HAZWASTE PROCESSING AREA UPGRADES

UNIVERSITY OF SOUTH CAROLINA / 350 WAYNE STREET, COLUMBIA, SC

BID SET

GOODWYN MILLS & CAWOOD, LLC | ARCHITECTURE

GMK ASSOCIATES, INC | ENGINEERING

ANNOTATION SYMBOLS

ROOM NAME 101 — ROOM REFERENCE SYMBOL

COLUMN LINES: CONSECUTIVE NUMBERS ARE USED FOR COLUMN LINES RUNNING NORTH & SOUTH

CONSECUTIVE LETTERS ARE USED FOR COLUMN LINES RUNNING EAST & WEST

FACE OF MASONRY OR FACE OF GIRDER

677.52 — ELEVATION MARK SYMBOL: 677.52 - ELEVATION (FT)

EXTERIOR ELEVATION SYMBOL: ELEVATION 1 ON SHEET A1.01

INTERIOR ELEVATION SYMBOL: INTERIOR ELEVATION 3 ON SHEET A1.01

FFE: BY OTHERS

REVISION SYMBOL: USED TO INDICATE SCOPE OF CURRENT REVISION

DOOR SYMBOL: DOOR NUMBER 101; DOOR TYPE A (SEE DOOR SCHEDULE AND FLOOR PLANS)

WINDOW SYMBOL: WINDOW TYPE A (SEE EXTERIOR ELEVATIONS AND WINDOW SCHEDULE)

LOUVER SYMBOL: LOUVER TYPE L1 (SEE LOUVER SCHEDULE)

WALL SYMBOL: WALL TYPE 0G (SEE PARTITION LEGEND)

SPECIALTY EQUIPMENT TAG: TA01 — SEE SPECIALTY EQUIPMENT SCHEDULE

PLAN KEYNOTE TAG: A — NOTE NUMBER A SEE PLAN KEYNOTE SCHEDULE

BUILDING SECTION SYMBOL: SECTION 1 ON SHEET A1.01

WALL SECTION SYMBOL: SECTION 1 ON SHEET A1.01

ENLARGED DETAIL SYMBOL: DETAIL 1 ON SHEET A1.01

CASEWORK TAG: CDS# / HEIGHT # / DEPTH # / WIDTH #

NORTH ARROW: ARCHITECTURAL ORIENTATION — PLAN NORTH

CIVIL ORIENTATION — TRUE NORTH

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G2.02	LIFE SAFETY PLAN
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E1.1	ELECTRICAL DEMOLITION PLAN
E3.1	ELECTRICAL POWER PLAN
E5.1	ELECTRICAL RISER DIAGRAM AND DETAILS

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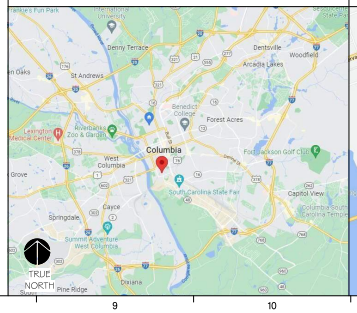
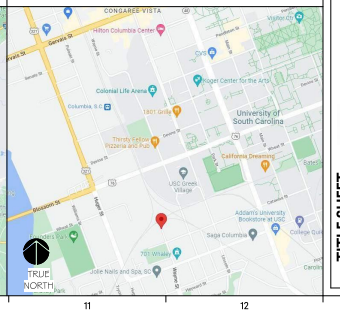
VICINITY MAP



LOCATION MAP



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ISSUE	DATE
CD SET	06/3/2026

DRAWN BY: JL
CHECKED BY: MW

HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GOODWYN, MILLS & CAWOOD, INC — GREENVILLE SC — No. 01030 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA, SC — 9088 — REGISTERED ARCHITECT

TITLE SHEET

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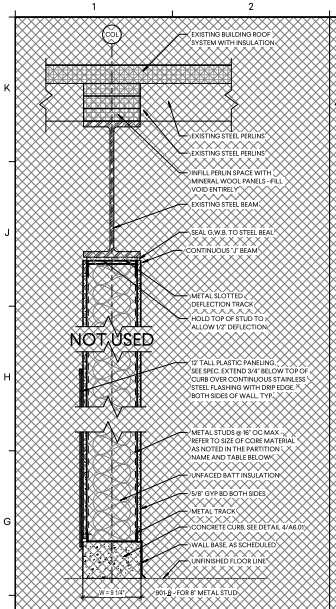
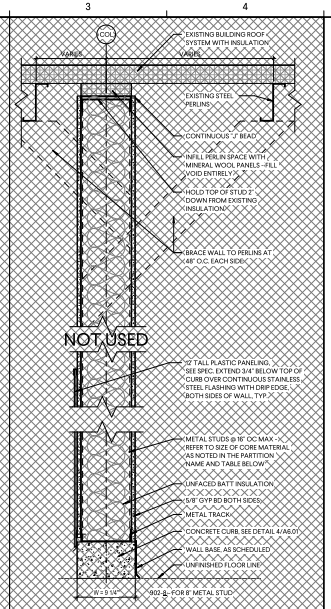
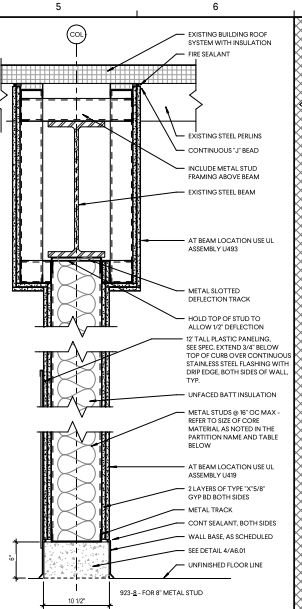
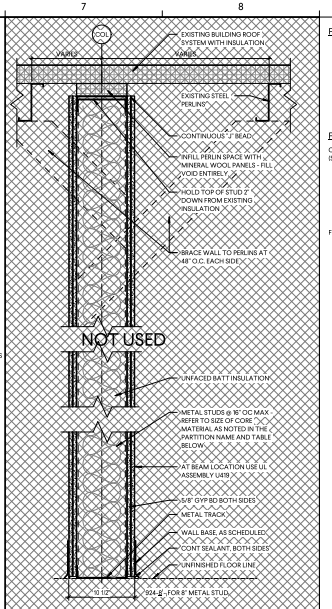






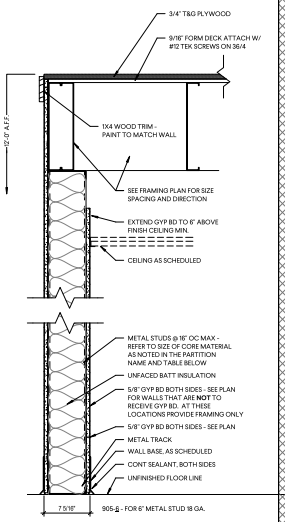


PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
501-2	NOT USED				
501-3	NOT USED				
501-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
501-6	NOT USED				
501-8	NOT USED				

PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
502-2	NOT USED				
502-3	NOT USED				
502-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
502-6	NOT USED				
502-8	NOT USED				

PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
523-2	NOT USED				
523-3	NOT USED				
523-4	NOT USED	2 HOUR	U419 U493	*49	1-1/2" = 1'-0"
523-6	NOT USED				
523-8	8" (8)				

PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
524-2	NOT USED				
524-3	NOT USED				
524-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
524-6	NOT USED				
524-8	NOT USED				



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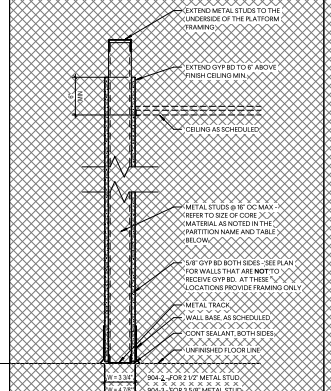

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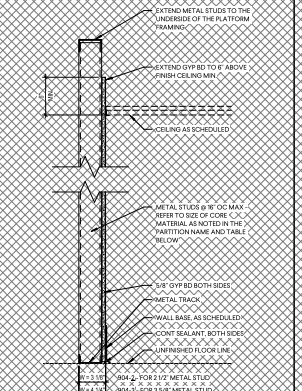

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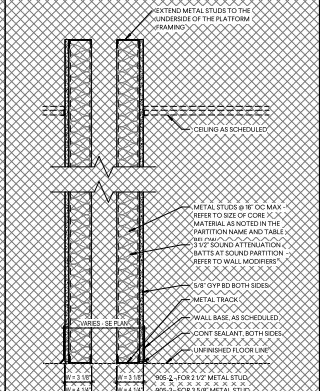


PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
505-2	NOT USED				
505-3	NOT USED				
505-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
505-6	6" (6)				
505-8	NOT USED				

PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
906-2	NOT USED				
906-3	NOT USED				
906-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
906-6	NOT USED				
906-8	NOT USED				

PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
907-2	NOT USED				
907-3	NOT USED				
907-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
907-6	NOT USED				
907-8	NOT USED				

PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
901-2	NOT USED				
901-3	NOT USED				
901-4	NOT USED	N/A	N/A	*49	1-1/2" = 1'-0"
901-6	NOT USED				
901-8	NOT USED				

PARTITION TYPE REFERENCE

CORE / STRUCTURAL MATERIAL (SPECIFICATION SECTION) — NOMINAL SIZE OF CORE MATERIAL

XXX-Xxx

FIRE RATING / SPECIALTY — WALL MODIFIERS — NUMBERING SEQUENCE

PARTITION TYPE CODING / LEGEND

CORE / STRUCTURAL MATERIAL (SPECIFICATION SECTION)

3	CONCRETE
4	MASONRY (CMU)
5	STRUCTURAL METAL STUDS
6	WOOD STUDS
9	METAL STUDS (NON-STRUCTURAL)

FIRE RATING / SPECIALTY

0	NOT RATED
.5	1/2 HOUR RATED
1	1 HOUR RATED
2	2 HOUR RATED
3	3 HOUR RATED
4	4 HOUR RATED
S	SMOKE PARTITION
A	ACOUSTIC / SOUND RATED PARTITION

NUMBERING SEQUENCE

0-9	SEQUENTIAL NUMBERING

CORE MATERIAL SIZE (NOMINAL SIZE)

2	2 1/2" METAL STUD
3	3-5/8" METAL STUD
4	4" METAL STUD / CMU
6	6" METAL STUD / CMU / CONCRETE
8	8" METAL STUD / CMU / CONCRETE
12	12" METAL STUD / CMU / CONCRETE

WALL MODIFIERS

a	ACOUSTIC BATTS
c	CEMENT BOARD
m	MOISTURE RESISTANT G.W.B.
r	RESILIENT CHANNELS
s	SECURITY MESH / MATERIAL
x	LEAD LINING

GENERAL PARTITION TYPE NOTES

A) PARTITION TYPE DETAILS APPLY UNLESS INDICATED OTHERWISE ON WALL SECTIONS, SECTION DETAILS AND PLAN DETAILS.

B) PARTITION WALLS THAT ARE PARALLEL WITH COLUMN LINES SHALL BE CENTERED ON COLUMN LINES UNLESS NOTED OTHERWISE.

C) ANY WALLS SHOWN AS MASONRY ON THE PLANS BUT NOT TAGGED AS PARTITION OR DETAILED ELSEWHERE IN THE DRAWINGS SHALL BE ASSUMED TO BE PARTITION TYPE 401-8. CONFIRM WITH ARCHITECT PRIOR TO CONSTRUCTION.

D) PROVIDE DRAFT STOP AT TOP OF ALL WALL ASSEMBLIES THAT DO NOT CONTINUE TIGHT TO STRUCTURE - INCLUDING PLUMBING CAVITY.

E) CONTROL JOINTS:
1. CONTROL JOINTS IN CMU (CJ) SHALL BE AS SHOWN OR 40'-0" O.C. MAX. IF NOT SHOWN.
2. GYPSUM BOARD / METAL STUDS (CJ) SHALL BE AS SHOWN OR 25'-0" O.C. MAX. IF NOT SHOWN.

F) GENERAL CONTRACTOR OR BUILDING / FINISH CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL OPENINGS AND HOLES (INCLUDING THOSE REQUIRED FOR DUCTWORK AND LARGE SYSTEM PIPING, CONDUIT AND CABLE TRAY) IN WALLS INCLUDING SECTIONS, SIZE, LOCATION, AND DETAIL INFORMATION AS PART OF COORDINATION DRAWINGS.

G) LARGE HOLES FOR DUCTWORK, LARGE GROUPS OF PIPING OR CONDUIT, AND CABLE TRAY SHALL BE FORMED AS MASONRY WALLS ARE CONSTRUCTED AND SHALL INCLUDE LINTEL OVERHEAD AND REINFORCING ON ALL SIDES AS SHOWN ON THE STRUCTURAL DRAWINGS. HOLES FOR DUCTWORK MAY NOT BE CUT AFTER WALLS ARE CONSTRUCTED. LARGE GROUPS OF PIPING OR CONDUIT SHALL BE INCLUDED ON COORDINATION DRAWINGS AND LOCATIONS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

H) ALL PIPE AND CONDUIT PENETRATIONS THRU CMU WALLS SHALL BE SEALED. HOLES SHALL BE NO GREATER THAN 1" OVER THE PIPE OR CONDUIT SIZE WHERE PENETRATIONS ARE EXPOSED TO VIEW. ESCUTCHEON PLATE SHALL BE PROVIDED BY SUB-CONTRACTOR OR MULTI-PRIME CONTRACTOR. PLATE SHALL BE PAINTABLE AND PAINTED TO MATCH ADJACENT WALL.

I) SEE "T" SERIES FOR REQUIRED UL ASSEMBLIES OF ALL BUILDING SYSTEMS. ALL PENETRATIONS THROUGH RATED WALL AND FLOOR ASSEMBLIES MUST COMPLY WITH UL DESIGNS FOR PENETRATIONS.

J) ALL FIRE RATED WALLS TO RECEIVE STENCILED TEXT ON CONTINUOUS PAINTED BAND ABOVE CEILING AS FOLLOWS: 2" HIGH STENCILED TEXT READING "X-HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS" TO BE PAINTED (RED) ON ALL FIRE RATED WALL ASSEMBLIES (ABOVE CEILINGS WHERE SUSPENDED CEILING OCCURS). TEXT IS TO BE PAINTED ON BOTH SIDES OF EACH FIRE WALL, 40'-0" O.C. WITH 1" WIDE LINE PAINTED (RED) BETWEEN TEXT.

K) SEE FLOOR PLANS FOR LOCATION AND RATING ON ALL FIRE RATED WALLS.

L) UTILIZE TYPE "X" GYPSUM BOARD AT ALL RATED WALLS TO COMPLY WITH UL TEST STANDARDS.

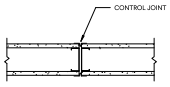
M) AT ALL JOINTS AT THE TOP OF ALL FIRE RATED WALLS AND PARTITIONS AND AT CONTROL JOINTS, PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE RATING OF THE WALL ASSEMBLY AND THAT ARE COMPATIBLE WITH JOINT SUBSTRATES. SUBMIT COMPLETE JOINT SYSTEM PRODUCT INFORMATION FOR ALL CONDITIONS FOR THE ARCHITECTS REVIEW.

N) AT ALL PENETRATIONS AT RATED WALLS AND FLOOR / CEILING ASSEMBLIES, PROVIDE UL LISTED FIRE RESISTIVE SEALANT / FIRE STOP SYSTEM TO MATH THE FIRE RESISTANCE OF WALL PARTITION / CEILING ASSEMBLY. SYSTEM SHALL BE COMPATIBLE WITH ADJACENT SUBSTRATES. SUBMIT PENETRATION ASSEMBLY INFORMATION AND PRODUCT INFORMATION FOR ALL CONDITIONS FOR THE ARCHITECTS REVIEW.

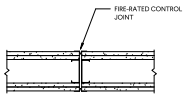
O) AT ALL WALLS NOTED TO EXTEND TO DECK, ALL PENETRATIONS SHALL BE SEALED (INCLUDING CONDUIT, PIPING, DUCTWORK, ETC.) WHERE JOISTS PENETRATE WALLS EXTENDING TO DECK, GYPSUM BOARD SHALL BE INFILLED AROUND JOISTS AND GAPS FILLED WITH INSULATION.

P) SEE INTERIOR ELEVATIONS AND DETAILS FOR REVEALS IN WALLS AND MAINTAIN ALL WALL RATINGS. ADD ADDITIONAL LAYER OF GYPSUM BOARD TO MAINTAIN RATING.

Q) **ALL GYPSUM BOARD TO BE MOISTURE RESISTANT G.W.B.**



AT NON-RATED PARTITIONS

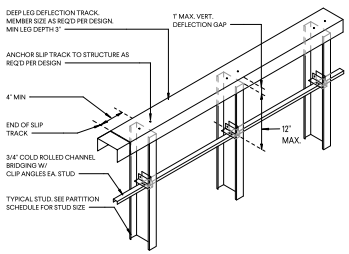


JOINT MUST COMPLY WITH UL WW-D-0172

AT FIRE-RATED PARTITIONS

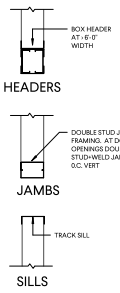
NOTES:
1. PROVIDE VERTICAL CONTROL JOINTS AT 20'-0" MAX.

1 CONTROL JOINT DETAILS
SCALE: 11/2" = 1'-0"



NOTES:
1. COMPLY WITH SPECIFICATION SECTION 092216 - NON-STRUCTURAL METAL FRAMING.
2. PROVIDE 3/4" CR CHANNEL BRIDGING AT 12" MAX. FROM TOP OF WALL.
3. PROVIDE ADDITIONAL 3/4" CR CHANNEL BRIDGING AT 48" OC VERT AT FULL HEIGHT ONE-SIDED PARTITIONS (GYP BOARD ONE SIDE ONLY), OR AS REQ'D PER DESIGN.

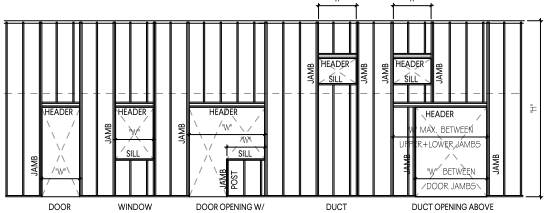
2 SLIP TRACK DETAIL
SCALE: 11/2" = 1'-0"



NOTES:
1. DESIGN IS BASED ON A DIFFERENTIAL INTERNAL PRESSURE OF 5 POUNDS PER SQUARE FOOT, AND AN ALLOWABLE DEFLECTION OF L/240.
2. THE STEEL STUD GAUGE IS BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) PROPERTIES AND PROCEDURES FOR ENGINEERING INTERIOR NON-STRUCTURAL NON-COMPOSITE FRAMING.
3. WHEN TYPICAL STUD SPANS EXCEED THOSE SHOWN, WHEN LOADING CONDITIONS ARE OTHER THAN STATED, OR FOR OPENING WIDTHS OR HEIGHTS EXCEEDING THOSE SHOWN, CONSULT STRUCTURAL ENGINEER.

STEEL STUD GAUGE FOR 3-5/8" & 6" HEADER, JAMB, AND SILL STUDS AND TRACKS

WIDTH "W"	HEIGHT "H"							
	‹ 8'	8' - 9'	9' - 10'	10' - 11'	11' - 12'	12' - 13'	13' - 14'	14' - 15'
‹ 4'	20	20	20	20	20	18	16	14
4' - 6'	20	20	20	20	18	16	14	
6' - 8'	20	20	20	18	16	14		
8' - 10'	20	20	18	16	14			
10' - 12'	18	18	16	14				



3 STUD FRAMING DETAILS
SCALE: 11/2" = 1'-0"

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ISSUE	DATE
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DRAWN BY: MWW
CHECKED BY: MWW

HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODWYN, MILLS & CAWOOD, INC — GREENVILLE, SC — No. 01039 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA, SC — 9089 — REGISTERED ARCHITECT

PARTITION TYPES

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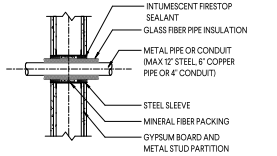
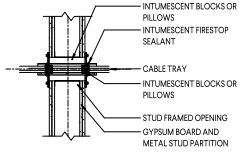


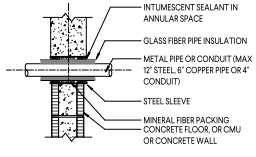
INSULATED METAL PIPE THRU GYP SUM PARTITION

A	W-L-5029 W-
B	L-5040
C	W-L-5014



CABLE TRAY THRU GY PSUM PARTITION

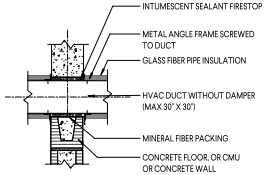
A	W-L-4011 W-
B	L-4037
C	W-L-4008



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

INSULATED METAL PIPE THRU CMU / CONC WALL OR FLOOR

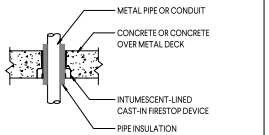
A	C-AJ-5096
B	C-AJ-5024
C	C-AJ-5087



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

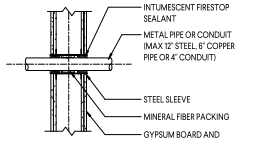
INSULATED HVAC DUCT THRU CMU / CONC WALL OR FLOOR

A	C-AJ-7145
B	C-AJ-7115
C	C-AJ-7143



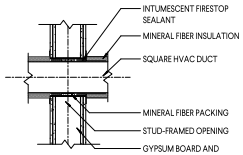
INSULATED METAL PIPE THRU CONC, OR C ONC ON METAL DECK

A	F-A-5015
B	F-A-5029
C	F-A-5041



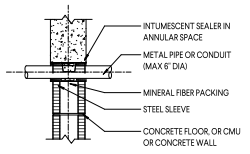
SINGLE UNINSULATED METAL PIPE THRU GYPSUM BOARD PARTITION

A	W-L-1054 W-
B	L-3011
C	W-L-1088



INSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION

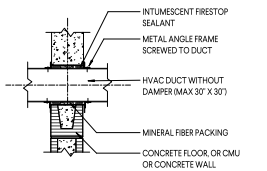
A	W-L-7059 W-
B	L-7195
C	W-L-7178



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

SINGLE UNINSULATED METAL PIPE THRU CONC FLOOR / WALL OR CMU WALL

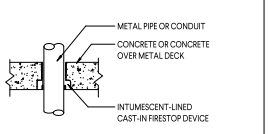
A	C-AJ-1226 C-
B	AJ-1044
C	C-AJ-1080



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

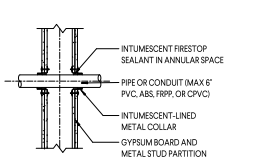
UNINSULATED HVAC DUCT THRU CONC FLOOR / WALL OR CMU WALL

A	C-AJ-1711
B	C-AJ-7016
C	C-AJ-7027



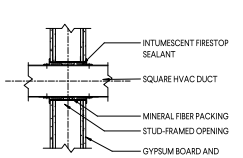
SINGLE UNINSULATED METAL PIPE THRU CONC OVER METAL FLOOR

A	F-A-1017
B	F-A-1067
C	F-A-1110



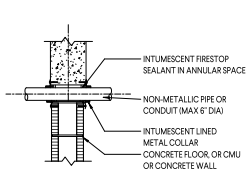
SINGLE NONMETALLIC PIPE THRU GYPSUM BOARD PARTITION

A	W-L-2078 W-
B	L-2073
C	W-L-2029



UNINSULATED HVAC DUCT THRU GYPSUM BOARD PARTITION

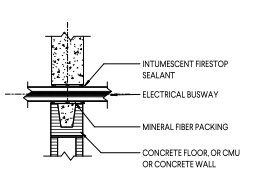
A	W-L-7155 W-
B	J-7169
C	W-L-7056



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

SINGLE NONMETALLIC PIPE THRU CONC FLOOR / WALL OR CMU WALL

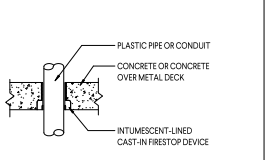
A	C-AJ-2109 C-
B	AJ-2005
C	C-AJ-2038



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

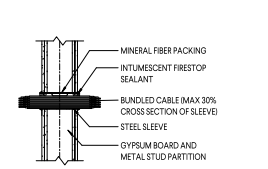
BUSWAY THRU CONC FLOOR / WALL OR C MU WALL

A	C-AJ-8017 C-
B	AJ-8002
C	C-AJ-8008



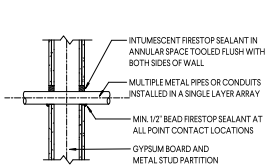
SINGLE NONMETALLIC PIPE THRU CONC RETE OVER METAL FLOOR

A	F-A-2054
B	F-A-2097
C	F-A-2192



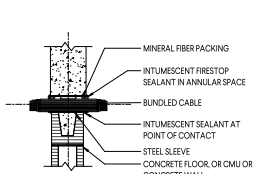
SINGLE OR BUNDLED CABLE THRU GYPSUM BOARD PARTITION

A	W-L-3065 W-
B	L-3031
C	W-L-3133



MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION

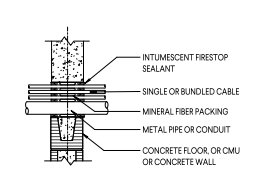
A	W-L-1389 W-
B	L-13--
C	W-L-1168



NOTE: FIRESTOP BOTH SIDES AT WALLS; FIRESTOP TOP SIDE AT FLOORS

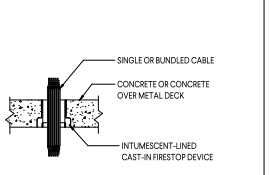
BUNDLED CABLE THRU CONC FLOOR / WALL OR CMU WALL

A	C-AJ-3095
B	C-AJ-3021
C	C-AJ-3043



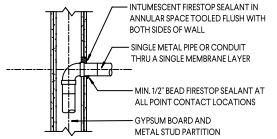
MULTIPLE PENETRATIONS THRU CONC FLOOR / WALL OR CMU WALL

A	C-AJ-8143 C-
B	AJ-8003
C	C-AJ-8053



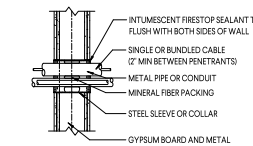
SINGLE OR BUNDLED CABLE THRU CONC OVER METAL FLOOR

A	F-A-3007 F-
B	A-3017
C	F-A-3055



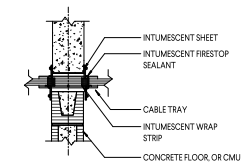
MEMBRANE PENETRATIONS THRU GYPSUM BOARD PARTITION

A	W-L-1410
B	W-L-1353
C	--------



MULTIPLE PENETRATIONS THRU GYPSUM BOARD PARTITION

A	W-L-8079
B	W-L-8010
C	W-L-8026



CABLE TRAY THRU CONC FLOOR / WALL OR CMU WALL

A	C-AJ-4035
B	C-AJ-4003
C	C-AJ-4022

NOT USED

A	--------
B	--------
C	--------

NOT USED

A	--------
B	--------
C	--------

GENERAL THRU-PENETRATION NOTES

1. GENERAL

A. ALL THROUGH-PENETRATION FIRESTOP WORK SHALL COMPLY WITH THE REQUIREMENTS OF **SECTION 078413 – PENETRATION FIRESTOP SYSTEMS**.

B. THE DETAILS SHOWN HEREIN ILLUSTRATE FREQUENTLY ENCOUNTERED THROUGH-PENETRATION FIRESTOP CONDITIONS. THEY ARE GENERIC REPRESENTATIONS OF SYSTEMS AVAILABLE FROM SEVERAL MANUFACTURERS.

C. SELECTION OF APPROPRIATE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE FIRESTOP CONTRACTOR, AND MUST BE SUBMITTED FOR ARCHITECT'S APPROVAL. EACH SELECTION SHALL BE APPROPRIATE FOR THE PENETRATING ITEM AND SUBSTRATE, AND SHALL COMPLY WITH THE SPECIFIC REQUIREMENTS OF A UL LISTED SYSTEM DESIGN.

D. WHERE NO APPLICABLE UL DESIGN IS AVAILABLE FOR A PARTICULAR FIRESTOP CONFIGURATION, SUBMIT AN ENGINEERING JUDGMENT (E.J). OR EQUIVALENT FIRE RESISTANCE RATED ASSEMBLY (EFRA), PREPARED BY THE FIRESTOP MANUFACTURER.

2. APPLICABILITY

A. PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR ALL PENETRATIONS (INCLUDING SINGLE-SIDED MEMBRANE PENETRATIONS) OF FIRE RESISTANCE RATED CONSTRUCTION, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS (APPLICABLE TO BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS).

B. ALL PIPING AND DUCTWORK SUBJECT TO MOVEMENT SHALL BE FIRESTOPPED WITH FLEXIBLE FIRE RATED SEALANT.

C. TO EXTENT THAT APPROPRIATE UL DESIGNS ARE AVAILABLE FOR SUBSTRATE REQUIRED, USE THE FOLLOWING APPROACH TO SELECTION OF SYSTEMS:

1. FOR SIMPLE PENETRATIONS: ONE-PART FIRESTOP SEALANT
2. FOR COMPLEX PENETRATIONS: FOAMED-IN-PLACE FIRESTOP SEALANT
3. FOR INSULATED METAL PIPE: INTUMESCENT WRAP STRIP AND ONE-PART FIRESTOP SEALANT.
4. FOR DUCTS OR VENTS:
5. FOR CABLE TRAYS OR RACEWAYS:

3. SLEEVING

A. THE FOLLOWING PENETRATIONS MUST BE SLEEVED;

1. SINGLE ROUND PENETRATIONS IN RATED CMU WALLS
2. INSULATED PIPE PENETRATIONS IN RATED GYPSUM BOARD WALLS
3. BUNDLED CABLE PENETRATIONS IN RATED GYPSUM BOARD WALLS
4. ALL PENETRATIONS IN ELEVATED CONCRETE SLABS.

B. ALL SLEEVES SHALL BE METAL. PLASTIC IS NOT PERMITTED. THE JUNCTURE OF STEEL SLEEVES AND WALL SHALL BE SEALED WITH FLEXIBLE FIRE RATED SEALANT.

4. QUALITY ASSURANCE

A. COMPLY WITH "INSTALLER QUALIFICATIONS" AND "ON-SITE RESPONSIBLE PARTY" PROVISIONS OF SPECIFICATION SECTION 078413 – THROUGH-PENETRATION FIRESTOP SYSTEMS.

B. OBTAIN THROUGH-PENETRATION FIRESTOP SYSTEMS THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.

C. COMMENCE FIRESTOPPING WORK ONLY AFTER SUBMITTALS (INCLUDING MOCKUPS WHERE APPLICABLE) ARE APPROVED, AND PRE-INSTALLATION CONFERENCE IS SUCCESSFULLY CONCLUDED.

5. INSTALLATION - GENERAL

A. COMPLY WITH UL SYSTEM REQUIREMENTS AND FIRESTOPPING MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS.

B. INSTALL FORMING /DAMMING /BACKING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.

C. INSTALL FILL MATERIALS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:

1. FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED.
2. APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES FORMED BY OPENINGS AND PENETRATING ITEMS.

D. FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.

E. REMOVE COMBUSTIBLE FORMING MATERIALS, AND OTHER ACCESSORIES, THAT ARE NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS. REMOVE EXCESS SEALANT FROM ADJOINING SURFACES.

F. IDENTIFY THROUGH PENETRATION FIRESTOP SYSTEMS WITH PERMANENTLY ATTACHED,PREPRINTED METAL OR PLASTIC LABELS, AS SPECIFIED.

G. INSPECT FILL MATERIALS AFTER 48 HOURS FOR COMPLETE ADHESION AND SEAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CORRECT DEFICIENCIES AND RE-INSPECT.

PRODUCT / MANUFACTURER LEGEND

1. THE ILLUSTRATIONS ON THIS DRAWING REPRESENT FREQUENTLY ENCOUNTERED FIRESTOPPING PENETRATION CONDITIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES.

2. THE NUMBERS SHOWN BELOW ARE MANUFACTURERS' UL-TEST NUMBERS FOR EACH CONDITION.

3. THE KEY TO MANUFACTURERS (A, B, OR C) IS AS INDICATED BELOW.

KEY TO MANUFACTURERS		
	A	HILTI
	B	3M
	C	STI

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODDWYN, MILLS & CAWOOD, INC (GREENVILLE SC) No. 01039 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN, COLUMBIA SC 9088 — REGISTERED ARCHITECT

PENETRATION FIRESTOPPING SYSTEMS

G1.02

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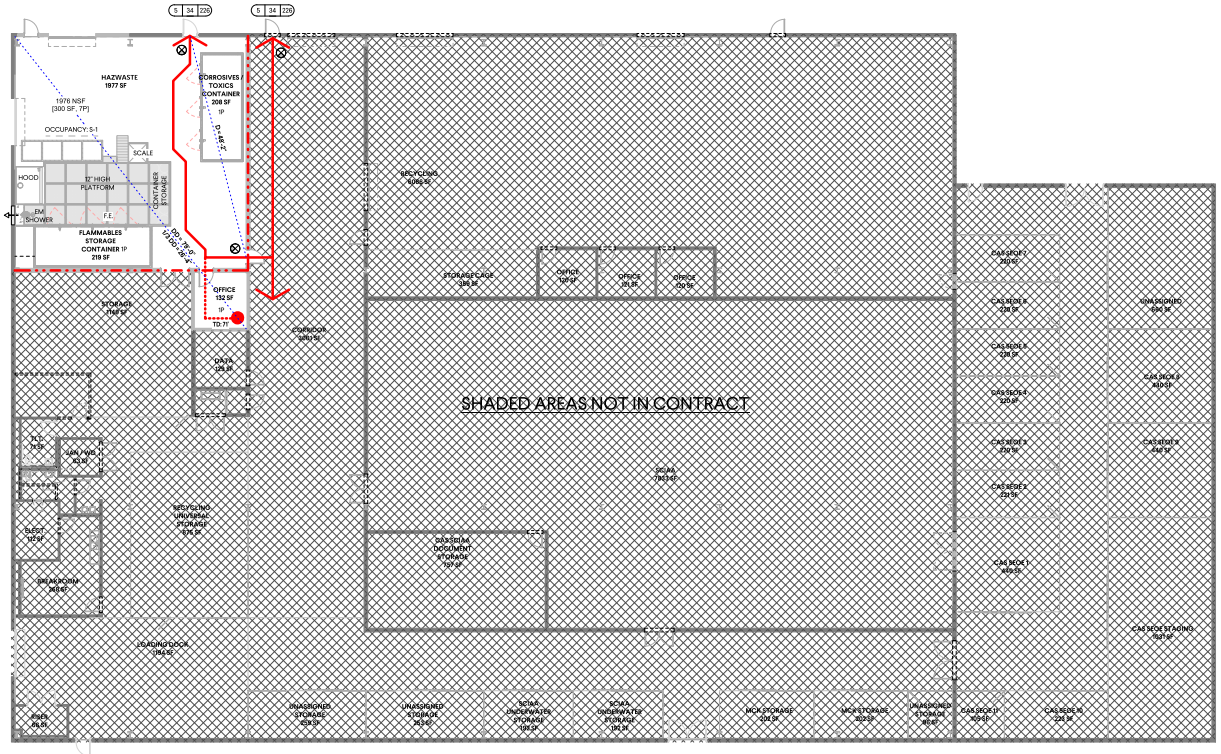

1 LIFE SAFETY PLANS - LEVEL 1

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. AREA SHOWN IS GROSS SQUARE FOOTAGE, BUT DOES NOT INCLUDE OVERHANGS.
2. RENOVATION ASSOCIATED WITH THIS PROJECT IS LESS THAN 1/2 OF THE TOTAL BUILDING AREA.
3. SESMIC SITE CLASS = "D"
   SESMIC DESIGN CATEGORY = "C"

OCCUPANCY CLASSIFICATION

OCCUPANCY	I.B.C.
	(S-1 STORAGE - 36,650 S.F. TOTAL BUILDING AREA

CONSTRUCTION CLASSIFICATION

CONSTRUCTION TYPE	INTERIOR RENOVATION OF EXISTING BUILDING
	TYPE II-B : 104,000 S.F. ALLOWED

MEANS OF EGRESS

MAXIMUM ALLOWABLE		I.B.C.
TRAVEL DISTANCE TO AN EXIT	SPRINKLERED	200 ft
	NON-SPRINKLERED	NP
COMMON PATH OF TRAVEL	SPRINKLERED	100 ft
	NON-SPRINKLERED	75 FT
DEAD END LENGTH		20 ft

EGRESS CAPACITY TABULATION

LEVEL / FLOOR	OCCUPANCY	AREA GROSS SF	AREA NET SF	OCCUPANT LOAD	EGRESS WIDTH REQ'D	EGRESS WIDTH PROVIDED
1- RENOVATION AREA ONLY	S-1 - STORAGE	2,408 SF	2,408 SF	10 OCC. AT 1/300 SF	1.5"	68"

PLAN LEGEND

- FE — FIRE EXTINGUISHER - BRACKET MOUNTED
- FHC — FIRE HOSE CONNECTION
- FEC — FIRE EXTINGUISHER CABINET
- MS — FIRE ALARM MANUAL PULL STATION
- FS — FIRE ALARM STROBE
- FHS — FIRE ALARM HORN/STROBE
- FHS — FIRE ALARM HORN/STROBE-CEILING MT
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FAP — FIRE ALARM PANEL /SUBPANEL
- ILLUMINATED EXIT SIGN
- 68" (Centre Opening) — CLEAR EXIT WIDTH
- EXIT DISCHARGE
- DISTANCE OF TRAVEL
- 0 - HR SMOKE-RESISTIVE PARTITION
- 2 - HR FIRE BARRIER

NOTE: ALL ELECTRICAL COMPNENTS ARE NOT INCLUDED IN THIS CONSTRUCTION PACKAGE AND SHALL BE PROVIDED UNDER SEPARATE CONTRACT

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODWYN, MILLS & CAWOOD, INC — GREENVILLE SC — No. 01039 — REGISTERED ARCHITECT FIRM

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LIFE SAFETY PLAN

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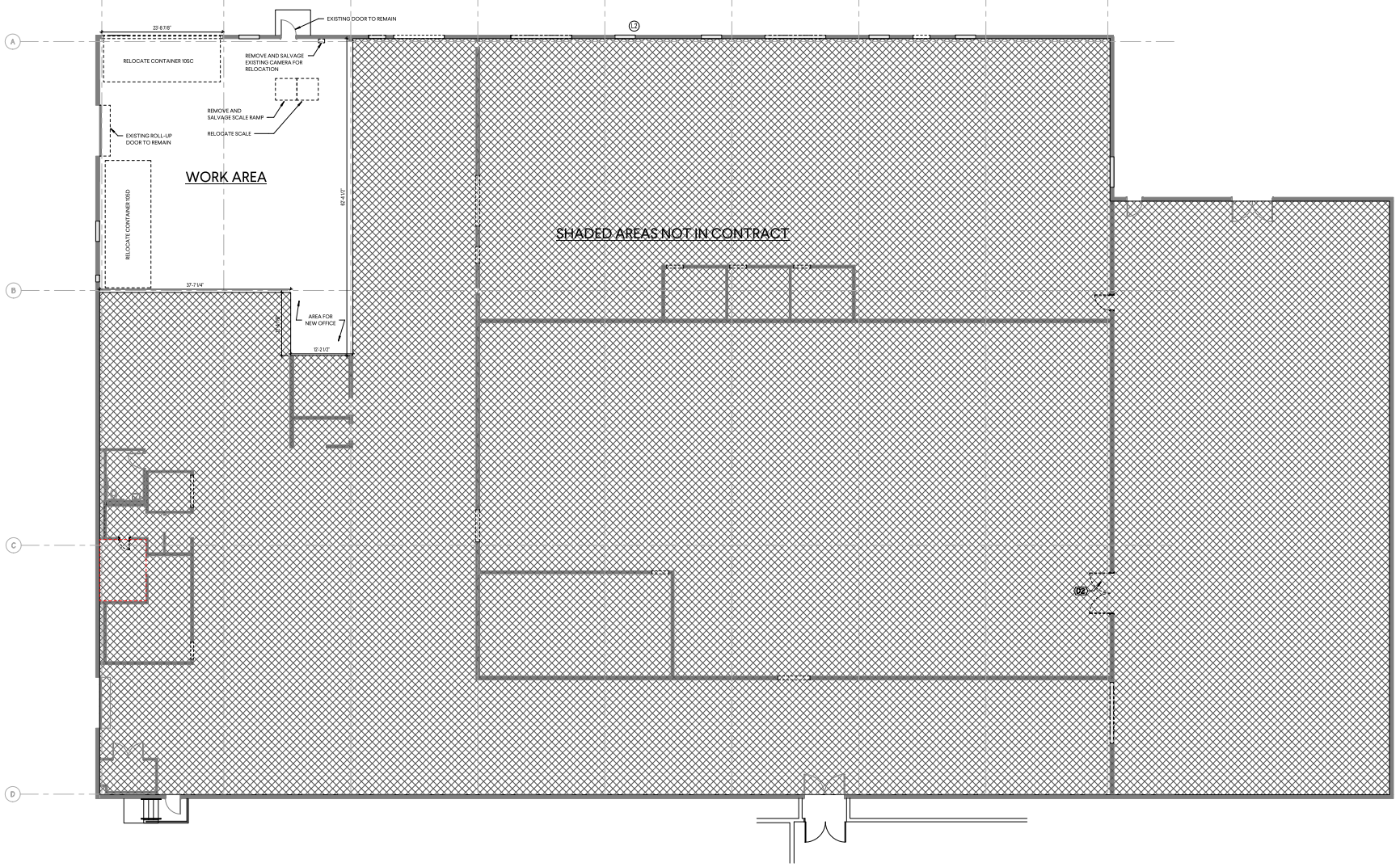

TRUE NORTH

1 1ST LEVEL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODWYN, MILLS & CAWOOD, INC — GREENVILLE, SC — No. 01038 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA, SC — 9088 — REGISTERED ARCHITECT

DEMOLITION PLAN

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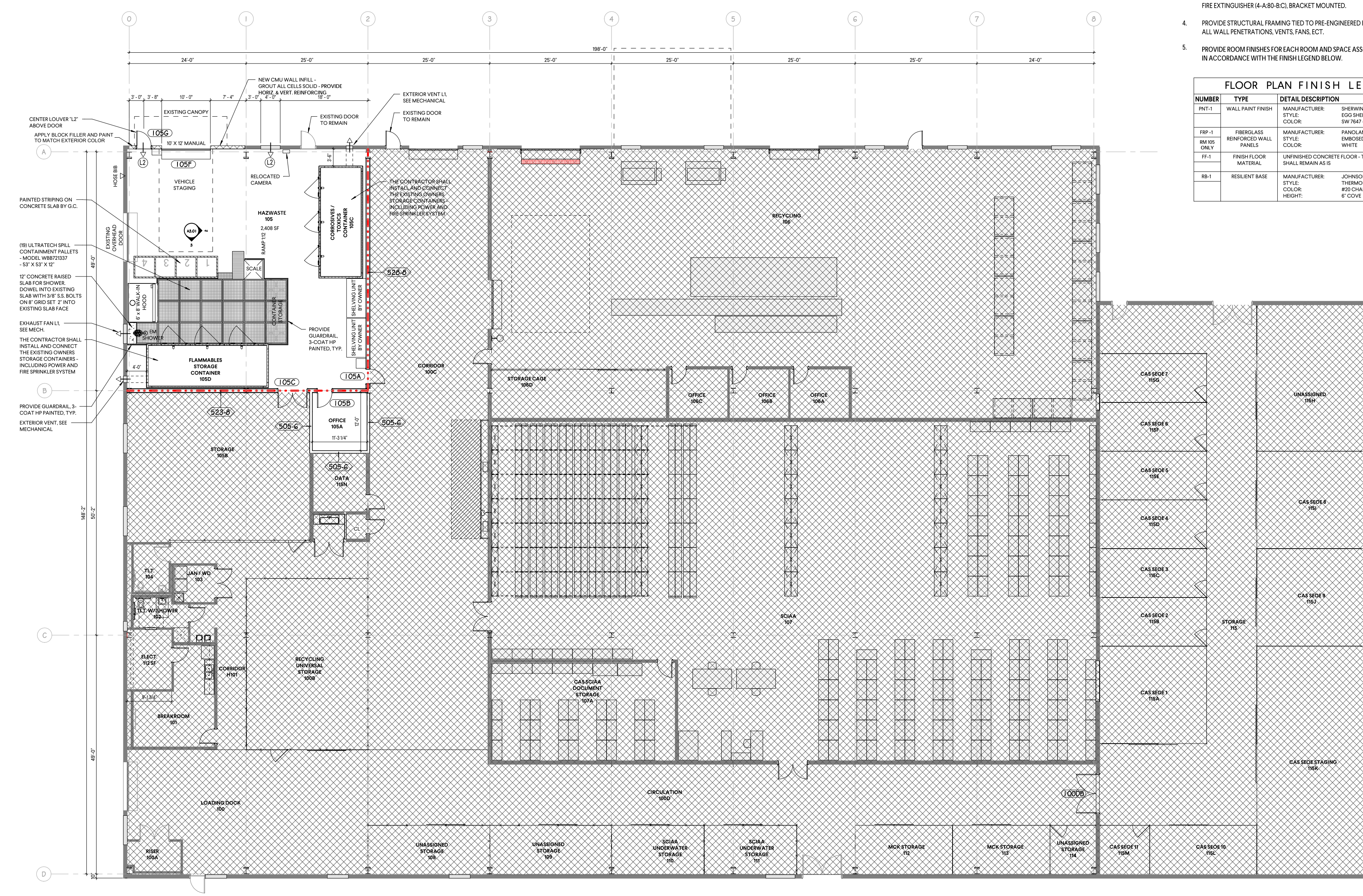

1 1ST LEVEL FLOOR PLAN - Phase 4

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

GENERAL NOTES

- WORK AREA NOT IN CONTRACT
- DENOTES 2-HOUR RATED FIRE BARRIER

1. THE EXHAUST HOOD AND VENTALATION SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. ALL OTHER EQUIPMENT AND FURNISHINGS ARE SHOWN FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE CONTRACT.
2. AIR INTAKE AND EXHAUST GRILLES SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THIS CONTRACT.
3. AT EACH "F.E." LOCATION, PROVIDE 110-POUND MULTI-PURPOSE DRY CHEMICAL TYPE FIRE EXTINGUISHER (4-A:80-B:C), BRACKET MOUNTED.
4. PROVIDE STRUCTURAL FRAMING TIED TO PRE-ENGINEERED BUILDING FRAMING FOR ALL WALL PENETRATIONS, VENTS, FANS, ECT.
5. PROVIDE ROOM FINISHES FOR EACH ROOM AND SPACE ASSOCIATED WITH THIS PROJECT IN ACCORDANCE WITH THE FINISH LEGEND BELOW.

FLOOR PLAN FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION	
PNT-1	WALL PAINT FINISH	MANUFACTURER: STYLE: COLOR:	SHERWIN WILLIAMS EGG SHELL SW 7647 - CRUSHED ICE
FRP-1 RM 105 ONLY	FIBERGLASS REINFORCED WALL PANELS	MANUFACTURER: STYLE: COLOR:	PANOLAM EMBOSED SURFACE WHITE
FF-1	FINISH FLOOR MATERIAL	UNFINISHED CONCRETE FLOOR - THE EXISTING FINISH FLOOR SHALL REMAIN AS IS	
RB-1	RESILIENT BASE	MANUFACTURER: STYLE: COLOR: HEIGHT:	JOHNSONITE THERMOPLASTIC OR RUBBER #20 CHARCOAL 6" COVE

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
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STATE OF SOUTH CAROLINA — GOODWYN, MILLS & CAWOOD, INC — GREENVILLE, SC — No. 01039 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA, SC — 6088 — REGISTERED ARCHITECT

1ST LEVEL FLOOR PLAN - PHASE 4

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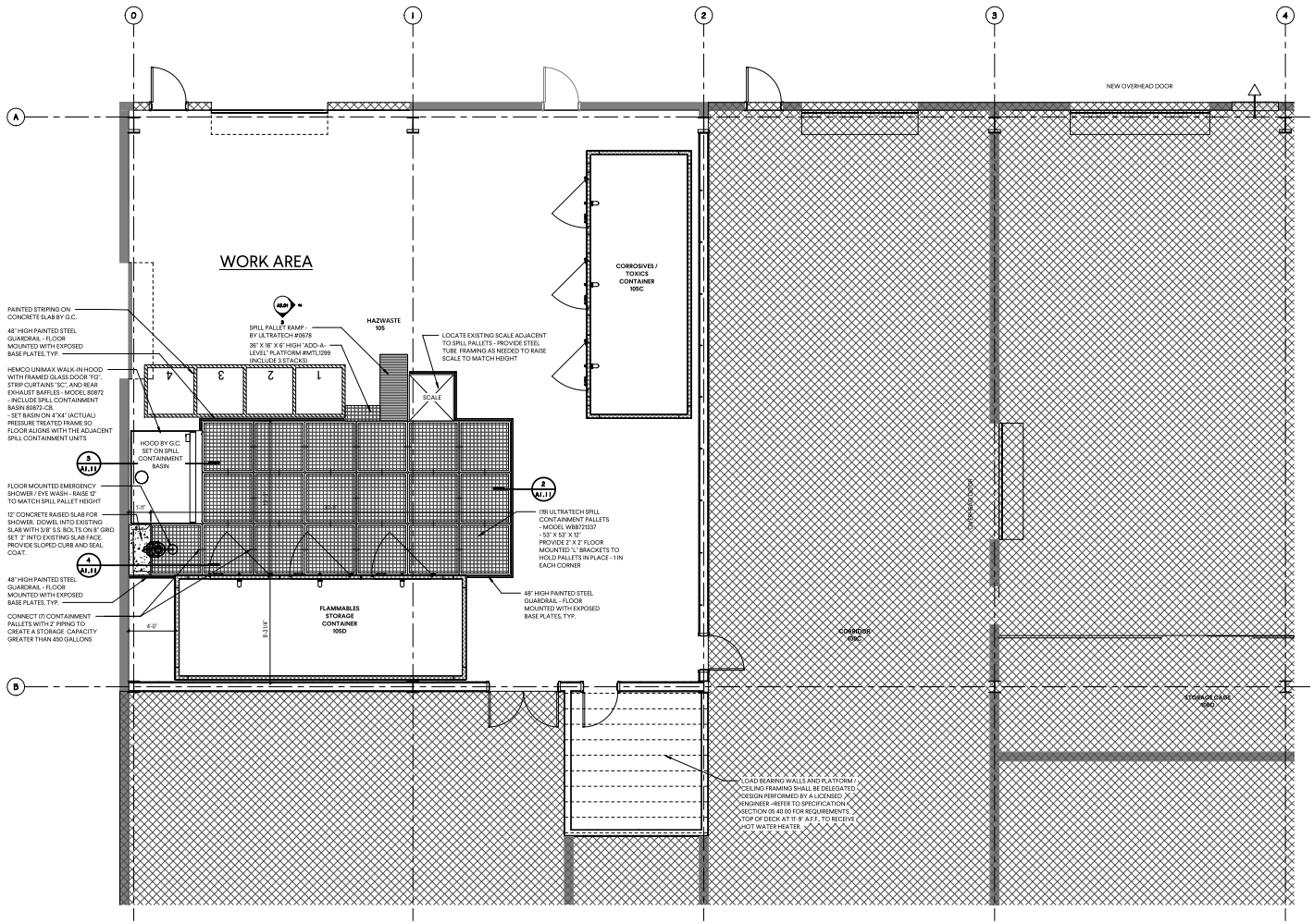
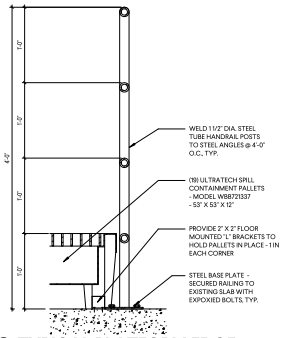
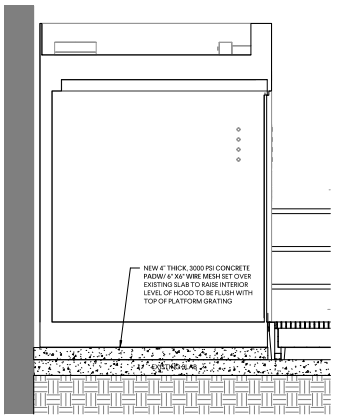


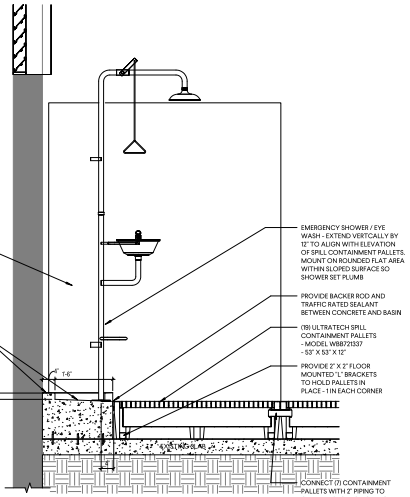
1 PLATFORM FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 TYPICAL PLATFORM EDGE
SCALE: 1 1/2" = 1'-0"



3 HOOD DETAIL
SCALE: 3/4" = 1'-0"



4 SAFETY SHOWER DETAIL
SCALE: 3/4" = 1'-0"

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODWYN, MILLS & CAWOOD, INC — GREENVILLE, SC — No. 01030 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA, SC — 9089 — REGISTERED ARCHITECT

PLATFORM PLAN

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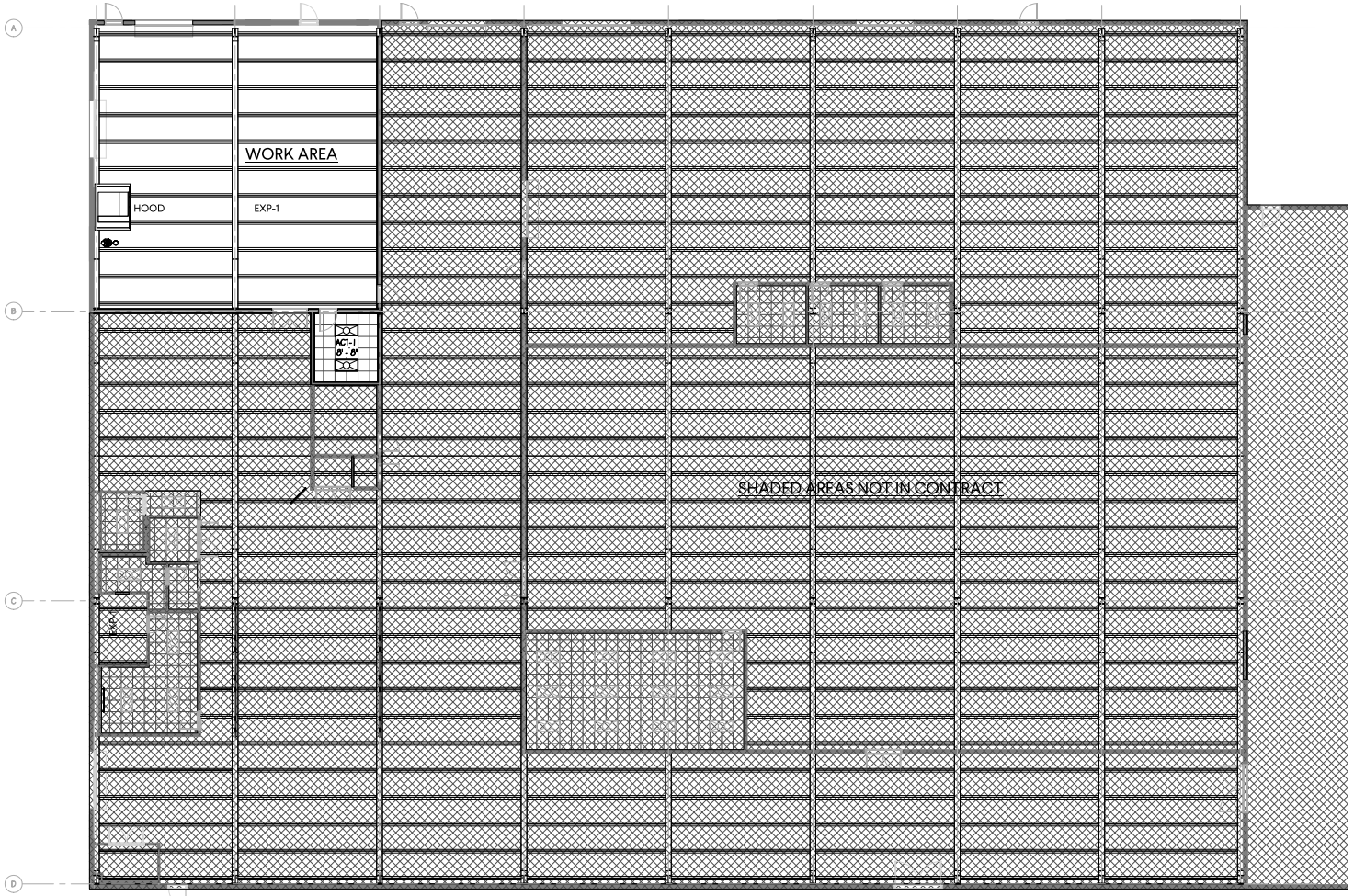

1 OVERALL RCP - LEVEL 1
SCALE: 1/8" = 1'-0"

TRUE NORTH

REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:

- LAY-IN ACOUSTICAL CEILING SYSTEM - 2'X2'
- LAY-IN ACOUSTICAL CEILING SYSTEM - 2'X4'
- GYP BOARD - INTERIOR EIFS SOFFIT - EXTERIOR
- EXPOSED STRUCTURE
- 2X2 LAY-IN METAL CEILING SYSTEM
- 2X2 LAY-IN WOOD CEILING SYSTEM
- RECESSED LIGHT POCKET

MECHANICAL:

- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST FAN

LIGHTING:

- 2X2 LAY-IN FIXTURE
- 2X4 LAY-IN FIXTURE
- LINEAR SUSPENDED FIXTURE
- LINEAR RECESSED FIXTURE
- LINEAR WALL MT. FIXTURE
- CIRCULAR SURF. MT. FIXTURE
- CIRCULAR PENDANT FIXTURE
- CIRCULAR RECESSED FIXTURE
- CIRCULAR WALL MT.FIXTURE
- EXIT LIGHT
- NC NURSE CALL LIGHT

REFLECTED CEILING PLAN NOTES

1. CEILING HEIGHTS SHALL BE AS NOTED ON REFLECTED CEILING PLANS.
2. WHEREVER POSSIBLE NO CEILING TILE SHOULD BE LESS THAN 6" IN ANY DIRECTION.
3. SEE ELECTRICAL FOR ALL LIGHT FIXTURE TYPES AND SIZES.
4. SEE MECHANICAL FOR ALL DIFFUSER TYPES AND SIZES.
5. SEE INTERIOR ELEVATIONS FOR WALL MOUNTED LIGHT FIXTURE HEIGHT AND LOCATIONS.
6. COORDINATE LOCATIONS OF ALL LIGHTS, DIFFUSERS, AND DEVICES BETWEEN THIS RCP AND MECHANICAL, FIRE PROTECTION, AND ELECTRICAL. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING.
7. WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER FIXTURE OVER DOOR BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.
8. ALL SPRINKLER HEADS IN ACOUSTIC CEILINGS SHALL BE CENTERED IN CEILING TILE.
9. ALL BULKHEADS TO BE 4" BELOW ADJACENT ACT CEILING UNLESS NOTED OTHERWISE.

CEILING FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE SYSTEM BY OTHERS	MANUFACTURER: ARMSTRONG STYLE: FINE FISSURED, MODEL 928 COLOR: WHITE SIZE: 24" X 24" X 5/8 SUSPENSION SYSTEM: 15/16" GRID SYSTEM
ACT-2	ACOUSTICAL CEILING TILE SYSTEM	MANUFACTURER: STYLE: COLOR: SIZE: 24" X 24" X 5/8" SUSPENSION SYSTEM: 15/16"
GYP-1	GYP BOARD CEILING	PAINTED GYP BOARD CEILING COLOR: CEILING WHITE (LRV 85%)
GYP-2	GYP BOARD CEILING	TYPE X GYP BOARD CEILING - 1 HOUR RATED COLOR: CEILING WHITE (LRV 85%)
MGB-1	MOISTURE RESISTANT GYP BOARD CEILING	PAINTED GYP BOARD CEILING - MOISTURE RESISTANT COLOR: PAINT (LRV 85%)
EXP-1	EXPOSED TO STRUCTURE	EXPOSED TO STRUCTURE - WITH NO FINISH
SHD-2	SUSPENDED TO STRUCTURE	MANUFACTURER: ARMSTRONG PAINT: ALL EXPOSED HUMIDITY RESISTANT

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODWYN, MILLS & CAWOOD, INC — GREENVILLE SC — No. 01038 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA SC — 9088 — REGISTERED ARCHITECT

REFLECTED CEILING PLAN

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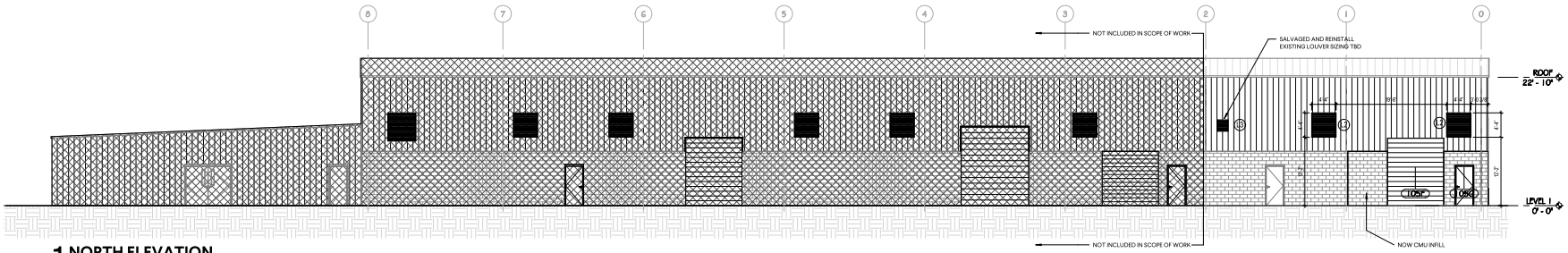
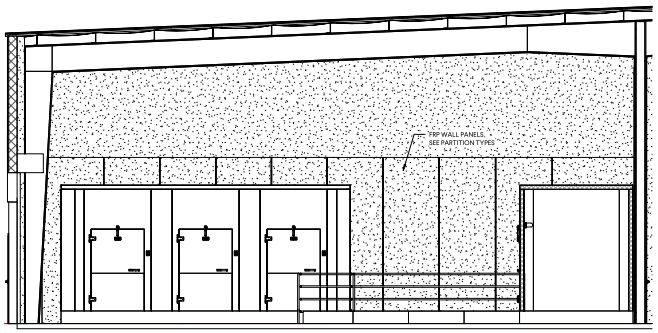
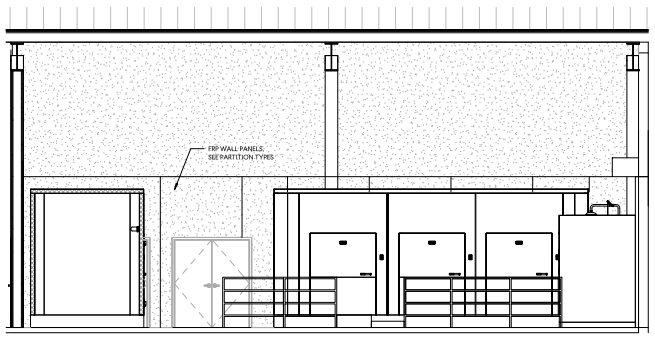


1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



SEE A1.11 PLATFORM FRAMING FOR ALL PLATFORM NOTES AND DETAILS

2 PLATFORM SIDE ELEVATION
SCALE: 1/4" = 1'-0"



SEE A1.11 PLATFORM FRAMING FOR ALL PLATFORM NOTES AND DETAILS

3 PLATFORM FRONT ELEVATION
SCALE: 1/4" = 1'-0"

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA
GODWYN, MILLS & CAWOOD, INC
GREENVILLE SC
No. 01039
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
MARC W. WARREN
COLUMBIA SC
9089
REGISTERED ARCHITECT

EXTERIOR & PLATFORM ELEVATIONS

A3.01

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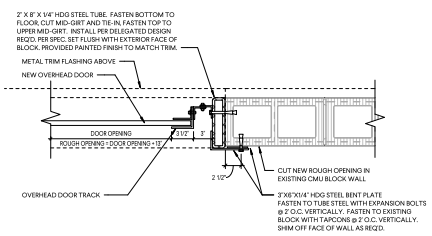
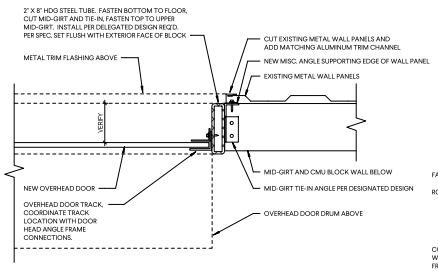
DOOR SCHEDULE

LOCATION		SIZE			DOOR			FRAME		HARDWARE	DETAILS				
DOOR NUMBER	ROOM NAME	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	MATERIAL	GLASS / LOUVER	FRAME TYPE	MATERIAL	HARDWARE SET NO.	HEAD	JAMB	SILL	FIRE RATING	NUMBERED NOTES
105A	CORRIDOR	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM		H2	J2	THRESHOLD	90 MIN	
105B	OFFICE	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM		H2	J2	THRESHOLD	90 MIN	
105C	STORAGE	6' - 0"	7' - 0"	13/4"	F	WD		F1	HM		H2	J2			
105F	HAZWASTE	10' - 0"	12' - 0"	3/4"	RS	SPEC									
105G	HAZWASTE	3' - 0"	7' - 0"	13/4"	F	HM	-	F1	HM		EXT. DRIP CAP		THRESHOLD	90 MIN	

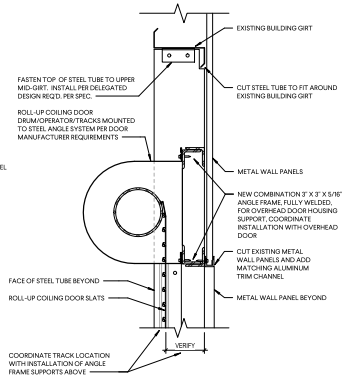
NOTE: THE CONTRACTOR SHALL ROUGH IN ALL OVERHEAD DOORS - THE OWNER SHALL PURCHASE AND INSTALL THE OVERHEAD DOORS. COORDINATE SIZE OF OPENINGS AND STEEL SUPPORTS FOR OVERHEAD DOORS WITH THE OWNER'S CONTRACTOR / INSTALLER.



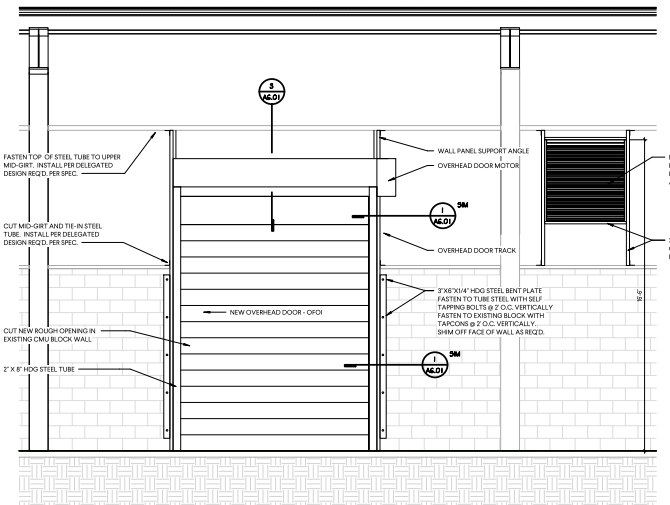
1 OVERHEAD DOOR JAMB @ CMU
SCALE: 1 1/2" = 1'-0"



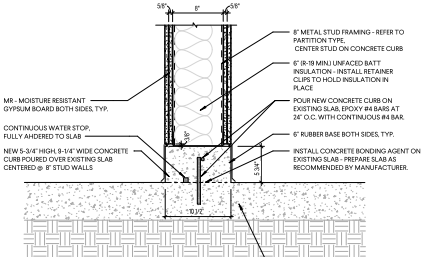
2 OVERHEAD DOOR JAMB @ METAL PANEL
SCALE: 1 1/2" = 1'-0"



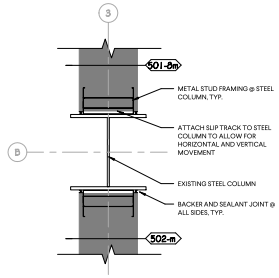
3 OVERHEAD DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



5 OVERHEAD DOOR INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



4 CONCRETE CURB DETAIL
SCALE: 1 1/2" = 1'-0"



6 PLAN DETAIL @ COLUMN
SCALE: 1 1/2" = 1'-0"

DOOR COMMENTS LEGEND

01. NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR FRAMING THE OVERHEAD DOOR OPENINGS INCLUDING MISCELLANEOUS STEEL FOR DOOR HOUSING SUPPORT AND GUIDE RAILS. THE DOORS SHALL BE PROVIDED AS PART OF THE CONTRACT.
02. FACE-OF-WALL MOUNTED OVERHEAD DOOR INSTALLED PER MANUFACTURERS INSTRUCTIONS. PROVIDE 16 GAUGE PREFINISHED STEEL BREAK METAL JAMB AND HEAD TRIM, 4" WIDE WITH HEMMED EDGES, BOTH SIDES OF WALL.
03. PROVIDE (2) 6" HIGH, 3" X 3" X 3/16" PAINTED STEEL ANGLES AT EDGES OF ROUGH OPENING, OPPOSITE DOOR MOUNTS, FASTENED TO STUD FRAMING, TYP.
04. POWER AND CONTROLS FOR OVERHEAD COILING DOOR ARE BY OTHERS, SEE SPECIFICATIONS FOR COORDINATION.
05. PROVIDE AND INSTALL THE HOLLOW METAL FRAME - DOOR AND HARDWARE BY OTHERS

DOOR GENERAL NOTES

1) GENERAL:
A. DOOR AND/OR FRAME CONSTRUCTION SHALL BE AS SPECIFIED UNLESS NOTED OTHERWISE.

B. ALL TYPES OF DOORS ARE REPRESENTED IN THIS SCHEDULE FOR CONVENIENCE. WHERE MORE DESCRIPTIVE INFORMATION MAY BE LOCATED ELSEWHERE, NOTATION IS MADE IN THE NUMBERED NOTES COLUMN. (E.G. ALUMINUM FRAMED ENTRANCE DOORS. SEE GLAZING SCHEDULE FOR CONFIGURATION.)

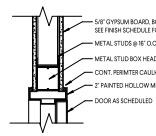
2) MATERIAL AND FINISH:
A. MATERIALS AND FINISHES INDICATED ON THE SCHEDULE ARE AS FOLLOWS:

HM	HOLLOW METAL
ST	STEEL
ST/S	STEEL / STAINLESS OR STAINLESS CLAD
WD	SOLID CORE WOOD
WD/PL	WOOD / PLASTIC LAMINATE FACED
AL	ALUMINUM
GL	GLAZING/GLASS
PREFIN	PREFINISHED (OR FACTORY FINISHED)
PNT	PAINTED
STN	STAINED

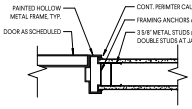
4) LOUVERS:
A. DOOR LOUVER TYPES INDICATION ON THE SCHEDULE ARE AS FOLLOWS:
L1 A" W X B" H, SIGHT PROOF, WEATHER RESISTANT, WITH INSECT SCREEN
L2 A" W X B" H, LIGHT PROOF

5) DOOR HARDWARE:
A. "HARDWARE SET NUMBER" REFERS TO HARDWARE SETS SPECIFIED IN SPECIFICATION SECTION 0671 00 "DOOR HARDWARE".

FRAME DETAILS

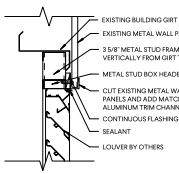


INTERIOR DOOR HEAD

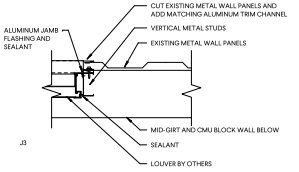


INTERIOR DOOR JAMB

LOUVER DETAILS

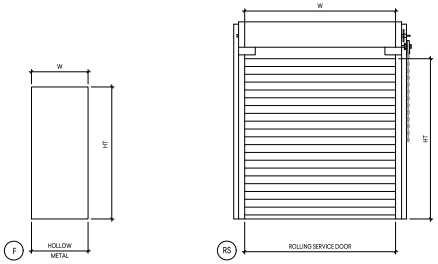


LOUVER HEAD DETAIL

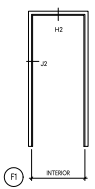


LOUVER JAMB @ METAL PANEL

DOOR TYPES



FRAME TYPES - HOLLOW METAL

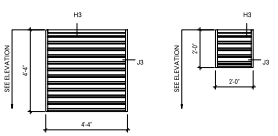


LOUVER TYPE

NOTE: THE CONTRACTOR SHALL ROUGH IN ALL LOUVER OPENINGS - THE OWNER SHALL PURCHASE AND INSTALL THE LOUVERS. COORDINATE SIZE OF OPENINGS AND STEEL SUPPORTS FOR LOUVERS WITH THE OWNER'S CONTRACTOR / INSTALLER.

LOUVERS - ADJUSTABLE LOUVER WITH DRAINABLE BLADES:

LOUVERS SHALL HAVE A MINIMUM FREE AREA OF 50% AND SHALL BE PROVIDED WITH FACTORY-MOUNTED AND ADJUSTED ELECTRICAL ACTUATOR - COORDINATE WITH MECHANICAL CONTRACTOR - RUSKIN ELF6375DX



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HAZWASTE PROCESSING AREA UPGRADES
350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

STATE OF SOUTH CAROLINA — GODWYN, MILLS & CAWOOD, INC — GREENVILLE, SC — No. 01039 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MARC W. WARREN — COLUMBIA, SC — 9088 — REGISTERED ARCHITECT

DOOR SCHEDULE, LEGEND, & DETAILS

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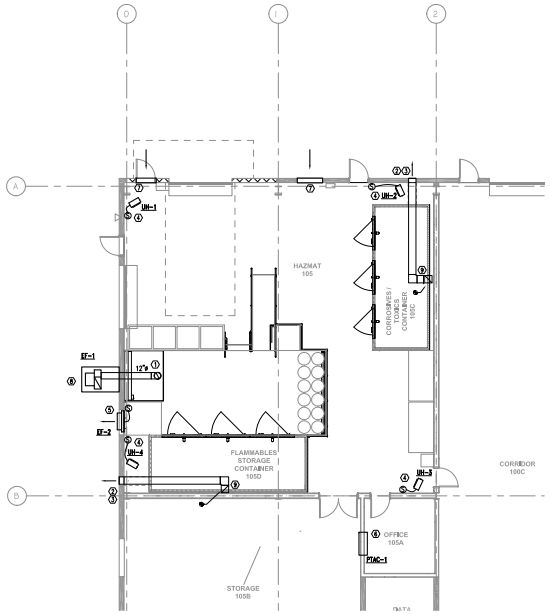

1 FIRST LEVEL FLOOR PLAN - MECHANICAL RENOVATION
1/8" = 1'-0"

RENOVATION NOTES:

1. STAINLESS STEEL SNAP FIT TYPE DUCT TO BE USED ON HAZARDOUS EXHAUST OUT OF FUME HOOD.
2. MATCH EXISTING DUCT DIAMETER AND ROUTE TO NEW LOCATION SHOWN.
3. EXISTING LOUVER TO BE USED WITH NEW DUCT. LOUVERS ARE 18"X18" AND 12"X12" FOR THE 2 CONTAINERS. CONTRACTOR TO COORDINATE NEW LOCATION WITH ARCHITECT.
4. UNIT HEATERS SHALL BE MOUNTED AT LOCATIONS SHOWN. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MOUNTING HEIGHT. THERMOSTAT AND WALL SWITCH SHALL BE MOUNTED AT LOCATION SHOWN AND SWITCHES SHALL BE MOUNTED 4' AFF OR ALIGNED WITH ANY NEARBY LIGHT SWITCHES.
5. EF-2 SHALL BE MOUNTED HIGH IN EXTERIOR WALL AT AN ELEVATION THAT MATCHES EXISTING FANS IN RECYCLING SPACE TO MAINTAIN UNIFORMITY FOR THE ENTIRE BUILDING.
6. PTAC-1 INSTALLED ON WALL SHOWN AS TO NOT PENETRATE THE FIRE RATED WALL. UNIT COMES WITH INTEGRAL THERMOSTAT, WALL SLEEVE AND PLUG IN TYPE DISCONNECT. NO CONDENSATE DRAIN REQUIRED.
7. RUSKIN 52"X52" ELF63750X OR EQUAL LOUVER INSTALLED AT LOCATION SHOWN AT ELEVATION SHOWN ON ARCHITECTURAL PLANS.
8. EF-1 INSTALLED ON STEEL PLATFORM OUTSIDE OF BUILDING. EXHAUST DUCT OUT OF FUME HOOD SHALL PENETRATE EXTERIOR WALL AND DUCT DIRECTLY INTO THE INLET OF THE FAN. PLUME OF FAN SHALL EXTEND UP AND BE SUPPORTED OFF THE SIDE OF THE BUILDING AND THE 8"Ø STACK SHALL EXTEND 10' ABOVE THE ROOF LEVEL. SEE DETAIL ON SHEET M7.1 FOR MORE INFORMATION.
9. ATTACH TO INTEGRAL FAN OUTLET ON BACK SIDE OF CONTAINER.

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z6332 / 50003721

NORTH CAROLINA
GMK, INC.
No. C00287
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
No. 41918
REGISTERED PROFESSIONAL ENGINEER
06/05/2026

MECHANICAL PLANS

M2.1
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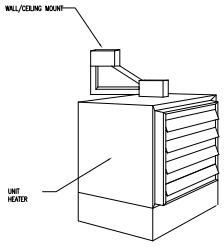
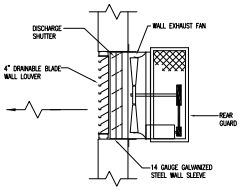
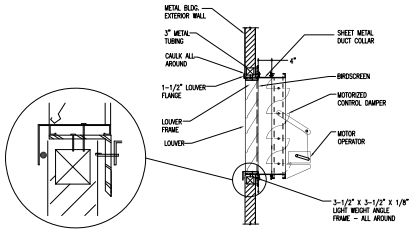


1 UNIT HEATER CONNECTION DETAIL
NTS



2 PROP WALL EXHAUST FAN DETAIL
NTS



3 LOUVER FOR METAL BUILDING
NTS

HVAC LEGEND

DIFFUSER, GRILLE, LOUVER OR REGISTER TYPE — NECK SIZE 6"ø / 100 — PEAK LOAD CFM

RUN-OUT/FLEXIBLE DUCT	SUPPLY DIFFUSER
BALANCING DAMPER	RETURN DIFFUSER
DUCT TURNING DOWN	EXHAUST DIFFUSER
DUCT TURNING UP	THERMOSTAT
	CONNECT TO EXISTING

ABBREVIATIONS

A/C	Air Conditioning	MIN	Minimum
AFF	Above Finished Floor	N/A	Not Applicable
AHU-#	Air Handling Unit Tag	NIC	Not in Contract
BHP	Brake Horsepower	NTS	Not To Scale
CFM	Cubic Feet Per Minute	OBD	Opposed Blade Damper
CU-#	Condensing Unit Tag	OD	Outside Diameter
DD	Duct Smoke Detector	PD	Pressure Drop
DB	Dry Bulb Temperature	PTAC-#	PTAC Unit Tag
DN	Duct Down	RET	Return
EAT	Entering Air Temperature	RH	Relative Humidity
EF-#	Exhaust Fan Tag	SA	Supply Air
EWB	Entering Air Wet Bulb	SHT	Sheet
EXH	Exhaust	SP	Static Pressure
FD	Fire Damper	SPAC-#	Single Packaged Air Conditioner Tag
FL	Floor	S	Switch
HP	Horsepower	T	Thermostat
HP-#	Heat Pump Tag	TEMP	Temperature
KW	Kilowatts	TSTAT	Thermostat
LAT	Leaving Air Temperature	UH-#	Unit Heater Tag
LWB	Leaving Air Wet Bulb	WAC-#	Wall Mounted Air Conditioner Tag
MAX	Maximum	WB	Wet Bulb Temperature
MBH	Thousand BTU/Hr (thousands)	ZD	Zone Damper

MECHANICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS; SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
2. EXTEND ALL DRAIN LINES AS INDICATED. ROUTE TO AVOID INTERFERENCE WITH PASSAGEWAYS. CONDENSATE DRAINS SHALL BE TRAPPED. SLOPE DRAIN LINES 1/8" PER FOOT.
3. ALL PIPING SHALL PITCH DOWN IN DIRECTION OF FLOW OR AS INDICATED ON DRAWINGS: 1" PER 40 FEET WITH MANUAL AIR VENTS AT ALL HIGH POINTS, AND 3/4" DRAIN VALVES AT ALL LOW POINTS.
4. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS AND PARTITIONS EXCEPT WHERE PROHIBITED BY FIRE CODES.
5. LOCATE ALL THERMOSTATS, HUMIDISTATS AND SWITCHES 4'-0" ABOVE FINISH FLOOR; ALIGN WITH LIGHT SWITCHES.
6. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT. SUPPORT DETAILS SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER.
7. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
8. CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.
9. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THRU EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AND COUNTERFLASHED.
10. PROVIDE DIELECTRIC FITTINGS AT ALL LOCATIONS WHERE DISSIMILAR METALS ARE JOINED IN PIPING AND DUCT SYSTEMS.

PTAC UNIT SCHEDULE

TAG	CAPACITY CFM	TYPE	WEIGHT (LBS)	MANUFACTURER	MODEL	COMPRESSOR RLA	COMPRESSOR NO.	ELECTRICAL WATTS	ELECTRICAL VOLTS/PHASE	COOLING OUTDOOR DB (°F)	COOLING TOTAL (MBH)	HEATING OUTDOOR DB (°F)	HEATING TOTAL (MBH)	REMARKS
PTAC-1	340	THRU WALL	100	ISLANDAIRE	EZ42D7L1	---	1	565	115/1	95	7.2	47	6.4	ALL

1. INTEGRAL THERMOSTAT
2. PLUG IN DISCONNECT
3. MOUNTING KIT WITH WALL SLEEVE
4. INTEGRAL FILTERS
5. NEMA 5-20R PLUG
6. LOUVER

ELECTRIC UNIT HEATER SCHEDULE

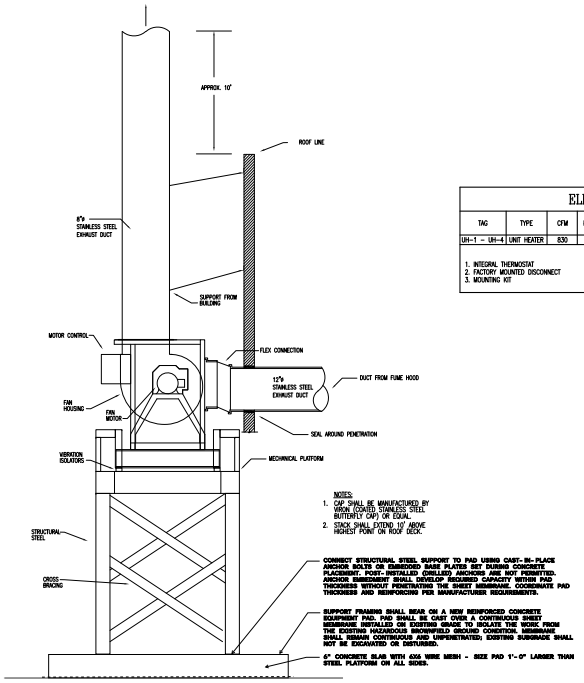
TAG	TYPE	CFM	KW	WEIGHT (LBS)	OUTPUT (MBH)	ELECTRICAL (VOLTS/PHASE)	MANUFACTURER	MODEL	NOTES
UH-1 – UH-4	UNIT HEATER	830	10	67	34.1	460/3	MODINE	HER100C3306	1,2,3,4,5,6

1. INTEGRAL THERMOSTAT
2. FACTORY MOUNTED DISCONNECT
3. MOUNTING KIT
4. SUMMER/WINTER SWITCH
5. LOW VOLTAGE TRANSFORMER
6. WALL MOUNT THERMOSTAT

FAN SCHEDULE

TAG	TYPE	CAPACITY CFM	E.S.P. (IN. WG.)	FAN RPM	MOTOR HP	MOTOR MCA	ELECTRICAL (VOLTS/PHASE)	MANUFACTURER	MODEL NO.	NOTES
EF-1	UTILITY VENT SET	1,300	1.5	3194	1.5	3.75	460/3	GREENHECK	USF-6	1,2,3,4,6,8,9,10
EF-2	SIDEWALL PROP	5,508	0.42	860	1	---	460/3	GREENHECK	AER-36-03-060B	1,3,5,6,7

1. MOTORSIDE FAN GUARD
2. HI-PLUME STACK
3. DISCONNECT SWITCH
4. WIRED TO SENSOR IN FUME HOOD
5. WIRED TO WALL SWITCH
6. BACKDRAFT DAMPER
7. WEATHER HOOD
8. EPOXY COATING
9. FACTORY PROVIDED VFD
10. EXPLOSION PROOF MOTOR



4 FUME HOOD EXHAUST FAN DETAIL
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DRAWN BY: MJF
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HAZWASTE PROCESSING AREA UPGRADES
350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z6332 / 50003721

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
GMK, INC. No. C00287

REGISTERED PROFESSIONAL ENGINEER No. 41993
06/05/2026

MECHANICAL NOTES, SCHEDULES & DETAILS

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Announcement
ASCE 7-22 is now available.

OSHPD

350 Wayne St, Columbia, SC 29201, USA

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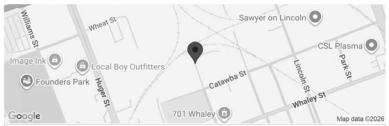

Date	4/6/2026, 2:12:31 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Default (See Section 11.4.3)

Type	Value	Description
S_S	0.348	MCE_R ground motion. (for 0.2 second period)
S_1	0.114	MCE_R ground motion. (for 1.0s period)
S_{MS}	0.529	Site-modified spectral acceleration value
S_{M1}	0.271	Site-modified spectral acceleration value
S_{DS}	0.353	Numeric seismic design value at 0.2 second SA
S_{D1}	0.181	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	C	Seismic design category
F_a	1.522	Site amplification factor at 0.2 second
F_v	2.371	Site amplification factor at 1.0 second
PGA	0.197	MCE_g peak ground acceleration
F_{PGA}	1.407	Site amplification factor at PGA
PGA_M	0.276	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	0.348	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	0.388	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.114	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.13	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)

SEISMIC DESIGN CATEGORY C

GENERAL NOTES

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.
C. WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (I_p) 1.0		1.5	
		SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE
ROOF MOUNTED		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
FLOOR MOUNTED		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
WALL MOUNTED		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
COMPONENT SUPPORTS		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.6.4
SUSPENDED EQUIPMENT	INLINE W/ DUCT	NOT REQUIRED	13.1.4.5	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTES 1,2)	13.6.7
	NOT INLINE W/ DUCT	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		NOT REQUIRED	13.1.4.5	RESTRAIN IF > 2"	13.6.8.3.b
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.6.8.3.3
SUSPENDED PIPE ON TRAPEZE		NOT REQUIRED	13.1.4.5	RESTRAIN IF ANY PIPE ON TRAPEZE > 2" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT	13.6.7.3
DUCTWORK		NOT REQUIRED	13.6.6	RESTRAIN IF ≥ 6 SQ FT OR > 20 LBS/FT (SEE NOTE 3)	13.6.6
SINGLE CONDUIT		NOT REQUIRED	13.6.5.6	RESTRAIN IF ≥ 2.5"	13.6.5
CABLE TRAY/BUS DUCT/ TRAPEZED CONDUIT		NOT REQUIRED	13.6.5.6	RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT	13.6.5
PENDANT, LAY-IN, & CAN LIGHTS		REQUIRED (SEE NOTE 3)	13.5.6.2	REQUIRED (SEE NOTE 4)	13.5.6.2
COMPONENT CERTIFICATION		NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 5)	13.2.2

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE.
2. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE AND CONDUIT CONNECTIONS ONLY.
3. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
4. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD AND BUILDING OFFICIAL.

TABLE 1 - ROD HANGER LENGTH EXEMPTION SCENARIOS

SYSTEM	EXEMPTION SCENARIO 1	EXEMPTION SCENARIO 2	EXEMPTION SCENARIO 3
PIPING[1,2] I_p = 1.0	TRAPEZE[3] WITH 3/8" RODS ≤ 12 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	TRAPEZE[3] WITH 1/2" RODS ≤ 12 IN. FROM STRUCTURE ≤ 200 LBS. TOTAL SUPPORTED WEIGHT OR ≤ 24 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	INDIVIDUALLY SUPPORTED WITH 3/8" OR 1/2" RODS ≤ 12 IN. FROM STRUCTURE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD ≤ 50 LBS.
PIPING I_p = 1.5	NO EXEMPTION ALLOWED		
EQUIPMENT I_p = 1.0 OR 1.5	NO EXEMPTION ALLOWED		
CONDUIT, CABLE TRAY, RACEWAY[2,3] I_p = 1.0	TRAPEZE[3] WITH 3/8" RODS ≤ 12 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	TRAPEZE[3] WITH 1/2" RODS ≤ 12 IN. FROM STRUCTURE ≤ 200 LBS. TOTAL SUPPORTED WEIGHT OR ≤ 24 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	INDIVIDUALLY SUPPORTED WITH 3/8" OR 1/2" RODS ≤ 12 IN. FROM STRUCTURE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD ≤ 50 LBS.
CONDUIT, ETC. I_p = 1.5	NO EXEMPTION ALLOWED		
DUCT[2,3] I_p = 1.0	TRAPEZE[3] WITH 3/8" RODS ≤ 12 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	TRAPEZE[3] WITH 1/2" RODS ≤ 12 IN. FROM STRUCTURE ≤ 200 LBS. TOTAL SUPPORTED WEIGHT OR ≤ 24 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	INDIVIDUALLY SUPPORTED WITH 3/8" OR 1/2" RODS ≤ 12 IN. FROM STRUCTURE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD ≤ 50 LBS.
DUCT I_p = 1.5	NO EXEMPTION ALLOWED		

NOTES:
1. FLEXIBLE CONNECTIONS, EXPANSION LOOPS, OR OTHER ASSEMBLIES MUST BE PROVIDED TO ACCOMMODATE THE RELATIVE DISPLACEMENT BETWEEN COMPONENT AND PIPING.
2. FLEXIBLE CONNECTIONS OR OTHER ASSEMBLIES MUST BE PROVIDED BETWEEN THE CABLE TRAY OR RACEWAY OR DUCT SYSTEM AND ASSOCIATED COMPONENTS TO ACCOMMODATE THE RELATIVE DISPLACEMENT.
3. NO EXEMPTION ALLOWED WHEN INSTALLATION REQUIRES 5/8" ROD OR LARGER.
4. NO EXEMPTION ALLOWED WHEN TRAPEZE ASSEMBLY INCLUDES ANY SINGLE PIPE/CONDUIT/DUCT REQUIRING SEISMIC RESTRAINT BASED ON SIZE/WEIGHT.
5. NO EXEMPTION ALLOWED FOR NON DUCTILE PIPING.

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room Name / Number
- Area Being Demolished
- Area Not In Contract

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIX	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECTURAL/TECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	OA	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
EX	EXHAUST AIR	RA	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RLA	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STAND/PIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

"NOTE"
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Symbols

- Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- CW — Domestic Cold-Water
- NPW — Non-Potable Water
- S-CW — Soft Cold-Water
- F-CW — Filtered Cold-Water
- RO — Reverse Osmosis Water
- HW — Domestic Hot-Water
- HW 140° — Domestic Hot-Water 140°
- HWR — Hot-Water Recirculation
- HWR 140° — Hot-Water Recirculation 140°
- SS — Sanitary Drain
- V — Sanitary Vent
- WV — Sanitary Wet Vent
- CW/V — Combination DWV
- C — Condensate Drain
- ID — Indirect Drain
- GW — Grease Waste
- GV — Grease Vent
- OW — Oil Waste
- OV — Oil Vent
- PD — Pump Discharge
- SHWR — Solar Water Return
- SHWS — Solar Water Supply
- SD — Storm Drain
- OSD — Storm Overflow
- CA — Compressed Air
- G — Natural Gas
- LP — Liquid Propane
- Pipe Rise / Drop

Pipe Accessory Notes

- 4" FCO — Cleanout
- 2" BACKWATER — Swing Check
- 2" CHECK — Check Valve
- 2" CHECK — Alternate Check Valve
- 2" BALANCE — Balancing Valve
- 2" CIRC — Circuit Setter
- 2" GATE — Gate Valve
- 2" QUICK — Quick Opening Valve
- 2" S/O — Ball Valve
- 2" STRAIN — Fluid Strainer
- 1" GAS-CNTRL — Emergency Gas Shutoff
- 1" PLUG — Plug Valve
- 1" GAS COCK — Gas Shutoff Cock
- 1" REG — Gas Regulator
- 1" T/V — Thermostatic Valve
- PRIMER — Trap Primer
- 2" M-CNTRL — Elec. Control Valve
- TMV,XTIP — Mixing Valve
- TMV/EM — Emergency Mixer
- 2" PRV — Pressure Reducing Valve
- 2" METER — Water Meter
- 1/2" METER — Irrigation Meter
- Double Check Valve
- Reduced Pressure Zone

Plumbing Fixture Notes

Floor Drain
- 6" FD-1 — Design Size
- 3 DFU — Identity Type / Drainage Fixture Units
- 2" FD-3 — Floor Drain w/ Deep Seal Trap
- 2" FD-3P — Floor Drain w/ Trap Primer "P" Indicates Primer Connection
- 2" FD-7 — Floor Drain w/ Integral Cleanout
- 3" AD-1 — Area Drain (No Trap)
- 6" DD-1 — Deck Drain
- 3" HD-1 — Hub Drain (Funnel Type)
- 9" FS-1 — Floor Sink
- 8" SD-12 — Roof Drain
- 6" SD-1 — Combination Drain / 2000 SF — Rainfall Surface Area

Plumbing General Notes

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
B. PITCH SANITARY SEWER PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER SANITARY SEWER PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
C. PROVIDE CLEANOUTS AT CODE REQUIRED INSTERVALS IN ACCESSIBLE LOCATIONS & AT THE BASE OF ALL PLUMBING RISERS.

Project Requirements

A. REMOVE ALL UNUSED PIPING, AND ACCESSORIES.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE SPACE AND WITHIN CLOSE PROXIMITY TO THE SPACE.
C. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
D. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
E. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE SC BUILDING CODE AND SC PLUMBING CODE.
F. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
G. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES, INCLUDING THE 2021 SC BUILDING CODE, 2021 SC PLUMBING CODE, AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.
H. LOCATE PIPING AND EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
I. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED.
K. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
L. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
L. ADJUST PIPING SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
M. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
N. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, SPECIFICATIONS & MANUFACTURER'S INSTALLATION INSTRUCTIONS.
O. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
P. LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
Q. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
R. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
S. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
T. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
U. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE. PROVIDE LONGER WARRANTIES AS REQUIRED BY THE SPECIFICATIONS.

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SOUTH CAROLINA — GMK, INC. No. C00287 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 23907 — TODD E. SMITH — PROFESSIONAL ENGINEER

HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

PLUMBING ABBREVIATIONS, NOTES & LEGENDS

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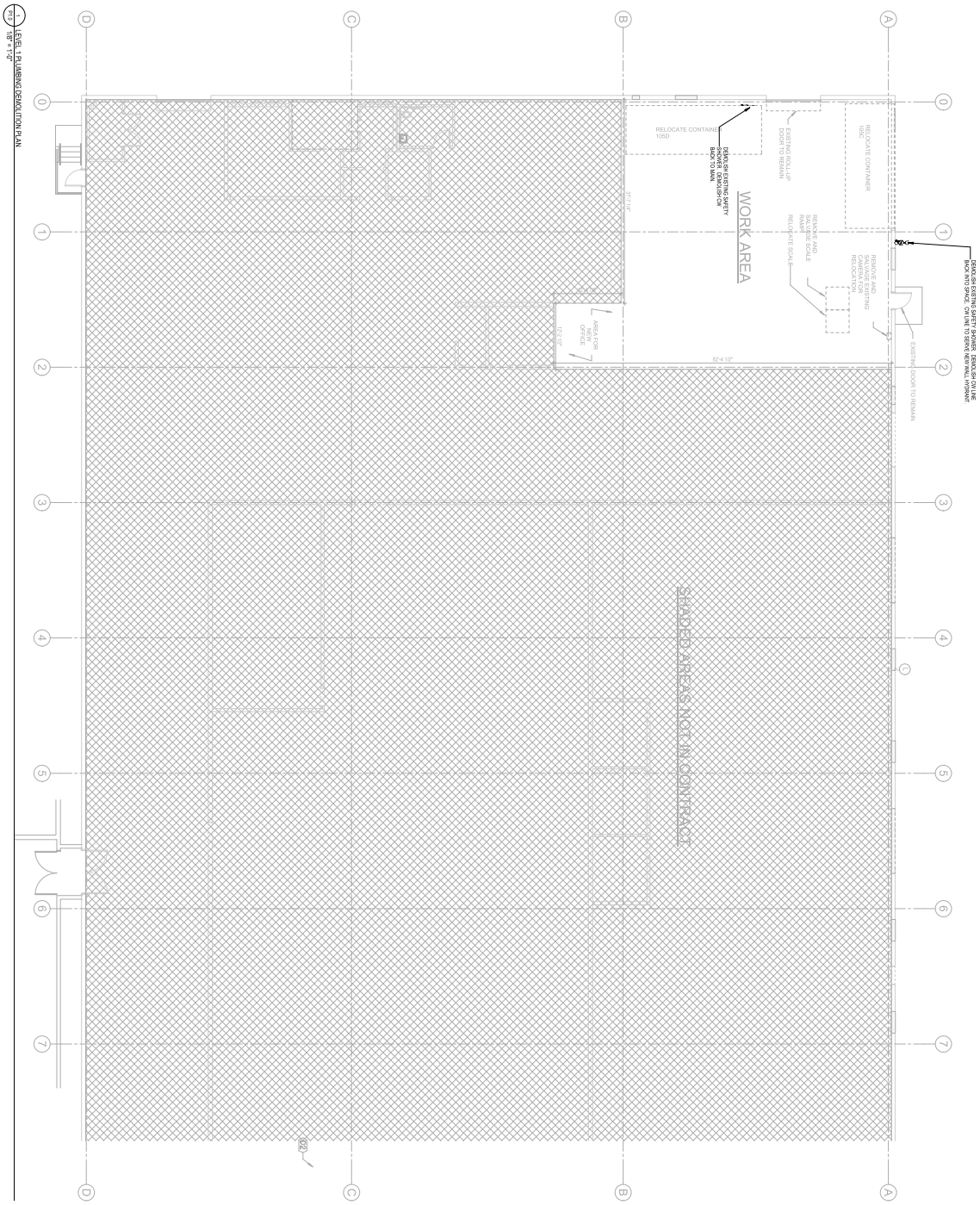

PLUMBING DEMOLITION PLAN

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION

GMC PROJECT #: ACOL260001

U OF SC PROJECT #: H27-Z632 / 50003721

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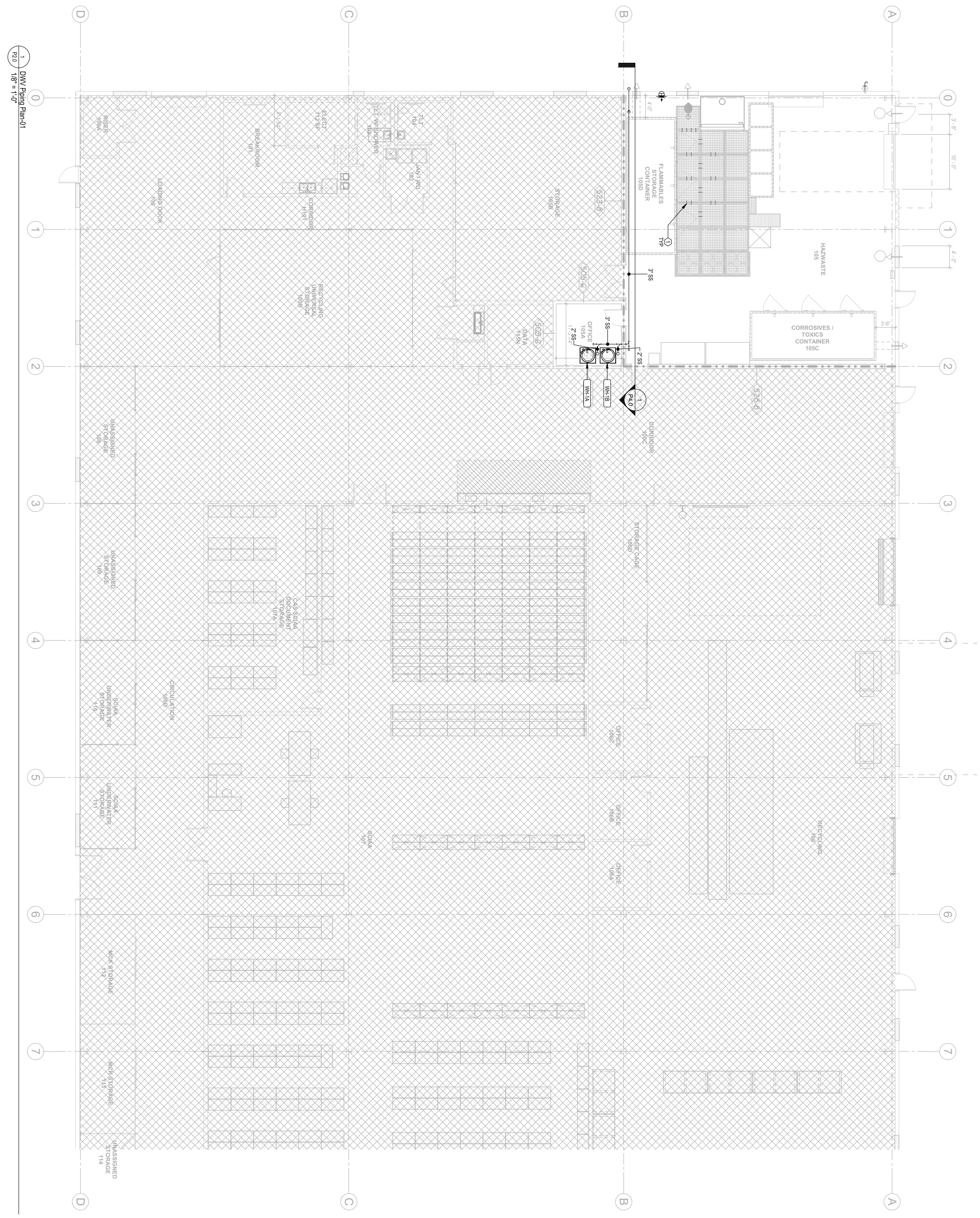

1 P2.0 DWV Piping Plan-01 1/8" = 1'-0"

KEYNOTES

1	PROVIDE BANJO PF220 BOLTED TANK BULKHEAD CONNECTION (OR EQUAL) TO CONNECT PALLET SUMPS. PROVIDE 2" THREADED PVC NIPPLE TO INTERCONNECT BULKHEAD FITTINGS. CONTRACTOR TO TRIM ANY STOPS IN THE FLANGE FITTING TO ALLOW THE THREADED NIPPLE TO BE INSTALLED FROM THE INTERIOR OF THE PALLET SUMPS. IF THE SURFACE OF THE SUMP IS SLOPED, THE CONTRACTOR SHALL FABRICATE A SOLID PVC SHIM PLATE WITH A EPDM GASKET TO PROVIDE A VERTICAL SURFACE FOR MOUNTING. PROVIDE LONGER MATCHING BOLTS FOR THE BULKHEAD FITTING IF NECESSARY. (TYPICAL OF 24)

DWV NOTES:
1. PRIME & PAINT OUTDOOR PVC PIPING PER MANUFACTURER'S RECOMMENDATIONS.

DWV PLAN

HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

ISSUE	DATE
100% CD'S	6/3/26

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P2.0
sheet of

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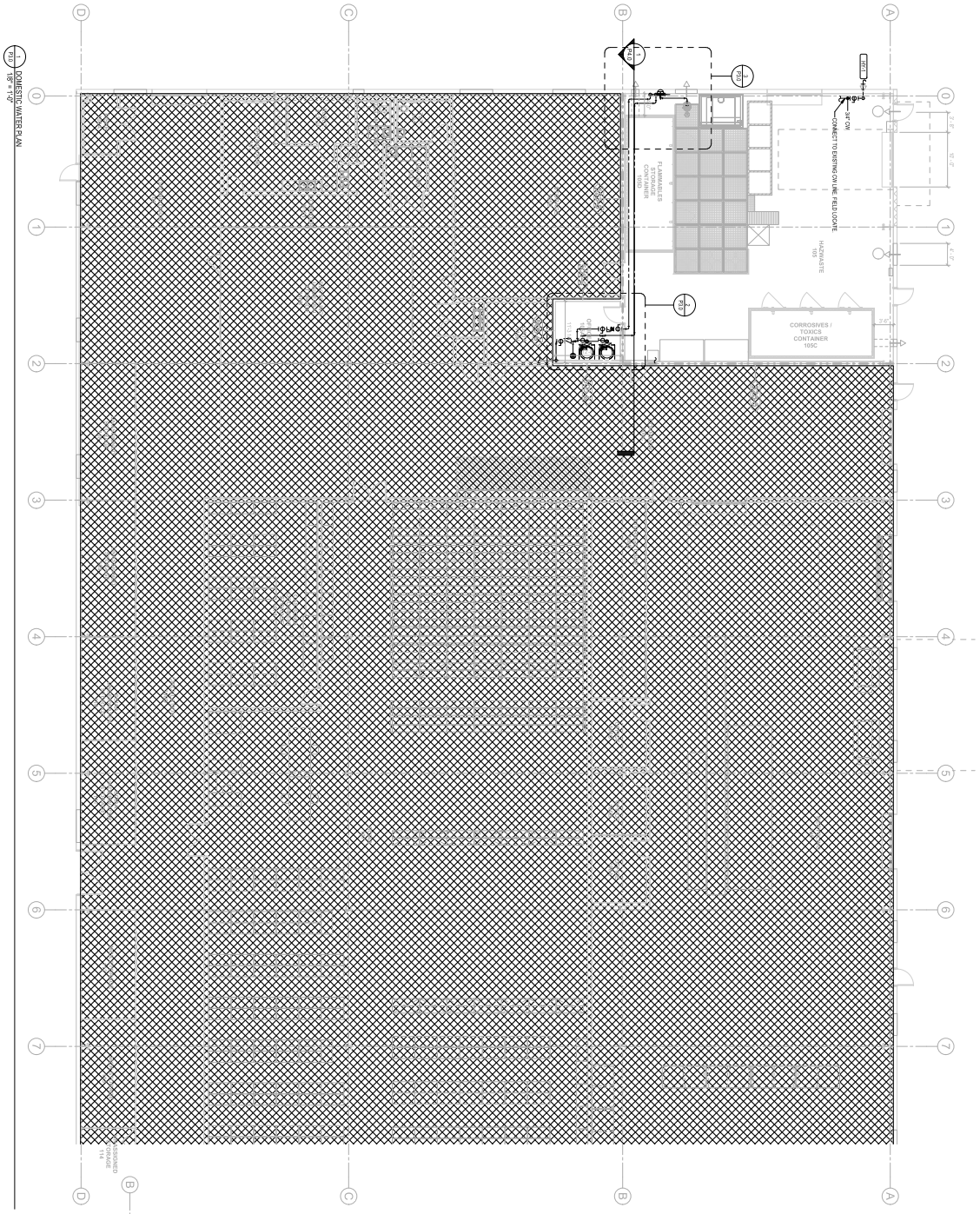
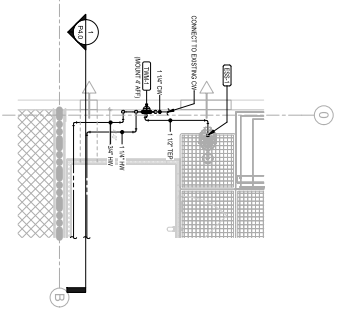
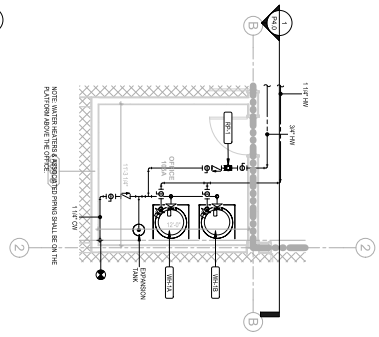
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 23907 TODD E. SMITH
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION GMK, INC. No. C00287



P4.0 DOMESTIC WATER PLAN
1/8" = 1'-0"



P4.1 THERMOSTATIC MIXING VALVE
1/4" = 1'-0"



P4.2 ENLARGED WATER HEATER AREA PLAN
1/4" = 1'-0"

DOMESTIC WATER PLAN

P3.0
sheet of

HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

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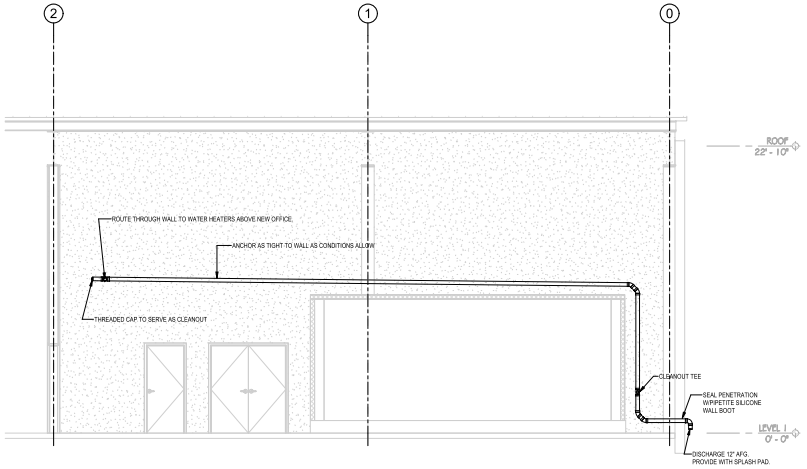
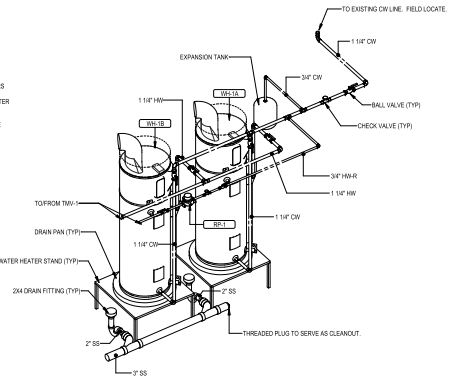
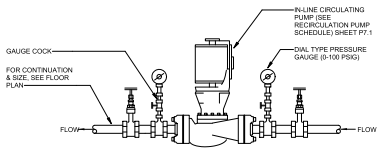


1 / P4.0 WATER HEATER DRAIN SECTION
NOT TO SCALE

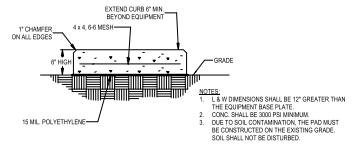
NOTES:
1. ROUTE T&P DISCHARGE TO DRAIN PAN.
2. ROUTE CONDENSATE TO DISCHARGE TO 2X4 DRAIN FITTING.
3. ROUTE DRAIN PAN OUTLET TO DISCHARGE TO 2X4 DRAIN FITTING.
4. ORIENT DRAIN PAN OUTLET TO ALIGN WITH SS DRAIN SYSTEM.
5. PROVIDE HEAT TRAPS ON WATER HEATER CONNECTION.
6. PROVIDE WITH VACUUM BREAKERS ON CW SUPPLY TO WATER HEATERS (NOT SHOWN).
7. PROVIDE THERMOMETER ON HW DISCHARGE FROM EACH WATER HEATER (NOT SHOWN).
8. SUPPORT DRAIN LINES FROM THE FLOOR.
9. PROVIDE WITH UNIONS TO ALLOW REPLACEMENT OF EQUIPMENT. PIPE ACCESSORIES, ETC.
10. SEE RECIRCULATING PUMP DETAIL ON THIS SHEET.



2 / P4.0 WATER HEATER ISOMETRIC



3 / P4.0 RECIRCULATING PUMP DETAIL
NTS



NOTES:
1. L & W DIMENSIONS SHALL BE 12" GREATER THAN THE EQUIPMENT BASE PLATE.
2. CONC. SHALL BE 3000 PSI MINIMUM.
3. DUE TO SOIL CONTAMINATION, THE PAD MUST BE CONSTRUCTED ON THE EXISTING GRADE. SOIL SHALL NOT BE DISTURBED.

4 / P4.0 EQUIPMENT PAD DETAIL
NTS

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION GMK, INC. No. C00287

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 23907 TODD E. SMITH

PLUMBING DETAILS, SECTIONS & ISO. VIEWS

P4.0

sheet of

6/8/2026 2:19:31 PM TEMPLATE VERSION: 2021.1

PLUMBING FIXTURES

FIXTURE TAG	FIXTURE				TRIM			SENSORED	FLOWRATE		ROUGH-IN CONNECTION				REMARKS	IMAGES
	TYPE	MANUFACTURER	MODEL	COLOR/FINISH	MFGR	MODEL	COLOR/FINISH		GPM	GPF	CW	HW	SAN	VENT		
ESS-1	COMBINATION DRENCH SHOWER & EYE/FACE WASH	BRADLEY	S19314GG	SAFETY YELLOW	N/A	N/A	N/A	N/A	22 (SHOWER)/ 3.0 MIN (EYE/FACE WASH)	N/A	1-1/4"	1-1/4"	N/A	N/A	ANSI/ISEA Z358.1-2014 COMPLIANT, SS PULL DOWN ROD FOR SHOWER. PUSH HANDLE FOR EYE/FACE WASH. INTERNAL STRAINERS. INTEGRAL FLOW CONTROLS FOR SHOWER (22 GPM) & EYE/FACE WASH (5.1 GPM). FLIP UP DUST COVERS FOR EYE/FACE WASH. PROVIDE 1-1/2" TEMPERED WATER FROM VALVE TMV-1 TO SAFETY SHOWER INLET. PROVIDE LOCKABLE ISOLATION VALVES ON TEMPERED WATER, CW & HW LINES TO/FROM MIXING VALVE. MOUNT ON CONCRET PAD PROVIDED IN ARCHITECTURAL PLANS. COORDINATE PAD HEIGHT TO MATCH PLATFORM ELEVATION.	
HY-1	WALL HYDRANT-FREEZEPROOF	WOODFORD	65	CHROME	N/A	N/A	N/A	N/A	N/A	N/A	3/4"	N/A	N/A	N/A	ANTI-SIPHON, 3/4" MALE HOSE THREAD OUTLET, LOOSE KEY OPERATION, MOUNT APPROXIMATELY 24" AFF (ALIGN WITH BLOCK/BRICK COURSING IF MOUNTED IN THAT STYLE WALL)	

THERMOSTATIC MIXING VALVE

UNIT TAG	MFGR	MODEL	FLOW @ 5PSID (GPM)	FLOW @ 20 PSID (GPM)	FLOW @ 30 PSID (GPM)	MIN. FLOW (GPM)	SERVICE	NOTES
TMV-1	BRADLEY	EFX20	6.8	23.9	30.3	3	SAFETY SHOWER & EYEWASH	1-4

NOTES:
1. PROVIDE WITH MFGR'S WALL MOUNTED SS CABINET W/PLEXIGLASS WINDOW.
2. ROUGH BRASS FINISH.
3. PROVIDE WITH PIPED ASSEMBLY W/INLET & OUTLET SHUTOFF.
4. ASSE 1071 CERTIFIED.

HEAT PUMP WATER HEATER

UNIT TAG	MFGR	MODEL	TYPE	VOLUME (GAL)	1ST HOUR DELIVERY (GAL)	RECOVERY (GPH)	TEMP RISE (F)	ELEC. HEAT (KW)	UNIFORM ENERGY FACTOR (UEF)	VOLTAGE	PHASE	HERTZ	NOTES
WH-1A	RHEEM	HPLD80-2RH	HYBRID ELECTRIC HEAT PUMP	80	87	27	90	4.5	4.07	208-240	1	60	1-5
WH-1B	RHEEM	HPLD80-2RH	HYBRID ELECTRIC HEAT PUMP	80	87	27	90	4.5	4.07	208-240	1	60	1-5

NOTES:
1. PROVIDE WITH FUSED DISCONNECT.
2. PROVIDE WITH HOLDRITE 40-S-34-U WATER HEATER STAND (2000 LB CAPACITY) & HOLDRITE WATER HEATER RESTRAINT STRAPS.
3. PROVIDE WITH EXPANSION TANK. SIZE PER MFGR'S RECOMMENDATION. PROVIDE WITH HOLDRITE EXPANSION TANK MOUNTING BRACKET.
4. PROVIDE WITH HOLDRITE QP-30-C DRAIN PAN.
5. PROVIDE WITH HEAT TRAP CONNECTIONS.

RECIRCULATION PUMP

UNIT TAG	MFGR	MODEL	LOCATION	TYPE	FLOW (GPM)	HEAD (FT)	SERVICE	MOTOR			ELECTRICAL			NOTES
								W	RPM	TYPE	VOLTAGE	PHASE	HERTZ	
RP-1	B&G	ECOCIRC E3-6V	WH-1	IN-LINE	1.5	8	HW RECIRCULATION	28	1	ELEC	115	1	60	1-4

NOTES:
1. PROVIDE WITH MANUFACTURER'S THERMOSTATIC CONTROLS. SET TO 130 F.
2. PROVIDE WITH PLUGGED CONNECTION. COORDINATE OUTLET LOCATION WITH ELECTRICAL CONTRACTOR.
3. PROVIDE WITH LEAD-FREE BRASS OR SS BODY.
4. PROVIDE WITH VIBRATION ISOLATION MOUNTING BRACKETS.

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

SOUTH CAROLINA LABOR, LICENSING AND REGULATION
GMK, INC.
No. C00287
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LABOR, LICENSING AND REGULATION
PROFESSIONAL ENGINEER
No. 23907
TODD E. SMITH

PLUMBING SCHEDULES

P6.0

sheet of

6/8/2026 2:19:31 PM TEMPLATE VERSION 2021.1

Columbia Water
Drinking Water • Wastewater • Stormwater

Utility Operations / Planning & Strategy Division
PO Box 147 | Columbia, SC 29217 | (803) 545-3400

April 6, 2026

Re: Fire Hydrant Test Data; USC 350
Wayne St. Renovation

Mr. Eric Smith
GMK Associates
1201 Main Street Ste. 21
Columbia, SC 29201

Dear: Mr. Smith

This is in response to your request for a fire hydrant test in the referenced area.

Fire hydrant 1488DHYD located approximately 140 feet north of Catawba Street on the eastside of Wayne Street was tested at 11:32 a.m. on March 31, 2026. The initial pressure was 116 psi; the hydrant flows 1850 gpm with a residual pressure of 98 psi.

The above data does not necessarily indicate that there is sufficient pressure and flow to provide adequate fire protection and is being furnished for informational purposes only. This letter does not warrant or guarantee any specific level of water service or that there is sufficient capacity in the City's system to meet any specific level of service. All projects will be evaluated on a case-by-case basis upon submittal to the City of Columbia's Utilities and Engineering Department.

Should you have any further questions regarding the above, please feel free to contact Jeremy Yates at 803-545-3881.

Yours very truly,

Jeremy W Yates
Field Operations Manager
Columbia Water

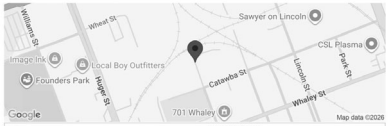
ColumbiaSCWater.Net

Announcement
ASCE 7-22 is now available.

OSHPD

350 Wayne St, Columbia, SC 29201, USA

Latitude, Longitude: 33.9873147, -81.0365655



Date	4/6/2026, 2:12:31 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Default (See Section 11.4.3)

Type	Value	Description
S_S	0.348	MCE_R ground motion. (for 0.2 second period)
S_1	0.114	MCE_R ground motion. (for 1.0s period)
S_{MS}	0.529	Site-modified spectral acceleration value
S_{M1}	0.271	Site-modified spectral acceleration value
S_{DS}	0.353	Numeric seismic design value at 0.2 second SA
S_{D1}	0.181	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	C	Seismic design category
F_a	1.522	Site amplification factor at 0.2 second
F_v	2.371	Site amplification factor at 1.0 second
PGA	0.197	MCE_G peak ground acceleration
F_{PGA}	1.407	Site amplification factor at PGA
PGA_M	0.276	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	0.348	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	0.366	Factored uniform-hazard (2% probability of exceedence in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.114	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.13	Factored uniform-hazard (2% probability of exceedence in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)

Fire Sprinkler System Specification Sheet
(Per §403.10.1.5b)

Project Data

Project name: HAZWASTE PROCESSING AREA UPGRADES

Location in South Carolina: Address (street # & name): 350 WAYNE STREET; City: COLUMBIA; County: RICHLAND; State Project: ☐ Yes ■ No; State Project #:

Water Supply Information
(Flow test data must be less than 1 year old per IBC/IFC/NFPA/ASTM)

Date test conducted: 3 / 31 / 2026; Static pressure (psi): 116; Residual pressure (psi): 98; Flow (gpm): 1850

Distances of test gauges relative to the base of the riser: Horizontal (ft): 100; Vertical (elevation difference in ft): 0

Source of water supply: ☐ Municipal dead-end ■ Municipal circulation ☐ existing fire pump ☐ Other: Pipe Size (in.): 6

Test data by/from: Name: JEREMY W. YATES; Title: FIELD OPERATIONS MANAGER; Organization: COLUMBIA WATER; Phone: 803-545-3881

Fire pump: ☐ New ☐ Existing; Rated Pressure (psi): ; Churn Pressure (psi): ; ■ No Pump; Rated Capacity (gpm): ; Pressure @ 150% flow (psi):

On-site water storage: ☐ Yes ■ No ☐ New ☐ Existing ☐ Tank ☐ Other: Capacity (gal):

NFPA Hazard Classification
(Attach continuation page when necessary)

Area #	Hazard Class or Code Reference	Description of Hazard Protected (including occupancy use group, and details of storage arrangement as applicable (including commodity class, rack arrangement type, aisling and storage height.))
1	LIGHT HAZARD	OFFICE
2	EXTRA HAZARD GROUP 1	ALL AREAS U.N.O.

Design Parameters
(Attach continuation page when necessary)

Area #	System Type	Density(gpm/ft²)/Area(ft²), or Other (Reference code sections)	Inside Hose (gpm)	Outside Hose (gpm)
1	DRY	0.15	0	100
2	DRY	0.39	0	500

Seismic Design Data: S_{DS}=0.348; Site Classification=D; Seismic Design Category=C

Codes and Standards
(Attach continuation page when necessary)

Applicable Codes, Standards, & Editions (i.e. 2018 IBC, 2016 NFPA 13, etc.) for the Scope of Work on the Fire Sprinkler System: 2021 SC BUILDING CODE, 2021 SC FIRE CODE, 2019 NFPA 13

Scope of work (i.e. sprinkler system A.G. from 5'-0" A.F.F., U.G. from top to 5'-0" outside, etc.) and notes (attach continuation page when necessary): MODIFY EXISTING DRY PIPE SYSTEM TO ACCOMODATE RENOVATION PLANS.

Specifier's Information

Name: ERIC SMITH
Engineering services provided through a firm: ■ Yes ☐ No
Firm name: GMK ASSOCIATES, INC
Address: 1201 MAIN ST., SUITE 21
City: COLUMBIA; State: SC; Zip: 29201
Phone: 803-256-0000; Fax: N/A
E-mail: esmith@gmkia.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION GMK, INC. No. C00287 — Certificate of Authorization

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 23907 TODD E. SMITH — Professional Engineer's Seal

Revision No.: 0
Page 1 of 1
Signature:
Date: 4/9/2026

Form Version: July 1, 2021

General Plan Symbols

- Plan Revision Number
- X / FPX.X — Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room / 1 — Room Name / Number
- Area Being Demolished
- Area Not In Contract

Fire Protection Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- FP-W — Wet Fire Sprinkler
- FP-D — Dry Fire Sprinkler
- FP-PA — Preaction Fire Sprinkler
- F/W — Fire & Water Service
- FP-O — Fire Sprinkler (Other)
- Upright Sprinkler
- Pendent Sprinkler
- Recessed Sprinkler
- Concealed Head
- Upright Sprinkler
- Sidewall Sprinkler
- Extended Coverage Sprinkler
- Standpipe Valve
- 48"x18" S/A — Obstruction From Ductwork 48" and Greater
- Check Valve
- Alarm Check Valve
- Tamper Detection Valve
- Dry Pipe Valve
- Indicating Butterfly Valve
- Post Indicator Valve
- Valve Normsing Stem
- OS&Y Valve
- Preaction Valve
- Deluge Valve
- Thrust Block
- Pipe Anchor
- Freestanding Siamese Fire Department Connection
- Siamese Fire Department Connection
- Single Fire Department Connection
- Riser Assembly
- Double Check (OS&Y)
- Double Check (Butterfly with Tamper)
- Reduced Pressure Zone
- X — Equipment Identity

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
EVA	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Fire Protection General Notes

A. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE DRY TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

B. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.

C. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.

D. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

E. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

F. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM

G. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

H. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

I. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

J. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

K. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

L. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

M. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

N. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

O. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.

Automatic Sprinkler Design Criteria

Symbol	Occupancy Hazard Classification	Design Density (GPM/SF)	Design Area
R	Residential (Dwelling) Occupancy	0.05	400 SF
LH	Light Hazard Occupancy	0.10	1500 SF
OH1	Ordinary Hazard, Group 1 Occupancy	0.15	1500 SF
OH2	Ordinary Hazard, Group 2 Occupancy	0.20	1500 SF
EH1	Extra Hazard, Group 1 Occupancy	0.30	2500 SF
EH2	Extra Hazard, Group 2 Occupancy	0.40	2500 SF
S	Special Hazard Occupancy		
	INCREASE DENSITY FOR DRY SYSTEMS PER NFPA 13.		

1 FP0.1 EXISTING ZONE 1 HYDRAULIC REQUIREMENT
NTS

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HAZWASTE PROCESSING AREA UPGRADES
350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION GMK, INC. No. C00287

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 23907 TODD E. SMITH

FIRE PROTECTION ABBREVIATIONS, NOTES & LEGENDS

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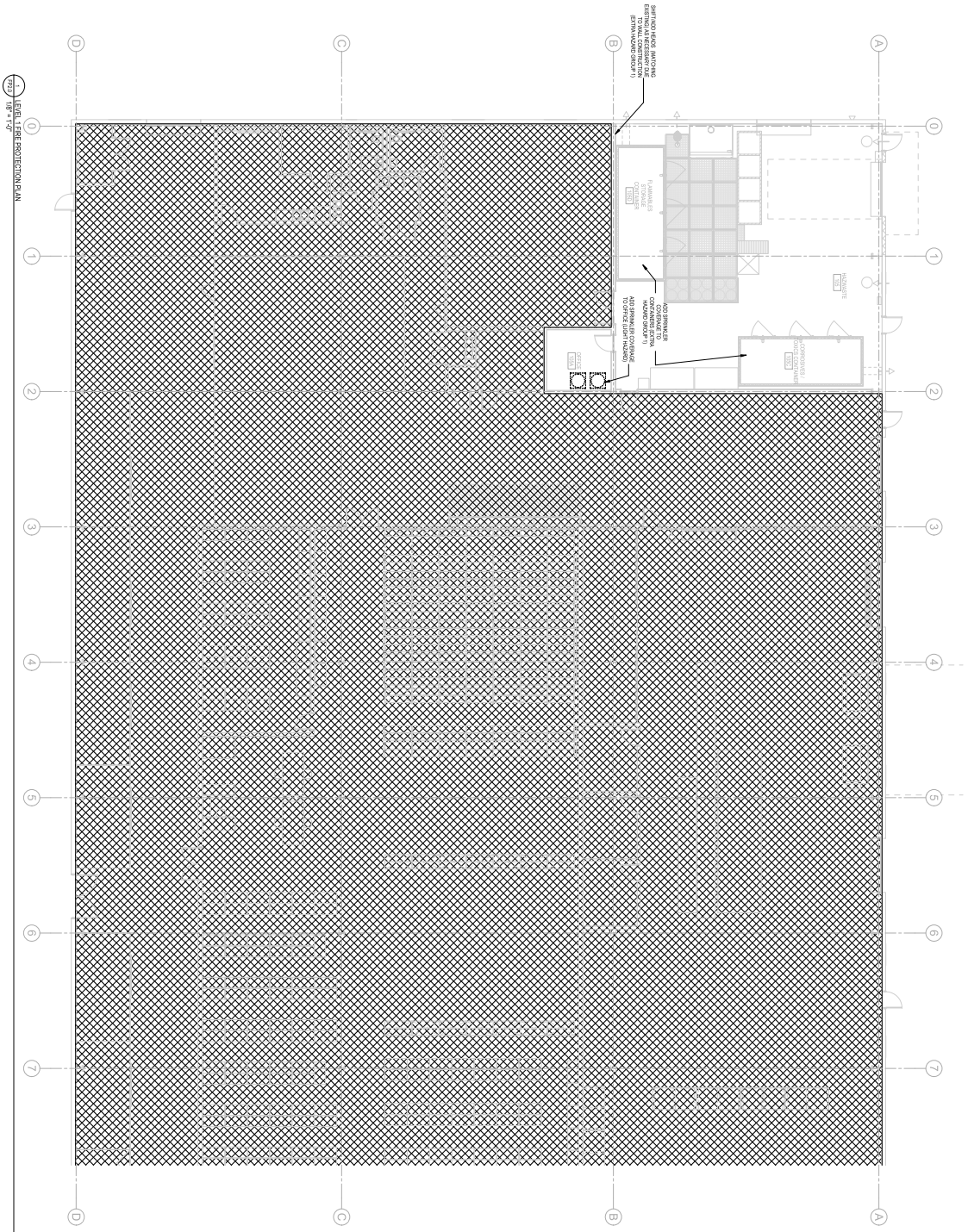

FIRE PROTECTION PLAN

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HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION

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GENERAL NOTES:

1. DO NOT SCALE DRAWINGS. LOCATE OUTLETS, EQUIPMENT AND OTHER ELECTRICAL DEVICES AS INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE #12 AWG. PROVIDE DEDICATED NEUTRAL FOR EACH MULTI-WIRE BRANCH CIRCUIT IN COMPLIANCE WITH NEC.
3. ALL FUSES SHALL BE DUAL-ELEMENT TYPE, "FUSETRON" BY BUSSMAN, "ECON" BY ECONOMY, OR FERRAZ SHAWMUT.
4. BRANCH CIRCUITS TO BE 2#12, #12GND, 3/4"C MINIMUM. 20A 120V CIRCUITS LONGER THAN 75' TO BE 2#10, #10GND, 3/4"C MINIMUM FOR VOLTAGE DROP. 20A, 120V CIRCUITS LONGER THAN 150' TO BE 2#6, #6GND, 3/4"C MINIMUM FOR VOLTAGE DROP. UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES OR ON DRAWINGS.
5. ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
6. ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND PER NEC TABLE 250-122.
7. PROVIDE PULL STRING IN ALL EMPTY RACEWAYS.
8. COORDINATE WITH OTHER TRADES TO CONCEAL ELECTRICAL WORK AND PROVIDE OUTLETS IN CORRECT LOCATIONS.
9. DO NOT FLUSH MOUNT JUNCTION BOXES BACK TO BACK, STAGGER TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
10. CONCEAL OUTLETS FOR ALL EQUIPMENT IN FINISHED AREAS. OBTAIN ROUGH-IN DIAGRAMS FOR ALL EQUIPMENT AND INSTALL ELECTRICAL WORK ACCORDING TO DIAGRAMS.
11. MOUNT BRACKET TYPE LIGHTING FIXTURES AT HEIGHTS SHOWN OR SCHEDULED ON DRAWINGS OR AS DIRECTED ON JOB BY ARCHITECT UNLESS NOTED OTHERWISE.
12. SEAL ALL PENETRATIONS TO RATED WALLS, CEILINGS AND FLOORS WITH UL LISTED FIRERPROOFING SYSTEM. THIS IS TO INCLUDE BUT IS IN NO WAY LIMITED TO CONDUCTOR, RACEWAY AND DEVICE PENETRATIONS. SUBMIT SYSTEM AND INSTALLATION DETAILS AS PART OF SHOP DRAWING SUBMITTAL.
13. WHERE NOT INDICATED OTHERWISE, EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC TABLE 250-122.
14. ALL METAL CONDUITS 1" AND LARGER SHALL HAVE A GROUNDING BUSHING BONDING CONDUIT TO ENCLOSURE.
15. REMOVE DRYWALL DUST AND MUD FROM THE INTERIOR OF BOXES BEFORE INSTALLING DEVICES.
16. AT SUBSTANTIAL COMPLETION CLEAN ALL LIGHT FIXTURES AND CLEAN ALL DEVICES IN THE CONSTRUCTION AREAS. REPLACE DAMAGED DEVICES AND DEVICE PLATES AS NEEDED.
17. VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS WITH MECHANICAL PLANS. IF MECHANICAL EQUIPMENT BEING PROVIDED DOES NOT MATCH DESIGN NOTIFY ENGINEER IMMEDIATELY.
18. CONCEAL ALL CONDUIT AND RACEWAY. IF CONDITIONS REQUIRE CONDUIT OR RACEWAY TO BE RUN EXPOSED COORDINATE ROUTING WITH ARCHITECT AND PAINT AS REQUIRED BY ARCHITECT.
19. ELECTRICAL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, REQUIREMENTS AND ORDINANCES.
20. ELECTRICAL WORK SHALL COMPLY WITH LATEST NECA 1 STANDARDS FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION.
21. ALL BACKBOXES SHALL BE MINIMUM 4" SQUARE.
22. ALL EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE WITH INSULATED THROAT.
23. PROVIDE PLASTIC ENGRAVED NAMEPLATES ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT INCLUDING DISCONNECT SWITCHES. DISCONNECT SWITCHES SHALL INDICATE NAME OF EQUIPMENT BEING FED AND SOURCE CIRCUIT. ALL NAMEPLATES ON NORMAL POWER EQUIPMENT SHALL BE BLACK WITH WHITE LETTERING.
24. PROVIDE TYPEWRITTEN LABELS INDICATING SOURCE PANEL NAME AND CIRCUIT NUMBER FOR ALL 120V AND GREATER DEVICES INCLUDING ALL LIGHT SWITCHES AND RECEPTACLES. LABELS SHALL BE THERMAL TRANSFER TYPE, 3/8" WITH 1/4" LETTERING. WHITE BACKGROUND FOR BLACK DEVICES, CLEAR BACKGROUND OTHERWISE. LOCATE LABEL ON BACK OF FACEPLATE IN FINISHED AREAS.
25. PROVIDE ALL EQUIPMENT WITH 75°C OR 90°C TERMINATIONS. ALL WIRE SIZING INDICATED ON PLANS IS BASED ON 75°C TERMINATIONS. WHERE EQUIPMENT IS PROVIDED BY OTHERS AND IS NOT SPECIFICALLY LISTED AND MARKED WITH 75°C TERMINATIONS INCREASE CONDUCTOR SIZE BASED ON NEC TABLE 310.15(B)(16) 60°C COLUMN FOR CIRCUITS 100 AMPERES AND LESS IN SIZE.

ABBREVIATIONS	
A	AMPERE.
AFF	ABOVE FINISHED FLOOR.
AFG	ABOVE FINISHED GRADE.
BKR	BREAKER.
C	CONDUIT.
CATV	CABLE TELEVISION CIRCUIT.
CKT	CIRCUIT.
EC	ELECTRICAL CONTRACTOR, DIVISION 26 (DIV 26).
EF	EXHAUST FAN.
EMT	ELECTRICAL METALLIC TUBING.
EX	DENOTES EXISTING EQUIPMENT
FCU	FAN COIL UNIT.
GC	GENERAL CONTRACTOR, DIVISION 00 THROUGH 14.
GF	GROUND FAULT CIRCUIT INTERRUPTER.
GRS	GALVANIZED RIGID STEEL CONDUIT.
HID	HIGH INTENSITY DISCHARGE.
IG	DEVICE SHALL HAVE ISOLATED GROUND.
IMC	INTERMEDIATE METALLIC CONDUIT.
JB or J-BOX	JUNCTION BOX.
KVA	KILOVOLT AMPERES.
KW	KILOWATT.
MAX	MAXIMUM.
MC	MECHANICAL CONTRACTOR, DIVISION 23 (DIV 23).
MDP	MAIN DISTRIBUTION PANEL.
MIN	MINIMUM.
MFR	MANUFACTURER.
NMC	NONMETALLIC-SHEATHED CABLE.
V	VOLT.
NEC	NATIONAL ELECTRICAL CODE. (NFPA 70).
SWBD	SWITCHBOARD.
TYP	TYPICAL.
UNO	UNLESS NOTED OTHERWISE.
WC	WATER COOLER.
XFMR	TRANSFORMER.

ELECTRICAL SYMBOL SCHEDULE - GENERAL

GENERAL	
PP1-2,4	BRANCH CIRCUIT RACEWAY. RUN CONCEALED IN CEILING OR WALLS. ARROWHEAD DENOTES HOMERUN TO PANEL. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INSTALL GROUND WIRE IN ALL RACEWAYS. #12 AWG MINIMUM AND AS PER CODE.
PP1-2,4 / TCB*	BRANCH CIRCUIT RACEWAY. RUN CONCEALED IN CEILING OR WALLS. ARROWHEAD DENOTES HOMERUN TO PANEL. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INSTALL GROUND WIRE IN ALL RACEWAYS. #12 AWG MINIMUM AND AS PER CODE. PLYWOOD TELECOM BACKBOARD. SEE DETAIL.
PP1-	ELECTRICAL DISTRIBUTION OR BRANCH CIRCUIT PANELBOARD. TEXT DENOTES NAME. REFER TO DRAWINGS FOR LOCATION. SEE POWER RISER DIAGRAM AND PANEL SCHEDULES. SURFACE OR FLUSH MOUNTED AS INDICATED ON PANEL SCHEDULE.
CP	SIGNAL SYSTEM OR OTHER ELECTRICAL CONTROL OR COMMUNICATIONS CABINET. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.
J	JUNCTION BOX, FLUSH WALL MOUNTED IN FINISHED WALLS, SURFACE MOUNTED WHERE INDICATED ON DRAWINGS. MINIMUM 4" SQUARE WITH APPROPRIATE REDUCING RING FOR DEVICE BEING INSTALLED. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL WHERE MOUNTING HEIGHT IS NOT INDICATED ON DRAWINGS. SIZE PER NEC.
J	JUNCTION BOX, CEILING MOUNTED. SIZE PER NEC.

ELECTRICAL SYMBOL SCHEDULE - FIRE ALARM

FIRE ALARM	
	FIRE ALARM PULL STATION.
15	WALL MOUNTED FIRE ALARM HORN/STROBE. NUMBER INDICATES CANDELA RATING.
15	WALL MOUNTED FIRE ALARM STROBE ONLY. NUMBER INDICATES CANDELA RATING.
15 / 15	CEILING MOUNTED FIRE ALARM HORN/STROBE. NUMBER INDICATES CANDELA RATING.
15	CEILING MOUNTED FIRE ALARM STROBE ONLY. NUMBER INDICATES CANDELA RATING.
SD	CEILING MOUNTED SMOKE DETECTOR.
HD	CEILING MOUNTED HEAT DETECTOR.
CD	CEILING MOUNTED CARBON MONOXIDE DETECTOR.
DD	DUCT SMOKE DETECTOR. FINAL LOCATIONS AND QUANTITIES BY MECH. ENGINEER.
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL.
FACP	MAIN FIRE ALARM CONTROL PANEL. SEE RISER DIAGRAM.

ELECTRICAL SYMBOL SCHEDULE - POWER

POWER	
	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R. WALL MOUNTED. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R. WALL MOUNTED AT 42" AFF OR 6" ABOVE COUNTERTOP BACKSPLASH UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS. RECEPTACLES NOTED "TV" SHALL BE MOUNTED AT 6" AFF. UNLESS OTHERWISE SPECIFIED.
	120V, 20A SIMPLEX RECEPTACLE, NEMA 5-20R TYPE OR AS INDICATED ON DRAWING. WALL MOUNTED. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A QUADRUPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX. NEMA 5-20R. WALL MOUNTED. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A QUADRUPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX. NEMA 5-20R. WALL MOUNTED AT 42" AFF OR 6" ABOVE COUNTERTOP BACKSPLASH UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A QUADRUPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX. NEMA 5-20R WALL MOUNTED AT 18" AFF. WITH SINGLE DUPLEX RECEPTACLE WALL MOUNTED ABOVE AT 6' AFF. UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	ELECTRIC MOTOR OR EXHAUST FAN. PROVIDE LOCAL MEANS OF DISCONNECT PER NEC RATED TO SUIT LOAD WHERE NOT FACTORY EQUIPPED. CONNECT AS REQUIRED.
	HEAVY DUTY DISCONNECT SWITCH. SEE DISCONNECT SWITCH SCHEDULE.
$M	HEAVY DUTY DOUBLE POLE, SINGLE THROW 30A, 1HP RATED TOGGLE SWITCH. WHERE INDICATED SERVING MECHANICAL EQUIPMENT SWITCH IS TO BE INSTALLED ADJACENT TO EQUIPMENT TO SERVE AS LOCAL DISCONNECTING MEANS. FIELD COORDINATE.
	MOTOR STARTER. SIZE TO SUIT LOAD SUPPLIED.
	MULTI-SERVICE POWER / COMMUNICATIONS FLOOR BOX. "POKE-THRU" DEVICE WHERE INSTALLED ON UPPER FLOORS. PROVIDE QUAD OUTLET WITH 120V. CIRCUIT AS SPECIFIED. PROVIDE 2 - 1-1/4"C. FOR COMMUNICATIONS SERVICES. ROUTE BELOW GRADE TO NEAREST VERTICAL WALL. RISE TO CEILING SPACE ABOVE AND ROUTE OVERHEAD TO EITHER CABLE TRAY OR COMMUNICATIONS ROOM.
CM	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R. CEILING MOUNTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
G	GROUNDING TERMINAL FOR COMMUNICATIONS PLYWOOD. CONNECT TO SERVICE ENTRANCE GROUNDING OR AS OTHERWISE SPECIFIED ON DRAWINGS.

WIRING DEVICE TYPICAL NOTATIONS	
GFI	GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE.

ELECTRICAL SYMBOL SCHEDULE - LIGHTING SYSTEMS AND ACCESSORIES

LIGHT FIXTURES	
	CEILING MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. SEE RECESSED LAY-IN FIXTURE DETAIL FOR LAY-IN FIXTURES MOUNTED IN CEILING GRID.
	WALL MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE. MOUNTING HEIGHTS AS INDICATED ON DRAWINGS OR IN LIGHT FIXTURE SCHEDULE OR AS DIRECTED BY OWNER.
	CEILING MOUNTED LIGHT FIXTURE. CONNECT TO THE EMERGENCY GENERATOR AS SPECIFIED VIA ELC DEVICE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. SEE RECESSED LAY-IN FIXTURE DETAIL FOR LAY-IN FIXTURES MOUNTED IN CEILING GRID.
	CEILING MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. PROVIDE MOUNTING HARDWARE APPROPRIATE FOR TYPE OF CEILING WHERE FIXTURE IS INSTALLED. SEE ARCHITECTURAL REFLECTED CEILING PLAN.
	PENDANT MOUNTED OR SURFACE CEILING MOUNTED LIGHT FIXTURE.
	SURFACE CEILING MOUNTED LIGHT FIXTURE.
	RECESSED CEILING MOUNTED LIGHT FIXTURE.
	LED EXIT SIGN WITH INTEGRAL EGRESS HEADS. WALL OR CEILING MOUNTED. STEM DENOTES WALL MOUNTED. SINGLE FACE FOR WALL MOUNTED, FACES AS INDICATED BY DARKENED AREAS FOR CEILING MOUNTED. ARROWS DENOTE CHEVRONS INDICATING DIRECTION OF EXIT AS INDICATED ON DRAWINGS. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE.
	REMOTE LED EMERGENCY LIGHTS. CIRCUIT TO ADJACENT LED EXIT SIGN FOR POWER. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING INSTRUCTIONS.
	WALL OR CEILING MOUNTED FLOOD LIGHT OR FACADE LIGHT. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE.
	LED EMERGENCY LIGHTING UNIT. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE. MOUNT AT 7'6"AFF UNLESS OTHERWISE NOTED.

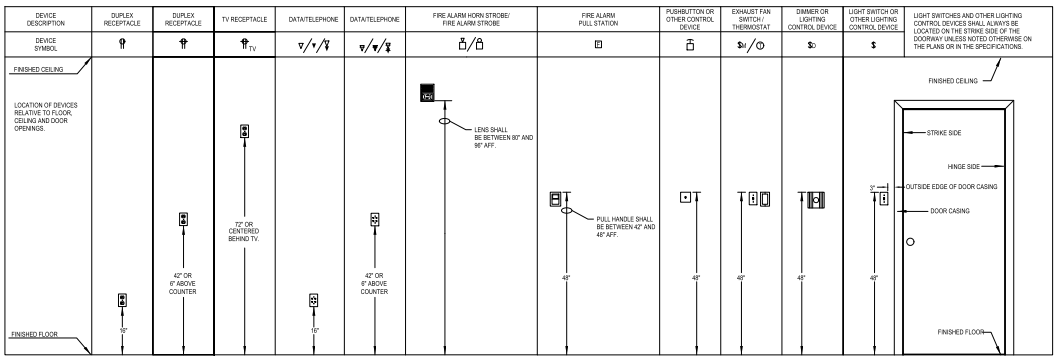
LIGHT FIXTURE TYPICAL NOTATIONS	
A	DENOTES LIGHT FIXTURE OR LUMINAIRE TYPE. SEE LIGHT FIXTURE SCHEDULE (FIXTURE TYPE A IN THIS EXAMPLE).
P-11	PANELBOARD AND CIRCUIT NUMBER (PANELBOARD P, CIRCUIT 11 IN THIS EXAMPLE). SEE PANEL SCHEDULES.
P-11a	DENOTES LIGHT FIXTURE OR LUMINAIRE CONTROLLED BY THE CORRESPONDING LIGHT SWITCH, CONTROL DEVICE, OR SWITCH LEG (LIGHT SWITCH, CONTROL DEVICE OR SWITCH LEG a IN THIS EXAMPLE). THIS NOTATION TYPICALLY FOLLOWS THE CIRCUIT NUMBER NOTATION (PANEL P, CIRCUIT 11; LIGHT SWITCH, CONTROL DEVICE OR SWITCH LEG a IN THIS EXAMPLE, BUT MAY NOT FOLLOW A CIRCUIT NUMBER WHEN PROVIDING ADDITIONAL INFORMATION FOR AN EXISTING LIGHT FIXTURE.
NL	DENOTES LIGHT FIXTURE THAT SERVES AS A NIGHT LIGHT AND IS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT TO RUN CONSTANTLY.

LIGHTING CONTROL DEVICES	
$	SPECIFICATION GRADE WALL SWITCH, SINGLE POLE, 20A, 120-277V, UNLESS NOTED OTHERWISE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS. WHERE SUBSCRIPT DESIGNATIONS ARE INDICATED ADJACENT TO DEVICE, SEE SWITCHING DEVICE SUBSCRIPT DESIGNATIONS BELOW FOR ADDITIONAL REQUIREMENTS.
	CEILING MOUNTED LOW VOLTAGE 360° COVERAGE OCCUPANCY SENSOR. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED ON DRAWINGS. "P" DENOTES PASSIVE INFRARED TYPE, "U" DENOTES ULTRASONIC TYPE. PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PACKS SERVING COMMON AREA OR LIGHTING ZONE.

SWITCHING DEVICE SUBSCRIPT DESIGNATIONS AND NOTATIONS	
3	3-WAY SWITCH.
D	120V LED DIMMER SWITCH, 0-10V, SUITABLE FOR LOADS CONTROLLED, SUPPLIED BY LUTRON OR PRIOR APPROVED MANUFACTURER. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS.
OC	120-277V OCCUPANCY SENSOR WALL SWITCH. PASSIVE INFRARED TYPE UNLESS OTHERWISE NOTED ON DRAWINGS. "O" DENOTES DUAL TECHNOLOGY TYPE, "U" DENOTES ULTRASONIC TYPE.
Da	DENOTES LIGHT SWITCH OR CONTROL DEVICE THAT CONTROLS THE CORRESPONDING SWITCH LEG AND ALL LIGHT FIXTURES OR LUMINAIRES ON THAT SWITCH LEG. (SWITCH LEG a IN THIS EXAMPLE). THIS NOTATION TYPICALLY FOLLOWS ADDITIONAL SUBSCRIPT DESIGNATIONS (DIMMER SWITCH CONTROLLING LEG a IN THIS EXAMPLE.)

ELECTRICAL SYMBOL SCHEDULE - COMMUNICATIONS

COMMUNICATIONS	
	WALL MOUNTED DATA OUTLET LOCATION. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. PROVIDE 3/4"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING OR TO NEAREST CABLE TRAY OR J-HOOK.
	SAME AS ABOVE EXCEPT MOUNTED CENTERED BEHIND TV.
CR	WALL MOUNTED CARD READER. PROVIDE 1"C. WITH PULL WIRE TO COMMUNICATIONS PLYWOOD OR CABLE TRAY. FINAL HEIGHT ABOVE FINISHED FLOOR AS DIRECTED BY THE OWNER.
C	CEILING MOUNTED CAMERA.
S	WALL MOUNTED SPEAKER.
M	WALL MOUNTED MICROPHONE OR MICROPHONE OUTLET.



****ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.****

DEVICE MOUNTING HEIGHTS
NO SCALE

DISCONNECT SWITCH SCHEDULE	
SWITCH	DESCRIPTION
S-1	30A/2P
S-2	60A/2P
S-3	100A/2P
S-4	200A/2P
S-5	400A/2P
S-6	30A/3P
S-7	60A/3P
S-8	100A/3P
S-9	200A/3P
S-10	400A/3P
S-11	30A/4WSN
S-12	60A/4WSN
S-13	100A/4WSN
S-14	200A/4WSN
S-15	400A/4WSN

SWITCH NOTES:
1. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
2. 240V OR 600V TO SUIT CIRCUIT VOLTAGE.
3. ALL DISCONNECTS FUSIBLE UNLESS OTHERWISE NOTED. PROVIDE FUSES TO SUIT LOAD.
4. ENCLOSURES NEMA 3R OUTDOORS AND IN WET LOCATIONS, NEMA 1 ELSEWHERE UNLESS OTHERWISE NOTED.
5. ALL OUTDOOR DISCONNECTS SERVING GROUND MOUNTED HVAC UNITS SHALL NOT BE MOUNTED HIGHER THAN 36" ABOVE FINISHED GRADE.

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350 WAYNE - HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

GMK, INC. No. C00287 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

No. 31520 — REGISTERED PROFESSIONAL ENGINEER — 06/03/2026

ELECTRICAL SYMBOLS AND NOTES

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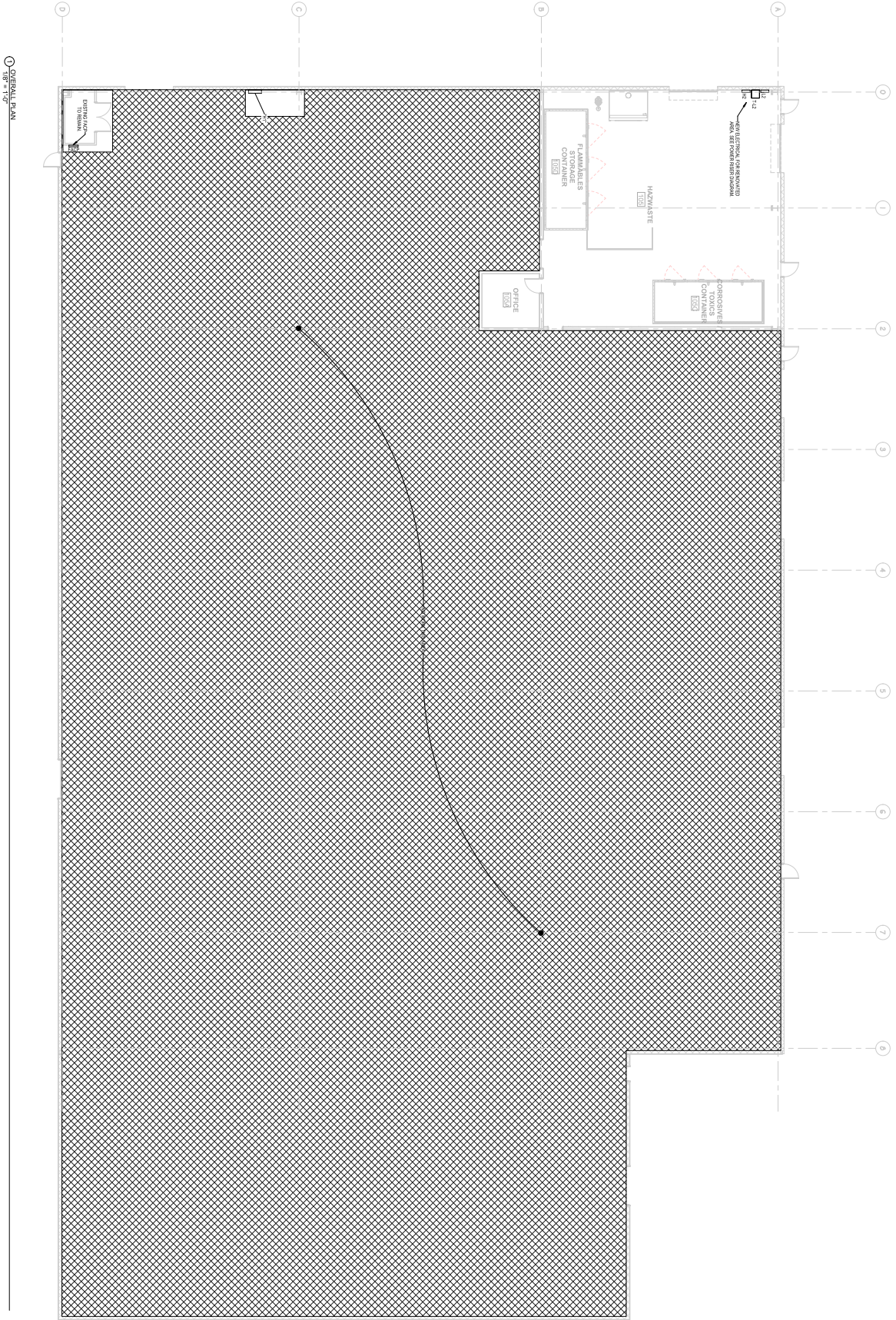

NOTE: OVERALL PLAN SHOWN FOR REFERENCE ONLY.

ELECTRICAL OVERALL PLAN

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350 WAYNE - HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
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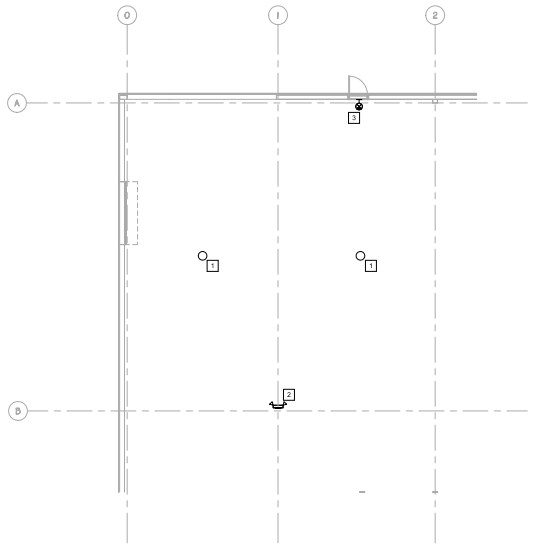
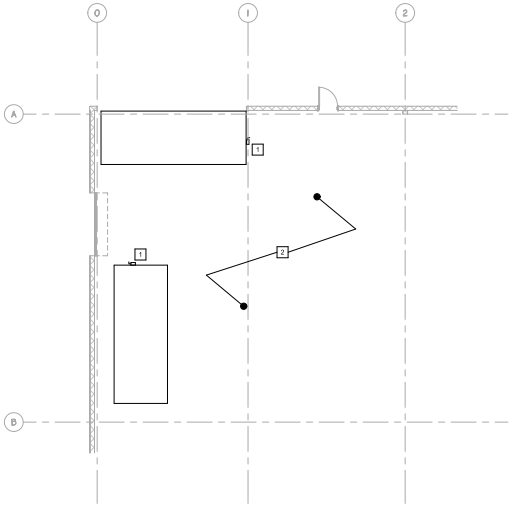
LIGHTING DEMOLITION KEYED NOTES	
Key #	Description
1	EXISTING HIGH BAY LIGHTING FIXTURES TO BE REMOVED COMPLETE. DEMOLISH ALL WIRING, RACEWAY, AND SWITCHING NO LONGER IN-USE TO NEAREST J-BOX REMAINING IN-USE.
2	EXISTING EMERGENCY WALLPACK TO BE REMOVED COMPLETE ALONG WITH CIRCUITING. DEMOLISH ALL WIRING AND RACEWAY NO LONGER IN-USE TO NEAREST J-BOX REMAINING IN-USE.
3	EXISTING EXIT SIGN TO BE REMOVED COMPLETE. DEMOLISH ALL WIRING AND RACEWAY NO LONGER IN-USE TO NEAREST J-BOX REMAINING IN-USE.



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

POWER DEMOLITION KEYED NOTES	
Key #	Description
1	EXISTING DISCONNECT TO HAZARDOUS LIQUID CONTAINMENT. REMOVE COMPLETE AND RELOCATE EXISTING CIRCUIT TO NEW LOCATION SHOWN ON RENOVATION PLAN.
2	ALL EXISTING DEVICES IN SPACE SHALL REMAIN AS-IS AND BE PROTECTED DURING DEMOLITION UNLES OTHERWISE NOTED.



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

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CHECKED BY: RMI

350 WAYNE - HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

SOUTH CAROLINA GMK, INC. No. C00287 CERTIFICATE OF AUTHORIZATION

No. 31520 06/03/2026

ELECTRICAL DEMOLITION PLAN

E1.1

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Existing Panel: "H1"

Location: ELECT. 115D
Supply From: --
Mounting: Surface
Enclosure: Type 1

Volts: 277/480 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EX
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	Trip	Pole	A		B		C		Pole	Trip	Circuit Description	CKT
1	EXISTING XFMR T2 (EX. PANELS P1 & P2)	125 A	3	0.0 kVA	0.0 kVA					1	20 A	SPARE	2
3	--	--	--			0.0 kVA	0.0 kVA			1	20 A	SPARE	4
5	--	--	--					0.0 kVA	0.0 kVA	1	20 A	SPARE	6
7	SPARE	15 A	3	0.0 kVA	0.0 kVA					1	20 A	SPARE	8
9	--	--	--			0.0 kVA	0.0 kVA			1	20 A	SPARE	10
11	--	--	--					0.0 kVA	0.0 kVA	1	20 A	SPARE	12
13	SPARE	15 A	3	0.0 kVA	0.0 kVA					1	20 A	SPARE	14
15	--	--	--			0.0 kVA	0.0 kVA			1	20 A	SPARE	16
17	--	--	--					0.0 kVA	0.0 kVA	1	20 A	SPARE	18
19	SPARE	20 A	1	0.0 kVA	--					1	--	Space	20
21	SPARE	20 A	1			0.0 kVA	--			1	--	Space	22
23	SPARE	20 A	1					0.0 kVA	--	1	--	Space	24
25	EXISTING BRKR FOR NEW PANEL "H2"	225 A	3	22.7 kVA	0.0 kVA					3	300 A	EXISTING PANEL "H3"	26
27	--	--	--			20.2 kVA	0.0 kVA			--	--	--	28
29	--	--	--					22.4 kVA	0.0 kVA	--	--	--	30
		TOTAL LOAD:		22.7 kVA		20.2 kVA		22.4 kVA					
		TOTAL AMPS:		83 A		73 A		82 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals (NEW LOAD)
Lighting	744 VA	125.00%	930 VA	
Mechanical Equipment	50900 VA	100.00%	50900 VA	Total Conn. Load (NEW): 65.3 kVA
Plumbing Equipment	10500 VA	100.00%	10500 VA	Total Est. Demand (NEW): 65.5 kVA
Power	500 VA	100.00%	500 VA	Total Conn. (NEW): 79 A
Receptacle	2720 VA	100.00%	2720 VA	Total Est. Demand (NEW): 79 A

Notes:

Panel: H2

Location: HAZWASTE 105
Supply From: "H1"
Mounting: Surface
Enclosure: Type 1

Volts: 277/480 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22K
Mains Type: MLO
Mains Rating: 250 A
MCB Rating: 250 A

Notes:

CKT	Circuit Description	Trip	Pole	Wire Size	A		B		C		Wire Size	Pole	Trip	Circuit Description	CKT
1	T-L2	70 A	3	SEE POWER RISER	6.0 kVA	0.7 kVA									
3	--	--	--	--			4.1 kVA	3.3 kVA			2#12,#12GND,3/4"C.	3	20 A	LTG - HAZWASTE	2
5	--	--	--	--					6.3 kVA	3.3 kVA	--	--	--	--	4
7	UH-2	20 A	3	2#12,#12GND,3/4"C.	3.3 kVA	3.3 kVA					--	--	--	--	6
9	--	--	--	--			3.3 kVA	3.3 kVA			2#12,#12GND,3/4"C.	3	20 A	UH-4	8
11	--	--	--	--					3.3 kVA	3.3 kVA	--	--	--	--	10
13	UH-3	20 A	3	2#12,#12GND,3/4"C.	3.3 kVA	3.3 kVA						--	--	--	12
15	--	--	--	--			3.3 kVA	0.6 kVA			2#12,#12GND,3/4"C.	3	15 A	EF-2	14
17	--	--	--	--					3.3 kVA	0.6 kVA	--	--	--	--	16
19	EF-1	15 A	3	3#12,#12GND,3/4"C.	2.2 kVA	0.6 kVA					--	--	--	--	18
21	--	--	--	--			2.2 kVA	0.0 kVA				1	20 A	Spare	20
23	--	--	--	--					2.2 kVA	0.0 kVA		1	20 A	Spare	22
25	Spare	20 A	1		0.0 kVA	0.0 kVA						1	20 A	Spare	24
27	Spare	20 A	1				0.0 kVA	0.0 kVA				1	20 A	Spare	26
29	Spare	20 A	1						0.0 kVA	0.0 kVA		1	20 A	Spare	28
31	Spare	20 A	1		0.0 kVA	0.0 kVA						1	20 A	Spare	30
33	Spare	20 A	1				0.0 kVA	0.0 kVA				1	20 A	Spare	32
35	Spare	20 A	1						0.0 kVA	0.0 kVA		1	20 A	Spare	34
37	Spare	20 A	1		0.0 kVA	0.0 kVA						1	20 A	Spare	36
39	Spare	20 A	1				0.0 kVA	0.0 kVA				1	20 A	Spare	38
41	Spare	20 A	1						0.0 kVA	0.0 kVA		1	20 A	Spare	40
		TOTAL LOAD:			22.7 kVA		20.2 kVA		22.4 kVA						42
		TOTAL AMPS:			83 A		73 A		82 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	2720 VA	100.00%	2720 VA	
Power	500 VA	100.00%	500 VA	Total Conn. Load: 65.3 kVA
Lighting	744 VA	125.00%	930 VA	Total Est. Demand: 65.5 kVA
Mechanical Equipment	50900 VA	100.00%	50900 VA	Total Conn.: 79 A
Plumbing Equipment	10500 VA	100.00%	10500 VA	Total Est. Demand: 79 A

Notes:

Panel: L2

Location: HAZWASTE 105
Supply From: T-L2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

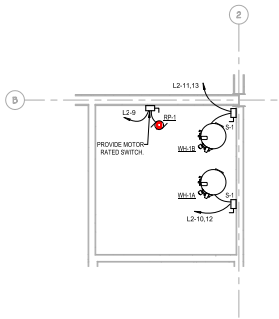
Notes:

CKT	Circuit Description	Trip	Pole	Wire Size	A		B		C		Wire Size	Pole	Trip	Circuit Description	CKT
1	LTG - OFFICE	20 A	1	2#12,#12GND,3/4"C.	0.1 kVA	0.8 kVA					2#12,#12GND,3/4"C.	1	20 A	RCPT - HAZWASTE	2
3	RCPT - OFFICE	20 A	1	2#12,#12GND,3/4"C.			0.7 kVA	0.4 kVA			2#12,#12GND,3/4"C.	1	20 A	RCPT - HAZWASTE	4
5	RCPT - HAZWASTE	20 A	1	2#12,#12GND,3/4"C.					0.8 kVA	0.5 kVA	2#12,#12GND,3/4"C.	1	20 A	LTG - FUME HOOD	6
7	RCPT - PTAC-1	20 A	1	2#12,#12GND,3/4"C.	0.6 kVA	2.0 kVA					2#10,#10GND,3/4"C.	1	30 A	ROLL UP DOOR	8
9	RP-1	20 A	1	2#12,#12GND,3/4"C.			0.5 kVA	2.5 kVA			2#10,#10GND,3/4"C.	2	30 A	WH-1A	10
11	WH-1B	30 A	2	2#10,#10GND,3/4"C.					2.5 kVA	2.5 kVA	--	--	--	--	12
13	--	--	--	--	2.5 kVA	0.0 kVA						1	20 A	Spare	14
15	Spare	20 A	1				0.0 kVA	0.0 kVA				1	20 A	Spare	16
17	Spare	20 A	1						0.0 kVA	0.0 kVA		1	20 A	Spare	18
19	Spare	20 A	1		0.0 kVA	0.0 kVA						1	20 A	Spare	20
21	Spare	20 A	1				0.0 kVA	0.0 kVA				1	20 A	Spare	22
23	Spare	20 A	1						0.0 kVA	0.0 kVA		1	20 A	Spare	24
25	Spare	20 A	1		0.0 kVA	0.0 kVA						1	20 A	Spare	26
27	Spare	20 A	1				0.0 kVA	0.0 kVA				1	20 A	Spare	28
29	Spare	20 A	1						0.0 kVA	0.0 kVA		1	20 A	Spare	30
		TOTAL LOAD:			6.0 kVA		4.1 kVA		6.3 kVA						
		TOTAL AMPS:			52 A		34 A		55 A						

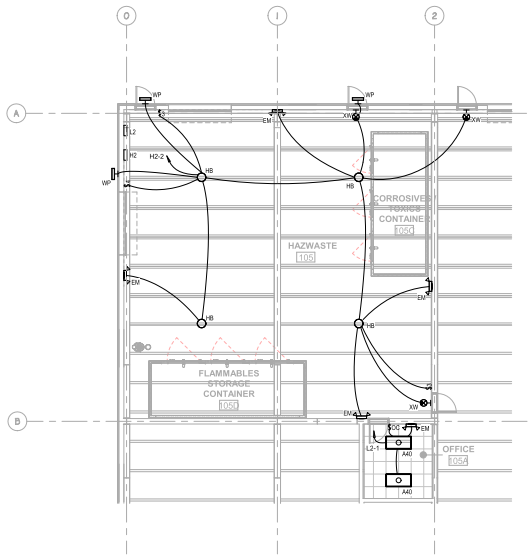
Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	2720 VA	100.00%	2720 VA	
Power	500 VA	100.00%	500 VA	Total Conn. Load: 16.4 kVA
Lighting	70 VA	125.00%	88 VA	Total Est. Demand: 16.4 kVA
Mechanical Equipment	2600 VA	100.00%	2600 VA	Total Conn.: 45 A
Plumbing Equipment	10500 VA	100.00%	10500 VA	Total Est. Demand: 46 A

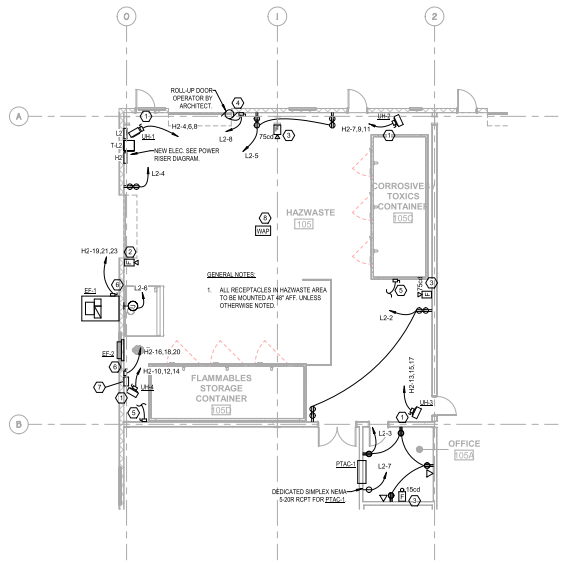
Notes:



3 ABOVE OFFICE ENLARGED PLUMBING EQUIPMENT PLAN - RENOVATION
1/4" = 1'-0"



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



1 POWER PLAN - RENOVATION
1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Input Wattage	Comments
A40	2x4 RECESSED LED FIXTURE WITH 0-10V DIMMING CAPABILITY. PROVIDE THE FOLLOWING: 4000 LUMEN OUTPUT, 124LPW, 80CRI, 4000K.	LITHONIA	CPX-2x4-ALO8-80CRI-40K-SWL-MIN1-MVOLT-E 10W OR EQUAL	35W	
EM	EMERGENCY WALL PACK LIGHT WITH INTEGRAL BATTERY BACKUP. PROVIDE MINIMUM 1100 LUMENS, 90 MIN. RUNTIME.	LITHONIA	ELM6L UVOLT LTP SRDT EHO	3W	
HB	CIRCULAR LENS LED HIGH-BAY FIXTURE WITH INTEGRAL OCCUPANCY SENSOR. PROVIDE THE FOLLOWING: 12,480 LUMENS, 156LPW, 4000K, 80 CRI.	ALS	HBA2 160 SC C BK UD SENSOR-ANT-6-4T OR EQUAL.	80W	MOUNT FIXTURES TO EXISTING CEILING STRUCTURE. MOUNTING HEIGHT TO MATCH THAT OF EXISTING FIXTURES.
WP	SMALL SHALLOW-BACK WALL PACK, WET LOCATION LISTED, 2000 LUMEN OUTPUT, EMERGENCY BATTERY BACKUP.	LITHONIA	WDGE1 LED P2 40K 80CRI VF MVOLT SRM E4WH PE DBLXD OR EQUAL	15W	MOUNT FIXTURES AT 8' A.F.G.
XW	SINGLE FACED, WALL MOUNTED, EDGE-LIT EXIT SIGN	LIGHTALARMS	QLXN500RN OR APPROVED EQUAL	2W	

POWER RENOVATION KEYED NOTES

Key #	Description
1	UNIT HEATER BY MECH. WITH INTEGRAL DISCONNECT.
2	EXISTING FA DEVICE TO REMAIN. SHOWN FOR REFERENCE ONLY.
3	NEW FA DEVICE TO MATCH EXISTING TYPE. PROVIDE 3/4"C. WITH FIRE ALARM CABLING. CONNECT TO EXISTING FA IN RENOVATED AREA.
4	DISC. FOR ROLL-UP DOOR BY ARCH. PROVIDE POWER CONNECTION AND LOCAL DISCONNECTING MEANS FOR MOTOR-OPERATED ROLL-UP DOOR. COORDINATE VOLTAGE, PHASE, HORSEPOWER, OVERCURRENT PROTECTION, AND CONTROL WIRING REQUIREMENTS WITH DOOR MANUFACTURER'S APPROVED SUBMITTAL PRIOR TO ANY ROUGH-IN.
5	PROVIDE NEW DISC. FOR EXISTING HAZARDOUS LIQUID CONTAINMENT TO MATCH EXISTING. EXTEND EXISTING CIRCUIT AS REQUIRED TO NEW LOCATION. CONNECT COMPLETE.
6	EXHAUST FAN BY MECH. WITH INTEGRAL DISCONNECT.
7	APPROXIMATE LOCATION OF REMOTE MOUNTED VFD BY MECH. ROUTE CIRCUIT SHOWN FROM EXHAUST FAN (EF-1) THRU VFD TO PANEL INDICATED.
8	NEW WIRELESS ACCESS POINT LOCATION. PROVIDE 1"C. TO EXISTING COMMUNICATIONS PLYWOOD. LEAVE PULL WIRE.

FIRE ALARM SYSTEM PARTIAL RENOVATION AND EXTENSION GENERAL NOTES:

1. INCLUDE IN BID ALL LABOR, MATERIALS, PROGRAMMING, ETC AS REQUIRED FOR COMPLETE SYSTEM IN ACCORDANCE WITH THE INTENT OF THESE DRAWINGS.
2. ALL NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM AND NOTIFICATION APPLIANCES SHALL BE CAPABLE OF STROBE SYNCHRONIZATION WITH THE EXISTING DEVICES TO REMAIN IN ALL AREAS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO ENGINEER AND TO AHJ ALL REQUIRED CALCULATIONS AND DETAILS OF RENOVATED SYSTEM. THIS INCLUDES BUT IS IN NO WAY LIMITED TO, POINT TO POINT WIRING DIAGRAMS, REVISED VOLTAGE DROP CALCULATIONS, REVISED BATTERY CALCULATIONS, AND ALL ADDITIONAL DOCUMENTATION REQUIRED FOR APPROVAL BY THE AHJ FOR THE COMPLETE SYSTEM AFTER RENOVATION.
4. PROVIDE ADDITIONAL POWER SUPPLIES, NAC EXTENDER PANELS, OR SIMILAR AUXILIARY EQUIPMENT AS REQUIRED FOR ADDITION OF NEW DEVICES AND RELOCATION OF EXISTING DEVICES AT LOCATION REFERENCED ON DRAWINGS.
5. ONLY DEVICES AFFECTED IN AREAS OF RENOVATION ARE INDICATED ON DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND CIRCUIT OF ALL DEVICES IN ADJACENT AREAS TO MAINTAIN OPERATION OF SYSTEM DURING AND AFTER RENOVATION.
6. APPROVAL AND PERMIT SHALL BE OBTAINED BY THE AHJ PRIOR TO COMMENCING ANY WORK.
7. PROVIDE RECORD OF COMPLETION TO ENGINEER AND AHJ PER NFPA 72

GMC
GMK ASSOCIATES, INC.
915 Lady Street, Suite C
Columbia, SC 29201
T 803.766.1235
GMCNETWORK.COM

ISSUE	DATE
CD SET	06/08/26

DRAWN BY: PAC
CHECKED BY: RMI

350 WAYNE - HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION
GMC PROJECT #: ACOL260001
U OF SC PROJECT #: H27-Z632 / 50003721

GMK, INC. No. C00287 — CERTIFICATE OF AUTHORIZATION

No. 31520 — 06/03/2026

ELECTRICAL POWER PLAN

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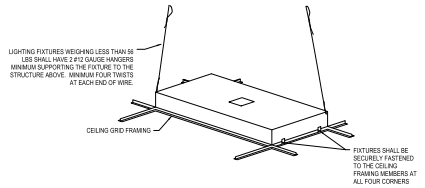
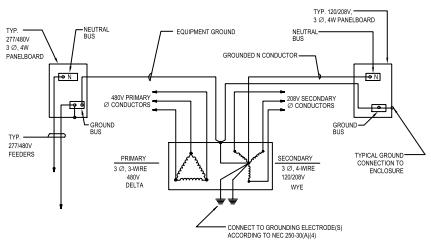
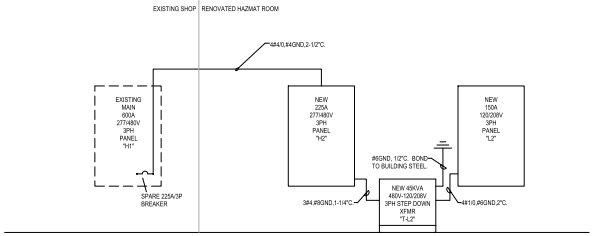


1 RECESSED LAY IN FIXTURE DETAIL

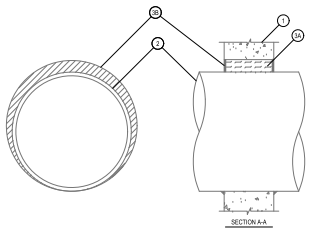


2 TRANSFORMER WIRING DETAIL



3 POWER RISER DIAGRAM

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 and 1/4 Hr (See Item 2)	FT Rating — 0 and 1/4 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 and 1/4 Hr (See Item 2)
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft

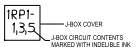


4 FIRESTOP WALL PENETRATION DETAIL

1. Wall Assembly — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Diam of circular through opening to be min 3/8 in. (5 mm) to max 2-3/4 in. (70 mm) larger than diam of through penetrants (Item 2).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — 11-1/4 in. (430 mm) diam (or smaller) by 0.125 (or heavier) steel pipe. The annular space shall be min 0 to max 2-3/4 in. (70 mm). The T, FT, FTH Rating is 1/4 hr when steel pipe is used.
   B. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing. The annular space shall be min 0 to max 3 in. (76 mm). The T, FT, FTH rating is 0 hr when copper tubing is used.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4-1/2 in. (114 mm) thickness of flexible urethane sheet or mineral wool insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe and wall, a min 1/2 in. (13 mm) diam bead of sealant shall be applied to the wall/pipe interface on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
   C. Steel Wire Mesh (Optional) (Not Shown) — No. 8 steel wire mesh having a min 1 in. (25 mm) lap along the longitudinal seam. Length of steel wire mesh to be 5 in. (127 mm), centered and formed to fit periphery of through opening.

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

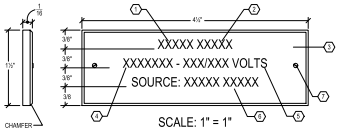
HILTI: W-J-1021



ALL EXPOSED J-BOXES, NOT INCLUDING ELECTRICAL OR MECHANICAL ROOMS, SHALL BE MARKED ON THE INSIDE COVER. ALL OTHERS SHALL BE MARKED ON THE OUTSIDE.

ALL J-BOXES CONTAINING FIRE ALARM CIRCUITS SHALL BE PAINTED RED.

5 J-BOX COVER DETAIL



ALL TEXT SHALL BE 3/16" IN HEIGHT

LABELS SHALL BE APPLIED TO ALL PANELS, DISCONNECTS SWBD'S, TRANSFORMERS AND BUS DUCTS.

LABEL NOTES:	
1. TYPE OF EQUIPMENT WHERE X'S ARE INDICATED. POSSIBLE CHOICES ARE: "PANEL" "DISC" "XFMR" "BUS DUCT" "SWBD"	5. INSERT VOLTAGE WHERE X'S ARE INDICATED. POSSIBLE CHOICES ARE: "277/480V" "480" "120/208Y" "208" FOR TRANSFORMER LABELS - THIS SPACE SHALL INDICATE THE KVA RATING AND SHALL BE SECURED TO THE TRANSFORMER WITH (4) FOUR STANDOFF STEMS (1/8") TO PREVENT DEFORMATION OR SHALL BE HEAT TOLERATE TO 135°
2. EQUIPMENT NAME (EX. 1RP1)	6. INSERT SUPPLYING PANEL DESIGNATION WHERE X'S ARE INDICATED. (EX. PANEL 1PP1, XFMR 1T1). WHEN THIS EQUIPMENT IS SERVED DIRECTLY FROM A TRANSFORMER, THE PANEL SERVING THE TRANSFORMER SHALL ALSO BE LISTED.
3. COLOR: (FACE/LETTERING) (BLK/WH) - NORMAL POWER (RED/WH) - ALL EMERGENCY POWER (GRN/WH) - UPS POWER	7. SECURE SCREWS TO OUTSIDE PANELBOARD COVER WITH #4-40 STAINLESS STEEL COUNTERSINK SCREWS WITH MATCHING NUTS AND LOCKWASHERS. DO NOT COVER OTHER LABELS.
4. SUPPLY SOURCE WHERE X'S ARE INDICATED. POSSIBLE CHOICES ARE: "NORMAL" "AUTO. EQPT." "CRITICAL" "UPS" "LIFE SAFETY" "EMERGENCY"	

6 PANEL LABEL AND MOUNTING DETAIL

GMC
GMK ASSOCIATES, INC.
915 Lady Street, Suite C
Columbia, SC 29201
T 803.766.1235
GMCNETWORK.COM

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350 WAYNE - HAZWASTE PROCESSING AREA UPGRADES

350 WAYNE STREET RENOVATION

GMC PROJECT #: ACOL260001

U OF SC PROJECT #: H27-Z632 / 50003721

GMK, INC. No. C00287 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

No. 31520 — REGISTERED PROFESSIONAL ENGINEER — 06/03/2026

ELECTRICAL RISER DIAGRAM AND DETAILS.

E5.1

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