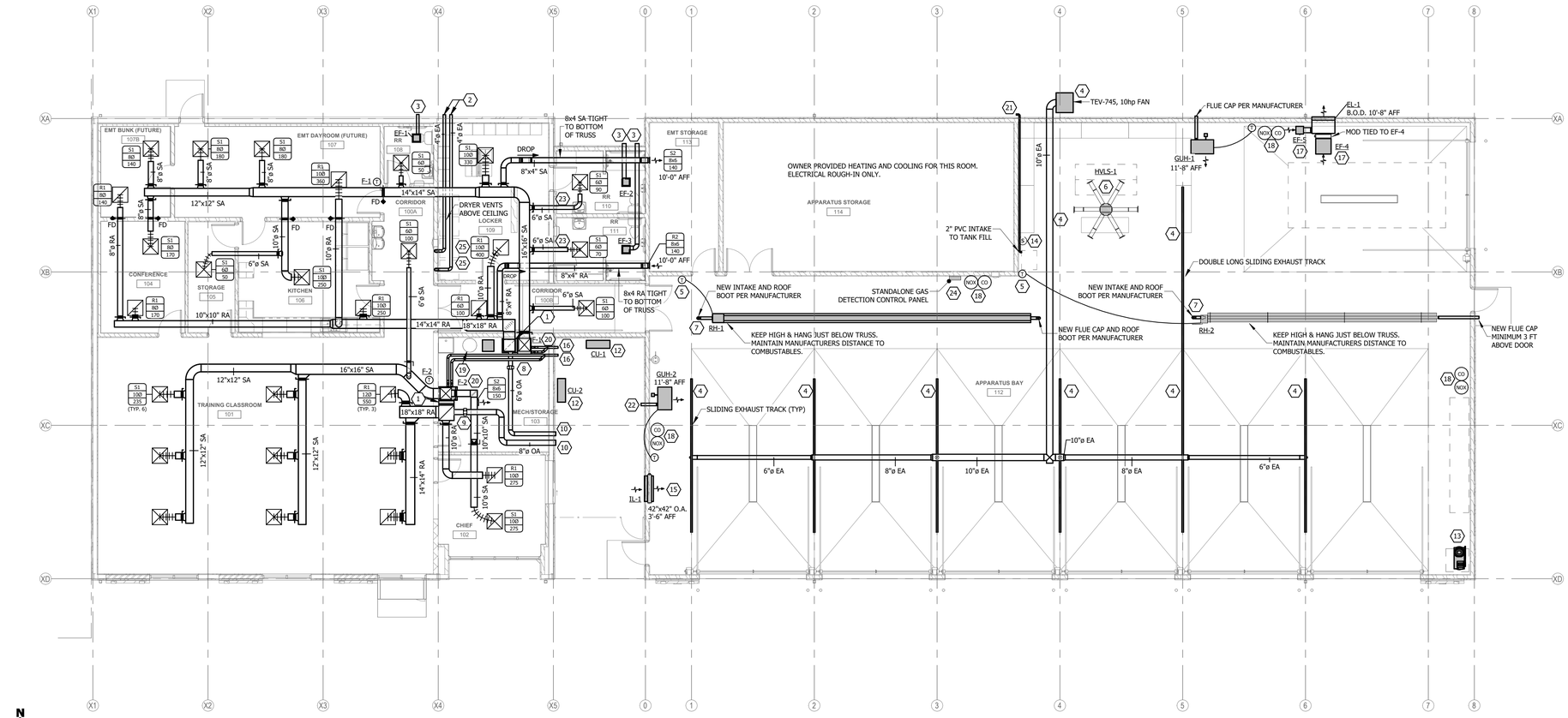
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MD1.1

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1 HVAC PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. LAYOUT AND ROUTING SHOWN IS DIAGRAMMATIC AND SCHEMATIC IN NATURE. NOT ALL OFFSETS MAY BE SHOWN. CONTRACTOR SHALL VERIFY EXACT ROUTING REQUIRED AND NUMBER OF OFFSETS AND TRANSITIONS.

B. MAINTAIN SERVICE CLEARANCE IN FRONT OF AND ABOVE ELECTRICAL EQUIPMENT AND ACCESS. DO NOT INSTALL EQUIPMENT OR ROUTE DUCTS IN CLEARANCE SPACE. REFER TO EQUIPMENT INSTALLATION AND INSTRUCTIONS.

C. COORDINATE THERMOSTAT LOCATIONS WITH CASEWORK, WALL TYPES, AND FURNISHINGS PRIOR TO ROUGH-IN. COORDINATE FINAL LOCATIONS WITH OWNER.

D. PROVIDE VOLUME CONTROL BALANCING DAMPERS ON ALL SUPPLY, RETURN, EXHAUST AIR TAPS IN ACCESSIBLE LOCATIONS FOR AIR BALANCING. INSTALL CABLE OPERATED DAMPER OR ACCESS PANEL IF DAMPER IS LOCATED ABOVE GYP CEILINGS.

E. COORDINATE DUCT ROUTING WITH STRUCTURAL AND ALL TRADES.

F. COORDINATE ALL EXPOSED DUCTWORK ROUTING WITH DESIGN TEAM PRIOR TO ROUGH-IN.

G. COORDINATE SUPPLY, RETURN, AND EXHAUST GRILLE/DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ALL TRADES.

H. ALL ROOFTOP PENETRATIONS SHALL OCCUR NORTH OF ROOF RIDGE LINE. PROVIDE & INSTALL BOOT FLASHING AND OTHER ASSOCIATED ACCESSORIES AS REQUIRED FOR PROPER OPERATION AND INSTALLATION. **PAINT ALL PIPE PENETRATIONS TO MATCH FINISH OF METAL ROOF PANELS.**

I. COORDINATE DUCT ROUTING IN LOCATIONS WITH EXISTING CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ROUGH-IN.

J. DESIGN INTENT SHALL BE ALL MECHANICAL, ELECTRICAL, & PLUMBING RUNS WITHIN NEW ADMIN AREA, LOCKER ROOM & RESTROOMS SHALL BE RUN WITHIN NEW WALL ASSEMBLIES, ABOVE FINISH CEILING ASSEMBLIES OR TIGHT TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE ANY EXPOSED ROUTING WITHIN THESE SPACES WITH ARCHITECT & ENGINEER PRIOR TO FABRICATION & INSTALLATION.

REFERENCED NOTES: (#)

1. PROVIDE AND INSTALL MERV 11 25"x20"x2" SIDE RETURN FILTER RACK.
2. 4" ALUMINUM DRYER VENT WALL CAP WITH PRE-FINISHED METAL BACKPLATE TO MATCH METAL SIDING AS REQUIRED FOR PROPER SEAL TO BUILDING ENVELOPE.
3. 6" ALUMINUM BATH FAN WALL CAP WITH PRE-FINISHED METAL BACKPLATE TO MATCH METAL SIDING AS REQUIRED FOR PROPER SEAL TO BUILDING ENVELOPE.
4. PLYMOVENT SYSTEM (TRACKS, FAN, DUCTING & CONTROLS) BY OWNER. SHOWN FOR COORDINATION.
5. PROVIDE NEW HEATING ONLY DIGITAL THERMOSTAT, WIRING & CONDUIT FOR NEW RADIANT TUBE HEATER. EACH HEATER CONTROLLED BY ITS OWN STAT.
6. MOUNT HVLS-1 HIGH. COORDINATE FINAL LOCATION TO NOT INTERFERE WITH PLYMOVENT AND LIGHTING.
7. DUCT NEW RADIANT TUBE HEATERS COMBUSTION AIR UP AND OUT NORTH SIDE OF ROOF RIDGE.
8. FIELD CONTROLS 100cfm 6" FAVC DAMPER, SENSORS AND CONTROLLER SET TO ECONOMY MODE FOR NORTHERN CLIMATE.
9. FIELD CONTROLS 200cfm 8" FAVC DAMPER, SENSORS AND CONTROLLER SET TO ECONOMY MODE FOR NORTHERN CLIMATE.
10. BROAN 6" ROUND INTAKE AIR HOOD MODEL 641FA. KEEP A MINIMUM 10' FROM EXHAUST OUTLETS AND MAINTAIN REQUIRED CLEARANCE FROM GAS METER PRESSURE REGULATOR.
11. BROAN 8" ROUND INTAKE AIR HOOD MODEL 643FA. KEEP A MINIMUM 10' FROM EXHAUSTS.
12. G.C. TO INSTALL 4" HOUSEKEEPING PAD FOR CONDENSING UNITS. COORDINATE SIZE WITH FINAL EQUIPMENT.
13. RELOCATED EXISTING AIR COMPRESSOR AND HOSE REEL. COORDINATE FINAL MOUNTING LOCATION OF RELOCATED HOSE REEL WITH OWNER.
14. FIXED WALL MOUNT SPEED CONTROLLER FOR HVLS-1 FAN.
15. NEW WALL SLEEVE, INTAKE LOUVER & MOTOR OPERATED DAMPER TIED INTO PURGE CONTROL AND EF-4.
16. PROVIDE AND INSTALL MANUFACTURERS CONCENTRIC WALL VENT.
17. SEE DETAIL 6 ON SHEET M5.1. KEEP FAN HIGH AS POSSIBLE & INSTALL WITH INLET GUARD SCREEN.
18. CO SENSOR MOUNTED APPROXIMATELY 4' ABOVE FINISHED FLOOR. NOX SENSOR MOUNTED APPROXIMATELY 2' FROM CEILING. TIED INTO EF-4 AND IL-1 MOD.
19. PVC WATER HEATER VENT AND COMBUSTION INTAKE SIZED PER WATER HEATER MANUFACTURER, UP AND OUT NORTH SIDE OF ROOF RIDGE. FLASH AND SEAL WATER TIGHT.
20. ROUTE F-2 CONDENSATE TO MOP SINK. ROUTE F-1 CONDENSATE TO FLOOR DRAIN NEAR WATER HEATER.
21. 2" PVC INTAKE FILL FOR OXYGEN TANK FILL. VERIFY SIZE WITH UNIT MANUFACTURER. KEEP 10' FROM ALL EXHAUST SOURCES.
22. NEW GUH FLUE AND CAP OUT WALL PER MANUFACTURER. MAINTAIN MINIMUM OF 10' FROM ALL FRESH AIR INTAKES.
23. ROUTE 6"Ø SA IN WOOD JOIST WEBBING. FIELD COORDINATE EXACT LOCATION.
24. PROVIDE A STANDALONE GAS DETECTION CONTROL PANEL TO CONTROL ASSOCIATED GAS SENSORS, INTAKE LOUVER DAMPER, AND PURGE EXHAUST FAN EF-4.
25. PROVIDE RECESSED DRYER BOX IN WALL.

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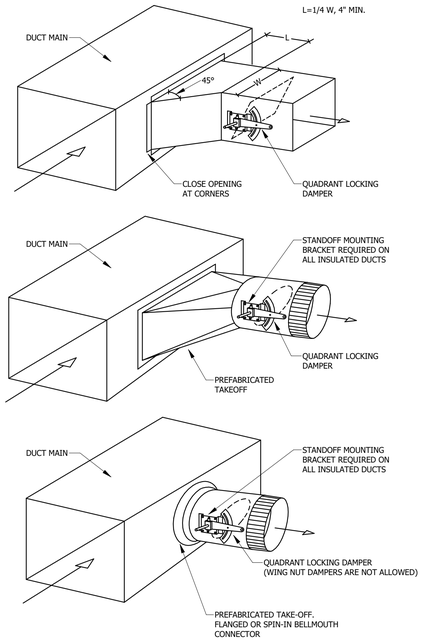
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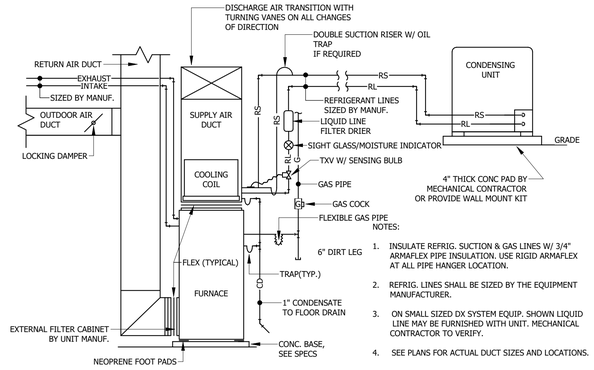
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ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: MECHANICAL PLAN

M1.1

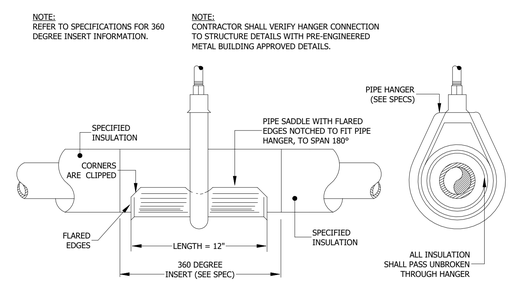


1 45 BRANCH CONNECTION DETAIL
No Scale

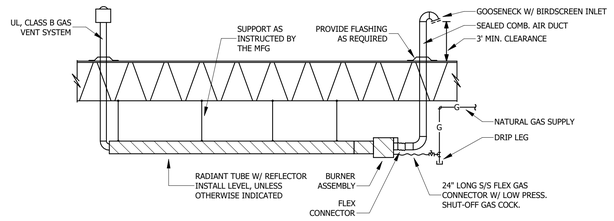


NOTES:
1. INSULATE REFRIG. SUCTION & GAS LINES W/ 3/4" ARMAFLEX PIPE INSULATION. USE RIGID ARMAFLEX AT ALL PIPE HANGER LOCATION.
2. REFRIG. LINES SHALL BE SIZED BY THE EQUIPMENT MANUFACTURER.
3. ON SMALL SIZED DX SYSTEM EQUIP. SHOWN LIQUID LINE MAY BE FURNISHED WITH UNIT. MECHANICAL CONTRACTOR TO VERIFY.
4. SEE PLANS FOR ACTUAL DUCT SIZES AND LOCATIONS.

2 FURNACE WITH CONDENSOR DETAIL
No Scale

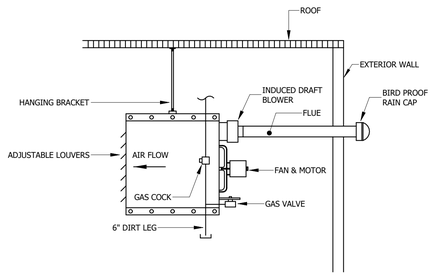


3 INSULATED PIPE HANGER DETAIL
No Scale

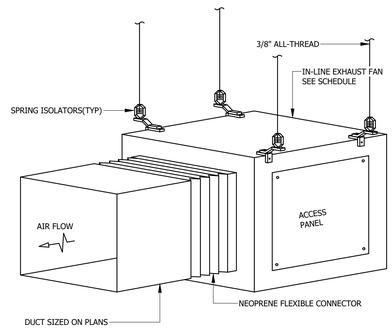


NOTE: DO NOT ROUTE ELECTRICAL DIRECTLY OVER HEATER

4 RADIANT TUBE HEATER DETAIL
No Scale



5 GAS FIRED UNIT HEATER DETAIL
No Scale



6 IN-LINE EXHAUST FAN DETAIL
No Scale

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M5.1

Furnace General Installation

Horizontal Venting Through Wall with Concentric Vent Kit

These Furnaces may be installed as direct vent (as shipped) or as nondirect vent. Installation must conform to national, state, and local codes.

The BAYVENTC200B, BAYVENTCN200B, BAYAIR30AVENTA, and BAYAIR30CNVENT vent & inlet terminals kits must be located at least 12" minimum above normally expected snow accumulation level.

Avoid areas where staining or condensate drippage may be a problem.

Location of the vent/wind terminal should be chosen to meet the requirements for either direct or non-direct vent applications.

PITCH – Venting through the wall must maintain 1/4" per foot pitched upward to insure that condensate drains back to the Furnace.

FLUE GAS DEGRADATION – The moisture content of the flue gas may have a detrimental effect on some building materials.

This can be avoided by using the roof or chimney venting option. When wall venting is used on any surface that can be affected by moisture, it is recommended that a corrosion resistant shield (24 inches square) be used behind the vent terminal.

This shield can be wood, plastic, sheet metal, etc. Also, silicone caulk all cracks, seams and joints within 3 feet of the vent terminal.

The vent for this appliance shall not terminate

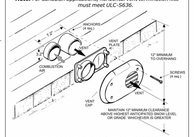
1. *Over public walkways; or*
2. *Near soffit vents or crawl space vents or other areas where condensate or vapor could create a nuisance or hazard or cause property damage; or*
3. *Where condensate vapor could cause damage or could be detrimental to the operation of regulators, relief valves, or other equipment.*

For Canadian installations, if you used a ULC-S636 approved manufactured modular venting system, a copy of the manufacturer's instructions should remain with the system.

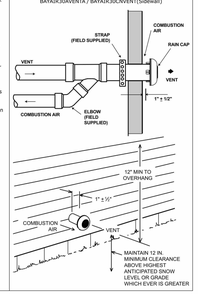
The installation instruction can be obtained from the vent termination manufacturer. BAYVENTCN200B and BAYAIR30CNVENT meet ULC-S636 requirements.

BAYVENT200B / BAYVENTCN200B

***Note:** For Canadian applications, horizontal vent termination kits must meet ULC-S636.*

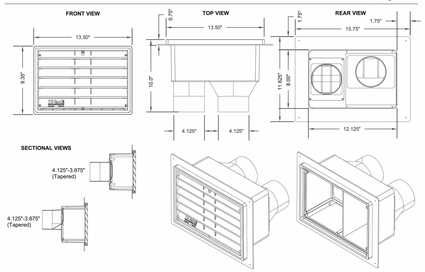


BAYAIR30AVENTA / BAYAIR30CNVENT(Sidewall)



TECHNICAL SPECIFICATIONS
MODEL # DHEB-44-S

Designed for finished exterior systems such as Stucco, Siding Exterior



GENERAL INFORMATION

FOR USE
- Bathroom exhaust
- Dryer exhaust
- Kitchen hood exhaust
- Fresh air make-up
- Devices that require exterior exhaust or intake

MATERIALS
- Constructed from high temperature plastic polymers
- Material tested for use on high temperature appliance devices or components. (max sustainable operational temperature at 235°)
- ICC-ES PMG Product Certification, ASTM E-84 / UL-723, UL-94-VO
- All components made and fully assembled in the USA

BENEFITS
- Prevents exterior air from entering interior area
- Prevents mold & mildew*
- Eliminates water intrusion**
- Sold assembled
- Single step installation
- Greatly reduces labor cost
- Fits duct sizes up to (2) 4" diameter ducts
- 100% non corrosive material
- Box cavity designed not to interfere with structural design

FEATURES
- Interior monolithic cavity, positive pitch sidewalls
- Mounted flush with exterior building surface
- Paintable, primer required
- Gravity back draft dampers
- Removable front louver for periodic maintenance and inspections
- Face louver is attached with six stainless steel screws
- Impact resistant
- UV stabilized
- Available in White or Custom colors

* with proper interior environmental conditions
** In accordance with manufacturer recommendations, connected to a ducted system

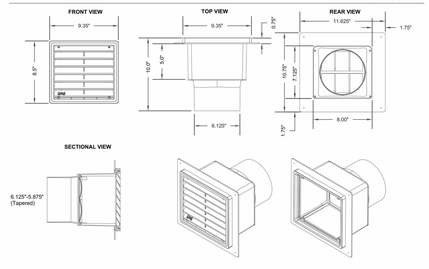
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TECHNICAL SPECIFICATIONS
MODEL # 6SEB-S

Designed for finished exterior systems such as Stucco, Siding Exterior



GENERAL INFORMATION

FOR USE
- Bathroom exhaust
- Dryer exhaust
- Kitchen hood exhaust
- Fresh air make-up
- Devices that require exterior exhaust or intake

MATERIALS
- Constructed from high temperature plastic polymers
- Material tested for use on high temperature appliance devices or components. (max sustainable operational temperature at 235°)
- ICC-ES PMG Product Certification, ASTM E-84 / UL-723, UL-94-VO
- All components made and fully assembled in the USA

BENEFITS
- Prevents exterior air from entering interior area
- Prevents mold & mildew*
- Eliminates water intrusion**
- Sold assembled
- Single step installation
- Greatly reduces labor cost
- Fits duct sizes (1) 6" diameter duct
- 100% non corrosive material
- Box cavity designed not to interfere with structural design

FEATURES
- Interior monolithic cavity, positive pitch sidewalls
- Mounted flush with exterior building surface
- Paintable, primer required
- Gravity back draft dampers
- Removable front louver for periodic maintenance and inspections
- Face louver is attached with four stainless steel screws
- Impact resistant
- UV stabilized
- Available in White or Custom colors

* with proper interior environmental conditions
** In accordance with manufacturer recommendations, connected to a ducted system

NOTE: Product improvement is a continuing endeavor. Therefore, materials, appearance, and specifications are subject to change without notice.

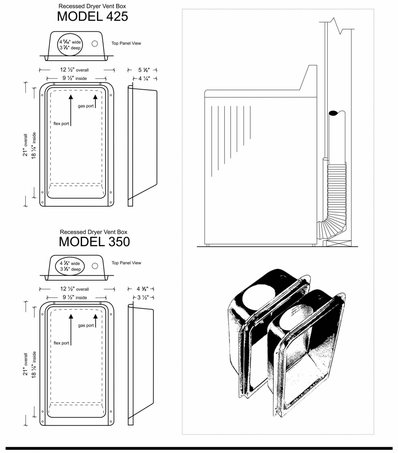
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Upward Exhaust Direction

In-O-Vate Technologies, Inc.

Recessed Dryer Vent Box
MODEL 425



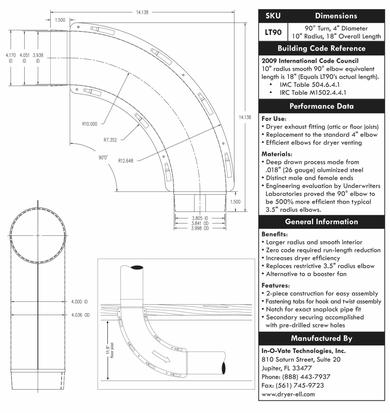
Recessed Dryer Vent Box
MODEL 350

Available in PDF at www.dryerbox.com

© 2005 (Rev. 03/06) 1028.INDD

Technical Product Specifications

In-O-Vate Technologies, Inc.



SKU	Dimensions
LT90	90° Turn, 4" Diameter 10" Radius, 18" Overall Length

Building Code Reference

2009 International Code Council
10" radius smooth 90° elbow equivalent length is 18" (Equals LT90's actual length).
- IMC Table 504.6.4.1
- IRC Table M1502.4.4.1

Performance Data

For Use:
- Dryer exhaust fitting (attic or floor joists)
- Replacement to the standard 4" elbow
- Efficient elbows for dryer venting

Materials:
- Deep drawn process made from .018" (26 gauge) aluminized steel
- Distinct male and female ends
- Engineering evaluation by Underwriters Laboratories proved the 90° elbow to be 500% more efficient than typical 3.5" radius elbows.

General Information

Benefits:
- Larger radius and smooth interior
- Zero code required run-length reduction
- Increases dryer efficiency
- Replaces restrictive 3.5" radius elbow
- Alternative to a booster fan

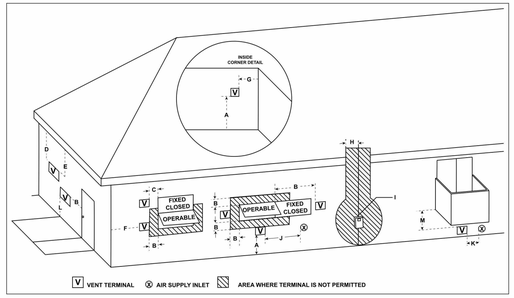
Features:
- 2-piece construction for easy assembly
- Fastening tabs for hook and twist assembly
- Notch for exact snaplock pipe fit
- Secondary securing accomplished with pre-drilled screw holes

Manufactured By

In-O-Vate Technologies, Inc.
810 Saturn Street, Suite 20
Jupiter, FL 33477
Phone: (888) 443.7937
Fax: (561) 745-9723
www.dryer-ell.com

Made in the USA Dryer-Ell – U.S. Patent 7,210,505

Horizontal Vent Clearances



Non-Direct Vent Termination Clearances			
		Canadian Installations	US Installations
A=	Clearance above grade, veranda, porch, deck, or balcony	12 inches (30 cm)	12 inches (30 cm)
B=	Clearance to window or door that may be opened	12 inches (30 cm) for appliances > 10,000 BTUH (3 kw) and ≤ 100,000 BTUH (30 kw), 36 inches (91 cm) for appliances > 100,000 BTUH (30 kw)	4 feet (1.2m) below or to the side of opening; 1 foot (0.3m) above opening
C=	Clearance to permanently closed window	*	*
D=	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (61 cm) from the center line of the terminal	*	*
E=	Clearance to unventilated soffit	*	*
F=	Clearance to outside corner	*	*
G=	Clearance to inside corner	*	*
H=	Clearance to each side of center line extended above meter/regulator assembly	3 feet (91 cm) with a height 15 feet (4.5 m) above the meter/regulator assembly	*
I=	Clearance to service regulator vent outlet	3 feet (91 cm)	*
J=	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	12 inches (30 cm) for appliances > 10,000 BTUH (3 kw) and ≤ 100,000 BTUH (30 kw), 36 inches (91 cm) for appliances > 100,000 BTUH (30 kw)	4 feet (1.2 m) below or to side of opening; 1 foot (300 m) above opening
K=	Clearance to a mechanical air supply inlet	6 feet (1.83m)	3 feet (91 cm) above if within 10 feet (3m) horizontally
L=	Clearance above a paved sidewalk or paved driveway located on public property	7 feet (2.13 m) and not located above public walkways or other areas where condensate or vapor can cause a nuisance or hazard	7 feet (2.13 m) and not located above public walkways or other areas where condensate or vapor can cause a nuisance or hazard
M=	Clearance under veranda, porch, deck, or balcony	12 inches (30 cm) if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor	12 inches (30 cm) where the area beneath the veranda, porch, deck, or balcony is open on not less than two sides. The vent terminal is prohibited in this location where only one side is open

Notes:
1. The Canadian venting installations must be in accordance with local codes or in the absence of local codes with the current CSA B149.1 Natural Gas and Propane Installation Code.
2. The US venting installations must be in accordance with local codes or in the absence of local codes with the current ANSI Z223.1/NFPA 54 National Fuel Gas Code.

* Clearance in accordance with local installation codes and the requirements of the gas supplier.

2 EXHAUST TERMINATION DETAILS
No Scale

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CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: MECHANICAL DETAILS

M5.2

EXHAUST FAN SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	SERVES	AIRFLOW (CFM)	ESP (IN. WG)	MOTOR WATTS	FAN SPEED (RPM)	DRIVE TYPE	SOUND LEVEL (SONES)	MCA	MOP	V/C/P
EF-1	BROAN	QTXEG080	BATHROOMS	80	0.10	23.9	-	DIRECT	0.4	0.2		115/60/1
EF-2	BROAN	QTXEG110	BATHROOMS	110	0.10	23.9	-	DIRECT	0.4	0.3		115/60/1
EF-3	BROAN	QTXEG110	BATHROOMS	110	0.10	23.9	-	DIRECT	0.4	0.3		115/60/1
EF-4	GREENHECK	SQ-160-VG	APPARATUS BAY PURGE	4000	.35	2 HP	1473	DIRECT	18.7	15.6	25	208/60/1
EF-5	BROAN	L300EL	APPARATUS BAY CONSTANT	265	.125	.7 AMPS	1256	DIRECT	5	0.7		115/60/1

NOTES:
1. PROVIDE AND INSTALL NEOPRENE ISOLATION HANGERS OR OPEN SPRING ISOLATION HANGERS FOR EF-4 & EF-5.
2. EF-1, EF-2, EF-3 SHALL RUN VIA ROOM OCCUPANCY SENSOR.
3. EF-4 SHALL BE CONTROLLED BY GAS DETECTION CONTROL PANEL.
4. PROVIDE A MOTORIZED CONTROL DAMPER WITH EF-4 TO OPEN WITH EF-4 IS RUNNING AND CLOSED WHEN EF-4 IS OFF.
5. EF-5 SHALL RUN CONTINUOUSLY.

FURNACE SCHEDULE

			FAN SECTION				GAS HEATING SECTION				COOLING PERFORMANCE		ELECTRICAL		
UNIT TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	ESP (IN WC)	HP	FILTER	FUEL	INPUT CAPACITY	OUTPUT CAPACITY	STAGES	TOTAL CAPACITY (MBH)	STAGES	MCA	MOCP	VOLTAGE/ PHASE
F-1	DAIKIN	DR96TN0804CN	1800	0.6	.75	MERV 8	GAS	80	76.8	TWO	53	VARIABLE	11.4	20	120/1
F-2	DAIKIN	DR96TN1005CN	1995	0.6	1	MERV 8	GAS	100	96	TWO	53	VARIABLE	14.4	25	120/1

NOTES:
1. PROVIDE AND INSTALL WITH DAIKIN AHRI MATCHED CASED COIL WITH ELECTRONIC EXPANSION VALVE.
2. PROVIDE AND INSTALL DAIKIN ONE THERMOSTAT. **SET TARGET HUMIDITY TO 50%**. COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
3. PROVIDE AND INSTALL CONCENTRIC WALL VENT KITS.

GAS UNIT HEATER SCHEDULE

			FAN SECTION		HEATING SECTION				ELECTRICAL		
UNIT TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	TEMP RISE	FUEL	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	STAGES	MCA	MOCP	VOLTAGE/ PHASE
GUH-1	MODINE	PTP	2140	53	NAT. GAS	150	123	SINGLE	-	15	120/1
GUH-2	MODINE	PTP	2140	53	NAT. GAS	150	123	SINGLE	-	15	120/1

NOTES:
1. PROVIDE FACTORY WALL OR CEILING HANGER KIT.
2. PROVIDE FACTORY DISCONNECT.
3. PROVIDE STANDALONE WALL MOUNTED THERMOSTAT FOR EACH UNIT.

LOUVER SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	UNIT SERVED	FACE VELOCITY (FPM)	AIFLOW (CFM)	PRESSURE DROP (IN WC)	LOUVER WIDTH (IN)	LOUVER HEIGHT (IN)	FREE AREA (SQ FT)
EL-1	RUSKIN	ELF520DD	EF-4	909	4000	0.21	36	36	4.40
IL-1	RUSKIN	ELF520DD	PURGE INTAKE	643	4000	0.10	42	42	6.22

NOTES:
1. CUSTOM COLOR SELECTION BY ARCHITECT. COLOR SHALL MATCH METAL SIDING.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	MATERIAL	SYSTEM TYPE	NECK SIZE	FACE SIZE	RANGE	MAX N.C.	NOTE
S1	TITUS	OMNI	STEEL	SUPPLY	SEE DWG	24x24	SEE DWG	20	1,2
S2	TITUS	300FL	ALUMINUM	SUPPLY	8x6	-	SEE DWG	20	1
R1	TITUS	OMNI	STEEL	RETURN	SEE DWG	24x24	SEE DWG	20	1,2
R2	TITUS	301FL	ALUMINUM	RETURN	8x6	-	SEE DWG	20	1

NOTES:
1. COLOR TO BE WHITE UNLESS OTHERWISE NOTED ON PLANS.
2. VERIFY CEILING TYPE WITH ARCHITECTURAL PLANS FOR BORDER TYPE NEEDED PRIOR TO ORDERING.

CONDENSING UNIT SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	CAPACITY (MBH)	REFRIGERANT	COMPRESSSOR TYPE	CAPACITY STEPS	MCA	MOCP	VOLTAGE/ PHASE	WEIGHT (LBS)
CU-1	DAIKIN	DC6VS	45.5	R-32	SWING	VARIABLE	31.8	35	208/1	163
CU-2	DAIKIN	DC6VS	53.5	R-32	SWING	VARIABLE	37.5	40	208/1	174

NOTES:
1. VARIABLE SPEED COMPRESSOR.
2. PROVIDE AND INSTALL LINESET WITH PRE-INSULATED UV RESISTANT JACKET.
3. COMPATIBLE WITH FURNACE AND CONTROL SYSTEM.
4. PROVIDE WALL MOUNT KIT FOR CONDENSING UNITS OR 4" CONCRETE HOUSEKEEPING PAD. COORDINATE WITH WALL CONDITION AND DESIGN TEAM PRIOR TO INSTALLATION.

HIGH VOLUME LOW SPEED FAN SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	FAN DIAMETER (FT)	MAX SPEED (RPM)	ELECTRICAL		
						*MCA	MOCP	VOLTAGE/PHASE
HVLS-1	BIG ASS FAN	i6	40.3	8	80	36 WATTS	15	120/1

NOTES:
1. PROVIDE AND INSTALL MANUFACTURER'S CEILING MOUNT KIT.
2. PROVIDE AND INSTALL WITH FIXED WALL MOUNT REMOTE SPEED CONTROLLER.
3. ARCHITECT SHALL SELECT FINISH DURING SUBMITTAL REVIEW.
4. PROVIDE AND INSTALL WITH 12" DOWNROD.

RADIANT HEATER SCHEDULE

			HEATING SECTION			ELECTRICAL		
UNIT TAG	MANUFACTURER	MODEL	FUEL	INPUT CAPACITY (MBH)	STAGES	MCA	MOCP	VOLTAGE/ PHASE
RH-1	DETROIT RADIANT	DES3-30-75	NAT. GAS	75	ONE	4.8	15	120/1
RH-2	DETROIT RADIANT	DES3-40-75	NAT. GAS	75	ONE	4.8	15	120/1

NOTES:
1. 0° MOUNTING ANGLE.
2. MAINTAIN ALL MANUFACTURERS DISTANCES TO COMBUSTIBLES.

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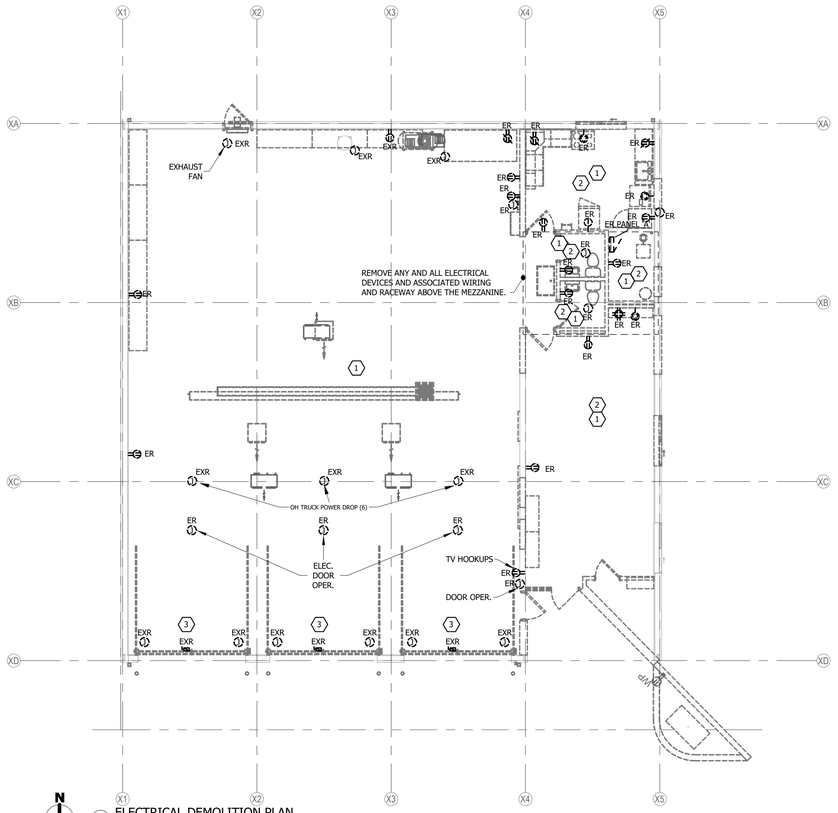
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PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: MECHANICAL SCHEDULES

M6.1

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1 ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

POWER DEMOLITION GENERAL NOTES:

A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

B. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.

C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

D. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL MECHANICAL EQUIPMENT TO BE REMOVED.

E. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.

F. EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

G. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

H. EXTERIOR FREE-STANDING ELECTRICAL AND MECHANICAL DEVICES NOT BEING REUSED SHALL BE REMOVED UNDER BASE BID UNLESS OTHERWISE NOTED. PATCH OPENING TO MATCH SURROUNDING SURFACES.

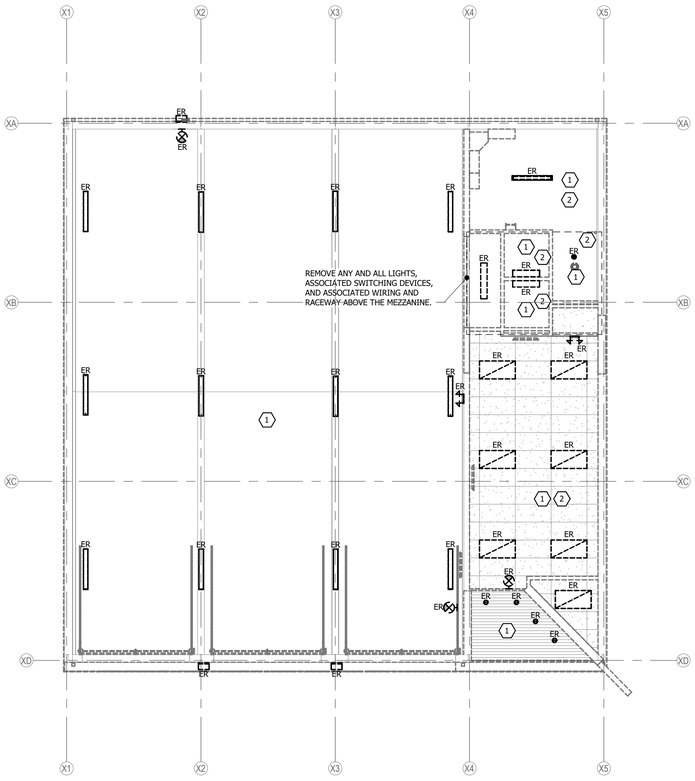
POWER DEMOLITION REFERENCED NOTES: (#)

(NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

1. REMOVE RECEPTACLES AND OTHER ELECTRICAL AND LOW VOLTAGE DEVICES UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE THE SCOPE OF REMODELING. REMOVE ASSOCIATED CONDUCTORS AND RACEWAY COMPLETELY.

2. REMOVE ALL WALL DEVICES INCLUDING THOSE INDICATED AND ASSOCIATED CONDUCTORS AND RACEWAY.

3. EXISITNG OVERHEAD DOORS TO BE PRESERVED AND REUSED. EXISITNG CONDUIT CAN BE PRESERVED AND REUSED WHERE IN "GOOD" CONDITION AND MEETS CURRENT CODES.



2 LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

LIGHTING DEMOLITION GENERAL NOTES:

A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

B. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.

C. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

D. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.

E. EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

F. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

G. EXTERIOR FREE-STANDING ELECTRICAL AND MECHANICAL DEVICES NOT BEING REUSED SHALL BE REMOVED UNDER BASE BID UNLESS OTHERWISE NOTED. PATCH OPENING TO MATCH SURROUNDING SURFACES.

LIGHTING DEMOLITION REFERENCED NOTES: (#)

(NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

1. REMOVE ALL LIGHTING AND SWITCHING DEVICES UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE THE SCOPE OF REMODELING. REMOVE ASSOCIATED CONDUCTORS AND RACEWAY COMPLETELY.

2. REMOVE ALL WALL DEVICES INCLUDING THOSE INDICATED AND ASSOCIATED CONDUCTORS AND RACEWAY.

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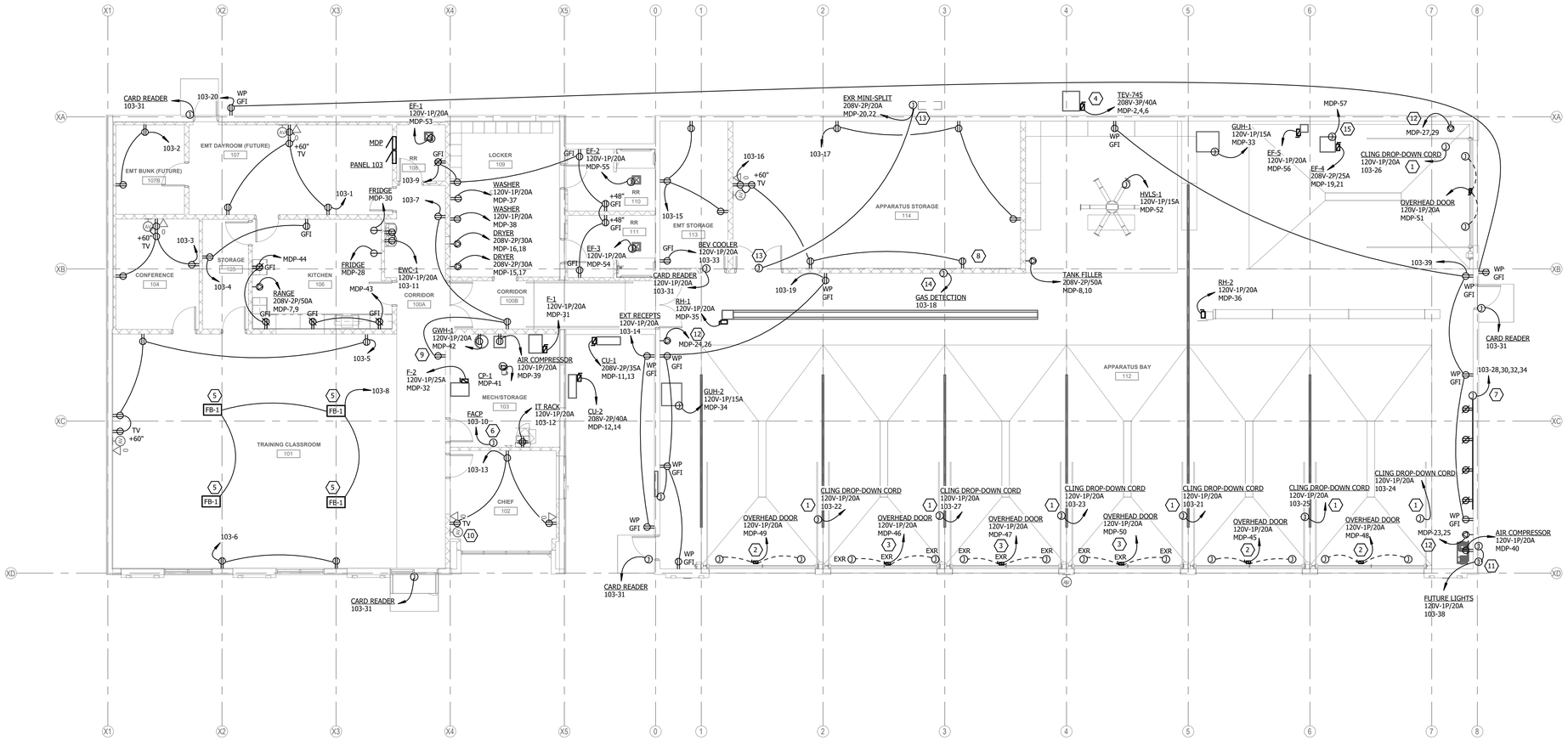
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CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025

PHASE: CD
SHEET NAME: ELECTRICAL DEMOLITION PLAN

ED1.1

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N

1 ELECTRICAL PLAN
1/8" = 1'-0"

POWER GENERAL NOTES:

A. ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.

B. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.

C. SURFACE RACEWAY AND CONDUIT SHALL NOT BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ENGINEER AND ARCHITECT.

D. ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS.

E. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.

F. PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% FILL.

G. PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL CASEWORK ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER AND ARCHITECT.

H. ALL FLOOR BOXES SHALL HAVE THEIR EXACT ROUGH-IN LOCATION DETERMINED BY DESIGN TEAM THROUGH DIMENSIONED DRAWINGS SIGNED BY OWNER PRIOR TO ROUGH-IN. LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY.

I. PROVIDE AN ADDITIONAL 20A-1P BREAKER IN LOCAL PANEL FOR CONNECTION TO FIRE SMOKE DAMPERS (FSD). SEE HVAC PLANS FOR EXACT LOCATIONS. CLEARLY INDICATE ON AS-BUILT DRAWINGS.

J. IN ROOMS WHERE MULTIPLE COUNTER HEIGHTS EXIST, ALL ABOVE-COUNTER RECEPTACLE SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE FLOOR. COORDINATE WITH DESIGN TEAM DURING CONSTRUCTION.

K. REFER TO T-SHEETS FOR ADDITIONAL ROUGH-IN INFORMATION. ALL AUDIO INPUTS SHALL BE ROUGHED IN ADJACENT TO RECEPTACLES SHOWN ON THIS PLAN UNLESS NOTED OTHERWISE.

L. PROVIDE ALL NEW ELECTRICAL DEVICES AND FACEPLATES FOR EXISTING (EX) DEVICES SHOWN.

M. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND RCP 'S SHALL BE REVIEWED AND APPROVED BY THE DESIGN TEAM PRIOR TO ROUGH-IN. IF A DEVICE IS REQUIRED PER SPECIFICATION, REQUIRED FOR OPERATION, OR IS DIFFERENT IN CONFIGURATION THAN SHOWN ON ELEVATIONS AND RCP'S, CLARIFICATION AND DIRECTION MUST BE GIVEN BY THE DESIGN TEAM BEFORE ROUGH-IN. DEVIATIONS OR ADDITIONAL DEVICES NOT APPROVED PRIOR TO INSTALLATION SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO THERMOSTATS, CONTROL SYSTEM SENSORS, ELECTRICAL DEVICES, SWITCHES, DIMMERS, TECHNOLOGY DEVICES, A/V DEVICES, SPEAKERS, FIRE ALARM DEVICES, ETC.

N. CEILING CONTRACTOR SHALL PROVIDE AND INSTALL CEILING ACCESS PANELS FOR ACCESSIBILITY TO ELECTRICAL JUNCTION BOXES, PLUMBING VALVES, BALANCING DAMPERS, CIRCUIT SETTERS, ETC. WHERE ABSOLUTELY NECESSARY. LOCATIONS WILL NEED TO BE APPROVED AND COORDINATED WITH THE DESIGN TEAM PRIOR TO INSTALLATION.

O. DESIGN INTENT SHALL BE ALL MECHANICAL, ELECTRICAL, & PLUMBING RUNS WITHIN NEW ADMIN AREA, LOCKER ROOM & RESTROOMS SHALL BE RUN WITHIN NEW WALL ASSEMBLIES, ABOVE FINISH CEILING ASSEMBLIES OR TIGHT TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE ANY EXPOSED ROUTING WITHIN THESE SPACES WITH ARCHITECT & ENGINEER PRIOR TO FABRICATION & INSTALLATION.

POWER REFERENCED NOTES: (#)

1. COORDINATE LOCATION OF DROP-DOWN CORD REEL WITH OWNER PRIOR TO ROUGH-IN.
2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT PATHWAYS FOR SENSORS, CONTROLLER, AND POWER TO THE MOTOR FOR EACH OVERHEAD DOOR. MANUFACTURER SHALL FURNISH AND INSTALL THE OVERHEAD DOOR, ALL LOW VOLTAGE WIRING, AND ASSOCIATED OPENERS, AND SENSORS. COORDINATE ALL WORK WITH DOOR MANUFACTURER PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT PATHWAYS FOR SENSORS, CONTROLLER, AND POWER TO THE MOTOR FOR EACH OVERHEAD DOOR. ELECTRICAL CONTRACTOR SHALL REFEED EXISTING, RELOCATED OVERHEAD DOOR MOTOR AND COMPONENTS. REUSE EXISTING WIRE AND CONDUIT IF IN GOOD CONDITION.
4. COORDINATE FINAL ELECTRICAL CONNECTION AND LOCATION WITH PLYMOVENT INSTALLER.
5. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR BOX DIMENSIONAL LOCATIONS. COORDINATE FINAL ELECTRICAL LOCATION WITH ARCHITECT.
6. PROVIDE POWER CONNECTION TO FIRE ALARM CONTROL PANEL PER MANUFACTURER'S INSTRUCTIONS.
7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL PLUG MOLD ABOVE COUNTER. PLUG MOLD SHALL HAVE (4) DEDICATED CIRCUITS. COORDINATE FINAL ELECTRICAL CONNECTION AND LOCATION WITH ENGINEER AND ARCHITECT.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR EXISTING TO RELOCATE MINI-SPLIT. CONFIRM LOCATION AND POWER REQUIREMENTS WITH OWNER BEFORE ROUGH-IN.
9. ROUTE CONDUIT ON EXISTING CMU WALL IN MECHANICAL ROOM TO FLUSH MOUNTED RECEPTACLE IN TRAINING CLASSROOM.
10. WALL DEVICE SHALL BE RECESSED MOUNTED WITH CONDUIT WITHIN NEW CMU WALL. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
11. COORDINATE FUTURE LIGHT ROUGH-IN LOCATIONS WITH DESIGN TEAM PRIOR TO ROUGH-IN.
12. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION OF NEMA 10-50R WELDING RECEPTACLES.
13. PROVIDE CONDUIT PATHWAYS TO ABOVE STORAGE DOOR FOR FUTURE MINI SPLIT POWER.
14. ELECTRICAL CONTRACTOR SHALL COORDINATE GAS DETECTION CONTROL PANEL POWER REQUIREMENTS AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
15. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS BETWEEN EXTERIOR AND ABOVE APPARATUS STORAGE DOOR FOR EXISTING MINI SPLIT TO BE RELOCATED UNDER PROJECT SCOPE. COORDINATE WITH OWNER FOR EQUIPMENT SPECIFIC REQUIREMENTS. REUSE SAFETY SWITCH FROM EXISTING MINI SPLIT IF DEEMED IN GOOD CONDITION, ELSE, PROVIDE NEW HEAVY DUTY SAFETY DISCONNECT SWITCH.

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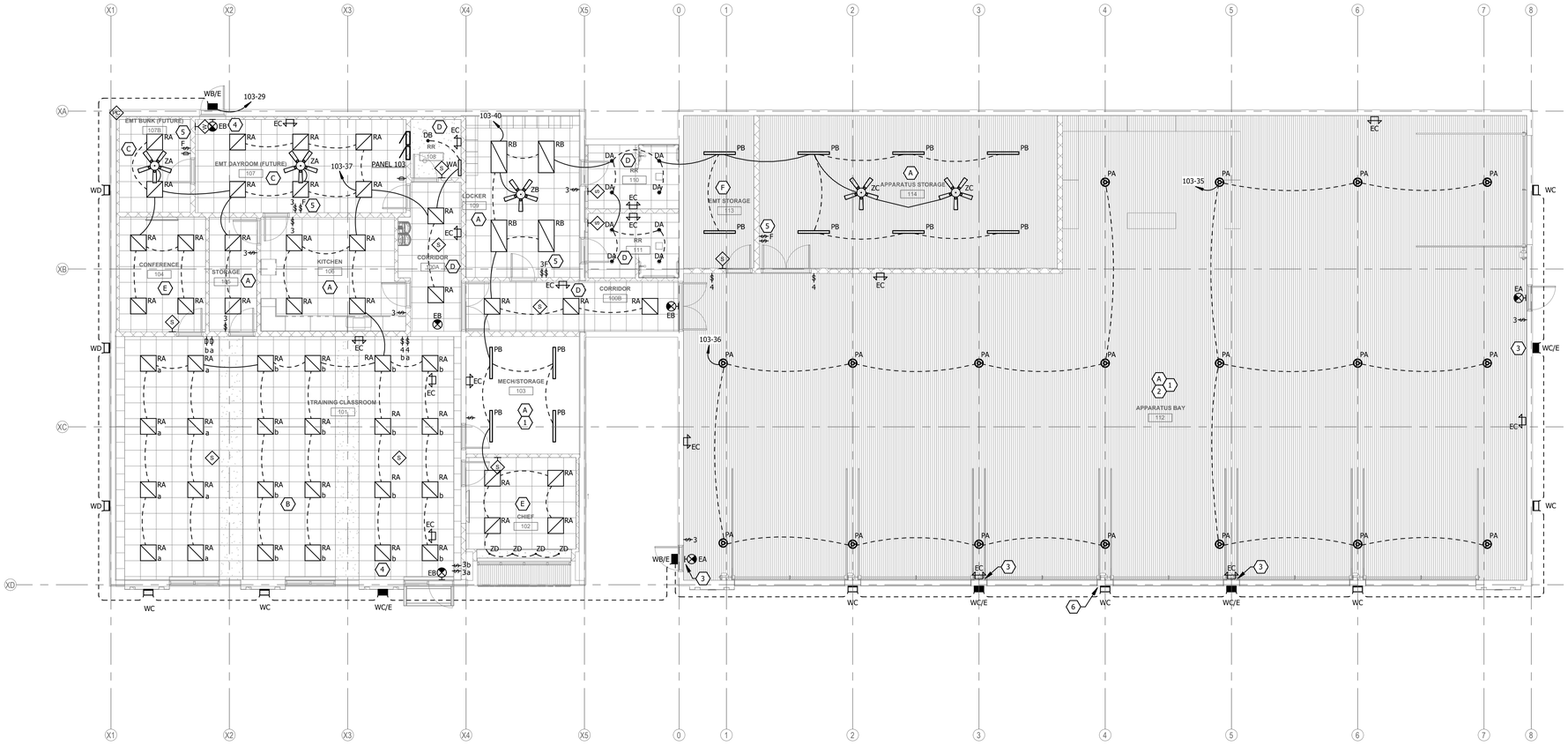
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PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET, STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025

PHASE: CD
SHEET NAME: ELECTRICAL POWER PLAN

E1.1



1 LIGHTING PLAN
1/8" = 1'-0"

LIGHTING GENERAL NOTES:

A. SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

B. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.

C. COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS AND CASEWORK SUBMITTALS.

D. ALL LIGHTING FIXTURES SHALL BE INSTALLED IN SUCH WAY THAT DRIVERS ARE ACCESSIBLE WITHOUT CUTTING OF CEILING. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF AREAS WHERE THIS IS NOT POSSIBLE.

E. ALL WALL-MOUNTED FIXTURES SHALL HAVE EXACT ROUGH-IN LOCATION DETERMINED BY DESIGN TEAM PRIOR TO ROUGH-IN.

F. THE ELECTRICAL CONTRACTOR SHALL EXTEND AN "UNSWITCHED" HOT CONDUCTOR FROM THE NEAREST NORMAL LIGHTING CIRCUIT TO EVERY UL924 LISTED EMERGENCY LIGHT AND EXIT SIGN REQUIRED FOR EMERGENCY EGRESS OPERATION. THE "UNSWITCHED" HOT CONDUCTOR SHALL BE USED FOR SENSING PURPOSES ONLY.

G. UNLESS NOTED OTHERWISE BY DESIGNATED "LIGHTING CONTROL ZONES", SWITCHLEG WIRING, AND LOWERCASE LETTER SWITCHLEG TAGS, SWITCHES SHOWN WILL CONTROL ALL FIXTURES IN THE ROOM SHOWN.

H. ALL LIGHTING CONTROL SHALL OPERATE "MANUAL ON/AUTO OFF" PER CODE (IECC OR ASHRAE 90.1) UNLESS OTHERWISE NOTED IN THE SEQUENCE OF OPERATIONS OR THESE REFERENCE NOTES.

I. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND RCP'S SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO ROUGH-IN. IF A DEVICE IS REQUIRED PER SPECIFICATION, REQUIRED FOR OPERATION, OR IS DIFFERENT IN CONFIGURATION THAN SHOWN ON ELEVATIONS AND RCP'S, CLARIFICATION AND DIRECTION MUST BE GIVEN BY THE ARCHITECT BEFORE ROUGH-IN. DEVIATIONS OR ADDITIONAL DEVICES NOT APPROVED PRIOR TO INSTALLATION SHALL BE CORRECTED AT CONTRACTORS EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO THERMOSTATS, CONTROL SYSTEM SENSORS, ELECTRICAL DEVICES, SWITCHES, DIMMERS, TECHNOLOGY DEVICES, A/V DEVICES, SPEAKERS, FIRE ALARM DEVICES, ETC.

J. CEILING CONTRACTOR SHALL PROVIDE AND INSTALL CEILING ACCESS PANELS FOR ACCESSIBILITY TO ELECTRICAL JUNCTION BOXES, PLUMBING VALVES, BALANCING DAMPERS, CIRCUIT SETTERS, ETC. WHERE ABSOLUTELY NECESSARY. LOCATIONS WILL NEED TO BE APPROVED AND COORDINATED WITH THE DESIGN TEAM PRIOR TO INSTALLATION.

K. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR WALLPACK LIGHTING HEIGHTS AFG.

L. SENSORS SHALL BE INSTALLED CENTERED IN CEILING TILES WHERE APPLICABLE.

M. EXISTING SITE LIGHTING TO BE REMOVED AS WORK BY THE CITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CITY TO AVOID INTERRUPTING THIS WORK.

LIGHTING REFERENCED NOTES: (#)

(NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

1. COORDINATE LIGHTING MOUNTED IN THIS AREA WITH MECHANICAL EQUIPMENT. LIGHTING SHALL BE MOUNTED BELOW EQUIPMENT AT ALL TIMES. OFFSET AS REQUIRED. REFER TO ARCHITECTURAL ELEVATIONS FOR INSTALLATION HEIGHTS.
2. COORDINATE FINAL LIGHT LOCATIONS WITH DESIGN TEAM PRIOR TO FINAL INSTALLATION. OFFSET AS NEEDED FOR MECHANICAL EQUIPMENT AND PLYMOVENT SYSTEM. LIGHTS SHALL BE INSTALLED WITH SURFACE BRACKET TO BOTTOM OF METAL LID, UNLESS DIRECTED OTHERWISE BY DESIGN TEAM. THERE SHALL BE A PRE-INSTALLATION MEETING FOR CEILING SYSTEMS IN THE APPARATUS BAY.
3. REMOTE BACKUP BATTERY SERVING EXTERIOR EMERGENCY LUMINAIRE SHALL BE INSTALLED ON INTERIOR WALL AT AN ACCESSIBLE LOCATION BEHIND LUMINAIRE. COORDINATE WITH OTHER EQUIPMENT OR WALL DEVICES.
4. REMOTE BACKUP BATTERY SERVING EXTERIOR EMERGENCY LUMINAIRE SHALL BE INSTALLED ABOVE CEILING AT AN ACCESSIBLE LOCATION BEHIND LUMINAIRE.
5. FAN CONTROL DEVICE. DEVICE SHALL BE GANGED WITH LIGHTING CONTROL SWITCH. SEE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
6. PROVIDE ROUGH-IN FOR FUTURE WARNING LIGHT. COORDINATE LOCATION WITH DESIGN TEAM PRIOR TO ROUGH-IN FOR FINAL COORDINATION WITH EMERGENCY LIGHT FIXTURE.

LIGHTING CONTROL - SEQUENCE OF OPERATION (A)

(HEXAGONAL TAGS WITH LETTERS INDICATE LIGHTING CONTROL SEQUENCES)

TAG	ACTIVATION	DESCRIPTION	SCHEDULE
A	MANUAL ON / OFF	MANUAL LINE VOLTAGE TOGGLE SWITCH(ES). PROVIDE 3- OR 4-WAY SWITCHING AS SHOWN ON PLANS. TOGGLE SWITCH GANGED WITH CEILING FAN CONTROL WHERE APPLICABLE.	N/A
B	MANUAL ON / AUTO OFF w/ DIMMING	MANUAL ON / AUTO OFF w/ DIMMING VIA LINE VOLTAGE WALL CONTROL STATION WITH 0-10V CAPABILITY, LINE VOLTAGE TOGGLE SWITCHES, AND LINE VOLTAGE CEILING CENSOR(S). SEE LOWERCASE LETTER SWITCHLEG TAGS WHERE APPLICABLE.	30 MINUTE TIMEOUT
C	MANUAL ON / OFF w/ DIMMING	MANUAL ON / MANUAL OFF w/ DIMMING VIA LINE VOLTAGE WALL CONTROL STATION WITH 0-10V CAPABILITY. WALL CONTROL STATION GANGED WITH CEILING FAN CONTROL WHERE APPLICABLE.	N/A
D	AUTO ON / AUTO OFF	AUTO ON / AUTO OFF VIA LINE VOLTAGE WALL OR CEILING MOUNTED SENSOR(S), AS APPROPRIATE.	30 MINUTE TIMEOUT
E	MANUAL ON / AUTO OFF w/ DIMMING	MANUAL ON / AUTO OFF w/ DIMMING VIA LINE VOLTAGE WALL SENSOR / SWITCH COMBINATION DEVICE WITH 0-10V DIMMING CAPABILITY.	30 MINUTE TIMEOUT
F	MANUAL ON / AUTO OFF	MANUAL ON / AUTO OFF VIA LINE VOLTAGE WALL SENSOR / SWITCH COMBINATION DEVICE.	30 MINUTE TIMEOUT
G	AUTO ON / AUTO OFF	AUTO ON / AUTO OFF VIA LINE VOLTAGE PHOTOCELL.	DUSK TO DAWN

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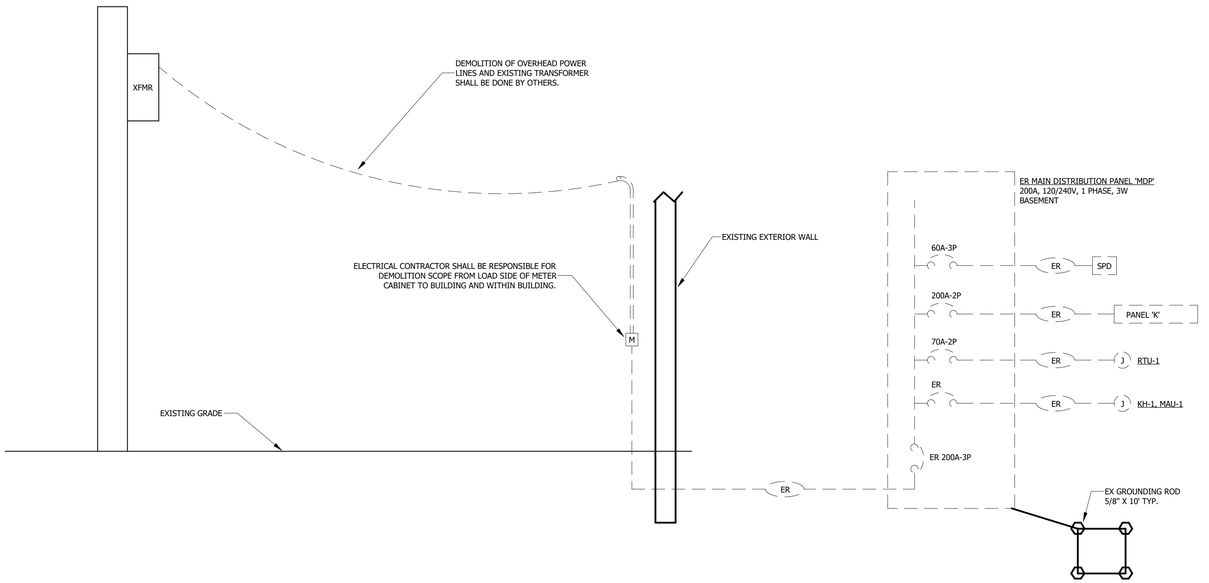
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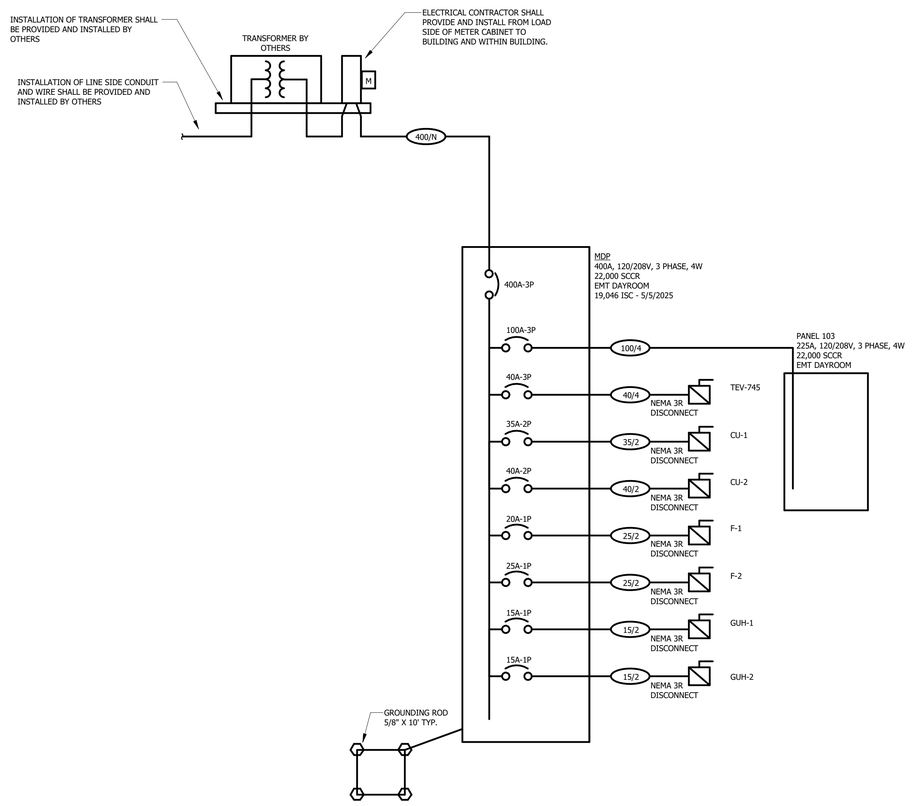
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E2.1

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2 EXISTING ONE-LINE DIAGRAM
No Scale



CONNECT GROUND FIELD WITH #3/0 GROUNDING ELECTRODE CONDUCTOR (NEC 250.66) USING EXOTHERMIC WELDS. BOND NEUTRAL AND GROUND AT MAIN DISTRIBUTION PANEL TO ESTABLISH SERVICE ENTRANCE NEUTRAL. REFER TO SPECIFICATIONS FOR ADDITIONAL GROUNDING DETAILS.

1 NEW ELECTRICAL ONE-LINE DIAGRAM
No Scale

SERVICE ENTRANCE
CONDUCTOR AND CONDUIT
SIZING CHART

	CONDUCTORS (THWN-2)			CONDUIT		PARALLEL RUNS
	PHASE	NEUTRAL	GROUND	RMC	SCH 40	
400/N	(3) 600 MCM	600 MCM	-	3-1/2"	4"	1

CONDUCTOR AND CONDUIT
SIZING CHART

	CONDUCTORS (THWN-2)			CONDUIT		PARALLEL RUNS
	PHASE	NEUTRAL	GROUND	EMT	SCH 40	
15/2	(2) #12 AWG	#12 AWG	#12 AWG	3/4"	3/4"	1
20/2	(2) #12 AWG	#12 AWG	#12 AWG	3/4"	3/4"	1
25/2	(2) #10 AWG	#10 AWG	#10 AWG	3/4"	3/4"	1
30/2	(2) #10 AWG	#10 AWG	#10 AWG	3/4"	3/4"	1
35/2	(2) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
40/2	(2) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
45/2	(2) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
50/2	(2) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
60/2	(2) #6 AWG	#6 AWG	#10 AWG	3/4"	3/4"	1
70/2	(2) #4 AWG	#4 AWG	#8 AWG	1"	1"	1
80/2	(2) #4 AWG	#4 AWG	#8 AWG	1"	1"	1
90/2	(2) #3 AWG	#3 AWG	#8 AWG	1-1/4"	1-1/4"	1
100/2	(2) #3 AWG	#3 AWG	#8 AWG	1-1/4"	1-1/4"	1
110/2	(2) #2 AWG	#2 AWG	#6 AWG	1-1/4"	1-1/4"	1
125/2	(2) #1 AWG	#1 AWG	#6 AWG	1-1/4"	1-1/4"	1
150/2	(2) 1/0 AWG	1/0 AWG	#6 AWG	1-1/2"	1-1/2"	1
175/2	(2) 2/0 AWG	2/0 AWG	#6 AWG	2"	2"	1
200/2	(2) 3/0 AWG	3/0 AWG	#6 AWG	2"	2"	1
225/2	(2) 4/0 AWG	4/0 AWG	#4 AWG	2"	2"	1
250/2	(2) 250 MCM	250 MCM	#4 AWG	2-1/2"	2-1/2"	1
300/2	(2) 350 MCM	350 MCM	#4 AWG	2-1/2"	2-1/2"	1

CONDUCTOR AND CONDUIT
SIZING CHART

	CONDUCTORS (THWN-2)			CONDUIT		PARALLEL RUNS
	PHASE	NEUTRAL	GROUND	EMT	SCH 40	
15/3	(3) #12 AWG	-	#12 AWG	3/4"	3/4"	1
20/3	(3) #12 AWG	-	#12 AWG	3/4"	3/4"	1
25/3	(3) #10 AWG	-	#10 AWG	3/4"	3/4"	1
30/3	(3) #10 AWG	-	#10 AWG	3/4"	3/4"	1
35/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1
40/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1
45/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1
50/3	(3) #8 AWG	-	#10 AWG	3/4"	3/4"	1
60/3	(3) #6 AWG	-	#10 AWG	3/4"	3/4"	1
70/3	(3) #4 AWG	-	#8 AWG	1"	1"	1
80/3	(3) #4 AWG	-	#8 AWG	1"	1"	1
90/3	(3) #3 AWG	-	#8 AWG	1-1/4"	1-1/4"	1
100/3	(3) #3 AWG	-	#8 AWG	1-1/4"	1-1/4"	1
110/3	(3) #2 AWG	-	#6 AWG	1-1/4"	1-1/4"	1
125/3	(3) #1 AWG	-	#6 AWG	1-1/4"	1-1/4"	1
150/3	(3) 1/0 AWG	-	#6 AWG	1-1/2"	1-1/2"	1
175/3	(3) 2/0 AWG	-	#6 AWG	2"	2"	1
200/3	(3) 3/0 AWG	-	#6 AWG	2"	2"	1
225/3	(3) 4/0 AWG	-	#4 AWG	2"	2"	1
250/3	(3) 250 MCM	-	#4 AWG	2-1/2"	2-1/2"	1
300/3	(3) 350 MCM	-	#4 AWG	2-1/2"	2-1/2"	1

CONDUCTOR AND CONDUIT
SIZING CHART

	CONDUCTORS (THWN-2)			CONDUIT		PARALLEL RUNS
	PHASE	NEUTRAL	GROUND	EMT	SCH 40	
15/4	(3) #12 AWG	#12 AWG	#12 AWG	3/4"	3/4"	1
20/4	(3) #12 AWG	#12 AWG	#12 AWG	3/4"	3/4"	1
25/4	(3) #10 AWG	#10 AWG	#10 AWG	3/4"	3/4"	1
30/4	(3) #10 AWG	#10 AWG	#10 AWG	3/4"	3/4"	1
35/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
40/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
45/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
50/4	(3) #8 AWG	#8 AWG	#10 AWG	3/4"	3/4"	1
60/4	(3) #6 AWG	#6 AWG	#10 AWG	1"	1"	1
70/4	(3) #4 AWG	#4 AWG	#8 AWG	1-1/4"	1-1/4"	1
80/4	(3) #4 AWG	#4 AWG	#8 AWG	1-1/4"	1-1/4"	1
90/4	(3) #3 AWG	#3 AWG	#8 AWG	1-1/4"	1-1/4"	1
100/4	(3) #3 AWG	#3 AWG	#8 AWG	1-1/4"	1-1/4"	1
110/4	(3) #2 AWG	#2 AWG	#6 AWG	1-1/4"	1-1/4"	1
125/4	(3) #1 AWG	#1 AWG	#6 AWG	1-1/2"	1-1/2"	1
150/4	(3) 1/0 AWG	1/0 AWG	#6 AWG	2"	2"	1
175/4	(3) 2/0 AWG	2/0 AWG	#6 AWG	2"	2"	1
200/4	(3) 3/0 AWG	3/0 AWG	#6 AWG	2"	2"	1
225/4	(3) 4/0 AWG	4/0 AWG	#4 AWG	2-1/2"	2-1/2"	1
250/4	(3) 250 MCM	250 MCM	#4 AWG	3"	3"	1
300/4	(3) 350 MCM	350 MCM	#4 AWG	3"	3"	1

3 CONDUCTOR AND CONDUIT CHART
No Scale

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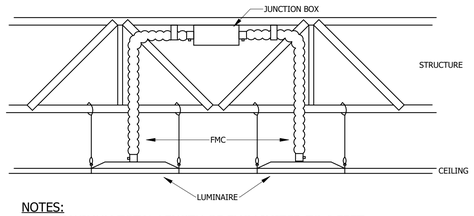
STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: ELECTRICAL ONE-LINE

MODUS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. WATERLOO, IOWA (319)235-0650
130 EAST 3RD ST. DES MOINES, IOWA (515)251-7280
118 EAST COLLEGE ST. IOWA CITY, IOWA (319)248-4600

E4.1



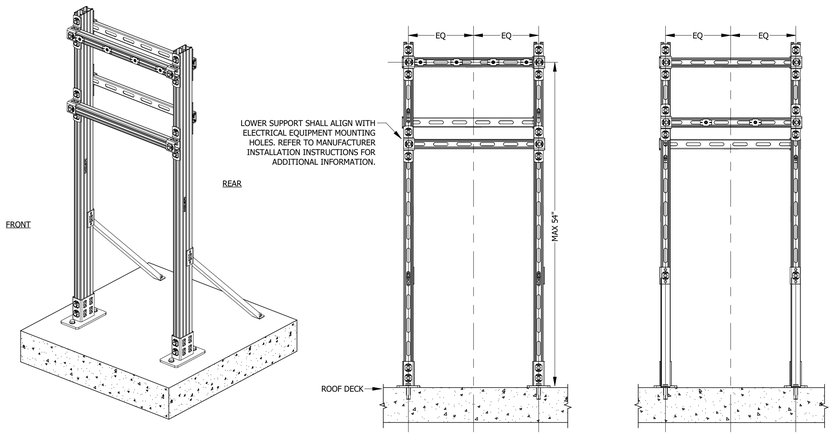
NOTES:

A. MAXIMUM TOTAL LENGTH OF FMC LIMITED TO 6 FEET WITHOUT SEPARATE EQUIPMENT GROUND CONDUCTOR.

B. LUMINAIRES SHALL NOT BE DAISY CHAINED TOGETHER WITH FMC.

C. REFER TO ARTICLE 250.118(5)D FOR ADDITIONAL DETAILS.

③ TYPICAL LIGHT FIXTURE WIRING DETAIL
No Scale



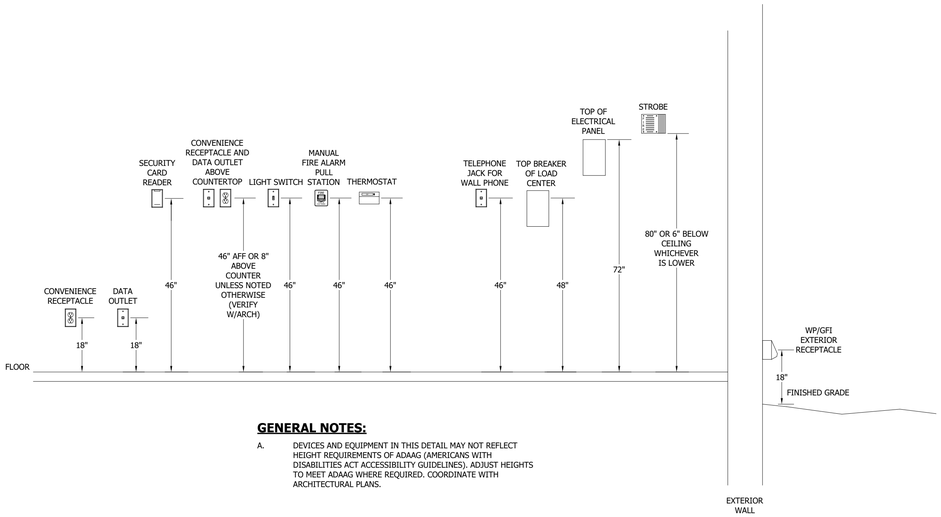
ISOMETRIC FRONT ELEVATION REAR ELEVATION

GENERAL NOTES:

A. PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND WORKING UNISTRUT SYSTEM.

B. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

② TYPICAL UNISTRUT MOUNTING DETAIL
No Scale



GENERAL NOTES:

A. DEVICES AND EQUIPMENT IN THIS DETAIL MAY NOT REFLECT HEIGHT REQUIREMENTS OF ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES). ADJUST HEIGHTS TO MEET ADAAG WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS.

① TYPICAL DEVICE ELEVATION DETAIL
No Scale

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STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025
PHASE: CD
SHEET NAME: ELECTRICAL DETAILS

E5.1

MODUS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. WATERLOO, IOWA (319)235-0650
130 EAST 3RD ST. DES MOINES, IOWA (515)251-7280
118 EAST COLLEGE ST. IOWA CITY, IOWA (319)248-4600

BRANCH MDP

Location: EMT DAYROOM (FUTURE)...
Supply From:
Mounting: Surface
Enclosure: Type 1
Available Isc: 19,046 A

Volts: 120/208 Wye
Phases: 3
Wires: 4

S.C.C.R. Rating: 22,000 AIC
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A
SPD: NONE

Notes:
PANEL SHALL BE RATED FOR SERVICE ENTRANCE

CKT	Circuit Description	Type	Trip	Poles	A		B		C		Poles	Trip	Type	Circuit Description	CKT
MDP-1	PANEL 103	N	100 A	3	7020	3358					3	40 A	N	TEV-745	MDP-2
MDP-3	--	--	--	--			7306	3358			--	--	--	--	MDP-4
MDP-5	--	--	--	--					6344	3358	--	--	--	--	MDP-6
MDP-7	RANGE	N	50 A	2	4725	3536					2	50 A	N	TANK FILLER	MDP-8
MDP-9	--	--	--	--			4725	3536			--	--	--	--	MDP-10
MDP-11	CU-1	N	35 A	2					3012	3012	2	40 A	N	CU-2	MDP-12
MDP-13	--	--	--	--	3012	3012					--	--	--	--	MDP-14
MDP-15	DRYER	G	30 A	2			2496	2496			2	30 A	G	DRYER	MDP-16
MDP-17	--	--	--	--					2496	2496	--	--	--	--	MDP-18
MDP-19	EF-4	N	25 A	2	1298	0					2	20 A	N	EXR MINI-SPLIT	MDP-20
MDP-21	--	--	--	--			1298	0			--	--	--	--	MDP-22
MDP-23	WELDING RECEPTACLE	N	50 A	2					4160	4160	2	50 A	N	WELDING RECEPTACLE	MDP-24
MDP-25	--	--	--	--	4160	4160					--	--	--	--	MDP-26
MDP-27	WELDING RECEPTACLE	N	50 A	2			4160	800			1	20 A	N	FRIDGE	MDP-28
MDP-29	--	--	--	--					4160	800	1	20 A	N	FRIDGE	MDP-30
MDP-31	F-1	N	20 A	1	1094	1382					1	25 A	N	F-2	MDP-32
MDP-33	GUH-1	N	15 A	1			1440	1440			1	15 A	N	GUH-2	MDP-34
MDP-35	RH-1	N	20 A	1					576	576	1	20 A	N	RH-2	MDP-36
MDP-37	WASHER	G	20 A	1	1920	1920					1	20 A	G	WASHER	MDP-38
MDP-39	AIR COMPRESSOR	N	20 A	1			1900	1900			1	20 A	N	AIR COMPRESSOR	MDP-40
MDP-41	CP-1	N	20 A	1					700	180	1	20 A	N	GWH-1	MDP-42
MDP-43	KITCHEN RECEPTS	N	20 A	1	360	180					1	20 A	N	KITCHEN RECEPTS	MDP-44
MDP-45	OVERHEAD DOOR	N	20 A	1			1130	1130			1	20 A	N	OVERHEAD DOOR	MDP-46
MDP-47	OVERHEAD DOOR	N	20 A	1					1130	1130	1	20 A	N	OVERHEAD DOOR	MDP-48
MDP-49	OVERHEAD DOOR	N	20 A	1	1130	1130					1	20 A	N	OVERHEAD DOOR	MDP-50
MDP-51	OVERHEAD DOOR	N	20 A	1			1130	36			1	15 A	N	HVLS-1	MDP-52
MDP-53	EF-1	N	20 A	1					20	20	1	20 A	N	EF-3	MDP-54
MDP-55	EF-2	N	20 A	1	20	70					1	20 A	N	EF-5	MDP-56
MDP-57	EF-4 DAMPER	N	20 A	1			18	0			1	20 A	N	SPARE	MDP-58
MDP-59	SPARE	N	20 A	1					0	0	1	20 A	N	SPARE	MDP-60
MDP-61	SPARE	N	20 A	1	0	0					1	20 A	N	SPARE	MDP-62
MDP-63	SPACE		--	1			--	--			1	--		SPACE	MDP-64
MDP-65	SPACE		--	1					--	--	1	--		SPACE	MDP-66
MDP-67	SPACE		--	1	--	--					1	--		SPACE	MDP-68
MDP-69	SPACE		--	1			--	--			1	--		SPACE	MDP-70
MDP-71	SPACE		--	1					--	--	1	--		SPACE	MDP-72
			Total Load:		43487 VA		40300 VA		38330 VA						
			Total Amps:		365 A		338 A		319 A						

Type Legend:
N=NORMAL G=GFI M=MOTORIZED E=EXISTING ST=SHUNT TRIP A=ARC FAULT H=HANDLE LOCK

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	27991 VA	100.00%	27991 VA		
Motor	12410 VA	103.83%	12885 VA	**Total Conn. Load:**	122.1 kVA
Other	720 VA	100.00%	720 VA	**Total Est. Demand:**	117.7 kVA
Power	3805 VA	100.00%	3805 VA	**Total Conn. Current:**	339 A
Heating	3456 VA	100.00%	3456 VA	**Total Est. Demand Current:**	327 A
Receptacles	20232 VA	74.71%	15116 VA		
Water Heater	180 VA	125.00%	225 VA		
Electric Clothes Dryer	21632 VA	100.00%	21632 VA		
Lighting - Exterior	240 VA	125.00%	300 VA		
Equipment	15392 VA	100.00%	15392 VA		
Kitchen Equipment	11050 VA	90.00%	9945 VA		
Lighting	5009 VA	125.00%	6261 VA		

Notes:
PANEL SHALL BE RATED FOR SERVICE ENTRANCE

LIGHTING FIXTURE SCHEDULE

TYPE	BOD MANUFACTURER	MODEL NUMBER	DESCRIPTION	LAMP/CCT/CRI	CONTROL	DELIVERED LUMENS	WATTS	VOLTS	EQUALS
DA	GOTHAM	EVO4SH-35/10-DFR-SOL-MVOLT-EZ1	4-INCH APERTURE RECESSED LED SHOWER DOWNLIGHT. BATWING DISTRIBUTION. TEXTURED LENS.	LED/3500K/85	NON-DIM	843	8.8	UNV	PRESCOLITE, LIGHTOLIER, PORTFOLIO
DB	GOTHAM	IVO4-D-10LM-35K-80CRI-WD-MIN10-MVOLT-ZT-NCH-P-AR-LSS-F	4-INCH APERTURE OPEN RECESSED LED DOWNLGIHT. 75-DEGREE DISTRIBUTION. CLEAR PARABOLIC REFLECTOR WITH SEMI-SPECULAR FINISH.	LED/3500K/80	NON-DIM	991	9.8	UNV	PRESCOLITE, LIGHTOLIER, PORTFOLIO
EA	DUAL-LITE	EVE-U-X-X-E	THERMOPLASTIC LED EXIT SIGN. UNIVERSAL MOUNTING. BACKUP BATTERY FOR 90-MINUTE EMERGENCY RUNTIME. FINISH AND LETTER COLOR SELECTED BY ARCHITECT DURING SUBMITTALS.	LED/COLOR	N/A	N/A	N/A	UNV	LITHONIA, EVENLITE, MULE, SURE-LITES
EB	COMPASS	CELR1XNE	ARCHITECTURAL EDGE-LIT LED EXIT SIGN. RECESSED MOUNTING FOR CEILING OR WALL. BACKUP BATTERY FOR 90-MINUTE EMERGENCY RUNTIME. BRUSHED ALUMINUM FINISH. LETTER COLOR SELECTED BY ARCHITECT DURING SUBMITTALS.	LED/COLOR	N/A	N/A	N/A	UNV	LITHONIA, EVENLITE, MULE, SURE-LITES
EC	DUAL-LITE	EV-2	LED BATTERY LIGHT FOR EMERGENCY LIGHTING. 90-MINUTE RUNTIME. WALL OR CEILING MOUNT. WHITE STANDARD, OPTIONAL BLACK FINISH TO BE SELECTED BY ARCHITECT DURING SUBMITTALS.	LED	N/A	N/A	N/A	UNV	LITHONIA, EVENLITE, MULE
PA	LITHONIA	REBL-ALO13-WD-UVOLT-SWW9-80CRI-L/DIM-X-REBLSMB1-X-M10	ROUND LED HIGH BAY LIGHT. SELECTABLE LUMENS AND CCT. SET SELECTABLE LUMENS TO 15,000. SET SELECTABLE CCT TO 5000K. SURFACE MOUNT BRACKET. FINISH TO BE SELECTED BY ARCHITECT DURING SUBMITTALS.	LED/SELECTABLE/80	NON-DIM	12,693 - 18,852	80 - 117	UNV	ENGINEER APPROVED
PB	LITHONIA	CSS-L48-ALO3-MVOLT-SWW3-80CRI-HC36 M12	4-FT CHAIN-HUNG LED STRIP LIGHT. SELECTABLE LUMENS AND CCT. SET SELECTABLE LUMENS AND CCT TO OWNER'S PREFERENCES.	LED/SELECTABLE/80	NON-DIM	3,851 - 5,884	27 - 43	UNV	COLUMBIA, DAY-BRITE CFI, METALUX
RA	COLUMBIA	CBT22-A-LSCS-EDD	2x2 RECESSED LED FLAT PANEL FOR LAY-IN CEILING INSTALLATION. SELECTABLE LUMENS AND CCT. SET SELECTABLE LUMENS AND CCT TO OWNER'S PREFERENCES.	LED/SELECTABLE/80	0-10V TO 1%	2,750 - 4,600 (NOM)	24 - 38	UNV	LITHONIA, DAY-BRITE CFI, METALUX
RB	COLUMBIA	CBT24-A-LSCS-EDD	2x4 RECESSED LED FLAT PANEL FOR LAY-IN CEILING INSTALLATION. SELECTABLE LUMENS AND CCT. SET SELECTABLE LUMENS AND CCT TO OWNER'S PREFERENCES.	LED/SELECTABLE/80	0-10V TO 1%	3,300 - 5,800 (NOM)	28 - 48	UNV	LITHONIA, DAY-BRITE CFI, METALUX
WA	LUX ILLUMINAIRE	EOS 2.0-W-D-ASY-375-2-35K-8-UNV-S1-X	2-INCH APERTURE LED LINEAR WALL-MOUNT LIGHT FOR VANITY. ASYMMETRIC DISTRIBUTION. REFER TO ARCHITECTURAL ELEVATIONS FOR INSTALLATION HEIGHT. FINISH SELECTED BY ARCHITECT DURING SUBMITTALS.	LED/3500K/80	NON-DIM	750 (NOM)	6.8	UNV	AXIS, LEDALITE, STARTEK
WB/E	CONTRACTOR TO HOLD AN ALLOWANCE OF $750 IN THEIR BID FOR WALL-MOUNTED LOW-PROFILE WALLPACK WITH EMERGENCY BACKUP. DIE-CAST ALUMINUM HOUSING, POLYESTER POWDER COAT FINISH. TYPE 2 DISTRIBUTION. IP65. REMOTE BACKUP BATTERY. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. FINISH SELECTED BY ARCHITECT DURING SUBMITTALS.								
WC	CONTRACTOR TO HOLD AN ALLOWANCE OF $750 IN THEIR BID FOR WALL-MOUNTED LOW-PROFILE WALLPACK. DIE-CAST ALUMINUM HOUSING, POLYESTER POWDER COAT FINISH. TYPE 3 DISTRIBUTION. IP65. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. FINISH SELECTED BY ARCHITECT DURING SUBMITTALS.								
WC/E	CONTRACTOR TO HOLD AN ALLOWANCE OF $750 IN THEIR BID FOR WALL-MOUNTED LOW-PROFILE WALLPACK WITH EMERGENCY BACKUP. DIE-CAST ALUMINUM HOUSING, POLYESTER POWDER COAT FINISH. TYPE 3 DISTRIBUTION. IP65. REMOTE BACKUP BATTERY. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. FINISH SELECTED BY ARCHITECT DURING SUBMITTALS.								
WD	CONTRACTOR TO HOLD AN ALLOWANCE OF $750 IN THEIR BID FOR WALL-MOUNTED LOW-PROFILE WALLPACK. DIE-CAST ALUMINUM HOUSING, POLYESTER POWDER COAT FINISH. TYPE 4 DISTRIBUTION. IP65. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. FINISH SELECTED BY ARCHITECT DURING SUBMITTALS.								
ZA	RP LIGHTING + FANS	FAN: 1037-1-WW-WW LIGHT UNIT: 1RP98LED WALL CONTROL: WC-8	3-BLADE, 44" SWEEP AC MOTOR CEILING FAN. 12-3/8" DEPTH. INTEGRAL LIGHT UNIT WITH DIMMING. WHITE FINISH. WALL 3-SPEED AND LIGHT ON/OFF/DIM SLIDE CONTROL STATION TO BE INCLUDED WITH EACH FAN.	LED/3000K/90	WALL STATION	843	45	120	ENGINEER APPROVED
ZB	RP LIGHTING + FANS	FAN: 1037-1-WW-WW WALL CONTROL: WC-13	3-BLADE, 44" SWEEP AC MOTOR CEILING FAN. 12-3/8" DEPTH. NO LIGHT UNIT. WHITE FINISH. WALL 4-SPEED SINGLE FAN SLIDE CONTROL STATION TO BE INCLUDED WITH EACH FAN.	NONE	WALL STATION	N/A	33	120	ENGINEER APPROVED
ZC	RP LIGHTING + FANS	FAN: 1037-1-WW-WW WALL CONTROL: WC-4	3-BLADE, 44" SWEEP AC MOTOR CEILING FAN. 12-3/8" DEPTH. NO LIGHT UNIT. WHITE FINISH. WALL 3-SPEED MULTIPLE FAN SLIDE CONTROL STATION - (1) TO BE INCLUDED FOR APPARATUS STORAGE 114.	NONE	WALL STATION	N/A	33	120	ENGINEER APPROVED
ZD	CONTRACTOR TO HOLD AN ALLOWANCE OF $100 IN THEIR BID FOR 120V LED LOW-PROFILE BUTTON LIGHT. DIE-CAST ALUMINUM WITH ACRYLIC DIFFUSER. SURFACE OR RECESS MOUNTED. (3) CCT SELECTABLE.								

NOTES:

1. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING SYSTEM.
2. CONTRACTOR SHALL INSTALL ALL FIXTURES PER MANUFACTURER RECOMMENDATIONS IN LOCATIONS SHOWN ON DRAWING AND NOTIFY DESIGN TEAM IF THIS IS NOT POSSIBLE PRIOR TO ROUGH-IN.
3. VERIFY ALL WALL MOUNTED FIXTURE LOCATIONS WITH THE LIGHTING DESIGNER AND ARCHITECT PRIOR TO ROUGH-IN.
4. ARCHITECT SHALL SELECT ALL FINISH/COLORS FROM MANUFACTURER STANDARDS AT TIME OF SUBMITTAL.
5. COORDINATE ALL DRIVERS WITH CONTROLS TO ENSURE FULL COMPATIBILITY.
6. VERIFY ALL FINAL CEILING TYPES AND MOUNTING CONFIGURATIONS PRIOR TO RELEASE OF FIXTURES.
7. PROVIDE LINE ITEM PRICING TO DISTRIBUTOR FOR INDIVIDUAL LIGHT FIXTURE TYPES. LIGHT FIXTURE PACKAGE AND LIGHTING CONTROLS PACKAGE SHALL BE QUOTED SEPARATELY UNDER THEIR RESPECTIVE SPECIFICATION SECTIONS.
8. LIGHTING PRODUCTS SHALL BE PROVIDED THROUGH THE AUTHORIZED LIGHTING MANUFACTURER'S REPRESENTATIVE WITHIN THE PROJECT LOCATION.
9. SUBMITTALS SHALL BE PRODUCED AND SUBMITTED BY LOCAL AUTHORIZED LIGHTING MANUFACTURER'S REPRESENTATIVE. SUBMITTAL SHALL CONTAIN LETTERHEAD WITH REPRESENTATIVES' CONTACT INFORMATION, PROJECT NAME, AND PROJECT LOCATION.

LIGHT FIXTURE SCHEDULE BY: ADAM VANDER HELM, LC - AVANDERHELM@MODUS-ENG.COM

BRANCH PANEL 103

Location: EMT DAYROOM (FUTURE)...
Supply From: MDP
Mounting: Surface
Enclosure: Type 1
Available Isc:

Volts: 120/208 Wye
Phases: 3
Wires: 4

S.C.C.R. Rating: 22,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: NONE
SPD: NONE

Notes:
225 A PANEL MAIN FED FROM A 100 A BREAKER IN MDP IN ORDER TO ACHIEVE MORE BREAKER CAPACITY.

CKT	Circuit Description	Type	Trip	Poles	A		B		C		Poles	Trip	Type	Circuit Description	CKT
103-1	EMT DAYROOM RECEPTS	N	20 A	1	840	360					1	20 A	N	EMT BUNK RECEPTS	103-2
103-3	CONFERENCE RECEPTS	N	20 A	1			840	360			1	20 A	N	STORAGE & KITCHEN...	103-4
103-5	TRAINING CLASSROOM...	N	20 A	1					840	360	1	20 A	N	TRAINING CLASSROOM...	103-6
103-7	CORRIDOR RECEPTS	N	20 A	1	540	720					1	20 A	N	TRAINING CLASSROOM...	103-8
103-9	BATHROOM RECEPTS	N	20 A	1			1080	100			1	20 A	N	FACP	103-10
103-11	EWC-1	G	20 A	1					700	1000	1	20 A	N	IT RACK	103-12
103-13	CHIEF OFFICE RECEPTS	N	20 A	1	660	360					1	20 A	N	EXT RECEPTS	103-14
103-15	EMT STORAGE RECEPTS	N	20 A	1			540	840			1	20 A	N	APPARATUS STORAGE...	103-16
103-17	APPARATUS STORAGE...	N	20 A	1					540	18	1	20 A	N	GAS DETECTION	103-18
103-19	APPARATUS BAY...	N	20 A	1	738	360					1	20 A	N	EXT RECEPTS	103-20
103-21	CLING DROP-DOWN...	G	20 A	1			180	180			1	20 A	G	CLING DROP-DOWN...	103-22
103-23	CLING DROP-DOWN...	G	20 A	1					180	180	1	20 A	G	CLING DROP-DOWN...	103-24
103-25	CLING DROP-DOWN...	G	20 A	1	180	180					1	20 A	G	CLING DROP-DOWN...	103-26
103-27	CLING DROP-DOWN...	G	20 A	1			180	180			1	20 A	G	PLUG MOLD	103-28
103-29	EXTERIOR LIGHTS	N	20 A	1					240	180	1	20 A	G	PLUG MOLD	103-30
103-31	CARD READER	N	20 A	1	25	180					1	20 A	G	PLUG MOLD	103-32
103-33	BEV COOLER	G	20 A	1			800	180			1	20 A	G	PLUG MOLD	103-34
103-35	APP BAY LIGHTS	N	20 A	1					1053	1053	1	20 A	N	APP BAY LIGHTS	103-36
103-37	WEST LIGHTS	N	20 A	1	1777	100					1	20 A	N	FUTURE LIGHTS	103-38
103-39	APPARATUS BAY...	N	20 A	1			720	1126			1	20 A	N	CENTRAL LIGHTS	103-40
103-41	SPARE	N	20 A	1					0	0	1	20 A	N	SPARE	103-42
103-43	SPARE	N	20 A	1	0	0					1	20 A	N	SPARE	103-44
103-45	SPARE	N	20 A	1			0	0			1	20 A	N	SPARE	103-46
103-47	SPACE		--	1					--	--	1	--		SPACE	103-48
103-49	SPACE		--	1	--	--					1	--		SPACE	103-50
103-51	SPACE		--	1			--	--			1	--		SPACE	103-52
103-53	SPACE		--	1					--	--	1	--		SPACE	103-54
			Total Load:		7020 VA		7306 VA		6344 VA						
			Total Amps:		59 A		62 A		53 A						

Type Legend:
N=NORMAL G=GFI M=MOTORIZED E=EXISTING ST=SHUNT TRIP A=ARC FAULT H=HANDLE LOCK

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	36 VA	100.00%	36 VA		
Other	720 VA	100.00%	720 VA	**Total Conn. Load:**	20.7 kVA
Power	3445 VA	100.00%	3445 VA	**Total Est. Demand:**	21.4 kVA
Receptacles	11220 VA	94.56%	10610 VA	**Total Conn. Current:**	57 A
Lighting - Exterior	240 VA	125.00%	300 VA	**Total Est. Demand Current:**	59 A
Lighting	5009 VA	125.00%	6261 VA		

Notes:
225 A PANEL MAIN FED FROM A 100 A BREAKER IN MDP IN ORDER TO ACHIEVE MORE BREAKER CAPACITY.

FLOOR BOX SCHEDULE

TYPE	MANUFACTURER	MODEL	DIMENSION	DEVICES	DESCRIPTION
FB-1	LEGRAND HUBBELL STEEL CITY	880CS2 SERIES B4233 SERIES 642 SERIES	8.5"L x 5.5"W x 4"D	2-GANG: (1) POWER, (1) DATA/AV	STANDARD FULLY ADJUSTABLE FLUSH TYPE FLOOR BOX FOR INSTALLATION IN CONCRETE SLAB OR FOR SLAB ON-GRADE APPLICATIONS, CAST IRON, DIE CAST BRUSHED ALUMINUM COVER ASSEMBLY, VERIFY FLANGE TYPE WITH ARCHITECT DURING SHOP DRAWING REVIEW. REFER TO DRAWINGS FOR TELECOM TERMINATION REQUIREMENTS AND TYPES.

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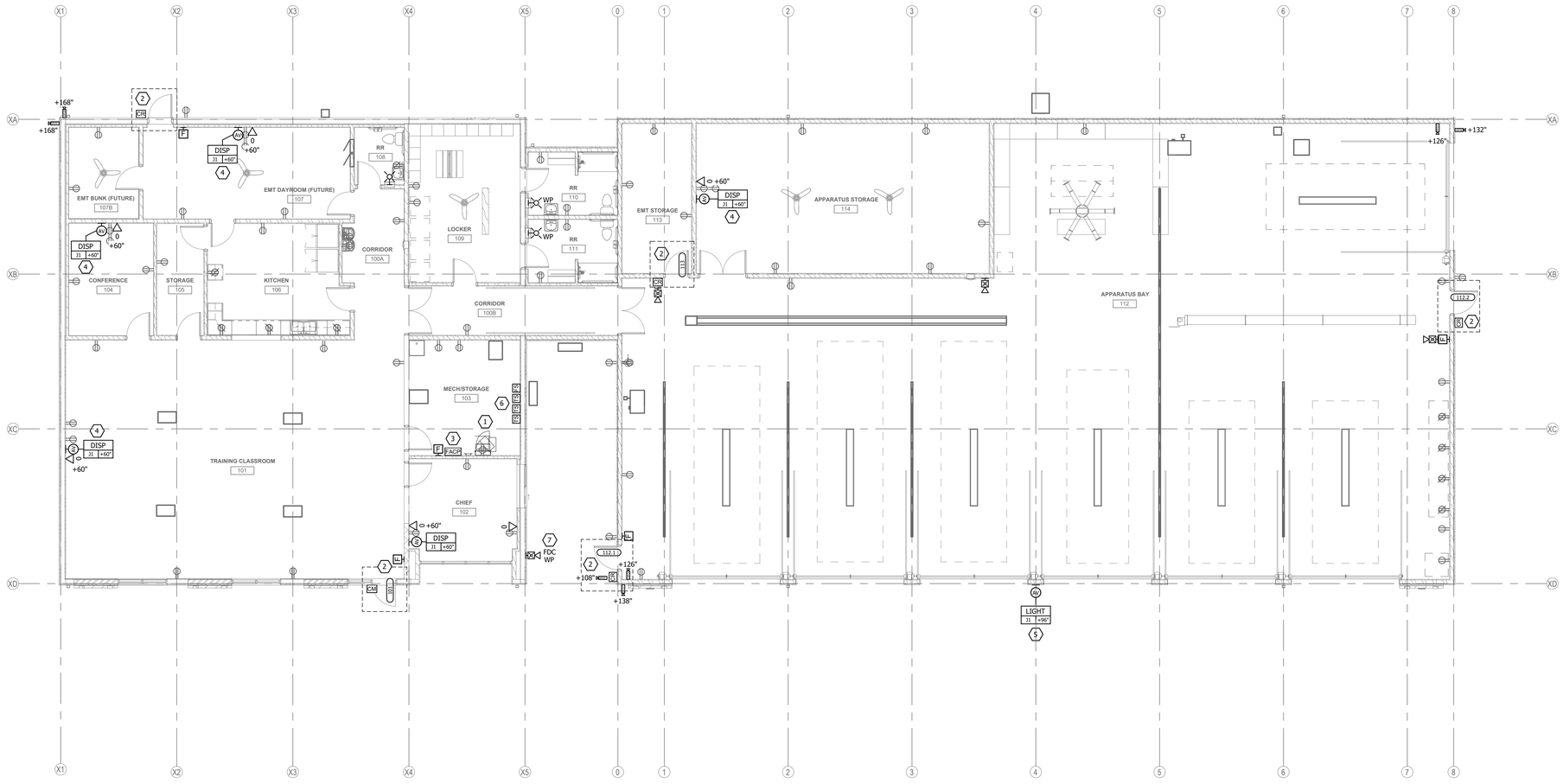
STUDIO MELEE
139 4th STREET
DES MOINES, IOWA 50265

PROJECT: STATE CENTER FIRE STATION
ADDRESS: 109 E MAIN STREET; STATE CENTER, IA 50247
CLIENT: STATE CENTER FIRE DEPARTMENT

PRINT DATE: 12.18.2025

PHASE: CD
SHEET NAME: ELECTRICAL SCHEDULES

E6.1



N

1 LOW VOLTAGE PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. SURFACE RACEWAY IS NOT TO BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

B. PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.

C. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.

D. COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR CONTRACTOR PRIOR TO INSTALLATION.

E. COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS, CASEWORK SUBMITTALS, & OWNER PROVIDED EQUIPMENT.

F. ALL DEVICES CALLED OUT TO BE INSTALLED AT NON-STANDARD HEIGHTS SHALL BE VERIFIED WITH DESIGN TEAM PRIOR TO ROUGH-IN.

G. ALL NEW WORK INDICATED IN EXISTING WALLS SHALL BE INSTALLED WITH CONCEALED WIRING AND FLUSH-MOUNTED DEVICES. CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR.

H. FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED WITHIN 36 INCHES HORIZONTALLY FROM FORCED AIR HVAC DIFFUSERS OR THE END OF CEILING FAN BLADES.

I. **WIRELESS ACCESS POINTS AND CABLING SHALL BE OWNER FURNISHED, OWNER INSTALLED. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY. ROUGH-IN SHALL INCLUDE A STANDARD 1-GANG BACKBOX AND 1" CONDUIT BACK TO IT RACK. ELECTRICAL CONTRACTOR SHALL PROVIDE BLANK COVER PLATE. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.**

J. **SECURITY CAMERAS, MOUNTS, AND CABLING SHALL BE OWNER FURNISHED, OWNER INSTALLED. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY. ROUGH-IN SHALL INCLUDE A STANDARD 1-GANG BACKBOX AND 1" CONDUIT BACK TO IT RACK. ELECTRICAL CONTRACTOR SHALL PROVIDE BLANK COVER PLATE. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.**

REFERENCED NOTES: (#)

(NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

1. TELECOM RACK LOCATION. CONTRACTOR SHALL PROVIDE WALL MOUNT RACK AND GROUNDING BUSBAR. WALL CONTAINING LOW VOLTAGE EQUIPMENT SHALL HAVE FIRE RETARDANT PLYWOOD MOUNTED 10" AFF. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RETARDANT PAINT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL EQUIPMENT SHALL HAVE THE REQUIRED GROUNDING AND BONDING CONNECTIONS AS ILLUSTRATED IN THESE DETAILS AND OUTLINED IN SPECIFICATIONS.
2. ACCESS CONTROLLED DOOR. REFER TO LOW VOLTAGE DETAILS AND ARCHITECTURAL SPECIFICATION SECTION 08-7100 FOR OPERATION AND FURTHER ROUGH-IN/BIDDING INFORMATION. COORDINATE ALL CARD READERS, ADA PUSHBUTTONS, AND OTHER ACCESSORIES WITH ARCHITECT AND DESIGN TEAM PRIOR TO ROUGH-IN.
3. LOCATION OF FIRE ALARM CONTROL PANEL. CABINET SHALL BE RECESSED INTO WALL. COORDINATE ROUGH IN REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
4. DISPLAY AND MOUNT SHALL BE OWNER FURNISHED, OWNER INSTALLED. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
5. EMERGENCY RESPONSE AND DISPATCH SYSTEM LIGHT AND CABLING SHALL BE OWNER FURNISHED AND INSTALLED. ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE-GANG ROUGH-IN ONLY.
6. FLOW AND TAMPER SWITCHES SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR. PROVIDE SUPERVISING CONNECTIONS TO FIRE SPRINKLER FOR THE SPRINKLER SYSTEM. COORDINATE FINAL DEVICE LOCATIONS WITH THE SPRINKLER CONTRACTOR.
7. FIRE DEPARTMENT CONNECTION (FDC). FIRE ALARM CONTRACTOR SHALL PROVIDE WEATHER PROOF HORN STROBE FOR ACTIVATION ON WATER FLOW. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN AND COORDINATE MOUNTING.
8. MECHANICAL CONTRACTOR FIRE/SMOKE DAMPER. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTOR AND RELAY. COORDINATE LOCATIONS AND REQUIREMENTS FOR SMOKE AND FIRE/SMOKE DAMPERS WITH THE MECHANICAL CONTRACTOR. COORDINATE REMOTE TEST SWITCH LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO MECHANICAL PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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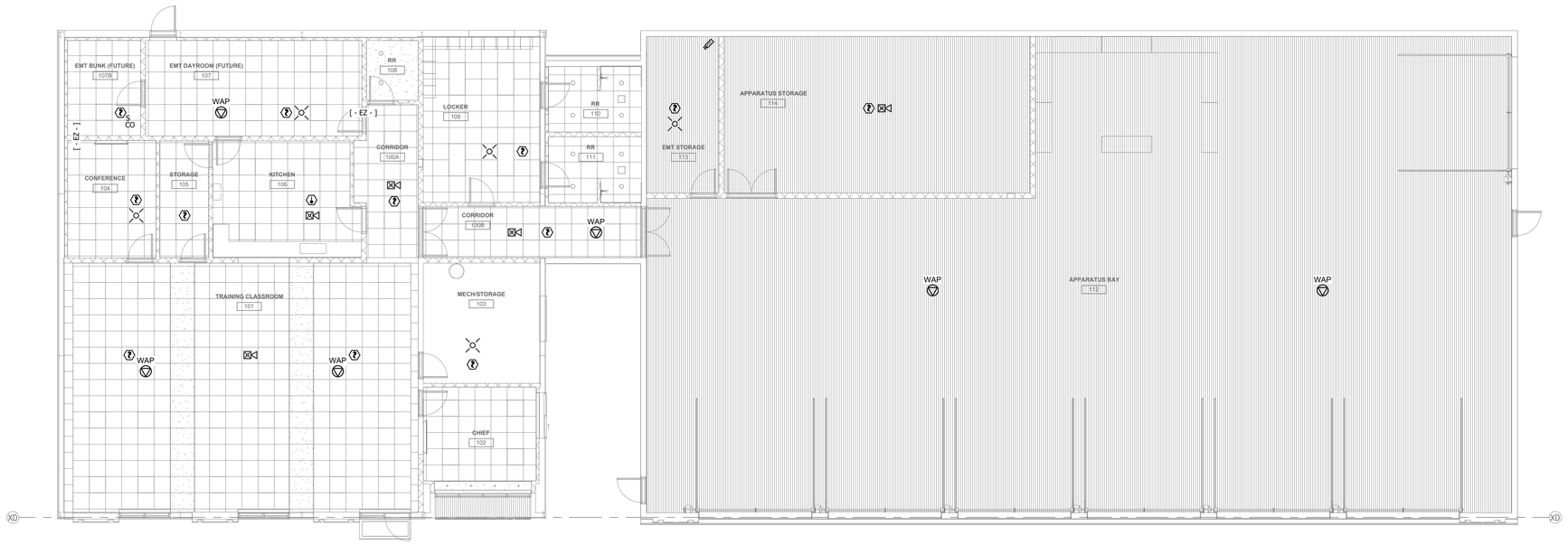
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CLIENT: STATE CENTER FIRE DEPARTMENT

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SHEET NAME: LOW VOLTAGE PLAN

T1.1

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N

1 LOW VOLTAGE CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. SURFACE RACEWAY IS NOT TO BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

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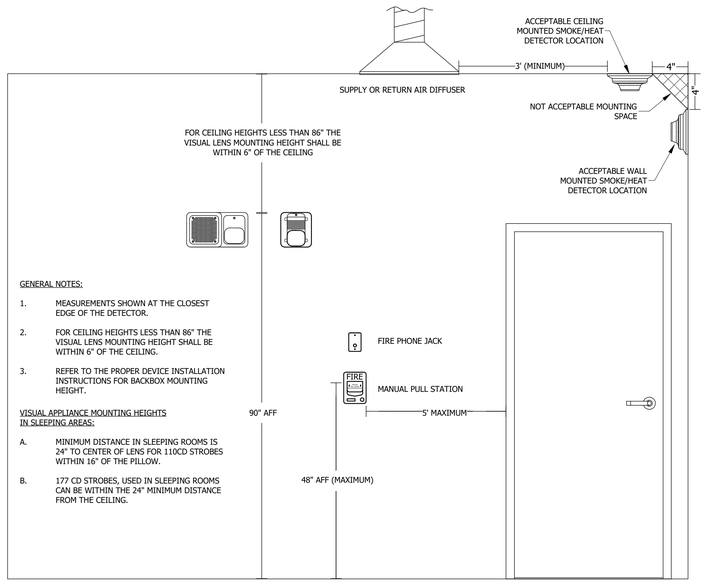
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T2.1

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GENERAL NOTES:

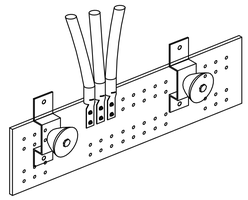
1. MEASUREMENTS SHOWN AT THE CLOSEST EDGE OF THE DETECTOR.
2. FOR CEILING HEIGHTS LESS THAN 86" THE VISUAL LENS MOUNTING HEIGHT SHALL BE WITHIN 6" OF THE CEILING.
3. REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT.

VISUAL APPLIANCE MOUNTING HEIGHTS IN SLEEPING AREAS:

A. MINIMUM DISTANCE IN SLEEPING ROOMS IS 24" TO CENTER OF LENS FOR 110CD STROBES WITHIN 16" OF THE PILLOW.

B. 177 CD STROBES, USED IN SLEEPING ROOMS CAN BE WITHIN THE 24" MINIMUM DISTANCE FROM THE CEILING.

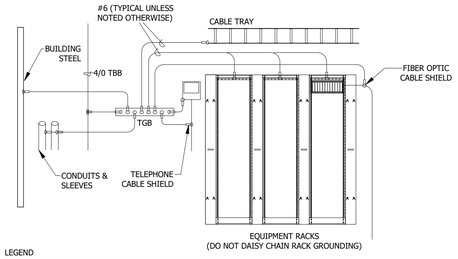
1 FIRE ALARM MOUNTING DETAILS
No Scale



GROUND BAR NOTES:

1. INSTALL A 1/4" X 4" X 24" SOLID COPPER GROUND BAR WITH INSULATORS AND BRACKETS EQUAL TO ERITECH "EGBA" SERIES GROUND BAR ADJACENT TO EACH SERVICE ENTRANCE.
2. GROUND BAR SHALL HAVE A MINIMUM AMPACITY EQUIVALENT TO THE MINIMUM SIZE OF THE GROUNDING ELECTRODE CONDUCTOR ALLOWED BY NEC TABLE 250.66
3. GROUND BAR SHALL HAVE 50% OF ITS OPENINGS UNUSED.

2 LOW VOLTAGE GROUND BAR DETAIL
No Scale



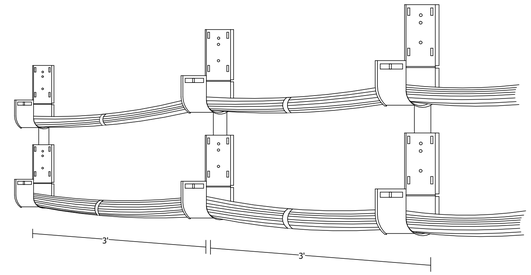
LEGEND

- DOUBLE LUG CONNECTOR
- CRIMP STYLE IRREVERSIBLE CONNECTION (H-TAP)
- **TGB** TELECOMMUNICATIONS GROUNDING BUSBAR
- **TBB** TELECOMMUNICATIONS BONDING BACKBONE

NOTES:

1. PROVIDE GROUND CONDUCTOR TO MAIN TELECOM GROUND BUS BAR OR MAIN ELECTRICAL SERVICE PANEL.

3 LOW VOLTAGE GROUNDING DIAGRAM
No Scale



J-HOOK PATHWAY GENERAL NOTES:

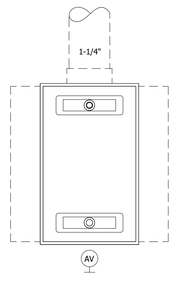
A. **THIS DETAIL ILLUSTRATES ACCEPTABLE INSTALLATION PRACTICES IN ACCESSIBLE CEILING AREAS. IN EXPOSED CEILING LOCATIONS, CABLING SHALL BE CONCEALED IN CONDUIT.**

B. J-HOOKS SHALL BE SPACED 3 FEET APART ON CENTER AND AT A MAXIMUM OF NO MORE THAN 5 FEET APART IN SPACES WHERE 3 FEET IS NOT AN OPTION. LOOSELY BUNDLE CABLE AND MANAGE UTILIZING VELCRO STRIPS.

C. KEEP ALL DATA CABLING ISOLATED FROM OTHER SYSTEMS. J-HOOK SYSTEM SHALL ALLOW OTHER HOOKS TO ATTACH IN A STACKING METHOD. KEEP FIRE ALARM CABLING IN ITS OWN HOOK PATHWAY.

D. WHEN CABLING IS ROUTED TO A CEILING DEVICE, CABLING SHALL BE SUPPORTED AND CABLING KEPT OFF OF ALL CEILING TILES AND ABOVE CEILING EQUIPMENT.

4 J-HOOK PATHWAY DETAIL
No Scale



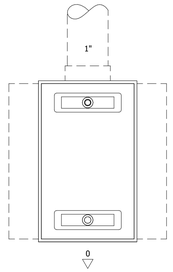
NOTES:

A. MINIMUM CONDUIT SIZE FOR ROUGH-IN SHALL BE 1-1/4". REFER TO SPECIFICATIONS FOR DETAILS.

B. DETAILS ARE DRAWN BASED ON STUD TYPE CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) 4-11/16" BACKBOX FOR ALL LOW VOLTAGE OUTLETS WITH A SINGLE GANG OPENING. IF OUTLET IS LOCATED INSIDE A CONCRETE WALL, ELECTRICAL CONTRACTOR SHALL UTILIZE A SINGLE GANG DEEP MASONRY BOX FOR ROUGH-IN PURPOSES.

C. STRUCTURED CABLING SUBCONTRACTOR SHALL PROVIDE BLANK FACEPLATE AS SHOWN.

5 TELECOM DEVICE DETAIL AV
No Scale



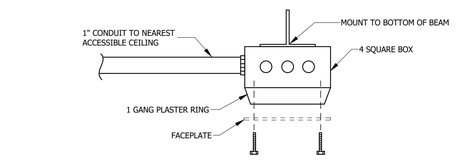
NOTES:

A. MINIMUM CONDUIT SIZE FOR LOW VOLTAGE WIRING SHALL BE 1". REFER TO SPECIFICATIONS FOR DETAILS.

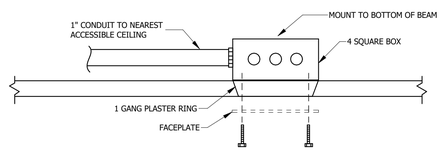
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C. STRUCTURED CABLING SUBCONTRACTOR SHALL PROVIDE BLANK FACEPLATE AS SHOWN.

6 TELECOM DEVICE DETAIL CAT6
No Scale



FOR EXPOSED CEILING



FOR HARD CEILING

7 LOW VOLTAGE CEILING ROUGH-IN DETAIL
No Scale

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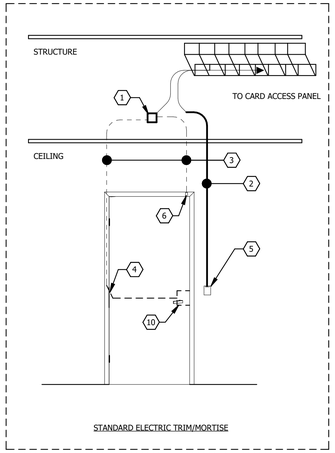
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CLIENT: STATE CENTER FIRE DEPARTMENT

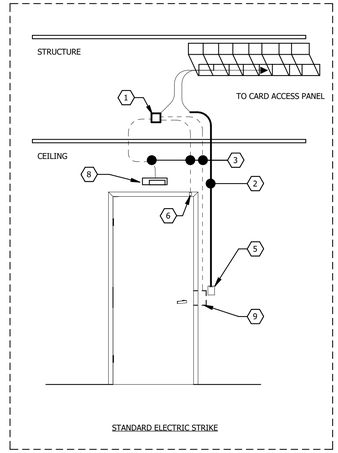
PRINT DATE: 12.18.2025
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SHEET NAME: LOW VOLTAGE DETAILS

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214 EAST 4TH ST. WATERLOO, IOWA (319)235-0650
130 EAST 3RD ST. DES MOINES, IOWA (515)251-7280
118 EAST COLLEGE ST. IOWA CITY, IOWA (319)248-4600



STANDARD ELECTRIC TRIM/MORTISE



STANDARD ELECTRIC STRIKE

ACCESS CONTROL GENERAL NOTES:

A. DETAIL DRAWINGS ARE INTENDED TO REFLECT ACCEPTABLE INSTALLATION PRACTICES. INDIVIDUAL DOOR OPENINGS ARE NOT SHOWN AND WILL NEED TO BE COORDINATED WITH DIV 08 7100 SPECIFICATION. FINAL ROUGH IN DRAWINGS FOR INDIVIDUAL DOORS SHALL BE PROVIDED BY SECURITY CONTRACTOR.

B. COORDINATE FIRE ALARM DOOR RELEASE CONNECTIONS WITH FIRE ALARM CONTRACTOR.

C. COORDINATE EXACT LOCATIONS OF PUSH BUTTONS, CARD READERS, AND DURESS BUTTONS WITH OWNER.

ACCESS CONTROL REFERENCED NOTES:

1. 4 SQ JUNCTION BOX - PROVIDED BY ELECTRICAL CONTRACTOR IN ACCESSIBLE CEILING SPACE ON SECURE SIDE OF DOOR.
2. 3/4" CONDUIT RACEWAY WITH STRING - PROVIDED BY ELECTRICAL CONTRACTOR
3. 1/2" FLEX RACEWAY WITH STRING - PROVIDED BY ELECTRICAL CONTRACTOR
4. POWER TRANSFER HINGE - PROVIDED BY OWNER OR OWNER'S DOOR HARDWARE CONTRACTOR. COORDINATE WITH DIVISION 08 CONTRACTOR ON FINAL LOCK CONNECTIONS WITH SYSTEMS BEING PROVIDED.
5. CARD READER - PROVIDED BY OWNER OR OWNER'S SECURITY CONTRACTOR
6. DOOR POSITION SWITCH - COORDINATE LOCATION WITH OWNER OR OWNER'S DOOR HARDWARE CONTRACTOR
7. ELECTRIFIED EXIT LOCK HARDWARE - PROVIDED BY OWNER OR OWNER'S DOOR HARDWARE CONTRACTOR
8. MOTION REQUEST TO EXIT - PROVIDED BY OWNER OR OWNER'S SECURITY CONTRACTOR
9. ELECTRIFIED STRIKE - PROVIDED BY OWNER OR OWNER'S DOOR HARDWARE CONTRACTOR
10. MORTISE LOCK - PROVIDED BY OWNER OR OWNER'S DOOR HARDWARE CONTRACTOR

1 ACCESS CONTROL DETAIL
No Scale

MATRIX OF RESPONSIBILITIES FOR DOOR HARDWARE

ELECTRICAL CONTRACTOR (SPECIFICATION SECTION 26)

ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- CONDUIT PATHWAYS, SLEEVES AND PENETRATIONS FROM ACCESS CONTROL HEAD END LOCATION TO EACH DOOR'S RESPECTIVE JUNCTION BOX. TREAT EACH THROUGH PENETRATION AS A ONE HOUR RATED WALL AND PROVIDE APPROPRIATE FIRE STOPPING REQUIRED.
- ALL CONDUIT PATHWAYS FROM EACH RESPECTIVE DOOR'S JUNCTION BOX OR ACCESS CONTROL ENCLOSURE TO THE FRAME OF THE DOOR FOR EACH REQUIRED DEVICE.
- ALL CONDUIT PATHWAYS AS IT IS REQUIRED FOR THE AUTOMATIC DOOR OPERATORS AND ACTUATORS.
- ALL REQUIRED ROUGH-IN AND JUNCTION BOXES FOR ACCESS CONTROL SYSTEM'S PROXIMITY CARD READERS, AUTOMATIC DOOR OPENER ACTUATORS, AUXILIARY ALARM DEVICES AND J-BOX WIRING POINTS AS SHOWN IN THE DETAILS.
- ALL 110VAC CIRCUITS FOR ACCESS CONTROL POWER SUPPLIES, AUTOMATIC DOOR OPERATORS AND ANY CENTRALIZED POWER SUPPLIES AT THE ACCESS CONTROL HEAD END. COORDINATE WITH INSTALLING CONTRACTORS FOR THE ACCESS CONTROL SYSTEM, AUTOMATIC DOOR OPERATORS AND DOOR HARDWARE PROVIDERS ON SPECIFIC NEEDS. REFER TO POWER PLANS FOR CIRCUITING INFORMATION.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PULLING THE HARDWARE CABLING THROUGH THE FRAME AND SHALL EITHER COORDINATE WITH THE HARDWARE INSTALLER OR THEIR ACCESS CONTROL SUB TO ENSURE THAT THIS GETS DONE APPROPRIATELY DURING ROUGH-IN AND FRAME INSTALLATION AND/OR RETROFITTING OF EXISTING DOORS.

OWNER OR OWNER'S DOOR HARDWARE CONTRACTOR (SPECIFICATION SECTION 08 7100)

DOOR HARDWARE CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- ALL ELECTRIFIED LOCKSETS, STRIKES, PANIC BARS AND INTEGRATED PROXIMITY READER/MAGSTRIPE LOCKSETS SHALL BE PROVIDED AND INSTALLED BY DOOR HARDWARE CONTRACTOR.
- ADA OPERATORS SHALL BE PROVIDED BY DOOR HARDWARE CONTRACTOR AND INSTALLED ONLY BY A CERTIFIED AUTO OPERATOR INSTALLER. FINAL POWER CONNECTION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- COORDINATE ALL POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ALL OTHER MECHANICAL AND NON-ELECTRIFIED DOOR HARDWARE COMPONENTS INCLUDING BUT NOT LIMITED TO, LOCKSETS, CYLINDERS, HINGES, KICKPLATES, SEALS, WALL STOPS, GASKETS, CLOSERS AND PUSHPLATES SHALL ALL BE PROVIDED AND INSTALLED BY THE DOOR HARDWARE CONTRACTOR.
- DOOR HARDWARE SUPPLIER SHALL SUPPLY ALL APPROPRIATE POWER SUPPLIES NEEDED TO CONTROL AND HANDLE THE APPROPRIATE POWER REQUIREMENTS OF THE ELECTRIFIED HARDWARE THEY ARE PROVIDING.
- COORDINATE ALL INTEGRAL ACCESS CONTROL DEVICES SUCH AS INTEGRAL CARD READERS WITH THE ACCESS CONTROL CONTRACTORS FOR SEAMLESS INTEGRATION.

OWNER OR OWNER'S ACCESS CONTROL CONTRACTOR

ACCESS CONTROL CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- **THIS CONTRACTOR SHALL AT BID TIME, COORDINATE ALL COMPONENTS/DEVICES AS SPECIFIED IN 08 7100. LOOK FOR DOOR POSITION SWITCHES, INTEGRAL AND SPECIAL CARD READERS, AND POWER SUPPLY DISCREPANCIES THAT MAY EFFECT COUNTS OR BID. ALL CONCERNS SHALL BE BROUGHT TO ENGINEER FOR CLARIFICATION DURING ADDENDA PHASE.**
- COORDINATE FRAME PREP REQUIREMENTS WITH DOOR FRAME CONTRACTOR. ACCESS CONTROL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF PULLING AND TERMINATION OF ALL LOW VOLTAGE CONNECTIONS TO THE CARD ACCESS SYSTEM FOR OPERATION.
- MOTION DETECTORS SHALL BE INSTALLED WHERE NOTED TO SHUNT ALARMS ON THE ACCESS SYSTEM WHILE ALLOWING EGRESS.
- STANDALONE PROXIMITY READERS SHALL BE INSTALLED AT LOCATIONS IDENTIFIED ON THE FLOOR PLANS.
- ALL HEAD END SERVERS, ENCLOSURES, CONTROLLERS, READERS, INPUT/OUTPUT BOARDS AND LOCAL POWER SUPPLIES REQUIRED TO CREATE A FULLY FUNCTIONAL ACCESS CONTROL SYSTEM.
- ACCESS CONTROL CABLING AND TERMINATIONS FOR ALL ACCESS CONTROL RELATED DOOR HARDWARE COMPONENTS AT BOTH THE HEAD END LOCATION AND AT EACH DOOR LOCATION. DATA CABLE AND POWER OVER ETHERNET SWITCH SHALL BE OWNER PROVIDED.
- SOFTWARE PROGRAMMING FOR EACH INDIVIDUAL OPENING. COORDINATE ALL LOCK/UNLOCK DOOR SCHEDULES AND DOOR LABELING SCHEME WITH OWNER PRIOR TO PROGRAMMING.
- ACCESS CONTROL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR AND AUTOMATIC OPERATOR CONTRACTOR WITH LOCATIONS HAVING BOTH AUTOMATIC DOOR OPERATORS AND ACCESS CONTROL.
- ACCESS CONTROL CONTRACTOR SHALL PROVIDE FREE EGRESS FUNCTIONALITY. UPON PRESSING THE INTERIOR ACTUATOR, THE DOOR SHALL BOTH SIMULTANEOUSLY UNLOCK AND OPEN. PROVIDE ALL WIRING AND RELAY INTERFACES WITH THE DOOR OPERATOR TO CREATE THIS FUNCTIONALITY.
- ACCESS CONTROL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EACH OPENING'S NEED FOR FUNCTIONALITY DURING THE EVENT OF A FIRE. COORDINATE SPECIFIC CABLE DROP AND/OR FIRE ALARM RELAY NEEDS WITH FIRE ALARM CONTRACTOR.
- FINAL PERFORMANCE TESTING OF EACH LOCATION SHALL BE PROVIDED BY THE ACCESS CONTROL CONTRACTOR.
- INTEGRATE WITH ALL AUXILIARY INPUTS AND OUTSIDE SYSTEM INFLUENCES SUCH AS, BUT NOT LIMITED TO, VIDEO SURVEILLANCE, AUXILIARY LOCK DOWN OR DOOR RELEASE BUTTONS, FIRE ALARM, BURGLAR SYSTEMS, ETC.

ADDITIONAL OWNER ITEMS

OWNER SHALL PROVIDE AND INSTALL ALL OF THE FOLLOWING ITEMS AS IT RELATES TO THE ACCESS CONTROL SYSTEM AND DOOR HARDWARE COMPONENTS:

- ALL CATEGORY 6 OR 6A CABLING TO A WORK AREA OUTLET FOR EACH COORDINATED ACCESS CONTROL PANEL LOCATION.
- FINAL PATCH CORD TO EQUIPMENT.
- POWER OVER ETHERNET SWITCHES FOR THE ACCESS CONTROL PANELS AND ELECTRIC STRIKES.
- IP ADDRESS SCHEME FOR ALL IP DEVICES. ACCESS CONTROL CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OWNER FOR THIS INFORMATION.

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