AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, 16-2765 KANSAS

REFERENCE LEGEND

- 1–A1 — DETAIL REFERENCE REF # – SHT. #
- A–A1 SIM — DETAIL REFERENCE REF # – SHT #
- 100'–0" FIN. FLR. — ELEVATION DESIGNATION
- 1 — DOOR MARK
- A — WINDOW MARK
- CUT LINE
- 4 — PARTITION MARK
- REVISIONS
- WAITING 101 — ROOM NAME & NUMBER
- A–A1 — PROJECTED VIEW OF PHOTOGRAPH REF # – SHT. #
- PROJECT NORTH
- TRUE NORTH
- A DETAIL SCALE — DRAWING NAME, DRAWING SCALE, DRAWING REF #

MATERIAL LEGEND

- BATT INSULATION
- BRICK MASONRY
- COMPACTED EARTH
- RIGID INSULATION
- POURED CONCRETE
- WALL W/ BRICK VENEER
- METAL STUD WALL
- CONCRETE WALL
- WOOD STUD WALL
- C.M.U. WALL
- PLYWOOD
- ROUGH WOOD
- FINISH WOOD
- METAL STUD
- GLASS LARGE SCALE
- STRUCTURAL STEEL
- CONC. MASONRY UNIT SECTION
- MTL JOIST
- MTL FURRING
- PRECAST CONC. SLAB

PROPOSED RENDERING

SHEET INDEX

GENERAL

CFP CODE FOOTPRINT
ADA ADA DIAGRAMS

DEMOLITION

D1 FIRST & SECOND FLOOR DEMOLITION PLANS
D2 PHOTOGRAPHS

ARCHITECTURAL

A1 FIRST FLOOR PLAN & INTERIOR ELEVATIONS
A2 SECOND FLOOR PLAN
A3 FIRST FLOOR INTERIOR ELEVATIONS
A4 WALL SECTIONS/EXTERIOR ELEVATIONS
A5 SECOND FLOOR INTERIOR ELEVATIONS
A6 SECOND FLOOR INTERIOR ELEVATIONS
A7 FINISH FLOOR & REFLECTED CEILING PLANS
A8 FINISH, DOOR, & WINDOW SCHEDULES

STRUCTURAL

S1 FOUNDATION & FIRST FLOOR FRAMING PLAN
S2 SECOND FLOOR FRAMING PLAN & SECTIONS
S3 FRAMING SECTIONS

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ME1 M/E ROOF PLAN
M0 MECHANICAL SPECIFICATIONS
M1 BASEMENT AND FIRST FLOOR HVAC PLANS
M2 SECOND FLOOR HVAC PLAN AND SCHEDULES
M3 BASEMENT WASTE & VENT AND DOMESTIC WATER PLANS
M4 FIRST FLOOR WASTE & VENT AND DOMESTIC WATER PLANS
M5 SECOND FLOOR WASTE & VENT AND DOMESTIC WATER PLANS
M6 SCHEDULES AND DETAIL
M7 SCHEDULE, FIRE PROTECTION RISER DIAGRAM AND DETAIL
M8 MANUFACTURER DETAILS
M9 MANUFACTURER DETAILS

ELECTRICAL

E0 ELECTRICAL SPECIFICATIONS
E1 FIRST FLOOR LIGHTING AND POWER PLANS
E2 BASEMENT ELECTRICAL PLAN
E3 SECOND FLOOR ELECTRICAL PLAN AND SCHEDULE
E4 SCHEDULES AND DETAILS

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PERMIT SET w/BALCONY 11-1-2021

ABBREVIATIONS

&	AND
∠	Angle
@	At
℄	Centerline
ø	Diameter or Round
#	Pound or Number
Acous.	Acoustical
Adj.	Adjustable
A.F.F.	Above Finished Floor
Aggr.	Aggregate
Al.	Aluminum
Approx.	Approximate
Arch.	Architect or Architectural
Asb.	Asbestos
Asph.	Asphalt
A.V.	Audio Visual
Bd.	Board
Bitum.	Bituminous
Bldg.	Building
Blk.	Block
Blk'g.	Blocking
Bm.	Beam
Bot.	Bottom
BO	BY OWNER
Brg.	Bearing
Brk.	Brick
Cab.	Cabinet
Clg.	Ceiling
Clr.	Clear
Cntr.	Counter
Col.	Column
Conc.	Conc. Concrete
C.T.	Ceramic Tile
CMU	Concrete Masonry Unit
Ctr.	Center
Dbl.	Double
Det.	Detail
D.F.	Drinking Fountain
Dia.	Diameter
Dim.	Dimension
Dn.	Down
Dr.	Door
Ds.	Downspout
Dwg.	Drawing
Dwr.	Drawer
(E)	Existing
E.	East or Existing
Ea.	Each
E.J.	Expansion Joint
El.	Elevation
Elec.	Electrical
Elev.	Elevator
Eq.	Equal
Equip.	Equipment
E.W.	Each Way
E.W.C.	Elec. Water Cooler
Exist.	Existing
Expo.	Exposed
Exp.	Expansion
Ext.	Exterior
F.A.	Fire Alarm
F.D.	Floor Drain
Fdn.	Foundation
F.E.	Fire Extinguisher
F.E.C.	F.E. Cabinet
Fin.	Finish
Fl.	Floor
Flash.	Flashing
fl.	Flow line
Ft.	Foot or feet
Ftg.	Footing
Furr.	Furring
Fut.	Future
Ga.	Gauge
Galv.	Galvanized
G.B.	Grab Bar
Gl.	Glass
Gnd.	Ground
Gr.	Grade
Gyp.	Gypsum
H.B.	Hose Bibb
H.C.	Hollow Core
Hdwd.	Hardwood
Hdwr.	Hardware
H.M.	Hollow Metal
Horiz.	Horizontal
Hr.	Hour
Hgt.	Height
I.D.	Inside Diameter
Insul.	Insulation
Int.	Interior
Jan	Janitor
Jt.	Joint
Kit.	Kitchen
Lab.	Laboratory
Lam.	Laminate
Lav.	Lavatory
Lkr.	Locker
Lt.	Light
Mas.	Masonry
Max.	Maximum
M.C.	Medicine Cabinet
Mech.	Mechanical
Memb.	Membrane
Met.	Metal
Mfr.	Manufacturer
Mh.	Manhole
Min.	Minimum
Mir.	Mirror
Misc.	Miscellaneous
M.O.	Masonry Opening
Mtd.	Mounted
N.	North
N.I.C.	Not In Contract
No. or #	Number
Nom.	Nominal
N.T.S.	Not To Scale
O/	On or Over
Obs.	Obscure
O.C.	On Center
O.D.	Diameter
Off.	Office
Opng.	Opening
Opp.	Opposite
P.	Paint
Pl.	Plate
P.Lam.	Plastic Laminate
Plas.	Plaster
Plywd.	Plywood
Pr.	Pair
Pt.	Point
P.T.D.	Paper Towel Dispenser
Ptn.	Partition
P.T.R.	Paper Towel Receptacle
Q.T.	Quarry Tile
R.	Riser
Rad.	Radius
R.D.	Roof Drain
Ref.	Reference
Reinf.	Reinforced
Req'd	Required
Resil.	Resilient
Rm.	Room
R.O.	Rough Opening
S.	South
S.B.	Splash Block
S.C.	Solid Core
Sched.	Schedule
S.D.	Soap Dispenser
Sect.	Section
Shr.	Shower
Sht.	Sheet
Sim.	Similar
S.N.D.	Sanitary Napkin Disp.
S.N.R.	Sanitary Napkin Recep.
Spec.	Specification
Sq.	Square
SS.	Stainless Steel
Std.	Standard
St.	Steel
Stor.	Storage
Strl.	Structural
Susp.	Suspended
S.V.	Sheet Vinyl
Sym.	Symmetrical
Tex.	Texture
T.B.	Towel Bar
T.Bd.	Tack Board
Temp.	Tempered
T.&G.	Tongue & Groove
Thk.	Thick
T.O.M.	Top Of Masonry
T.O.S.	Top Of Steel
T.P.	Top Of Pavement
T.P.D.	Toilet Paper Dispenser
T.V.	Television
T.W.	Tackwall
Typ.	Typical
Trd.	Tread
U.O.N.	Unless Otherwise Noted
Ur.	Urinal
V.C.T.	Vinyl Composition Tile
V.T.	Vinyl Tile
V.B.	Vapor Barrier
Vert.	Vertical
Vest.	Vestibule
Vyl.	Vinyl
W.	West
w/	With
w/o	Without
W.C.	Wall Covering
Wd.	Wood
Wp.	Waterproof
Wdw.	Window
Wsct.	Wainscot
Wt.	Weight

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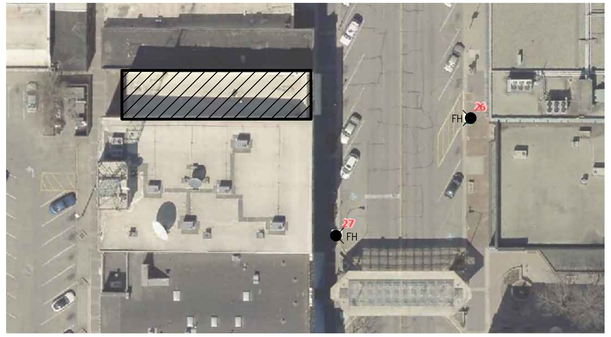
fax (785) 827-6952
jtmanley@midkan.net

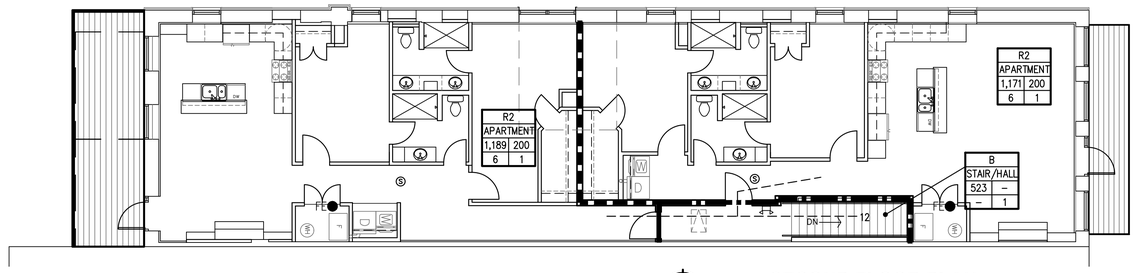
PROJECT INFORMATION

TYPE OF CONSTRUCTION	INTERIOR REMODEL
FACILITY NAME	–
FACILITY ADDRESS	135 N. SANTA FA AVE. (2nd FLOOR) SALINA, KS. 67401
OWNER NAME	WALKER MICHAEL B TRUST #1
OWNER ADDRESS	PO BOX 856 SALINA, KS 67402–0856
REASON FOR SUBMITTAL	INTERIOR REMODEL (2nd FLOOR)
COUNTY	SALINE
FIRE DEPARTMENT	CITY OF SALINA
WATER SUPPLY	CITY OF SALINA
BLDG INSPECTION DEPT.	CITY OF SALINA
AUTHORITY HAVING JURISDICTION	CITY OF SALINA
ARCHITECT	JONES GILLAM RENZ ARCHITECTS 730 N. NINTH ST. SALINA, KS 67401 (785) 827–0386 phone (785) 827–0392 fax
CODES/REGULATIONS	2012 INTERNATIONAL BUILDING CODE 2012 INTERNATIONAL MECHANICAL CODE 2012 INTERNATIONAL PLUMBING CODE 2009 INTERNATIONAL ENERGY CONSERVATION CODE 2011 NATIONAL ELECTRIC CODE 2012 INTERNATIONAL FIRE CODE KANSAS FIRE PREVENTION CODE 2010 ADA STANDARDS



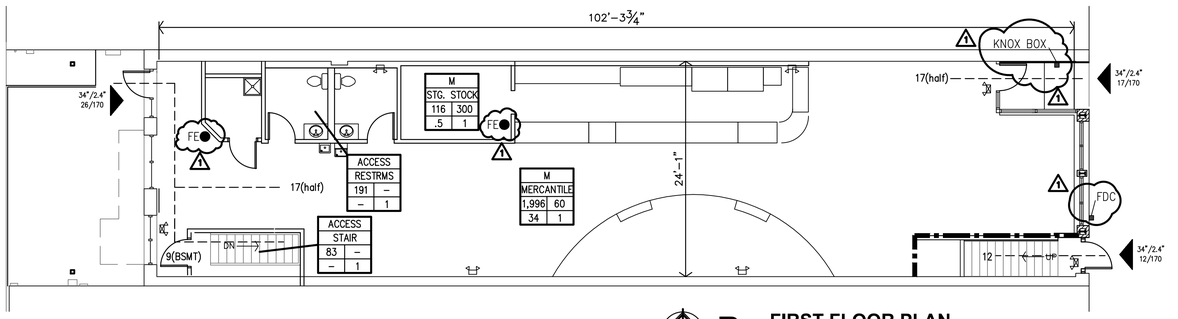
D **SITE PLAN**

0 20' 40' 80'



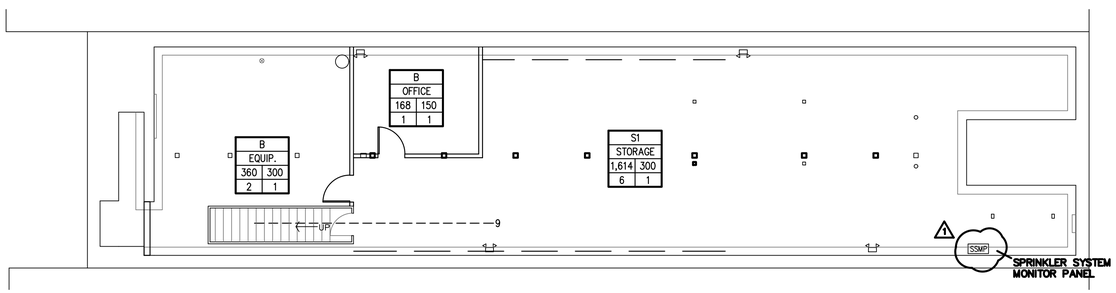
C **SECOND FLOOR PLAN**

1/8"=1'-0"



B **FIRST FLOOR PLAN**

1/8"=1'-0"



A **BASEMENT FLOOR PLAN**

1/8"=1'-0"

LEGEND

DESIGNATED EMERGENCY EXIT	68"/24.4" — EXIT WIDTH (ACTUAL/REQUIRED) 122/340 — OCCUPANT LOAD (ACTUAL/ALLOWED)
0 HOUR CONSTRUCTION	
1HR TENANT SEPARATION W/ 60 MIN PROTECTED OPENINGS	
1HR RATED WALL 60 MIN PROTECTED OPENINGS	
FIRE HYDRANT	FH
EMERGENCY/EXIT COMBINATION LIGHT	
EMERGENCY LIGHT	
FIRE EXTINGUISHER/CABINET	FE
SMOKE DETECTOR	S
FIRE SPRINKLER SERICE MONITORING PANEL	SSMP

	B
OCCUPANCY GROUP (AU – ACCESSORY USE)	CLASSROOM
OCCUPANCY USE	712 50
ROOM SQUARE FOOTAGE/OCCUPANT LOAD FACTOR	14 1
OCCUPANT LOAD/REQUIRED NUMBER OF EXITS	

CODE INFORMATION

OCCUPANCY OVERALL: MIXED OCCUPANCY

OCCUPANCY GROUPS:
- M MERCANTILE
- S–1 STORAGE
- R–2 RESIDENCE

CONSTRUCTION TYPE: III–B

BASIC ALLOWABLE AREA:
- M 12,500 SF
- S–1 17,500 SF
- R–2 16,000 SF

(NON–SEPARATED USES. PER IBC SEC. 508.3.2)

ACTUAL BUILDING AREA:
- BASEMENT 2,311 SF
- FIRST FLOOR 2,448 SF
- SECOND FLOOR 2,448 SF
- BUILDING TOTAL 4,896 SF

(BASEMENT NOT INCLUDED IN TOTAL PER IBC SEC. 506.5)

BASIC ALLOWABLE STORIES: 2

ACTUAL STORIES: 2

BASIC ALLOWABLE HEIGHT: 55'

ACTUAL HEIGHT: 45'

FIRE RESISTANCE RATING FOR BUILDING ELEMENTS

	III–B
STRUCTURAL FRAME:	0 HOUR
INTERIOR BEARING WALLS:	0 HOUR
INTERIOR NON–BEARING WALLS:	0 HOUR
EXTERIOR BEARING WALLS:	2 HOUR
EXTERIOR NON–BEARING WALLS:	0 HOUR
FLOOR/CEILING:	0 HOUR
CEILING/ROOF:	0 HOUR
SHAFT ENCLOSURES:	0 HOUR

OCCUPANCY SEPARATIONS: *(NON–SEPARATED USES. PER IBC SEC. 508.3.2)*
ALLOWABLE AREA & HEIGHT CALCULATIONS ARE BASED ON THE MOST RESTRICTIVE USE. DIFFERENT USES ARE NOT SEPARATED BY FIRE BARRIERS.

CORRIDOR WALLS – 1/2 HOUR, 708.3.
DWELLING UNIT SEPERATIONS – 1/2 HOUR, 708.3
DWELLING UNIT FLOOR/CEILING,– 1/2 HOUR, 711.3

SPECIAL CONDITIONS:
1. PORTABLE 2A–10BC FIRE EXTINGUISHERS INSTALLED.
2. EXIT & EMERGENCY LIGHTING INSTALLED.

FIRE ALARM REQUIREMENTS:
NOT REQUIRED

AUTOMATIC FIRE SUPPRESSION SYSTEM:
SPRINKLER SYSTEM TO BE PROVIDED PER NFPA 13

EMERGENCY POWER SOURCE:
EXIT SIGNS & EMERGENCY LIGHTING HAVE BATTERY BACK–UP.

HAZARDOUS MATERIALS: *(PER IBC TABLES 414)*
NO HAZARDOUS MATERIALS ARE TO BE STORED

SMOKE PARTITIONS:
NOT REQUIRED

SMOKE CONTROL:
NOT REQUIRED

STANDPIPES:
NOT REQUIRED

TOTAL OCCUPANT LOAD: 44

EXITING: REFERENCE PLAN

OCCUPANT LOAD FACTORS:

OCCUPANCY	USE	LOAD FACTOR	OCCS=2–EXITS
M	OFFICE	60 sf/OCCUPANT	49
S–1	STORAGE	300 sf/OCCUPANT	29
R–2	RESIDENCE	200 sf/OCCUPANT	10

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AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

GREGORY S. GILLAM
3382
9/22/2021
KANSAS
PROFESSIONAL ARCHITECT

REVISION:
1 10–26–2021
DATE: 10–6–2021
JOB: 16–2765
SHEET:

CFP

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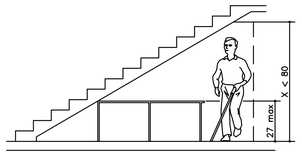
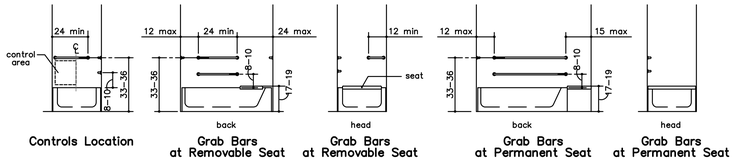


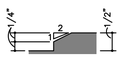
Vertical Clearance



Controls Location | Grab Bars at Removable Seat | Grab Bars at Removable Seat | Grab Bars at Permanent Seat | Grab Bars at Permanent Seat

S STANDARD VERTICAL CLEARANCE

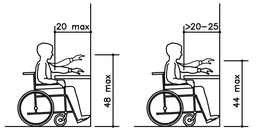
NO SCALE



Beveled Change in Level

P THRESHOLD ADA DIAGRAMS

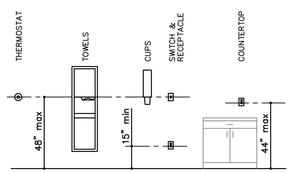
NO SCALE



Obstructed High Forward Reach | Unobstructed Forward Reach | Unobstructed Side Reach | Obstructed High Side Reach

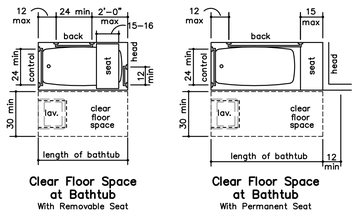
R STANDARD REACH ADA DIAGRAMS

NO SCALE



Q STANDARD CONTROL REACH LIMITATIONS DETAILS

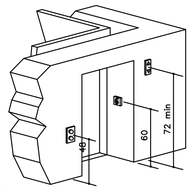
NO SCALE



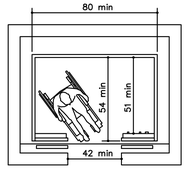
Clear Floor Space at Bathtub With Removable Seat | Clear Floor Space at Bathtub With Permanent Seat

O STANDARD BATHROOM/TUB ADA DIAGRAMS

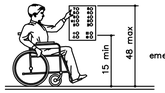
NO SCALE



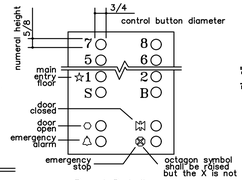
Hoistway and Elevator Entrances



Minimum Dimensions for Elevator Car



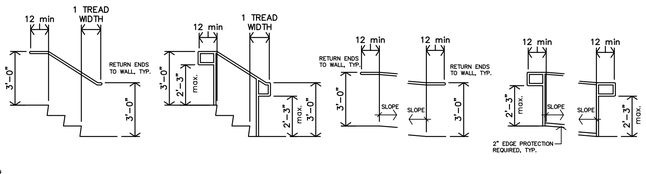
Car Control Height



Panel Detail

N STANDARD ELEVATOR ADA DIAGRAMS

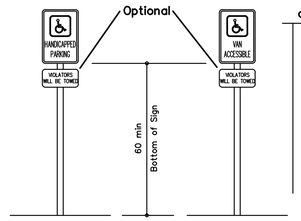
NO SCALE



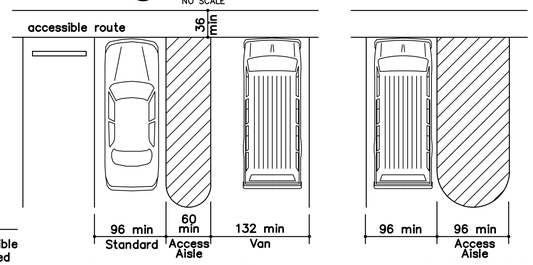
Stair Handrail Extensions at Walls | Stair Handail Extensions at Freestanding Handrails | Ramp Handrail Extensions at Walls | Ramp Handail Extensions at Freestanding Handrails

M STANDARD RAMP/STAIR HANDRAIL EXTENSIONS

NO SCALE



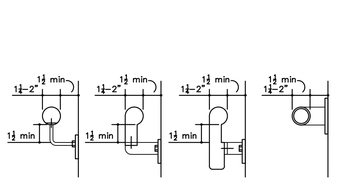
Typical Handicapped Parking Signage | Van Accessible Handicapped Parking Signage



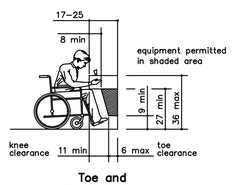
Handicap Accessible Parking Stalls | Van Accessible Parking Stall (per 502.2 exception)

L STANDARD PARKING ADA DIAGRAMS

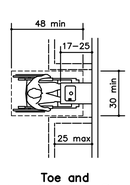
NO SCALE



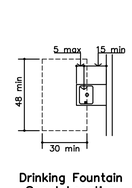
Handrail | Handrail | Handrail | Grab Bar



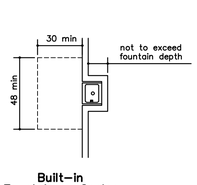
Toe and Knee Clearance Elevation



Toe and Knee Clearance Plan



Drinking Fountain Spout Location



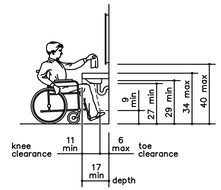
Built–in Fountain or Cooler

K STANDARD HANDRAIL/GRAB BAR DETAILS

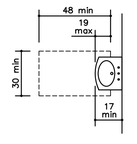
NO SCALE

J STANDARD DRINKING FOUNTAIN DETAILS

NO SCALE



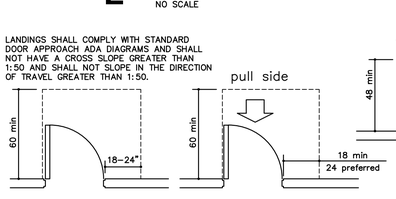
Lavatory Clearances



Clear Floor Space at Lavatories

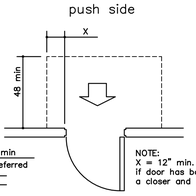
H STANDARD LAVATORY DETAILS

NO SCALE

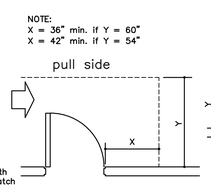


Exterior Landing

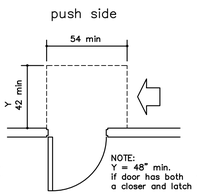
Front Approach – Swinging Door



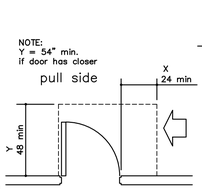
Front Approach – Swinging Door



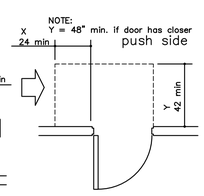
Hinge Side Approach – Swinging Door



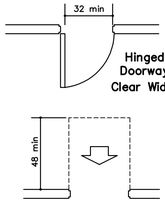
Side Approach – Swinging Door



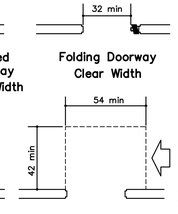
Latch Side Approach Swinging Door



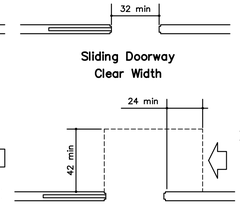
Latch Side Approach Swinging Door



Front Approach – Sliding or Folding Doors



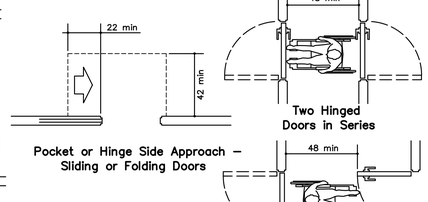
Side Approach – Sliding or Folding Doors

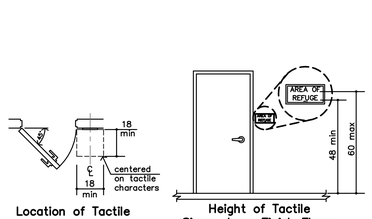


Stop or Latch Side Approach – Sliding or Folding Doors

G STANDARD DOOR APPROACH ADA DIAGRAMS

NO SCALE

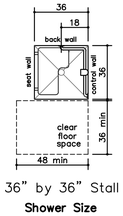




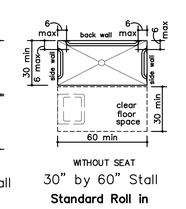
Location of Tactile Signs at Doors | Height of Tactile Signs above Finish Floors

F TACTILE SIGN DIAGRAM

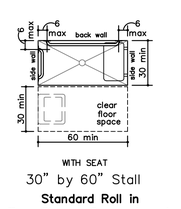
NO SCALE



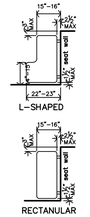
36" by 36" Stall Shower Size and Clearances



30" by 60" Stall Standard Roll in Type Shower Compartment Size and Clearance



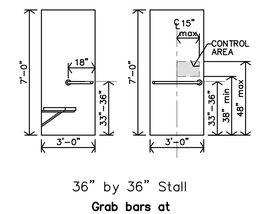
30" by 60" Stall Standard Roll in Type Shower Compartment Size and Clearance



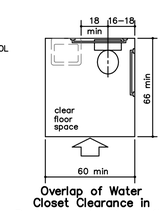
Seat Design

E STANDARD SHOWER ADA DIAGRAMS

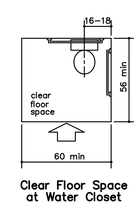
NO SCALE



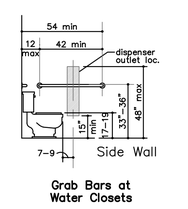
36" by 36" Stall Grab bars at Shower Stall | 30" by 60" Stall Grab bars at Shower Stall | 30" by 60" Stall Grab bars at Shower Stall



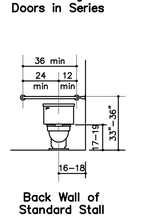
Overlap of Water Closet Clearance in Residential Dwelling Units (Exception)



Clear Floor Space at Water Closet



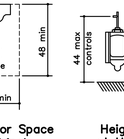
Grab Bars at Water Closets



Back Wall of Standard Stall

D STANDARD TOILET ADA DIAGRAMS

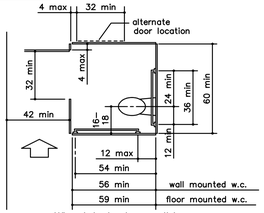
NO SCALE



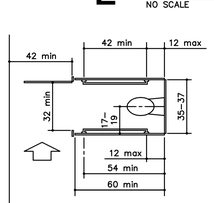
Clear Floor Space at Urinal | Heights at Urinal

C STANDARD URINAL ADA DIAGRAMS

NO SCALE



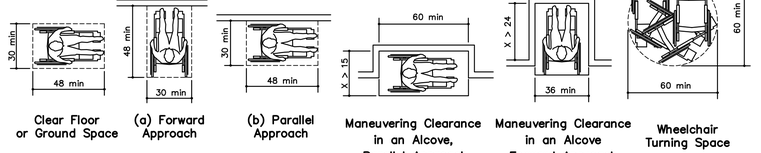
Wheelchair Accessible Toilet Compartment



Ambulatory Accessible Toilet Compartment

B STANDARD TOILET STALL ADA DIAGRAMS

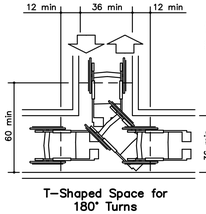
NO SCALE



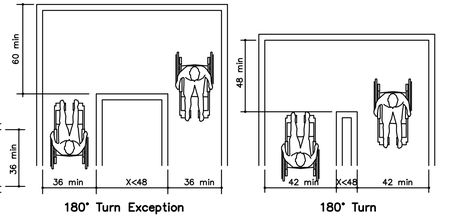
Clear Floor or Ground Space | (a) Forward Approach | (b) Parallel Approach | Maneuvering Clearance in an Alcove, Parallel Approach | Maneuvering Clearance in an Alcove Forward Approach | Wheelchair Turning Space

A STANDARD ADA DIAGRAMS

NO SCALE



T–Shaped Space for 180° Turns



180° Turn Exception | 180° Turn

FOR REFERENCE ONLY

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3382
STATE OF KANSAS
9/22/2021
REGISTERED PROFESSIONAL ARCHITECT

DATE: 10-6-2021
JOB: 16-2765
SHEET:

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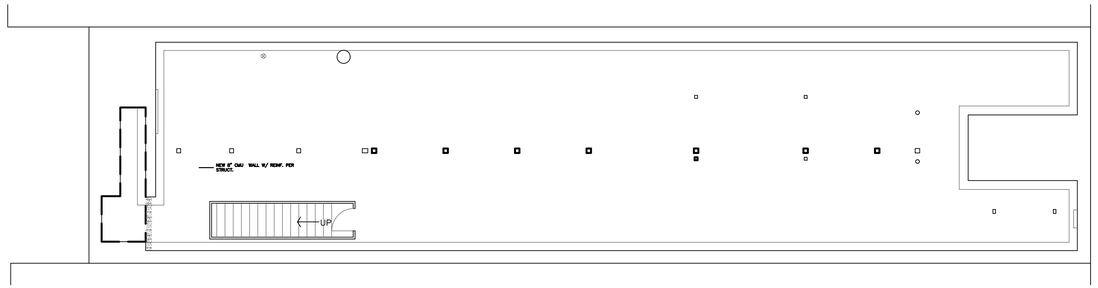
ADA



C BASEMENT FLOOR PLAN
1/8"=1'-0"

DEMOLITION NOTES

GENERAL

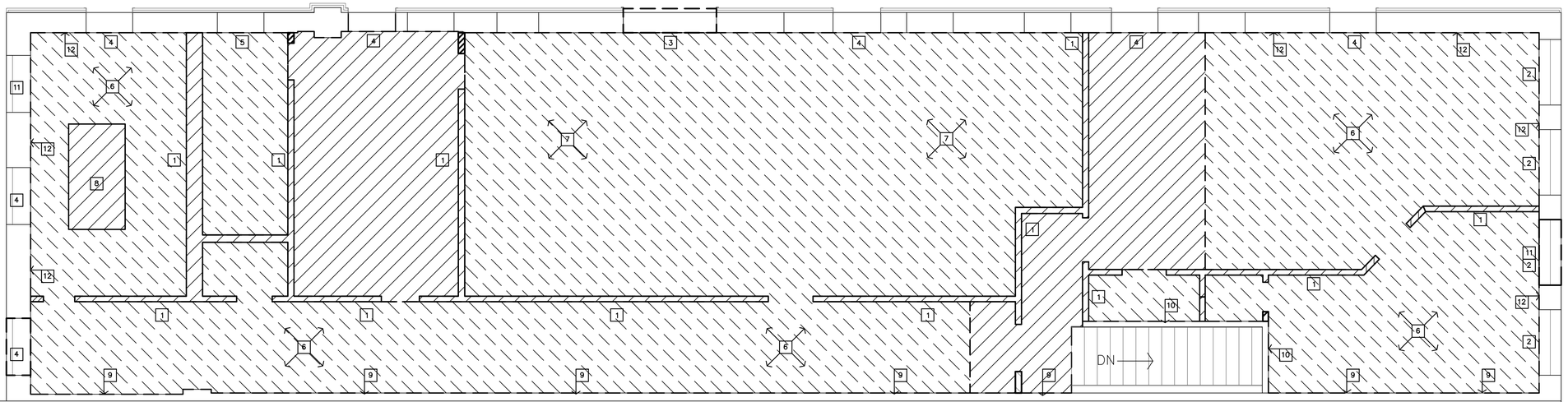
1. WHERE EXIST. BLDG. COMPONENTS ARE TO BE REMOVED; PATCH & REPAIR THE SURFACES TO MATCH EXIST. FINISH, UNLESS NEW FINISHES ARE CALLED FOR IN THE ROOM SCHEDULE.
2. REMOVE EXIST. BLDG. COMPONENTS AS INDICATED, IMPLIED OR AS REQUIRED SCHEMATICALLY SHOWN AS DASHED LINES. FIELD VERIFY ALL LOCATIONS.
3. THE ELECTRICAL & MECHANICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CORE DRILLING FOR PIPING & CONDUIT INSTALLATION.
4. ALL OTHER CUTTING, PATCHING & FINISHING, U.N.O. SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
5. SHORING OF EXISTING STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
6. NOTIFY ARCHITECT IMMEDIATELY IF ASBESTOS IS SUSPECTED ON SITE. DO NOT DISTURB UNLESS DIRECTED.
7. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE DEMOLITION BY DIFFERING TRADES.
8. CONTRACTOR COORDINATE LOCATION OF ANY OR ALL EXISTING RECEPTACLES, SWITCHES, DEVICES, ETC. PRIOR TO DEMOLITION, RELOCATE OR ABANDON ACCORDINGLY.

SPECIFIC

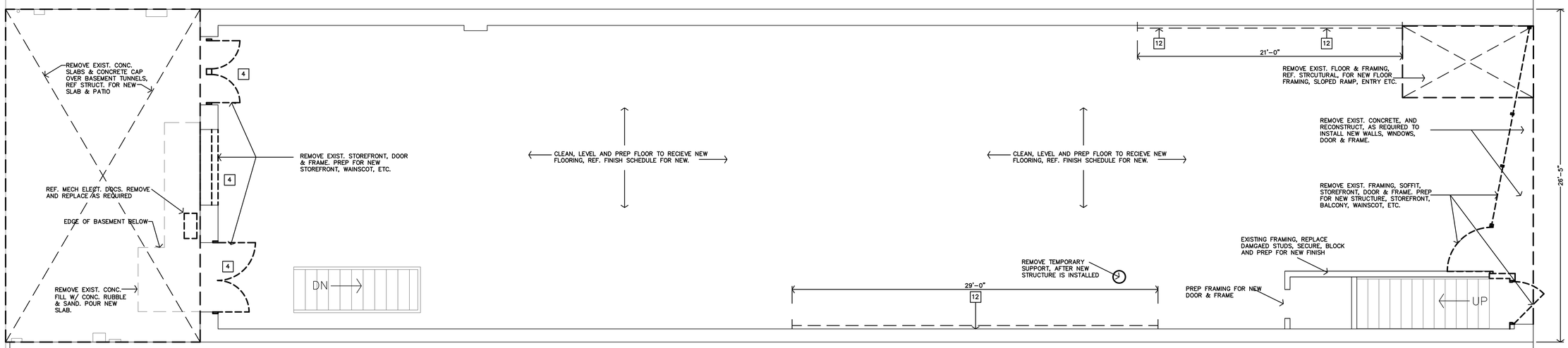
1. REMOVED WALL. FILL & PREP VOID AT FLOOR, LEVEL & MATCH ELEVATION, PREP FOR NEW.
2. REMOVE EXIST. WOOD WINDOW, PREP SILL, JAMB & HEAD FOR NEW.
3. SAWCUT & REMOVE EXIST. MASONRY WALL & MTL WALL PANEL. PREP OPENING FOR NEW.
4. REMOVE EXIST. PLYWD &/OR MTL PNL, PREP OPENING FOR NEW.
5. REMOVE EXIST. PLYWOOD & FILL IN OPENING PER DWGS.
6. EXIST. WOOD FLOORING TO REMAIN, ADDITIONAL LAYER OF RAISED OVERLAY SECTION .
7. REMOVE & SALVAGE EXIST. WOOD FLOORING.
8. EXIST. OPENING, FRAME & DECK TO MATCH & PREP FOR NEW FLOOR FINISH, LEVLE & MATCH ELEVATION.
9. EXIST. PLASTER TO REMAIN. CLEAN & PREP WALL FOR NEW CONSTRUCTION.
10. F.V. EXIST. WOOD STUDS. REMOVE STUDS AS REQ'D TO WORK w/ NEW WALL SYSTEM,
11. SAWCUT & REMOVE EXIST. WALL AS NEEDED TO INSTALL NEW DOOR SYSTEM
12. REMOVE EXIST. PLASTER TO EXPOSE EXIST. FACE BRICK, CLEAN & SEAL, REF INT ELEV FOR EXTENT

FLOORING NOTES

- INDICATES AREA OF EXISTING FLOORING ALREADY REMOVED, CLEAN, FILL & PATCH AS REQUIRED FOR NEW FINISHES, REF FINISH PLAN.
- INDICATES AREA OF EXISTING FLOORING REFERENCE FINISH FLOOR PLAN FOR NEW FINISHES.
- INDICATES AREA OF FLOOR & SUB-FLOOR VOID, AT WALL REMOVAL, CLEAN, FILL & PATCH AS REQUIRED FOR NEW FINISHES, REF FINISH PLAN.



B SECOND FLOOR DEMOLITION PLAN
1/4"=1'-0"



A FIRST FLOOR DEMOLITION PLAN
1/8"=1'-0"

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AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

DATE: 10-6-2021

JOB: 16-2765

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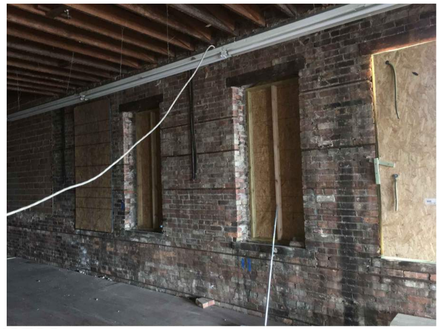
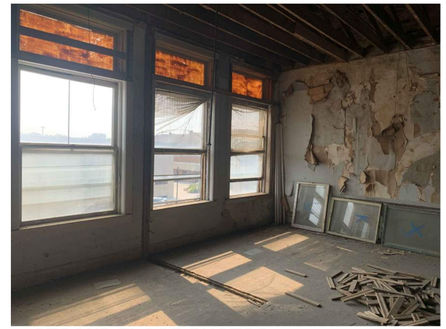


SECOND FLOOR PHOTOS
NO SCALE

SECOND FLOOR PHOTOS
NO SCALE



SECOND FLOOR PHOTOS
NO SCALE

FIRST FLOOR PHOTOS
NO SCALE

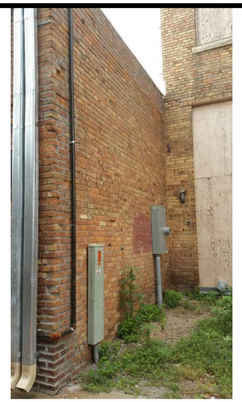
FIRST FLOOR PHOTOS
NO SCALE

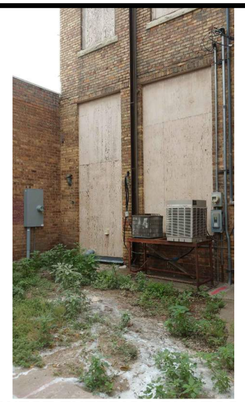
FIRST FLOOR PHOTOS
NO SCALE

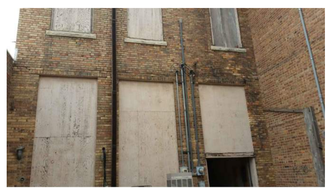
EAST EXTERIOR PHOTOS
NO SCALE

EAST EXTERIOR PHOTOS
NO SCALE

EAST EXTERIOR PHOTOS
NO SCALE

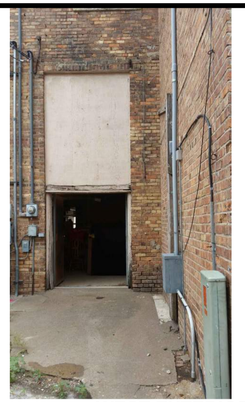






WEST EXTERIOR PHOTOS
NO SCALE

WEST EXTERIOR PHOTOS
NO SCALE



WEST EXTERIOR PHOTOS
NO SCALE

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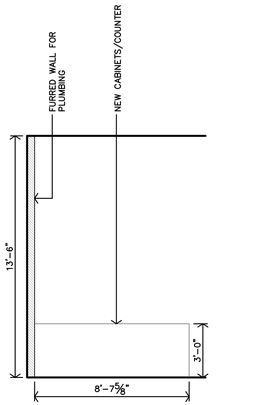
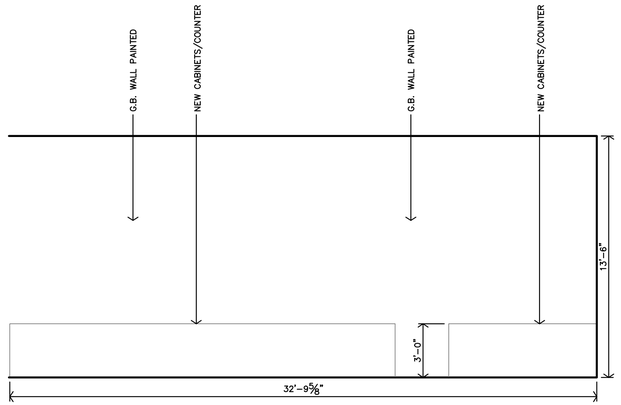


H SERVICE 106 ELEVATION
1/4"=1'-0"



G SERVICE 106 ELEVATION
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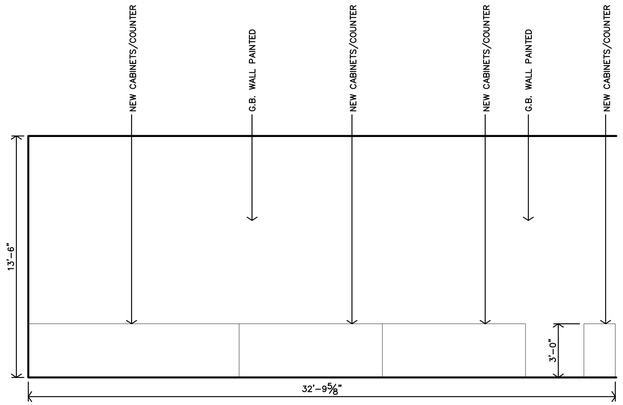

F SERVICE 106 ELEVATION
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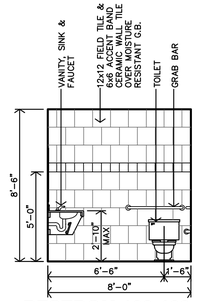
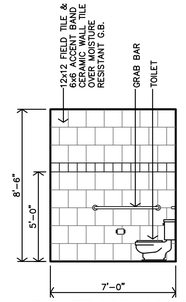
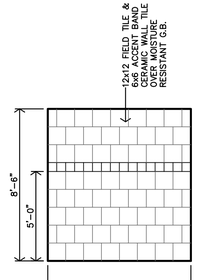


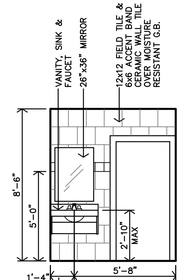
E RESTROM 108-109 ELEVATION
1/4"=1'-0"



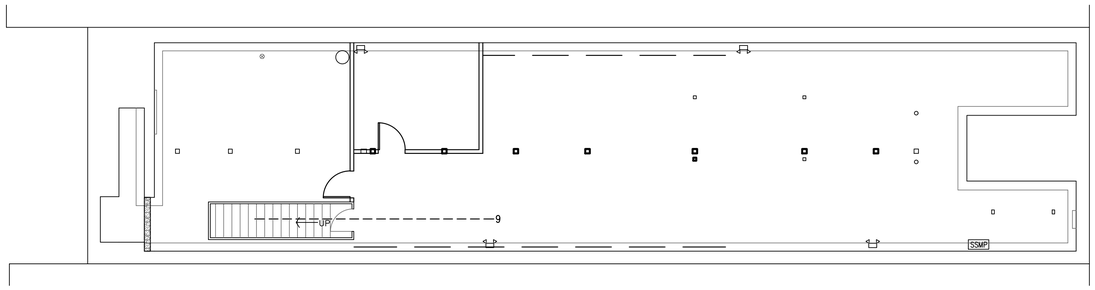
D RESTROM 108-109 ELEVATION
1/4"=1'-0"



C RESTROM 108-109 ELEVATION
1/4"=1'-0"



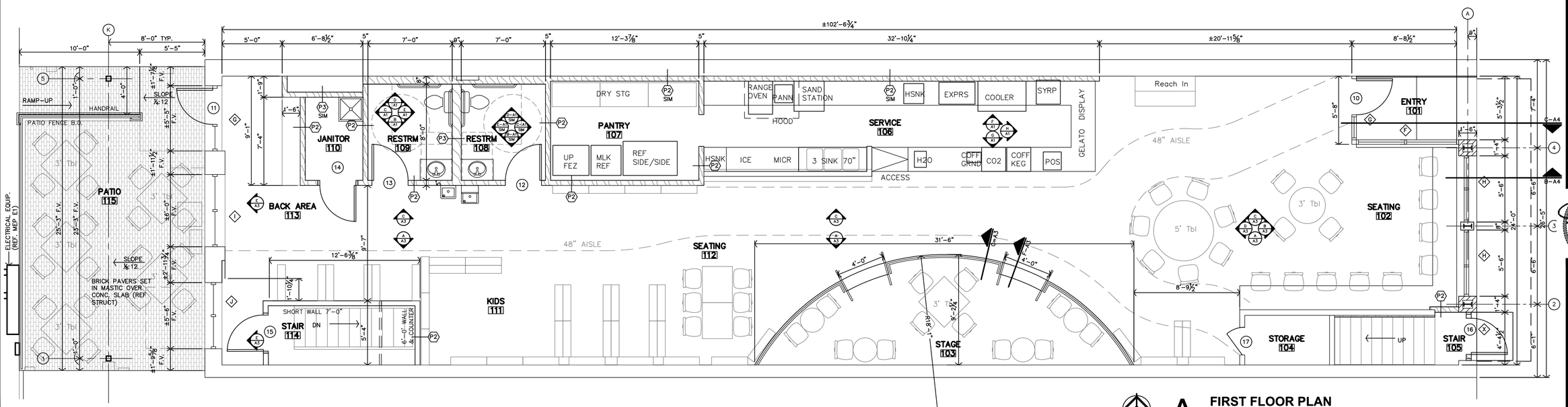
B RESTROM 108-109 ELEVATION
1/4"=1'-0"



J BASEMENT FLOOR PLAN
1/8"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & CONDITIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE &/OR DEMOLISH ALL MATERIALS & ACCESSORIES AS INDICATED, U.N.O.
3. INSTALL MATERIALS AND/OR FINISHES AS INDICATED, IMPLIED OR AS REQUIRED FOR COMPLETE & FINISHED INSTALLATION.
4. IF THERE IS A DISCREPENCY BETWEEN DRAWINGS AND FIELD CONDITIONS NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH WORK SO THAT ANY ISSUES MAY BE CLARIFIED.
5. ALL WORK SHALL BE IN CONFORMANCE W/ APPLICABLE BUILDING CODES & ORDINANCES.
6. ALL WORK SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF SALINA BUILDING SERVICES, ENGINEERING, AND UTILITY REQUIREMENTS.
7. ALL CONTRACTORS SHALL BE LISCENSED AND/OR REGISTERED TO PERFORM WORK IN THE CITY OF SALINA.
8. REFERENCE SHEET A2 FOR PARTITION, FURRING, FILL-IN OPENING SCHEDULES AND FLOOR CEILING ASSEMBLY



A FIRST FLOOR PLAN
1/4"=1'-0"

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1722 Main Street
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Salina, KS 67402
1722 Main Street
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AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

GREY S. GILLAM
3382
9/22/2021
KANSAS
PROFESSIONAL ARCHITECT

DATE: 11-2-2021
JOB: 16-2765
SHEET: A1

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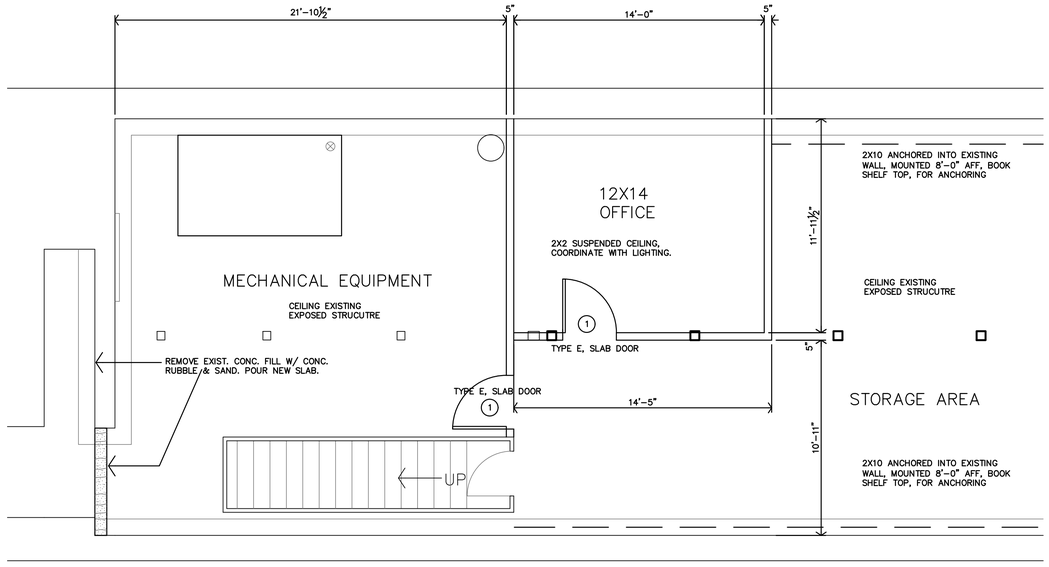
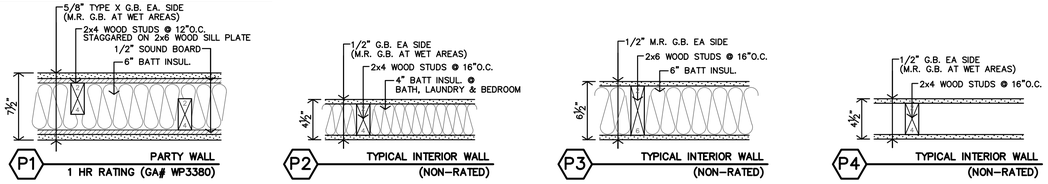


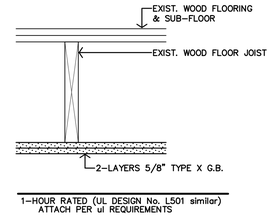
B **PARTIAL BASEMENT**
1/4"=1'-0"

INTERIOR PARTITION SCHEDULE

- **FULL HT. WALLS TO STRUCTURE & SEALED SMOKE TIGHT UNLESS OTHERWISE NOTED.**
- **NON-FULL HT. WALLS TO BOT. CHORD of EXIST. ROOF TRUSSES UNLESS OTHERWISE NOTED.**

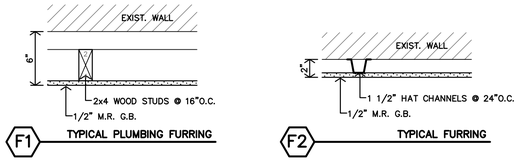


FLOOR/CEILING ASSEMBLY

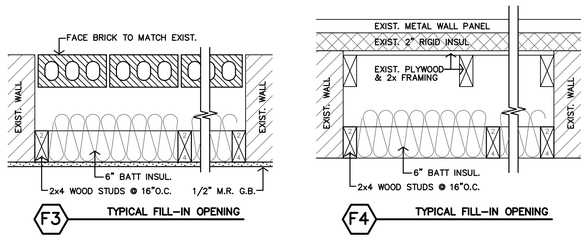


1-HOUR RATED (UL DESIGN No. L501 similar)
ATTACH PER ul REQUIREMENTS

FURRING SCHEDULE



FILL-IN OPENING SCHEDULE



GENERAL NOTES

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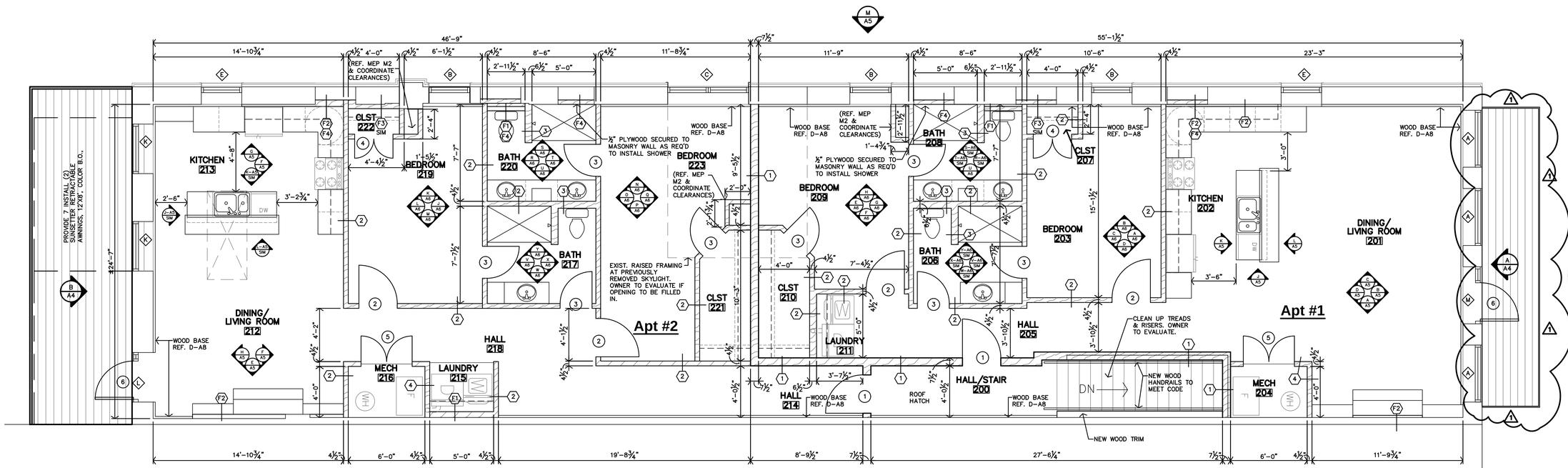
7. ALL CONTRACTORS SHALL BE LISCENSED AND/OR REGISTERED TO PERFORM WORK IN THE CITY OF SALINA.



A **SECOND FLOOR PLAN**
1/4"=1'-0"

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1722 Main Street,
Kansas City, MO 64108
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JONES GILLAM RENZ

AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

REVISION:
1 10-26-2021
DATE: 10-6-2021
JOB: 16-2765
SHEET: A2

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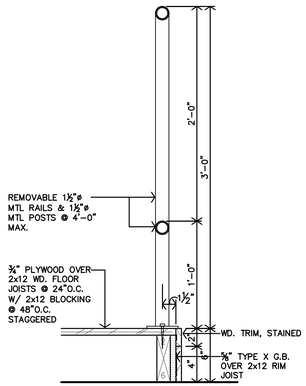
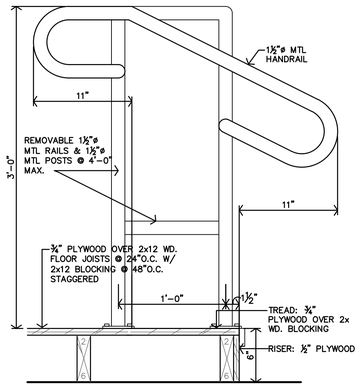
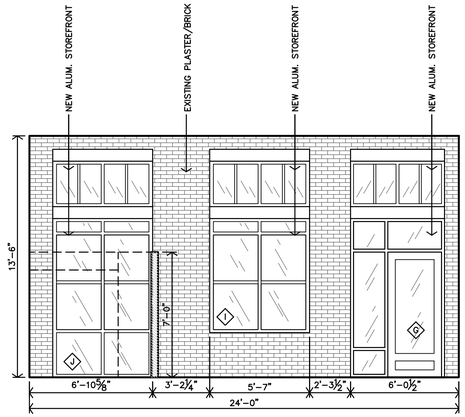


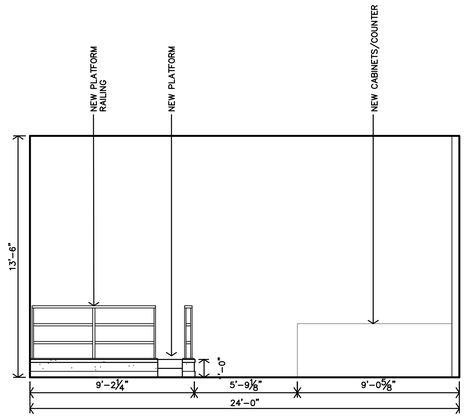
G STAGE SECTION
1 1/2"=1'-0"



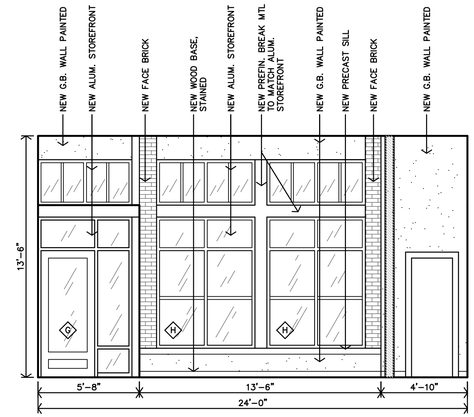
F STAGE SECTION
1 1/2"=1'-0"



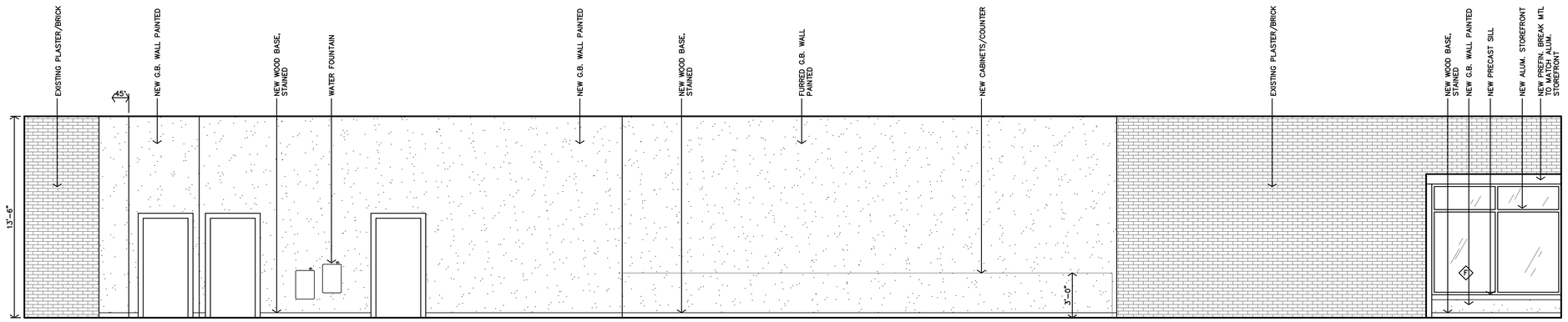
E FIRST FLOOR
WEST INTERIOR ELEVATION
1/4"=1'-0"



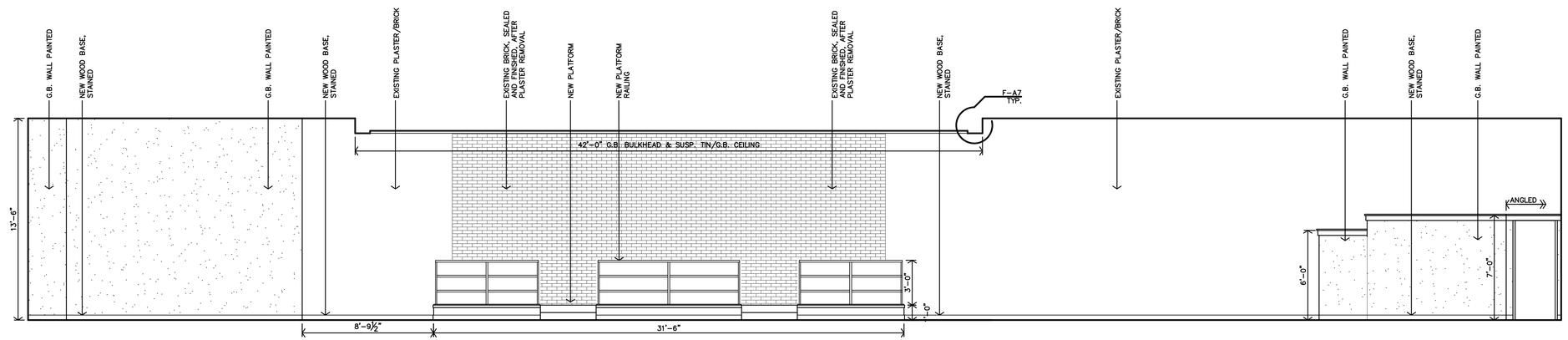
D FIRST FLOOR ELEVATION
1/4"=1'-0"



B FIRST FLOOR
EAST INTERIOR ELEVATION
1/4"=1'-0"



C FIRST FLOOR
NORTH INTERIOR ELEVATION
1/4"=1'-0"



A FIRST FLOOR
SOUTH INTERIOR ELEVATION
1/4"=1'-0"

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SALINA, KANSAS

DATE: 10-6-2021

JOB: 16-2765

SHEET: A3

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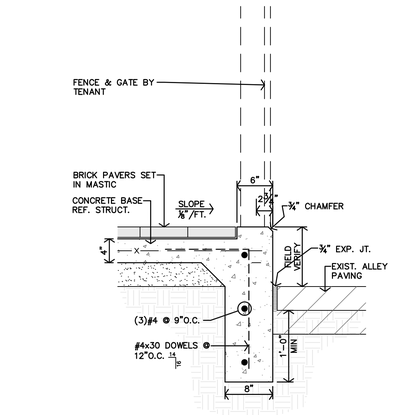
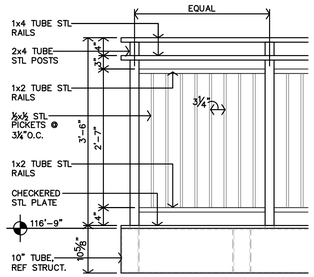
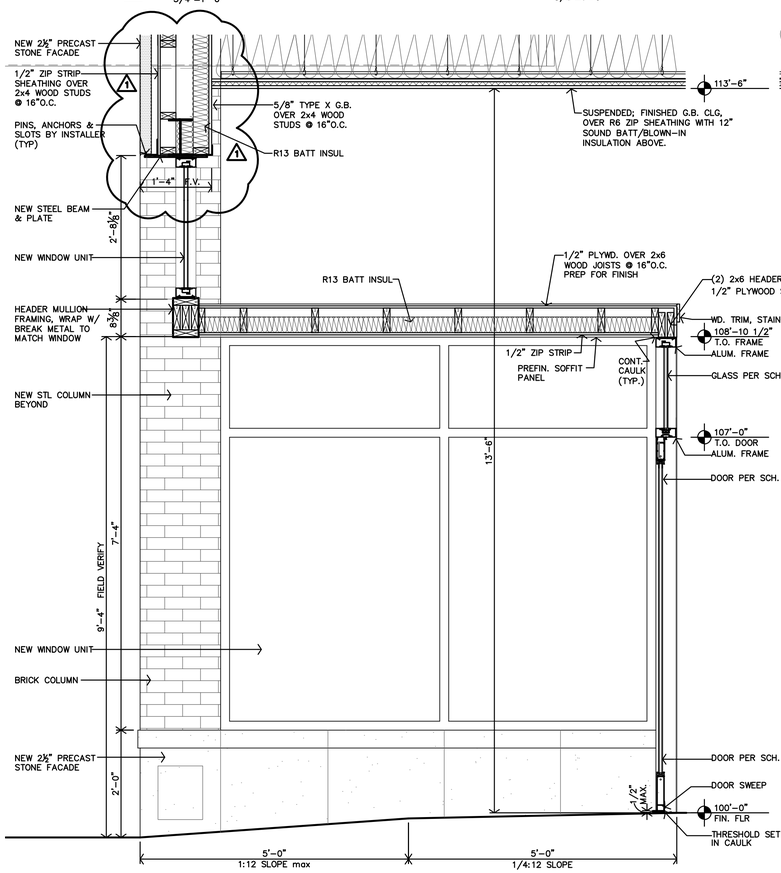


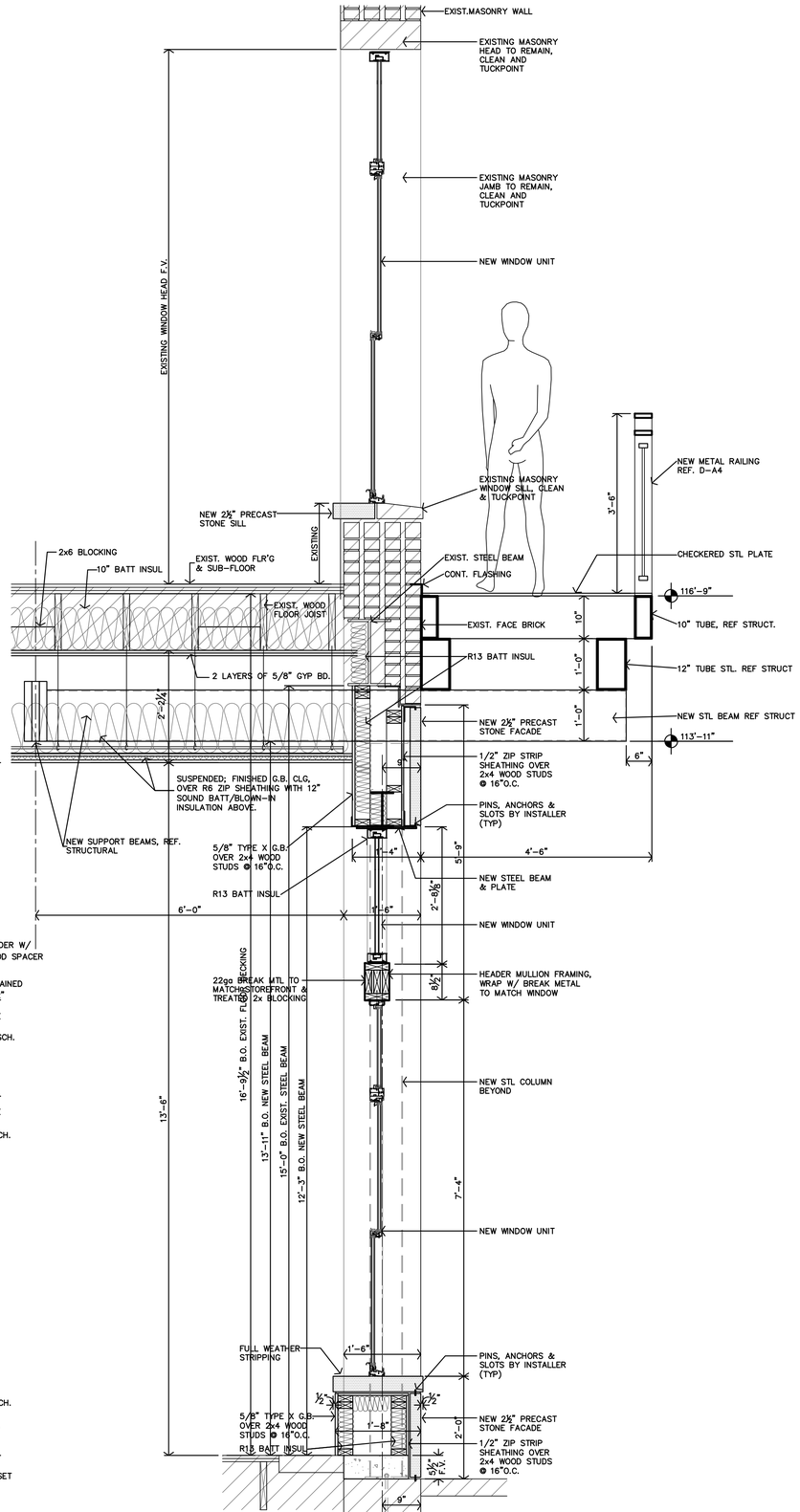
E PATIO RAILING
3/4"=1'-0"



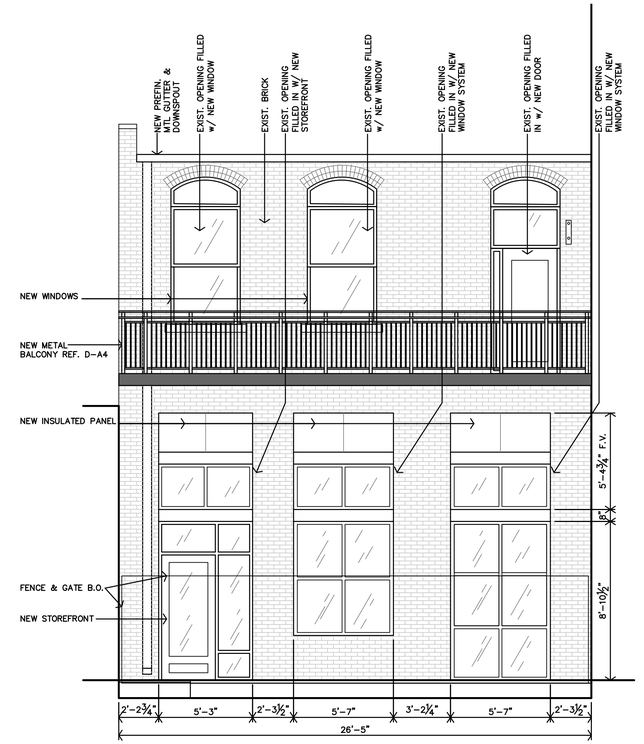
D BALCONY RAILING
3/4"=1'-0"



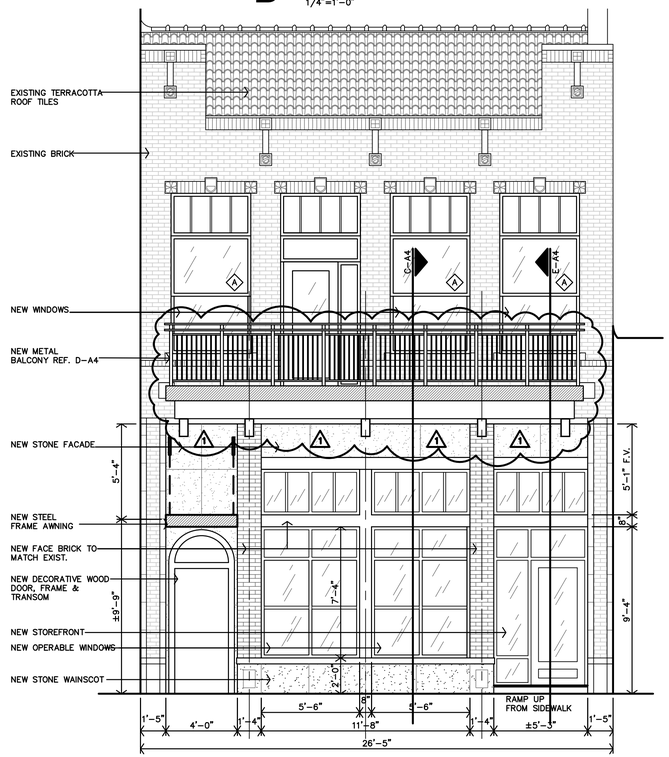
E STOREFRONT SECTION
3/4"=1'-0"



C FRONT WALL SECTION
3/4"=1'-0"



B WEST ELEVATION
1/4"=1'-0"



A EAST ELEVATION
1/4"=1'-0"

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AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

JEFFREY S. RENZ — 3382 — 9/22/2021 — KANSAS PROFESSIONAL ARCHITECT

REVISION:
⚠ 10-26-2021
DATE: 10-6-2021
JOB: 16-2765
SHEET: A4

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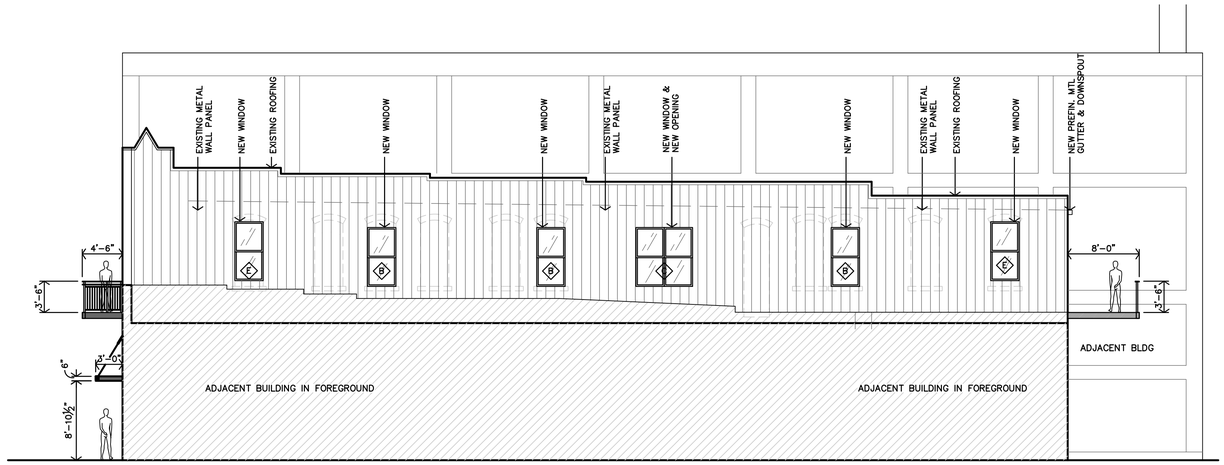
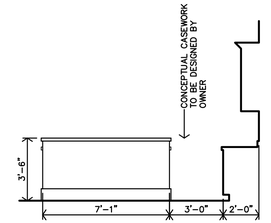
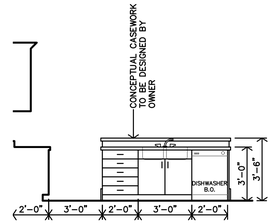


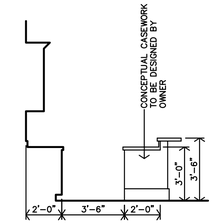
M NORTH ELEVATION
1/8"=1'-0"



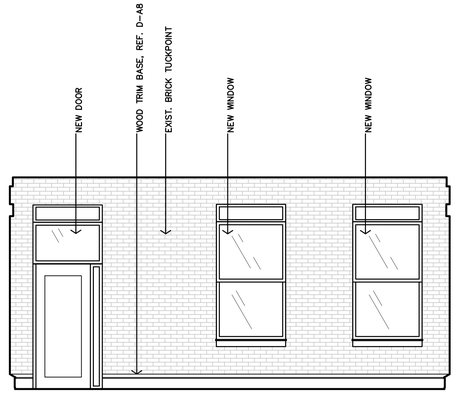
L APT. #1 & #2 KITCHEN CASEWORK ELEVATION
1/4"=1'-0"



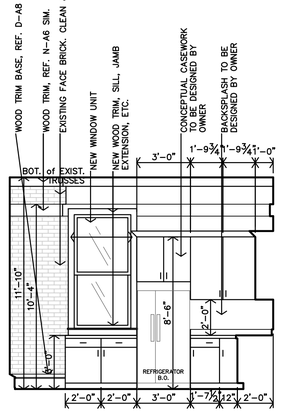
K APT. #1 & #2 KITCHEN CASEWORK ELEVATION
1/4"=1'-0"



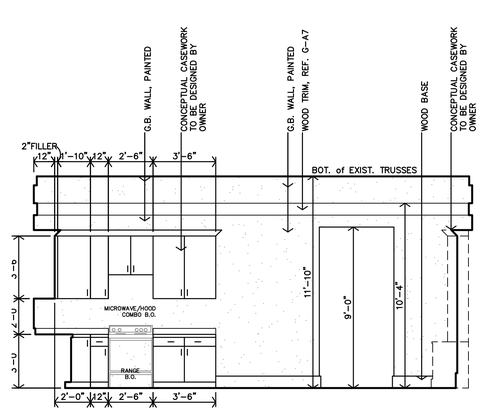
J APT. #1 & #2 KITCHEN CASEWORK ELEVATION
1/4"=1'-0"



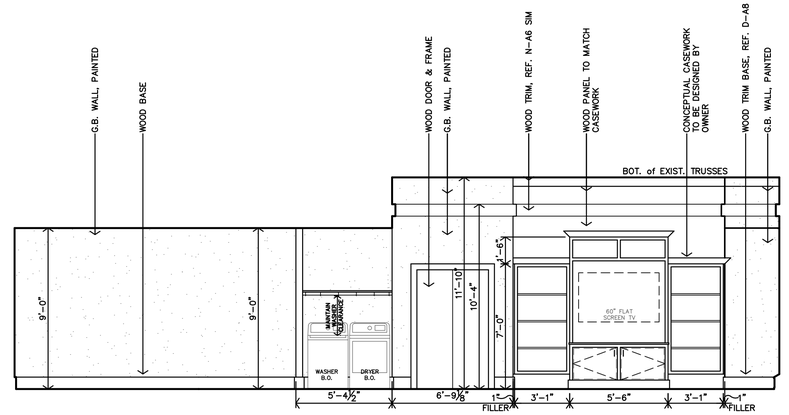
H APT. #2 DINING/LIVING RM/KITCHEN INTERIOR ELEVATION
1/4"=1'-0"



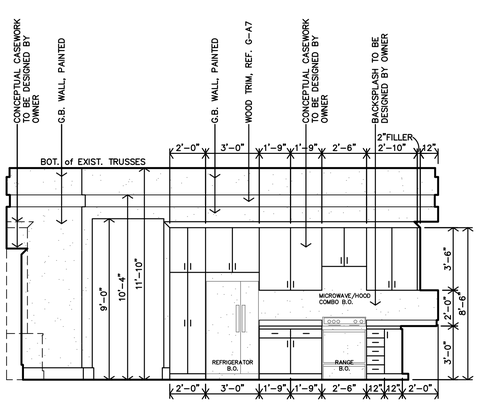
G APT. #2 DINING/LIVING RM/KITCHEN INTERIOR/CASEWORK ELEVATION
1/4"=1'-0"



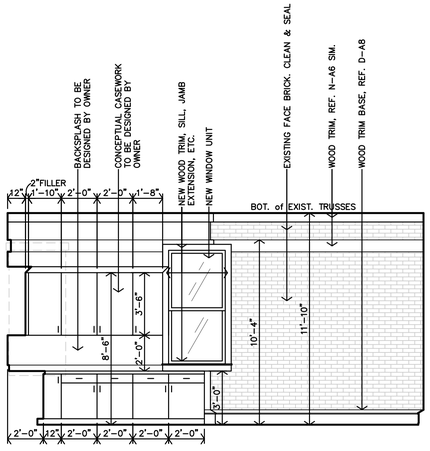
F APT. #2 DINING/LIVING RM/KITCHEN INTERIOR/CASEWORK ELEVATION
1/4"=1'-0"



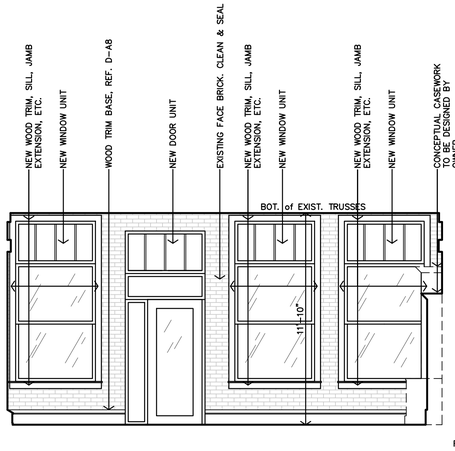
E APT. #2 DINING/LIVING RM/KITCHEN INTERIOR/CASEWORK ELEVATION
1/4"=1'-0"



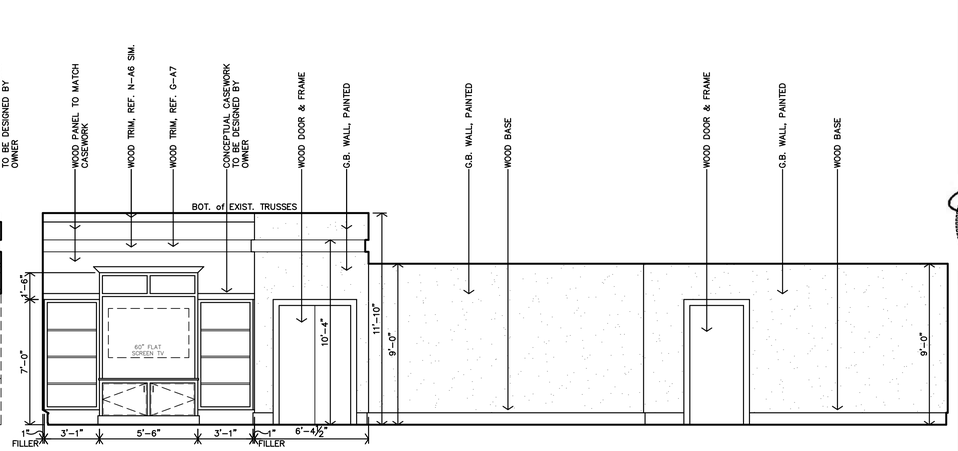
D APT. #1 DINING/LIVING RM/KITCHEN INTERIOR/CASEWORK ELEVATION
1/4"=1'-0"



C APT. #1 DINING/LIVING RM/KITCHEN INTERIOR/CASEWORK ELEVATION
1/4"=1'-0"



B APT. #1 DINING/LIVING RM/KITCHEN INTERIOR ELEVATION
1/4"=1'-0"



A APT. #1 DINING/LIVING RM/KITCHEN INTERIOR/CASEWORK ELEVATION
1/4"=1'-0"

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AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

STATE OF KANSAS
3382
9/22/2021
REGISTERED PROFESSIONAL ARCHITECT

DATE: 10-6-2021
JOB: 16-2765
SHEET: A5

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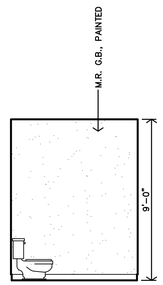
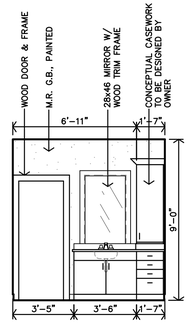
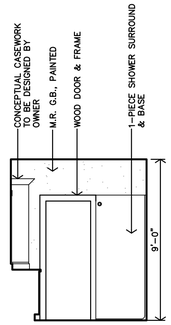


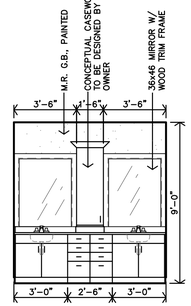
X BATHS #206 & #217 INTERIOR ELEVATION
1/4"=1'-0"



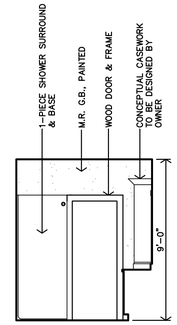
W BATHS #206 & #217 INTERIOR ELEVATION
1/4"=1'-0"



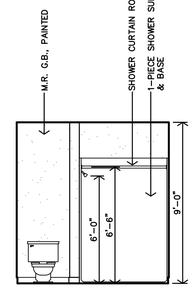
V BATHS #206 & #217 INTERIOR ELEVATION
1/4"=1'-0"



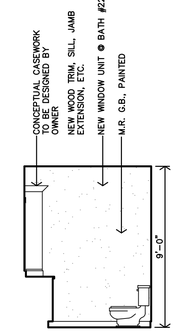
U BATHS #208 & #220 INTERIOR ELEVATION
1/4"=1'-0"



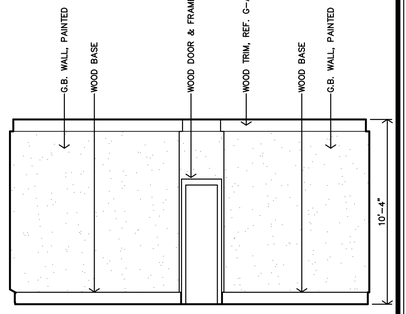
T BATHS #208 & #220 INTERIOR ELEVATION
1/4"=1'-0"



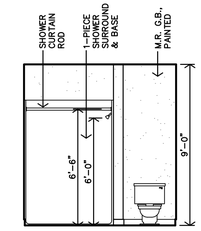
S BATHS #208 & #220 INTERIOR ELEVATION
1/4"=1'-0"



R BATHS #208 & #220 INTERIOR ELEVATION
1/4"=1'-0"



Q APT. #2 BEDROOM #223 INTERIOR ELEVATION
1/4"=1'-0"



Y BATHS #206 & #217 INTERIOR ELEVATION
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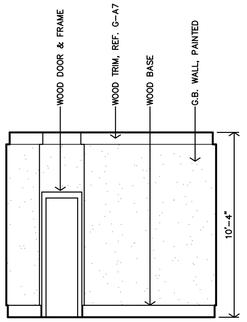

P APT. #2 BEDROOM #223 INTERIOR ELEVATION
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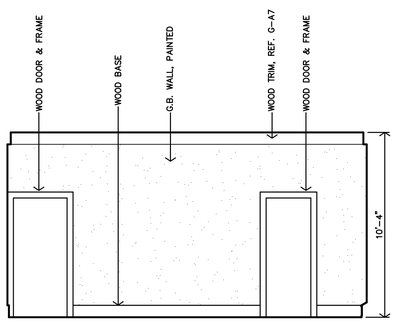

O APT. #2 BEDROOM #223 INTERIOR ELEVATION
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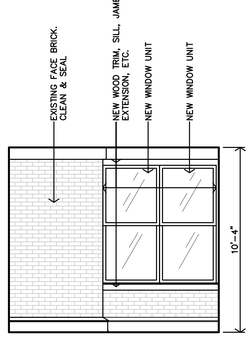

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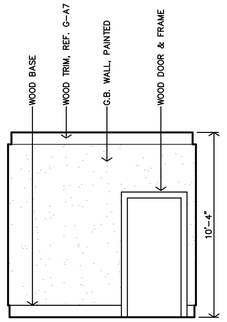
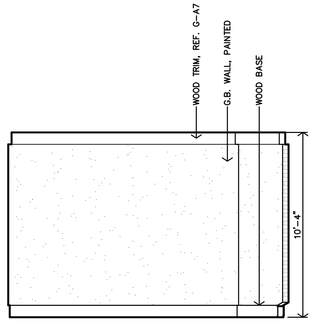
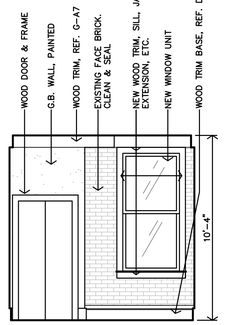


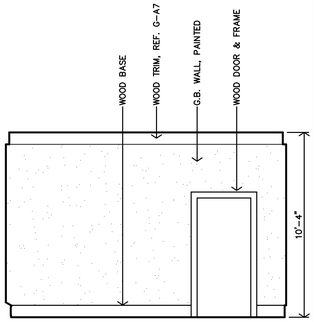
M APT. #2 BEDROOM #219 INTERIOR ELEVATION
1/4"=1'-0"



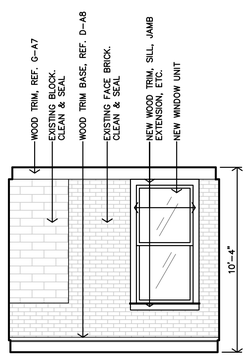
L APT. #2 BEDROOM #219 INTERIOR ELEVATION
1/4"=1'-0"



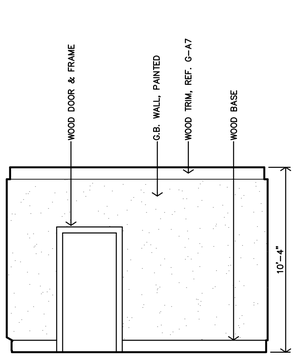
K APT. #2 BEDROOM #219 INTERIOR ELEVATION
1/4"=1'-0"



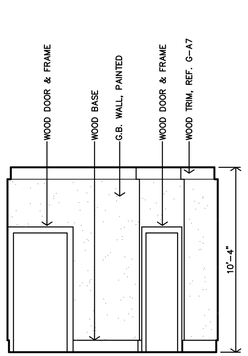
J APT. #2 BEDROOM #219 INTERIOR ELEVATION
1/4"=1'-0"



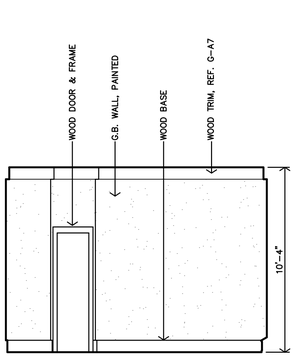
H APT. #1 BEDROOM #209 INTERIOR ELEVATION
1/4"=1'-0"



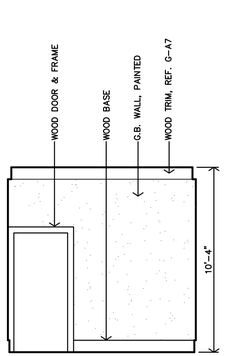
G APT. #1 BEDROOM #209 INTERIOR ELEVATION
1/4"=1'-0"



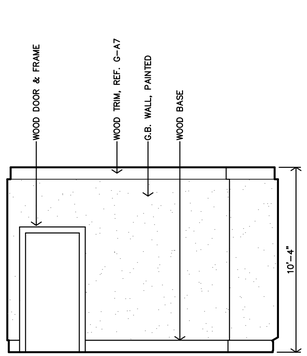
F APT. #1 BEDROOM #209 INTERIOR ELEVATION
1/4"=1'-0"



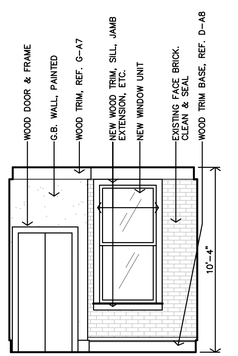
E APT. #1 BEDROOM #209 INTERIOR ELEVATION
1/4"=1'-0"



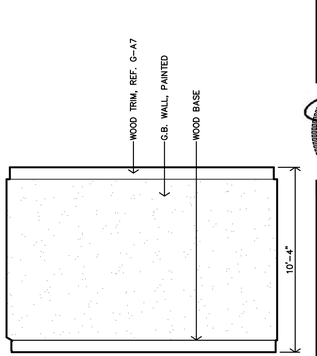
D APT. #1 BEDROOM #203 INTERIOR ELEVATION
1/4"=1'-0"



C APT. #1 BEDROOM #203 INTERIOR ELEVATION
1/4"=1'-0"



B APT. #1 BEDROOM #203 INTERIOR ELEVATION
1/4"=1'-0"



A APT. #1 BEDROOM #203 INTERIOR ELEVATION
1/4"=1'-0"

Architects Planners Designers
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Kansas City, MO 64108
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JONES GILLAM RENZ

AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

DATE: 10-6-2021

JOB: 16-2765

SHEET: A6

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REFLECTED CEILING PLAN NOTES

1. CONTRACTOR SHALL COORDINATE CEILING LAYOUT W/ MECHANICAL AND ELECTRICAL FIXTURE LOCATIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT OR DISCREPANCY.
2. MECHANICAL/ELECTRICAL: FIXTURES ⊘ ALL CEILINGS SHALL BE HUNG IN CONFORMANCE TO U.L. AND MANUFACTURER'S SYSTEM REQUIREMENTS.
3. CEILING MOUNTED MECHANICAL EQUIPMENT AND SUSPENDED MECHANICAL EQUIPMENT MUST BE SUSPENDED DIRECTLY FROM THE STRUCTURE.
4. SPECIAL CEILING FRAMING MAY BE REQUIRED AT SOME CEILING MOUNTED MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE W/ MECHANICAL UNITS AND PROVIDED ALL SUSPENSION, TRIM, CLIPS, ETC. AS REQUIRED FOR A NEAT, FINISHED, AND SECURE CEILING SYSTEM.
5. WHERE SUSPENSION DEVICES, WIRES, RODS, ETC. PENETRATE CEILING G.B. OR WALL PENETRATIONS SHALL BE NEAT AND CLEANLY CUT. PENETRATION OPENING SHALL BE AS SMALL AS POSSIBLE. SEAL AT G.B.

NON-RATED WALLS – EXTEND TO BOTTOM OF JOIST OR TRUSS

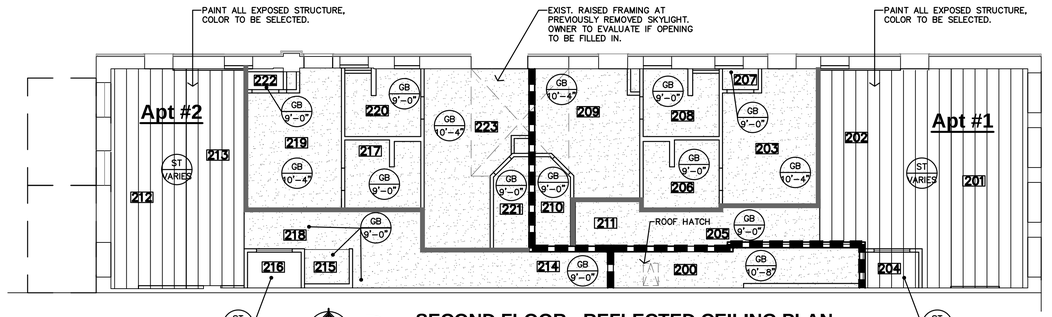
1-HOUR RATED WALL

FULL HEIGHT WALL

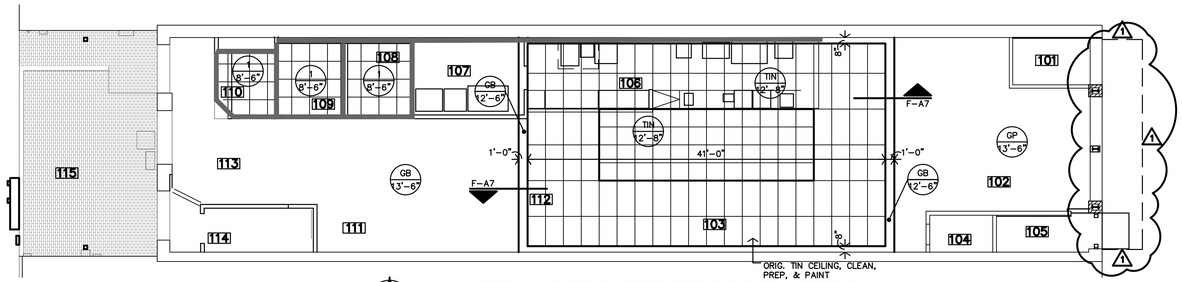
SEAL VOIDS AT TOPS OF WALLS AND PENETRATIONS W/ U.L. LISTED FIRE BATT INSULATION, PILLOWS, AND/OR FIRE SEALANT AS REQUIRED BY CONDITION AT RATED WALLS.

CEILING TYPES	
REFER SPECIFICATIONS	
1	ACOUS SUSP
GB	SUSPENDED GYP BD
ST	STRUCTURE EXPOSED

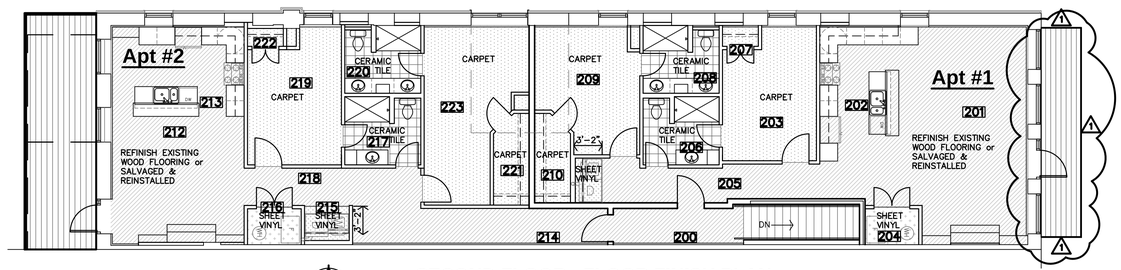
1 / 8'-6" — CLG. TYPE / CLG. HEIGHT



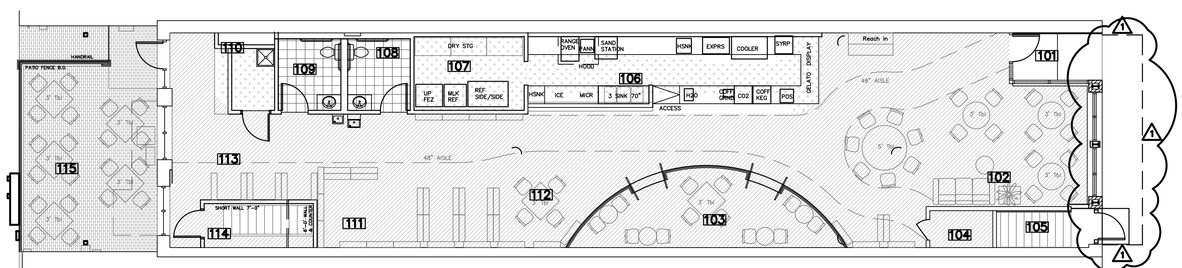
D SECOND FLOOR - REFLECTED CEILING PLAN
1/8"=1'-0"



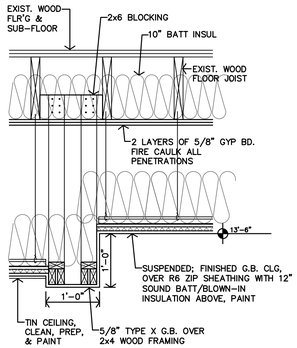
C FIRST FLOOR - REFLECTED CEILING PLAN
1/8"=1'-0"



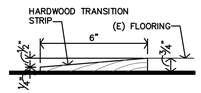
B SECOND FLOOR - FLOOR FINISH PLAN
1/8"=1'-0"



A FIRST FLOOR - FLOOR FINISH PLAN
1/8"=1'-0"



F CEILING DETAIL
3"=1'-0"



E TRANSITION DETAIL
3"=1'-0"

Architects Planners Designers
730 N. Ninth
P.O. BOX 2928
Salina, KS 67402
785.827.0386
1722 Main Street,
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AD ASTRA & APARTMENTS

135 N. SANTA FE

SALINA, KANSAS

REVISION:
1 10-26-2021

DATE: 10-6-2021

JOB: 16-2765

SHEET: A7

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INTERIOR FINISH SCHEDULE

FINISHES & INSTRUCTIONS

P1 – LATEX ENAMEL SV – SHEET VINYL CT – CERAMIC TILE C1 – CARPET #1 SL – SEAL T – TEXTURED
P2 – EPOXY PAINT STN – STAIN CON – CONCRETE C2 – CARPET #2 S – SMOOTH LIGHT KNOCKDOWN

	NO.	DESCRIPTION	FLOOR: WOOD FLOOR	FLOOR: CARPET	FLOOR: CERAMIC TILE	FLOOR: SHEET VINYL	BASE: CONCRETE	BASE: WOOD (REF. D-A6)	N.WALL: 1/2" TYPE X G.B.	N.WALL: 1/2" TYPE X M.R. G.B.	N.WALL: EXPOSED MASONRY	E.WALL: 1/2" TYPE X G.B.	E.WALL: 1/2" TYPE X M.R. G.B.	E.WALL: EXPOSED MASONRY	S.WALL: 1/2" TYPE X G.B.	S.WALL: 1/2" TYPE X M.R. G.B.	S.WALL: EXPOSED MASONRY	W.WALL: 1/2" TYPE X G.B.	W.WALL: 1/2" TYPE X M.R. G.B.	W.WALL: EXPOSED MASONRY	CEILING: 1/2" TYPE X G.B.	CEILING: STRUCTURE PAINT TBS	CEILING: SUSPENDED (REF. CLG PLAN)	HGT.	NOTES
FIRST FLOOR	101	ENTRY					CON				SL			SL			SL			SL			●	13'-6"	
	102	SEATING	STN					STN		SL				SL	P1/T					SL			●	13'-6"	
	103	STAGE	STN					STN	P1/T					SL			SL	P1/T					●	13'-6"	
	104	STORAGE	STN					STN	P1/T			P1/T					SL	P1/T					●	13'-6"	
	105	STAIR					CON	STN	P1/T					SL			SL	P1/T					●	13'-6"	
	106	SERVICE				SV		STN	P1/T					SL			SL	P1/T					●	13'-6"	
	107	PANTRY				SV		STN	P1/T						P1/T			P1/T					●	13'-6"	
	108	RESTROOM			CT			STN	P1/T			P1/T			P1/T			P1/T					P1/T	13'-6"	
	109	RESTROOM			CT			STN	P1/T			P1/T			P1/T			P1/T					P1/T	13'-6"	
	110	JANITOR			CT			STN	P1/T			P1/T			P1/T			P1/T					P1/T	13'-6"	
	111	KIDS	STN					STN	P1/T			P1/T					SL	P1/T					●	13'-6"	
	112	SEATING	STN					STN	P1/T					SL			SL	P1/T					●	13'-6"	
	113	BACK AREA	STN					STN		SL		P1/T			P1/T					SL			●	13'-6"	
	114	STAIR	STN					STN	P1/T			P1/T					SL			SL			●	13'-6"	
	115	PATIO					CON			SL			SL				SL							10'-8"	
APARTMENT #1	200	HALL/STAIR	STN					STN	P1/T			P1/T					SL	P1/T			P1/S			10'-8"	
	201	DINING/LIVING ROOM	STN					STN		SL			SL			SL		P1/T				P1		STRUCT.	
	202	KITCHEN	STN					STN	P1/T			P1/T			P1/T			P1/T				P1		STRUCT.	
	203	BEDROOM		C1				STN	P1/T		SL	P1/T			P1/T			P1/T			P1/S			10'-8"	
	204	MECHANICAL				SV		STN	P1			P1			P1			P1			P1/S			9'-0"	
	205	HALL	STN					STN	P1/T			P1/T			P1/T			P1/T				P1		STRUCT.	
	206	BATH			CT			STN		P1/T			P1/T			P1/T			P1/T		P1/S			9'-0"	
	207	CLOSET		C1				STN	P1/T			P1/T			P1/T			P1/T			P1/S			9'-0"	
	208	BATH			CT			STN		P1/T			P1/T			P1/T			P1/T		P1/S			9'-0"	
	209	BEDROOM		C1				STN	P1/T		SL	P1/T			P1/T			P1/T			P1/S			10'-8"	
	210	CLOSET		C1				STN	P1/T			P1/T			P1/T			P1/T			P1/S			9'-0"	
	211	LAUNDRY				SV		STN	P1/T			P1/T			P1/T			P1/T			P1/S			9'-0"	
APARTMENT #2	212	DINING/LIVING ROOM	STN					STN		SL			SL			SL		P1/T				P1		STRUCT.	
	213	KITCHEN	STN					STN	P1/T			P1/T			P1/T			P1/T				P1		STRUCT.	
	214	HALL	STN					STN	P1/T			P1/T					SL	P1/T			P1/S			9'-0"	
	215	LAUNDRY				SV		STN	P1/T			P1/T			P1/T			P1/T			P1/S			9'-0"	
	216	MECHANICAL				SV		STN	P1			P1			P1			P1			P1/S			9'-0"	
	217	BATH			CT			STN		P1/T			P1/T			P1/T			P1/T		P1/S			9'-0"	
	218	HALL	STN					STN	P1/T			P1/T			P1/T			P1/T				P1		STRUCT.	
	219	BEDROOM		C1				STN	P1/T		SL	P1/T			P1/T			P1/T			P1/S			10'-8"	
	220	BATH			CT			STN		P1/T			P1/T			P1/T			P1/T		P1/S			9'-0"	
	221	CLOSET		C1				STN	P1/T			P1/T			P1/T			P1/T			P1/S			9'-0"	
	222	CLOSET		C1				STN	P1/T			P1/T			P1/T			P1/T			P1/S			9'-0"	
	223	BEDROOM		C1				STN	P1/T			P1/T					SL	P1/T		SL	P1/S			10'-8"	

NOTE:
1. INSTALL 1/2" TYPE X M.R G.B. ❂ ALL WET AREAS.
2. REFINISH EXISTING or SALVAGED & REINSTALLED WOOD FLOORING.

WINDOW SCHEDULE

MARK	SIZE W	SIZE H	STYLE	SINGLE-HUNG	FIXED TRANSOM	1" INSULATED	DETAILS
A	4'-5 1/2"	8'-11 1/2"	ALUM. CLAD WOOD	●	●	●	J/K-A8
B	3'-2"	6'-7"	ALUM. CLAD WOOD	●		●	J/K-A8
C	6'-4"	6'-7"	ALUM. CLAD WOOD	●		●	J/K-A8
D	3'-11 1/2"	6'-7"	ALUM. CLAD WOOD	●		●	J/K-A8
E	4'-5"	2'-0"	ALUM. CLAD WOOD	●		●	J/K-A8
F	8'-8"	7'-4"	ALUM. CLAD WOOD		●	●	J/K-A8 SIM
G	5'-3"	8'-10 1/2"	ALUM. CLAD WOOD		●	●	J/K-A8 SIM
H	5'-6"	10'-6 1/2"	ALUM. CLAD WOOD	●		●	J/K-A8 SIM
I	5'-7"	9'-7"	ALUM. CLAD WOOD		●	●	J/K-A8
J	5'-7"	12'-1"	ALUM. CLAD WOOD		●	●	J/K-A8 SIM
K	3'-10 1/2"	6'-7"	ALUM. CLAD WOOD	●		●	J/K-A8
L	3'-10 1/2"	9'-4"	ALUM. CLAD WOOD		●	●	J/K-A8 SIM
M	4'-5 1/2"	10'-10"	ALUM. CLAD WOOD		●	●	J/K-A8 SIM

NOTES:
1. CONTRACTOR MUST INSTALL MTL. FLASHINGS & CAULK FOR A WEATHER & WATERTIGHT CONDITIONS ❂ ALL EXTERIOR WINDOW UNITS.
2. CONTRACTOR MUST INSTALL 1/4" INSUL. OR THERMAL BREAK. CONTINUOUS AROUND WINDOW.

DOOR SCHEDULE

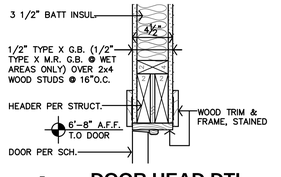
FIRST FLOOR

MARK	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MATERIAL S.C. WOOD	DOOR MATERIAL HOLLOW MTL.	DOOR MATERIAL ALUMINUM	DOOR TYPE	FRAME MATERIAL WOOD	FRAME MATERIAL HOLLOW MTL.	FRAME MATERIAL ALUMINUM	FRAME TYPE	DETAILS	RATING	REMARKS
10	3'-0"	7'-0"	1 3/4"			●	F			●	3	F/G-A8		
11	3'-0"	7'-0"	1 3/4"			●	F			●	3	F/G-A8		
12	3'-0"	6'-8"	1 3/4"	●			A	●			2	H/I-A8		
13	3'-0"	6'-8"	1 3/4"	●			A	●			2	H/I-A8		
14	3'-0"	6'-8"	1 3/4"	●			A	●			2	H/I-A8		
15	3'-0"	6'-8"	1 3/4"	●			A	●			2	H/I-A8		
16	3'-0"	7'-0"	1 3/4"			●	F			●	3	F/G-A8		
17	3'-0"	6'-8"	1 3/4"	●			A	●			2	H/I-A8		

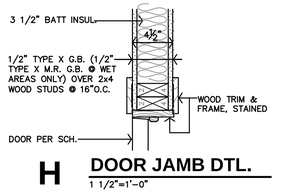
SECOND FLOOR

MARK	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MATERIAL S.C. WOOD	DOOR MATERIAL HOLLOW MTL.	DOOR MATERIAL ALUMINUM	DOOR TYPE	FRAME MATERIAL WOOD	FRAME MATERIAL HOLLOW MTL.	FRAME MATERIAL ALUMINUM	FRAME TYPE	DETAILS	RATING	REMARKS
1	3'-0"	6'-8"	1 3/4"		●		A		●		1	F/G-A8	60min	1,2
2	3'-0"	6'-8"	1 3/4"	●			A	●			2	H/I-A8		
3	2'-6"	6'-8"	1 3/4"	●			B	●			2	H/I-A8		
4	PR1'-6"	6'-8"	1 3/4"	●			C	●			2	H/I-A8		
5	PR2'-0"	6'-8"	1 3/4"	●			D	●			2	H/I-A8		
6	3'-0"	7'-0"	1 3/4"			●	G			●	1	F/G-A8		

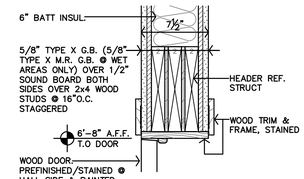
NOTES
1. RATED DOORS SHALL BE EQUIPPED WITH SELF CLOSING HARDWARE, POSITIVE LATCHING LATCHSETS, AND SMOKE GASKET AS REQUIRED FOR FIRE RATED ASSEMBLY.
2. OWNERS OPTION: WOOD or METAL DOOR. DOORS AT MAIN HALLWAY SHALL BE CAPABLE OF PREVENTING THE PASSAGE OF SMOKE AND THE IDENTIFIED FIRE RATING IS MET WHERE REQUIRED.



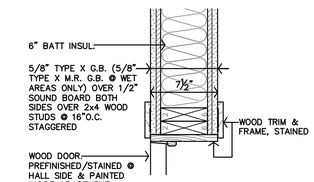
I DOOR HEAD DTL.
1 1/2"=1'-0"



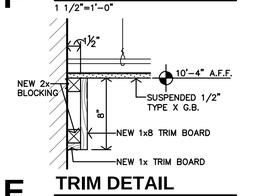
H DOOR JAMB DTL.
1 1/2"=1'-0"



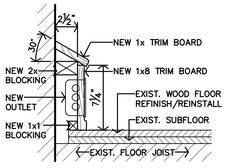
G DOOR HEAD DTL.
1 1/2"=1'-0"



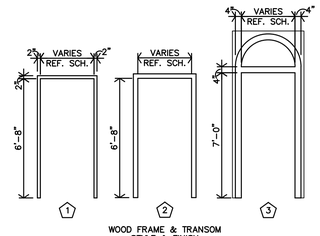
F DOOR JAMB DTL.
1 1/2"=1'-0"



E TRIM DETAIL
1/4"=1'-0"



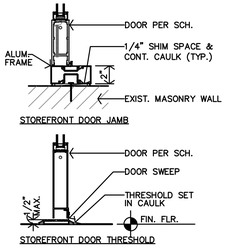
D BASE DETAIL
1/4"=1'-0"



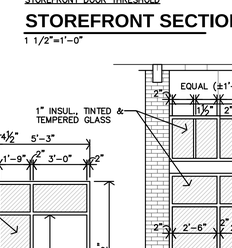
WOOD FRAME & TRANSOM STYLE & FINISH TO BE SELECTED BY OWNER

C DOOR FRAME TYPES
1/4"=1'-0"

STOREFRONT DOOR HEAD/TRANSOM (JAMB SIMILAR)



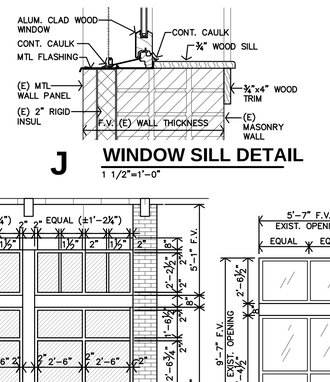
K WINDOW HEAD DETAIL
1 1/2"=1'-0" JAMB DETAIL



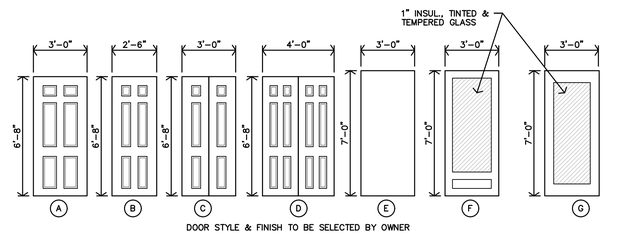
STOREFRONT DOOR JAMB

STOREFRONT DOOR THRESHOLD

L STOREFRONT SECTION
1 1/2"=1'-0"

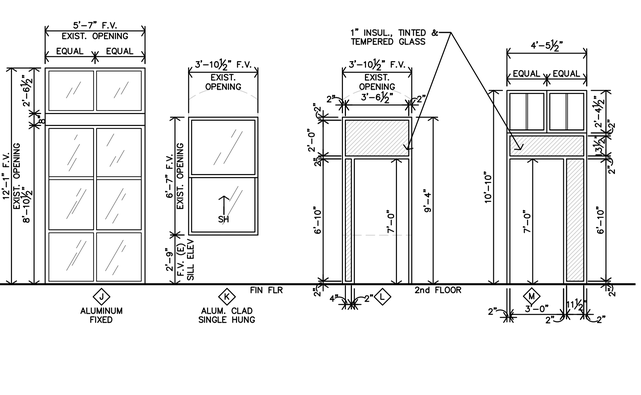


J WINDOW SILL DETAIL
1 1/2"=1'-0"



DOOR STYLE & FINISH TO BE SELECTED BY OWNER

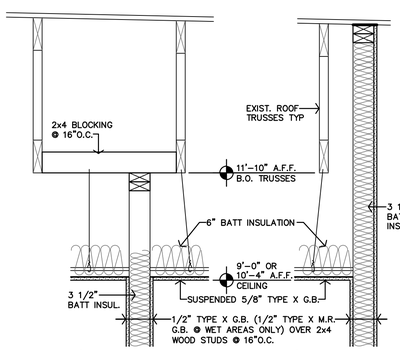
B DOOR TYPES
1/4"=1'-0"



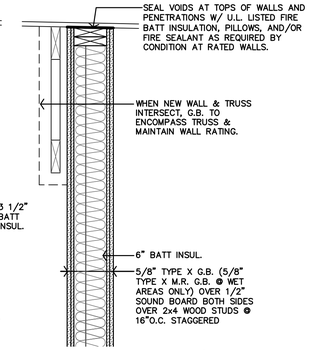
A	WOOD SINGLE HUNG/TRANSOM	G	FIXED STOREFRONT
B	ALUM. CLAD SINGLE HUNG	H	ALUMINUM FIXED
C	ALUM. CLAD SINGLE HUNG	I	ALUMINUM FIXED
D	ALUM. CLAD SINGLE HUNG	J	ALUMINUM FIXED
E	ALUM. CLAD SINGLE HUNG	K	ALUM. CLAD SINGLE HUNG
F	FIXED STOREFRONT	L	2nd FLOOR

A WINDOW SCHEDULE
1/4"=1'-0"

N NON-FULL HEIGHT WALLS
1"=1'-0"



M FULL HEIGHT WALLS
1"=1'-0"



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SALINA, KANSAS

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SHEET: A8

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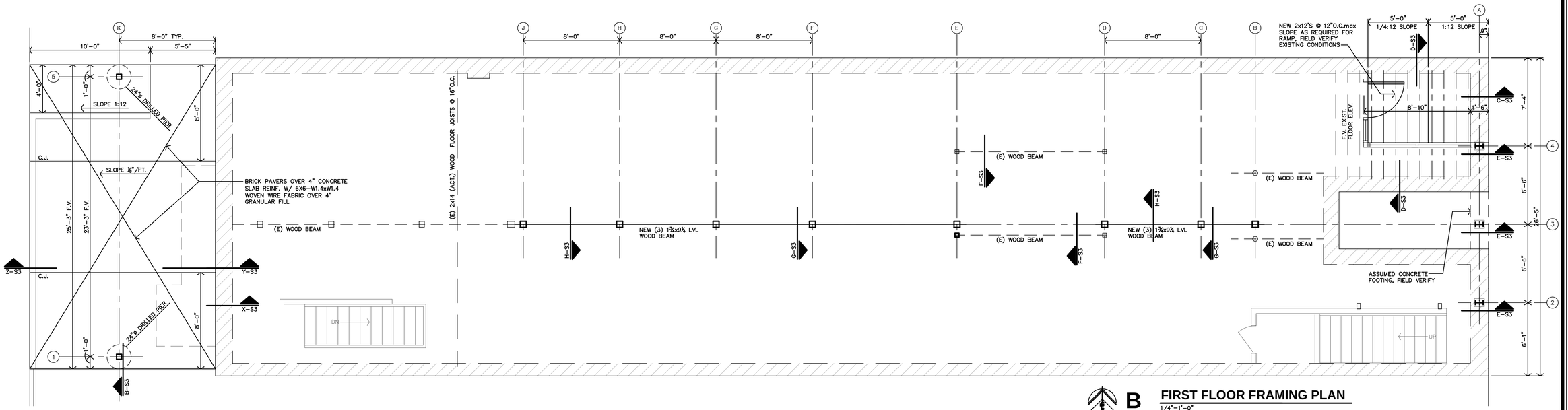
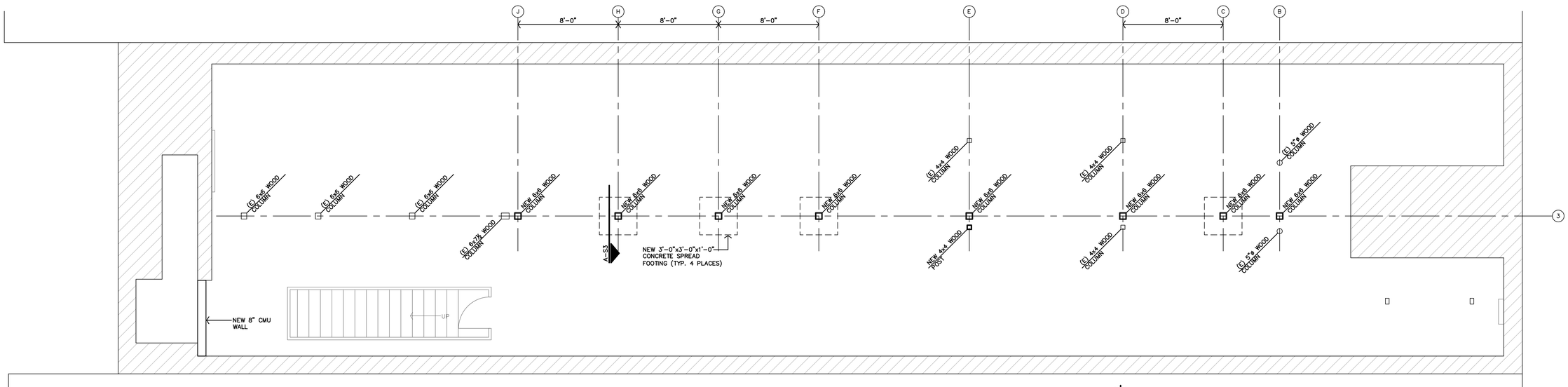


B FIRST FLOOR FRAMING PLAN
1/4"=1'-0"



A BASEMENT FOUNDATION PLAN
1/4"=1'-0"

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DATE: 10-6-2021

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SHEET:

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S1

GENERAL NOTES

ALL NOTES HEREAFTER ARE TYPICALLY APPLICABLE UNLESS NOTED OTHERWISE

DESIGN BASIS: IBC 2012

GOVERNING CODE: 2012 INTERNATIONAL BUILDING CODE
RISK CATEGORY: II
DESIGN LIVE LOADS:
FIRST (MAIN) FLOOR: 100 PSF
SECOND FLOOR: 40 PSF
DESIGN SOIL PRESSURE (MAX): 1500 PSF

GENERAL:

G1. GENERAL CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR APPROVAL. ALL NEW AND REVISED INFORMATION ON RESUBMITTALS SHALL BE CLOUDED.
G2. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECT'S PLANS AND REPORT ANY DEVIATIONS TO THE ARCHITECT BEFORE STARTING WORK.
G3. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, ETC. AND OTHER METHODS TO PREVENT EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THESE PROVISIONS TO REMAIN IN PLACE UNTIL SUFFICIENT PERMANENT MEMBERS ARE CONSTRUCTED TO ENSURE THE SAFETY OF THE STRUCTURE.
G4. PLAN FINISH FLOOR ELEVATION 100'-0" EQUALS THE FIRST FLOOR ELEVATION.
G5. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS TO EXISTING CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT OR ENGINEER WITH ANY DISCREPANCIES BEFORE PROCEEDING.

CONCRETE:

C1. ALL CONCRETE TO HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (f'c) OF 3500 PSI AT 28 DAYS.
C2. ALL CONCRETE SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
C3. PORTLAND CEMENT SHALL COMPLY WITH ASTM C 150, TYPE I OR III.
C4. ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL COMPLY WITH ASTM C33.
C5. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GR. 60, ALL WELDED WIRE FABRIC (WWF) SHALL COMPLY WITH ASTM A185.
C6. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED PER C.R.S.I. AND A.C.I. INCLUDING CONCRETE COVER AND BAR SUPPORTS. PROVIDE CORNER BARS AT ALL FOOTING AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING IN SIZE AND SPACING. LAP BARS AT ALL SPLICES 40 BAR DIAMETERS (2'-0" MINIMUM) INCLUDING CORNER BARS AND DOWELS.
C7. ALL CONCRETE EXPOSED TO THE ELEMENTS AND CONCRETE SLABS SHALL CONTAIN 5% TO 7% ENTRAINED AIR.
C8. CONCRETE PROTECTION FOR REINFORCING: 3" AT FOOTINGS AND GRADE BEAMS; 2" AT FORMED SURFACES LATER EXPOSED TO SOIL; 1 1/2" AT BEAMS, COLUMNS AND WALLS; 3/4" AT SLABS.
C9. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.
C10. DOWELS SHALL BE TIED INTO POSITION BEFORE PLACING CONCRETE. INSERTING DOWELS INTO FRESHLY OR PARTIALLY HARDENED CONCRETE IS NOT ALLOWED.
C11. ADDITION OF MIXING WATER AT THE JOBSITE TO IMPROVE SLUMP WILL NOT BE ALLOWED.
C12. HOT AND COLD WEATHER REQUIREMENTS IN ACCORDANCE WITH ACI SHALL BE FOLLOWED.
C13. ANCHOR BOLTS SHALL BE ACCURATELY SET WITH TEMPLATES. INSERTING ANCHOR BOLTS INTO FRESHLY PLACED CONCRETE IS PROHIBITED.
C14. CONCRETE ANCHORS SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS.
C15. CURE CONCRETE IN ACCORDANCE WITH ACI'S "MANUAL OF CONCRETE PRACTICE"

STEEL:

S1. STRUCTURAL STEEL SHALL MEET THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
S2. ALL STRUCTURAL STEEL WIDE FLANGE BEAMS SHALL MEET ASTM A992 (Fy=50 KSI). ALL TUBES TO MEET ASTM A500 GR. B (Fy=46 KSI). ALL PIPES TO MEET ASTM A53, TYPE E OR S, GRADE B (Fy=35 KSI). ALL STEEL PLATES, CHANNELS, AND ANGLES TO MEET ASTM A36 (Fy=36 KSI).
S3. ALL BOLTS ARE A325N HI-STRENGTH UNLESS NOTED OTHERWISE, WITH WASHERS AS REQUIRED (EXCEPT ANCHOR BOLTS SHALL COMPLY WITH ASTM F1554, Fy=36 KSI).
S4. WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION "STRUCTURAL WELDING CODE – STEEL" D1.1:2008.
S5. ALL FIELD AND SHOP WELDS TO BE 3/16" FILLET WELDS MINIMUM UNLESS NOTED OTHERWISE.
S6. USE E70XX ELECTRODES AT ALL FIELD WELDS.
S7. ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS REQUIRED.
S8. NO OPENINGS TO BE PLACED IN BEAM WEBS OR FLANGES WITHOUT ENGINEER'S APPROVAL.
S9. NO SUBSTITUTION OF MEMBERS WITHOUT ENGINEER'S APPROVAL.

WOOD:

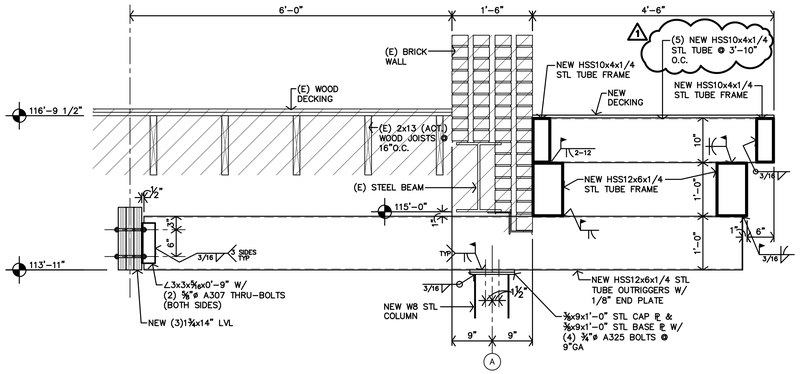
W1. COLUMNS, STUDS, AND PLATESZ: SPRUCE, PINE, AND FIR (SPF) #2 OR BETTER
W2. HANGERS, CLIPS, AND TIES BY THE SIMPSON STRONG-TIE COMPANY INC. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
W3. FOR MINIMUM NAILING REQUIREMENTS, SEE TABLE R602.3(1) FASTENING SCHEDULE FOR STRUCTURAL MEMBERS FROM THE INTERNATIONAL BUILDING CODE.
W4. STRUCTURAL COMPOSITE MEMBERS (LVL) BY TRUSS JOIST WEYERHAEUSER MICROLLAM OR APPROVED EQUAL.

SPECIAL INSPECTIONS:

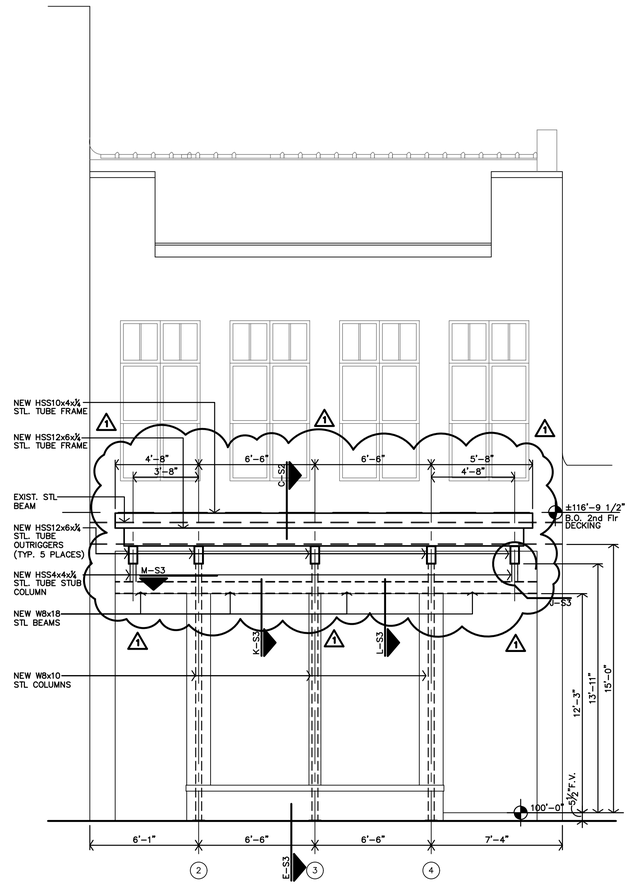
SP1. THE FOLLOWING PERIODIC SPECIAL INSPECTIONS ARE REQUIRED:
A. CONCRETE:
1. PLACEMENT AND SIZE OF REINFORCING STEEL
2. VERIFYING USE OF PROPER DESIGN MIX
B. STEEL
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS
2. BEARING TYPE CONNECTIONS
3. SINGLE PASS FILLET WELDS EQUAL TO OR LESS THAN 5/16"
SP2. THE FOLLOWING CONTINUOUS SPECIAL INSPECTIONS ARE RQUIRED:
A. CONCRETE: AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR-CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
B. STEEL:
1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS
2. MULTI PASS FILLET WELDS
3. SINGLE PASS FILLET WELDS GREATER THAN 5/16".

ABBREVIATIONS:

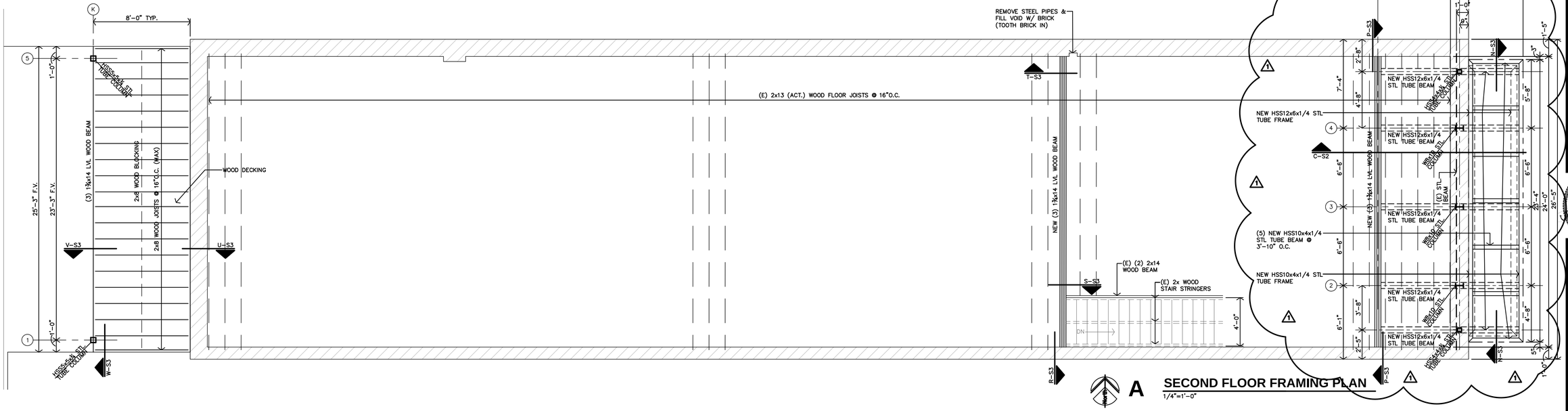
UNO = UNLESS NOTED OTHERWISE
OSB = ORIENTED STRAND BOARD SHEATHING
IBC = INTERNATIONAL BUILDING CODE
PAF = POWDER ACTIVATED FASTENERS
BLKG = BLOCKING
F.F.E. = FINISH FLOOR ELEVATION
T.O. = TOP OF
B.O. = BOTTOM OF
WD = WOOD
EA = EACH
BETWN = BETWEEN
PLYWD = PLYWOOD
O.C. = ON CENTERS
HD = HOLDDOWN
CONT. = CONTINUOUS



C **SECTION**
3/4"=1'-0"



B **ELEVATION VIEW @ ENTRANCE**
1/4"=1'-0"



A **SECOND FLOOR FRAMING PLAN**
1/4"=1'-0"

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REVISION:
1 10-26-2021
DATE: 10-6-2021
JOB: 16-2765
SHEET: S2

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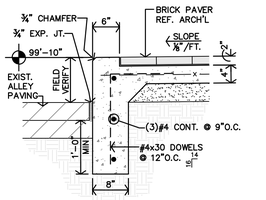
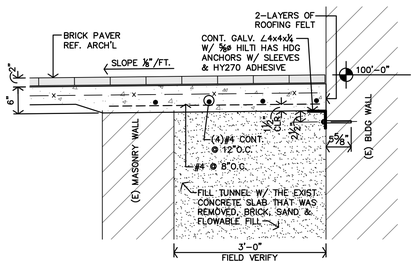
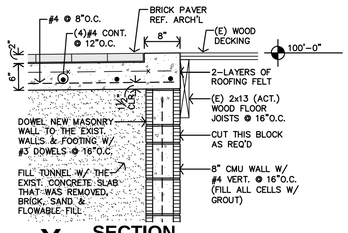


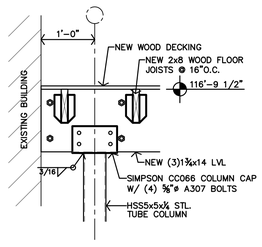
Z SECTION
3/4"=1'-0"



Y SECTION
3/4"=1'-0"



X SECTION
3/4"=1'-0"



W SECTION
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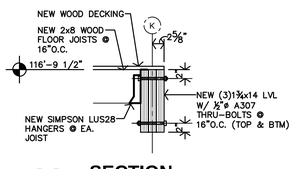

V SECTION
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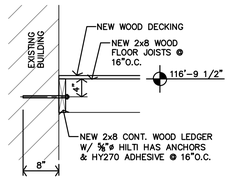

U SECTION
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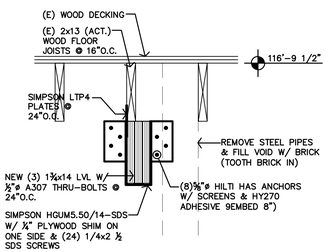

T SECTION
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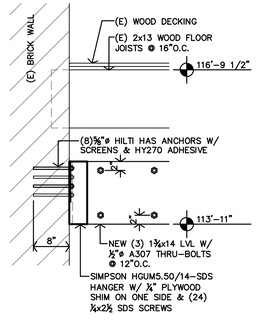
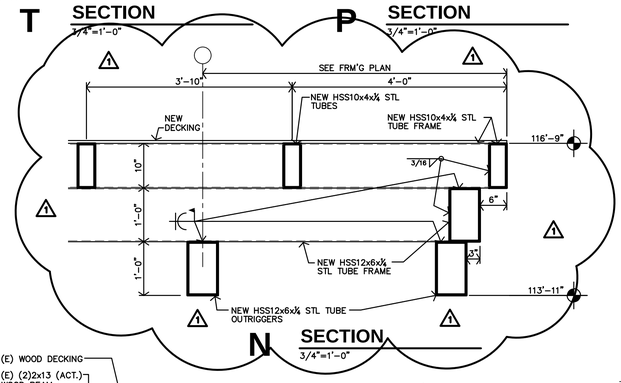


P SECTION
3/4"=1'-0"



N SECTION
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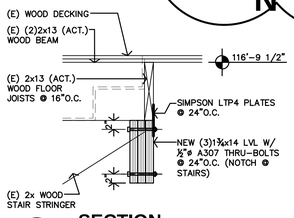
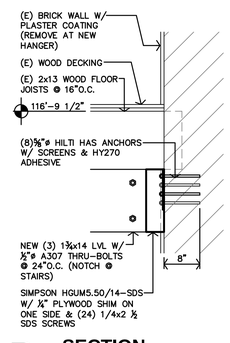
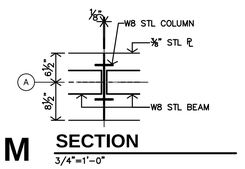


S SECTION
3/4"=1'-0"



R SECTION
3/4"=1'-0"



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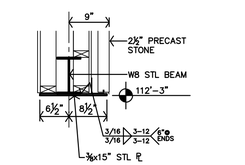

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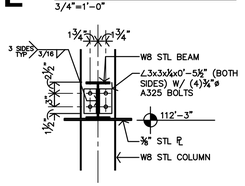

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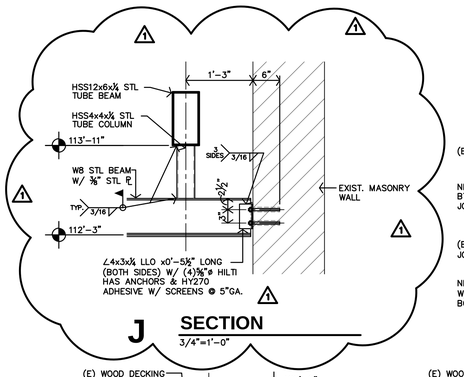

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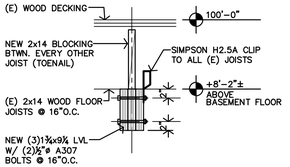

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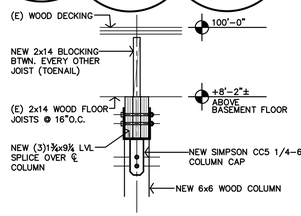

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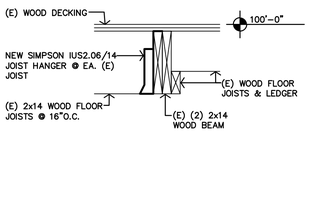

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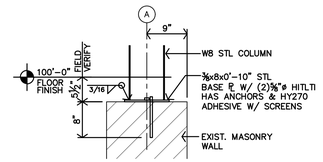

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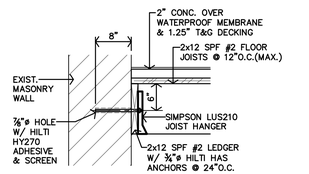

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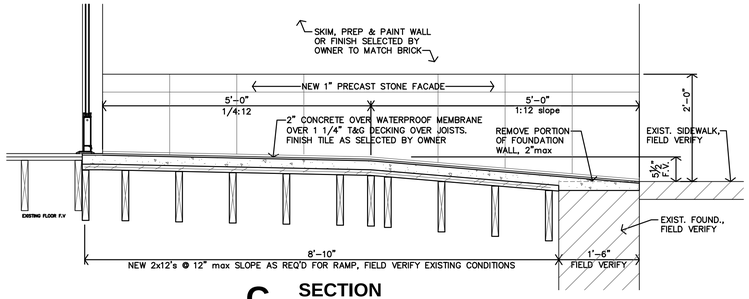

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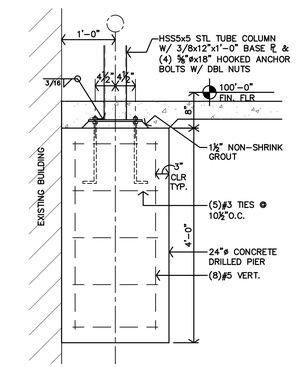

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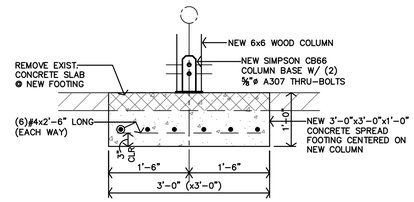

A SECTION
3/4"=1'-0"

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PROFESSIONAL ENGINEER

REVISION:
⚠1 10-26-2021
DATE: 10-6-2021
JOB: 16-2765
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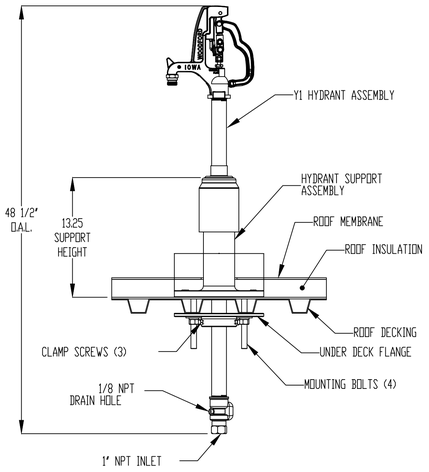
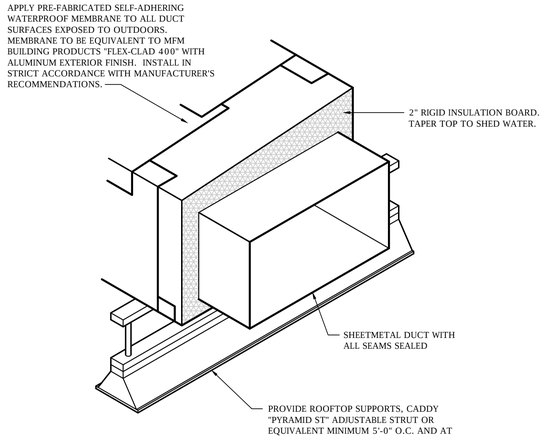
Project 21064 October 2021



3 ROOF HYDRANT DETAIL

NO SCALE

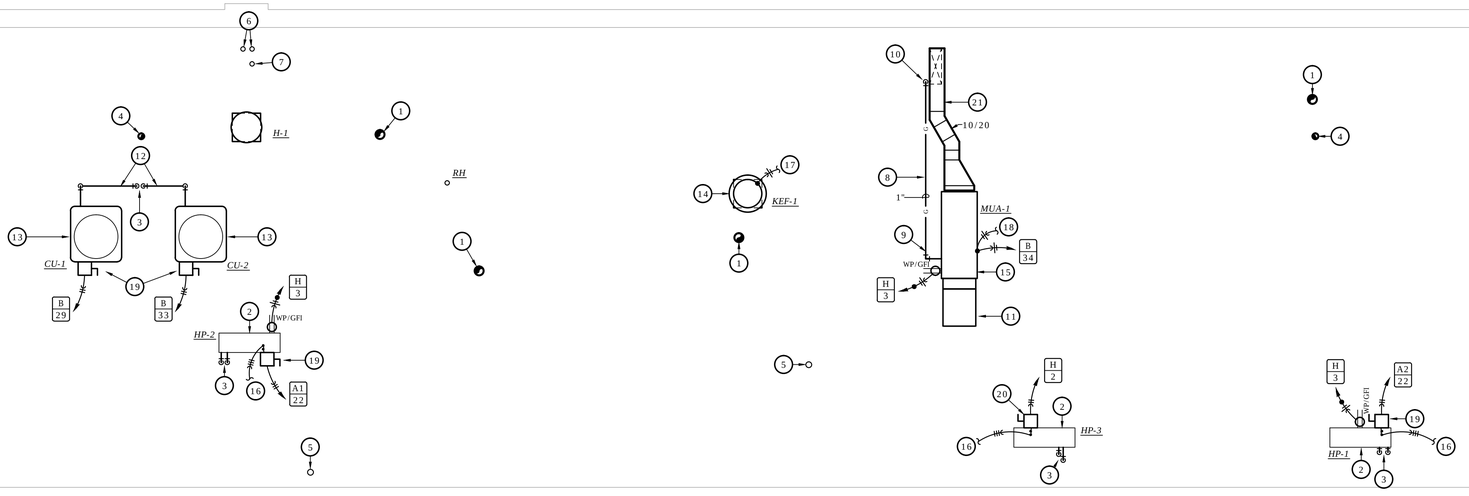


2 EXTERIOR DUCT INSTALLATION DETAIL

NO SCALE

NOTES BY SYMBOL

1. PROVIDE ROOF CAP FOR 6"Ï EXHAUST DUCT FROM EXHAUST FAN. PROVIDE 12" HIGH INSULATED ROOF CURB COMPATIBLE WITH ROOF CONSTRUCTION. COORDINATE ROOF CAP INSTALLATION WITH G.C.
2. INSTALL HEAT PUMP ON ROOF AS CLOSE AS POSSIBLE TO INDOOR UNITS BEING SERVED. MAINTAIN ALL REQUIRED CLEARANCES. MOUNT HEAT PUMP ON PRE-FABRICATED METAL STAND EQUAL TO QUICK SLING. COORDINATE WITH G.C.
3. REFRIGERANT PIPING DOWN THROUGH ROOF, PROVIDE ROOF CURB AT REFRIGERANT PIPING PENETRATION. PROVIDE PIPING PENETRATION ASSEMBLY EQUAL TO RPH AW SERIES ROOF VAULT WITH EXIT SEALS FOR REFRIGERANT PIPING AND ELECTRICAL CONDUIT AND TWO ADDITIONAL SPARE EXIT SEALS. SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION.
4. PROVIDE MANUFACTURER'S ROOF JACK FOR 4" DUCT FROM MICROWAVE/HOOD COMBO. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE 12" HIGH INSULATED ROOF CURB COMPATIBLE WITH ROOF CONSTRUCTION. COORDINATE WITH G.C.
5. PROVIDE ROOF CAP WITH BACKDRAFT DAMPER FOR DRYER EXHAUST. SEE SHEET M2 FOR MORE DETAIL. PROVIDE 12" HIGH INSULATED ROOF CURB COMPATIBLE WITH ROOF CONSTRUCTION.
6. FURNACE INTAKE AND VENT CONCENTRIC VENT ROOF TERMINATION. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SEE M2 FOR CONTINUATION. PROVIDE PIPE CURB AT ROOF PENETRATION, COORDINATE WITH G.C.
7. WATER HEATER INTAKE AND VENT CONCENTRIC VENT ROOF TERMINATION. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. SEE M2 FOR CONTINUATION. PROVIDE PIPE CURB AT ROOF PENETRATION, COORDINATE WITH G.C.
8. SUPPORT GAS PIPING ON ROOF WITH PRE-FABRICATED ROOF TOP SUPPORTS, ERICO PYRAMID OR EQUIVALENT.
9. CONNECT GAS TO MAKE-UP AIR UNIT. PROVIDE GAS COCK, UNION, AND DIRT LEG.
10. ROUTE GAS PIPING IN CHASE DOWN TO FIRST FLOOR. PROVIDE PIPING PENETRATION ASSEMBLY EQUAL TO RPH AW SERIES ROOF VAULT WITH EXIT SEALS FOR GAS PIPING AND ELECTRICAL CONDUIT AND TWO ADDITIONAL SPARE EXIT SEALS. SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION.
11. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM ALL EXHAUST OPENINGS.
12. SUPPORT REFRIGERANT PIPING ON ROOF WITH PRE-FABRICATED ROOF TOP SUPPORTS, ERICO PYRAMID OR EQUAL.
13. MOUNT CONDENSING UNIT ON ROOF TOP EQUIPMENT RAILS FLASHED INTO ROOF. COORDINATE REQUIREMENTS WITH G.C.
14. INSTALL KITCHEN EXHAUST FAN PER MANUFACTURER'S INSTRUCTIONS. SEE SHEET M8 FOR MORE INFORMATION.
15. INSTALL MAKE-UP AIR UNIT PER MANUFACTURER'S INSTRUCTIONS, SEE SHEET M9 FOR MORE INFORMATION.
16. EXTEND POWER AND CONTROL CIRCUITRY FROM HEAT PUMP TO CORRESPONDING INDOOR UNITS. SEE SHEET E3 FOR CONTINUATION.
17. ROUTE CIRCUIT FOR KITCHEN HOOD EXHAUST FAN THROUGH CONTROL CABINET PER HOOD MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE SHEET E1 FOR CONTINUATION.
18. PROVIDE CONTROL WIRING BETWEEN MAKE-UP AIR UNIT AND HOOD CONTROL PANEL PER MANUFACTURER'S INSTRUCTIONS.
19. PROVIDE 60A/2P NFDS IN NEMA 3R ENCLOSURE.
20. PROVIDE 30A/2P NFDS IN NEMA 3R ENCLOSURE.
21. ROUTE DUCTWORK FROM MAKE-UP AIR UNIT ACROSS ROOF. SEE DETAIL 2:ME1 FOR MORE INFORMATION.
22. INSTALL ROOF HYDRANT PER MANUFACTURERS INSTRUCTIONS, SEE PLUMBING FIXTURE SCHEDULE AND DETAIL 3, THIS SHEET FOR MORE INFORMATION.



1 M/E ROOF PLAN

1/4" = 1'-0"

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Project 21064 October 2021

DIVISION 15 - MECHANICAL SPECIFICATIONS

SECTION 15050 - BASIC MECHANICAL MATERIALS AND METHODS

15050.01 The drawings and general provisions of the Contract, including General Conditions, Supplementary General Conditions, and General Requirements apply to the work specified in DIVISION 15 - MECHANICAL.

15050.02 The Mechanical Contract includes all labor, materials and equipment required for the complete mechanical systems as shown and herein specified.

15050.03 This contractor is responsible for reviewing ALL drawings to determine extent of coordination required with other trades. Additional offsets, bends, material will not be accepted as a result of un-coordinated work.

15050.04 This contractor is required to perform work in a professional and quality workman like manner. This includes, but is not limited to:

a. Make vertical elements plumb and horizontal elements level unless noted otherwise.
b. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless noted otherwise.
c. Protect work from damage and water during construction. Replace all equipment/material damaged or exposed to water during construction.
d. Clean equipment, interior and exterior, at completion of construction and remove all temporary labels, stains and foreign substances.
e. Protect HVAC ductwork from accumulating dirt and debris during construction and replace all HVAC filters at completion of construction

15050.05 Each major component of equipment shall have the manufacturer's name; address, model number and rating on a nameplate securely affixed.

15050.06 All equipment of one type (such as furnaces, condensing units, etc.) shall be the products of one manufacturer, unless otherwise specified.

15050.07 The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding. Where the quality of required material is not specified, the Contractor shall furnish a first class standard item as approved by the Architect/Engineer.

15050.08 Manufacturer's names are intended to establish type and quality of items to be provided via the contract.The materials, products, and equipment described in the specifications or on the drawings establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution. Listing of these manufacturers shall in no way be construed as a device intended to limit the bidders to those specifically listed.

15050.09 Electrical Characteristics for Mechanical Equipment: Equipment of higher electrical characteristics may be furnished provided such proposed equipment is approved in writing and connecting electrical services, circuit breakers, and conduit sizes are appropriately modified. If minimum energy ratings or efficiencies are specified, equipment shall comply with requirements.

15050.10 The Drawings are schematic only and are not intended to show the exact routing of piping, ductwork, etc. Final determination of routing shall be made at the jobsite, in coordination with other trades.

15050.11 Install all equipment in strict accordance with the manufacturer's recommendations.

15050.12 All work under this contract shall conform to the requirements of all applicable local, state, and federal code requirements. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Architect for a decision before proceeding.

15050.13 All components, accessories, and installation required for a complete mechanical installation shall be provided. Where materials or labor are required for completion of a system, such material or labor shall be included as if fully specified herein.

15050.14 Periodically during construction and prior to Owner acceptance of the building, Contractor shall remove from the premises and dispose of all packing material and debris related to work performed under this Division.

15050.15 Before submitting his bid, the Contractor shall visit the actual location of the job and shall fully understand the scope of the work to be done and the conditions under which it is to be performed.

15050.16 The Mechanical Contractor shall be responsible for locating and setting his own pipe sleeves, and be well aware of the job progress to avoid unnecessary delay for setting of same.

15050.17 Notify the Engineer of errors, discrepancies, or omissions in the drawings and specifications before construction or fabrication of affected work, or failing such notice, be responsible for correction of such work without cost to the Owner, Architect, or Engineer.

SECTION 15055 SERVICES

15055.01 Provide the services as shown on plans and specified.

15055.02 Locate and mark all known utilities prior to proceeding with work.

15055.03 Should any existing utilities be damaged or disrupted, immediately notify Owner and repair to existing condition.

15055.04 Contractor shall pay any and all required utility service fees associated with this project.

15055.05 Contractor shall verify all utility requirements with the appropriate utility provider. Any work required by utility providers but not indicated on the drawings shall be provided as though fully specified.

15055.06 Domestic Water: Contractor shall connect the service line to the City main and provide meter as directed by the City.

15055.07 Sewer Service: Contractor shall connect to existing building drain.

15055.08 Gas Service: Natural gas utility provider shall provide and set gas meter and regulation station. The Mechanical Contractor shall connect to outlet of meter and bring service to the building.

SECTION 15060 PIPE AND FITTINGS

15060.01 Above Grade Piping and Fittings:

A. Type L hard copper pipe with sweat type fittings and 50/50 solder shall be used for all discharge pipe from relief valves, condensate drain, and non-potable domestic water piping.
B. Domestic water piping:
1. Type L hard copper pipe with sweat type fitting and 95/5 lead free solder.
2. If approved by owner, cross-linked polyethylene (PEX) with brass barbed fittings. All components shall be from same manufacturer, and installed in strict accordance with Manufacturer's instructions. System used must have been in production for a minimum of five years.

All piping installed where exposed or subject to damage shall be copper.

C. Service weight centrifugally cast iron soil pipe, bearing the mark of the Cast Iron Institute, with "NO HUB" joints shall be used for soil, waste and vent lines. All changes in direction shall be made by the use of 45 wyes, half wyes, long sweep 1/4 bends, 1/6, 1/8, or 1/16 bends. Sanitary tees may be used where the changes in direction of flow is from horizontal to vertical. Where space conditions necessitate the use of short radius fitting, approval shall be obtained before installation. NOTE: WHERE PERMITTED BY LOCAL BUILDING CODES, ABOVE GROUND SANITARY WASTE AND VENT PIPING MAY BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS. ALL FITTINGS SHALL BE DRAINAGE PATTERN FITTINGS, AND NO PVC PIPING SHALL BE USED IN RETURN AIR PLENUMS.
D. Schedule 40 black steel pipe shall be used for natural gas piping. Fittings shall be malleable iron or wrought steel welding type with threaded or welded joints.

15060.02 Below Grade Pipe and Fittings

A. Schedule 40 PVC drain waste and vent piping with solvent welded joints shall be used for all soil, waste and vent lines. All changes in directions shall be made by the use of 45 wyes, half wyes, long sweep 1/4 bends, 1/6, 1/8, or 1/16 bends. Sanitary tees may be used where the changes in direction of flow are from horizontal to vertical. Where space conditions necessitate the use of short radius fitting, approval shall be obtained before installation.

15060.03 Soil, Waste and Vent Piping

A. The arrangement of the systems must be as direct as possible avoiding all unnecessary offsets. All pipe shall run as indicated on the drawings, unless some condition should arise which would make it necessary or seem advisable to alter same; in which case, the Architect or his representative must be consulted before making any change. Horizontal lines shall be graded at 1/8" per foot, unless noted otherwise. Where necessary, lines may pitch at 1/10" per foot when approved or noted.
B. Every vent for traps shall be connected to the waste line by as short a connection as possible, but in no case shall such connections have a length greater than 2' in length, measuring horizontally from the center of the fixture to the vent. Horizontal vents shall connect into the main stack at least 18" above the highest fixture.
C. Each fixture and piece of equipment requiring connection to the sanitary drainage system shall be equipped with a trap. Each trap shall be placed as near the fixture as possible and no fixture shall be double trapped. Combination drain/vent piping is acceptable where indicated and allowed by building codes.
D. All under slab plastic piping shall be installed in strict compliance with building codes as well as all manufacturers' recommendations.

15060.04 Domestic Water Piping

A. All runs of pipe shall be installed as shown on drawings, unless some condition should arise which would make it necessary or seem advisable to alter same; in which case, the Architect or his representative must be consulted before making any change.

15060.05 Refrigeration Piping

A. All refrigerant piping shall be Type L ACR hard copper with silfos joints. All elbow fittings,except suction line oil traps, shall be long radius type. Suction line oil traps shall be comprised of short radius elbows to minimize the quantity of oil retained.
B. All refrigerant lines shall be charged with nitrogen during all sweating and heating operations, and shall be evacuated with a vacuum pump prior to charging.

15060.06 Gas Piping

A. Gas piping shall be installed as shown and shall be fully supported where installed above grade.

B. Provide a gas valve, union and dirt leg at each equipment connection.

SECTION 15080 MECHANICAL INSULATION

15080.01 All domestic hot and cold water piping shall be insulated with 1" thick preformed fiberglass pipe insulation, Owens Corning, "Fiberglas 25 ASJ/SSL" or equal Knauf or Certain-Teed. Insulation thickness is based on C=4.0. Increase thickness as required for lower C.

15080.02 Vapor barrier shall be provided on cold water piping. Vapor barrier shall be continuous throughout piping system with all openings sealed. Fitting insulation on pipe requiring same shall receive a 1 mil aluminum foil barrier sandwiched between two coats of #1C501 vapor barrier mastic.

15080.03 Fittings, valve bodies, hangers, etc., shall be insulated with fiberglass wrap built up to adjacent insulation thickness, wired in place. Provide pre-formed PVC fitting covers on all fittings. Fittings shall carry a 25 or less flamespread and 50 or less smoke development rating.

15080.04 If the lines are to be hung from the exterior of the insulation, preformed sheet-metal insulation shields shall be provided.

15080.05 All joints in insulation shall be sealed with #520 adhesive applied in strict accordance with the manufacturer's recommendations.

15080.06 Insulate refrigerant suction lines with 3/4" foam pipe insulation, "Armacell Armaflex" or equivalent. Provide all insulation and fittings located outside with full PVC jacket.

15080.07 Insulate ductwork as scheduled. Duct dimensions indicated on the plans are free area.

Indoor Concealed Supply Duct: Insulate all rectangular and round sheet metal duct with 1-1/2" fiberglass Duct wrap with foil exterior vapor barrier
Indoor Concealed Return Duct: 1-1/2" fiberglass duct wrap with foil exterior vapor barrier
General Building Exhaust Duct: None Required
Outdoor Air Intake Ductwork: 1-1/2" fiberglass duct wrap with foil exterior vapor barrier.

SECTION 15120 PIPING SPECIALTIES AND VALVES

15120.01 Valves shall be installed at locations shown and specified; the locations shall be accessible. All valves shall be installed with their stems or spindles horizontal or above.

15120.02 Provide unions where shown at all equipment connections and at other points where disconnection of piping will be required.

15120.03 Apollo bronze body ball valves, Series 70 or approved equal, with threaded or soldered end, shall be used in 3" and smaller copper and steel lines for domestic water duties. Provide with extended stem when used in insulated lines.

15120.04 Screwed or solder type ground joint unions shall be used on piping 2" and smaller.

15120.05 Unions shall not be installed in walls or partitions or above non accessible ceilings.

15120.06 Dielectric unions shall be used where copper lines connect to other types of materials.

15120.07 Provide chrome plated escutcheons on exposed pipes where they pass through walls and ceilings.

SECTION 15140 PIPING SUPPORTS, ANCHORS AND SEALS

15140.01 Provide pipe sleeves, hangers and supports.

15140.02 Pipe shall be securely supported from structure. Hangers shall be provided where required. No plastic hangers or straps shall be used.

15140.03 Pipe sleeves will be required in all pipe penetrations through exterior walls and floors. Sleeves shall be Schedule 5 steel pipe, field fabricated from minimum 16 gauge steel with 2" overlap at the seam.

15140.04 Space between sleeves and pipes in outside walls shall be filled or tightly caulked with oakum, butyl rubber, link seals or other approved equally effective material to resist the penetration of water. Pipe sleeve shall be sufficient diameter to provide approximately 1/2" clearance around pipe, and in the case of insulated pipe, approximately 1/2" around insulation.

15140.05 Sleeves shall be set no closer than three pipe diameters center to center, be set 3/4" past all wall surfaces, and securely anchored to the wall.

15140.06 Hanger and support spacing for horizontal steel and copper piping shall not exceed the following:

PIPE SIZE	STEEL PIPE	COPPER PIPE
1/2" - 1-1/4"	7'	5'
1-1/2" - 2"	9'	6'
2-1/2" - 3"	11'	10'

15140.07 Soil, waste, vent and drain pipe shall have a minimum of one hanger per pipe section at the joints and at changes in direction and branch connections.

15140.08 Spacing of supports and braces for exposed vertical piping shall not exceed the hanger spacing specified for horizontal pipe, unless otherwise indicated.

SECTION 15430 PLUMBING SPECIALTIES

15430.01 Provide Zurn, Smith, Wade, Josam, or approved equal cleanouts where shown. Cleanouts shall be the same size pipe for pipe 4" and smaller, and 4" for lines 4" and larger.

15430.02 Floor and exterior cleanouts shall be Zurn ZN-1400. Set in 12" x 12" x 4" concrete pad for exterior use.

15430.03 Wall cleanouts shall be "NO-HUB" caps behind Zurn Z1446 round stainless steel cover.

SECTION 15440 PLUMBING FIXTURES AND TRIM

15440.01 Provide complete, all fixtures indicated. All fixtures shall be set firm and true, connected to all pipe and ready for use. All fixtures shall be of one manufacturer throughout the entire installation, unless otherwise specified. Stop valves shall be provided on the water connections to all fixtures.

15440.02 Refer to plumbing fixture schedule on drawings. Fixtures from Eljer, American Standard, Crane, and Kohler are equally accepted provided comparable units are provided.

15440.03 Refer to elevations on the Architect's drawings for installation height of wall mounted fixtures.

15440.04 Plumbing trim utilized shall be provided with renewable seats and replaceable internal working components.

15440.05 All fixtures shall be substantially supported in an approved manner. Furnish and install adjustable carriers as required for all wall hung fixtures.

15440.06 All spaces between fixtures and finished surfaces shall be caulked and pointed square with an approved white silicone sealant resulting in a neat and smooth appearance.

15440.07 The contractor shall be responsible for the protection and cleanliness of all fixtures, equipment and accessories.

SECTION 15670 - A/C SYSTEMS

15670.01 Provide Trane, Lennox, York, or Carrier condensing unit/evaporator/furnace combinations as scheduled on the drawings.

15670.02 Gas fired furnaces shall be provided with direct drive factory balanced, resilient mounted, centrifugal fan. Fans shall be multispeed with internal thermal protection and permanent lubrication.

15670.03 Gas heat exchangers shall be stamped and welded aluminized steel. Heating system shall be equipped with electronic pilot ignition, 100 percent safety gas shutoff valve, control gas valve, and manual shutoff.

15670.04 Combustion air intake and vent piping shall be PVC pipe, sized per Manufacturer's recommendations. Terminations through wall or roof shall be made utilizing Manufacturer's PVC fitting.

15670.05 All system components shall be of same Manufacturer.

15670.06 Refrigerant evaporator coils shall be copper tube with mechanically bonded aluminum fins, complying with ARI 210/240, and with thermal expansion valve.

15670.07 Filters shall be 1" thick throwaway type.

15670.08 Condensing units shall have steel housing with removable panels to access controls. Service valves, fittings and gage ports shall be on exterior of unit. Housing shall be finished with baked enamel. Condenser coils shall be copper tube with mechanically bonded aluminum fins complying with ARI 210/240.

15670.09 Compressors shall be hermetically sealed scroll type mounted on vibration isolators. Provide with crankcase heater. Motor shall be permanently lubricated and have thermal and current sensitive overload protection, start capacitor, relay, and contactor.

15670.10 Provide with programmable thermostats and all required control wiring.

SECTION 15890 SHEET METAL WORK

15890.01 Provide all sheet metal work for supply, return, and exhaust air systems. Provide all grilles, louvers, hand dampers, and all work required to make the job complete as shown on the drawings.

15890.02 All duct construction, gauges, methods of construction, and methods for hanging and supporting shall conform to SMACNA Standards applicable sections of the Mechanical Code.

15890.03 All ductwork shall be constructed of galvanized sheet steel to 2" SMACNA pressure class and Class "C" sealing.

15890.04 Make joints in rectangular ductwork airtight and patch or solder open corners.

15890.05 Concealed round ductwork shall be 26 gauge galvanized "Snap Lock" pipe with all changes in direction made via adjustable elbows. All seams and connections shall be sealed with foil faced pressure sensitive tape. Silver-coated polyethylene cloth tape is not acceptable. All rectangular duct shall be 24 gauge galvanized sheetmetal. Duct sizes shown on drawings are air stream size.

15890.06 Exposed round ductwork shall be galvanized, double wall, spiral formed sheetmetal fabricated in accordance with SMACNA construction standards.

15890.07 Provide Ventfabrics, Inc., "Metaledge Ventglass" canvas connections for all duct systems at connections to motorized equipment.

15890.08 Coordinate ductwork installation with other trades and verify the location of all light fixtures, pipes, beams, and other possible obstructions, and adjust routing of ductwork as required to accommodate same.

SECTION 15950 TESTING, ADJUSTING, AND BALANCING

15950.01 All testing and balancing work shall be performed in accordance with NEBB National Standards for Testing, Adjusting, and Balancing of Environmental Systems.

15950.02 Adjust all fans and air outlets to within 10% of specified airflow.

SECTION 15915 FIRE PROTECTION SPRINKLER SYSTEM

15915.01 Wet-Pipe Sprinkler System: Automatic sprinklers are attached to piping containing water and that is connected to water supply. Water discharges immediately from sprinklers when they are opened. Sprinklers open when heat melts fusible link or destroys frangible device. Hose connections are included if indicated.

15915.02 Provide a fully operational and code compliant wet sprinkler system for entire building.

15915.03 Submit Approved Sprinkler Piping Drawings: Working plans, prepared according to NFPA 13, that have been approved by authorities having jurisdiction, including hydraulic calculations. Working plans and hydraulic calculations must be prepared by a licensed Professional Engineer or NICET level 3 designer, as required by the A.H.J.

15915.04 Piping shall be grooved end, ductile-iron pipe: AWWA C151, with factory or field formed, radius cut grooved ends according to AWWA 606, or CPVC where allowed.

15915.05 All valves shall be UL listed or FMG approved, with 175-psig minimum pressure rating.

15915.06 Fire Department Connection: UL 405, 175-psig minimum pressure rating, with corrosion resistant metal body with brass inlets, brass wall escutcheon plate, brass lugged caps with gaskets and brass chains, and brass lugged swivel connections. Include inlets with thread according to NFPA 1963 and matching local fire department sizes and threads, outlet with pipe threads, extension pipe nipples, check devices or clappers for inlets, and escutcheon plate with marking similar to "AUTO SPKR & STANDPIPE".

15915.07 Water Flow Indicator: UL 346, electrical supervision, paddle operated type, water flow detector with psig pressure rating and designed for horizontal or vertical installation. Include two single pole double throw circuit switches for isolated alarm and auxiliary contacts, 7A, 125V AC and 0.25 A, 24V DC, complete with factory set, field adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed.

15915.08 Valve Supervisory Switch: UL 753, electrical, single pole, double throw switch with normally closed contacts. Include design that signals controlled valve is in other than fully open position.

END OF DIVISION 15

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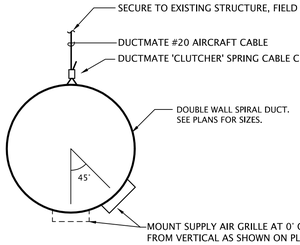
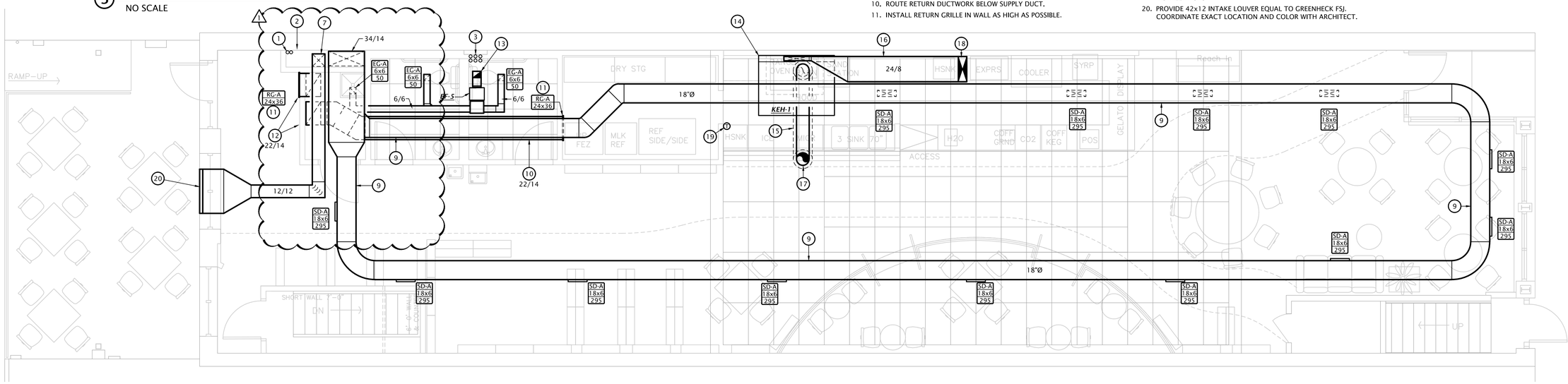


3 EXPOSED SPIRAL DUCT DETAIL

NO SCALE

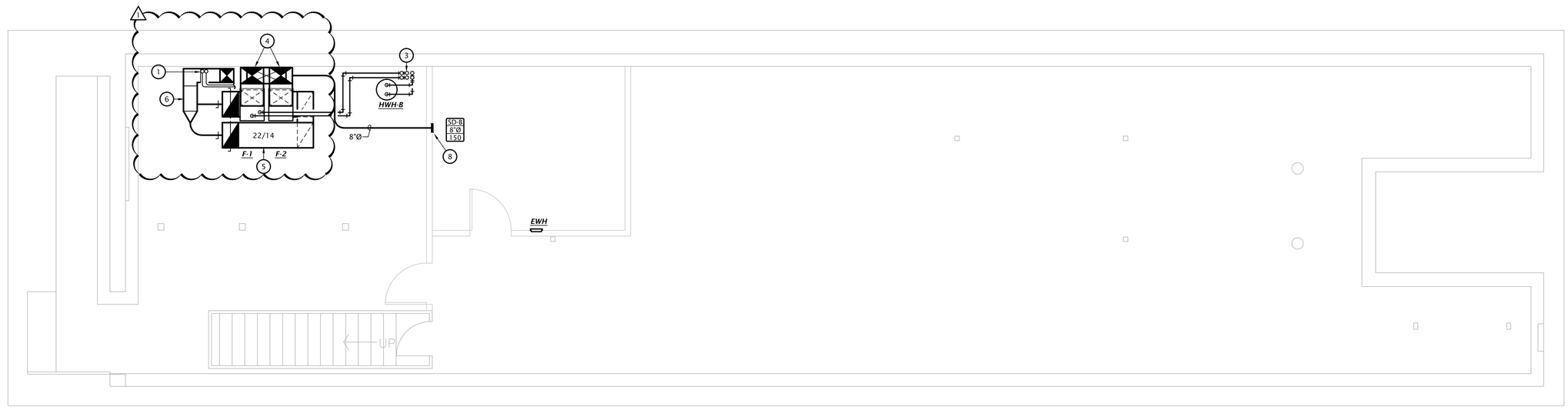
NOTES BY SYMBOL

1. ROUTE REFRIGERANT PIPING FROM CONDENSING UNITS ON ROOF DOWN TO MATCHING EVAPORATOR COIL IN BASEMENT.
2. OFFSET REFRIGERANT PIPING ON FIRST FLOOR TO CONCEAL PIPING IN WALL THROUGH 2ND FLOOR TO ROOF. SEE M2 FOR CONTINUATION.
3. ROUTE VENT AND INTAKE PIPING CONCEALED IN CHASE UP TO ROOF. SEE M2 FOR CONTINUATION.
4. ROUTE 20/14 SUPPLY DUCT FROM EACH FURNACE UP INTO CHASE BEHIND FIRST FLOOR JANITOR CLOSET. TRANSITION INDIVIDUAL DUCTS TO ONE 34/14 DUCT.
5. ROUTE RETURN AIR DUCT AS HIGH AS POSSIBLE AND CONNECT TO FURNACES.
6. ROUTE OUTDOOR AIR DUCT AS HIGH AS POSSIBLE AND CONNECT TO RETURN AIR DUCTWORK AS INDICATED ON PLANS.
7. OUTDOOR AIR DUCT UP FROM BASEMENT. ROUTE ABOVE CEILING TO INTAKE LOUVER.
8. INSTALL DIFFUSER 6" BELOW FINISHED CEILING.
9. ROUTE SUPPLY DUCTWORK AS HIGH AS POSSIBLE. SEE DETAIL 3, THIS SHEET, FOR MORE INFORMATION.
10. ROUTE RETURN DUCTWORK BELOW SUPPLY DUCT.
11. INSTALL RETURN GRILLE IN WALL AS HIGH AS POSSIBLE.
12. ROUTE RETURN DUCTWORK DOWN TO BASEMENT.
13. ROUTE 8/6 EXHAUST DUCTWORK CONCEALED IN CHASE UP TO ROOF.
14. INSTALL KITCHEN HOOD PER MANUFACTURER'S INSTRUCTIONS. SEE SHEET M8 FOR MORE INFORMATION.
15. PROVIDE PRE-MANUFACTURED, DOUBLE WALL, ZERO CLEARANCE GREASE DUCTWORK EQUAL TO SCHEBLER 'FYRE GUARD' / 'SLIM VENT'. ROUTE EXHAUST DUCT BELOW SUPPLY DUCT. INSTALL AT 45 DEGREE ANGLE UP TO CEILING WHEN CLEAR OF SUPPLY DUCT. VERIFY DUCT LENGTHS WITH MANUFACTURER AND PROVIDE SHOP DRAWINGS TO ENGINEER FOR REVIEW.
16. ROUTE MAKE-UP AIR DUCT CONCEALED ABOVE CEILING. TRANSITION AS REQUIRED TO MAKE FINAL CONNECTION TO HOOD.
17. ROUTE KITCHEN EXHAUST UP TO ROOF, CONCEALED IN CHASE. SEE M2 FOR CONTINUATION.
18. ROUTE MAKE-UP AIR DUCT UP TO ROOF, CONCEALED IN CHASE. SEE M2 FOR CONTINUATION.
19. PROVIDE ONE THERMOSTAT FOR CONTROL OF BOTH FURNACES. PROVIDE ALL REQUIRED RELAYS, WIRING, ETC. FOR COMPLETE INSTALLATION.
20. PROVIDE 42x12 INTAKE LOUVER EQUAL TO GREENHECK FSJ. COORDINATE EXACT LOCATION AND COLOR WITH ARCHITECT.



2 1ST FLOOR HVAC PLAN

1/4" = 1'-0"



1 BASEMENT HVAC PLAN

1/4" = 1'-0"

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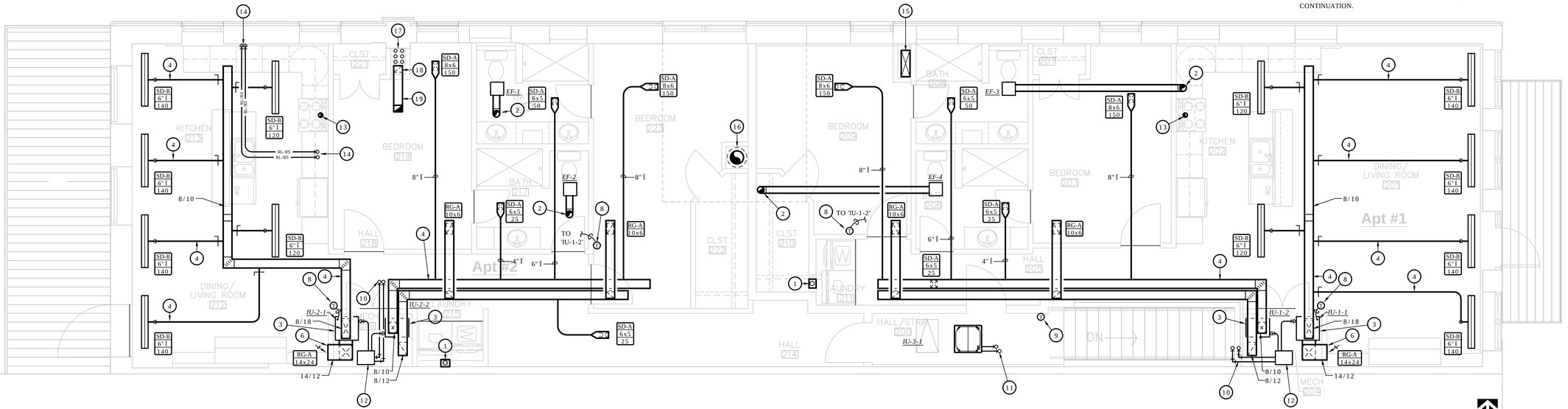
Project 21064 October 2021

NOTES BY SYMBOL

1. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ī DRYER EXHAUST DUCT TO ROOF CAP WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE DUCT LENGTH = 25' WITH ONE 90ī ELBOW AND TWO 45ī ELBOWS. AT 2ND AND 3RD FLOORS ROUTE DUCT BELOW FLOOR TO EXTERIOR WALL. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED.

   NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
2. ROUTE 6"Ī EXHAUST DUCT FROM EXHAUST FAN TO ROOF CAP. COORDINATE ROOF CAP INSTALLATION WITH G.C.
3. SEE BLOWER COIL DETAIL 2:M1 FOR MORE INFORMATION.
4. WHERE DUCTWORK IS EXPOSED, ROUTE IN BETWEEN AND THROUGH STRUCTURE. COORDINATE EXACT ROUTING WITH EXISTING STRUCTURE.
5. ROUTE DUCTWORK BELOW STRUCTURE AND ABOVE LAUNDRY ROOM CEILING.
6. MOUNT BOTTOM OF RETURN GRILLE 7'-6" AFF. COORDINATE LOCATION WITH CASEWORK. PROVIDE LINED RETURN DUCTWORK AT THIS LOCATION.
7. MOUNT BOTTOM OF RETURN GRILL 9'-6" AFF.
8. PROVIDE WALL MOUNTED THERMOSTAT FOR EACH INDOOR UNIT IN APARTMENTS. COORDINATE FINAL LOCATION WITH OWNER.
9. PROVIDE WALL MOUNTED THERMOSTAT FOR HALLWAY INDOOR UNIT WITH LOCKABLE COVER.
10. ROUTE REFRIGERANT CONCEALED ABOVE CEILINGS FROM OUTDOOR UNIT TO BRANCH CONTROLLER.
11. ROUTE REFRIGERANT FROM OUTDOOR UNIT TO INDOOR UNIT.
12. MODEL TAC-MKA32BC BRANCH CONTROLLER. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
13. ROUTE 4" DUCT FROM MICROWAVE/HOOD COMBO, BY OWNER, TO MANUFACTURER'S ROOF JACK. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH G.C.
14. ROUTE REFRIGERANT FROM CONDENSING UNITS ON ROOF TO MATCHING EVAPORATOR COILS IN BASEMENT. ROUTE PIPING AS HIGH AS POSSIBLE AND CONCEAL PIPING IN WALL THROUGH 2ND FLOOR. SEE ME1 AND M1 FOR CONTINUATION.
15. ROUTE MAKE-UP AIR DUCT CONCEALED IN CHASE. SEE M2 AND ME1 FOR CONTINUATION.
16. ROUTE KITCHEN EXHAUST DUCT CONCEALED IN CHASE. SEE M1 AND ME1 FOR CONTINUATION.
17. ROUTE VENT AND INTAKE PIPING CONCEALED IN CHASE. SEE M1 AND ME1 FOR CONTINUATION.
18. ROUTE BATHROOM EXHAUST DUCT CONCEALED IN CHASE. SEE M1 FOR CONTINUATION.
19. ROUTE EXHAUST DUCTWORK AS HIGH AS POSSIBLE. SEE ME1 FOR CONTINUATION.



1 SECOND FLOOR HVAC PLAN
1/4" = 1'-0"

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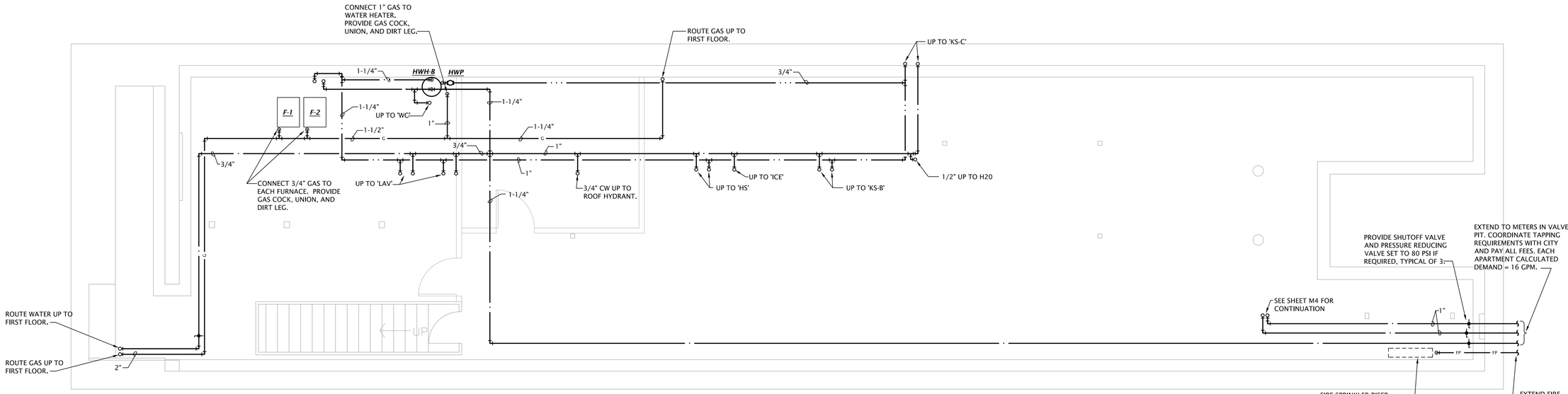
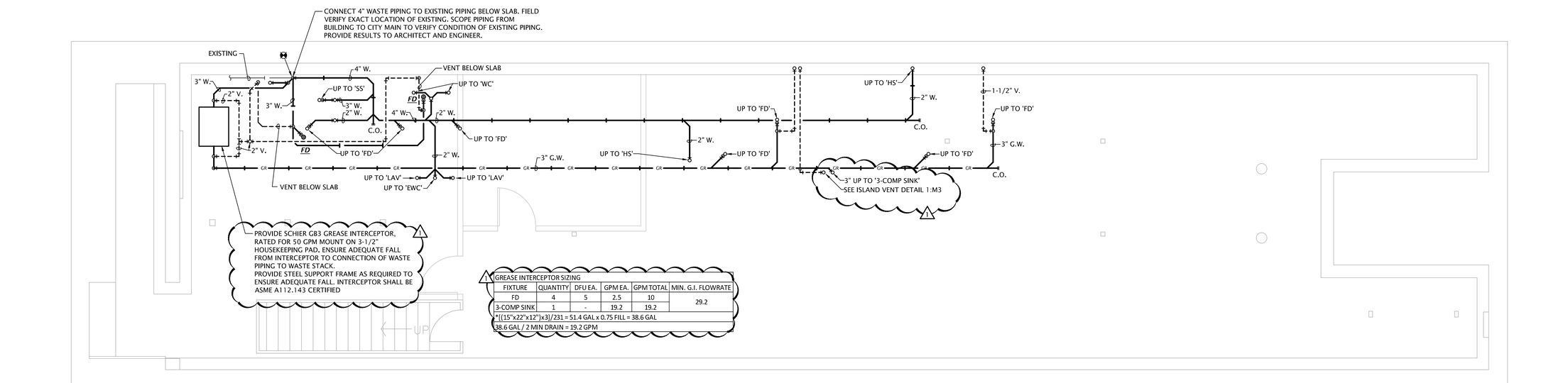


2 BASEMENT DOMESTIC WATER PLAN
1/4" = 1'-0"



1 GREASE INTERCEPTOR SIZING

FIXTURE	QUANTITY	DFU EA.	GPM EA.	GPM TOTAL	MIN. G.I. FLOWRATE
FD	4	5	2.5	10	29.2
3-COMP SINK	1	-	19.2	19.2	
*[(15"x22"x12")x3]/231 = 51.4 GAL x 0.75 FILL = 38.6 GAL					
38.6 GAL / 2 MIN DRAIN = 19.2 GPM					

1 BASEMENT WASTE AND VENT PLAN
1/4" = 1'-0"

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M3

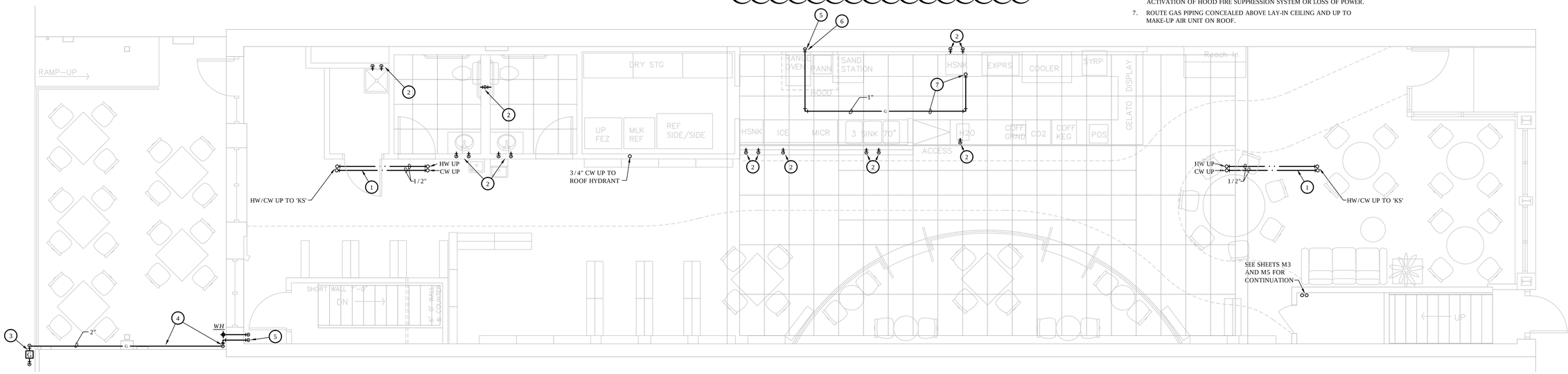
GENERAL NOTE:

COORDINATE FINAL LOCATIONS AND REQUIREMENTS OF ALL EQUIPMENT AND PLUMBING FIXTURES IN KITCHEN AREA WITH OWNER PRIOR TO ROUGH-IN.

(#) NOTES BY SYMBOL

1. ROUTE PIPING AS HIGH AS POSSIBLE
2. ROUTE PIPING DOWN INTO BASEMENT
3. CONNECT TO DISCHARGE OF NEW GAS METER AND REGULATOR PROVIDED BY KANSAS GAS SERVICE. TOTAL CONNECTED LOAD = 485 CFH @7" W.C. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER AND PAY ALL ASSOCIATED FEES.
4. ROUTE GAS PIPING ON GRADE TO EXTERIOR WALL. ROUTE PIPING UP EXTERIOR OF WALL AND PENETRATE WALL AT 18" A.F.G. PROVIDE PIPE SUPPORTS ANCHORED TO SLAB EQUAL TO nVENT CADDY ANCHORING SOLUTIONS.
5. ROUTE 1-1/4" GAS DOWN TO BASEMENT. SEE BASEMENT PLAN FOR CONTINUATION.
6. CONNECT 1" GAS TO RANGE. PROVIDE GAS COCK, UNION, AND DIRT LEG. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED BY OTHERS. PROVIDE GAS SOLENOID VALVE. VALVE TO CLOSE UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM OR LOSS OF POWER.
7. ROUTE GAS PIPING CONCEALED ABOVE LAY-IN CEILING AND UP TO MAKE-UP AIR UNIT ON ROOF.

PROVIDE BACKFLOW PREVENTION DEVICES AT ALL ICE MAKERS AND OTHER KITCHEN EQUIPMENT WHERE POTENTIAL FOR CONTAMINATION MAY OCCUR. COORDINATE EXACT REQUIREMENTS WITH AHJ.

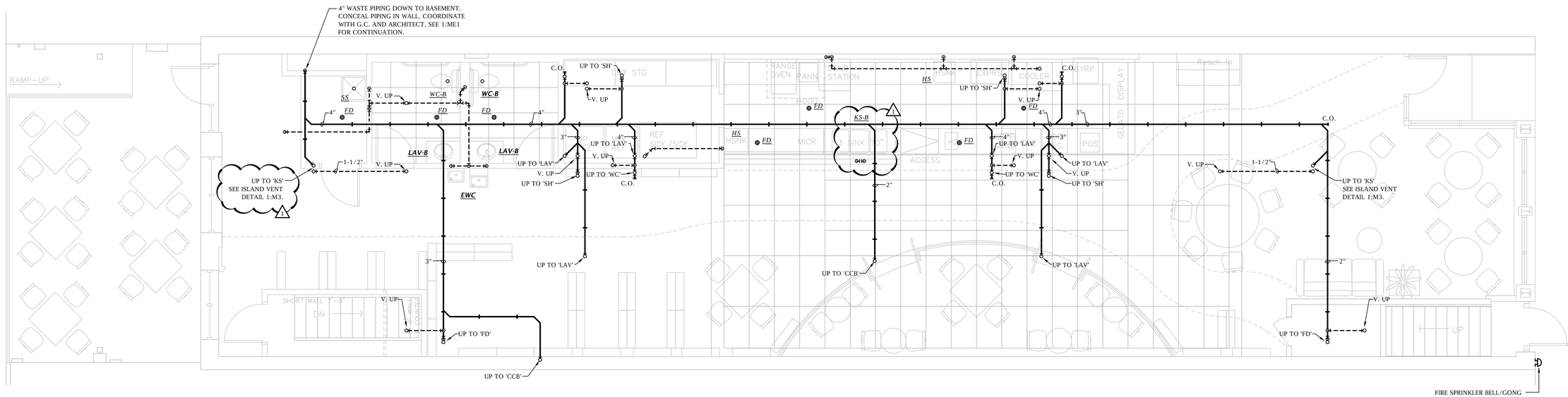


2 1ST FLOOR DOMESTIC WATER PLAN

1/4" = 1'-0"

make cleanouts accessible at 2nd floor, not above ceiling

move hw and cw connections to correct side



1 1ST FLOOR WASTE AND VENT PLAN

1/4" = 1'-0"

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		ALTERNATE MATERIAL/SIZE	
		Cross-linked polyethylene (PEX)	Polypropylene (PP)
COPPER PIPE SIZE INDICATED	1/2"	3/4"	1/2"
	3/4"	1"	1"
	1"		1-1/4"
	1-1/4"		1-1/2"
	1-1/2"		2"
	2"		2-1/2"
	2-1/2"		3"
	3"		3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

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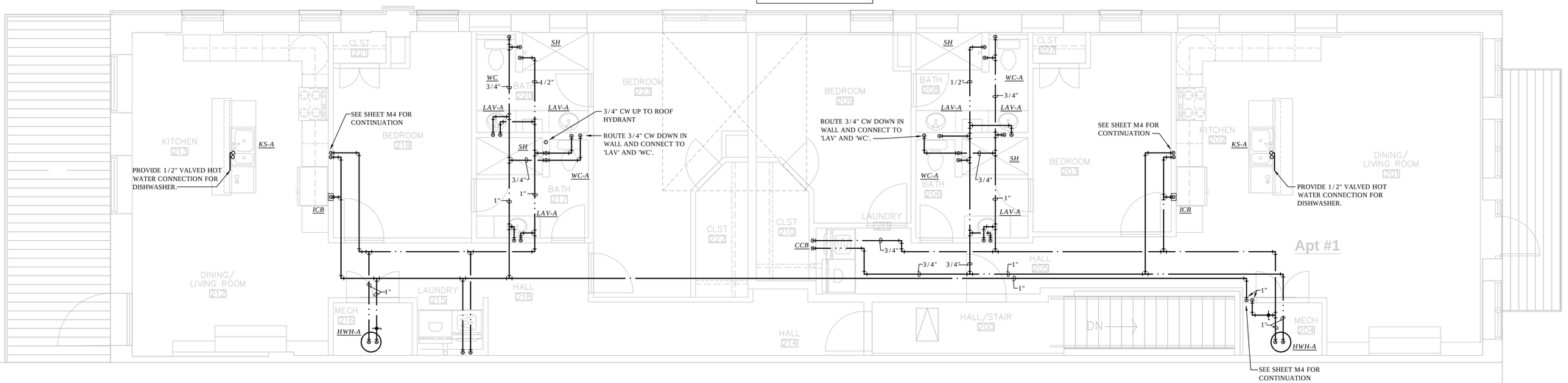
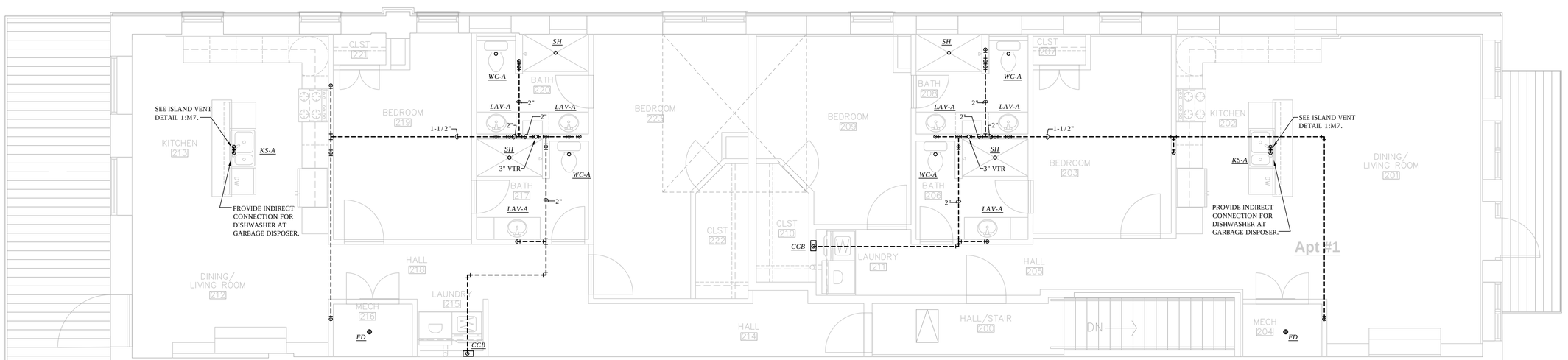
Project 21064 October 2021

NOTE: WHERE EXPOSED, UTILIZE COPPER AND ROUTE ALL PIPING AS HIGH AS POSSIBLE.



2 SECOND FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"

NOTE: WHERE EXPOSED, ROUTE ALL PIPING AS HIGH AS POSSIBLE.



1 SECOND FLOOR WASTE AND VENT PLAN
1/4" = 1'-0"

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MITSUBISHI CITY MULTI VRF INDOOR UNIT SCHEDULE

MARK	Model	Type	Cooling Design Entering Temp DB/WB (°F)	Heating Design Entering Temp DB/WB (°F)	Corrected Capacity			Airflow (cfm)	Max Fan ESP Setting 208V (IN WG)	Voltage / Phase	Electrical MCA/MFS
					Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity	Heating Capacity (BTU/h)				
IU-1-1	MVZ-A36AA4	Multi Position	75.0/63.0	75.0	25,375.6	23,848.0	28,608.8	800	0.3	208/230V/1-phase	Powered by Outdoor
IU-1-2	MVZ-A12AA4	Multi Position	75.0/63.0	75.0	8,458.5	8,388.0	9,117.1	400	0.3	208/230V/1-phase	Powered by Outdoor
IU-2-1	MVZ-A18AA4	Multi Position	75.0/63.0	75.0	14,500.4	13,121.6	17,684.0	500	0.3	208/230V/1-phase	Powered by Outdoor
IU-2-2	MVZ-A18AA4	Multi Position	75.0/63.0	75.0	14,500.4	13,121.6	17,684.0	500	0.3	208/230V/1-phase	Powered by Outdoor
IU-3-1	SLZ-KA09NAR1.TH	Ceiling cassette (4-way airflow) type	75.0/63.0	75.0	7,236.0	6,567.5	5,450.0	320		208/230V/1-phase	Powered by Outdoor

MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE

Mark	Model Number	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Voltage / Phase	Electrical-Per Module	
							MCA	MOCP
HP-1	MXZ-5C42NAHZ	103	-0.8	33,834.2	37,725.8	208/230V / 1-phase	42	50
HP-2	MXZ-4C36NAHZ	103.0	-0.8	29,000.7	35,368.0	208/230V / 1-phase	42	50
HP-3	SUZ-KA09NA-SLZ	103.0	-0.8	7,236.0	5,450.0	208/230V / 1-phase	12	15

Notes:

1. Provide heat pump units with hail guards.

PLUMBING SYMBOLS

	PIPE TURNING UP
	PIPE TURNING DOWN
	COLD WATER PIPING
	HOT WATER PIPING
W	WATER SERVICE PIPING
FP	FIRE PROTECTION SERVICE PIPING
	WASTE PIPING BELOW GRADE
	WASTE PIPING ABOVE GRADE
	VENT PIPING
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	UNION
	T/P RELIEF VALVE

MECHANICAL SYMBOLS

T	THERMOSTAT
	SQUARE SUPPLY DIFFUSER - TYPE AND AIRFLOW INDICATED
	SQUARE RETURN GRILLE - TYPE INDICATED
	MANUAL BALANCING DAMPER
	FLEXIBLE DUCTWORK - MAX. 5'
XX-X / XXX	DIFFUSER DESIGNATION AIRFLOW INDICATED
	RECTANGULAR RETURN OR RELIEF AIR DUCT UP
	RECTANGULAR SUPPLY AIR DUCT UP
	RECTANGULAR SUPPLY AIR DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST AIR DUCT DOWN
	WALL DIFFUSER
	ROUND DUCT UP
	PIPE TURNING UP
	PIPE TURNING DOWN
RL	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	CONTROL CABLE, VERIFY TYPE WITH EQUIPMENT MANUFACTURER

GRAVITY ROOF HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE	THROAT AREA (SF)	FINISH	SCREEN	DAMPER	SERVICE	DESCRIPTION	NOTES
H-1	GREENHECK	GRSR-8	8"x8" damper	0.37	MILL ALUMINUM	BIRD	NONE	EXHAUST	ROUND ALUMINUM GRAVITY RELIEF HOOD	1

NOTES:

1. Provide with roof curb compatible with roof slope and construction. Coordinate with Arch. and G.C.

SPLIT SYSTEM SCHEDULE

FURNACE	
MARK	F-1,2
MANUFACTURER	TRANE
MODEL	S9V2C080U5PSB
SUPPLY AIRFLOW (CFM)	1,985
O.A. AIRFLOW (CFM)	325
ESP ("WG)	0.9
BLOWER SPEED	MED-HIGH
MOTOR HP	1
NAT. GAS INPUT (MBH)	80
NAT. GAS OUTPUT (MBH)	77.6
MCA	13.9
MOCP	15
VOLTAGE/PHASE	120
EVAPORATOR	
ENT. AIR DB	80
ENT. AIR WB	67
NET SENS. CAPACITY (MBH)	37.4
NET TOTAL CAPACITY (MBH)	53
CONDENSING UNIT	
MARK	CU-1,2
MANUFACTURER	TRANE
MODEL	4TTR6061
O.A. DB	105|F
REFRIGERANT	R410-A
VOLTAGE/PHASE	240/1
MCA	29
MOCP	50

NOTES:

1. Provide refrigerant piping sized in accordance with manufacturer's recommendations for actual field installed length and routing.
2. Provide PVC intake and exhaust piping in accordance with manufacturer's recommendations.
3. Provide with 7-day programmable thermostat
4. Provide with R140a refrigerant.
5. Provide with manufacturer's twinning kit.

AIR DEVICE SCHEDULE

MARK	MANUFATURER	MODEL	APPLICATION				FINISH	MOUNTING	DAMPER	DESCRIPTION	NOTES
			SUPPLY	RETURN	EXHAUST	TRANSFER					
SD-A	PRICE	520	•				White	Surface	NO	Steel double deflection supply grille with front blades parallel to long dimension	
SD-B	PRICE	520	•				White	Surface	YES	Steel, double deflection grille with adj. bars 3/4"O.C., front blade parallel to short dimension	
RG-A	PRICE	530		•			White	Surface	No	Steel louvered return grille	

GENERAL NOTES:

- Maximum noise criteria shall be 25.
- Runouts to diffusers shall be same size as neck, U.N.O.
- Paint objects visible through grilles with flat black paint.
- Provide mounting frame as required for ceiling type. Coordinate with Architect.
- Verify finish with Architect.

ELECTRIC HEATER SCHEDULE

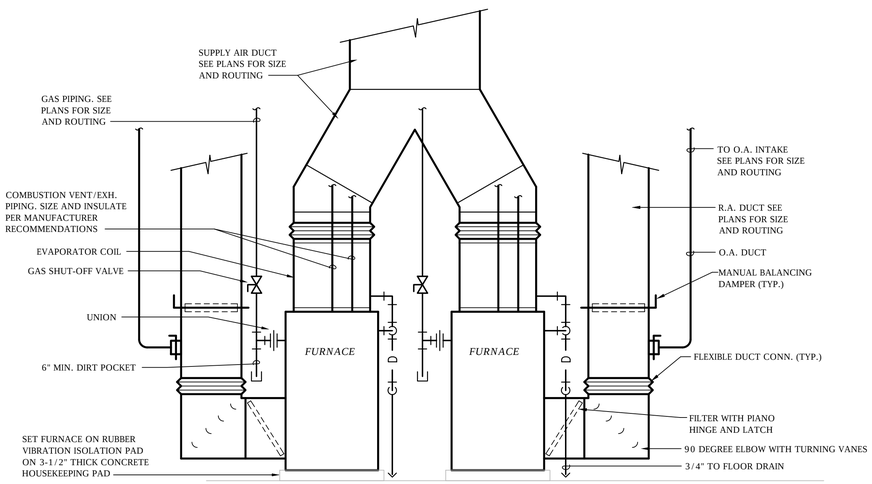
MARK	MANUF.	MODEL	MOUNTING	WATTS	VOLTAGE/PHASE	DESCRIPTION
EWH	QMARK	SED1012C	SURFACE WALL	1,000	120/1	Fan forced electric heater

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP (" wg)	POWER	VOLTS/ PHASE	NOTES
EF-1,2,3,4	NUTONE	XN80L	80	0.375"	84W	120 / 1	1,2,3,4,5
EF-5	GREENHECK	CSP-A200	150	0.4"	100W	120 / 1	5,6,7

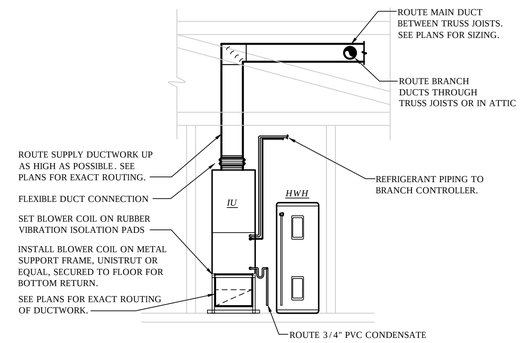
NOTES:

1. Fixture shall be Energy Star listed.
2. Fixture shall operate at <1 SONE
3. Provide integral disconnect.
4. Provide manufacturer's exhaust duct roof jack.
5. Provide integral backdraft damper.
6. Provide factory mounted and wired disconnect switch.
7. Provide with speed controller mounted to motor.



2 *TWINNED UPFLOW FURNACE DETAIL*

NO SCALE



1 *TYPICAL BLOWER COIL DETAIL*

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

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REVISIONS:
1 10-26-2021
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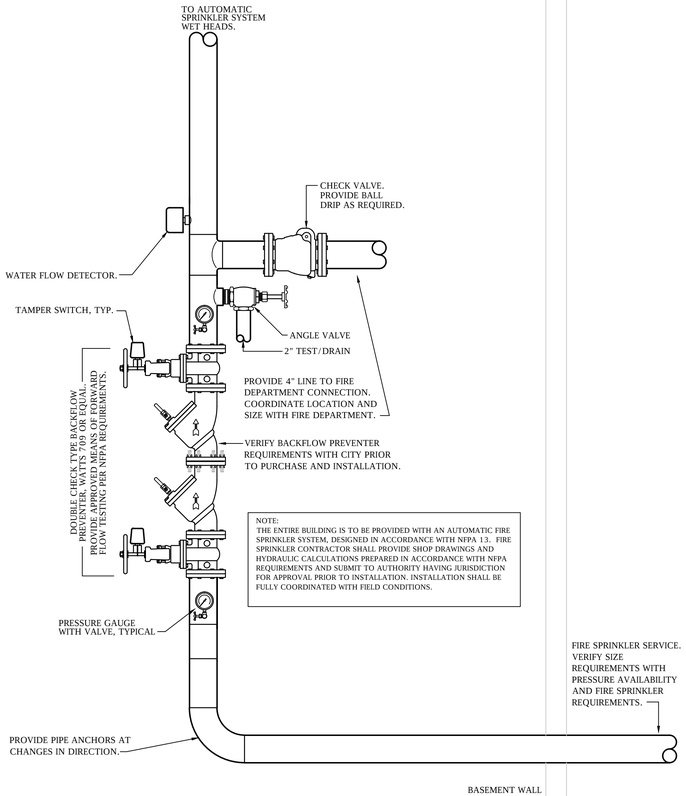
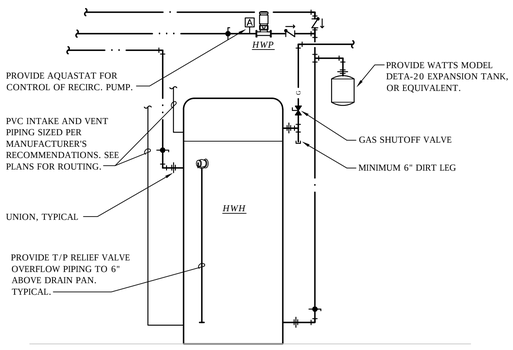


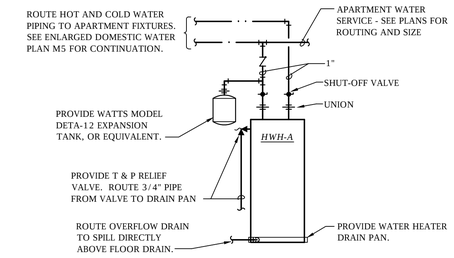
2 FIRE PROTECTION RISER DIAGRAM

Not to Scale



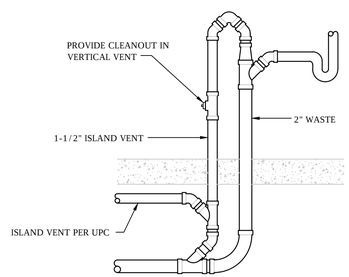
3 WATER HEATER DIAGRAM - (HWH-B)

SCALE: NOT TO SCALE



4 WATER HEATER DIAGRAM - (HWH-A)

NO SCALE



1 ISLAND VENT DETAIL

NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	DESCRIPTION	TRIM		ROUGH-IN SIZES				NOTES
			MANUFACTURER	DESCRIPTION	WASTE	VENT	CW	HW	
WC-A	KOHLER	Model 3998-0 "Wellworth" flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 14-5/8" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	#4650-0 Lustra white, open front, plastic seat and cover	4"	2"	1/2"	---	
WC-B	KOHLER	Model #K-3658-(RA)-0 "Highline Classic" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator. Coordinate location of trip lever with installation.	KOHLER	#K-4731-CA-0 white, open front, anti-microbial plastic seat without lid, with check hinge	4"	2"	1/2"	---	
LAV-A	KOHLER	Model 2196-4-0 self-rimming lavatory, white vitreous china, 20"W x 17", faucet holes on 4" centers.	KOHLER	Model 15199-F-CP single handle faucet. Provide grid drain. Provide point of use tempering valve.	2"	1-1/2"	1/2"	1/2"	1,2
LAV-B	KOHLER	Model 2196-4-0 self-rimming lavatory, white vitreous china, 20"W x 17", faucet holes on 4" centers.	---	Provide self-closing metered faucet, maximum 0.25 gallons per cycle. Provide grid drain. Provide point of use tempering valve.	2"	1-1/2"	1/2"	1/2"	1,2
KS-A	JUST	Model DL-2233-A-GR two compartment 18 GA stainless steel sink, self rimming, 14"x16"x8"D inside, fully undercoated, faucet holes as req.	DELTA IN-SINK-ERATOR	Model 450-HDF single handle kitchen sink faucet with hose spray attachment. Chrome finish. Provide basket strainer. "Badger 5" garbage disposal, 1/2hp, 120V, cord and plug connected.	2"	1-1/2"	1/2"	1/2"	1,2
KS-B	---	Provided by owner.							
HS	---	Provided by owner.							
SH	AQUARIUS	Model G-6077-SH-IS acrylic shower, 60"x36.5"x78.25", with molded soap shelfs, molded seat, right or left hand rough-in as required. Provide with brass drain with chrome strainer.	DELTA	Model R10000-UNWS/T13H132 pressure balancing valve with integral temperature limits, single metal lever handle, with 1.5 GPM shower head and arm.	2"	1-1/2"	1/2"	1/2"	
SS	FIAT	Model MSB-2424 one piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall guards.	DELTA	Model 28T9 faucet with hose thread outlet, vacuum breaker, pail hook, wall brace, metal lever handles.	3'	1-1/2"	3/4"	3/4"	2
EWC	ELKAY	Model EXTL8C ADA compliant dual height, self-contained water cooler with stainless steel basin, front push bar actuator, lead-free cooling system capable of cooling 8.0 GPH, 120 volts. Provide can apron equal to Elkay model 'LKAPREZL'			2"	1-1/2"	1/2"	---	
CCB	WATER TITE	Model W4700 recessed washing machine box with 2"PVC/ABS drain coupling and knockout test cap. Two, 1/4 turn adaptor ball valves, sweat connection.			2"	2"	1/2"	1/2"	
ICB	WATER TITE	Model W9700 ice maker connection box with 1/4 turn ball valve and 1/2" sweat copper connection.			---	---	1/2"	---	
FD-A	WADE	1100 series floor drain with 6" satin nickel bronze strainer. Provide trap protection device equal to ProSet Trapguard.			2"	1-1/2"	---	---	3
FS	WADE	Model 9140 floor sink with 8" deep body, enameled interior, sediment bucket, nickel bronze trim and grate with openings as required. Provide trap protection device equal to ProSet Trapguard.			3"	1-1/2"	---	---	
RH	WOODFORD	Model RHY2-MS frost proof roof hydrant with ASSE 1052 double check backflow preventer that is field testable, integral vent that allows drainage with 1/8" drain hole drilled and tapped in body of hydrant. Provide with manufacturers roof mounting system consisting of cast iron hydrant support, under deck flange, well seal, EPDM boot, and shims as required. Coordinate installation with G.C..			1/8"	---	3/4"	---	4
HWH-A	A.O. SMITH	Model ENT-40, 40 gallon electric water heater, (2) non simultaneous 4500 watts, 240 volts heating elements, 21 GPH recovery @ 90ÎF temp rise. Minimum 0.95 Energy Factor. Supplied with temperature & pressure relief valve and brass drain valve.							
HWH-B	A.O. SMITH	Model BTX-100, 50 gallon 96% efficient gas water heater, direct vent, 100,000 BTUH input, 116 GPH recovery @ 100ÎF temp rise. Supplied with temperature & pressure relief valve and brass drain valve. Provide with manufacturer's concentric vent kit.							
HWP	BELL & GOSSETT	Model NBF-36, three speed circulation pump, bronze body, 10 GPM @ 10' head, 120 VAC. Provide clamp-on aquastat for pump control.							

GENERAL:

Â Provide fixtures with all trim necessary for complete installation

NOTES:

1. Provide Dearborn supplies with stops and escutcheon plate, 1-1/4" cast brass p-trap.
2. Trim shall be provided with polished chrome finish.
3. Provide floor drain with manufacturer's condensate funnel at locations where condensate is spilled into drain, coordinate with M.C.
4. Route 1/8" hydrant drain to nearest floor drain in dwelling unit mechanical closet.

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Project 21064 October 2021

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST TOTAL CFM	COLLAR(S) WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY MUA CFM	AC CFM	TOTAL WEIGHT LBS.	SECTION LOCATION
1	KEH-1	GXEW-60-S	60	51	24	430 SS INSIDE EXPOSED	HEAVY	1250			12	1250	0.63	1000		180.877	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	GREASE FILTRATION DETAILS TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	LOCATION	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	MODEL	CONTROLS INTERFACE
1	KEH-1	INCANDESCENT (ELOISE) 150W A19 (BULBS NOT INCL.)	5	50.8	X-TRACTOR STAINLESS STEEL	3 3	16 20	20	LEFT	ANSUL R102	3	GKVC	

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.) L	W	H	INSULATED	DAMPER(S)	LED LIGHT(S) SUPPLIED	QTY	TOTAL CFM	COLLARS TYPE	MOUNTING	QTY	W	L	DIA.	CFM	S.P.	VEL
1	KEH-1	BACK	BSP	72	6	72.75	NO	NO	NO		1000	MUA	FACTORY	1	4	24		1000	0.18	1500

HOOD OPTIONS
- UL710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #MH11726
- FACTORY MOUNTED EXHAUST COLLAR(S)
- BACKSPLASH 32.00 IN HIGH 72.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

FLAT BACKSPLASH PANEL INST. DETAIL

HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

- ☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.
- ☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

BACK SUPPLY PLENUM HANGER BRACKET DETAIL FOR BSP

HOOD HANGER BRACKET DETAIL

28056 WESTERN DISCOUNT BUILDING KVS

KEH-1

PROJECT 9/10/2021 — MARK

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GREENHECK

28056 Western Discount Building KVS

KEH-1 - SPLASH PANEL LAYOUT

PROJECT 9/10/2021 — MARK

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GREENHECK

FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS HOODS	PCU	SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
KEH-1 - FSS	ANSUL R-102 WET CHEMICAL	CABINET – LEFT END OF KEH-1	8 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK	KEH-1 SECTION 1

FIRE SYSTEM OPTIONS AND ACCESSORIES
- FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
- CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
- METAL BLOW-OFF CAPS - INCLUDED
- GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
- HOOD SUPPRESSION TANK - INCLUDED - 3 GAL. - (1) 3.0 TANK[S]
- REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL
1. SYSTEM DISCHARGE TEST VALVE
2. INITIAL SYSTEM GAS PRESSURE
3. SYSTEM DISCHARGE INDICATOR
4. RECHARGE PORT
5. RESERVED FOR WIRING INFORMATION

NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.

CONTRACTOR TO PROVIDE MANUFACTURER NAME, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.

ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS NOTED OTHERWISE ON THE PLANS.

AMBUL AUTHORITY REQUIRE TO BE LOCATED WITHIN 60" OF HOOD.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
(1) 3 GALLON TANK OF WET CHEMICAL (TANK SIZE MAY VARY BY MANUFACTURER QTY TO 3" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
(ACRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO ELECTRIC COOKING EQUIPMENT. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT AND ELECTRICAL POWER BUT DOWN. PIELD WIRING AND CONNECTIONS TO BE MADE BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
(FULL FLOW TEST (TANK THAN NOT IS SPECIFIED PER THE INSTALLATION MANUAL OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE TO BE PAID BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE SCOPE OF FIRE SYSTEM.
ANY AND ALL TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT, LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL WILL BE INCLUDED IN THE PRICE OF THE SYSTEM.
SPECIAL CLEARED OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS
ANY AND ALL NATURAL GAS SHUT-OFF VALVE.
ANY AND ALL ELECTRICAL WORK OTHER THAN WHAT STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR ES APPROVAL STAMP.
LUNCH LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR THE INSTALLATION.
ANY AND ALL ELECTRICAL CONNECTIONS/DISCONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (EXCEPT AS NOTED ABOVE FOR ACRO SWITCH).
ANY MODIFICATIONS OR ALTERATIONS REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION EQUIPMENT AFTER THE SYSTEM IS INSTALLED.
(NOJAVA 66 HOODS CONDUIT FOR REMOTE PULL STATION OR GAS VALVE
(INSTALLATION OF MORE THAN (1) REMOTE PULL STATION OR DISTANCES GREATER THAN 30 FT (9.3M)
(ADDITIONAL LABOR REQUIRED TO CONNECT PIPING DUE TO COOKING EQUIPMENT LOCATIONS BEING MORE THAN 48" FROM END OF HOOD OR FOR ADDITIONAL OFFSETS OR PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

WIRING DIAGRAMS
MICROPOT MICRO SWITCH

MPDT MICRO POTTED TWIN, 5/32"DIA SHAFT, 1/4"-36 HEX NEMA 1 AND 13 RATING, 2 SPDT SWITCHES, 15 AMPS @ 125/250V, 10A @ 277/480V, 1/2 HP @ 125/250V, 1 HP @ 250V, 1 PHASE INSTALLATION

CONNECTION TO BUILDINGS ALARM

CONNECTION TO COOKING EQUIPMENT SHUT DOWN

CONNECTION TO FAN SHUT DOWN

NOTES:
1. ☐ DENOTES FIELD INSTALLATION.
2. ☑ DENOTES FACTORY INSTALLATION.
3. ALL WIRING TO BE IN ACCORDANCE WITH NEC. FOR FACTORY INSTALLATION, ALSO WIRE TO BE USED ONLY FOR EXCHANGE ALARM, CSA P CAN/CSPS, ETC.

28056 WESTERN DISCOUNT BUILDING KVS

KEH-1 - FSS

PROJECT 9/10/2021 — MARK

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GREENHECK

Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION QTY	MARK	MODEL	FAN INFORMATION VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	MOTOR INFORMATION SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDING(S)	NEC FLA*
1	KEF-1	CUE-120-A	1,200	1.222	1,725	0.46	76	0.5	115/60/1	OP	1725	1	9.8

NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory

KEF-1 - SELECTED OPTIONS AND ACCESSORIES
- Standard Curb Cap Size - 19 Square
- UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
- Switch, NEMA-3R, Toggle, Shipped with Unit
- Hinge, Factory Installed
- High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
- Grease Trap (PN 475538)

DUCT TYPE	SIZE
STANDARD	12 SQ
PRE-WRAPPED	8 SQ

DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

28056 WESTERN DISCOUNT BUILDING KVS

KEF-1

PROJECT 9/10/2021 — MARK

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Project 21064 October 2021

EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit — **Mark: MUA-1**

Qty	Manufacturer Model	Volume	External SP	Total SP	Filter(s)	Operating Power	Weight
1	GD-P1G-M2N-NO	1,000 CFM	1 in. wg	1.681 in. wg	1/1Q	0.77 hp	445 lb

Motor Information							
Qty	VOCP	Phase	Electrical	Motor RPM	Wheel(s)	MCA	MOP
1 hp	115MUT	VDP	3ph	1725	1	21.3	30

Heating										
Type	Gas Type	Primary Stg	Sec. Stg	Input	Output	Temp Rise	Efficiency	Ambient Temp	Control Voltage
Direct Gas	Natural	0.67	50.1 F	70.0 K	56.1 MBH	50.0 MBH	80%	0 F	120 PH	1Ph

OPTIONS AND ACCESSORIES

Air Flow Arrangement: Outdoor Air Only
Weatherhood: Aluminum Mesh, Wo/Bird – 25
Base Rail: Galvanized Aluminum, Wo/Skid – 01
Damper Inlet
Outdoor Air Inlets Position: End
Exhaust Air Inlets Position: End
Cowling Galvanized Steel
Insulation: Double Wall – Heat Source On
Duct Work Control: Duct on Inlet Side
Duct Work Control: Duct on Motor
Access Side: Right Hand
Access Door
Freeze Protection
Heat Inlet Air Sensor
Heat Source: Direct Gas Natural Strip
Temperature Control: Discharge
Direct Gas Options/Accessories
Modulating Gas Valve
TW Unmarked
Flame Sensing: Flame Rod
Ignition Control: Pilot

PLAN VIEW

ELEVATION VIEW

END VIEW

NOTE: *Roof Opening Requirements:*

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues. MUA Unit supports are shipped loose with unit.

FOOTPRINT

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED									
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
KEC-1	GKC-CV-S-11-1-1-0	LEFT CABINET ON KEH-1	FULL COLOR TOUCHSCREEN	HOOD – FACE MOUNT LEFT END OF KEH-1 SECTION 1	1	EXHAUST	E1	KEF-1	1	1382	0.5	115	60	1	YES	NO
					2	SUPPLY	S1	MUA-1	1	1000	1	115	60	1	NO	NO

CONTROL FEATURES
HOOD LIGHT CONTROL
TEMP SENSORS (FACTORY INSTALLED) - QTY: 1
DRY FIRE CONTACTS - QTY: 1
LIGHTS OFF DURING FIRE
EXHAUST MAX DURING FIRE
SUPPLY OFF DURING FIRE

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PROJECT/ REVISION: 28056 WESTERN DISCOUNT BUILDING KVS — MARK: MUA-1 / KEC-1

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DIVISION 16 - ELECTRICAL

SECTION 16010 - GENERAL ELECTRICAL REQUIREMENTS

16010.01 The drawings and general provisions of the Contract, including General Conditions, Supplementary General Conditions, and General Requirements apply to the work specified in Division 16 - ELECTRICAL.

16010.02 The Electrical Contract includes all labor, material and equipment required for the complete electrical systems as shown and specified.

16010.03 This contractor is responsible for reviewing ALL drawings to determine extent of coordination required with other trades. Additional offsets, bends, material will not be accepted as a result of un-coordinated work.

16010.04 This contractor is required to perform work in a professional and quality workman like manner. This includes, but is not limited to:
a. Make vertical elements plumb and horizontal elements level unless noted otherwise.
b. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless noted otherwise.
c. Protect work from damage and water during construction. Replace all equipment/material damaged or exposed to water during construction.
d. Clean equipment, interior and exterior, at completion of construction and remove all temporary labels, stains and foreign substances.

16010.05 Each major component of equipment shall have the manufacturer's name, address, model number, and U.L. label securely affixed in a conspicuous place.

16010.06 All equipment of one type (such as panelboards, switches, wiring devices, etc.) shall be the product of one manufacturer, unless specified otherwise.

16010.07 Where the quality of required material is not specified, the Contractor shall furnish a first class standard item as approved by the Architect/Engineer.

16010.08 The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate for the context of requirements. Refer uncertainties to Architect for a decision before proceeding. Where the quality of required material is not specified, the Contractor shall furnish a first class standard item as approved by the Architect/Engineer.

16010.09 Manufacturer's names are intended to establish type and quality of items to be provided via the contract. The materials, products, and equipment described in the specifications or on the drawings establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution. Listing of these manufacturers shall in no way be construed as a device intended to limit the bidders to those specifically listed.

16010.10 Install all equipment in strict accordance with the manufacturer's recommendations and the shop drawings approved by the Engineer.

16010.11 All work under this contract shall conform to the requirements of the National Electrical Code (NFPA 70) and all applicable local, state, and federal code requirements. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Architect for a decision before proceeding.

16010.12 Periodically during construction and prior to Owner acceptance of the building, Contractor shall remove from the premises and dispose of all packing material and debris associated with the Work specified under this Division.

16010.13 Before submitting bid, the Contractor shall visit the actual location of the job and shall fully understand the scope of the work to be done and the condition under which it is to be performed.

16010.14 Electrical Contractor shall coordinate requirements for electrical service with utility company and Landlord, and facilitate installation of such equipment by providing additional electrical installation where required.

16010.15 Procure and pay for all permits and service charges required as related to this Work.

16010.16 Notify the Engineer of errors, discrepancies, or omissions in the drawings and specifications before construction or fabrication of affected work, or failing such notice, be responsible for correction of such work without cost to the Owner, Architect, or Engineer.

16010.17 Where fire rated construction is penetrated by this Work, fire seal at penetrations with UL listed fire sealing system. Refer to Architectural drawings and specifications.

16010.18 Provide Shop Drawings for the following electrical equipment. Refer to Division 1 specifications for submittal process. Electrical equipment listed below shall not be ordered or installed until shop drawings have been submitted and reviewed. Shop Drawings shall include product data indicating performance, dimensions, finish/color and configuration. Include all accessories and installed components.
Meter Center; Panelboards & Load Centers; Light Fixtures (provided by Contractor); Wiring Devices; Lighting Control Devices; Disconnect Switches; Fire Alarm

SECTION 16030 - ELECTRICAL CONNECTIONS

16030.01 The Electrical Contractor shall provide all conduit and wiring and shall connect complete and ready for operation all electrical motors and equipment in the other contracts. The other contractors shall furnish to the Electrical Contractor all switches, electrical controls, capacitors and other accessories required. Installation of all motors, equipment, etc., shall be made by the Contractor furnishing the equipment, except where otherwise indicated.

16030.02 The Electrical Contractor shall provide disconnect switches as shown and where otherwise required to comply with applicable electrical codes.

SECTION 16060 - GROUNDING

16060.01 The entire electrical system, including all special power systems, shall be grounded in accordance with the National Electrical Code.

16060.02 Equipment grounding conductors shall be installed in all conduits. The conduit system shall not be used as the sole means of grounding.

SECTION 16110 - RACEWAYS

16110.01 Provide the conduits and raceways as specified and indicated on the plans.

16110.02 All exterior above grade raceways shall be Galvanized Rigid Metal Conduit (RMC) or Intermediate Metal Conduit (IMC) with threaded couplings and fittings.

16110.03 All exterior below grade conduits and conduits installed below floor slab-on-grade shall be Schedule 40 PVC, Galvanized Rigid Metal Conduit (RMC), or High Density Polyethylene Conduit (HDPE). When utilizing PVC or HDPE, transition to Galvanized RMC before turning up and penetrating finished grade or floor slab.

16110.04 All interior dry location raceways shall be thinwall Electrical Metallic Tubing (EMT) with compression or setscrew couplings and fittings.

16110.05 Flexible Metal Conduit (FMC) may be used for final connections to light fixtures and vibrating equipment in lengths not to exceed 6'-0" and where fished through existing wall construction. Utilize Liquid Tight Flexible Metal Conduit (LFMC) where exposed to moisture.

16110.06 Single conduits shall be used for all circuits, but more than one circuit may be carried in each conduit, provided the number of conductors and size of conductors are proportioned in accordance with the rules of the NEC, and conduits are of ample size to allow for removal and replacement of conductors when necessary. Do not exceed 40% fill.

16110.07 Where conduit is carried in walls, it shall be thoroughly bedded and not visible. In placing conduits, they shall be so located as to not weaken or injure the construction of the building in any way, and the installation of these shall be approved by the Architect.

16110.08 Joints must be made so the ends of the pipes come together in the center of the coupling.

16110.09 All conduit shall be run parallel or perpendicular to the building surfaces.

16110.10 All empty conduit systems shall be provided with suitable pull strings.

SECTION 16120 - BUILDING WIRE AND CABLES

16120.01 Provide the wire and cable as specified and as shown on the drawings. Wire and cable shall be manufactured by Alan Wire, Cerrowire, Encore Wire, General Cable or Southwire.

16120.02 Building wire shall be annealed (soft) copper, #12 AWG minimum, unless noted otherwise. Conductors #10 and smaller shall be solid, #8 and larger shall be stranded. The use of Aluminum conductors is NOT permitted.

16120.03 All building wire shall have Code Type THHN/THWN-2 insulation rated for 90ûC, 600V, and suitable for use in wet or dry locations.

16120.04 Install all building wire in conduit, unless noted otherwise.

16120.05 Wire shall be lubricated with "Polywater," or equally effective cable lubricating material as recommended by wire manufacturer.

16120.06 Machine or power pulling of cables into raceways shall be accomplished such that pulling stresses shall not exceed those recommended by the manufacturer.

16120.07 MC Cable shall have steel or aluminum interlocked armor, THHN/THWN single insulated copper conductors and a green insulated copper equipment grounding/bonding conductor.

16120.08 MC cable may be used ONLY for final connections (whips) to light fixtures in lengths not to exceed 6'-0", and where fished though existing walls. In apartments, MC cable may be used where concealed in walls. All exposed conduit shall be EMT.

16120.09 Low voltage cabling for Class II and III remote control, signaling and power-limited circuits shall be plenum rated or installed in conduit. Sizes and quantities of individual conductors within cables shall be as recommended by manufacturer of system utilizing the circuit.

16120.10 Color code conductors as indicated unless otherwise required by the authority having jurisdiction. Maintain consistent color coding throughout project. Use integrally colored insulation for conductors #6 AWG and smaller. Conductors size #4 AWG and larger may have black insulation color coded using vinyl color coding electrical tape. Color coding shall be as follows:
240/120 V, 1 Phase, 3 Wire System:
- Phase A: Black | Phase B: Red
- Neutral/Grounded: White | Equipment Ground: Green
- Control Circuits: Comply with manufacturer's recommended color code

SECTION 16130 - ELECTRICAL BOXES AND FITTINGS

16130.01 Provide all electrical pull, junction and outlet boxes as specified and shown on the drawings, as well as those required for a complete and code acceptable installation.

16130.02 Junction and pull boxes shall be galvanized metal of the knockout type, and shall be provided throughout in accessible locations.

16130.03 All outlet boxes for light fixtures, receptacles, and wall switches in dry locations shall be of the Steel City, or equal, galvanized knockout type. Lighting fixture outlet boxes in ceiling shall be not less than 4" square of the knockout type. Gangable type boxes shall be used in all gypboard surfaces. Plug unused openings in all boxes.

16130.04 Install boxes for switch and receptacle outlets at the locations shown on the drawings, allowing for relocation of up to 4 feet in any direction if so directed prior to rough-in, without additional cost to the Owner. Boxes shall be flush mounted on all walls for concealed work in occupied/finished areas.

16130.05 Electrical boxes located in 1-hour fire rated walls shall be installed as follows:
A. Boxes shall be U.L. listed for use in fire rated assemblies
B. Annular space around listed boxes shall not exceed 1/8".
C. Boxes on opposite sides of the fire rated wall shall comply with one of the following:
1. Be separated by the horizontal distance specified in the listing of the electrical box.
2. Be separated by fire blocking material in accordance with IBC section 717.2.1.
3. Protect both boxes with listed fire rated putty pads.

16130.06 Electrical boxes located in fire rated ceiling/floor assemblies shall:
A. Be steel construction and not exceed 16 square inches in area
B. Annular space around ceiling boxes shall not exceed 1/8".
C. The aggregate area of ceiling boxes does not exceed 100 square inches for every 100 square feet of ceiling area.

SECTION 16140 - WIRING DEVICES

16143.01 Provide the wiring devices and cover plates as specified.

16143.02 Wiring Devices shall be as manufactured by Pass & Seymour, Leviton, Hubbell, Cooper, or approved equal. Devices for non-residential areas shall be commercial specification grade, rated at 20 amps, 120 volts, unless specified otherwise. Coordinate device color with Architect. Devices shall be as follows:

Switches:	
1-Pole (SPST) Switch	P&S #20AC1_
2-Pole (DPST) Switch	P&S #20AC2_
3-Way switch	P&S #20AC3_
4-Way switch	P&S #20AC4_
1-Pole Keyed Switch	P&S #20AC1_L
Wall Receptacles:	
Duplex Receptacle	P&S #5362_
GFCI Duplex Receptacle	P&S #2095_

Wiring Devices for residential areas specification grade, rated at 15 or 20 amps, 120 volts, unless specified otherwise. Receptacles shall be tamper resistant. Coordinate device color with Architect. Devices shall be as follows:

Switches:	
1-Pole (SPST) Switch	P&S #660_
3-Way switch	P&S #663_
Wall Receptacles:	
Tamper Resistant Duplex Receptacle	P&S #3232TR_
Tamper Resistant GFCI Duplex Receptacle	P&S #1595TR_

16143.03 Terminations at wiring devices shall be made using screw terminals only. Use of "stab-in" connections is not acceptable.

16143.04 All flush-mounted wiring devices in finished areas shall be provided with stainless steel cover plates.

16143.05 Cover plates for wiring devices in surface-mounted boxes and unfinished areas shall be galvanized utility box covers, raised 1/4".

16143.06 Where more than one device is in a single location, utilize a one-piece multigang cover plate.

16143.07 Devices shall be set at the following elevations from the finished floor to the center of the box, unless otherwise indicated on the plans:

Light switches & wall dimmers	48"
Convenience Receptacles	18"

SECTION 16412 - SAFETY SWITCHES

16412.01 Provide safety switches as specified and indicated on the plans. Safety switches shall be manufactured by Square D, Siemens, General Electric, or Eaton Cutler-Hammer.

16412.02 Safety switches shall be NEMA Type HD (heavy duty) and Underwriters Laboratories listed.

16412.03 All switches shall have switchblades, fully visible in the "OFF" position when the switch door is open. All current carrying parts shall be plated to resist corrosion and promote cool operation. Switches shall have removable arc suppressors where necessary to permit easy access to line side lugs. Lugs shall be front removable and U.L. listed for 75ûC aluminum or copper wires. Switches shall be quick-make, quick-break, such that during normal operation of the switch, the operation of the contacts shall not be capable of being restrained by the operating handle after the closing or opening action of the contacts has started. The operating handle shall be an integral part of the box, not the cover. Provisions for padlocking the switch in the "OFF" position shall be provided. Switches shall have a dual cover interlock to prevent unauthorized opening of the switch door when the handle is in the "ON" position, and to prevent closing of the switch mechanism with the door open. The handle position shall indicate whether the switch is "ON" or "OFF."

16412.04 Switches shall be furnished with enclosures as indicated on the Drawings. If NEMA designation is not given, indoor enclosures shall be NEMA 1, outdoor enclosures shall be NEMA 3R.

SECTION 16442 - PANELBOARDS

16442.01 Provide Square D, Siemens, General Electric, or Eaton Cutler Hammer, 1-phase, 3-wire panelboards with circuit breakers as scheduled.

16442.02 Provide panels with equipment ground bars, surface mounted or recessed cabinets as scheduled, and U.L. label.

16442.03 Circuit breakers shall be plug-in or bolt-on, thermal-magnetic molded case type. Breakers shall be 1 or 2-pole with an integral crossbar to assure simultaneous opening of all poles in multi-pole circuit breakers. Breakers shall have an over-center, trip-free, toggle-type operating mechanism with quick-make, quick-break action and positive handle indication. Handles shall have "ON," "OFF" and "TRIPPED" positions. Circuit breakers shall be UL listed in accordance with UL Standard 489 and shall have continuous current ratings as noted on the plans. Interrupting ratings shall be 10,000 rms symmetrical amps maximum at 240 volts ac and 14,000 rms symmetrical amps maximum at 480 volts ac.

16442.04 Panelboard bus structure and main lugs or main circuit breaker shall have current ratings as scheduled. Such ratings shall be established by heat rise tests, conducted in accordance with UL Standard 67. Bus structure shall be insulated. Bus bar connections to the branch circuit breakers shall be the "distributed phase" type. All current carrying parts of the bus structure shall be plated.

16442.05 The panelboard bus assembly shall be enclosed in a steel cabinet. The rigidity and gauge of steel to be as specified in UL Standard 50 for cabinets. Wiring gutter space shall be in accordance with UL Standard 67 for panelboards. The box shall be fabricated from galvanized steel or equivalent rust resistant steel. Each front shall include a door and have a flush, cylinder tumbler-type lock with catch and spring-loaded stainless steel door pull. All panelboard locks shall be keyed alike. Fronts shall have adjustable indicating trim clamps which shall be completely concealed when the doors are closed. Doors shall be mounted with completely concealed steel hinges. Fronts shall not be removable with door in the locked position. A circuit directory frame and card with a clear plastic covering shall be provided on the inside of the door.

16442.06 Inside each panel door, provide an approved typewritten schedule card showing what each circuit feeds. Provide each panelboard with an engraved plastic laminate nameplate with black background and 1/4" white letters to designate panel name.

SECTION 16510 - LIGHT FIXTURES

16510.01 Provide the light fixtures as specified and scheduled on plans. Material, equipment or services necessary to complete the installation of these fixtures, but not specifically mentioned shall be furnished as though specified.

16510.02 This Contractor shall check the fixtures carefully against the wiring plans, and furnish a unit of proper size and type.

16510.03 Lamps shall be provided by the electrical contractor in sizes and types as indicated. Lamps shall be manufactured by Philips, Osram Sylvania, or General Electric.

16510.04 Fluorescent ballasts shall be manufactured by Advance, Osram Sylvania or Universal. Ballasts shall be solid state, with <10% total harmonic distortion, minimum 95% power factor, universal 277/120 volts, and with normal ballast factor. Electronic ballasts shall come with a 5 year warranty provided direct to the owner. If the ballast fails within the warranty period, the ballast manufacturer will provide a replacement ballast free of charge and shall provide a labor allowance to cover the cost of ballast installation.

16510.05 LED FIXTURES - Comply with UL 1598. Test according to IESNA LM 80-08, where life expectancy is specified. Provide luminaires with the following characteristics unless otherwise noted:
Life: 50,000 hours minimum interior/100,000 hours minimum exterior
Efficacy: 50 lumens/watt
CRI: 80 minimum interior/70 minimum exterior
MacAdam ellipse: 4-step minimum per ANSI recommendations

Approved Manufacturers: Provide products of firms regularly engaged in the manufacture of recessed lighting fixtures of types and ratings required, whose products have been in satisfactory use in similar service for not less than 5 years. The manufacturer of the lighting fixtures shall comply with the provisions of the appropriate code and standards.

UL or CSA US Listing: All fixtures shall be manufactured in strict accordance with the appropriate and current requirements of the ôStandards for Safety" to UL 8750 or others as they may be applicable. A listing shall be provided for each fixture type, and the appropriate label or labels shall be affixed to each fixture in a position concealing it from normal view.

LED's shall be manufactured by, Nichia, Samsung, LG, Osram, Philips or Cree.

a) Individual LEDs shall be connected such that a catastrophic loss or the failure of one LED will not result in the loss of the entire luminaire

b) LED Boards shall be suitable for field maintenance or service from below the ceiling with plug-in connectors.

LED driver's shall be manufactured by eldoLED, Osram, Philips or Cree.

The manufacturer shall provide a warranty against loss of performance and defects in materials and workmanship for the Luminaires for a period of 5 years after acceptance of the Luminaires. Warranty shall cover all components comprising the luminaire.

SECTION 16740 - TELEPHONE/DATA RACEWAY SYSTEM

16740.01 Provide the telephone/data raceway system as specified and shown.

16740.02 Outlets in walls shall be 4 x 4 x 2 boxes with single gang plaster ring and blank cover plate.

16740.03 All wiring punchdown blocks, building service copper and fiber optic cables will be furnished and installed by the Owner's Telecommunications Contractor. All phone and computer devices, floor and wall jacks will be provided by the Owner's Telecommunications Contractor for all activated outlets.

SECTION 16851 - FIRE SPRINKLER MONITORING SYSTEM

16851.01 Provide new addressable alarm control panel with remote dial capabilities to monitor the fire sprinkler system. System shall be UL listed and operate at 24vDC.

16851.02 Alarm signal shall be activated by sprinkler system flow switch.

16851.03 Supervisory signal shall be activated by sprinkler system tamper switch.

16851.04 Trouble signal shall be activated by open circuits, low battery, loss of power, battery charging failure.

16851.05 Contractor shall include as part of his bid one year remote monitoring service of alarm system.

CIRCUIT AND RACEWAY SYMBOLS

- CIRCUIT DESIGNATION: TOP INDICATES PANEL OF CIRCUIT ORIGIN; BOTTOM INDICATES CIRCUIT NUMBER
- HOMERUN - WIRING TO PANEL OF CIRCUIT ORIGIN
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING
- CONDUIT BELOW GRADE OR EMBEDDED IN CONCRETE
- LINE VOLTAGE CIRCUIT CONDUCTORS: SHORT = HOT/TRACER/SWITCH LEG CONDUCTOR; LONG = NEUTRAL (GROUNDED) CONDUCTOR; CURVED = GROUNDING (BONDING) CONDUCTOR
- CONDUIT STUB OUT WITH NYLON END BUSHING
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- GROUNDING CONNECTION

LIGHTING SYMBOLS

- 5-BLADE CEILING FAN
- STANDARD STRIP LIGHT
- RECESSED DOWNLIGHT
- WALL MOUNTED LUMINAIRE
- VANITY LIGHT
- TWIN HEAD EMERGENCY LIGHTING UNIT
- COMBINATION EXIT/TWIN HEAD EMERGENCY LIGHTING UNIT
- WEATHERPROOF EXTERIOR REMOTE EMERGENCY HEAD - WALL AND CEILING MOUNTED
- SINGLE FACE EXIT SIGN - WALL AND CEILING MOUNTED WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS
- DOUBLE FACE EXIT SIGN - WALL AND CEILING MOUNTED WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS

POWER SYMBOLS

- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- # SPECIAL RECEPTACLE (# = NEMA CONFIGURATION)
- SINGLE POLE WALL SWITCH
- $_2$ TWO POLE WALL SWITCH
- $_3$ THREE WAY WALL SWITCH
- $_{DT}$ SINGLE POLE, DOUBLE THROW (SPDT) SWITCH (CENTER OFF)
- $_m$ MOTOR HP RATED SWITCH WITHOUT OVERLOAD PROTECTION
- JUNCTION BOX
- MOTOR
- DISCONNECT SWITCH
- BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED
- BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED

SPECIAL SYSTEMS SYMBOLS

- PHONE OUTLET
- CATV OUTLET
- FSMP FIRE SPRINKLER MONITORING PANEL
- PHOTOELECTRIC SMOKE DETECTOR
- FIRE SPRINKLER SYSTEM FLOW SWITCH
- FIRE SPRINKLER SYSTEM TAMPER SWITCH
- FIRE SPRINKLER BELL/GONG
- 120V SMOKE ALARM WITH BATTERY BACKUP

SYMBOL MODIFYING DESIGNATORS

CLG	CEILING MOUNTED • FLUSH MOUNTED IN SUSPENDED CEILINGS • SURFACE MOUNTED TO STRUCTURE ABOVE IN OPEN CEILINGS
CT	MOUNT BOTTOM OF DEVICE AT 6" ABOVE COUNTERTOP
GFI	GROUND FAULT CIRCUIT INTERRUPTING DEVICE
NL	NIGHTLIGHT WIRED TO UNSWITCHED HOT CONDUCTOR
WP	PROVIDE WEATHERPROOF ENCLOSURE FOR DEVICE
XX"	MOUNTING HEIGHT OF DEVICE ABOVE FINISHED FLOOR

ABBREVIATIONS

A	AMPERES OR AMPS
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
EC	ELECTRICAL CONTRACTOR
G	GROUNDING (BONDING) CONDUCTOR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON FUSED
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PH or Φ	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
RCPT	RECEPTACLE
SPDT	SINGLE POLE, DOUBLE THROW
T	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
U.L.	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VA	VOLT-AMPS
W	WATT(S)

1 ELECTRICAL SPECIFICATIONS
NO SCALE

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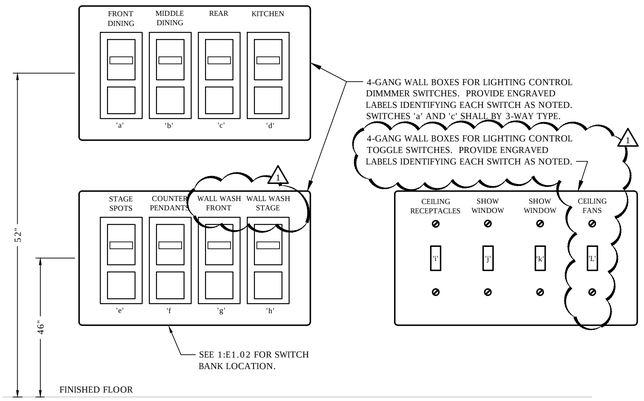


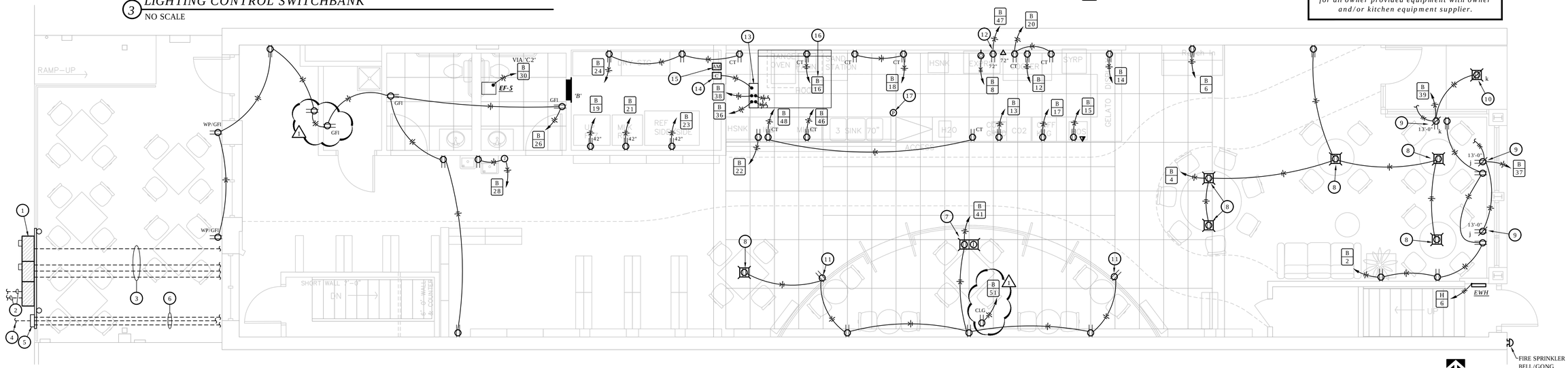
3 LIGHTING CONTROL SWITCHBANK

NO SCALE

NOTES BY SYMBOL

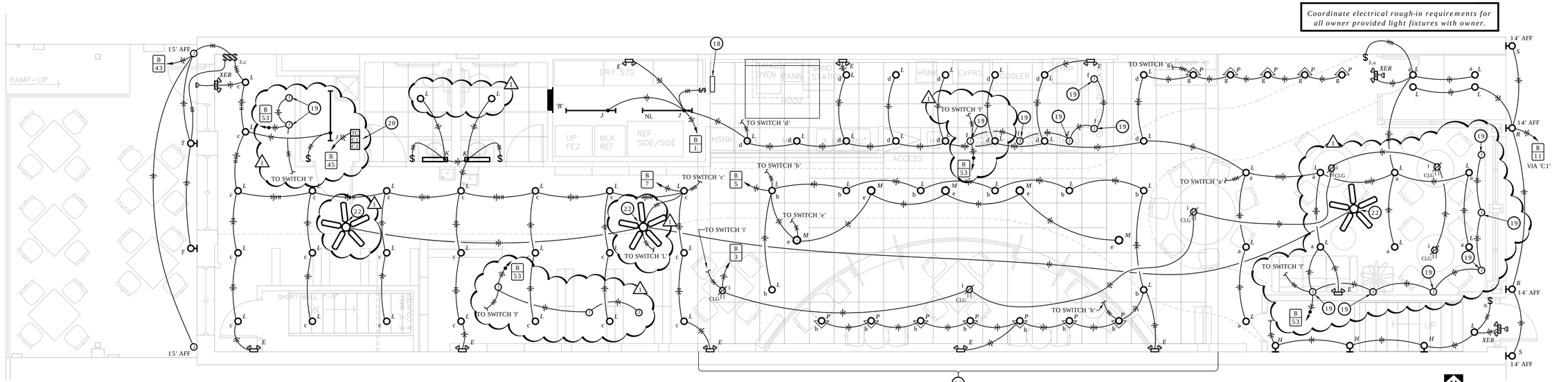
1. METER CENTER MOUNTED ON STEEL FRAME. SEE RISER DIAGRAM ON SHEET E4. COORDINATE FINAL LOCATION WITH UTILITY PROVIDER PRIOR TO ROUGH-IN.
2. UNDERGROUND CONDUITS FOR WESTAR PROVIDED SERVICE CABLING. SEE RISER DIAGRAM ON SHEET E4.
3. ROUTE FEEDERS FROM METERS BELOW GRADE AND INTO BASEMENT. SEE RISER DIAGRAM ON SHEET E4 FOR MORE INFORMATION.
4. PROVIDE CONDUITS WITH PULL STRING AS REQUIRED FOR TELECOMM SERVICE. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER.
5. MOUNT TELECOMM SERVICE BOX TO UNISTRUT FRAME. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY PROVIDER.
6. ROUTE (3) 2" CONDUITS WITH PULL STRING FROM TELECOMM SERVICE INTO BASEMENT.
7. 2-GANG STEEL RECESSED FLOOR BOX. PROVIDE WITH ONE DUPLEX RECEPTACLE AND ONE SPACE FOR MICROPHONE CONNECTOR. COORDINATE EXACT REQUIREMENTS AND DEVICE COVER FINISH WITH OWNER AND ARCHITECT. VERIFY EXACT BOX LOCATION WITH OWNER PRIOR TO COMMENCING WORK .
8. SINGLE GANG STEEL RECESSED FLOOR BOX WITH ONE DUPLEX RECEPTACLE. COORDINATE EXACT REQUIREMENTS AND DEVICE COVER FINISH WITH OWNER AND ARCHITECT. VERIFY EXACT BOX LOCATION WITH OWNER PRIOR TO COMMENCING WORK .
9. INSTALL SWITCHED RECEPTACLE ABOVE WINDOW.
10. INSTALL SWITCHED RECEPTACLE IN ALCOVE FLOOR ABOVE MAIN ENTRY.
11. INSTALL RECEPTACLE IN FACE OF STAGE STEP.
12. PROVIDE POWER AND DATA FOR DIGITAL MENU BOARD. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.
13. HOOD CONTROL PANEL. PROVIDE 120V INTERCONNECTING WIRING TO HOOD LIGHTS, NATURAL GAS SOLENOID VALVE, HOOD FIRE SUPPRESSION SYSTEM MICRO-SWITCH, AND HOOD MOUNTED LIGHT AND FAN SWITCHES PER MANUFACTURER'S WIRING DIAGRAM.
14. CONTACTOR FOR SHUT-DOWN OF ELECTRICAL ITEMS UNDER HOOD. SEE DETAIL 2, SHEET E4.
15. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM MONITORING MODULE TO MONITOR STATUS OF HOOD CONTROL PANEL.
16. ROUTE CIRCUIT THROUGH CONTACTOR FOR SHUT-DOWN CONTROL.
17. VERIFY FINAL LOCATION OF HOOD PULL STATION WITH AUTHORITY HAVING JURISDICTION. SEE 3:E4 FOR MORE INFORMATION.
18. LIGHTING SWITCHBANK LOCATION. SEE DETAIL 3, THIS SHEET, FOR MORE INFORMATION.
19. INSTALL OWNER PROVIDED DECORATIVE PENDANT. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.
20. REFERENCE LIGHTING CONTROL DETAIL 4:E4 FOR MORE INFORMATION.
21. COORDINATE FINAL LOCATION OF LIGHT FIXTURES IN TIN CEILING WITH ARCHITECT.
22. INSTALL CEILING FAN PROVIDED BY OWNER.

Coordinate electrical rough-in requirements for all owner provided equipment with owner and/or kitchen equipment supplier.



2 1ST FLOOR POWER PLANS

1/4" = 1'-0"



1 1ST FLOOR LIGHTING PLANS

1/4" = 1'-0"

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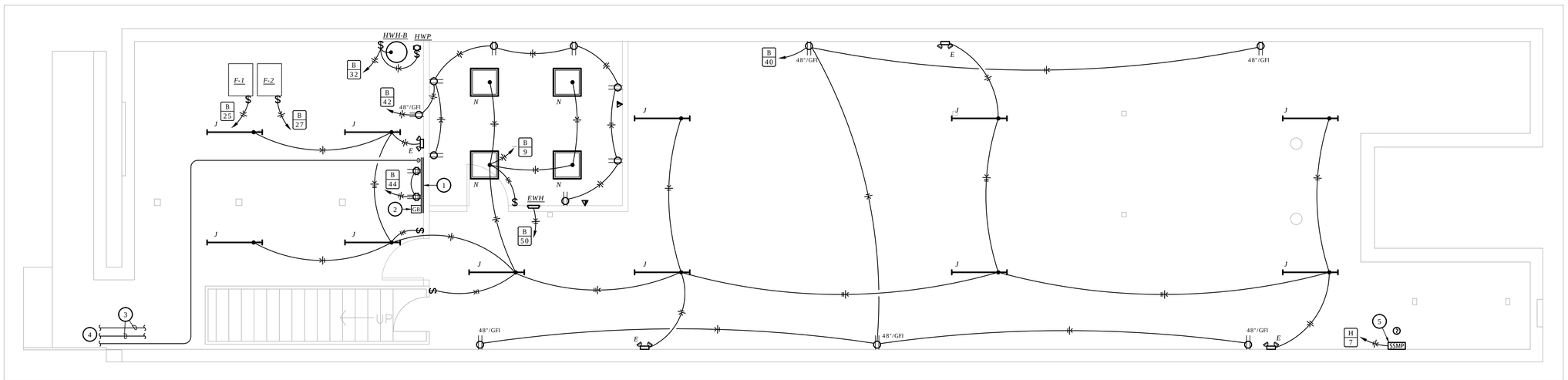
Project 21064 October 2021

ELECTRICAL PLAN NOTES BY SYMBOL

1. PROVIDE 4'Wx8"Tx3/4" ACX FIRE RETARDANT PLYWOOD SHEET INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
2. PROVIDE 4"W x 15-1/2" L GROUND BAR EQUAL TO ERICO #TMGBA16L19PT. ALL CONNECTIONS TO GROUNDING BUSBAR SHALL BE MADE USING COMPRESSION TYPE LUGS (BURNDY 'YAL' SERIES OR EQUAL). CONNECT #6 CU INTERSYSTEM BONDING JUMPER FROM GROUNDING BUSBAR TO PANEL 'A' GROUND BUS PER NEC 250.94.
3. ROUTE 2" CONDUIT TO TELECOMM DEVICE IN APARTMENT MECH CLOSET. SEE SHEET E3 FOR MORE INFORMATION.
4. SEE E1 FOR CONTINUATION.
5. FIRE SPRINKLER SYSTEM MONITORING PANEL. SEE SPECS ON SHEET E0. PROVIDE 3/4" CONDUIT TO TELEPHONE SERVICE POINT AT BACK OF BUILDING.



1 BASEMENT ELECTRIC PLAN

1/4" = 1'-0"

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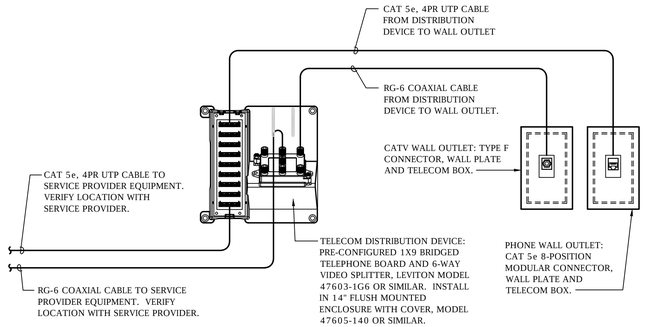


2 APARTMENT TELECOM WIRING SCHEMATIC

NO SCALE

PANEL SCHEDULE NOTES BY SYMBOL

1. PROVIDE ARC FAULT CIRCUIT INTERRUPTING BREAKER.
2. CIRCUIT SHALL BE PROTECTED BY COMBINATION AFCI/GFCI TYPE BREAKER.

Panel Designation: A1/A2 **Mounting:** Flush
Location: Apartments **Bus Amps:** 150
Voltage: 208/120V-1Ph-3W **MCB Amps:** MLO
Enclosure: NEMA 1 **Other:** 10 KAIC

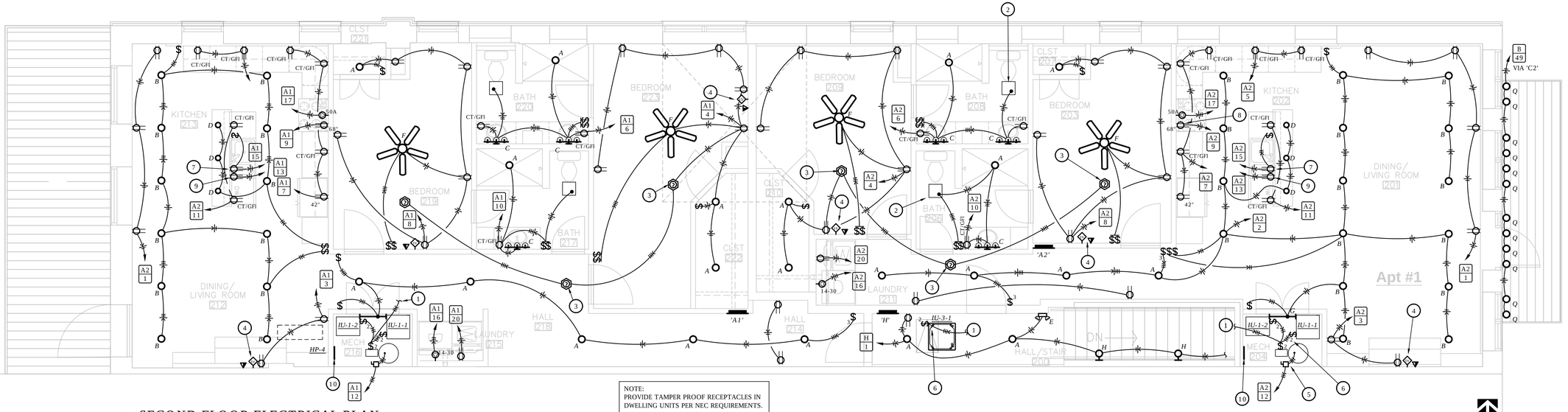
	Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #	
1	1	Dining/Living Room	(2)#12,#12G	20 / 1	20 / 1	(2)#12,#12G	Dining/LR/Kitchen Lts	2	1
1	3	Dining/Living Room	(2)#12,#12G	20 / 1	20 / 1	(2)#12,#12G	Master Bedroom	4	1
2	5	Kitchen Receptacles	(2)#12,#12G	20 / 1	20 / 1	(2)#12,#12G	Master Bathroom	6	
2	7	Kitchen Receptacles	(2)#12,#12G	20 / 1	20 / 1	(2)#12,#12G	Bedroom	8	1
2	9	Hood	(2)#12,#12G	20 / 1	20 / 1	(2)#12,#12G	Bathroom	10	1
2	11	Kitchen Receptacles	(2)#12,#12G	20 / 1	30 / 2	(2)#10,#10G	Water Heater	12	
2	13	Dishwasher	(2)#12,#12G	20 / 1				14	
2	15	Garbage Disposer	(2)#12,#12G	20 / 1	30 / 2	(2)#10,#10G	Clothes Dryer	16	
	17	Range	(3)#6,#10G	50 / 2				18	
	19				20 / 1	(2)#12,#12G	Clothes Washer	20	2
	21	Space	---	---	50 / 2	(2)#6,#10G	Heat Pump	22	
	23	Space	---	---				24	
	25	Space	---	---	---	---	Space	26	
	27	Space	---	---	---	---	Space	28	
	29	Space	---	---	---	---	Space	30	

ELECTRICAL NOTES BY SYMBOL

NOTES SHOWN ARE TYPICAL FOR ALL APARTMENTS WHERE APPLICABLE.

- VERIFY EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED OR SELECTED BY OWNER.

1. ROUTE POWER AND CONTROL CIRCUITRY TO HEAT PUMP ON ROOF. SEE SHEET ME1 FOR CONTINUATION.
2. CONNECT EXHAUST FAN PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. LIGHTS AND FAN TO BE CONTROLLED INDEPENDENTLY.
3. CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH BATTERY BACKUP AND SHALL BE INTERCONNECTED TO OTHERS IN THE SAME APARTMENT.
4. COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER. FOR EACH LOCATION, PROVIDE SINGLE GANG BOX WITH APPROPRIATE CABLE TO TELECOM DISTRIBUTION DEVICE IN MECHANICAL CLOSET.
5. PROVIDE 30A/2P DISCONNECT SWITCH AND CONNECT WATER HEATER.
6. PROVIDE 2P AND CONNECT HEAT PUMP INDOOR UNITS AND BRANCH CONTROLLER. PROVIDE REQUIRED CIRCUITRY BETWEEN INDOOR UNITS, BRANCH CONTROLLER, AND OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER.
7. PROVIDE SWITCHED RECEPTACLE BELOW COUNTER FOR DISPOSAL OPERATION.
8. CONNECT RANGE HOOD/MICROWAVE PROVIDED BY OTHERS. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
9. PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED. LOCATE RECEPTACLE IN AN ACCESSIBLE LOCATION BENEATH KITCHEN SINK.
10. PROVIDE 12"W x 24"H x 3/4" PLYWOOD BACKBOARD FOR TELEPHONE AND CATV CONNECTIONS. PROVIDE SERVICE CABLE AS REQUIRED FROM BACKBOARD TO MAIN SERVICE BOX AT BUILDING EXTERIOR. COORDINATE WITH UTILITY PROVIDER.PROVIDE T&B 1BT3CB INTERSYSTEM BONDING CONNECTOR AND PROVIDE GROUNDING IN ACCORDANCE WITH NEC 250.



NOTE:
PROVIDE TAMPER PROOF RECEPTACLES IN DWELLING UNITS PER NEC REQUIREMENTS.

1 SECOND FLOOR ELECTRICAL PLAN

1/4" = 1'-0"

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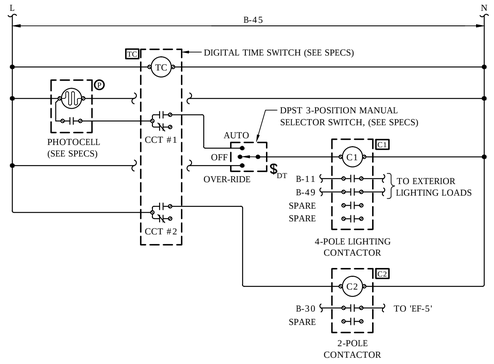
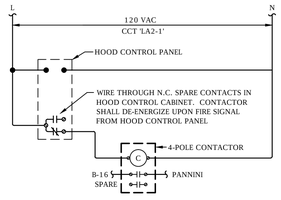


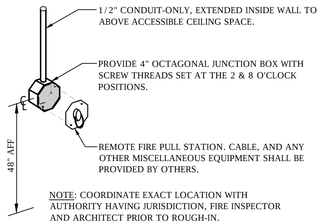
4 LIGHTING CONTROL DIAGRAM

No Scale



2 HOOD EQUIPMENT SHUT-DOWN

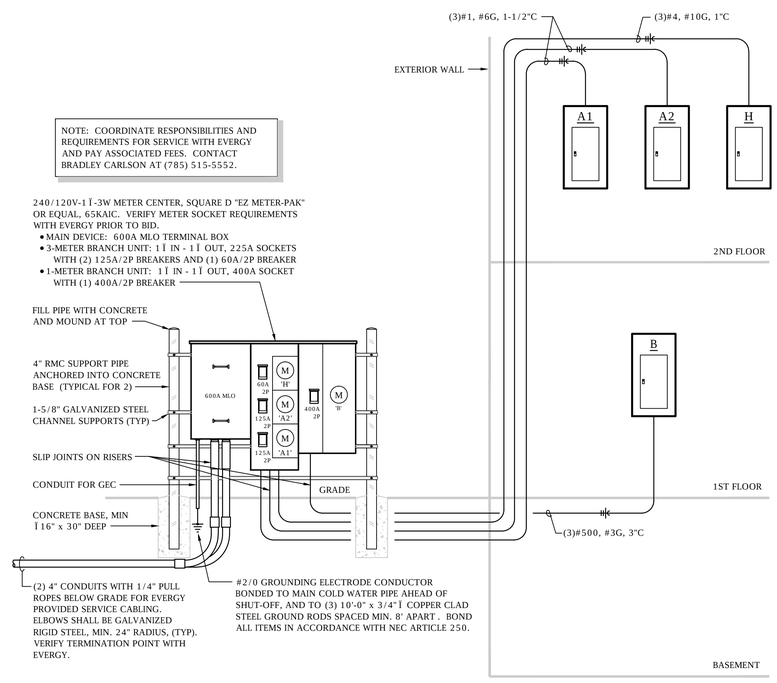
No Scale



NOTE: COORDINATE EXACT LOCATION WITH AUTHORITY HAVING JURISDICTION, FIRE INSPECTOR AND ARCHITECT PRIOR TO ROUGH-IN.

3 REMOTE HOOD FIRE PULL STATION

No Scale



1 ELECTRICAL RISER DIAGRAM

NO SCALE

Panel Designation: B — **Mounting:** Flush
Location: Kitchen Storage — **Bus Amps:** 400
Voltage: 240/120V-1Ph-3W — **MCB Amps:** MLO
Enclosure: NEMA 1 — **Other:** 10 KAIC

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	LIGHTING - KITCHEN/ FRONT DINING	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPT - FRONT DINING	2
3	LIGHTING - SWITCHED CEILING RECEPTS	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPT - FRONT DINING FLOOR BOXES	4
5	LIGHTING - CENTER DINING/STAGE	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	REACH IN REFRIGERATOR	6
7	LIGHTING - BACK DINING/RR	2#12,#12G,1/2"C	20 / 1	30 / 2	2#10,#12G,1/2"C	ESPRESSO	8
9	LIGHTING - BASEMENT	2#12,#12G,1/2"C	20 / 1				10
11	LIGHTING - EXTERIOR	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	COOLER	12
13	COFFEE GRINDER	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	GELATO DISPLAY	14
15	POINT OF SALE	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	PANINI GRILL	16
17	COFFEE KEGERATOR	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - COUNTERTOP	18
19	UPRIGHT FREEZER	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - COUNTERTOP	20
21	MILK REFRIGERATOR	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	ICE MACHINE	22
23	REFRIGERATOR	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - STORAGE	24
25	FURNACE 'F-1'	2#12,#12G,1/2"C	15 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - RR/JANITOR	26
27	FURNACE 'F-2'	2#12,#12G,1/2"C	15 / 1	20 / 1	2#12,#12G,1/2"C	RECEPT - EWC	28
29	CONDENSING UNIT 'CU-1'	2#6,#10G,3/4"C	50 / 2	20 / 1	2#12,#12G,1/2"C	EF-5	30
31				20 / 1	2#12,#12G,1/2"C	HWH-'B'/'HWP'	32
33	CONDENSING UNIT 'CU-2	2#6,#10G,3/4"C	50 / 2	35 / 1	2#8,#10G,3/4"C	MUA-1	34
35				20 / 1	2#12,#12G,1/2"C	KEF-1	36
37	RECEPT - SHOW WINDOW	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	HOOD CONTROLS/LIGHTS	38
39	RECEPT - SHOW WINDOW	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - BASEMENT	40
41	RECEPTS - STAGE	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - BASEMENT OFFICE/MECH.	42
43	EXT. PATIO LIGHTING	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS -TELECOM BOARD	44
45	LIGHTING CONTROLS	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPT - MICROWAVE	46
47	RECEPT - MENU BOARD	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	RECEPTS - COUNTERTOP	48
49	EXT. CANOPY LIGHTS	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12,#12G,1/2"C	ELECTRIC WALL HEATER	50
51	SIGN RECEPT.	2#12,#12G,1/2"C	20 / 1	--	--	SPACE	52
53	LTS - PENDANTS	2#12,#12G,1/2"C	20 / 1	--	--	SPACE	54

PANEL SCHEDULE NOTES BY SYMBOL

1. PROVIDE LOCK ON CLIP FOR BREAKER.

Panel Designation: H — **Mounting:** Flush
Location: Hall/Stair — **Bus Amps:** 100
Voltage: 240/120V-1Ph-3W — **MCB Amps:** MLO
Enclosure: NEMA 1 — **Other:** 10 KAIC

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	Upper Floor Lighting	2#12,#12G,1/2"C	20 / 1	15 / 2	2#12,#12G,1/2"C	Heat Pump	2
3	Rooftop Service Receptacles	2#12,#12G,1/2"C	20 / 1				4
5	Spare	--	20 / 1	20 / 2	2#12,#12G,1/2"C	Heater	6
1 7	Fire Sprinkler Monitor Panel	2#12,#12G,1/2"C	20 / 1				8
9	Spare	--	20 / 1	--	--	Space	10
11	Spare	--	20 / 1	--	--	Space	12
13	Space	--	--	--	--	Space	14
15	Space	--	--	--	--	Space	16
17	Space	--	--	--	--	Space	18
19	Space	--	--	--	--	Space	20
21	Space	--	--	--	--	Space	22
23	Space	--	--	--	--	Space	24

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	LAMP / LED DATA		BALLAST/DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
			LUMENS	COLOR					
A	HALO	SMD6R-6-930-WH-SMD6RTRMWH	600	3000ïK	INTEGRAL DRIVER	RECESSED	PAINTABLE COORDINATE WITH ARCHITECT	6" ROUND LED DOWNLIGHT	4
B	HALO	SMD6R-6-930-WH-SMD6RTRMWH	600	3000ïK	INTEGRAL DRIVER	EXPOSED	PAINTABLE COORDINATE WITH ARCHITECT	6" ROUND LED DOWNLIGHT	3
C	OWNER SELECTED	----	---	3000ïK	INTEGRAL DRIVER	WALL AT 7'-0"	---	VANITY LIGHT SELECTED BY OWNER, INSTALLED BY E.C.	.
D	OWNER SELECTED	----	---	3000ïK	INTEGRAL DRIVER	PENDANT	---	DECORATIVE PENDANT SELECTED BY OWNER, INSTALLED BY E.C.	.
E	SURE-LITES	SEL25SD	---	WHITE	N/A	WALL AT 7'-6" AFF	WHITE	TWIN HEAD POLYCARBONATE EMERGENCY LIGHT	1,2
F	MINKA AIRE	F656L	2,300	3000ïK	INTEGRAL DRIVER	SURFACE	WHITE	52" 5-BLADE CEILING FAN WITH 3-SPEED PULL CHAIN; UMBER ETCHED GLASS LIGHT SHADE	.
G	METALUX	2SNLED-LD4-26SL-LN-UNV-L830-CD1-U	2,700	3000ïK	INTEGRAL DRIVER	SURFACE WALL	WHITE	2' LED STRIP WITH FROSTED LENS	.
H	---	SELECTED BY OWNER, PRODUCED BY E.C.	---	3000ïK	INTEGRAL DRIVER	PENDANT	---	DECORATIVE WALL SCONCE SELECTED BY OWNER, INSTALLED BY E.C.	.
J	COLUMBIA	LCL4-30HL-EU	6185	3000ïK	FIXED OUTPUT	SURFACE	WHITE	4 FOOT LED STRIP WITH FROSTED LENS	
1 *K*	---	SELECTED BY OWNER, PROVIDED BY E.C.	---	---	---	SURFACE	---	DECORATIVE WALL SCONCE	
L	HALO	SMD6R12930WHE	1200	3000ïK	0-10 V DIMMING	SURFACE	WHITE	6" ROUND LED DOWNLIGHT	
M	BRUCK	350442-40LM-30K-90-38-120-ELV-WH-MPWH	3450	3000ïK	PHASE DIMMING	PENDANT	WHITE	LED SPOTLIGHT WITH MEDIUM ANGLE DISTRIBUTION, PENDANT MOUNT ON 24" STEM	
N	COLUMBIA	CBT22-LS35	2970	3500ïK	0-10 V DIMMING	LAY-IN	WHITE	2x4 LED FLAT PANEL WITH SWITCHABLE LUMENS	
P	INTENSE	SD4WRL530-D101 IC437HZ-SF	2500	3000ïK	0-10 V DIMMING	RECESSED	---	4" ROUND LED WALL WASH DOWNLIGHT	
Q	---	SELECTED BY OWNER, PRODUCED BY E.C.	---	---	FIXED OUTPUT	SURFACE	---	LED EDISON STYLE LAMP SELECTED BY OWNER	
R	LUMINIS	SQ600-L1L20NR-R9-120V-K3	1690	3000ïK	FIXED OUTPUT	SURFACE WALL	---	DIE-CAST DIRECTIONAL FACADE LIGHT, 9ï NARROW DOWN, FINISH SELECTED BY ARCH.	7
S	LUMINIS	SQ602-L2L15NR-R9-120V-2K3	3144	3000ïK	FIXED OUTPUT	SURFACE WALL	---	DIE-CAST DIRECTIONAL FACADE LIGHT, 9ï NARROW UP/DOWN, FINISH SELECTED BY ARCH.	7
T	HUBBELL	TRP1-12L-20-3K7-3-UNV	2050	3000ïK	FIXED OUTPUT	SURFACE WALL	---	TRAPEZOID DIE-CAST LED WALL PACK, TYPE III DISTRIBUTION, FINISH SELECTED BY ARCH.	7
X	SURE-LITES	LPX7SD	---	RED LED	N/A	UNIVERSAL	WHITE	SINGLE FACE POLYCARBONATE LED EXIT	1,2
XER	SURE-LITES	LPXH7DHSD + 6T8WWH	--- 2 1	RED LED 6V 5.4W 6V 8W	N/A	UNIVERSAL	WHITE	COMBO EXIT/EMERGENCY LIGHTING UNIT WITH SINGLE REMOTE	1,2,5

GENERAL:

- All interior LED fixtures shall be 3000°K corrected color temperature, min. 90 CRI.
- All light fixtures shall be provided with universal drivers capable of operating at 120V or 208V UNO.
- All LED fixtures shall adhere to LM79 and LM80 standards.

NOTES:

1. Fixture shall have self-diagnostic/self-testing electronics.
2. Provide with emergency battery integral charger.
3. Mount fixture flush with bottom of exposed structure. Coordinate mounting with existing structure.
4. Fixture shall be UL listed for use above showers where applicable.
5. Install remote head on exterior wall above door and connect to unit per manufacturer's instructions.
1 6. NOT USED.
7. U.L. listed for 'wet location'

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REVISIONS:
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