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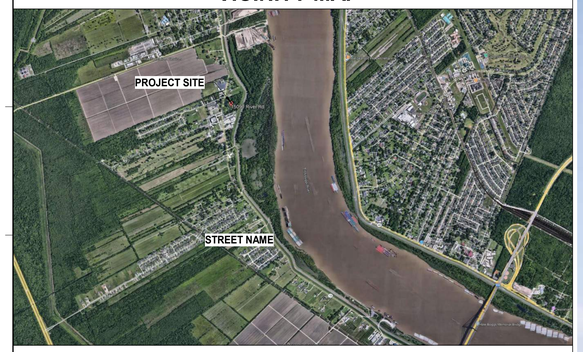

PROJECT DESCRIPTION

THE PROJECT IS A NEW CONSTRUCTION SINGLE STORY LIBRARY CONSISTING OF A LA HISTORY ROOM, AN ADULT BOOK SECTION, A TEEN BOOK SECTION, A CHILDREN'S BOOK SECTION, FOUR STUDY ROOMS, 2 MEETING ROOMS, ADMINISTRATIVE SPACES AND ANCILLARY SPACES.

PROJECT DIRECTORY

OWNER
ST. CHARLES PARISH LIBRARY
160 WEST CAMPUS DRIVE
PO BOX 1029, DESTREHAN, LA 70047
985.764.2366

ARCHITECT
GRACE HEBERT CURTIS ARCHITECTS, LLC
601 POYDRAS ST. STE 2310
NEW ORLEANS, LA 70130
504.522.2050

STRUCTURAL ENGINEER
FOX-NESBIT ENGINEERING, LLC
1515 POYDRAS ST STE. 1020
NEW ORLEANS, LA 70112
504.500.9640

MECHANICAL ENGINEER
GRACE HEBERT CURTIS ARCHITECTS, LLC
601 POYDRAS ST. STE 2310
NEW ORLEANS, LA 70130
504.522.2050

ELECTRICAL ENGINEER
HUSEMAN & ASSOCIATES
3501 N. CAUSEWAY BLVD. #710
METAIRE, LA 70002
504.456.3119

CIVIL ENGINEER
FOX-NESBIT ENGINEERING, LLC
1515 POYDRAS ST STE. 1020
NEW ORLEANS, LA 70112
504.500.9640

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SEE SHEETS G001/G002 FOR GENERAL NOTES APPLICABLE TO THE ENTIRE DRAWING SET

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SHEET NUMBER

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GENERAL NOTES

GENERAL

1. ARCHITECTURAL DOCUMENTS SHALL BE COORDINATED WITH ALL OTHER DISCIPLINES' DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DOCUMENTS SHOULD BE REPORTED TO THE ARCHITECT FOR CLARIFICATION AND VERIFICATION PRIOR TO PROCUREMENT OR INSTALLATION OF AFFECTED WORK.
2. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH AFFECTED WORK.
3. PROTECT ALL MATERIALS, CONSTRUCTION, UTILITIES AND FACILITIES FROM DAMAGE, INCLUDING BUT NOT LIMITED TO CONSTRUCTION ACTIVITIES, THEFT, MOISTURE, AND WEATHER. DAMAGED ELEMENTS AND CONDITIONS SHALL BE REPAIRED / REPLACED AT NO COST TO OWNER.
4. DO NOT SCALE ANY DRAWINGS IN ANY OF THE DOCUMENTS FOR FIELD LAYOUT. CONTACT ARCHITECT IF DIMENSIONS ARE NEEDED AND CANNOT BE FOUND IN WRITING IN THE DOCUMENTS.
5. INFORMATION ON G SHEETS IS INTENDED TO BE TYPICAL. SOME INFORMATION SHOWN MAY NOT BE RELEVANT TO PROJECT SPECIFICS. REVIEW THE DOCUMENTS AND CONFIRM IN WRITING WITH DESIGN TEAM WHICH INFORMATION IS NOT RELEVANT TO PROJECT SPECIFICS PRIOR TO THE START OF CONSTRUCTION.
6. REFER TO LEGENDS, SCHEDULES, AND KEYNOTES ON INDIVIDUAL SHEETS FOR SPECIFIC INFORMATION
7. HOLD ALL PIPES, CONDUIT, BRANCH LINES, ETC. AS CLOSE TO THE UNDERSIDE OF STRUCTURE AS POSSIBLE. USE LOW PROFILE HANGERS WHERE POSSIBLE
8. TEMPORARY SHORING AS REQUIRED DURING DEMOLITION AND CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. PROVIDE ACCESS PANELS AT WALLS AND CEILINGS FOR: FIRE/SMOKE DAMPERS, VAV BOXES, PLUMBING CLEANOUTS, ELECTRIC HEATERS, AIR HANDLING UNITS/MECHANICAL EQUIPMENT, VALVES, FILTER BOXES AND OTHER CONCEALED ITEMS REQUIRING ACCESS. COORDINATE WITH ARCHITECT IN FIELD FOR INSTALLATION OF ACCESS PANELS WHERE REQUIRED AND NOT GRAPHICALLY SHOWN ON PLANS.
10. UNLESS NOTED OTHERWISE DIMENSIONS IN THE DOCUMENTS ARE AS LISTED BELOW.
    A. DIMENSIONS ARE TAKEN FROM FACE OF STUD UNLESS OTHERWISE NOTED.
    B. "CLEAR" REFERS TO DIMENSION BETWEEN FACES OF FINISH SURFACES.
    C. "EQ" OR "EQUAL" INDICATES DIMENSION TO MATCH ADJACENT, LETTERED DIMENSIONS (A,B,C,D,ETC.) INDICATE DIMENSION TO MATCH OPPOSITE OR REMOTE (MATCHING LETTER) DIMENSION
    D. "+/-" INDICATES APPROXIMATE DIMENSION BASED ON FIELD CONDITION OR FLEXIBLE DIMENSION THAT CAN BE ADJUSTED.
    E. DIMENSIONS ON REFLECTED CEILING PLANS AND LIGHTING PLANS ARE CLEAR DIMENSIONS.
    F. DIMENSIONS ON INTERIOR DESIGN SHEETS ARE TO FACE OF FINISHED SURFACE.
11. ASBESTOS ABATEMENT, LEAD PAINT REMOVAL, AND OTHER HAZARDOUS MATERIAL REMOVAL IS NOT IN THE CONTRACT. SHOULD THE CONTRACTOR ENCOUNTER THE PRESENCE, OR POSSIBLE PRESENCE, OF POTENTIALLY HAZARDOUS MATERIALS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR INSTRUCTIONS PRIOR TO CONTINUING WORK.
12. BUILDINGS SHALL BE PROVIDED IN WEATHERPROOF AND SECURE CONDITION AS EARLY AS POSSIBLE AND MAINTAINED THROUGHOUT WORK.
13. FURNITURE IS FOR REFERENCE ONLY UNLESS OTHERWISE NOTED. REFERENCE FURNITURE IS NOT IN PROJECT SCOPE.
14. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED INSPECTIONS, PERMITS, TEMPORARY UTILITIES AND TEMPORARY TOILET FACILITIES.

FLOOR PLAN:

1. ALL DOORS TO BE 4" FROM FINISH FACE OF ADJACENT PARTITION AS MEASURED TO OUTSIDE FACE OF DOOR JAMB UNLESS OTHERWISE NOTED.

CEILING PLAN:

1. CENTER ALL CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, EXIT LIGHTS, SPRINKLER HEADS, SPEAKERS IN CEILING TILE PANELS.
2. CENTER CEILING GRID IN ROOM IN BOTH DIRECTIONS UNLESS INDICATED OTHERWISE.
3. ALL LIGHT FIXTURES IN GYPSUM BOARD CEILING SHALL BE CENTERED IN ROOM UNLESS INDICATED OTHERWISE.
4. ALL GYPSUM BOARD SOFFITS ARE TO BE FINISHED WITH NO EXPOSED EDGES OR VIEWS INTO THE PLENUM SPACE.

DEMOLITION

1. DURING THE COURSE OF THE WORK ITEMS UNCOVERED THAT VARY FROM WHAT IS IDENTIFIED IN THE DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK. THIS INCLUDES BUT IS NOT LIMITED TO COMPONENT SIZES, LOCATIONS, CONFIGURATIONS AND DAMAGED, DETERIORATED, MALFUNCTIONING OR BROKEN COMPONENTS
2. IF NOT SHOWN IN THE DRAWINGS THE CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS AND CONSTRUCTION AS NECESSARY TO COMPLETELY INSTALL ALL NEW WORK AS REQUIRED BY OTHER PARTS OF THE CONTRACT DOCUMENTS.
3. LOCATIONS OF TEMPORARY CONSTRUCTION BARRIERS/DUST PARTITIONS TO BE COORDINATED WITH THE OWNER.
4. REMOVE ALL CONSTRUCTION DEBRIS AND TRASH DAILY. PROVIDE SEALED COVERINGS FOR ALL BINS OR BARROWS USED TO REMOVE DEBRIS, MATERIALS AND TRASH THROUGH OCCUPIED AREAS OF THE BUILDING.
5. REMOVE ALL EXISTING CONSTRUCTION IN CONFLICT WITH NEW DESIGN. COORDINATE WITH DESIGN TEAM IF ELEMENTS OF EXISTING CONSTRUCTION REQUIRED TO BE DEMOLISHED ARE NOT SHOWN ON DEMOLITION PLANS

SITE PLAN NOTES:

1. SLOPE ALL PAVING AND GRADING AWAY FROM BUILDING TO ACHIEVE POSITIVE DRAINAGE AND TO ELIMINATE PONDING WATER ON SITE
2. IMMEDIATELY NOTIFY DESIGN TEAM IF UNDOCUMENTED UTILITIES ARE DISCOVERED ON SITE
3. ALL EXTERIOR LEVEL LANDINGS SHALL BE OFFSET ½" MAXIMUM FROM FINISH FLOOR, RE: ____ G SHEETS AND SLOPE AWAY FROM THE BUILDING ¼" PER FOOT MAXIMUM.
4. PROVIDE HOSE STORAGE AT DUMPSTER ENCLOSURES
5. PROVIDE WHEEL STOPS AT ALL PARKING SPACES
6. CARRY _____ ALLOWANCE FOR EACH NEW UTILITY TAP TO MUNICIPAL INFRASTRUCTURE
7. RESTORE ALL DAMAGED SIDEWALKS AND CURBS TO THE STANDARDS OF THE AUTHORITY HAVING JURISDICTION.

ROOF PLAN NOTES:

1. SLOPE ROOF MEMBRANE ¼" PER FOOT MINIMUM, SLOPE CRICKETS AT ½" PER FOOT MINIIMUM.
2. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20 INCHES IN WIDTH.
3. ALL ROOF DRAINS, OVERFLOW DRAINS AND DOWNSPOUTS TO BE CONNECTED TO SUBSURFACE DRAINAGE UNLESS NOTED OTHERWISE. SEE CIVIL FOR CONNECTION OF ROOF DETAINAGE SYSTEM TO UNDERGROUND SERVICES.
4. PROVIDE ROOF MEMBRANE SYSTEM AT INTERIOR (ROOF) SIDE OF VERTICAL PARAPET WALLS WHERE PARAPET WALL IS 2'-0" HIGH OR LESS. PROVIDE METAL WALL PANEL SIDING SYSTEM AT INTERIOR (ROOF) SIDE OF VERTICAL PARAPET WALLS WHERE PARAPET WALLS ARE OVER 2'-0" HIGH
5. ALL ROOF MATERIALS AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, RECOMMENDATIONS, AND SPECIFICATIONS TO ACHIEVE SPECIFIED WARRANTY AND PROVIDE WEATHERTIGHT ROOF SYSTEM. **(AND NRCA STANDARDS)**
6. COORDINATE ALL ROOF PENETRATIONS AND EQUIPMENT / PLATFORM SUPPORTS WITH ROOF STRUCTURE AND ROOFING INSTALLATION AND FLASHING REQUIREMENTS.
7. PROVIDE TREATED PLYWOOD SHEATHING AT THE INTERIOR (ROOF) SIDE OF ALL PARAPETS.
8. ROOF MEMBRANE SYSTEM SHALL TURN UP PARAPETS, UP OVER TOP OF PARAPET WALL BELOW COPING CAP, TO BE FLASHED INTO WALL WRB SYSTEM TO ACHIEVE CONTINUOUS UNINTERRUPTED BUILDING ENVELOPE WEATHER BARRIER SYSTEM
9. PROVIDE WALK PAD SYSTEM COMPATIBLE WITH SPECIFIED ROOF SYSTEM, SPANNING FROM ROOF ACCESS POINT TO MAINTENANCE SIDES OF ALL ROOFTOP EQUIPMENT.
10. ALL ROOF MOUNTED EQUIPMENT STANDS, CURBS, PENETRATIONS, ACCESSORIES, UTILITIES, ETC., TO BE FLASHED INTO ROOF SYSTEM AS REQUIRED TO ACHIEVE SPECIFIED WARRANTY.
11. PACK, SCREEN, INSULATE, AND SEAL ALL ROOF PENETRATION SYSTEMS AS REQUIRED TO PREVENT ALL OUTSIDE AIR, MOISTURE, ANIMALS, INSECTS, ETC. FROM COMMUNICATING WITH FRAMING CAVITY BELOW DECK.
12. DO NOT LOCATE ANY ROOFTOP EQUIPMENT WITHIN 10' OF ROOF EDGE UNLESS OTHERWISE NOTED
13. PROVIDE INSULATED PREFABRICATED ROOF HATCH, FLASHED INTO SPECIFIED ROOF SYSTEM AS REQUIRED TO ACHIEVE SPECIFIED WARRANTY
14. ALL PIPING, CONDUITS, ETC. SHAL BE A MINIMUM 10" ABOVE ROOF SURFACE. PROVIDE PIPE SUPPORTS AT 8'-0" MAX.
15. AFTER SUBSTANTIAL COMPLETOIN EXAMINE AND ENSURE ROOF DRAIN LINES ARE FREE OF DEBRIS AND BLOCKAGE. FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY.
16. ISOLATE ALL HEAT PIPES/FLUES AS RECOMENDED AND OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING.
17. ALL ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MINIMUM 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE.
18. DIMENSIONS, DETAILS, EQUPMENT SIZES AND LOCATIONS SHOWN ON THESE ROOF PLANS AND DETAILS AR FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE AND LOCATIONS TO BE COORDINATED WITH ALL DISCIPLINES.
19. REFER TO OTHER DISCIPLINES FOR SIZE AND LOCATIONS OF NEW DECK PENETRATIONS AND ROOFTOP EQUIPMENT.
20. ALL SHEETMETAL SHALL BE INSTALLED TO COMPLY WITH THE LATEST EDITION OF SMACNA'S ARCHITECTURAL SHEET METAL MANUAL.
21. ANCHOR ROOFTOP UNITS SECUREY IN PLACE WITH METHODS INDICATED PROVIDING FOR THERMAL EXPANSION OF METAL UNITS. CONCEAL FASTENERS WHERE POSSIBLE AND SET UNITS TRUE TO LINE AND LEVEL. EXPOSED EDGES SHALL BE FOLDED BACK NEATLY FROM A ½" HEM ON THE CONCEALED EDGE. INSTALL WORK WITH LAPS, JOINTS AND SEAMS WHCIH WILL BE WATERTIGHT AND WATERPROOF.
22. A ½" HEM ON THE CONCEALED EDGE. INSTALL WORK WITH LAPS, JOINTS AND SEAMS WHCIH WILL BE WATERTIGHT AND WATERPROOF.

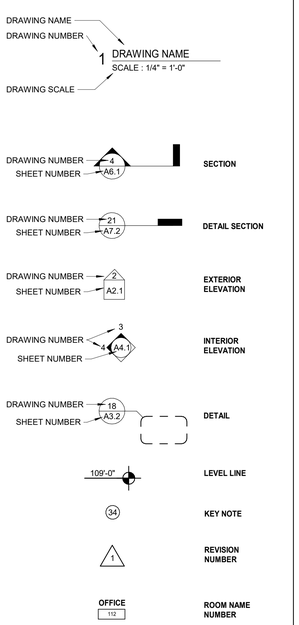
ZONING

STATE	LOUISIANA
PARISH	ST. CHARLES
CITY	HAHNVILLE
PLAT #	XX
SETBACKS	
FRONT YARD	20 FEET
SIDE YARD	5 FEET
REAR YARD	20 FEET
HISTORIC DISTRICT INFO.	N/A
OTHER ZONE CLASSIFICATIONS	N/A
PARKING	
REQUIRED	41
PROVIDED	87
CONTACT INFO.	
LOCAL AHJ	ST. CHARLES PARISH
FIRE MARSHAL	LOUISIANA STATE FIRE MARSHAL
HISTORIC COMMISSION	N/A
ELEC. UTILITY	ENTERGY
PERMIT EXPEDITOR	XX

DRAWING INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G000	COVER SHEET
G001	DRAWING INDEX + GENERAL INFORMATION
G002	TYPICAL TOILET & SPECIALTY EQUIPMENT INFORMATION
G003	PARTITION TYPES
G004	TYPICAL PARTITION DETAILS
G005	MODEL REFERENCE VIEWS
LIFESAFETY	
LS101	LIFE SAFETY PLAN - FIRST FLOOR
CIVIL	
C100	OVERALL CIVIL SITE PLAN
C101	CIVIL SITE PLAN & GEOMETIC LAYOUT
C102	Unnamed
C200	SITE CLEARING & PHASE 1 EROSION CONTROL
C300	PAVING & JOINT LAYOUT
C401	GRADING PLAN
C402	GRADING PLAN
C501	STORM DRAINAGE & UTILITY LAYOUT
C502	STORM DRAINAGE & UTILITY LAYOUT
C503	STORM DRAINAGE & UTILITY LAYOUT
STRUCTURAL	
S100	FOUNDATION PLAN
S200	SLAB PLAN
S201	OVERALL ROOF FRAMING PLAN
S202	CANOPY AND LOW ROOF FRAMING PLAN
S203	MID ROOF FRAMING PLAN
S204	HIGH ROOF FRAMING PLAN
S600	FOUNDATION DETAILS
S601	FOUNDATION DETAILS
S700	FRAMING DETAILS
S701	FRAMING DETAILS
S702	FRAMING DETAILS
S703	FRAMING DETAILS
S800	BRACE FRAMING
S801	BRACE FRAMING
S900	GENERAL NOTES
S901	SCHEDULES
ARCHITECTURAL SITE	
AS101	ARCHITECTURAL SITE PLAN
AS101a	LANDSCAPE PLAN
AS102	ARCHITECTURAL SITE PLAN DETAILS
ARCHITECTURE	
AS103	SITE PLAN DETAILS
ARCHITECTURE	
A101	OVERALL FLOOR PLAN
A102	OVERALL DIMENSIONED FLOOR PLAN
A110	ENLARGED FLOOR PLANS - RESTROOMS
A121	PLAN DETAIL INTERIOR
A122	PLAN DETAILS EXTERIOR
A123	PLAN DETAILS EXTERIOR
A126	NICHHA DETAILS
A141	OVERALL REFLECTED CEILING PLAN - FIRST FLOOR
A145	REFLECTED CEILING PLAN DETAILS
A151	ROOF PLAN
A152	ROOF DETAILS
A153	ENLARGED ROOF PLANS AND DETAILS
A154	ROOF DETAILS - STANDING SEAM
A201	BUILDING ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A401	WALL SECTIONS
A402	WALL SECTIONS
A403	WALL SECTIONS
A404	WALL SECTIONS
A405	WALL SECTIONS
A406	WALL SECTIONS
A411	SECTION DETAILS
A412	SECTION DETAILS
A413	SECTION DETAILS
A414	SECTION DETAILS
A415	SECTION DETAILS
A416	SECTION DETAILS
A417	SECTION DETAILS
A418	SECTION DETAILS
A419	SECTION DETAILS
A420	SECTION DETAILS
A601	DOOR SCHEDULE
A602	DOOR DETAILS
A603	OPENING ELEVATIONS
A604	OPENING DETAILS
A605	OPENING DETAILS
A606	OPENING DETAILS (AUTOMATIC SLIDING DOORS)
A607	TYP. STOREFRONT AND CURTAIN WALL DETAILS
INTERIOR DESIGN	
ID001	INTERIOR GENERAL NOTES & FINISH KEY
ID101	OVERALL FINISH PLAN - FIRST FLOOR
ID102	ENLARGED FINISH PLAN
ID121	OVERALL MILLWORK PLAN - FIRST FLOOR
ID131	OVERALL SIGNAGE PLAN - FIRST FLOOR
ID151	OVERALL FURNITURE PLAN - FIRST FLOOR
ID201	INTERIOR ELEVATIONS
ID202	INTERIOR ELEVATIONS
ID203	INTERIOR ELEVATIONS
ID301	INTERIOR TRANSITION DETAILS
ID302	INTERIOR DETAILS
ID303	INTERIOR DETAILS
MECHANICAL	
M100	MECHANICAL NOTES, ABREVIATIONS, AND SYMBOLS
M101	HVAC SCHEDULES
M200	MECHANICAL & PLUMBING SITE PLAN
M201	FIRST FLOOR PLAN - HVAC
M301	FIRST FLOOR PLAN HVAC PIPING
M601	HVAC CONTROLS
M602	HVAC CONTROLS
M603	HVAC CONTROLS
M701	HVAC DETAILS
M702	HVAC DETAILS
M703	HVAC DETAILS
ELECTRICAL	
E100	ELECTRICAL SYMBOLS & NOTES
E101	ELECTRICAL SCHEDULES
E200	ELECTRICAL SITE PLAN
E201	FIRST FLOOR PLAN - LIGHTING
E301	FIRST FLOOR PLAN - POWER & DATA
E401	FIRST FLOOR PLAN - MECHANICAL POWER
E501	ELECTRICAL ONE LINE DIAGRM
E502	PANEL SCHEDULES
E601	FIRST FLOOR - SPECIAL SYSTEMS
E701	ELECTRICAL DETAILS
PLUMBING	
P100	PLUMBING SCHEDULES
P101	PLUMBING SCHEDULES
P201	FIRST FLOOR PLAN - WASTE & VENT
P301	FIRST FLOOR PLAN - DOMESTIC WATER
P601	FIRST FLOOR PLAN - WASTER VENT ISOMETRIC
P602	FIRST FLOOR PLAN - DOMESTIC WATER ISOMETRIC
P701	PLUMBING DETAILS
P702	PLUMBING DETAILS
FIRE PROTECTION	
FP100	FIRE PROTECTION NOTES, ABBREVIATIONS, AND SYMBOLS
FP201	FIRST FLOOR PLAN - FIRE PROTECTION

SYMBOLS



ABBREVIATIONS

AC	ACOUSTICAL CEILING TILE
ADAAG	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT
BB	BEAD BOARD (WAINSCOTT)
BD	BOARD
BLDG	BUILDING
BO	BOTTOM OF
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BUR	BUILT UP ROOF
C	CARPET OR CARPET TILE
CAB	CABINET
CB	CATCH BASIN
CC	CUBICLE CURTAIN TRACK
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CR	CRASH RAIL
CRM	CROWN MOULDING
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DF	DECORATIVE FILM
DFC	DOOR FRAME CASING
DIA	DIAMETER
DIM	DIMENSION
DM	DECORATIVE METALS
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EF	EPOXY FLOORING
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR INSULATED FINISHING SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EMER	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP. JT.	EXPANSION JOINT
EXST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAP	FIRE ANNUNCIATOR PANEL
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLORESCENT
FRP	FIBERGLASS REINFORCED PLASTIC PANEL
FT	FOOT or FEET
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GND	GROUND
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HANDICAPPED
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HAND RAIL
HT	HEIGHT
HW	HAND WASH
HWH	HOT WATER HEATER
ID	INNER (OR INSIDE) DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JT	JOINT
KP	KICK PLATE
LAM	LAMINATE
LAV	LAVATORY
LB(S)	POUNDS
LDG	LANDING
LF	LINOLEUM FLOORING
LT	LIGHT
LVT	LUXURY VINYL TILE
LWC	LINEAR WOOD CEILING
M	MISCELLANEOUS
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MI	MIRROR
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OPPOSITE HAND
OP	OVERFLOW PIPE
OPG	OPENING
OPP	OPPOSITE
P	PAINT
PC	PRIVACY CURTAIN
PCN	PAINTED CONCRETE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
QS	QUARTZ SURFACE
R	RISER
RAD	RADIUS
RB	RUBBER WALL BASE
RBM	RUBBER WALL BASE MILWORK PROFILE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFER
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RESIL	RESILIENT
RF	RUBBER FLOORING
RM	ROOM
RO	ROUGH OPENING
RP	RESIN PANEL
RR	RUB RAIL
S	SOUTH
SC	SCUPPER
SC	SEALED CONCRETE
SCHED	SCHEDULE
SDT	STATIC DISSIPATIVE FLOORING
SECT	SECTION
SF	SQUARE FOOT
SF	SEAMLESS FLOORING
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWP	SPECIALTY WALL PANELS
T	TREAD
T	TRANSITION STRIP
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICK
TL	TILE
TLT	TOILET
TO	TOP OF
TOS	TOP OF STEEL
TP	TOILET PARTITION
TR	TRIM
TS	TACKABLE SURFACE
TYP	TYPICAL
TZ	TERRAZZO
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VCF	VINYL COMPOSITION FLOORING
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOJ	VERIFY ON JOB
VTR	VENT TERMINATION PIPE
W	WEST
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WALL COVERING
WC	WATERCLOSET
WD	WOOD
WIN	WINDOW
WP	WATERPROOF
WP	WALL PROTECTION
WS	WOOD STAIN
WT	WEIGHT
WT	WINDOW TREATMENTS
WV	WOOD VENEER
WWF	WELDED WIRE FABRIC

Grace
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DRAWING INDEX + GENERAL INFORMATION

SHEET NUMBER

G001

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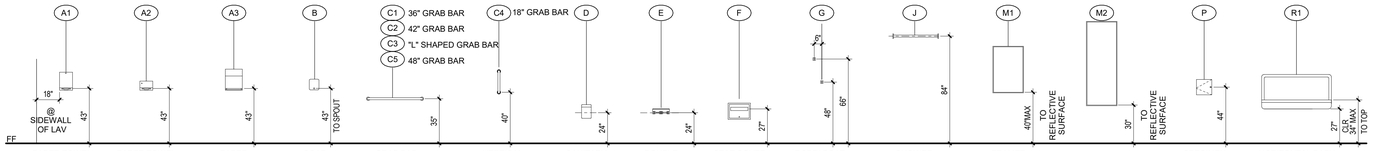
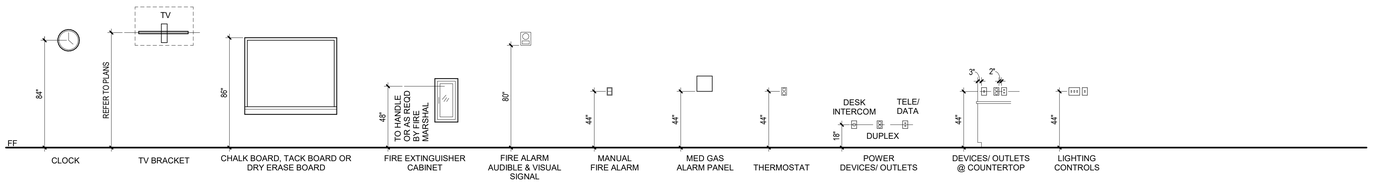
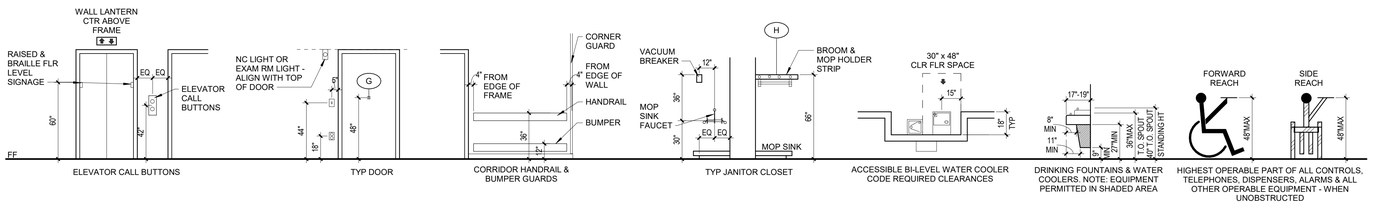
SPECIALTY EQUIPMENT AND MOUNTING HEIGHTS







TYP. TOILET FIXTURE LAYOUTS

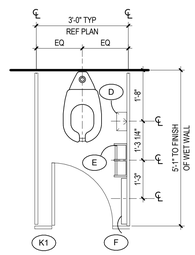
S1 SYMBOL INDICATES STALL LAYOUT TYPE

T1 SYMBOL INDICATES TOILET LAYOUT TYPE

U1 SYMBOL INDICATES URINAL LAYOUT TYPE

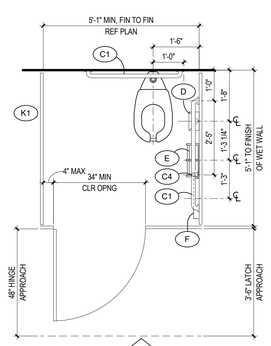
EW SYMBOL INDICATES ELECT WATER COOLER LAYOUT TYPE

NOTE: REFER TO PLUMBING SHEETS FOR FIXTURE DESIGNATIONS



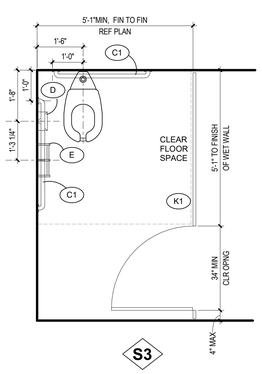
S1

STANDARD STALL
NO "D" @ MALE TLTS



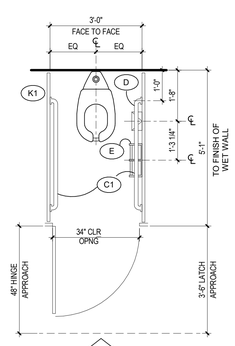
S2

ACCESSIBLE STALL
NO "D" @ MALE TLTS



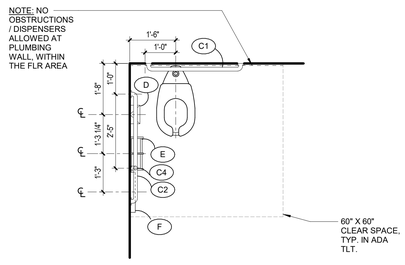
S3

END OF ROW ACCESSIBLE STALL
NO "D" @ MALE TLTS



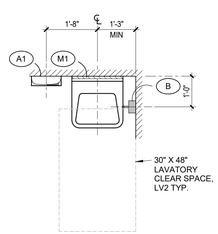
S4

AMBULATORY ACCESSIBLE STALL
NO "D" @ MALE TLTS



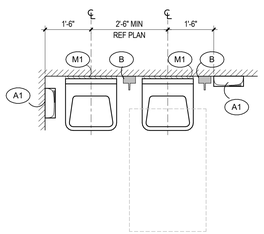
T1

T1 - STD TOILET
NO "D" @ MALE TLTS



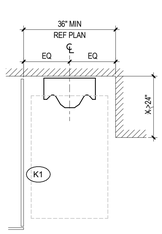
L1

LAVATORIES



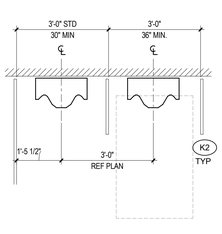
L2

LAVATORIES



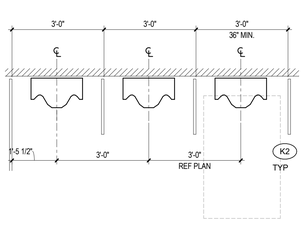
U1

ALCOVE URINAL



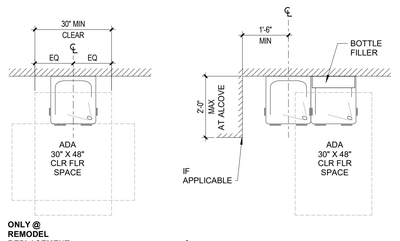
U2

URINALS



U3 SHOWN **U4** ADD 1 **U1** @ 36" O.C.

URINALS



EW

EWC'S

NOTE: PROVIDE ACCESSORY SKIRT @ UNPROTECTED ENDS OF ALL EWC'S

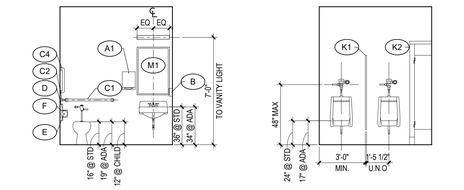
SPECIALTY EQUIPMENT GENERAL NOTES

1. THIS SCHEDULE IS SHOWN AS A STANDARD TEMPLATE. ALL ITEMS MAY NOT BE USED ON THIS PROJECT. IF ANY ITEM PRESENTED ON THIS PROJECT DOES NOT COMPLY WITH THE STANDARDS ABOVE, BRING TO THE ATTENTION OF THE ARCHITECT BEFORE INSTALLATION OF THE ITEM.
2. DIMENSIONS ARE TYP, UNLESS NOTED OTHERWISE. DIMENSIONS DO NOT NECESSARILY SHOW ALL THE DEVICES THAT ARE LOCATED ON THE WALLS.
3. PROVIDE ADEQUATE BLOCKING AT ALL ACCESSORY & EQUIPMENT LOCATIONS.
4. ALL TOILET ACCESSORIES TO BE INSTALLED BY GC UNLESS NOTED OTHERWISE. GC TO COORDINATE OWNER FURNISHED ITEMS.
5. SEE THE PLANS FOR ALL ADDITIONAL TOILET ACCESSORIES & ACTUAL ROOM DIMENSIONS.
6. ALL TOILET ACCESSORIES TO BE INSTALLED PER MANUFACTUER'S WRITTEN INSTRUCTIONS.
7. REFER TO ID SERIES FOR ALL TOILET WALL FINISHES

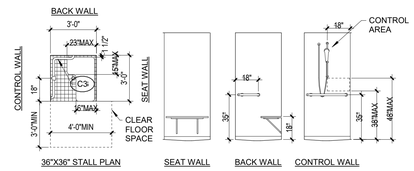
SPECIALTY EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MODEL NUMBER	REMARKS
A1	PAPER TOWEL DISPENSER (SURFACE)	PROVIDED BY OWNER	FINISH -SS (SATIN)
A2	PAPER TOWEL DISPENSER (SURFACE)	PROVIDED BY OWNER	FINISH -SS (SATIN)
A3	PAPER TOWEL DISPENSER (AUTOMATIC)	-	
B	SOAP DISPENSER	PROVIDED BY OWNER	
C1	36" GRAB BAR	BOBRICK #B-5806-36"	FINISH -SS (SATIN)
C2	42" GRAB BAR	BOBRICK #B-5806-42"	FINISH -SS (SATIN)
C3	24" GRAB BAR	BOBRICK #B-5806-24"	FINISH -SS (SATIN)
C4	18" VERTICAL GRAB BAR	BOBRICK #B-5806-18"	FINISH -SS (SATIN)
C5	48" GRAB BAR	BOBRICK #B-5806-48"	FINISH -SS (SATIN)
D	SANITARY NAPKIN DISPOSAL (SURFACE)	BOBRICK #B-270	FINISH -SS (SATIN)
E	DOUBLE TOILET TISSUE HOLDER W/ SHELF	BOBRICK #B-2840	FINISH -SS (SATIN)
F	SEAT COVER DISPENSER	BOBRICK #B-221	FINISH -SS (SATIN)
G	ROBE HOOK	BOBRICK #B-76717	FINISH -SS (SATIN) MOUNT ON BACK OF DOORS @ ALL OFFICES, TLT & SHWR ROOMS
H	BROOM & MOP HOLDER STRIP	BOBRICK #B-223- 36"	
J	SHOWER CURTAIN ROD	BOBRICK #B-207 - VARIOUS LENGTHS	FINISH -SS (SATIN)
M1	FRAMED MIRROR	BOBRICK #B-165-2436	FINISH -SS (SATIN)
M2	FRAMED MIRROR - FULL HEIGHT	BOBRICK #B-165-2460	FINISH -SS (SATIN)
P	SPECIMEN PASS-THRU	BOBRICK #B-505	FINISH -SS (SATIN) 6" STUD WALLS REQUIRE A DIFFERENT MODEL
R1	HORIZONTAL BABY CHANGING STATION	KOALA CORP KB110-SSRE RECESSED	FINISH -SS (SATIN)

TYP. FIXTURE MOUNTING HEIGHT DIAGRAM

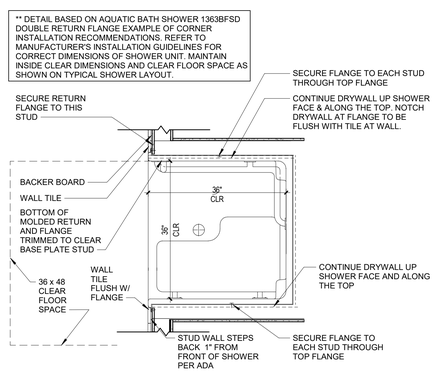


TYPICAL SHOWER LAYOUT



PRE-FAB ADA SHOWER UNIT DETAIL

** DETAIL BASED ON AQUATIC BATH SHOWER 1363BFSD DOUBLE RETURN FLANGE EXAMPLE OF CORNER INSTALLATION RECOMMENDATIONS. REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR CORRECT DIMENSIONS OF SHOWER UNIT. MAINTAIN INSIDE CLEAR DIMENSIONS AND CLEAR FLOOR SPACE AS SHOWN ON TYPICAL SHOWER LAYOUT.



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TYPICAL TOILET & SPECIALTY EQUIPMENT INFORMATION

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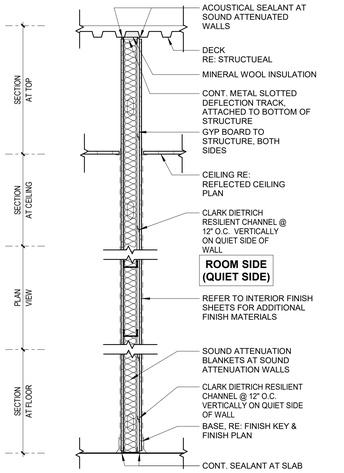
G002



TYPE 'A'

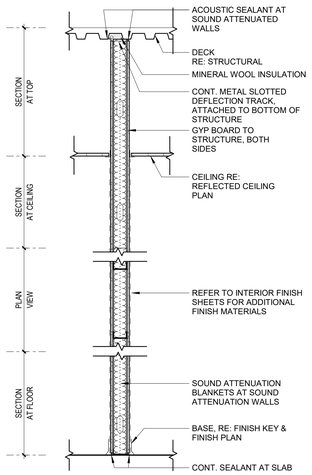
COMPOSITE, NON-RATED PARTITION
(TO UNDERSIDE OF STRUCTURE)

TYPE "A3"
3-5/8"" MTL STUDS

TYPE "A6"
6" MTL STUDS

TYPE "A8"
8" MTL STUDS

W/ SOUND ATTENUATION	STC RATING	UL DESIGN
TYPE "A3s" 3 5/8" MTL STUDS	**51**	**U419**
TYPE "A6s" 6" MTL STUDS	**53**	**U419**
TYPE "A8s" 8" MTL STUDS	**53**	



TYPE 'B'

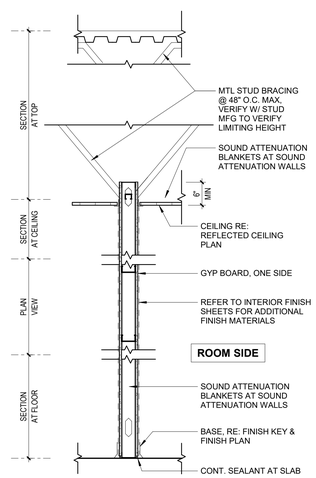
COMPOSITE, NON-RATED PARTITION
(TO UNDERSIDE OF STRUCTURE)

TYPE "B3"
3 5/8" MTL STUDS

TYPE "B6"
6" MTL STUDS

TYPE "B8"
8" MTL STUDS

W/ SOUND ATTENUATION	STC RATING	UL DESIGN
TYPE "B3s" 3 5/8" MTL STUDS	**43**	**U419**
TYPE "B6s" 6" MTL STUDS	44	**U419**
TYPE "B8s" 8" MTL STUDS	45	



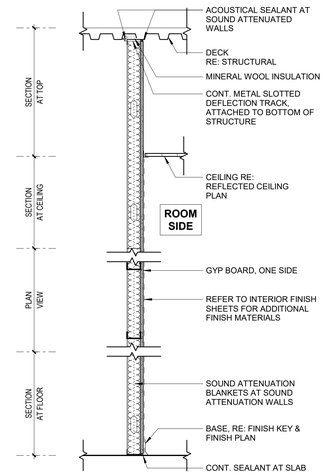
TYPE 'C'

NON-COMPOSITE, BRACED @ 48" O.C. NON-RATED
PARTITION. GYP ONE SIDE.

TYPE "C3"
3 5/8" MTL STUDS

TYPE "C6"
6" MTL STUDS

TYPE "C8"
8" MTL STUDS



TYPE 'D'

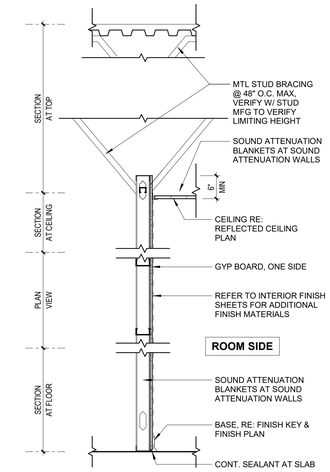
SMOKE PARTITION @

TYPE "D3"
3 5/8" MTL STUDS

TYPE "D6"
6" MTL STUDS

TYPE "D8"
8" MTL STUDS

W/ SOUND ATTENUATION	STC RATING
TYPE "D3s" 3 5/8" MTL STUDS	**34**
TYPE "D6s" 6" MTL STUDS	37
TYPE "D8s" 8" MTL STUDS	37



TYPE 'E'

NON-COMPOSITE, BRACED @ 48" O.C. NON-RATED
PARTITION. GYP ONE SIDE.

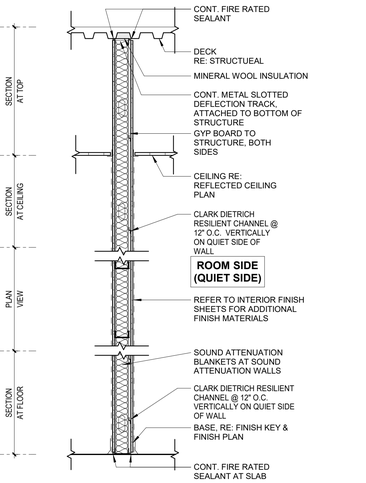
TYPE "E1"
1 5/8" MTL STUDS

TYPE "E2"
2 1/2" MTL STUDS

TYPE "E3"
3 5/8" MTL STUDS

TYPE "E6"
6" MTL STUDS

TYPE "E8"
8" MTL STUDS



TYPE 'F'

COMPOSITE, RATED PARTITION
(TO UNDERSIDE OF STRUCTURE)

1HR FIRE @ U.L. - U# 419

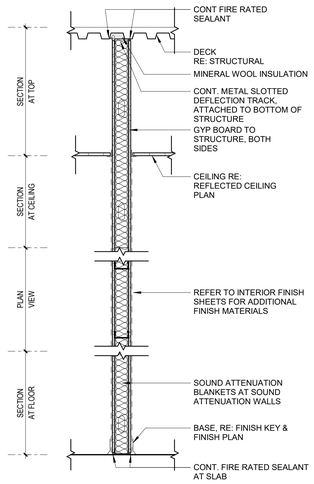
1HR FIRE/SMOKE @ U.L. - U# 419

TYPE "F3"
3-5/8"" MTL STUDS

TYPE "F6"
6" MTL STUDS

TYPE "F8"
8" MTL STUDS

W/ SOUND ATTENUATION	STC RATING	UL DESIGN
TYPE "F3s" 3 5/8" MTL STUDS	**51**	**U419**
TYPE "A6s" 6" MTL STUDS	**53**	**U419**
TYPE "F8s" 8" MTL STUDS	**53**	



TYPE 'G'

COMPOSITE, RATED PARTITION
(TO UNDERSIDE OF STRUCTURE)

1HR FIRE @ U.L. - U# 419

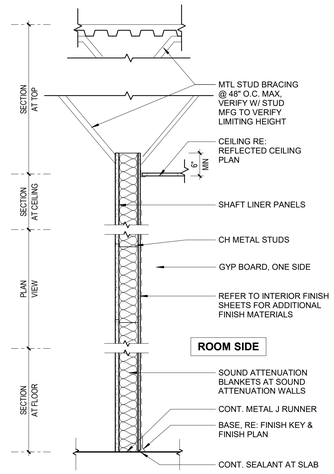
1HR FIRE/SMOKE @ U.L. - U# 419

TYPE "G3"
3 5/8" MTL STUDS

TYPE G6"
6" MTL STUDS

TYPE "G8"
8" MTL STUDS

W/ SOUND ATTENUATION	STC RATING	UL DESIGN
TYPE "G3s" 3 5/8" MTL STUDS	**43**	**U419**
TYPE "G6s" 6" MTL STUDS	44	**U419**
TYPE "G8s" 8" MTL STUDS	45	



TYPE 'S'

SHAFTWALL PARTITION

TYPE "S6"
6" CH MTL STUDS @ 24" O.C.

GENERAL PARTITION NOTES

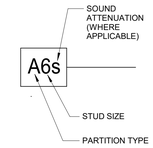
1. NOT ALL PARTITION TYPES SHOWN ON THIS SHEET MAY BE USED IN PROJECT. REFER TO PLANS FOR ACTUAL PARTITION TYPES USED.
2.
3. PARTITION TYPES 'I' AND 'O' NOT USED
4. REFER TO PLANS AND WALL PARTITION LEGEND FOR RATED PARTITIONS.
5. ALL RATED PARTITIONS SHALL BE CONSTRUCTED FIRST, IN ORDER OF PRIORITY (SEE WALL / PARTITION PRIORITY LEGEND BELOW). SECONDARY PARTITIONS TO ABUT BUT NOT PENETRATE RATED WALLS AS SHOWN IN WALL ABUTMENT DETAIL ON TYPICAL PARTITION DETAILS SHEET.
6. WHERE PARTITION TYPE INDICATES GYP. BD. TO BTM. OF DECK, STOP GYP. BD. 1/2" BELOW LINE OF STRUCTURE AND SEAL.
7. IF A FIRE RATED PARTITION OCCURS UNDER A STRUCTURAL MEMBER (OR OTHER OBSTRUCTION), IT IS THE CONTRACTORS RESPONSIBILITY TO CONTINUE THE FIRE RATING OF THE PARTITION TO THE UNDERSIDE OF THE ROOF AND/OR FLOOR DECK
8. SEAL ALL PENETRATIONS (DUCTS, CONDUITS, STRUCTURE, ETC.) THROUGH ACOUSTIC AND FIRE RATED ASSEMBLIES IN CONFORMANCE WITH THE U.L. DESIGN TYPE, THE STC RATING, APPLICABLE FIRE CODES, AND APPLICABLE LOCAL CODES.
9. BASE PROFILES DEPICTED IN WALL TYPES ARE DIAGRAMMATIC, CONTRACTOR TO REFER TO FINISH KEY AND ENLARGED BASE DETAILS FOR MATERIALS, CONSTRUCTION AND PLACEMENT.
10. REFER TO SPECIFICATIONS FOR METAL STUD GAUGE, SPACING, BRACING AND DEFLECTION REQUIREMENTS. .

ACOUSTICAL NOTES:

A. PARTITIONS INDICATED IN PLAN WITH PARTITION TAG TO BE INSTALLED W/ S.A.B (SOUND ATTENUATION BLANKETS) AS INDICATED IN PARTITION TYPE. ADD ACOUSTICAL SEALANT AT TOPS AND BOTTOMS OF WALLS, AND AT PENETRATIONS TO MAINTAIN STC RATING OF PARTITION TYPE.

B. PROVIDE 2 STUDS BETWEEN PENETRATIONS (OUTLETS) ON OPPOSITE SIDES OF PARTITIONS INDICATED TO ACHIEVE AN STC RATING. SEAL PERIMETER OF EACH OUTLET WITH ACOUSTICAL SEALANT AND SEAL BACK OF OUTLET BOX WITH OUTLET BOX PADS. REFER TO G SHEETS FOR DETAILS.

TYPICAL PARTITION TAG



WALL PARTITION / PRIORITY LEGEND

PRIORITY ORDER OF CONSTRUCTION

**REFER TO WALL ABUTMENT DETAIL AND PARTITIONS @ EXTERIOR WALLS DETAILS ON TYPICAL PARTITION DETAILS SHEET FOR ADDITIONAL INFORMATION

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PARTITION TYPES

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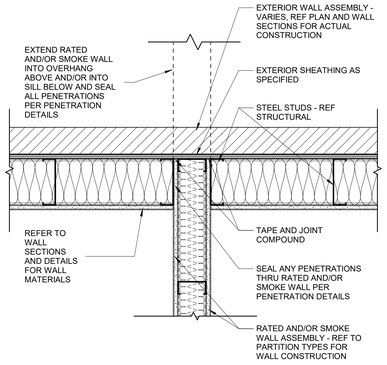
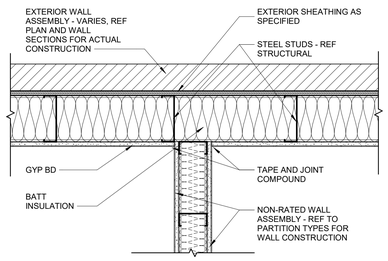
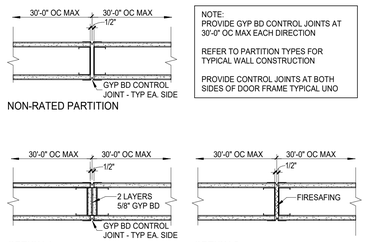


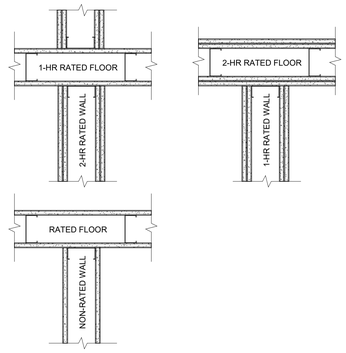
1 RATED AND/OR SMOKE WALL @ EXTERIOR WALL
1 1/2" = 1'-0"



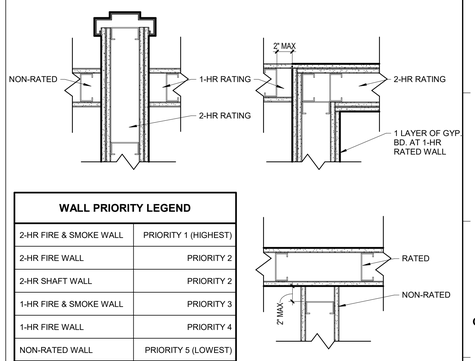
2 NON-RATED WALL ABUTTING EXTERIOR WALL DTL
1 1/2" = 1'-0"



3 GYP BD CONTROL JOINT DETAIL
1 1/2" = 1'-0"

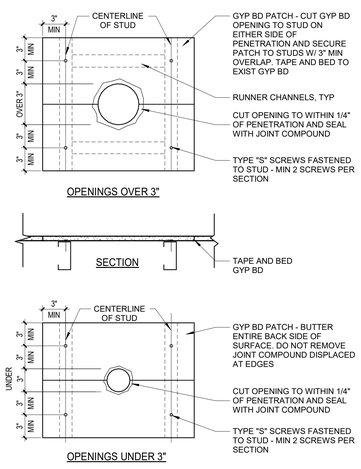


4 FLOOR ABUTMENT DETAILS
1 1/2" = 1'-0"



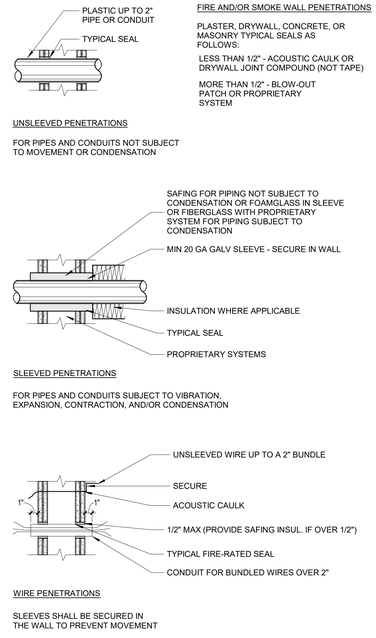
WALL PRIORITY LEGEND	
2-HR FIRE & SMOKE WALL	PRIORITY 1 (HIGHEST)
2-HR FIRE WALL	PRIORITY 2
2-HR SHAFT WALL	PRIORITY 2
1-HR FIRE & SMOKE WALL	PRIORITY 3
1-HR FIRE WALL	PRIORITY 4
NON-RATED WALL	PRIORITY 5 (LOWEST)

5 WALL ABUTMENT DETAILS
1 1/2" = 1'-0"



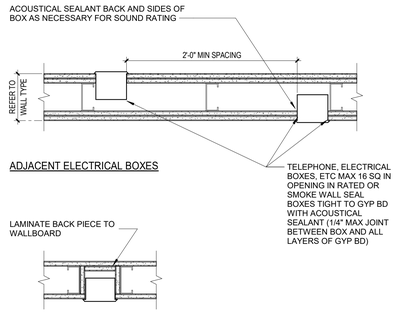
NOTES:
1. IF ANY PIPES ARE TO BE INSULATED, DO NOT RUN INSULATION THROUGH A RATED AND/OR SMOKE WALL. AFTER PACKING GAP AROUND PIPE THROUGH THE WALL WITH SAFING INSULATION AND DRYWALL MUD, FLARE INSULATION ONTO FACE OF WALL AROUND PIPE ON BOTH SIDES OF WALL, AND SEAL TO FACE OF WALL WITH INSULATION MASTIC.
2. ONLY ONE (1) LAYER ON EACH SIDE OF WALL REQUIRED FOR 1 OR 2 HOUR WALLS. BLOW-OUT PATCH IS NOT ACCEPTABLE ON WALLS RATED AT 3 OR 4 HOURS.
3. BUTTER ENTIRE BACK SIDE OF PATCH WITH JOINT COMPOUND
4. LEAVE ALL SCREWS EXPOSED.
5. PATCHES SHALL BE TYPE "X" GYP IN THE SAME THICKNESS USED FOR WALL CONSTRUCTION

6 PATCH @ PENETRATIONS IN RATED / SMOKE WALLS
1 1/2" = 1'-0"



7 RATED SMOKE WALL PENETRATIONS
1 1/2" = 1'-0"

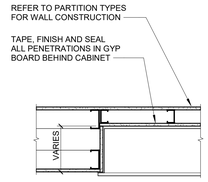
IN ALL RATED PARTITIONS AND SMOKE PARTITIONS, THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET. BOXES WHICH EXCEED THESE STANDARDS SHALL BE RECESSED AS SHOWN IN "RECESSED EQUIPMENT, BOXES AND DEVICES" DETAIL. BOXES LOCATED ON OPPOSITE SIDES OF RATED AND / OR SMOKE PARTITIONS SHALL BE SEPARATED BY HORIZONTAL DISTANCE OF 24 INCHES MINIMUM.



NOTE:
REQUIRED WHERE BOX EXCEEDS 16 SQ IN OR AGGREGATE OF BOXES EXCEEDS 100 SQ IN / 100 SF OF WALL AREA

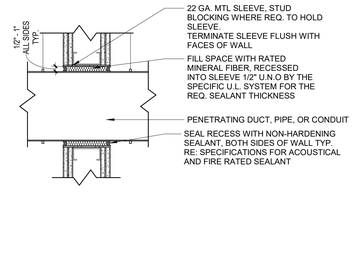
SHALLOW FIRE SIDE BOX DETAIL

8 ELEC BOX RATED / SMOKE WALLS
1 1/2" = 1'-0"



"A" RATED WALL

9 RECESSED EQUIPMENT, BOXES & DEVICES DETAIL
1" = 1'-0"



10 TYP. STUD WALL ACOUSTICAL PENETRATION
1 1/2" = 1'-0"

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TYPICAL PARTITION DETAILS

SHEET NUMBER
G004

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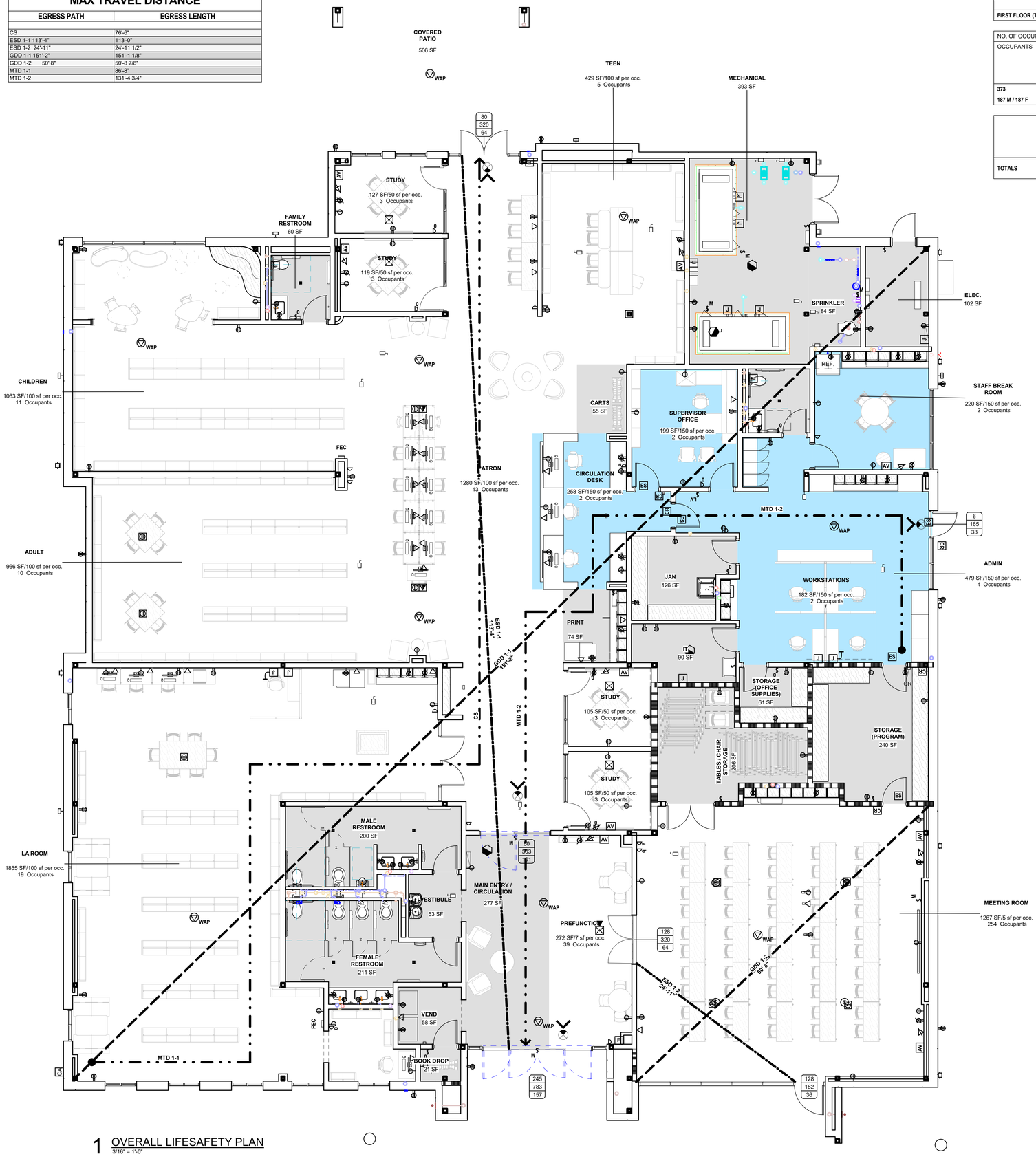
MAX TRAVEL DISTANCE

EGRESS PATH	EGRESS LENGTH
CS	76'-6"
ESD 1-1 113'-4"	113'-0"
ESD 1-2 24'-11"	24'-11 1/2"
GDD 1-1 151'-2"	151'-1 1/8"
GDD 1-2 50' 8"	50'-8 7/8"
MTD 1-1	86'-8"
MTD 1-2	131'-4 3/4"



1 OVERALL LIFESAFETY PLAN
3/16" = 1'-0"

PLUMBING FIXTURE CALCULATION

BASED ON 2021 IBC, CHAPTER 29 TABLE 2902.1

FIRST FLOOR (TOTAL OCCUPANTS = 373)

NO. OF OCCUPANTS: 373					GROUP: A-3 ASSEMBLY							
OCCUPANTS	WC'S REQUIRED		WC'S PROVIDED		LAV'S REQUIRED		LAV'S PROVIDED		DRINKING FOUNTAIN REQUIRED	DRINKING FOUNTAIN PROVIDED	SERVICE SINK REQUIRED	SERVICE SINK PROVIDED
	M 1:125	F 1:65			M 1:200	F 1:200			1:500		1	
373 187 M / 187 F	2	3			1	1			1	SEE TOTAL	1	SEE TOTAL

	WC'S REQUIRED		WC'S PROVIDED		LAV'S REQUIRED		LAV'S PROVIDED		DRINKING FOUNTAIN REQUIRED	DRINKING FOUNTAIN PROVIDED	SERVICE SINK REQUIRED	SERVICE SINK PROVIDED
	M	F	M	F	M	F	M	F				
TOTALS	2	3	4	5	1	1	3	4	1	2	1	1

2021 IECC ENVELOPE INSULATION

TABLE C402.1.3 (R-VALUE METHOD)

CLIMATE ZONE	R301.1	2A	
		ALL OTHER	GROUP R
ROOFS			
INSULATION ENTIRELY ABOVE ROOF DECK		R-25ci	R-25ci
METAL BUILDINGS		R-19 + R-11 LS	R-19 + R-11 LS
ATTIC AND OTHER		R-38	R-38
WALLS, ABOVE GRADE			
MASS		R-5.7ci	R-7.6ci
METAL BUILDING		R-13 + R-6.5ci	R-13 + R-13ci
METAL FRAMED		R-13 + R-5ci	R-13 + R-7.5ci
WOOD FRAMED AND OTHER		R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20
WALLS, BELOW GRADE			
BELOW GRADE WALL		NO REQUIREMENT	NO REQUIREMENT
FLOORS			
MASS		R-6.3ci	R-8.3ci
JOIST / FRAMING		R-30	R-30
SLAB - ON - GRADE FLOORS			
UNHEATED SLABS		NO REQUIREMENT	NO REQUIREMENT
HEATED SLABS		R-7.5 FOR 12" BELOW + R-5 FULL SLAB	R-7.5 FOR 12" BELOW + R-5 FULL SLAB

LIFE SAFETY GENERAL NOTES

1. REFER TO A100 SERIES SHEETS FOR RATED AND NON-RATED PARTITION TYPES
2. REFER TO THE MECHANICAL DRAWINGS FOR FIRE DAMPER AND/OR FIRE/ SMOKE DAMPER LOCATIONS
3. REFER TO THE ELECTRICAL DRAWINGS FOR EMERGENCY ILLUMINATION AND ALL FIRE ALARM DEVICES
4. ALL DOOR HARDWARE SHALL MEET OR EXCEED ALL APPLICABLE CODES
5. PROVIDE FIRE EXTINGUISHERS AS SHOWN ON PLANS AND/ OR AS DIRECTED BY THE FIRE MARSHAL'S OFFICE
6. REFER TO T005 FOR PARTITION TYPES AND RATED WALL DETAILS.

LIFE SAFETY LEGEND

- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- SMOKE PARTITION
- 1 HOUR RATED FIRE/SMOKE BARRIER
- 2 HOUR RATED FIRE/SMOKE BARRIER
- CPT PATH # / CPT SEGMENT # / CPT ## — COMMON PATH OF TRAVEL (CPT)
- MTD PATH # / MTD SEGMENT # / MTD ## — MAX TRAVEL DISTANCE (MTD)
- GDD PATH # / GDD # — GREATEST DIAGONAL DISTANCE (GDD)
- ESD PATH # / ESD # — EXIT SEPARATION DISTANCE (ESD)
- FEC — FIRE EXTINGUISHER CABINET
- EXIT SIGN - SHADED SIDE DENOTES FACE, ARROW DENOTES DIRECTION TO EXIT
- MULTIPLE ROOM OR OPEN AREA BOUNDARY
- EXIT NO. / CAP / 32" — NUMBER OF OCC EXITING, EXIT MAX CAPACITY, EXIT WIDTH (INCHES)
- OCCUPANCY / ROOM NAME / Room name / 101 / ROOM # / Name / A-1 / 9999 SF / SQ. FT. OF SPACE OR ROOM / 99 / 999 / OCCUPANT LOAD / CALCULATED OCCUPANTS

LIFE SAFETY SUMMARY

AUTHORITY HAVING JURISDICTION	STATE OF LOUISIANA, FIRE MARSHAL'S OFFICE	
APPLICABLE BUILDING CODES		
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE	
FIRE / LIFE SAFETY CODE	2015 NFPA LIFE SAFETY CODE	
PLUMBING CODE	2021 INTERNATIONAL PLUMBING CODE	
MECHANICAL CODE	2021 INTERNATIONAL MECHANICAL CODE	
ELECTRICAL CODE	2021 ITERNATIONAL ELECTRICAL CODE	
ENERGY CODE	2021 INTERNATIONAL ENERGY CONSERVATION CODE	
ACCESSIBILITY CODE	ADA / ABA 2010 EDITION	
FIRE SUPPRESSION	AUTOMATIC FIRE SUPPRESSION SYSTEM	
APPLICABLE CODE	IBC	NFPA
CONSTRUCTION TYPE	IIB (IBC 2021)	II (000) (NFPA 2015)
OCCUPANCY TYPE	IBC OCC. A-3 ASSEMBLY	NFPA OCC. A-3 ASSEMBLY
BUILDING CODE SUMMARY		
BUILDING AREA	1ST FLOOR	12,485 SF
	2ND FLOOR	N/A
	TOTAL	12,485 SF
AREA LIMITATION PER STORY	38,000 SQFT IBC (506.2)	NFPA AREA LIMIT
HEIGHT LIMITATION	75 FT. (IBC 504.3)	NFPA HEIGHT LIMIT
BUILDING OCCUPANT COUNT	1ST FLOOR	373
	TOTAL	373
EGRESS WIDTH PER OCCUPANT		
STAIRWAYS	N/A	N/A
OTHER COMPONENTS	N/A	N/A
EGRESS COMPONENTS		
EXIT DOORS	32" MIN. CLEAR WIDTH (1010.1.1)	0.2" PER OCC.
CORRIDOR WIDTH	≤ 44 IN. (1020.3)	44 IN.
EXITING		
IBC 1006.3.1	1ST FLOOR	3 REQ. / 4 PROVIDED
	2ND FLOOR	N/A
	TOTAL	3 REQ. / 4 PROVIDED
SPACES REQUIRING 2 EXITS	50+ OCCUPANTS	
EXIT ACCESS TRAVEL DISTANCE	250 FEET MAX	NFPA DISTANCE
COMMON PATH OF EGRESS	75 FEET	NFPA DISTANCE
ARRANGEMENT OF EXITS	IBC DISTANCE	NFPA DISTANCE
FIRE RESISTANCE REQUIREMENT		
FIRE RATING REQUIREMENTS	TABLE 601	
CONSTRUCTION TYPE	PRIMARY STRUCTURAL FRAME: 0 HR	
AUTOMATIC SPRINKLER SUBSTITUTES FOR 1 HR REQUIREMENT EXEPT FOR EXTERIOR WALL	BEARING WALLS (EXT & INT): 0 HR	
	NON BEARING INTERIOR WALLS: 0 HR	
	FLOOR & SECONDARY MEMBERS: 0 HR	
	ROOF & SECONDARY MEMBERS: 0 HR	
EXTERIOR FIRE SEPARATION	TABLE 602	
CONSTRUCTION TYPE	X < 5 = 1 HR	
	5' < X < 10' = 1 HR	
	10' < X < 30' = 0 HR	
	X > 30' = 0 HR	
SHAFT ENCLOSURES	IBC 713.4	1 HR
EXIT STAIR ENCLOSURES	IBC 1023.2	N/A
CORRIDORS	IBC 1020.1	0 HR WITH AUTOMATIC SPRINKLER
OTHER PERMANENT PARTITIONS	IBC 602 & 603	0 HR WITH AUTOMATIC SPRINKLER
ROOF COVERING	IBC 1505.1	0 HR WITH AUTOMATIC SPRINKLER
STAIRS	IBC ????	N/A
PENTHOUSES	IBC ????	N/A
INCIDENTAL USE AREAS		
STORAGE ROOMS (OVER 100 SF)	AUTOMATIC SPRINKLER (SMOKE RESISTIVE)	
LAUNDRY ROOMS (OVER 100 SF)	AUTOMATIC SPRINKLER (SMOKE RESISTIVE)	

Department Legend

- ACCESORY
- ASSEMBLY
- BUISNESS

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LIFE SAFETY PLAN - FIRST FLOOR

SHEET NUMBER
LS101

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PARKING SUMMARY TABLE					
PROPOSED USE	REQ'D PARKING RATIO	PROPOSED GFA	# OF REQ'D PARKING STALLS	# OF PROPOSED PARKING STALLS	# OF ADA STALLS REQ'D (# PROVIDED)
PUBLIC LIBRARY	1 STALL PER 400SF + (EMPLOYEES + 2)	12,493SF	34	87	2(4)

LEGEND	
PARKING COUNT	(#)
PROPERTY LINE	℄
RIGHT - OF -WAY	R/W

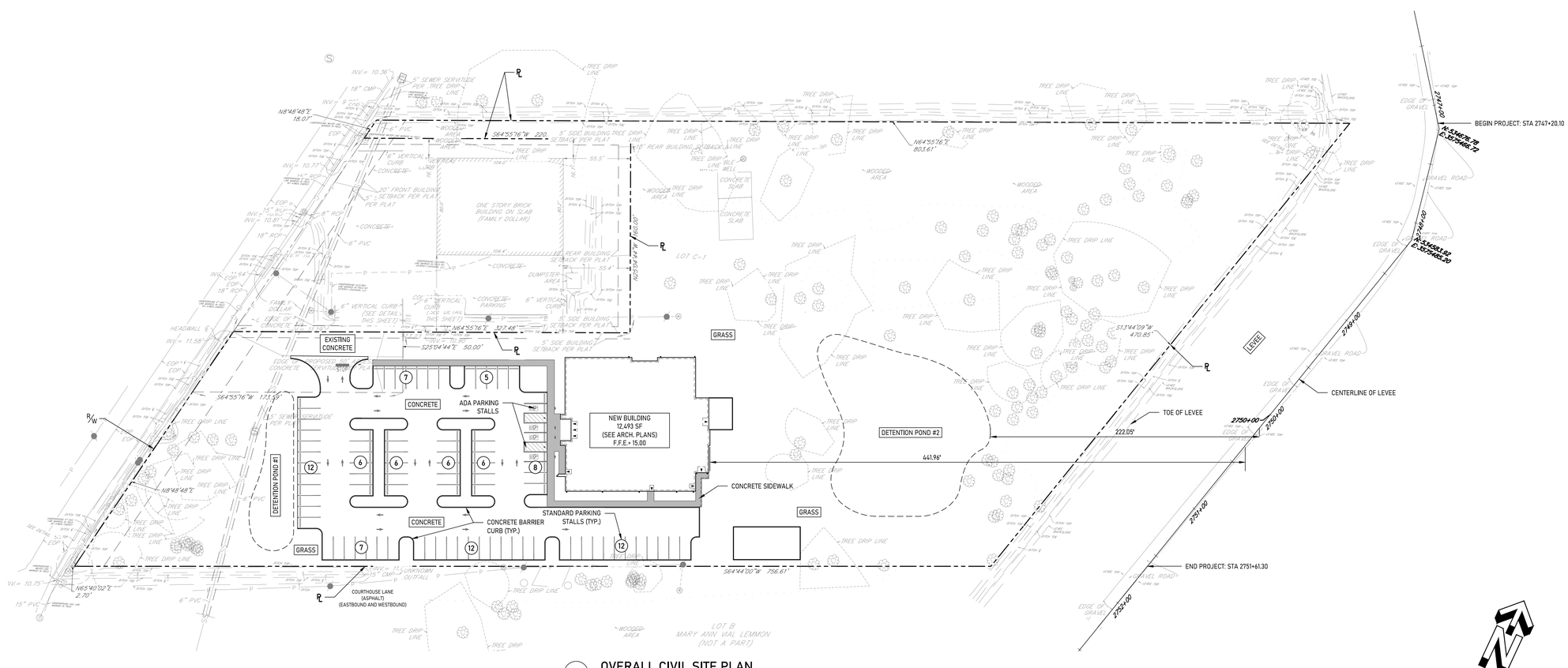
CROSS SECTION: SECTION NUMBER / SHEET NUMBER — 1 / C###

DRAWING TITLE: VIEW NUMBER # — VIEW TITLE — Scale: 1:1

DETAIL CALL OUT: DETAIL NUMBER #/C### — SHEET NUMBER

GENERAL NOTES:

1. INFORMATION DEPICTING THE EXISTING CONDITIONS HEREON WAS TAKEN FROM "A BOUNDARY & TOPOGRAPHIC SURVEY OF SAINT CHARLES BRANCH LIBRARY, TRACT C2-A, JAMES P. VITAL ESTATE, HAHNVILLE, PARISH OF SAINT CHARLES, LOUISIANA " BY BFM CORPORATION, LLC, DATED 1/19/25. FOX-NESBIT ENGINEERING, LLC HAS NOT FIELD-VERIFIED THE ITEMS IDENTIFIED ON THIS SURVEY.
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM), FIRM PANEL ID: 22016001250 HAVING AN EFFECTIVE DATE OF 06/6/92, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" - AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE. FLOOD ZONE INFORMATION SHALL BE CONFIRMED WITH ST. CHARLES PARISH.
3. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION TO HAVE THEIR UTILITIES LOCATED IN THE FIELD. CONTRACTOR SHALL MAKE REQUEST THROUGH LOUISIANA ONE CALL (811).



1 OVERALL CIVIL SITE PLAN
Scale: 1" = 40'

0 40' 80'

FOX-NESBIT
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OVERALL CIVIL SITE PLAN

SHEET NUMBER
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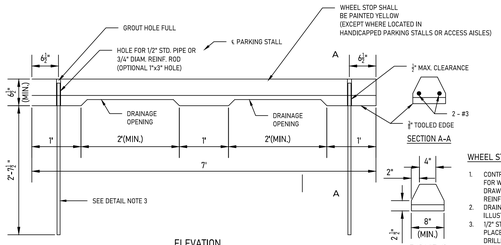
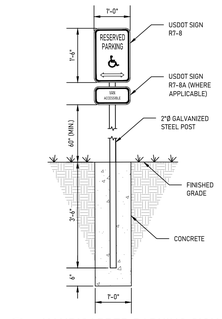


ELEVATION

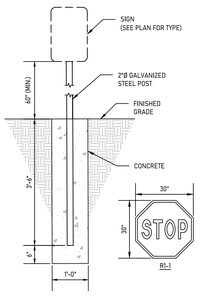
WHEEL STOP DETAIL NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR WHEEL STOPS PRIOR TO CONSTRUCTION. DRAWINGS SHALL INCLUDE ALL DIMENSIONS, REINFORCING, AND COLORS AS SHOWN HEREON.
2. DRAINAGE OPENINGS MUST BE PROVIDED & ILLUSTRATED ON SHOP DRAWINGS.
3. ½" STD PIPE OR 3/4" REINF. ROD SHALL BE PLACED PRIOR TO SURFACING OR IN A HOLE DRILLED IN THE FINISHED SURFACE WITH A TIGHT FIT OBTAINED BY AN APPROVED METHOD, OR DRIVEN INTO THE SURFACING.

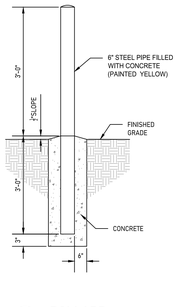
1 PRECAST CONCRETE WHEEL STOP DETAILS
NOT TO SCALE



7 HANDICAPPED PARKING SIGN
NOT TO SCALE



8 SIGN DETAIL
NOT TO SCALE



9 BOLLARD
NOT TO SCALE

KEYED NOTES	
1	CONCRETE SIDEWALK (3/C300)
2	(UNUSED)
3	6" BARRIER CURB (9/C300)
4	CURB TERMINUS (8/C300)
5	SIDEWALK TURNDOWN (10/C300)
6	(UNUSED)
7	CHILLER PAD (SEE STRUCT. PLANS)
8	8" SOLID BLUE STRIPE
9	8" BLUE STRIPE 4' O.C. @45°
10	PAINTED INTERNATIONAL SYMBOL OF ACCESS (5/C101)
11	"UNUSED"
12	HANDICAPPED PARKING VAN ACCESSIBLE SIGN (7/C101)
13	CONCRETE WHEEL STOPS (1/C101)
14	BOLLARDS (9/C101)
15	TRAFFIC FLOW ARROWS (4/C101)
16	END OF LANE MARKINGS (6/C101)
17	"STOP" SIGN (8/C101)
18	STRUCTURAL SLAB. SEE STRUCT. PLANS.
19	SIDEWALK LEDGE (18/C300)

LEGEND	
KEYED NOTE	#
BUILDING ENTRANCES	
CONCRETE SIDEWALK (3/C300)	
STRUCTURAL SLAB. SEE STRUCTURAL PLANS.	
BARRIER CURB (9/C300)	
WHEEL STOP	
EDGE OF PAVEMENT	E.O.P.
PROPERTY LINE	℄
RIGHT - OF -WAY	R/W

GENERAL NOTES:

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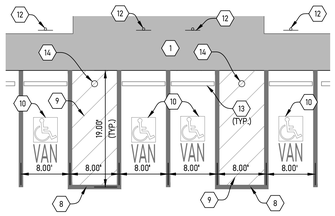
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM), FIRM PANEL ID: 22071400125C HAVING AN EFFECTIVE DATE OF 06/16/92, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" - AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE. FLOOD ZONE INFORMATION SHALL BE CONFIRMED WITH ST. CHARLES PARISH.
3. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION TO HAVE THEIR UTILITIES LOCATED IN THE FIELD. CONTRACTOR SHALL MAKE REQUEST THROUGH LOUISIANA ONE CALL (811).

SITE PLAN & GEOMETRIC LAYOUT NOTES:

1. WHERE CURVE DATA IS NOT SHOWN, CURVES SHALL HAVE A TOTAL ANGLE OF 90°.
2. WHERE NO CURB RADIUS IS SHOWN, RADIUS SHALL BE 5' ALONG FACE OF CURB.
3. DIMENSIONS FROM SHOWN PROPERTY BOUNDARIES ARE TAKEN TO THE BACK OF CURB. ALL OTHER DIMENSIONS & ALL CURVE DATA ARE TAKEN TO THE FACE OF CURB.
4. ALL PROPOSED SIGNAGE & PAVEMENT STRIPING SHALL CONFORM TO THE CURRENT EDITION OF THE M.U.T.C.D.

CURVE TABLE					
CURVE #	LENGTH	RADIUS	Δ	CHORD DIRECTION	CHORD LENGTH
C1	39.02'	25.00'	89° 25' 33"	N69° 58' 46"W	35.18'
C2	23.77'	15.00'	90° 34' 27"	N20° 01' 14"E	21.32'
C3	12.57'	8.00'	90° 00' 00"	N70° 16' 00"W	11.31'
C4	21.97'	8.00'	157° 22' 36"	S76° 02' 42"W	15.69'
C5	21.74'	54.14'	23° 00' 36"	S14° 08' 54"E	21.60'
C6	48.37'	117.36'	23° 36' 56"	S13° 50' 44"E	48.03'
C7	37.78'	57.96'	37° 20' 39"	S20° 42' 36"E	37.11'
C8	34.80'	18.74'	106° 23' 01"	N87° 25' 35"E	30.01'
C9	15.58'	15.00'	59° 30' 04"	N4° 29' 02"E	14.89'

2 TYPICAL PARKING STALL LAYOUT
NOT TO SCALE

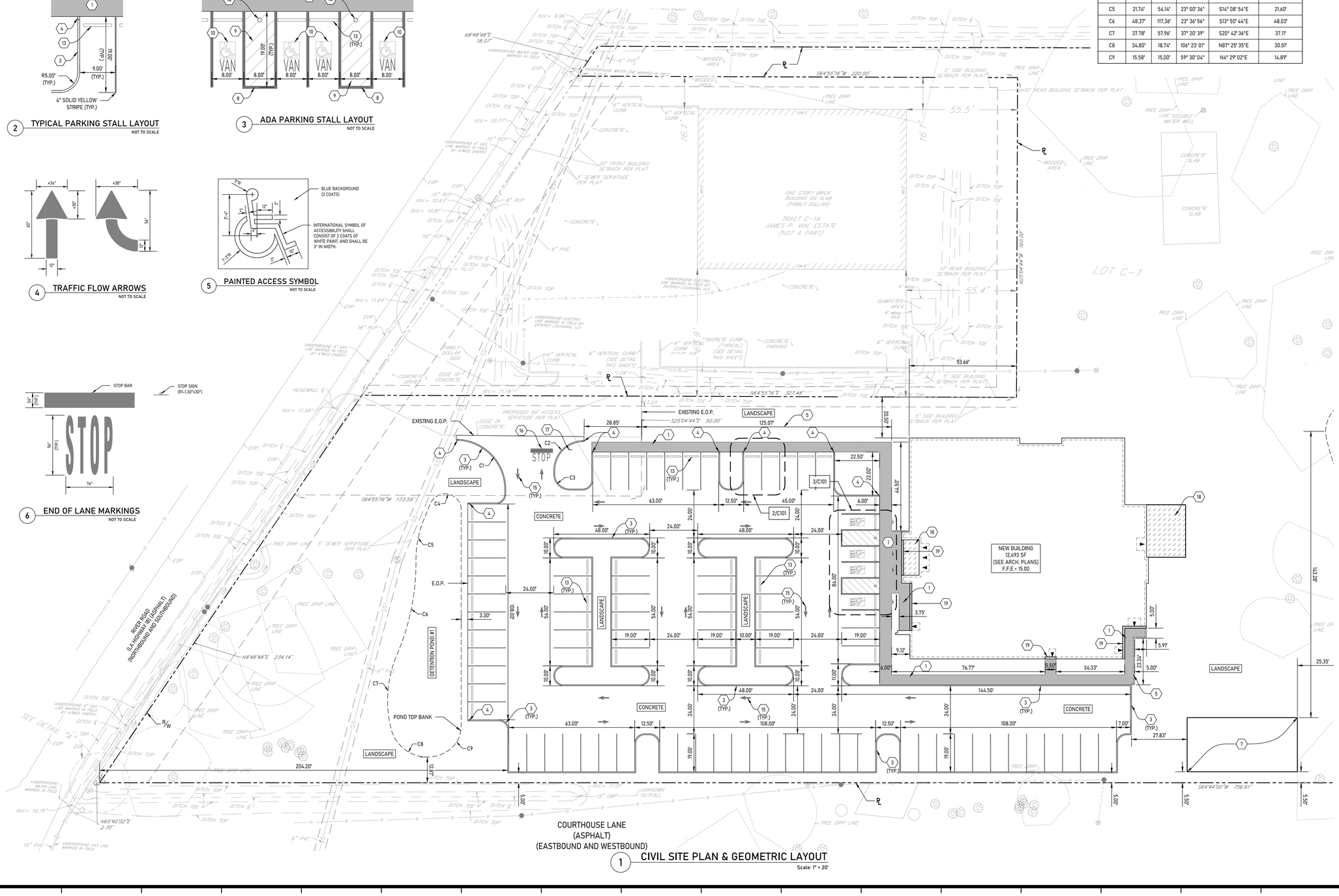


3 ADA PARKING STALL LAYOUT
NOT TO SCALE

4 TRAFFIC FLOW ARROWS
NOT TO SCALE

5 PAINTED ACCESS SYMBOL
NOT TO SCALE

6 END OF LANE MARKINGS
NOT TO SCALE



1 CIVIL SITE PLAN & GEOMETRIC LAYOUT
Scale: 1" = 20'

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PROJECT NO: 4024101

CIVIL SITE PLAN & GEOMETRIC LAYOUT

SHEET NUMBER
C101

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BATON ROUGE
NEW ORLEANS
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www.fox-nesbit.com

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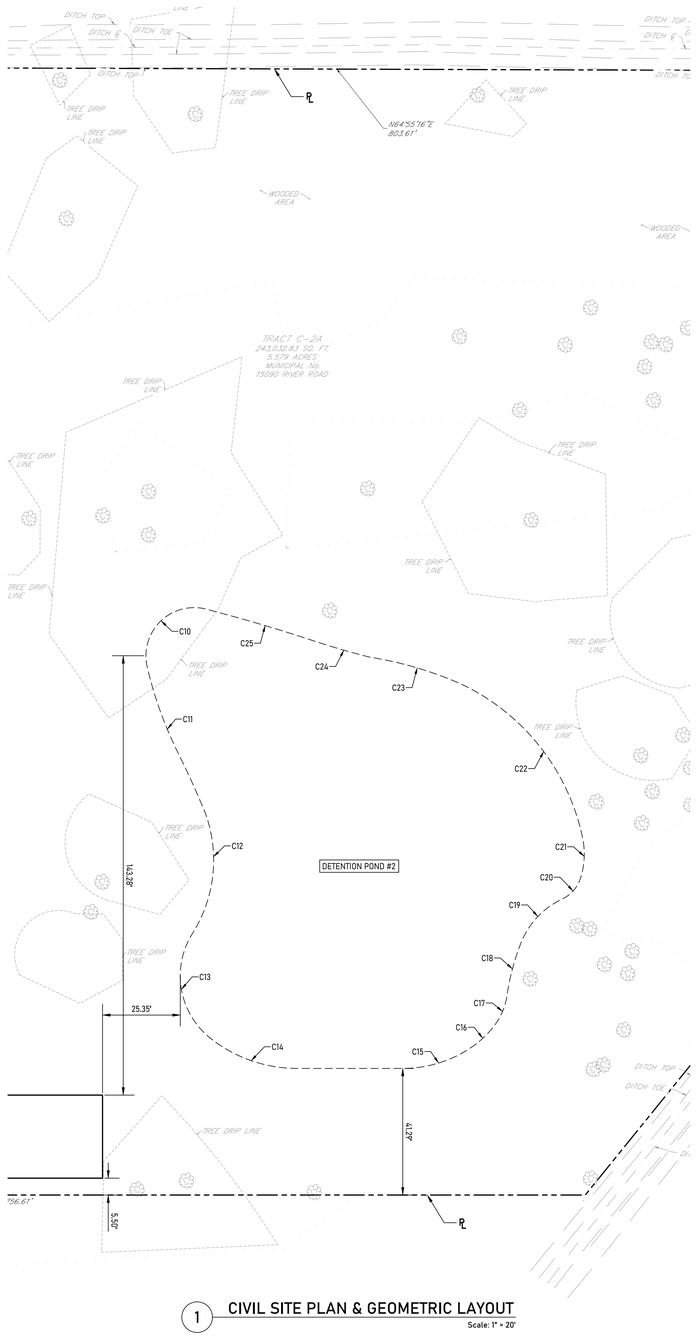
CURVE TABLE					
CURVE #	LENGTH	RADIUS	Δ	CHORD DIRECTION	CHORD LENGTH
C10	32.35'	15.74'	117° 43' 40"	S20° 34' 36"W	26.95'
C11	28.72'	127.55'	12° 54' 11"	S44° 44' 19"E	28.66'
C12	41.22'	44.85'	52° 39' 18"	S19° 24' 11"E	39.78'
C13	38.02'	25.97'	83° 53' 21"	S35° 01' 13"E	34.71'
C14	30.39'	45.55'	38° 13' 48"	N83° 55' 13"E	29.83'
C15	23.73'	39.89'	34° 05' 13"	N47° 41' 23"E	23.38'
C16	10.33'	31.97'	18° 30' 54"	N21° 23' 20"E	10.29'
C17	10.82'	21.30'	29° 06' 04"	N2° 25' 09"W	10.70'
C18	17.71'	77.57'	13° 04' 38"	N10° 25' 52"W	17.67'
C19	20.15'	26.53'	43° 30' 39"	N17° 51' 46"E	19.67'
C20	9.36'	11.37'	47° 09' 46"	N16° 02' 13"E	9.10'
C21	13.34'	25.78'	29° 38' 37"	N22° 21' 58"W	13.19'
C22	65.64'	71.70'	52° 27' 18"	N63° 20' 30"W	63.37'
C23	31.68'	118.97'	15° 15' 25"	S81° 16' 13"W	31.59'
C24	18.55'	256.02'	4° 09' 05"	S80° 54' 30"W	18.55'
C25	36.99'	598.18'	3° 32' 36"	S81° 12' 44"W	36.99'



1 CIVIL SITE PLAN & GEOMETRIC LAYOUT
Scale: 1" = 20'

GENERAL NOTES:

1. INFORMATION DEPICTING THE EXISTING CONDITIONS HEREON WAS TAKEN FROM "A BOUNDARY & TOPOGRAPHIC SURVEY OF SAINT CHARLES BRANCH LIBRARY, TRACT C2-A, JAMES P. VITAL ESTATE, HAHNVILLE, PARISH OF SAINT CHARLES, LOUISIANA " BY BFM CORPORATION, LLC, DATED 1/19/25. FOX-NESBIT ENGINEERING, LLC HAS NOT FIELD-VERIFIED THE ITEMS IDENTIFIED ON THIS SURVEY.
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PROJECT NO: 4024101

0 20' 40'

CIVIL SITE PLAN & GEOMETRIC LAYOUT

SHEET NUMBER
C102

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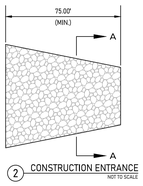
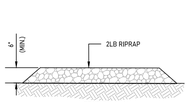
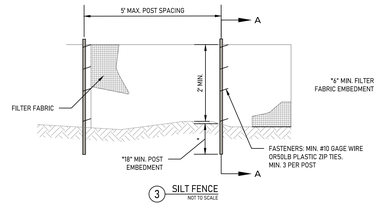


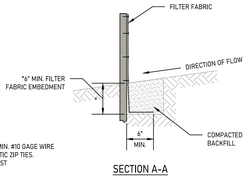
2 CONSTRUCTION ENTRANCE
NOT TO SCALE



SECTION A-A



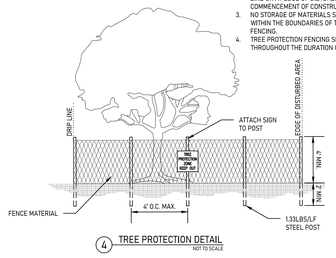
3 SILT FENCE
NOT TO SCALE



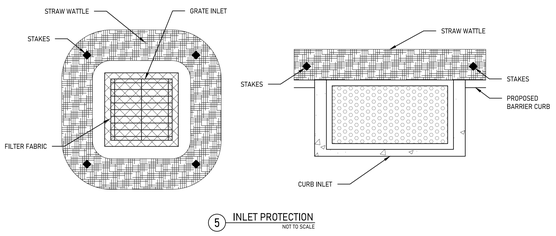
SECTION A-A

TREE PROTECTION NOTES:

1. FENCE MATERIAL SHALL CONSIST OF ORANGE, UV RESISTANT, HIGH TENSILE STRENGTH, POLYETHYLENE LAMINAR BARRICADE FABRIC.
2. INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
3. NO STORAGE OF MATERIALS SHALL BE PERMITTED WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
4. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION



4 TREE PROTECTION DETAIL
NOT TO SCALE



5 INLET PROTECTION
NOT TO SCALE

SITE CLEARING/DEMOLITION LEGEND

AREAS OF STRIPPING	
AREAS OF POND EXCAVATION	
PAVEMENT TO BE REMOVED	
GRAVEL TO BE REMOVED	
SILT FENCE (2/C200)	X
TREE PROTECTION FENCE (3/C200)	□
SAW CUT PAVEMENT	
ITEM TO BE REMOVED	X OR ~
EXISTING CONTOUR	14
EXISTING ELEVATION	× 14.00
DIRECTION OF OVERLAND FLOW	
PROPERTY LINE	℄
RIGHT-OF-WAY	℄/ROW

GENERAL NOTES:

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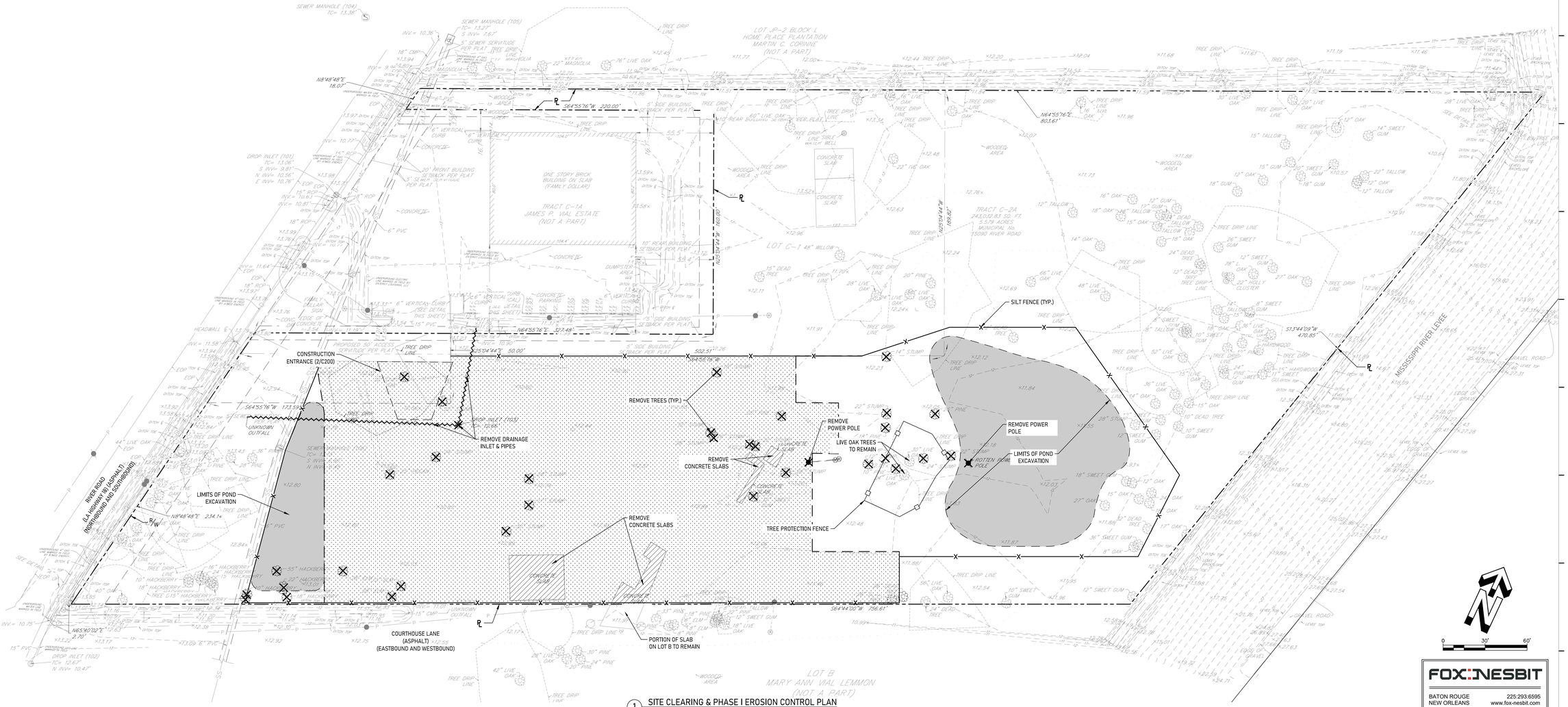
DEMOLITION NOTES:

1. THE LIMITS OF STRIPPING SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LIMITS BASED ON THE LAYOUT OF THE PROPOSED SITE IMPROVEMENTS.
2. AREAS WITHIN 5' OF PROPOSED PAVEMENT SHALL BE STRIPPED TO A MINIMUM DEPTH OF 6" OR AS REQUIRED TO ACHIEVE THE PROPOSED SUBGRADE ELEVATIONS IN ORDER TO REMOVE ALL VEGETATION, ORGANIC MATTER, AND DELETERIOUS MATERIALS & TO ACHIEVE STABLE SUBGRADE. ACTUAL DEPTH OF REMOVAL SHALL BE VERIFIED IN FIELD WITH THE GEOTECHNICAL ENGINEER.
3. ALL EXCESS MATERIAL SHALL BE REMOVED FROM SITE & DISPOSED OF LAWFULLY.
4. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS RELATED TO THE DEMOLITION & REMOVAL OF ALL POTENTIALLY HAZARDOUS MATERIALS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES DESIGNATED TO REMAIN THROUGHOUT CONSTRUCTION, AND SHALL REPAIR OR REPLACE DAMAGED ITEMS IN KIND AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE EXISTING TEMPORARY BENCHMARKS.
7. CONTRACTOR SHALL MAKE EVERY EFFORT TO LOCATE EXISTING UTILITIES WITHIN AREAS OF CONSTRUCTION. COORDINATE WITH OWNERS AND/OR UTILITY COMPANIES AS APPLICABLE. EXERCISE CAUTION DURING ALL WORK.
8. NOTIFY ENGINEER OF ANY UNDERGROUND UTILITIES DISCOVERED WITHIN THE PROJECT AREA OR OTHER CONDITIONS THAT DO NOT MATCH THE TOPOGRAPHIC SURVEY.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS RELATED TO THE CONTROL OF EROSION & PROTECTION OF RECEIVING STORMWATER SYSTEMS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING & MAINTAINING PROVISIONS OF THE STORMWATER POLLUTION PREVENTION PLAN.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT COVER IS ESTABLISHED.
6. STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF ANY OTHER CONSTRUCTION OR DEMOLITION ACTIVITIES, AND SHALL REMAIN IN-PLACE UNTIL SUCH TIME THAT THE PAVED SURFACE IS CONSTRUCTED.
7. SILT FENCE INSTALLATION SHALL PRECEDE ANY CLEARING, DEMOLITION, OR CONSTRUCTION ACTIVITIES.
8. WITH THE EXCEPTION OF AREAS THAT ARE DESIGNATED TO BE FINISHED WITH PAVEMENT, SOD, OR PLANTINGS, ALL DISTURBED AREAS SHALL BE SEEDED WITHIN SEVEN (7) DAYS AFTER THE COMPLETION OF CLEARING ACTIVITIES.
9. ALL EROSION & SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED WEEKLY (AT A MINIMUM) AND AFTER EACH RAINFALL. DEFICIENT AREAS SHALL BE REPAIRED BY CONTRACTOR IMMEDIATELY.
10. PROVIDE SILT FENCE AROUND SOIL STOCKPILES THAT WILL NOT BE USED WITHIN THREE (3) DAYS FROM PLACEMENT, OR THAT SHED RUNOFF TOWARDS UNPROTECTED DRAINAGE SYSTEMS.
11. PROVIDE INLET PROTECTION PER 5/C200 FOR ALL NEW INLETS & KEEP IN PLACE UNTIL SURROUNDING AREAS HAVE BEEN PERMANENTLY STABILIZED.



1 SITE CLEARING & PHASE I EROSION CONTROL PLAN
Scale: 1" = 30'

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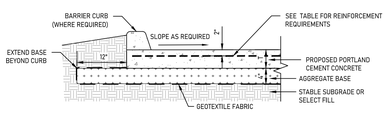
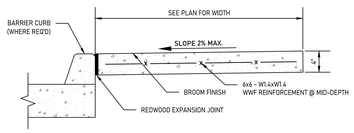
SITE CLEARING & PHASE I EROSION CONTROL PLAN

SHEET NUMBER
C200



2 TYPICAL CONCRETE PAVEMENT SECTION
NOT TO SCALE



CONCRETE SIDEWALK NOTES:
1. ½" TOOLED JOINTS REQUIRED AT INTERVALS EQUAL TO WIDTH OF SIDEWALK. (8' MAX. INTERVAL)
2. ½" EXPANSION JOINTS REQUIRED AT 100' MAX. AND AT JUNCTIONS WITH CURBS, DRIVES, OR OTHER WALKS.
3. SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 2% (1:50).
4. SIDEWALK LONGITUDINAL SLOPES SHALL NOT EXCEED 5% (1:20).

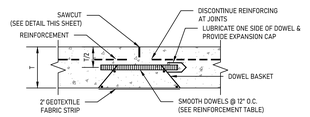
3 CONCRETE SIDEWALK
NOT TO SCALE

12 PAVEMENT BACKING DETAIL
NOT TO SCALE

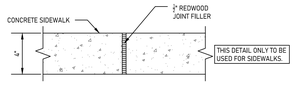
14 KEYWAY DETAIL
NOT TO SCALE

15 SAWCUT DETAIL
NOT TO SCALE

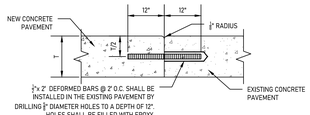
19 TYPICAL CURB BACKING AT ISLAND
NOT TO SCALE



4 CONTRACTION JOINT
NOT TO SCALE



5 EXPANSION JOINT (EXP)
NOT TO SCALE

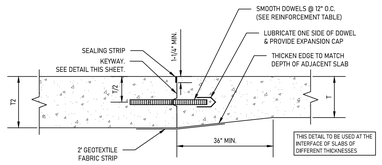


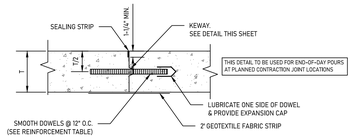
½"x 2" DEFORMED BARS @ 2' O.C. SHALL BE INSTALLED IN THE EXISTING PAVEMENT BY DRILLING ¾" DIAMETER HOLES TO A DEPTH OF 12". HOLES SHALL BE FILLED WITH EPOXY.

11 LONGITUDINAL BUTT JOINT (LBJ)
NOT TO SCALE

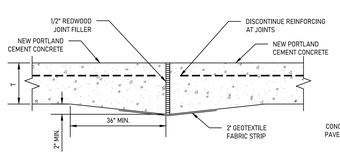
13 CONTRACTION JOINT INTERCEPT
NOT TO SCALE

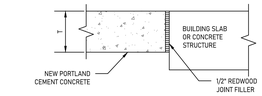
16 UNUSED
NOT TO SCALE



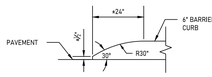


6 CONSTRUCTION JOINT (CS)
NOT TO SCALE

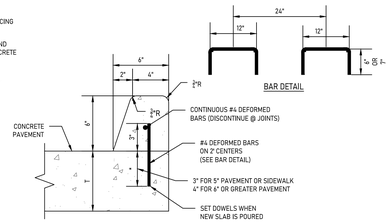




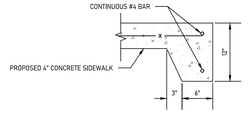
7 ISOLATION JOINT (ISO)
NOT TO SCALE



8 CURB TERMINUS DETAIL
NOT TO SCALE



9 PIN-ON BARRIER CURB
NOT TO SCALE



10 CONCRETE SIDEWALK TURNDOWN
NOT TO SCALE

GENERAL NOTES:

1. INFORMATION DEPICTING THE EXISTING CONDITIONS HEREON WAS TAKEN FROM "A BOUNDARY & TOPOGRAPHIC SURVEY OF SAINT CHARLES BRANCH LIBRARY, TRACT C2-A, JAMES P. VITAL ESTATE, HAHNVILLE, PARISH OF SAINT CHARLES, LOUISIANA " BY BFM CORPORATION, LLC, DATED 1/19/25. FOX-NESBIT ENGINEERING, LLC HAS NOT FIELD-VERIFIED THE ITEMS IDENTIFIED ON THIS SURVEY.
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM), FIRM PANEL ID: 22018D125C HAVING AN EFFECTIVE DATE OF 06/16/92, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" - AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE. FLOOD ZONE INFORMATION SHALL BE CONFIRMED WITH ST. CHARLES PARISH.
3. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION TO HAVE THEIR UTILITIES LOCATED IN THE FIELD. CONTRACTOR SHALL MAKE REQUEST THROUGH LOUISIANA ONE CALL (811).

PAVING & JOINT NOTES:

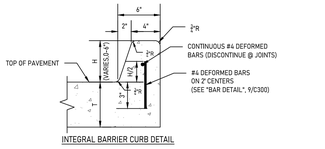
1. ALL CONCRETE PAVEMENT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000PSI.
2. ALL JOINTS SHALL BE OFFSET A MINIMUM OF 2FT FROM EDGE OF PAVEMENT IN ORDER TO PROVIDE A PERPENDICULAR INTERSECTION WHERE CURVES OR ACUTE ANGLES ARE ENCOUNTERED.
3. SAWCUTS SHALL BE MADE AS SOON AS PAVEMENT IS STABLE ENOUGH TO SUPPORT SAWING EQUIPMENT.
4. ALL DOWELS & TIE BARS MUST BE SET AT 90° ANGLES WITH RESPECT TO THE VERTICAL PLANE OF THE SLAB AT THE TIME OF CONCRETE INSTALLATION.
5. ISOLATION JOINTS SHALL BE REQUIRED WHERE ALL COLUMNS, FENCE FOOTINGS, OR OTHER STRUCTURES ENCOUNTER CONCRETE PAVEMENT.
6. WHERE REQUIRED, GEOTEXTILE FABRIC BENEATH PROPOSED JOINTS SHALL BE A MINIMUM OF 2FT IN WIDTH, WITH A MINIMUM OF 1FT EXTENDING BEYOND EACH JOINT, AND SHALL EXTEND THE FULL LENGTH OF THE JOINT.
7. ALL PAVEMENT JOINTS SHALL BE EXTENDED THROUGH CURBS, AND SHALL EXTEND THROUGH THE FULL DEPTH OF CURBS.
8. PAVEMENT BASE SHALL EXTEND 12"(MIN.) BEYOND BACK OF PROPOSED CURB IN ALL PAVED AREAS.

PAVING & JOINT LEGEND

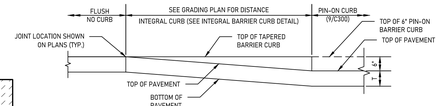
LIGHT DUTY CONCRETE PAVEMENT (5")	
MEDIUM DUTY CONCRETE PAVEMENT (6")	
HEAVY DUTY CONCRETE PAVEMENT (7")	
STRUCTURAL SLAB	
CONCRETE SIDEWALK (4") (3/C300)	
CONTRACTION JOINT (4/C300)	
CONSTRUCTION JOINT (6/C300)	CS
ISOLATION JOINT(7/C300)	ISO
LONGITUDINAL BUTT JOINT (11/C300)	LBJ
TOOLED JOINT	
SIDEWALK EXPANSION JOINT (5/C300)	EJ
PANELS TO BE REINFORCED W/ #4 DEFORMED BARS @ 12" O.C.E.W.	*
CONCTRACTION JOINT INTERCEPT (13/C300)	

REQUIRED REINFORCEMENT TABLE

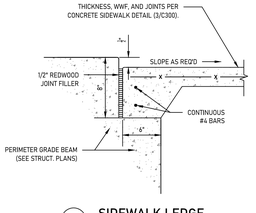
T OR T2	DOWEL SIZE	REINFORCEMENT
5"	DO NOT USE	6 x 6 - W2.9 x W2.9 WWF
6"	#6 x 18"	6 x 6 - W2.9 x W2.9 WWF
7"	#7 x 18"	#4 @ 12" O.C.E.W.



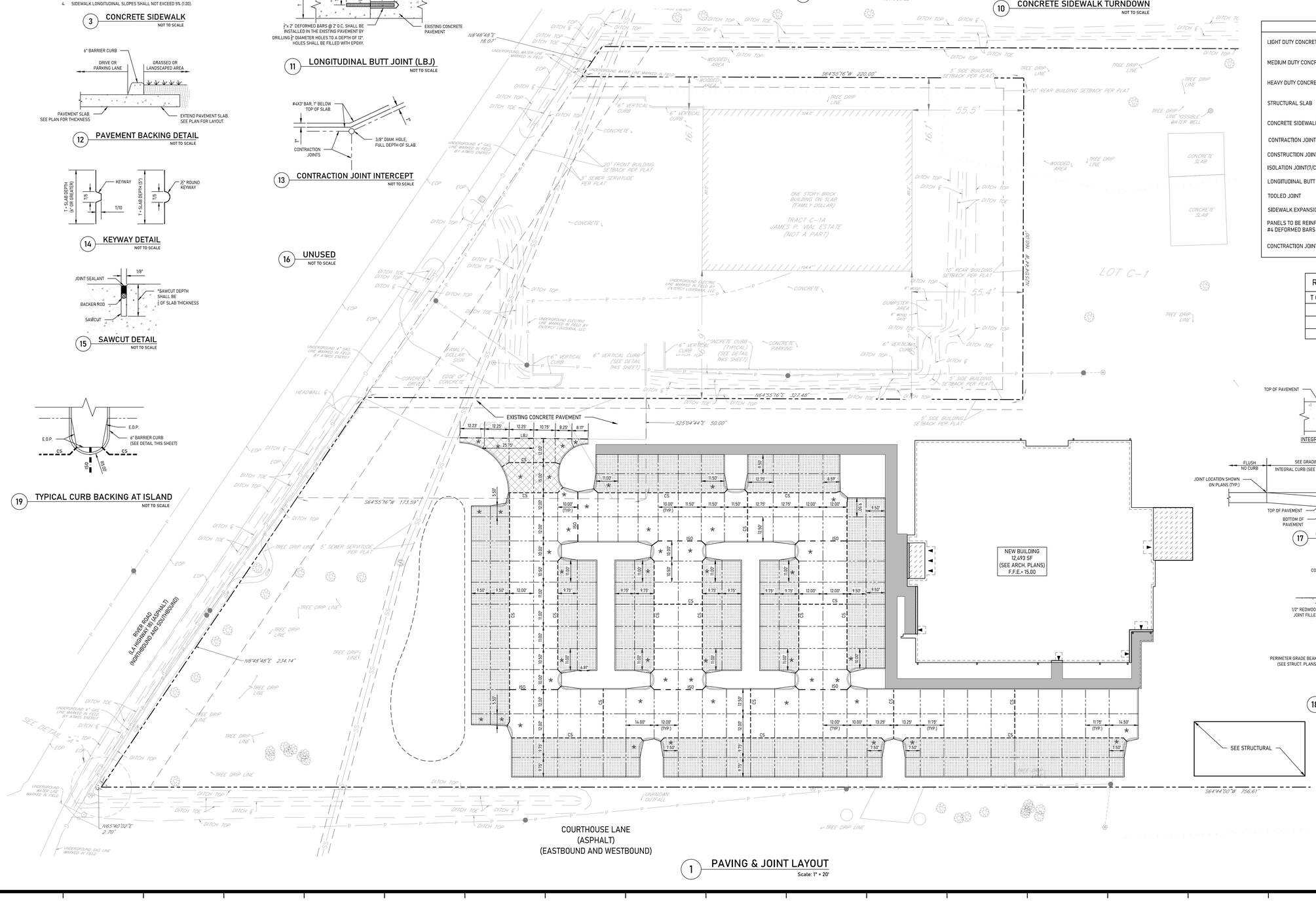
INTEGRAL BARRIER CURB DETAIL



17 CURB TRANSITION
NOT TO SCALE



18 SIDEWALK LEDGE
NOT TO SCALE



1 PAVING & JOINT LAYOUT
Scale: 1" = 20'

0 20' 40'

FOX-NESBIT
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NEW ORLEANS www.fox-nesbit.com
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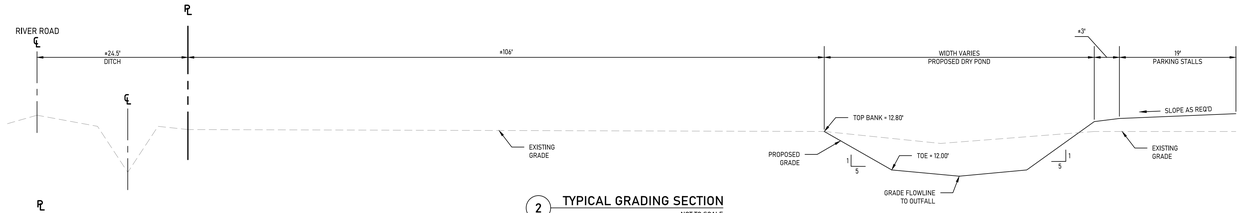
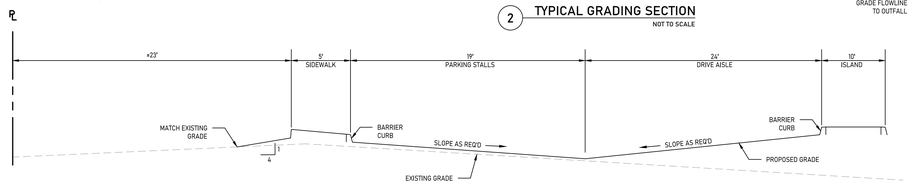
PAVING & JOINT LAYOUT

SHEET NUMBER
C300

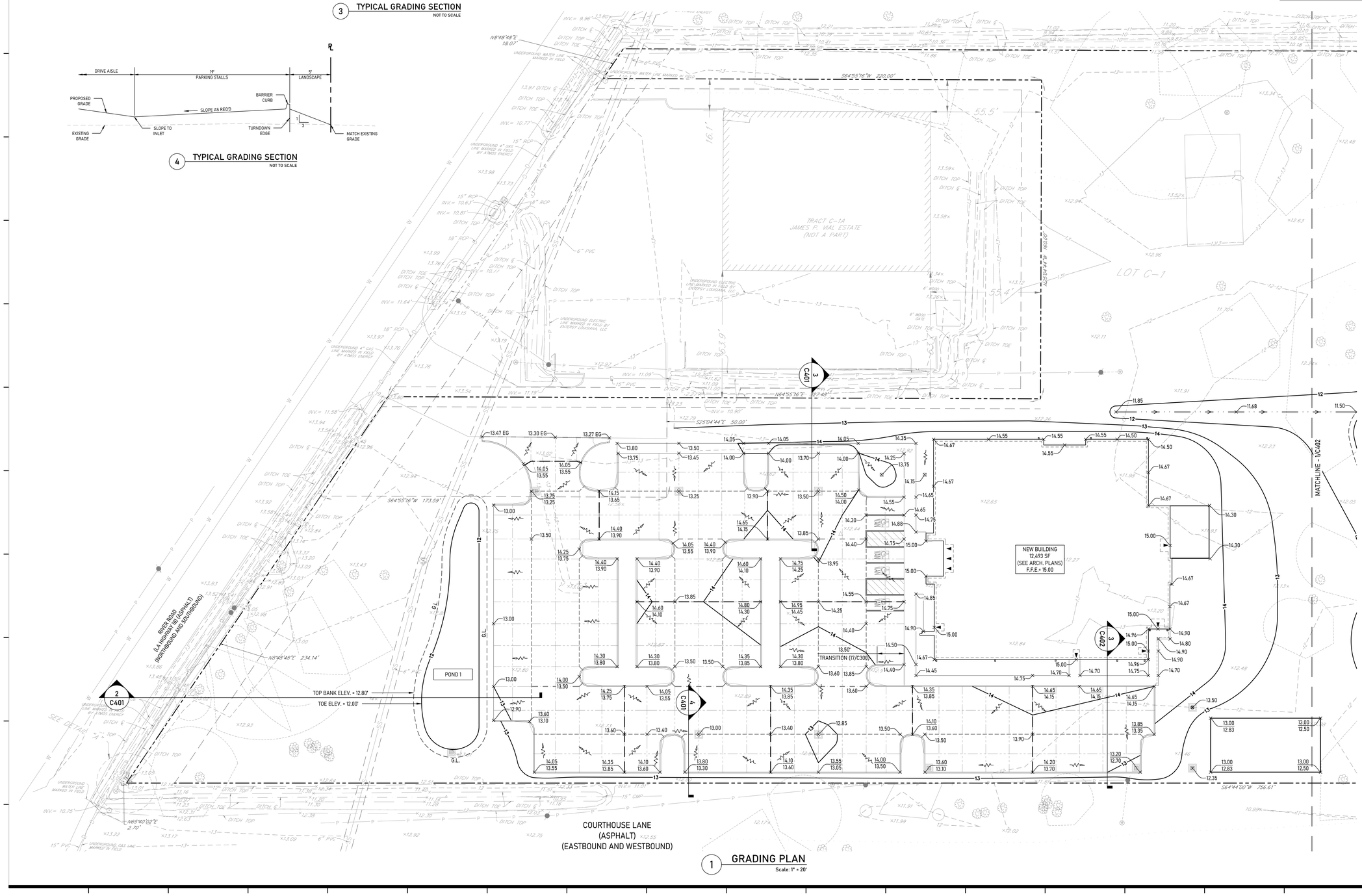


2 TYPICAL GRADING SECTION
NOT TO SCALE



3 TYPICAL GRADING SECTION
NOT TO SCALE

4 TYPICAL GRADING SECTION
NOT TO SCALE



1 GRADING PLAN
Scale: 1" = 20'

GRADING NOTES:

1. UNLESS OTHERWISE SPECIFIED, FINISHED GRADE AT PERIMETER OF PROPOSED PAVEMENT SHALL SLOPE TO EXISTING GRADE AT A MAXIMUM SLOPE OF 4H:1V.
2. GRADES SHOWN HEREON REPRESENT THE GRADE OF THE FINISHED SURFACE. CONTRACTOR SHALL ACCOUNT FOR DEPTHS OF GRASS, LANDSCAPING, OR OTHER IMPROVEMENTS WHEN SETTING NEW GRADES.
3. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM EXISTING & PROPOSED BUILDINGS AT ALL TIMES.
4. ALL EXISTING ELEVATIONS ANNOTATED WITH 'EG' SHALL BE VERIFIED PRIOR TO THE INSTALLATION OF THE ASSOCIATED PROPOSED FEATURE. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY IF ANY DISCREPANCIES EXIST.
5. EROSION CONTROL BLANKET (ECB) SHALL BE PROVIDED ON ALL FINISHED GREENSPACE SLOPES EXCEEDING 5% (20H:1V) WHERE NO SOD OR OTHER PERMANENT MEANS OF STABILIZATION ARE SPECIFIED.
6. EROSION CONTROL BLANKET INSTALLATION SHALL TAKE PLACE IMMEDIATELY FOLLOWING THE COMPLETION OF GRADING ACTIVITIES. CONTRACTOR SHALL RE-GRADE ANY AREAS OF EROSION OR INCONSISTENT SLOPES PRIOR TO INSTALLATION.
7. FINISHED SLOPES WITHIN ADA PARKING AND ACCESS AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.
8. PROVIDE POSITIVE DRAINAGE AROUND ALL EQUIPMENT PADS & FOUNDATIONS. VERIFY EQUIPMENT PAD LAYOUTS WITH M.E.P. PLANS & ADJUST GRADES AS NEEDED.
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10. CROSS SLOPE ALONG PROJECTED SIDEWALK PATH THROUGH DRIVEWAY SHALL NOT EXCEED 2%.
11. SLOPE ALL INTERIOR LANDSCAPE ISLANDS TO DRAIN OVER ADJACENT CURBS.

GENERAL NOTES:

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GRADING LEGEND

PROPOSED FINISHED GRADE	× 14.00
MATCH EXISTING GRADE	× 14.00 EG
PROPOSED TOP OF CURB ELEVATION / PROPOSED PAVEMENT ELEVATION	× 14.50 / 14.00
EXISTING ELEVATION	× 14.50
PROPOSED CONTOUR	14
GRADING LINE	G.L.
EXISTING CONTOUR	14
RIDGE LINE	
DRAINAGE STRUCTURES	
DIRECTION OF OVERLAND FLOW	

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PROJECT NO: 4024101

GRADING PLAN

SHEET NUMBER
C401

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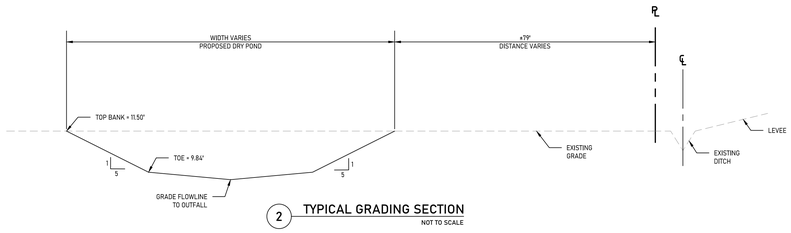
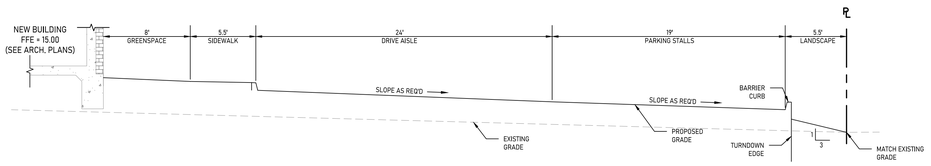


2 TYPICAL GRADING SECTION
NOT TO SCALE



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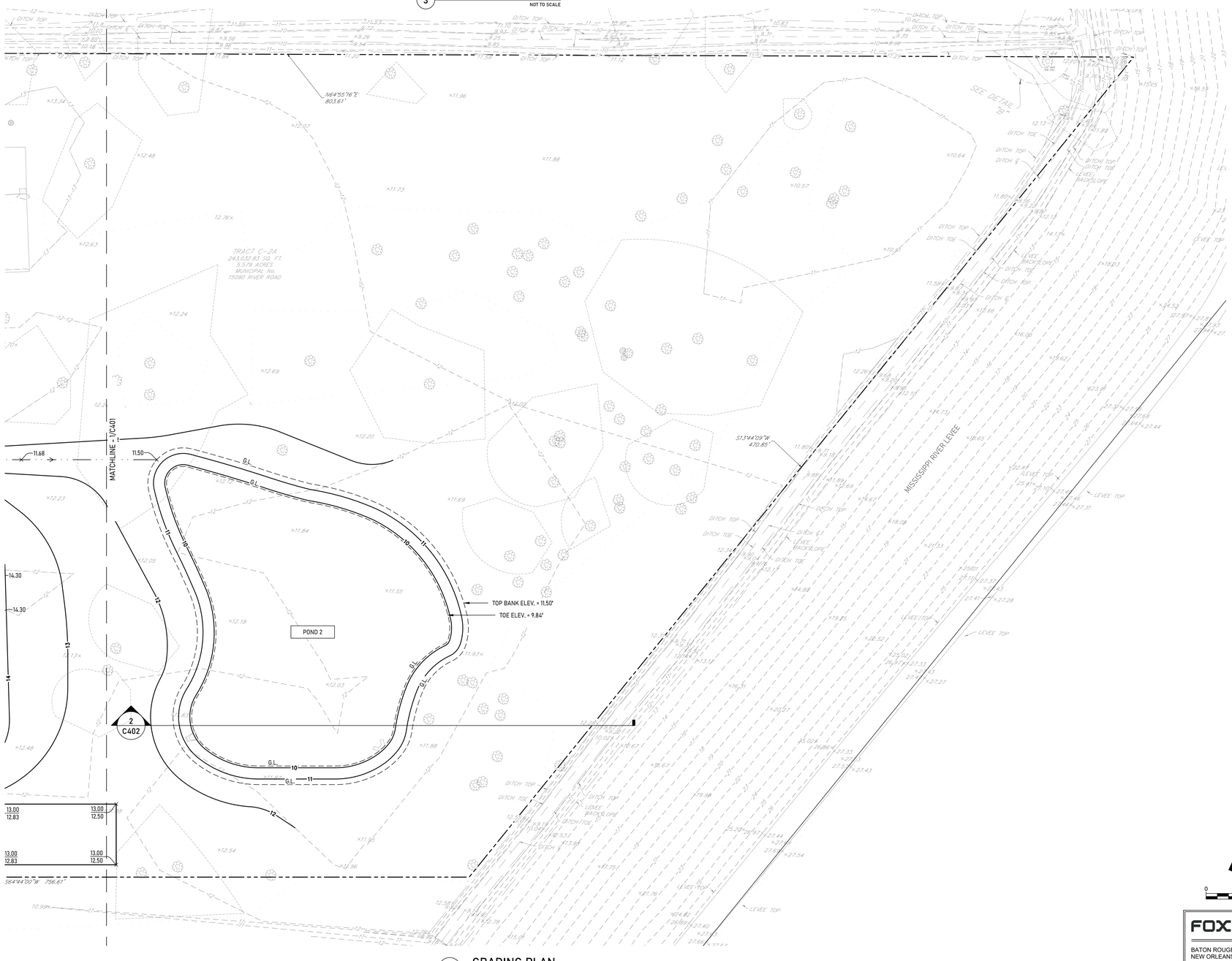
RIDGE LINE	
DRAINAGE STRUCTURES	
DIRECTION OF OVERLAND FLOW	



1 GRADING PLAN
Scale: 1" = 20'

0 20' 40'

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GRADING PLAN

SHEET NUMBER
C402

DRAINAGE STRUCTURE TABLE					
STRUCTURE	TYPE	RIM ELEV.	INV. IN	INV. OUT	OUTFLOW PIPE
100	2X2 DI	13.25		11.25 (101)	12" RCP x 68' @ 0.25%
101	2X2 DI	13.25	11.07 (100)	11.07 (104)	12" SDP x 66' @ 0.25%
102	YARD DRAIN	14.15		11.02 (103)	12" SDP x 20' @ 0.25%
103	YARD DRAIN	13.75	10.97 (102)	10.97 (104)	12" SDP x 30' @ 0.25%
104	2X2 DI	13.50	10.89 (103) 10.89 (101)	10.89 (106)	12" SDP x 118' @ 0.25%
105	2X2 DI	13.00		10.74 (106)	12" SDP x 56' @ 0.25%
106	2X2 DI	12.85	10.59 (104) 10.59 (105)	10.59 (107)	15" RCP x 54' @ 0.25%
107	2X2 DI	13.10	10.44 (106)	10.44 (108)	15" SDP x 100' @ 0.25%
108	2X2 DI	12.70	10.18 (107)	10.18 (109)	18" RCPA x 24' @ 0.25%
109	2X2 DI	12.35	10.11 (108)	10.11 (110)	18" RCPA x 27' @ 0.25%
110	STORM MANHOLE	13.50	10.03 (109)	10.03 (111)	18" RCPA x 97' @ 0.19%
111	FLARED END		9.84 (110)		
200	HEADWALL			9.34 (201)	12" SDP x 72' @ 0.20%
201	PIPE OUT		9.19 (200)		
300	2X2 DI	13.25		11.50 (301)	12" SDP x 20' @ 1.50%
301	PIPE OUT		11.16 (300)		

STORM DRAINAGE & UTILITY KEYED NOTES	
1	EXISTING UTILITY POLE
2	EXISTING OVERHEAD ELECTRIC LINE
3	EXISTING 10" WATER MAIN (SEE UTILITY NOTE 1)
4	EXISTING 4" GAS MAIN
5	EXISTING 6" SANITARY SEWER MAIN
6	3" SANITARY SEWER
7	4" SANITARY SEWER
8	T-WYE
9	45° BEND
10	CONNECT TO EXISTING SANITARY MAIN W/ WYE @ INV. = ±6.58'
11	6" WATER LINE
12	6" FIRE WATER LINE
13	4" FIRE WATER LINE
14	3" DOMESTIC WATER LINE
15	TEE W/ D.I.M.J.
16	BEND W/ D.I.M.J.
17	6" x 4" REDUCER W/ D.I.M.J.
18	NEW FIRE HYDRANT
19	BACKFLOW PREVENTERS (2/C502)
20	TAP EXISTING WATER MAIN
21	2 LB RIPRAP OVER GEOTEXTILE FABRIC
22	CHILLED WATER LINES (SEE M.E.P. PLANS)
23	CHILLER PAD (SEE STRUCT. PLANS)
24	ROOF DRAINS CONNECTION TO BUILDING (SEE M.E.P. PLANS)
25	WATER LINE TO MECHANICAL PAD (SEE M.E.P. PLANS)
26	CONNECT DOWNSPOUT LEADER TO INLET

UTILITY CONTACTS		
UTILITY	COMPANY	CONTACT
ELECTRICITY	ENTERGY	STEPHEN MIRAMBELL (504-840-2519)
WATER	ST. CHARLES PARISH	SEAN LEWIS (985-783-5110) seanl@scpwater.org
SEWER	ST. CHARLES PARISH	DAVID DEGENERES (985-783-5102) ddeddegeneres@stcharlesgov.net
COMMUN-ICATIONS	AT&T	AL FLORES (504-437-6549) alf78x@att.com

STORM DRAINAGE & UTILITY LEGEND	
PROPOSED CONTOUR	14
EXISTING CONTOUR	13
RIDGE LINE	
DIRECTION OF OVERLAND FLOW	
STORM DRAINAGE PIPE	
SWALE	
ROOF DRAIN LEADERS	
PRECAST DRAINAGE STRUCTURES	
POLYMER YARD DRAINS	
FLARED END	
HEADWALL	
REQUIRED CLEANOUT	C.O.
RIP RAP PAD	
KEYED NOTE	#
DRAINAGE STRUCTURE CALLOUT	#
EXISTING WATER LINE	W
EXISTING SANITARY SEWER LINE	SS
EXISTING OVERHEAD POWER LINE	P
DUCTILE IRON MECHANICAL JOINT	D.I.M.J.
DOWNSPOUT CONNECTIONS	D.S.
DOWNSPOUT DISCHARGE AT GRADE	
DOMESTIC WATER LINE	W
FIRE WATER LINE	FW
RESTRAINED JOINTS	
SANITARY SEWER LINE	SS

GENERAL NOTES:

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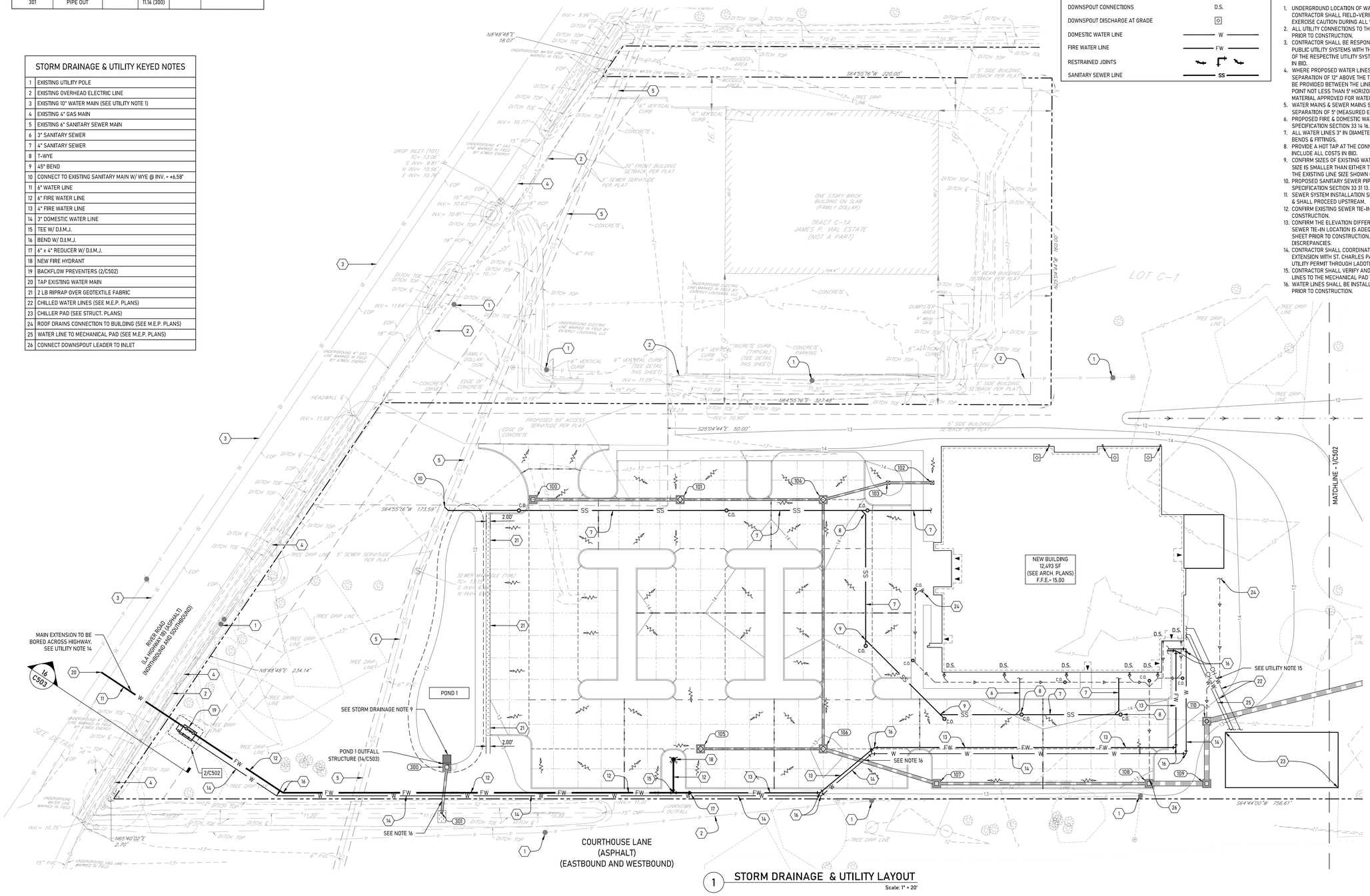
STORM DRAINAGE NOTES:

1. ALL DRAINAGE PIPES, STRUCTURES, AND FITTINGS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECTION 33 42 00.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDINGS AT ALL TIMES.
3. PROPOSED DRAINAGE SYSTEMS SHALL BE CONSTRUCTED BEGINNING AT THE OUTFALL POINT AND PROCEEDING UPSTREAM.
4. ALL GEOTEXTILE FABRIC SHALL BE CLASS 'D' UNLESS OTHERWISE SPECIFIED.
5. WHERE 'SDP' IS INDICATED, PIPE MATERIAL SHALL BE PLASTIC OR CONCRETE IN ACCORDANCE WITH SPECIFICATION SECTION 33 42 00.
6. ALL ROOF DRAIN LEADERS SHALL BE 8" SDP @ 1.00% SLOPE (MIN.), UNLESS OTHERWISE NOTED.
7. VERIFY ALL INTERNAL ROOF DRAIN LEADER CONNECTIONS TO BUILDING WITH MEP PLANS.
8. PROVIDE INLET PROTECTION FOR ALL INLETS THROUGHOUT CONSTRUCTION.
9. PROVIDE 4" THICK CONCRETE PAD W/ WWM9 - 1.4X1.4 WWF PLACED MID-DEPTH, PAD SHALL BE 4' (L), AND SHALL MATCH THE WIDTH OF THE CONTROL STRUCTURE, WITH BLOCK-OUT AS NECESSARY TO PERMIT TRASH RACK REMOVAL.
10. PROVIDE INLET PROTECTION PER 5/C200 FOR ALL NEW INLETS & KEEP IN PLACE UNTIL SURROUNDING AREAS HAVE BEEN PERMANENTLY STABILIZED.

UTILITY NOTES:

1. UNDERGROUND LOCATION OF WATER MAIN IS ESTIMATED BASED ON RECORD INFORMATION. CONTRACTOR SHALL FIELD-VERIFY ACTUAL LOCATION PRIOR TO CONSTRUCTION AND EXERCISE CAUTION DURING ALL WORK.
2. ALL UTILITY CONNECTIONS TO THE BUILDINGS SHALL BE VERIFIED WITH THE M.E.P. PLANS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONNECTIONS TO EXISTING PUBLIC UTILITY SYSTEMS WITH THE APPROPRIATE AGENCY/COMPANY HAVING OWNERSHIP OF THE RESPECTIVE UTILITY SYSTEM, AND SHALL INCLUDE ALL COSTS, FEES, PERMITS, ETC. IN BID.
4. WHERE PROPOSED WATER LINES & SANITARY SEWER LINES CROSS, A MINIMUM VERTICAL SEPARATION OF 12" ABOVE THE TOP OF THE SEWER LINE (MEASURED EDGE TO EDGE) SHALL BE PROVIDED BETWEEN THE LINES. THE WATER SERVICE LINE SHALL BE SLEEVED TO A POINT NOT LESS THAN 5' HORIZONTALLY FROM THE CENTERLINE OF THE SEWER LINE WITH MATERIAL APPROVED FOR WATER LINE CONSTRUCTION.
5. WATER MAINS & SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL SEPARATION OF 5' (MEASURED EDGE TO EDGE).
6. PROPOSED FIRE & DOMESTIC WATER PIPING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECTION 33 14 16.
7. ALL WATER LINES 3" IN DIAMETER & LARGER SHALL HAVE RESTRAINED JOINTS AT ALL BENDS & FITTINGS.
8. PROVIDE A HOT TAP AT THE CONNECTION TO THE EXISTING WATER LINE AS NEEDED, AND INCLUDE ALL COSTS IN BID.
9. CONFIRM SIZES OF EXISTING WATER LINES TO BE TAPPED, NOTIFY THE ENGINEER IF LINE SIZE IS SMALLER THAN EITHER THE PROPOSED LINE TO BE CONNECTED, OR (IF APPLICABLE) THE EXISTING LINE SIZE SHOWN ON THE DESIGN PLANS.
10. PROPOSED SANITARY SEWER PIPING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECTION 33 31 13.
11. SEWER SYSTEM INSTALLATION SHALL BEGIN AT THE CONNECTION TO THE EXISTING SYSTEM & SHALL PROCEED UPSTREAM.
12. CONFIRM EXISTING SEWER TIE-IN (LOCATION, SIZE, AND ELEVATION) IN FIELD PRIOR TO CONSTRUCTION.
13. CONFIRM THE ELEVATION DIFFERENCE BETWEEN THE PLUMBING DRAWINGS AND THE SEWER TIE-IN LOCATION IS ADEQUATE TO PROVIDE THE MINIMUM SLOPES SHOWN ON THIS SHEET PRIOR TO CONSTRUCTION. NOTIFY BOTH TRADES IMMEDIATELY OF ANY DISCREPANCIES.
14. CONTRACTOR SHALL COORDINATE BORING ACROSS LA-18 HIGHWAY AND WATER MAIN EXTENSION WITH ST. CHARLES PARISH WATERWORKS. DO NOT COMMENCE WORK UNTIL A UTILITY PERMIT THROUGH LADOTD HAS BEEN ISSUED.
15. CONTRACTOR SHALL VERIFY AND COORDINATE THE ELEVATIONS OF ROOF DRAIN AND WATER LINES TO THE MECHANICAL PAD TO PREVENT CROSSING CONFLICTS.
16. WATER LINES SHALL BE INSTALLED BELOW NEW DRAINAGE PIPE. COORDINATE ELEVATIONS PRIOR TO CONSTRUCTION.



1 STORM DRAINAGE & UTILITY LAYOUT
Scale: 1" = 20'

0 20' 40'

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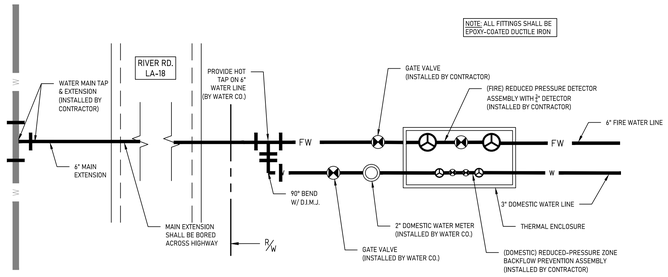
PROJECT NO: 4024101

STORM DRAINAGE & UTILITY LAYOUT

SHEET NUMBER
C501



2 WATER CONNECTION DETAIL
NOT TO SCALE

UTILITY CONTACTS		
UTILITY	COMPANY	CONTACT
ELECTRICITY	ENTERGY	STEPHEN MIRAMBELL (504-840-2519)
WATER	ST. CHARLES PARISH	SEAN LEWIS (985-783-5110) seanl@scpwater.org
SEWER	ST. CHARLES PARISH	DAVID DEGENERES (985-783-5102) ddeddegeneres@stcharlesgov.net
COMMUN-ICATIONS	AT&T	AL FLORES (504-437-6549) af178x@att.com

STORM DRAINAGE & UTILITY LEGEND

PROPOSED CONTOUR	14
EXISTING CONTOUR	13
RIDGE LINE	
DIRECTION OF OVERLAND FLOW	
STORM DRAINAGE PIPE	
SWALE	
ROOF DRAIN LEADERS	
PRECAST DRAINAGE STRUCTURES	
POLYMER YARD DRAINS	
FLARED END	
HEADWALL	
REQUIRED CLEANOUT	C.O.
RIP RAP PAD	
KEYED NOTE	#
DRAINAGE STRUCTURE CALLOUT	#
EXISTING WATER LINE	W
EXISTING SANITARY SEWER LINE	SS
EXISTING OVERHEAD POWER LINE	P
DUCTILE IRON MECHANICAL JOINT	D.I.M.J.
DOWNSPOUT CONNECTIONS	D.S.
DOMESTIC WATER LINE	W
FIRE WATER LINE	FW
RESTRAINED JOINTS	
SANITARY SEWER LINE	SS

GENERAL NOTES:

1. INFORMATION DEPICTING THE EXISTING CONDITIONS HEREON WAS TAKEN FROM "A BOUNDARY & TOPOGRAPHIC SURVEY OF SAINT CHARLES BRANCH LIBRARY, TRACT C2-A, JAMES P. VITAL ESTATE,, HAHNVILLE, PARISH OF SAINT CHARLES, LOUISIANA " BY BFM CORPORATION, LLC, DATED 1/19/25, FOX-NESBIT ENGINEERING, LLC HAS NOT FIELD-VERIFIED THE ITEMS IDENTIFIED ON THIS SURVEY.
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM), FIRM PANEL ID: 22089D0125C HAVING AN EFFECTIVE DATE OF 06/16/92, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" - AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE. FLOOD ZONE INFORMATION SHALL BE CONFIRMED WITH ST. CHARLES PARISH.
3. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION TO HAVE THEIR UTILITIES LOCATED IN THE FIELD. CONTRACTOR SHALL MAKE REQUEST THROUGH LOUISIANA ONE CALL (811).

STORM DRAINAGE NOTES:

1. ALL DRAINAGE PIPES, STRUCTURES, AND FITTINGS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECTION 33 42 00.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDINGS AT ALL TIMES.
3. PROPOSED DRAINAGE SYSTEMS SHALL BE CONSTRUCTED BEGINNING AT THE OUTFALL POINT AND PROCEEDING UPSTREAM.
4. ALL GEOTEXTILE FABRIC SHALL BE CLASS 'D' UNLESS OTHERWISE SPECIFIED.
5. WHERE 'SDP' IS INDICATED, PIPE MATERIAL SHALL BE PLASTIC OR CONCRETE IN ACCORDANCE WITH SPECIFICATION SECTION 33 42 00.
6. ALL ROOF DRAIN LEADERS SHALL BE 8" SDP @ 1.00% SLOPE (MIN.), UNLESS OTHERWISE NOTED.
7. VERIFY ALL INTERNAL ROOF DRAIN LEADER CONNECTIONS TO BUILDING WITH MEP PLANS.
8. PROVIDE INLET PROTECTION FOR ALL INLETS THROUGHOUT CONSTRUCTION.
9. PROVIDE 4" THICK CONCRETE PAD W/ WWM9 - 1.4X1.4 WWF PLACED MID-DEPTH, PAD SHALL BE 4' (L), AND SHALL MATCH THE WIDTH OF THE CONTROL STRUCTURE, WITH BLOCK-OUT AS NECESSARY TO PERMIT TRASH RACK REMOVAL.
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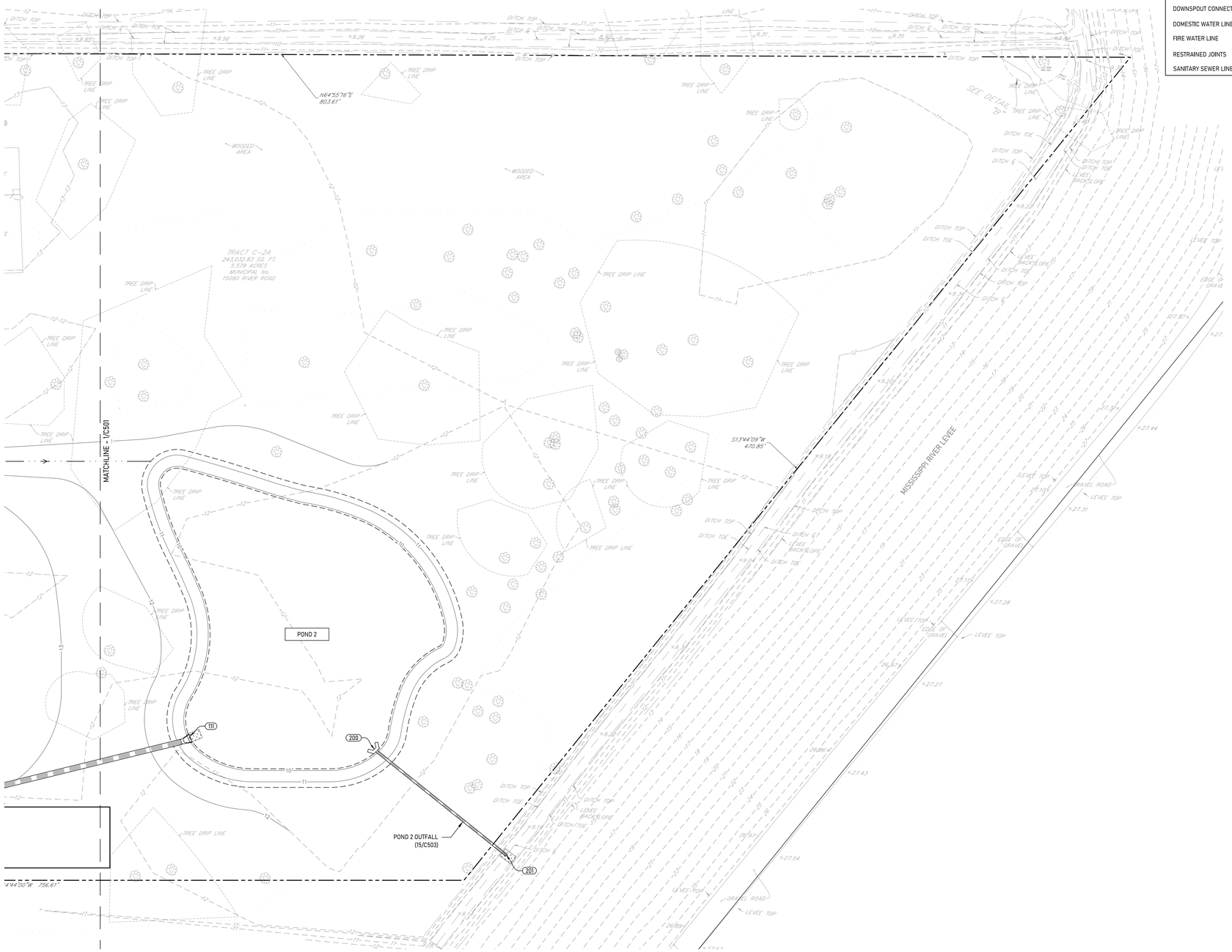

1 STORM DRAINAGE & UTILITY LAYOUT
Scale: 1" = 20'

STORM DRAINAGE & UTILITY KEYED NOTES

1	EXISTING UTILITY POLE
2	EXISTING OVERHEAD ELECTRIC LINE
3	EXISTING 10" WATER MAIN (SEE UTILITY NOTE 1)
4	EXISTING 4" GAS MAIN
5	EXISTING 6" SANITARY SEWER MAIN
6	3" SANITARY SEWER
7	4" SANITARY SEWER
8	T-WYE
9	45° BEND
10	CONNECT TO EXISTING SANITARY MAIN W/ WYE
11	6" WATER LINE
12	6" FIRE WATER LINE
13	4" FIRE WATER LINE
14	4" DOMESTIC WATER LINE
15	TEE W/ D.I.M.J.
16	BEND W/ D.I.M.J.
17	6" x 4" REDUCER W/ D.I.M.J.
18	NEW FIRE HYDRANT
19	BACKFLOW PREVENTERS (2/C502)
20	TAP EXISTING WATER MAIN
21	2 LB RIPRAP OVER GEOTEXTILE FABRIC
22	WATER SUPPLY TO MECHANICAL PAD (SEE M.E.P. PLANS)
23	MECHANICAL PAD (18/C300)

0 20' 40'

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STORM DRAINAGE & UTILITY LAYOUT

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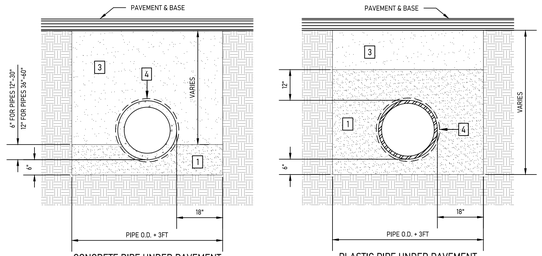
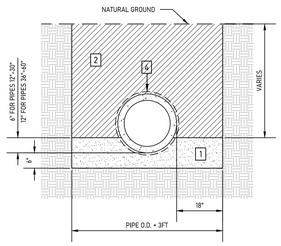
C502

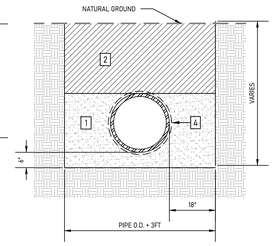


CONCRETE PIPE UNDER PAVEMENT

PLASTIC PIPE UNDER PAVEMENT



CONCRETE PIPE UNDER GRASS

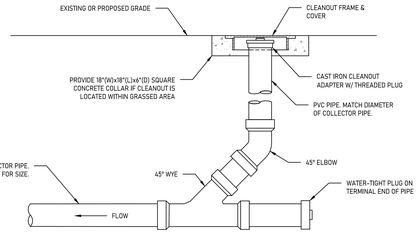


PLASTIC PIPE UNDER GRASS

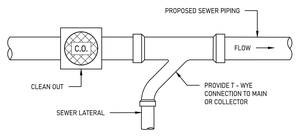
DRAINAGE BEDDING LEGEND

1. BEDDING MATERIAL COMPACTED TO 95% OF STANDARD PROCTOR DENSITY
2. BACKFILL MATERIAL COMPACTED TO MATCH OR EXCEED DENSITY OF SURROUNDING UNDISTURBED SOIL
3. BACKFILL SAND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY
4. GEOTEXTILE FABRIC AT ALL JOINTS (24" MIN.)

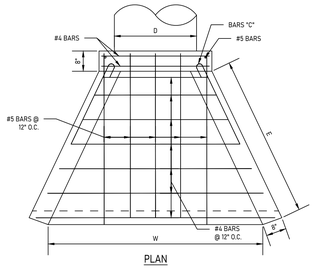
1 DRAINAGE PIPE BEDDING DETAILS
NOT TO SCALE



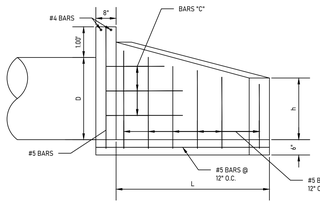
6 CLEANOUT DETAIL
NOT TO SCALE



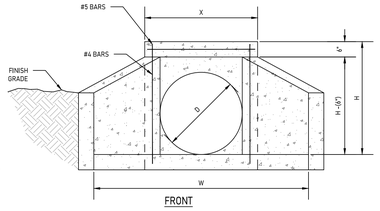
12 SEWER LINE CONNECTION
NOT TO SCALE



PLAN



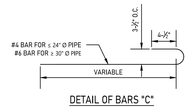
SECTION ON CENTERLINE



FRONT

TABLE OF DIMENSIONS						
D	W	X	H	h	L	E
12"	4'-2 1/2"	2'-4 1/2"	2'-0"	0'-10"	2'-9 1/4"	2'-10"

*ADJUST DIMENSIONS AS REQUIRED FOR EQUIV. RCPA



DETAIL OF BARS "C"

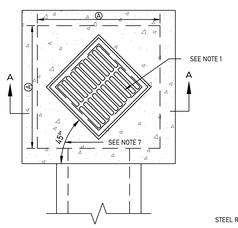
13 CONCRETE HEADWALL
NOT TO SCALE

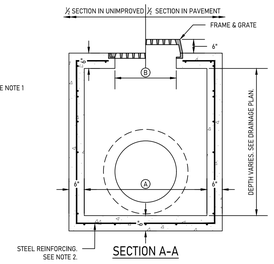
PRECAST DRAINAGE STRUCTURE NOTES:

1. DRAINAGE STRUCTURE LIDS SHALL CONSIST OF THE FOLLOWING:
   - 1.1. DROP INLETS: SLOTTED OPENINGS WITH AT LEAST 50% OPEN AREA.
   - 1.2. MANHOLES: ROUND, SOLID, WITH "DRAIN" OR SIMILAR LETTERING.
2. STEEL REINFORCING SHALL CONSIST OF THE FOLLOWING:
   - 2.1. WALLS: #5 BARS @ 12" O.C. (VERTICAL), #3 BARS @ 12" O.C. (HORIZONTAL)
   - 2.2. TOP & BOTTOM: #5 BARS @ 12 O.C. EACH WAY
3. ALL REINFORCING STEEL SHALL BE DEFORMED GRADE 60 (MINIMUM) REBAR.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000PSI @ 28 DAYS (MINIMUM).
5. PIPE OPENINGS SHALL BE O.D. OF PIPE + 4"x4".
6. ALL PIPE ENDS SHALL BE SET FLUSH WITH INTERIOR WALL FACE. PIPE ANNULAR SPACE IS TO BE GROUTED WITH NON-SHRINK GROUT AFTER INSTALLATION. GROUT INTERIOR BOTTOM OF STRUCTURE TO MATCH PIPE INVERTS.
7. ANGLE SHALL BE 90° WHERE SO DEPICTED ON STORM DRAINAGE PLAN.

DIMENSION KEY

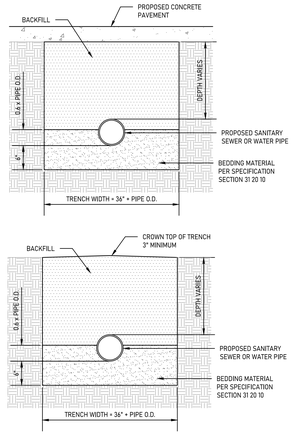
- (A) AS REQ'D TO ACCOMODATE FRAME & CONNECTING PIPES
- (B) 2'-0" FOR 2x2 DI
  2'-0" (ROUND) FOR STORM MANHOLE



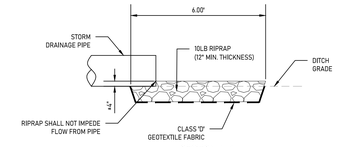


SECTION A-A

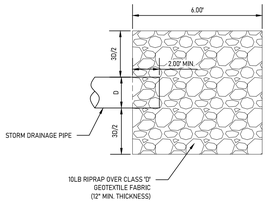
2 PRECAST DRAINAGE STRUCTURE
NOT TO SCALE



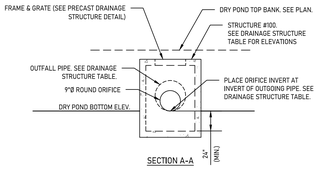
3 UTILITY PIPE BEDDING DETAILS
NOT TO SCALE



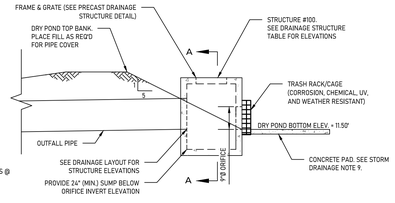
SECTION A-A



7 RIPRAP PAD DETAIL
NOT TO SCALE



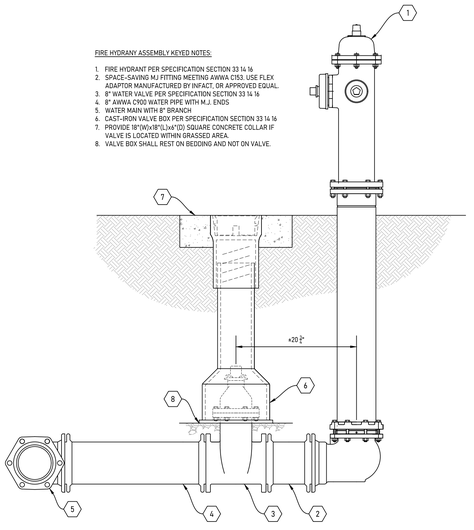
SECTION A-A



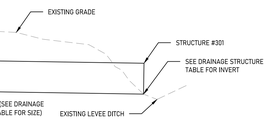
14 OUTFALL CONTROL STRUCTURE - POND 1
NOT TO SCALE

FIRE HYDRANT ASSEMBLY KEYED NOTES:

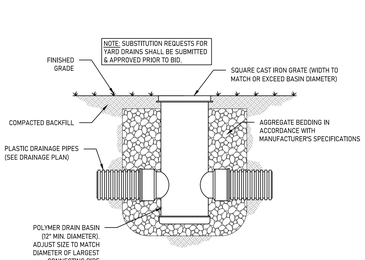
1. FIRE HYDRANT PER SPECIFICATION SECTION 33 14 16
2. SPACE-SAVING MJ FITTING MEETING AWWA C153. USE FLEX ADAPTOR MANUFACTURED BY INFACT, OR APPROVED EQUAL.
3. 8" WATER VALVE PER SPECIFICATION SECTION 33 14 16
4. 8" AWWA C900 WATER PIPE WITH MJ ENDS
5. WATER MAIN WITH 8" BRANCH
6. CAST-IRON VALVE BOX PER SPECIFICATION SECTION 33 14 16
7. PROVIDE 18"(W)x18"(L)x4"(D) SQUARE CONCRETE COLLAR IF VALVE IS LOCATED WITHIN GRASSED AREA.
8. VALVE BOX SHALL REST ON BEDDING AND NOT ON VALVE.



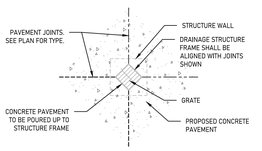
8 FIRE HYDRANT ASSEMBLY
NOT TO SCALE



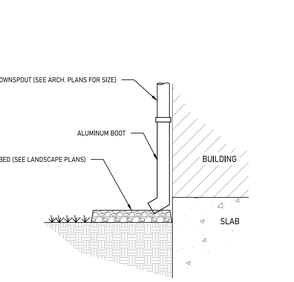
15 OUTFALL STRUCTURE - POND 2
NOT TO SCALE



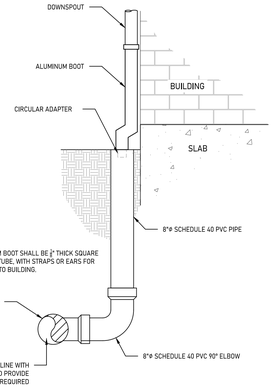
4 YARD DRAIN
NOT TO SCALE



9 DRAINAGE STRUCTURE IN PAVEMENT
NOT TO SCALE

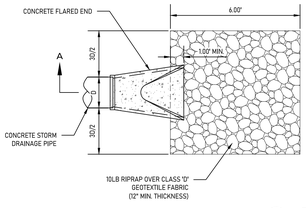


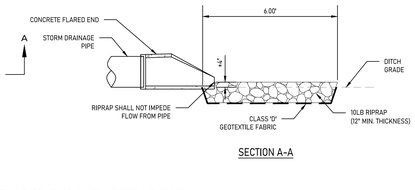
5 DOWNSPOUT DISCHARGE AT GRADE
NOT TO SCALE



NOTE:
1. ALUMINUM BOOT SHALL BE ¼" THICK SQUARE ALUMINUM TUBE, WITH STRAPS OR EARS FOR ATTACHING TO BUILDING.

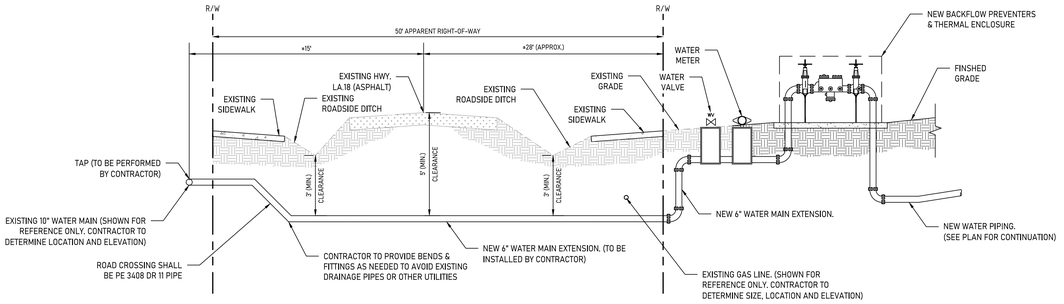
10 DOWNSPOUT CONNECTION DETAIL
NOT TO SCALE





SECTION A-A

11 FLARED END WITH RIPRAP PAD
NOT TO SCALE



16 WATER LINE CROSSING SECTION (LA HWY. 18)
NOT TO SCALE

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STORM DRAINAGE & UTILITY DETAILS

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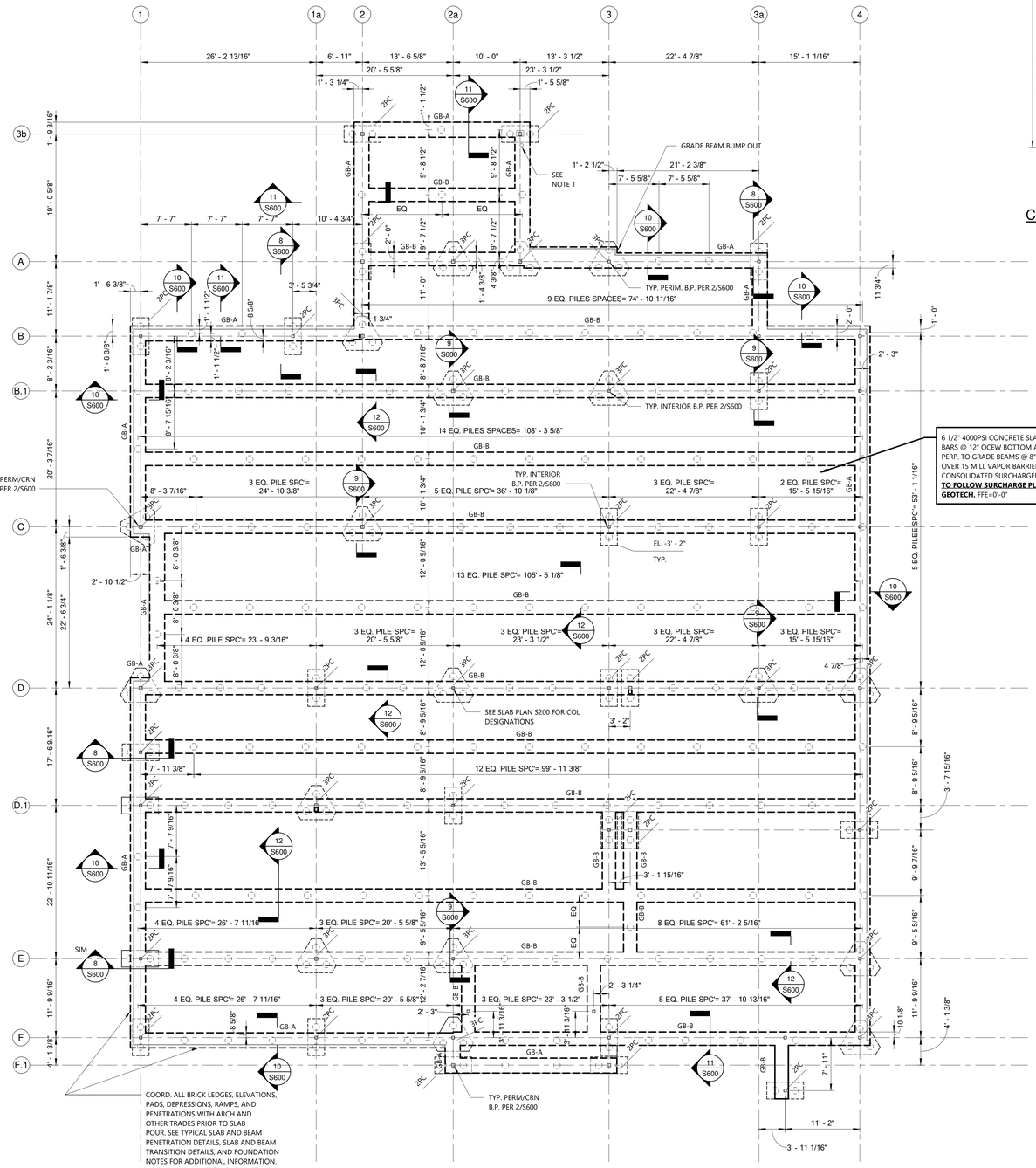
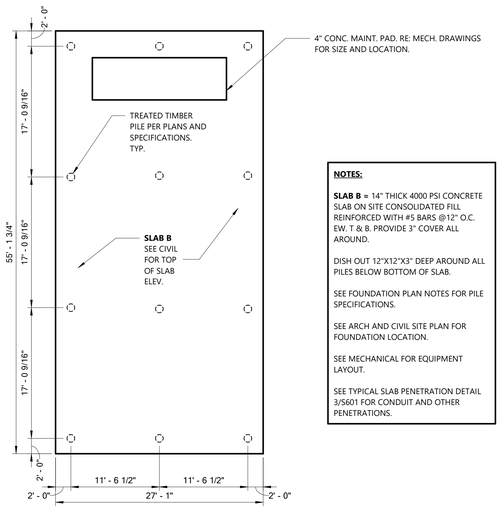
GRADE BEAM SCHEDULE					
Mark	Width	Depth	Top Bars	Bottom Bars	Ties
GB-A	2' - 3"	2' - 6"	(3)#6	(3)#6	#3 TIES AT 12" O.C. MAX
GB-B	2' - 0"	2' - 6"	(3)#6	(3)#6	#3 TIES AT 14" O.C. MAX



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



CHILLER/GENERATOR FOUNDATION

NOTES:

SLAB B = 14" THICK 4000 PSI CONCRETE SLAB ON SITE CONSOLIDATED FILL REINFORCED WITH #5 BARS @12" O.C. E.W. T & B. PROVIDE 3" COVER ALL AROUND.

DISH OUT 12"X12"X3" DEEP AROUND ALL PILES BELOW BOTTOM OF SLAB.

SEE FOUNDATION PLAN NOTES FOR PILE SPECIFICATIONS.

SEE ARCH AND CIVIL SITE PLAN FOR FOUNDATION LOCATION.

SEE MECHANICAL FOR EQUIPMENT LAYOUT.

SEE TYPICAL SLAB PENETRATION DETAIL 3/S601 FOR CONDUIT AND OTHER PENETRATIONS.

2 Monumental Sign Foundation Details
3/4" = 1'-0"

FOUNDATION PLAN NOTES AND LEGEND:

THE TOP OF ALL GRADE BEAMS AND PEDESTALS SHALL BE AT EL. -0'-9 1/2", UNLESS NOTED OTHERWISE.

THE TOP OF ALL INTERIOR, ISOLATED FOOTINGS/PILE CAPS SHALL BE AT EL. -3'-3 1/2", UNLESS NOTED OTHERWISE.

THE TOP OF ALL FOOTINGS/PILE CAPS SHOWN UNDERNEATH GRADE BEAMS OR PEDESTALS SHALL BE AT EL. -3'-3 1/2", UNLESS NOTED OTHERWISE.

THE CENTER OF GRAVITY OF ALL PILE CAPS IS AT THE INTERSECTION OF COLUMN GRIDLINES OR CENTERED ON GRADE BEAM IF NO COLUMN IS PRESENT, UNLESS NOTED OTHERWISE.

ALL PILES UNDERNEATH GRADE BEAM SHALL BE CENTERED ON GRADE BEAMS, UNLESS NOTED OTHERWISE.

PROVIDE #5 L-BAR (a=10", b= 26") DOWELS AT 24" O.C. ALONG TOP OF ALL GRADE BEAMS, SEE FOUNDATIONS DETAILS. FOR SEGMENTS OF GRADE BEAM BETWEEN BRACED FRAME COLUMNS, DECREASE DOWEL SPACING TO 12" O.C. SET TOP OF DOWEL BAR AT BOTTOM OF SLAB REINF.

ALL GRADE BEAMS SHALL BE PLACED OVER A 2" THICK CONCRETE DRY BOTTOM AS DEEMED APPROPRIATE BY THE CONTRACTOR IF A PRECIPITATION EVENT IS ANTICIPATED BEFORE CONCRETE PLACEMENT. EXPOSED FOOTING AND GRADE BEAM BOTTOMS THAT DO NOT CONTAIN DRY BOTTOMS SHALL NOT BE SUBJECTED TO A PRECIPITATION EVENT PRIOR TO PLACING CONCRETE. DO NOT PLACE DRY BOTTOM CONCRETE OVER PILES.

G.B.T. = DEPTH AND WIDTH GRADE BEAM TRANSITION PER DETAIL 2/S601.

SEE GENERAL NOTES FOR FORMING REQUIREMENTS OF FOUNDATION ELEMENTS.

PROVIDE 2 PROBE PILES AT LOCATIONS INDICATED ON THE PLANS OR AS DIRECTED BY EOR. INSTALL USING SAME TECHNIQUES AND EQUIPMENT AS PRODUCTION PILES. A STATIC LOAD TEST WILL BE PERFORMED ON ONE OF THE PROBE PILES IN ACCORDANCE WITH ASTM D1143. TESTING SHALL BE PERFORMED A MINIMUM OF FOURTEEN (14) DAYS AFTER PROBE PILE INSTALLATION. SUBMIT STATIC TEST PILE RESULTS TO ARCHITECT/ENGINEER FOR REVIEW. PRODUCTION PILES MAY NOT BE DRIVEN UNTIL THREE (3) DAYS AFTER RECEIPT OF CERTIFIED TEST RESULTS BY ARCHITECT/ENGINEER, PENDING VERIFICATION OF DESIGN CAPACITY. SEE SPECIFICATIONS FOR MORE INFORMATION. PROBE PILES SHALL NOT BE PRODUCTION PILES.

A SURCHARGE PROGRAM IS REQUIRED FOR THIS SITE AND SHALL BE IMPLEMENTED AND CONFIRMED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

PILE INFORMATION:
- ASTM D25 CLASS B TREATED TIMBER PILE. (12" MIN. BUTT MEASURED 3' FROM BUTT END, 7" TIP). LENGTH= 65'
CAPACITY=12 TONS
LOAD TEST REQUIRED

ALTERNATE:
- TIMBER COMPOSITE PILE: 45' LONG TREATED CLASS B "LOWER" SECTION AND 20' LONG CORRUGATED 3000 PSI CONCRETE FILLED CAN UPPER SECTION.
CAPACITY=12 TONS
LOAD TEST REQUIRED

NOTE 1 - PROVIDE VERTICAL G90 GALVANIZED SCHEDULE 40 PIPE SLEEVE WRAPPED WITH 1/4" DECK-O-FOAM EXPANSION JOINT FILLER BY WR MEADOWS OR APPROVED EQUAL AT DOWN SPOUT LOCATION IN GRADE BEAM. COORDINATE PIPE DIAM. WITH PLUMBING (MAX 6"). DOWNSPOUT MUST BE OFFSET FROM COLUMN BASE PLATE. COORDINATE WITH RESTEEL AND PILES DURING PLACEMENT. INSTALL IN MIDDLE THIRD OF GRADE BEAM WIDTH.

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FOUNDATION PLAN

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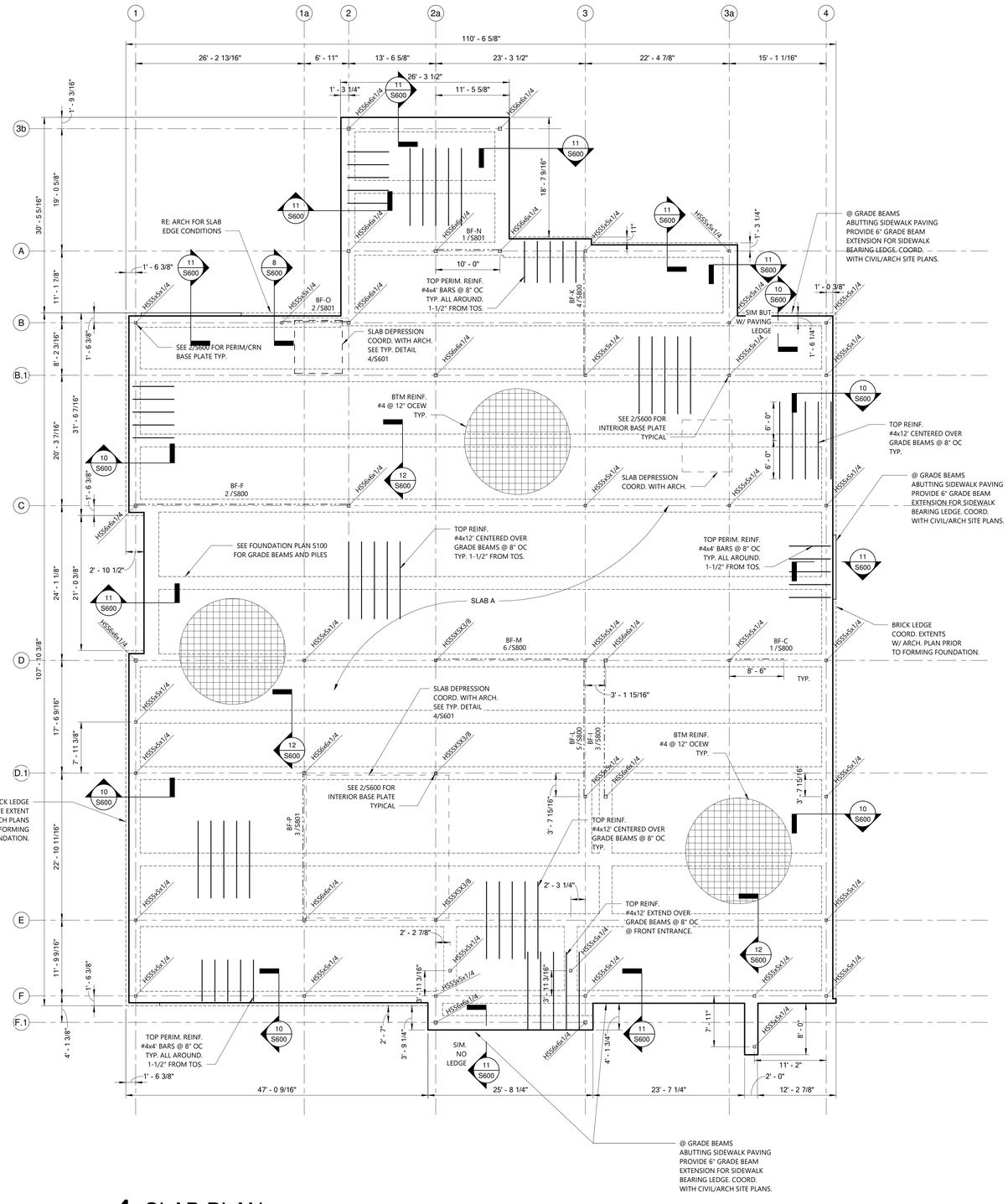

1 SLAB PLAN

1/8" = 1'-0"

SLAB PLAN NOTES AND LEGEND:

SLAB A = 6 1/2" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON SITE CONSOLIDATED SURCHARGED FILL VIA SURCHARGE PROGRAM. REINFORCE WITH #4 BARS @ 12" OCEW BOTTOM AND #4x12' BARS PERP. TO GRADE BEAMS @ 8" OC TOP TYP. AND #4x4' AT PERIMETER GRADE BEAMS. USE CONCRETE BLOCKS OR STEEL SAND CHAIRS AT MAX 48" OC IN EACH DIRECTION TO MAINTAIN REQUIRED COVER.

CORNER BARS = PROVIDE (3)-#4 BARS 5'-0" LONG CENTERED IN SLAB AT ALL RE-ENTRANT (INSIDE) CORNERS OF SLAB.

SEE DETAIL 3/S601 FOR ADDITIONAL REINFORCEMENT AT SLAB OPENINGS.

SLOPE SLAB AT ALL FLOOR DRAINS (NOT SHOWN) . RE: MECHANICAL/PLUMBING DRAWINGS FOR LOCATIONS OF FLOOR DRAINS. SEE GENERAL NOTES FOR MORE INFORMATION.

SLAB BLOCKOUT MAY BE USED AT COLUMNS AT CONTRACTOR'S OPTION. EDGE/CORNER COLUMN BLOCKOUT SHAPE SHALL BE RECTANGULAR AND INTERIOR COLUMN BLOCKOUT SHAPE SHALL BE CIRCULAR. EXACT SIZE AND SHAPE SHALL BE APPROVED BY STRUCTURAL ENGINEER. PROVIDE A SUBMITTAL TO ENGINEER FOR REVIEW AND APPROVAL. ALL SLAB REINFORCEMENT SHALL EXTEND CONTINUOUS THROUGH THE BLOCKOUTS AND ADDITIONAL #5 x 6'-0" LONG BARS SHALL BE PROVIDED ALONG ALL EDGES OF BLOCKOUT, UNLESS NOTED OTHERWISE. INCREASE SIZE OF BLOCKOUT AT DIAGONAL BRACE LOCATIONS TO ENSURE BRACE CAN BE ERECTED AND WELDS CAN BE MADE AT BRACE ATTACHMENT TO COLUMN WITHOUT REMOVAL OF SLAB.

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SLAB PLAN

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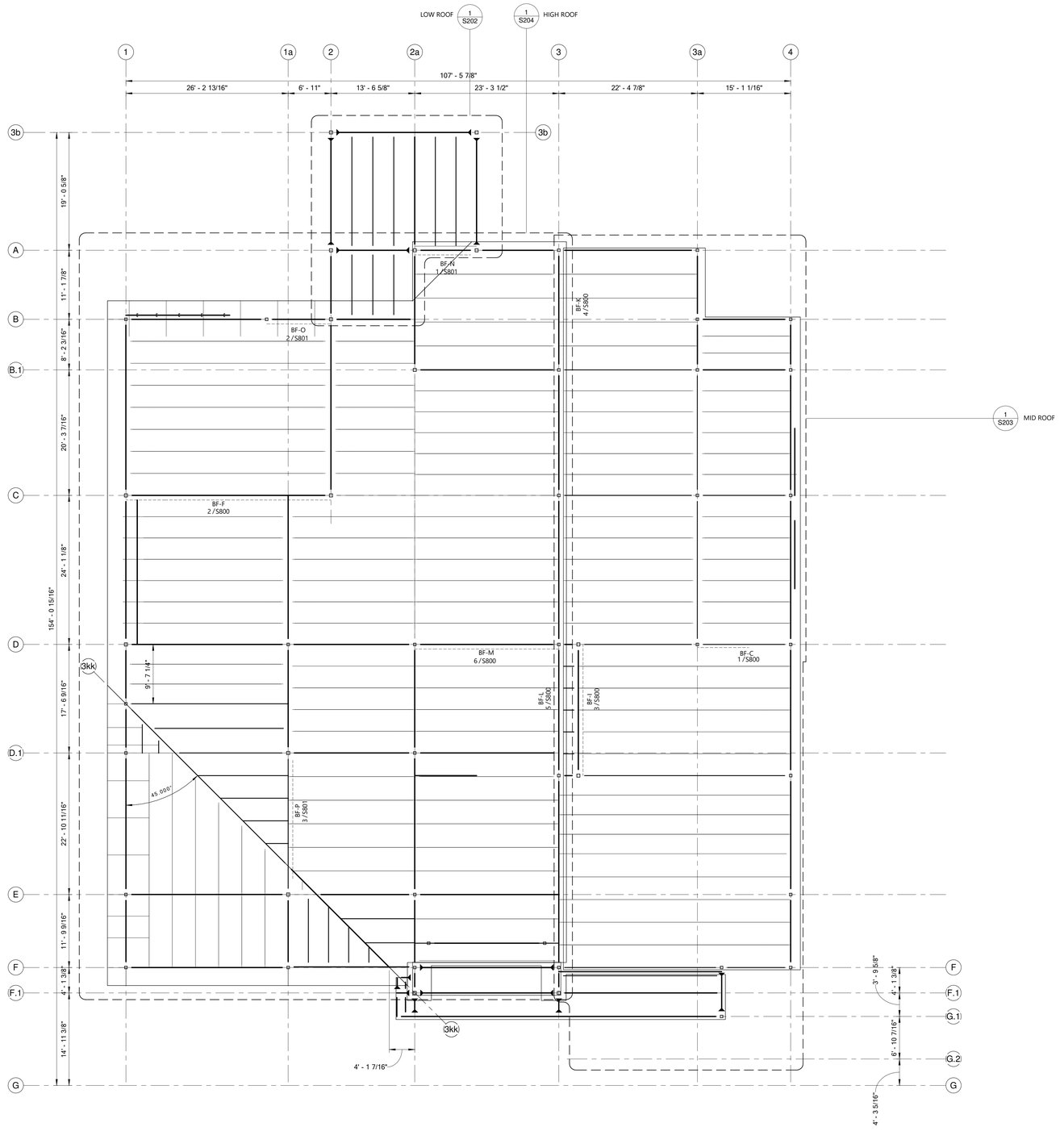

1 OVERALL ROOF PLAN

1/8" = 1'-0"

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OVERALL ROOF FRAMING PLAN

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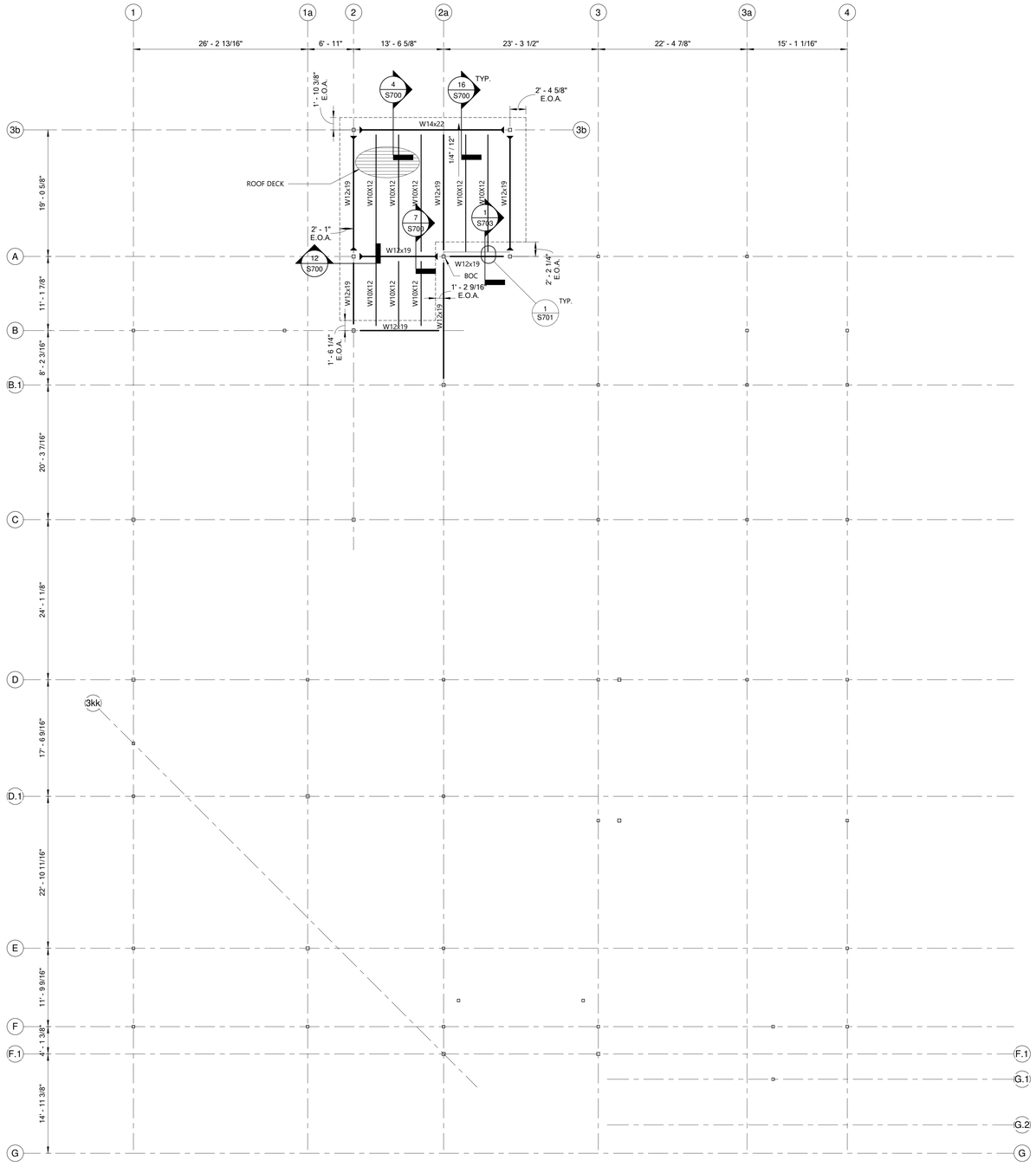

1 CANOPY AND LOW ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.5B 22 GAGE GALV. METAL ROOF DECK.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAIL 3/S701 FOR MORE INFORMATION.

ROOF JOISTS SHALL BE EQUALLY SPACED IN FRAMING BAYS - UNLESS NOTED OTHERWISE. SEE DETAIL 10/S701 FOR REQUIRED STAGGERING OF JOISTS.

SEE DETAILS 7/S702 FOR TYPICAL REQUIREMENTS AT ROOF PENETRATIONS.

ALL OVERFLOW DRAINS ON ROOF SHALL BE SET MAX TWO INCHES ABOVE PRIMARY DRAINS.

[A] = PROVIDE HSS COLLECTORS MEMBERS PER 8 & 9/S701 ON TOP OF BEAM BETWEEN JOISTS AT BEAM INDICATED.

[H] = HSS4x4x5/16 HANGER COLUMN SPACED @ 6' O.C. UON ON PLAN OR DETAILS WITH L3x3x1/4" KICKER BRACE SUPPORTING SPANDREL BEAM BELOW. SEE DETAIL 8/S702. UON PROVIDE HSS 6x6x3/8" SPANDREL BEAM BELOW TO WINDOW, DOOR, HEADER BELOW. CONNECT HSS TO HSS WITH 1/4" FILLET ALL AROUND.

[B] = HSS 6X6X3/8" DOWN HEADER WITH L4X4X1/4" KICKERS TO JOIST OR BEAMS TYP.

INDICATES MOMENT CONNECTION.

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CANOPY AND LOW ROOF FRAMING PLAN

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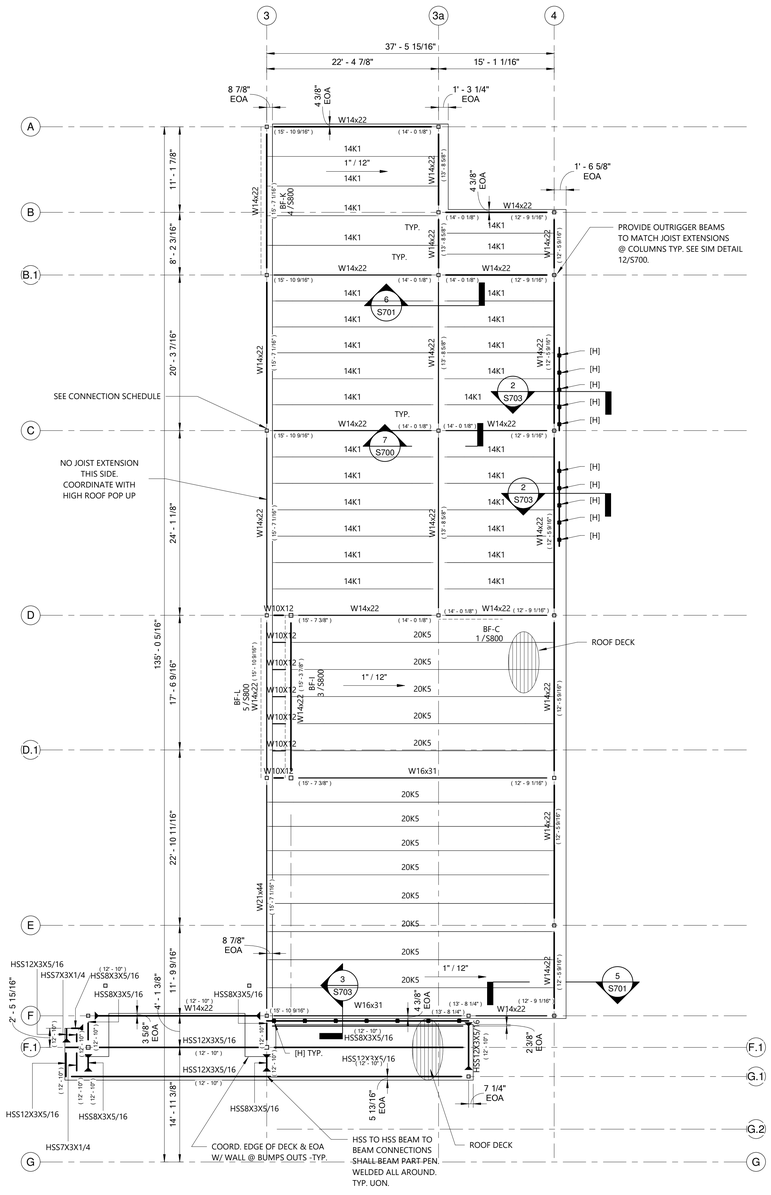

1 MID ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.5B 22 GAGE GALV. METAL ROOF DECK.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAIL 3/S701 FOR MORE INFORMATION.

ROOF JOISTS SHALL BE EQUALLY SPACED IN FRAMING BAYS - UNLESS NOTED OTHERWISE. SEE DETAIL 10/S701 FOR REQUIRED STAGGERING OF JOISTS.

SEE DETAILS 7/S702 FOR TYPICAL REQUIREMENTS AT ROOF PENETRATIONS.

ALL OVERFLOW DRAINS ON ROOF SHALL BE SET MAX TWO INCHES ABOVE PRIMARY DRAINS.

[A] = PROVIDE HSS COLLECTORS MEMBERS PER 8 & 9/S701 ON TOP OF BEAM BETWEEN JOISTS AT BEAM INDICATED.

[H] = HSS4x4x5/16 HANGER COLUMN SPACED @ 6' O.C. UON ON PLAN OR DETAILS WITH L3x3x1/4" KICKER BRACE SUPPORTING SPANDREL BEAM BELOW. SEE DETAIL 8/S702. UON PROVIDE HSS 6x6x3/8" SPANDREL BEAM BELOW TO WINDOW, DOOR, HEADER BELOW. CONNECT HSS TO HSS WITH 1/4" FILLET ALL AROUND.

[B] = HSS 6X6X3/8" DOWN HEADER WITH L4X4X1/4" KICKERS TO JOIST OR BEAMS TYP.

▶ INDICATES MOMENT CONNECTION.

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MID ROOF FRAMING PLAN

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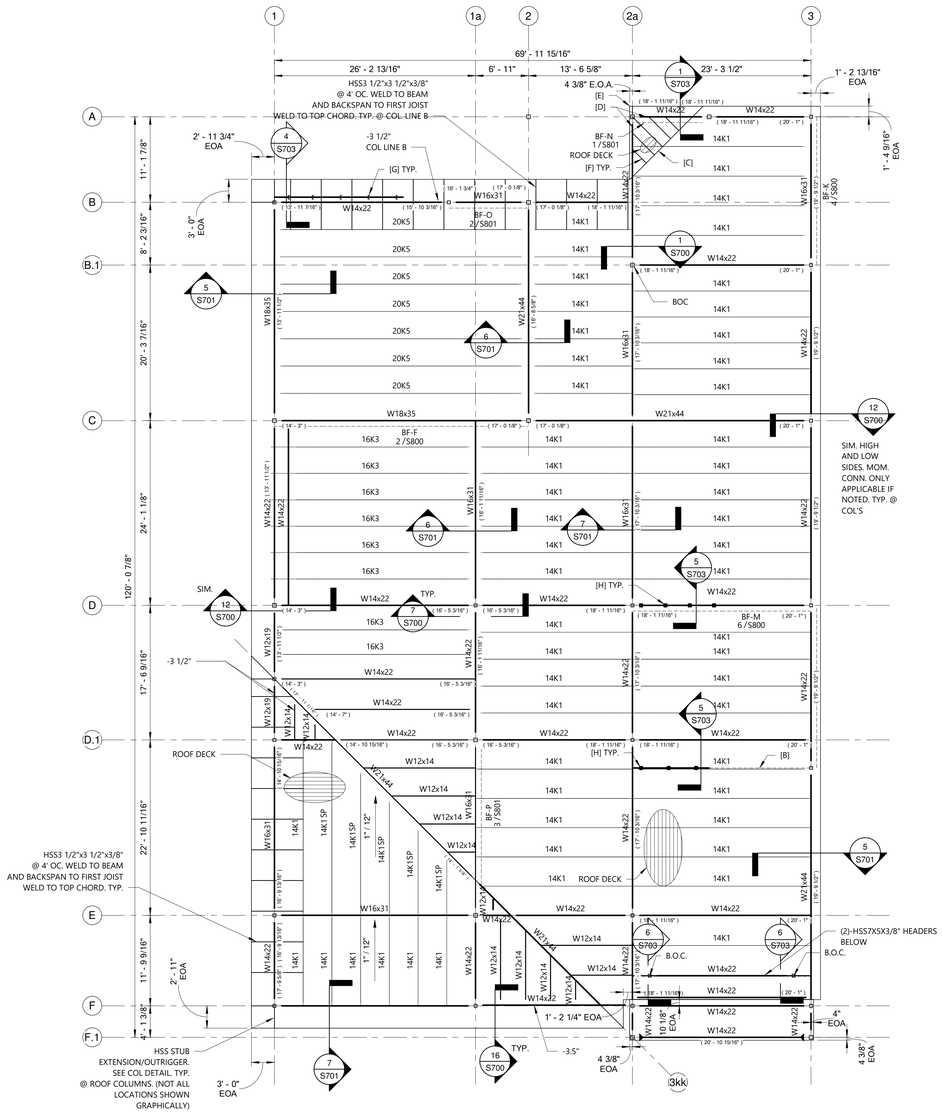

1 HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.5B 22 GAGE GALV. METAL ROOF DECK.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAIL 3/S701 FOR MORE INFORMATION.

ROOF JOISTS SHALL BE EQUALLY SPACED IN FRAMING BAYS - UNLESS NOTED OTHERWISE. SEE DETAIL 10/S701 FOR REQUIRED STAGGERING OF JOISTS.

SEE DETAILS 7/S702 FOR TYPICAL REQUIREMENTS AT ROOF PENETRATIONS.

ALL OVERFLOW DRAINS ON ROOF SHALL BE SET MAX TWO INCHES ABOVE PRIMARY DRAINS.

[H] = HSS4x4x1/4 HANGER COLUMN SPACED @ 6' O.C. UON ON PLANS AND DETAILS WITH L3x3x1/4" KICKER BRACE SUPPORTING BEAM BELOW. SEE DETAIL 8/S702. UON PROVIDE HSS 6x6x3/8" SPANDREL BEAM BELOW TO WINDOW, DOOR, HEADER BELOW. CONNECT HSS TO HSS WITH PART PEN WELD.

[B] = HSS 6X6X3/8" DOWN HEADER WITH L4X4X1/4" KICKERS TO JOIST TYP.

[C] = L4x4x1/4 1/4" FILLET WELD BOTH ENDS IN BETWEEN EACH JOIST/BEAM, AND TO END OF ANGLE. CUT TOP LEG OF ANGLE AND SET FLUSH WITH BEAM, JOIST, OR ANGLE, TYP.

[D] = L4x4x1/4 1/4" FILLET WELD BOTH ENDS. CUT TOP LEG OF ANGLE AND SET FLUSH TO BEAM, JOIST, OR ANGLE. TYP.

[E] = EDGE ANGLE SEE 3/S701 FOR TYPICAL EDGE ANGLE AT ROOF

[F] = L3x3x1/4 1/4" FILLET WELD BOTH ENDS. CUT TOP LEG OF ANGLE AND SET FLUSH TO ANGLE TYP.

[G] = C6x8.2 HANGER COLUMN SPACED @ 6' O.C. UON ON PLANS AND DETAILS WITH L3x3x1/4" KICKER BRACE SUPPORTING BEAM BELOW. SEE SIM. DETAIL 8/S702. UON PROVIDE HSS 6x6x3/8" SPANDREL BEAM BELOW TO WINDOW, DOOR, HEADER BELOW. CONNECT CHANNEL TO HSS WITH 1/4" FILLET WELD ALL AROUND.

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HIGH ROOF FRAMING PLAN

SHEET NUMBER
S204

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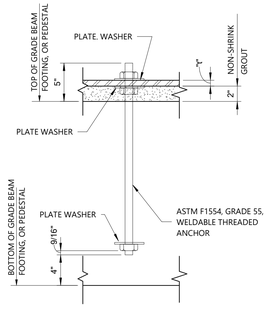
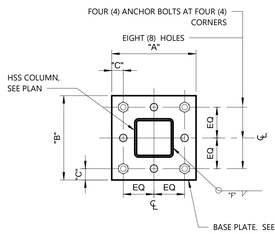


BOLT ASSEMBLY DETAIL

3 HEAVY HEX NUTS, 3 WASHERS, THREADED ANCHOR

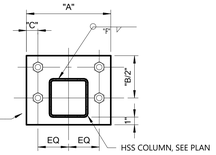
1 Typical Anchor Bolt

1 1/2" = 1'-0"



TYPICAL INTERIOR BASEPLATE

HSS COL. SIZE	"t"	"A"	"B"	"C"	BOLT DIA.	BASE PLATE HOLE DIA.	"F"	WASHER SIZE	WASHER HOLE DIA.
HSS 5x5	1"	11 1/2"	11 1/2"	1 1/2"	1"	1 1/4"	1/4	3"x3/8"	1 1/16"
HSS 6x6	1"	12 1/2"	12 1/2"	1 1/2"	1"	1 1/4"	1/4	3"x3/8"	1 1/16"



TYPICAL PERIMETER AND CORNER BASEPLATE

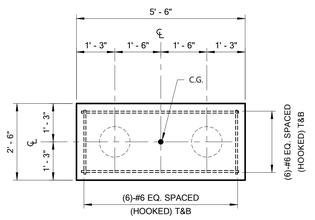
NOTE:

ALL PORTIONS OF BASE PLATE WHICH EXTEND BEYOND EXTERIOR EDGE OF BUILDING SLAB SHALL BE SHOP-COATED WITH 3 LAYERS OF A ZINC-RICH COLD-GALVANIZE COMPOUND.

ALL ANCHOR BOLTS, NUTS, AND WASHERS WHICH EXTEND BEYOND EXTERIOR EDGE OF BUILDING SLAB SHALL BE HOT-DIPPED GALVANIZED.

2 Column Base Plate Detail

1 1/2" = 1'-0"

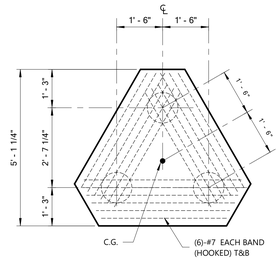


TWO PILE CAP

THICKNESS = 27"

3 2 Pile Cap Detail (2PC)

1/2" = 1'-0"



THREE PILE CAP

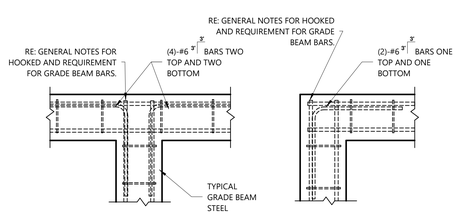
THICKNESS = 27"

4 3 Pile Cap Detail (3PC)

1/2" = 1'-0"

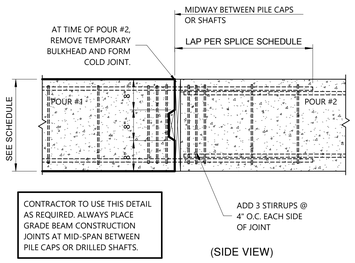
Keynote Legend

1	PILE CAP - SEE PLAN AND DETAILS FOR INFORMATION.
2	24"X30" PEDESTAL INTEGRAL WITH GRADE BEAM REINFORCED (6)#6 W/ STD HK TO BTM MAT & (4)#4 TIES, RUN GRADE BEAM REINF THROUGH PEDESTAL. ADJUST FOR ANCHOR BOLTS.
3	STEEL COLUMN - SEE PLAN FOR SIZE.
4	27"X30" PEDESTAL INTEGRAL WITH GRADE BEAM REINFORCED (6)#6 W/ STD HK TO BTM MAT & (4)#4 TIES, RUN GRADE BEAM REINF THROUGH PEDESTAL. ADJUST FOR ANCHOR BOLTS.
5	CONTINUE GRADE BEAM REINFORCEMENT THROUGH PEDESTAL.
6	PROVIDE 2" DRY BOTTOM CONCRETE UNDER ALL GRADE BEAMS AND SPREAD FOOTINGS. SEE FOUNDATION PLAN NOTES FOR MORE INFORMATION.
7	PROVIDE ADDITIONAL PEDESTAL TIE IN FOOTING FOR ALIGNMENT OF VERTICAL BARS.
8	SEE NOTE ON FOUNDATION PLAN FOR TYPICAL SLAB TO GRADE BEAM DOWELS.
9	6 1/2" THICK CONCRETE SLAB. SEE PLAN FOR MORE INFORMATION.
10	TIMBER PILE - SEE PLAN FOR INFORMATION.
11	PROVIDE #4 -L (A= 10", B=26") SLAB TO GRADE BEAMS DOWEL BARS AT 24" O.C. ALONG ALL GRADE BEAMS. STAGGER SIDE TO SIDE ON INTERIOR GRADE BEAM. REDUCE SPACING TO 12" AT GRADE BEAMS BETWEEN BRACED FRAMES.
12	GRADE BEAM - SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
13	15 MIL VAPOR BARRIER WITH LAPPED AND TAPPED JOINTS PER MANUF. SPECIFICATIONS, STEGO WRAP OR EQUAL.
14	#4X4' TOP PERIMETER BAR TYP. ALL AROUND. - SEE PLAN. NOTE ADDITIONAL PERP. BARS AT PERP. GRADE BEAMS, SEE PLAN.
15	#4@12" OCEW BOTTOM TYP. - SEE PLAN
16	#4X12" TOP CENTERED OVER GRADE BEAMS TYP. SEE PLAN.
17	PROVIDE A 3" DEEP X 24" LONG DISHOUT AT EACH PILE.



5 Grade Beam Intersection Details

3/4" = 1'-0"

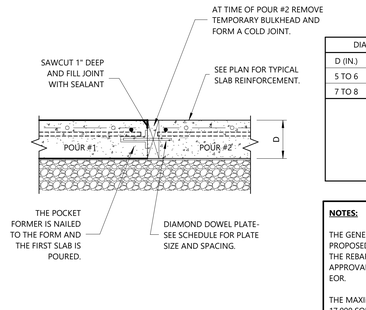


CONTRACTOR TO USE THIS DETAIL AS REQUIRED. ALWAYS PLACE GRADE BEAM CONSTRUCTION JOINTS AT MID-SPAN BETWEEN PILE CAPS OR DRILLED SHAFTS.

(SIDE VIEW)

6 Grade Beam Construction Joint

3/4" = 1'-0"



DIAMOND DOWEL LOAD PLATE SCHEDULE		
D (IN.)	PLATE DIMENSION (IN.)	PLATE SPACING (IN.)
5 TO 6	1/4"x4 1/2"x4 1/2"	18
7 TO 8	3/8"x4 1/2"x4 1/2"	18

PLAN VIEW OF PLATE

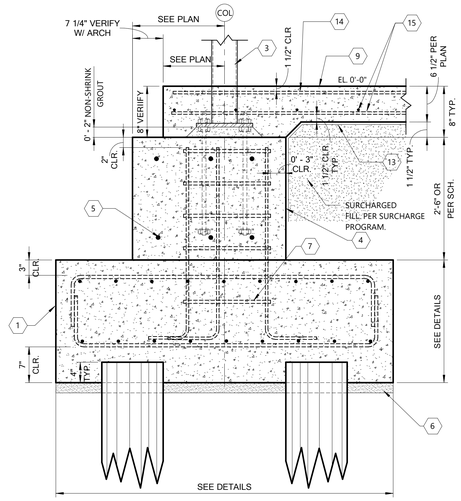
NOTES:

THE GENERAL CONTRACTOR SHALL SUBMIT A PLAN OF PROPOSED CONSTRUCTION JOINT LOCATIONS WITH THE REBAR SHOP DRAWINGS FOR REVIEW AND APPROVAL. LOCATIONS SHALL BE APPROVED BY THE EOR.

THE MAXIMUM AREA FOR A SLAB POUR SHALL BE 17,000 SQUARE FEET. THE MAXIMUM LENGTH TO WIDTH RATIO OF A SLAB POUR SHALL BE 3 TO 1.

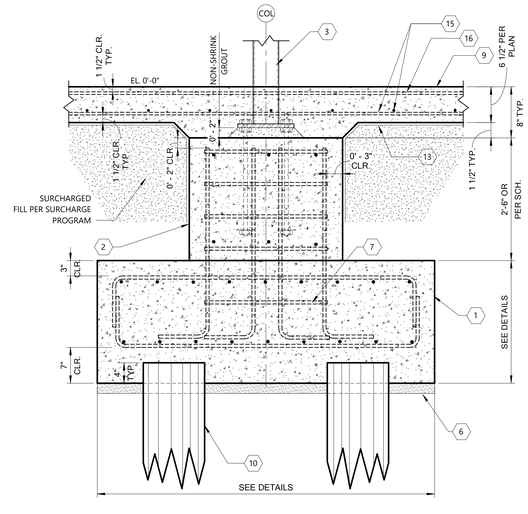
7 Slab Construction Joint1

1 1/2" = 1'-0"



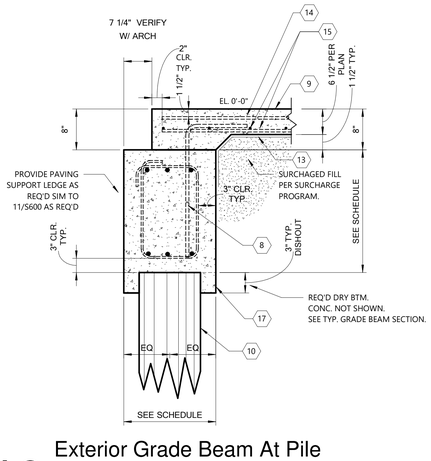
8 Section At Exterior Column (Showing Brick Ledge)

1" = 1'-0"



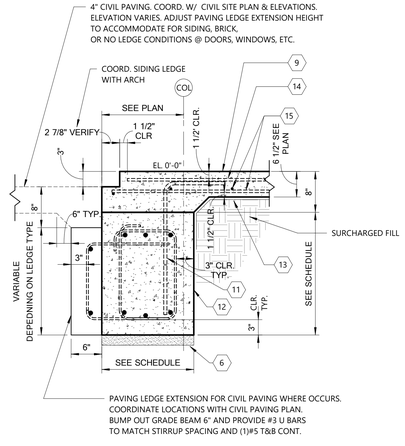
9 Section At Interior Pedestal

1" = 1'-0"



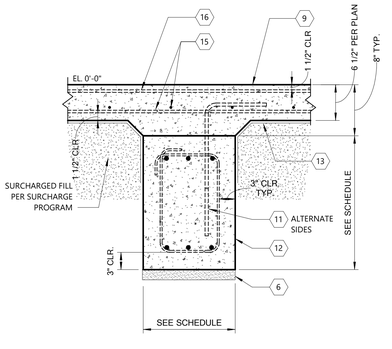
10 Exterior Grade Beam At Pile Showing Brick Ledge

1" = 1'-0"



11 Exterior Grade Beam Detail Showing Siding Ledge and Civil Paving Ledge Extension

1" = 1'-0"



12 Typical Interior Grade Beam Between Piles

1" = 1'-0"

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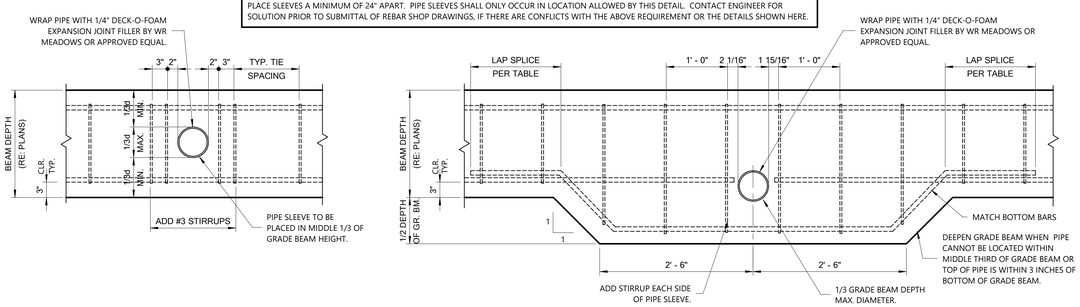
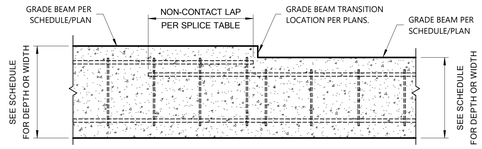
NOTE:

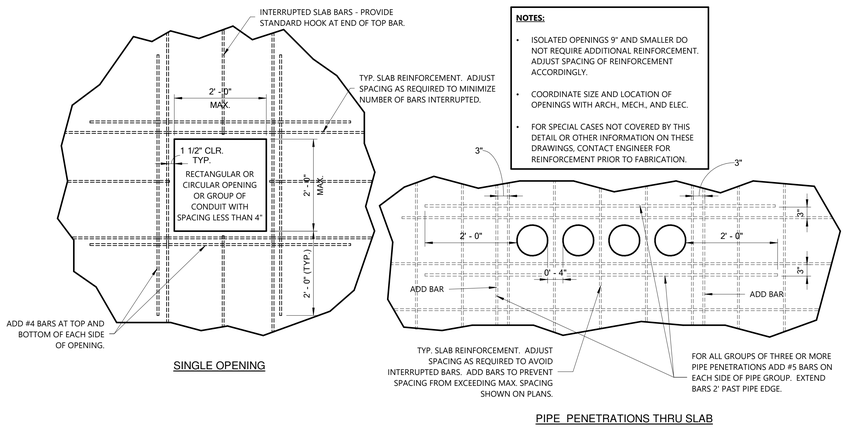
PLACE SLEEVES A MINIMUM OF 24" APART. PIPE SLEEVES SHALL ONLY OCCUR IN LOCATION ALLOWED BY THIS DETAIL. CONTACT ENGINEER FOR SOLUTION PRIOR TO SUBMITTAL OF REBAR SHOP DRAWINGS, IF THERE ARE CONFLICTS WITH THE ABOVE REQUIREMENT OR THE DETAILS SHOWN HERE.



1 Typical Sleeve Detail in Grade Beam
1" = 1'-0"



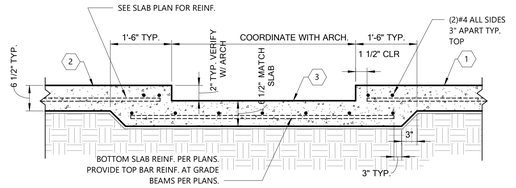
2 Grade Beam Transition Detail
3/4" = 1'-0"



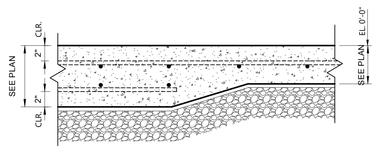
NOTES:

- ISOLATED OPENINGS 9" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT. ADJUST SPACING OF REINFORCEMENT ACCORDINGLY.
- COORDINATE SIZE AND LOCATION OF OPENINGS WITH ARCH., MECH., AND ELEC.
- FOR SPECIAL CASES NOT COVERED BY THIS DETAIL OR OTHER INFORMATION ON THESE DRAWINGS, CONTACT ENGINEER FOR REINFORCEMENT PRIOR TO FABRICATION.

3 Typical Openings In Concrete Slab
3/4" = 1'-0"



4 Isolated Slab Recess
1" = 1'-0"



5 Thickened Slab Detail
1 1/2" = 1'-0"

Keynote Legend

1	CONCRETE SLAB SLAB-ON-GRADE. SEE SLAB PLAN FOR MORE INFORMATION.
2	6 1/2" THICK CONCRETE SLAB. SEE PLAN FOR MORE INFORMATION.
3	REINFORCE RECESSED SLAB. MATCH SLAB REINFORCING. LAP BARS MIN. 12".

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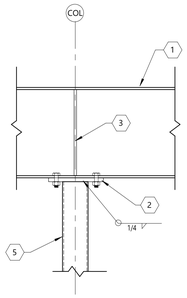
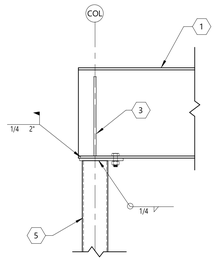
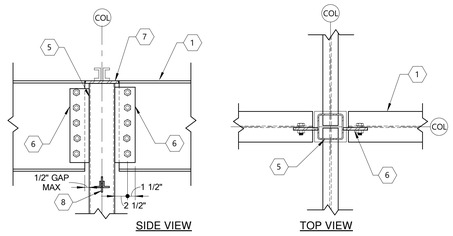


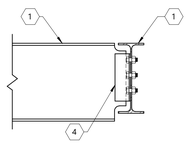
1 Beam Over Column
1" = 1'-0"



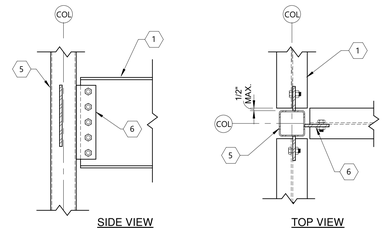
2 Beam Over Column At End
1" = 1'-0"



3 Beam To HSS @ Joist
1" = 1'-0"



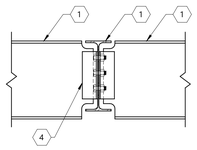
4 Typical Beam To Beam
1" = 1'-0"



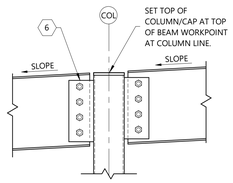
5 Beam To HSS Column
1" = 1'-0"

Keynote Legend

1	STEEL BEAM - SEE PLAN FOR SIZE.
2	3/4" CAP PLATE WITH (4)-3/4" DIA. BOLTS.
3	3/8" STIFFENER PLATE EACH SIDE OF BEAM WEB. WELD BOTH SIDES CONTINUOUS WITH 1/4" FILLET WELD.
4	STANDARD DOUBLE ANGLE BEAM CONNECTION. RE: BEAM CONNECTION SCHEDULE AND DETAIL FOR INFORMATION.
5	STEEL COLUMN - SEE PLAN FOR SIZE.
6	STANDARD SINGLE PLATE BEAM CONNECTION. RE: TYPICAL BEAM TO HSS COLUMN CONNECTION SCHEDULE AND DETAIL.
7	1/2" CAP PLATE.
8	4"x4"x1/4" (MIN.) STEEL JOIST STABILIZER PLATE SHOP WELDED ALL AROUND TO COLUMN. DO NOT WELD JOIST TO PLATE. COORDINATE WITH JOIST SUPPLIER.
9	1/2" THICK GRADE 50 FLANGE PLATE WITH (6)-3/4" DIA. A325-TC BOLTS. WIDTH OF PLATE SHALL MATCH WIDTH OF COLUMN. PROVIDE COMPLETE JOINT PENETRATION WELD TO COLUMN.
10	1/2" THICK GRADE 50 CAP/FLANGE PLATE WITH (6)-3/4" DIA. A325-TC BOLTS. WIDTH OF PLATE SHALL BE WIDTH OF COLUMN PLUS ONE-INCH, CENTERED ON COLUMN.
11	HSS 3 1/2X3 1/2X 1/4" OUTRIGGER BEAM. MATCH JOIST EXTENSIONS. PART PEN WELD TO HSS COLUMN.



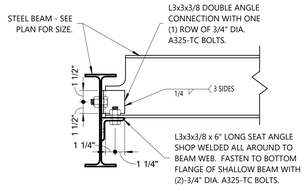
6 Typical Interior Beam To Beam
1" = 1'-0"



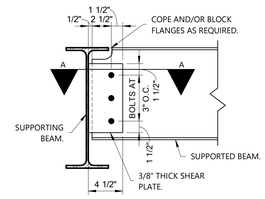
7 Top Of Col. At Sloped Framing
1" = 1'-0"

NOTE:

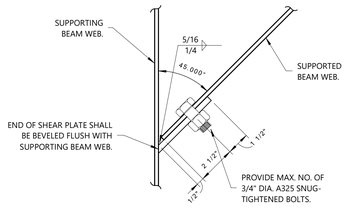
THIS DETAIL SHALL BE USED AT SHALLOW BEAM CONNECTIONS WHERE GEOMETRY DOES NOT PERMIT USAGE OF STANDARD DOUBLE ANGLE CONNECTIONS.



8 Shallow Beam Connection
1 1/2" = 1'-0"

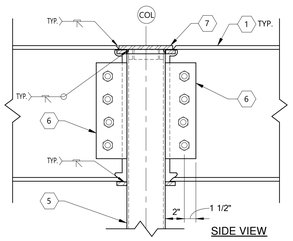


9 Skewed Beam Connection At 45 Degrees
1 1/2" = 1'-0"

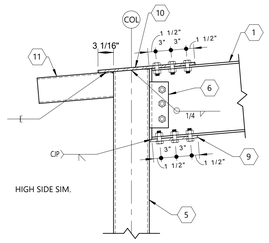


SECTION A-A

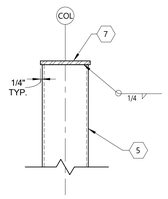
10 Skewed Beam Connection At 45 Degrees A-A
3" = 1'-0"



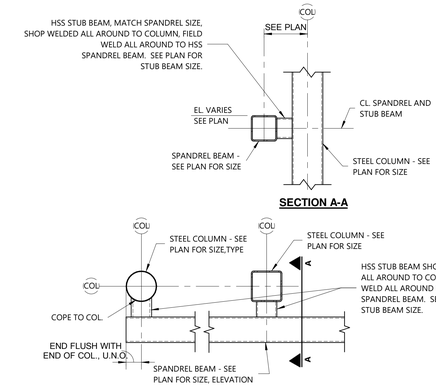
11 Typ. Moment Connection Beam To Hss Column
1 1/2" = 1'-0"



12 HSS Column Moment At Top (Low Side)
1" = 1'-0"



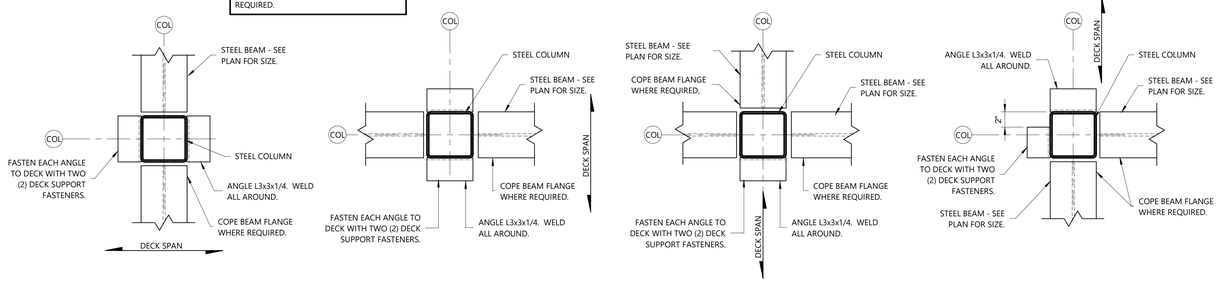
13 HSS Column Cap Plate Detail
1 1/2" = 1'-0"



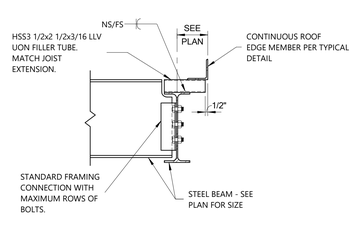
14 Spandrel To Column
1" = 1'-0"

NOTE:

PROVIDE ANGLES AS REQUIRED WHERE BEAMS DO NOT FRAME TO COLUMNS. CONTRACTOR TO SEAL ANY CAVITIES AS REQUIRED.



15 Metal Deck Support At HSS Column
1 1/2" = 1'-0"



TYPICAL UON

16 HSS ROOF EXTENSION @ BEAMS
1" = 1'-0"

FOX:NESBIT
BATON ROUGE 225:293:6595
NEW ORLEANS www.fox-nesbit.com

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FRAMING DETAILS

SHEET NUMBER
S700

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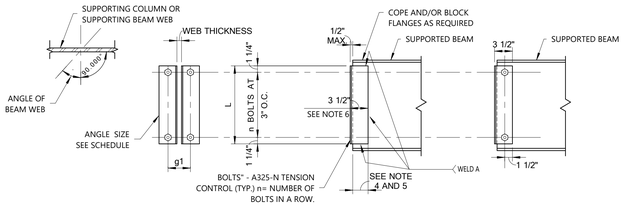


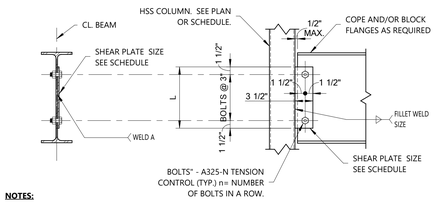
OPTION 1 - SUPPORTED BEAM WELDED **OPTION 2 - SUPPORTED BEAM BOLTED**

NOTES:

1. WHERE BEAMS AND GIRDERS FRAME INTO A W8 COLUMN OR THE WEB OF A W10 COLUMN, ANGLE SIZE 3x3 1/2xSAME THICKNESS SHALL BE USED AND g1 SHALL BE DECREASED BY 2" TYPICALLY.
2. FOR CHANNEL CONNECTIONS, USE ANGLE AND BOLTS FOR SIMILAR DEPTH BEAM SHOWN BELOW.
3. FOR ANGLES 0 DEGREES TO 14 DEGREES FROM PERPENDICULAR, ANGLES SHALL BE BENT.
4. FOR ANGLES 14 DEGREES TO 33.7 DEGREES FROM PERPENDICULAR, PROVIDE (2) BENT PLATES 3/8" X AS REQUIRED BY GEOMETRY (PROVIDE MIN. 3/16" WELD ALL AROUND).
5. FOR ANGLES 33.7 DEGREES TO 71.6 DEGREES FROM PERPENDICULAR, PROVIDE (1) BENT PLATE 3/8" X AS REQUIRED BY GEOMETRY (PROVIDE MIN. 3/16" WELD ALL AROUND). AT W24's AND DEEPER PROVIDE 1/2" THICK BENT PLATE.
6. LEG SHALL BE ADJUSTED WHERE REQUIRED BY GEOMETRY.
7. AT ALL BEAM CONNECTIONS TO DIAGONAL BRACED FRAME COLUMNS IN WHICH BEAM IS PARALLEL TO THE DIAGONAL BRACED FRAME, THE CONNECTION ANGLE THICKNESS SHALL BE INCREASED TO 1/2" AND "WELD A" SHALL BE 1/4".
8. AT DOUBLE BEAM CONNECTIONS AT COLUMNS, INCREASE ANGLE LEG AND ADD BOLTS AS REQUIRED TO MEET OSHA STANDARDS.
9. FOR BEAM TO BEAM CONNECTIONS, PROVIDE CONNECTION PER THE SHALLOWER MEMBER AND COPE SUPPORTED BEAM AS REQUIRED.
10. CONNECTION TO WEB OF SUPPORTED BEAM MAY BE WELDED OR BOLTED.

BEAM SIZE	ANGLE SIZE	L (inches)	n	g1	WELD A	BOLTS
W8's & W10's	L4x3 1/2x5/16	5 1/2	2	5 1/2	3/16	3/4"
W12's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"
W14's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"
W16's	L4x3 1/2x5/16	11 1/2	4	5 1/2	3/16	3/4"
W18's	L4x3 1/2x5/16	14 1/2	5	5 1/2	3/16	3/4"
W21's	L4x3 1/2x5/16	17 1/2	6	5 1/2	3/16	3/4"
W24's	L4x3 1/2x5/16	20 1/2	7	5 1/2	1/4	3/4"
W27's	L4x3 1/2x5/16	23 1/2	8	5 1/2	1/4	3/4"
W30's	L4x3 1/2x5/16	26 1/2	9	5 1/2	1/4	3/4"

1 Typical Beam Connection Schedule And Detail
1" = 1'-0"

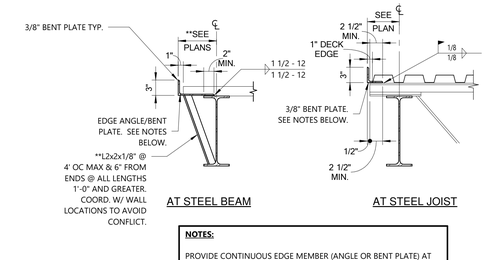


NOTES:

1. WHERE BEAM FRAMES INTO FLAT FACE OF HSS COLUMN ON A SKEW 10 DEGREES OR LESS FROM PERPENDICULAR, PLATE SHALL BE WELDED TO COLUMN WITH FILLET WELD AS INDICATED IN TABLE BELOW.
2. WHERE BEAM FRAMES INTO FLAT FACE OF HSS COLUMN ON A SKEW GREATER THAN 10 DEGREES FROM PERPENDICULAR, PLATE SHALL BE FULL PEN WELDED TO COLUMN.
3. FOR PLATES ATTACHING TO THE RADIUSED CORNER OF AN HSS COLUMN USE COMPLETE JOINT PENETRATION WELD.
4. SLOTTED BOLT HOLES SHALL NOT BE USED, UNLESS NOTED OTHERWISE, EXCEPT AT LOCATIONS APPROVED BY ENGINEER VIA THE RFI PROCESS.

BEAM SIZE	PLATE SIZE (inches)	L (inches)	n	WELD (TYP.) EA. SIDE (inches)	BOLTS (TYP.)
W8's	5/16	6	2	1/4	3/4"
W10's	5/16	6	2	1/4	3/4"
W12's	5/16	9	3	1/4	3/4"
W14's	5/16	9	3	1/4	3/4"
W16's	5/16	12	4	1/4	3/4"
W18's	5/16	15	5	1/4	3/4"
W21's	5/16	18	6	1/4	3/4"
W24's	5/16	18	6	1/4	3/4"
W27's	5/16	21	7	1/4	3/4"

2 Typical Beam To HSS Column Connection Schedule And Detail
1" = 1'-0"



NOTES:

PROVIDE CONTINUOUS EDGE MEMBER (ANGLE OR BENT PLATE) AT ALL ROOF EDGES, UNLESS NOTED OTHERWISE.

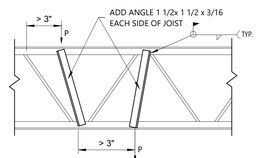
MINIMUM THICKNESS OF EDGE MEMBER IS 3/8".

PROVIDE 4"x2"x1/4" SPLICE PLATE AT ALL JOINTS IN THE EDGE MEMBER. CENTER SPLICE PLATE ON JOINT AND WELD BOTH SIDES.

ALL EDGE MEMBER SPLICES SHALL OCCUR CENTERED ON A JOIST OR A COLUMN.

SPLICE PLATE

3 Typical Edge Angle/Bent Plate At Roof
1" = 1'-0"

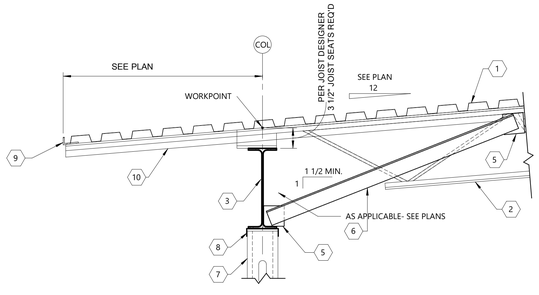


FIELD INSTALL ANGLE AT ALL CONCENTRATED LOADS "P" NOT OCCURRING WITHIN 3 INCHES OF A JOIST PANEL POINT.

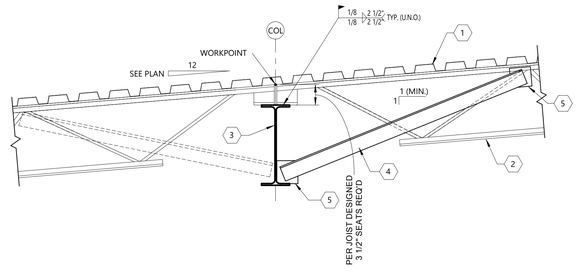
ANGLES ARE NOT REQUIRED AT POINT LOADS OF 100 POUNDS OR SMALLER IF THE SUM OF ALL POINTS LOADS BETWEEN PANEL POINTS IS 100 POUNDS OR SMALLER.

ALL ATTACHMENTS SHALL BE MADE CONCENTRIC TO THE CHORD. (I.E., DO NOT INDUCE TWISTING INTO CHORD.)
POINT LOADS SHALL NOT EXCEED 300 POUNDS UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS (E.G. MECHANICAL UNIT LOADINGS)

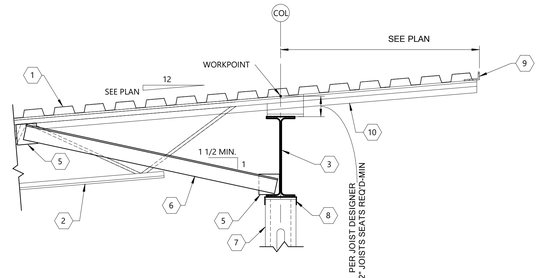
4 Joist Point Load Detail
1" = 1'-0"



5 Sloped Joist Roof Edge (Low With Ext.)
1" = 1'-0"



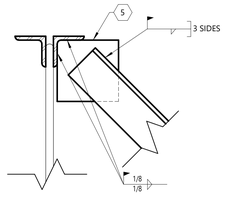
6 Interior Roof Beam At Sloped Joists
1" = 1'-0"



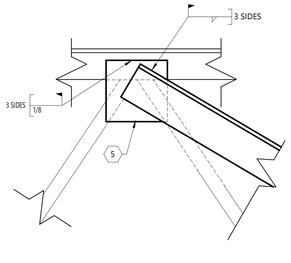
7 Sloped Joist Roof Edge (High With Ext.)
1" = 1'-0"

Keynote Legend

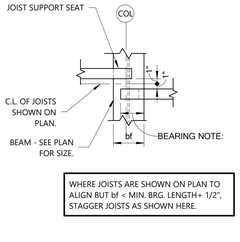
1	GALVANIZED METAL FLOOR OR ROOF DECK. RE: PLANS AND DECK FASTENER TABLE FOR INFORMATION.
2	STEEL JOIST - SEE PLAN FOR SIZE. JOISTS TO HAVE 3 1/2" SEATS.
3	STEEL BEAM - SEE PLAN FOR SIZE.
4	BRACE ALL INTERIOR BEAMS TO JOISTS WITH L2 1/2x2 1/2x3/16 BRACE. BRACE AT EVERY OTHER JOIST LINE. STAGGER BRACES SIDE TO SIDE OF EACH BRACED JOIST LINE. FIELD WELD EACH END 3 SIDES.
5	4"x4"x1/4" GUSSET PLATE. FIELD WELD TO BEAM OR JOIST TOP CHORD AT PANEL POINT LOCATION. PROVIDE CONTINUOUS 1/8" FILLET WELD ON BOTH SIDES OF GUSSET PLATE.
6	BRACE ALL ROOF EDGE BEAMS TO EVERY JOIST USING AN L2 1/2X2 1/2X3/16 KICKER BRACE. FIELD WELD 3 SIDES EACH END. JOIST SUPPLIER SHALL DESIGN EACH JOIST FOR A 700 POUND ASD-FACTORED BRACE FORCE (TENSION OR COMPRESSION) DUE TO WIND. ATTACHMENT TO JOIST SHALL BE AT PANEL POINT.
7	COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. RE: ARCH. DRAWINGS FOR STUD DEPTH. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION.
8	COLD-FORMED METAL SLIP CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. (BLOCKING BELOW JOIST TAILS SHOWN LOWER IF APPLICABLE). ATTACH TO STRUCTURE AS SHOWN AND PROVIDE VERTICAL SLIP PER SPECIFICATIONS. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO TOP FLANGE OF BEAM AS POSSIBLE.
9	CONTINUOUS EDGE MEMBER PER "TYPICAL EDGE ANGLE/BENT PLATE AT ROOF" DETAIL.
10	TYPE R JOIST EXTENSION.
11	STEEL COLUMN - SEE PLAN FOR SIZE.
12	HSS 3 1/2X3 1/2X 1/4" OUTRIGGER BEAM. MATCH JOIST EXTENSIONS. PART PEN WELD TO HSS COLUMN.
13	L4x4x1/2, SAME LENGTH AS WIDTH OF COLUMN OR BEAM, WHICHEVER IS GREATER. SHOP WELD EACH ANGLE ALL AROUND TO COLUMN WITH 1/4" FILLET WELD TOP AND BOTTOM AND FLARE BEVEL GROOVE WELD ON SIDES. FIELD WELD 3 SIDES OF EACH ANGLE TO BEAM WITH 1/4" FILLET WELD AND FLARE BEVEL GROOVE WELD. DO NOT SHOP WELD EITHER ANGLE TO BEAM.



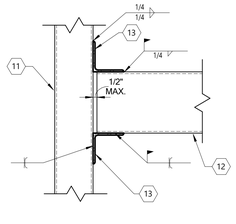
8 Brace To Joist - Perpendicular
3" = 1'-0"



9 Brace To Joist - Parallel
3" = 1'-0"



10 Staggerer Joist Layout
1" = 1'-0"



11 HSS Beam To HSS Column
1 1/2" = 1'-0"

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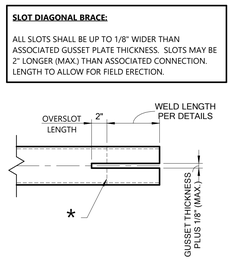
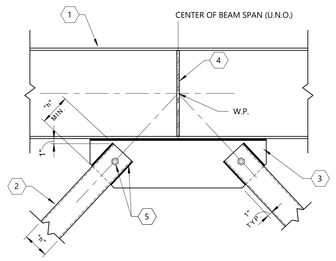
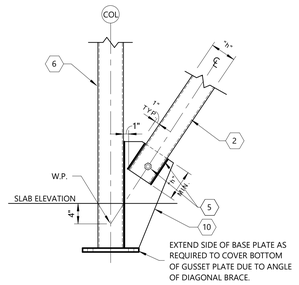


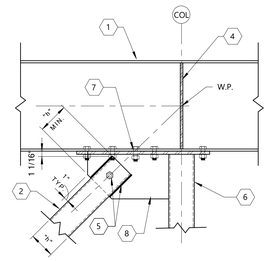
1 Diagonal Brace Slot Detail
1 1/2" = 1'-0"



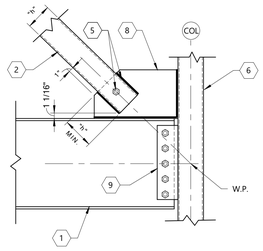
2 Brace Detail
1" = 1'-0"



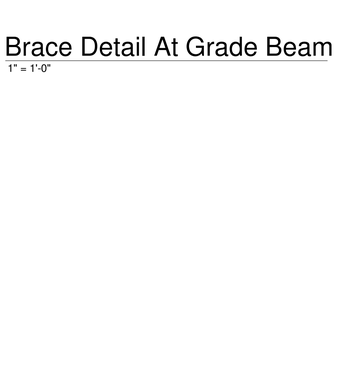
3 Brace Detail At Base
1" = 1'-0"



4 Brace At HSS Col.
1" = 1'-0"

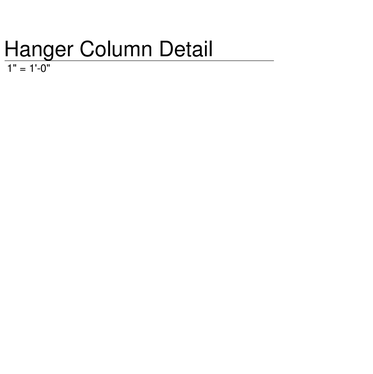


5 Brace Detail At HSS Col.
1" = 1'-0"



6 Brace Detail At Grade Beam
1" = 1'-0"

7 Small Reinforced Roof Deck Opening
1" = 1'-0"



8 Hanger Column Detail
1" = 1'-0"

Keynote Legend

1	STEEL BEAM - SEE PLAN FOR SIZE.
2	DIAGONAL BRACE MEMBER - SEE ELEVATIONS FOR SIZE.
3	3/4" THICK GUSSET PLATE SHOP WELDED TO BEAM WITH CONTINUOUS 1/4" FILLET WELD EACH SIDE OF PLATE.
4	3/8" WEB STIFFENER BOTH SIDES OF BEAM WEB. WELD CONTINUOUS BOTH SIDES WITH 1/4" FILLET WELD.
5	(1)-3/4" DIA. A325-N BOLT FOR ERECTION. FIELD WELD TUBE TO PLATE ALL AROUND ON BOTH SIDES OF PLATE WITH 1/4" FILLET WELD. PROVIDE 15/16" DIA. HOLES IN BRACE AND GUSSET PLATE.
6	STEEL COLUMN - SEE PLAN FOR SIZE.
7	3/4" BEARING PLATE SHOP WELDED WITH 1/4" FILLET WELD CONTINUOUS TO GUSSET PLATE AND COLUMN, AND FIELD BOLTED WITH (5)-3/4" DIA. BOLTS EACH SIDE OF BEAM.
8	3/4" THICK GUSSET PLATE SHOP WELDED TO BEAM WITH CONTINUOUS 5/16" FILLET WELD EACH SIDE OF PLATE. FIELD WELD TO COLUMN WITH CONTINUOUS 5/16" FILLET WELD ON EACH SIDE OF PLATE.
9	STANDARD SINGLE PLATE BEAM CONNECTION. RE: TYPICAL BEAM TO HSS COLUMN CONNECTION SCHEDULE AND DETAIL.
10	3/4" THICK GUSSET PLATE SHOP WELDED TO COLUMN AND BASE PLATE WITH CONTINUOUS 5/16" FILLET WELD EACH SIDE OF PLATE.
11	3/8" STIFFENER PLATE EACH SIDE OF BEAM WEB. WELD BOTH SIDES CONTINUOUS WITH 1/4" FILLET WELD.
12	HSS HANGER COL. - SEE PLAN FOR SIZE. HSS4X4X5/16 IF NOT NOTED WITH L3X3X1/4" KICKER BRACE BACK TO DECK OR ADJACENT BEAM/JOIST. PART PEN WELD TO SPANDREL BEAM AT BTM OF COLUMN.
13	GRADE BEAM - SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
14	3/8"x5"x5" STEEL PLATE ON EACH SIDE OF DIAGONAL BRACE SHOP WELDED ALL AROUND TO BASE PLATE WITH 1/4" FILLET WELD.
15	BASE PLATE - SEE TYPICAL DETAILS.

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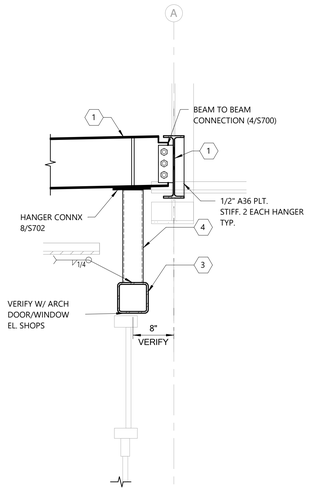
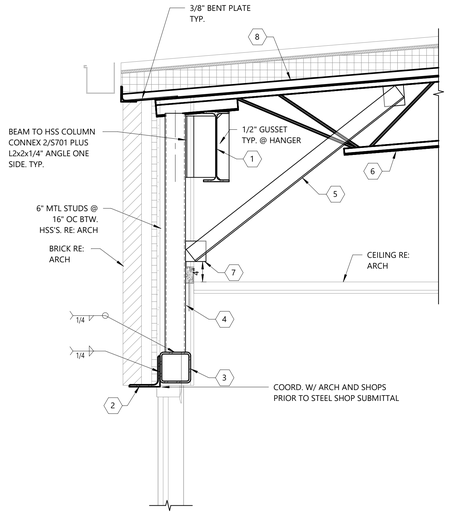
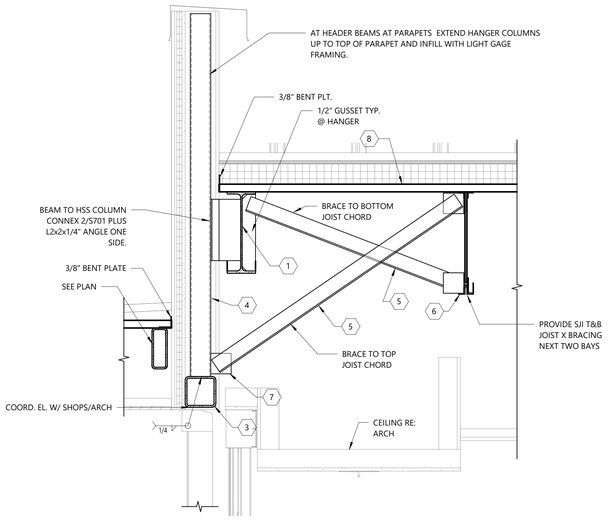


1 Header @ Low-Roof Automatic Slider
1" = 1'-0"



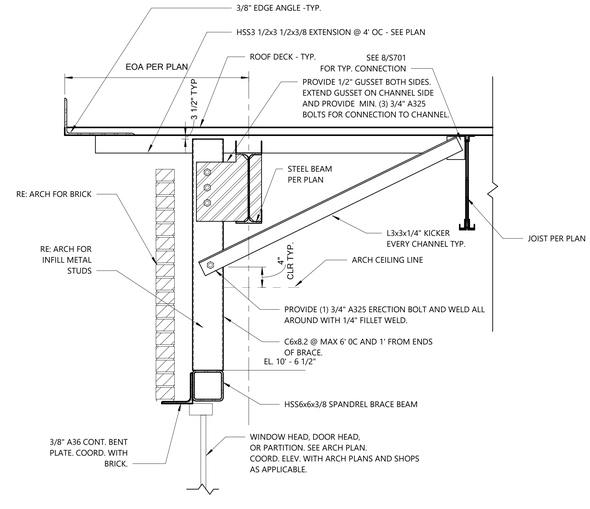
2 Typ. Window Header @ Mid-Roof
1" = 1'-0"



3 Exterior Header @ Front Mid-Roof
1" = 1'-0"

Keynote Legend

1 STEEL BEAM - SEE PLAN FOR SIZE.
2 6X6X3/8" ANGLE BRICK LEDGE. COORD. EL W/ ARCH.
3 HSS6x6x3/8 HEADER.
4 HSS4X4X1/4 HANGER COLUMN @6' MAX O.C.
5 L3X3X1/4" KICKER BRACE. FIELD WELD 3 SIDES EACH END.
6 STEEL JOIST - SEE PLAN FOR SIZE. JOISTS TO HAVE 3 1/2" SEATS.
7 4"x4"x1/4" GUSSET PLATE. FIELD WELD TO BEAM OR JOIST TOP CHORD AT PANEL POINT LOCATION. PROVIDE CONTINUOUS 1/8" FILLET WELD ON BOTH SIDES OF GUSSET PLATE.
8 GALVANIZED METAL FLOOR OR ROOF DECK. RE: PLANS AND DECK FASTENER TABLE FOR INFORMATION.
9 PROVIDE KICKER BRACE IF COLUMN HANGERS ARE 4'-0" OR LONGER.
10 (2) L4x4x3/8 ONE EACH SIDE OF HSS. WELD TO EACH SIDE OF HSS. AND TO BOTTOM CHORDS OF JOIST/BEAM.
11 STEEL COLUMN - SEE PLAN FOR SIZE.



4 Exterior Header @ High Roof
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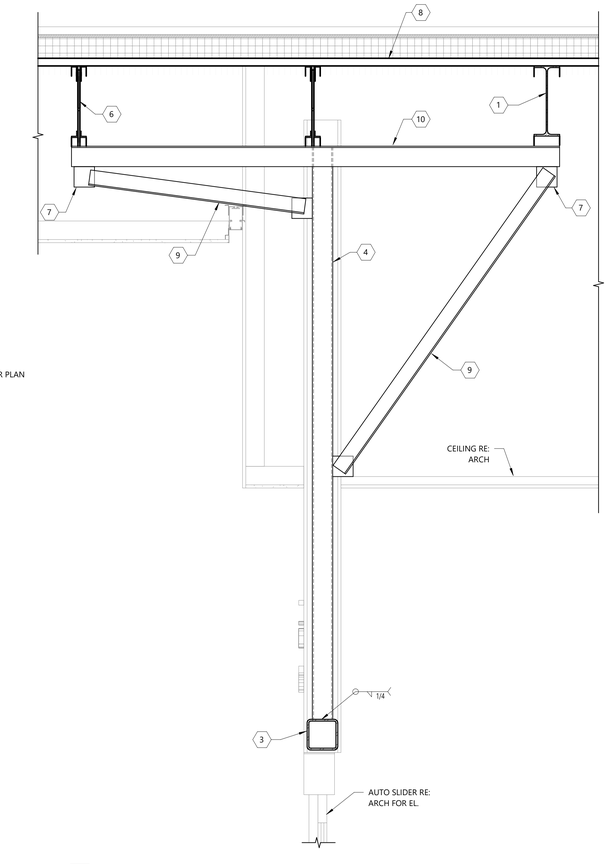
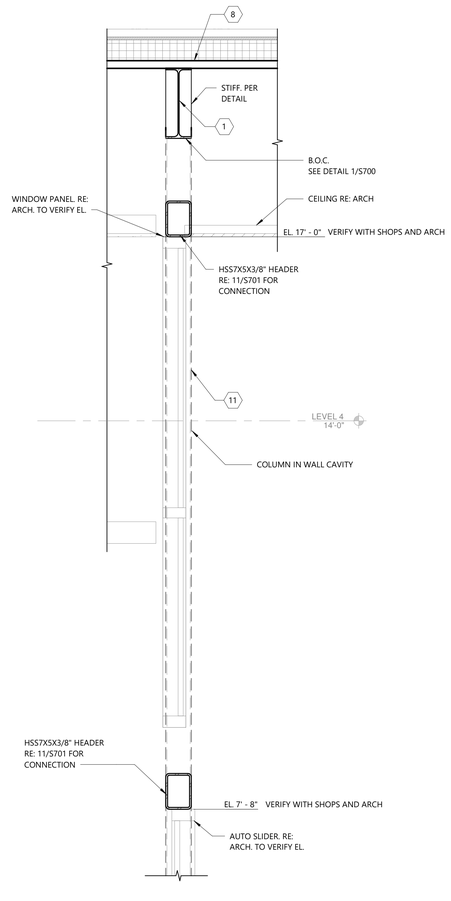


5 Typical Interior Header @ Automatic Slider
1" = 1'-0"



6 Main Entry Automatic Slider
N.T.S.

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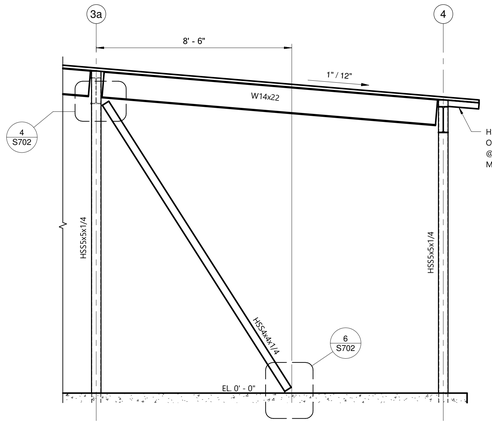

1 BF-C
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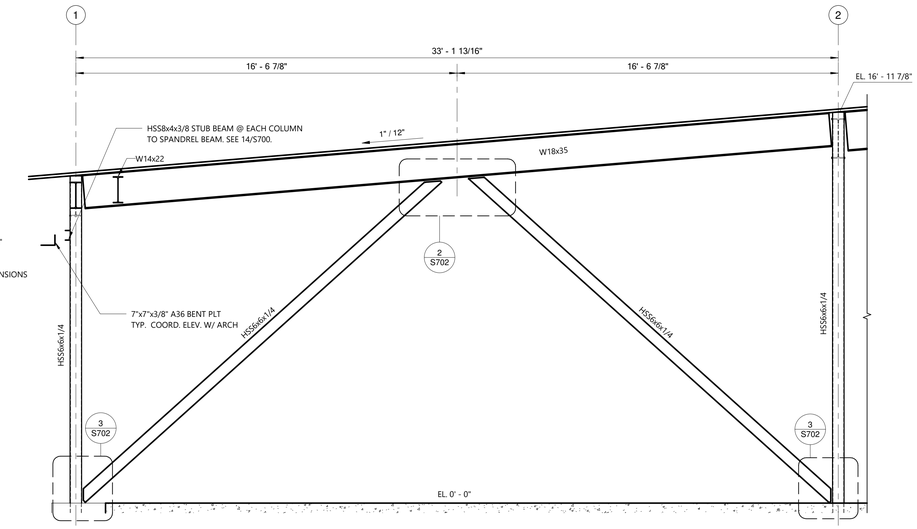

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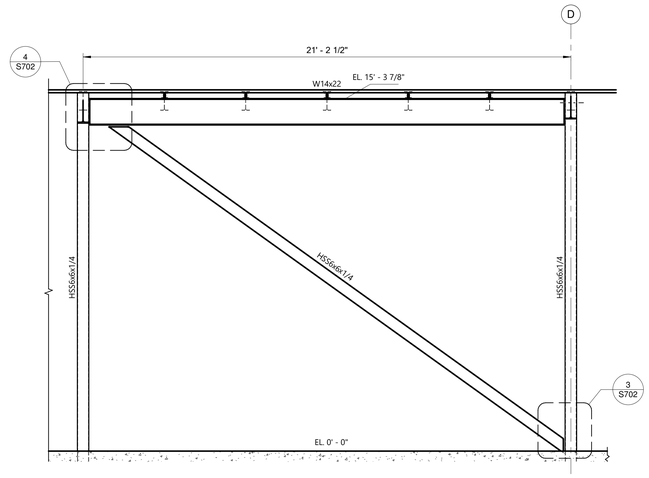

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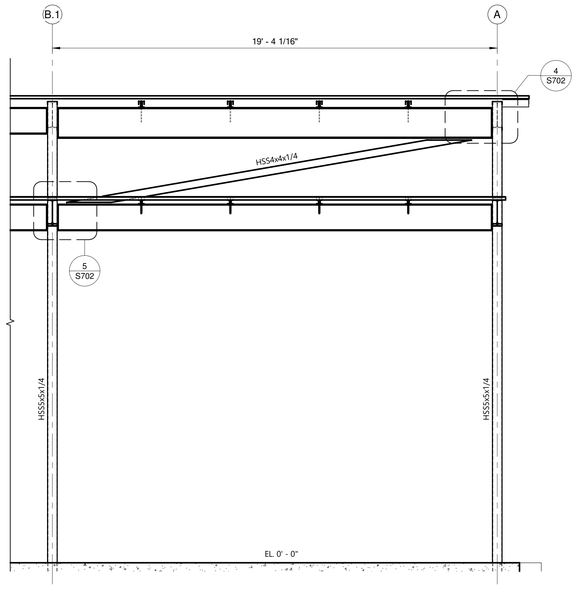

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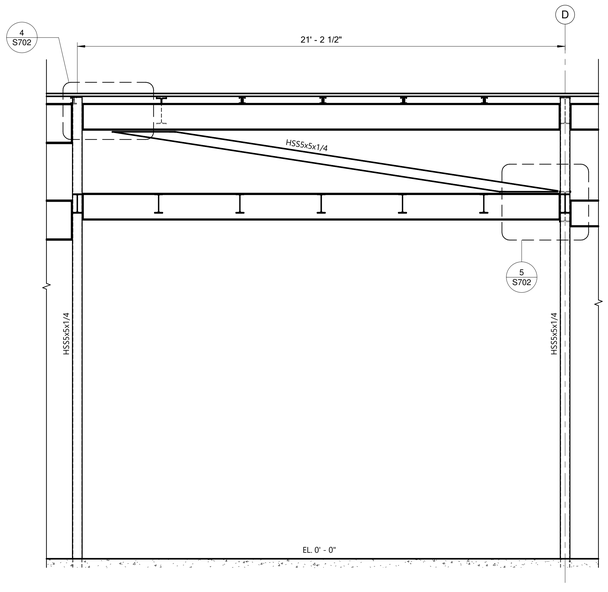

5 BF-L
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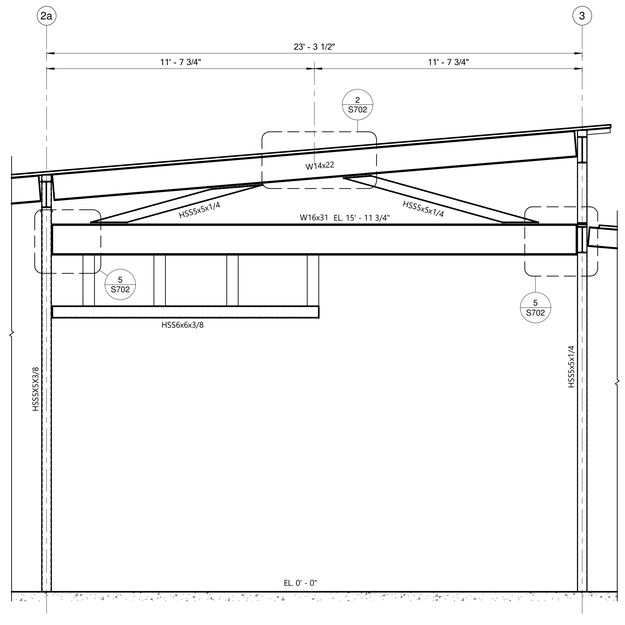

6 BF-M
3/8" = 1'-0"

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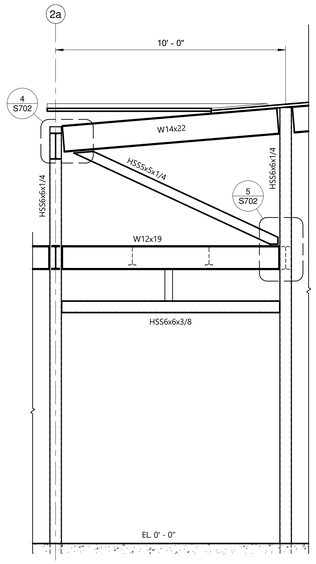

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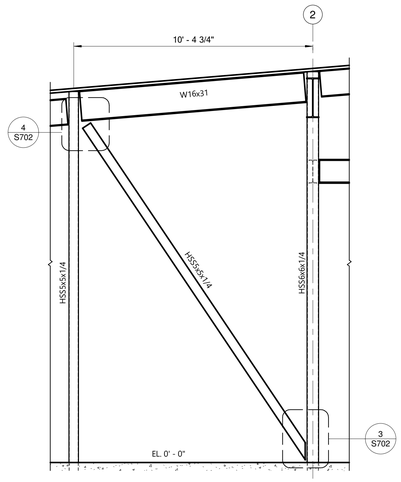

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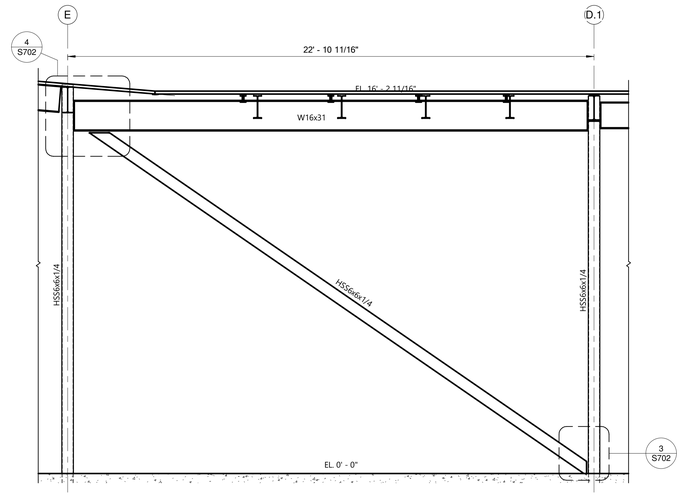

3 BF-P
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GENERAL NOTES

A. APPLICABLE DESIGN CODES & MISCELLANEOUS

INTERNATIONAL BUILDING CODE 2021
AMERICAN CONCRETE INSTITUTE 318
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

IBC CHAPTER 17 SPECIAL INSPECTIONS:
THE OWNER OR THE OWNER'S REPRESENTATIVE IS REQUIRED TO PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF IBC 2021. THE GENERAL CONTRACTOR IS REQUIRED TO ENGAGE AND ACCOMMODATE THE REQUIRED SPECIAL INSPECTIONS BY PROVIDING ACCESS TO ELEMENTS REQUIRED FOR INSPECTION AND BY NOTIFYING THE TESTING AGENCY 48 HOURS PRIOR TO A REQUIRED INSPECTION EVENT. THE CONTRACTOR SHALL PROVIDE REPORTS FROM THE TESTING AGENCY INDICATING COMPLIANCE WITH THE IBC REQUIREMENTS FOR:
- STEEL CONSTRUCTION (IBC 1705.2)
- CONCRETE CONSTRUCTION (IBC 1705.3)
- DRIVEN PILES (IBC 1705.7)

STRUCTURAL OBSERVATIONS:
STRUCTURAL OBSERVATIONS SHALL BE CONDUCTED BY THE ENGINEER OF RECORD TO ASSURE GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THESE OBSERVATIONS WILL NOT TAKE THE PLACE OF THE CODE REQUIRED SPECIAL INSPECTIONS LISTED ABOVE OR ANY OTHER INSPECTIONS REQUIRED BY THE LOCAL BUILDING OFFICIAL. NOTIFY ENGINEER OF RECORD AND ARCHITECT FOR STRUCTURAL OBSERVATION VIA EMAIL A MINIMUM OF 72 HOURS PRIOR TO ANY OF THE FOLLOWING EVENTS:
- INSTALLATION OF PILES AND /OR DRILLED SHAFTS
- ALL CONCRETE/GROUT POURS (WITH IDENTIFICATION OF SPECIFIC ELEMENTS TO BE POURED)
- COMMENCEMENT OF MASONRY WORK
- NEAR COMPLETION OF STRUCTURAL STEEL ERECTION.
- PLACEMENT OF INTERIOR SHEATHING OR INSULATION COVERING WOOD FRAMING OR COLD-FORMED METAL FRAMING.
- PLACEMENT OF ROOFING COVERING ROOF DECK.

FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED WORK.

PROVIDE COMPREHENSIVE ELECTRONICALLY TRANSMITTED PHOTOS OF ANY REQUESTED WORK TO ENGINEER PRIOR TO ANY OF THE ABOVE EVENTS IN LIEU OF OBSERVATION IF DEEMED ACCEPTABLE BY ENGINEER.

B. DESIGN LOADS AND REQUIREMENTS SECTION

LIVE LOADS
ASSEMBLY (MOVEABLE SEATS) ------ 100 PSF (REDUCIBLE)
READING ROOMS ------------------- 60 PSF (REDUCIBLE)
STACK ROOMS ---------------------150 PSF (REDUCIBLE)
LOBBIES AND CORRIDORS ----------100 PSF (REDUCIBLE)
OFFICE AREAS ----------50 PSF

ROOF LIVE LOADS
LIVE LOAD ----------20 PSF (REDUCIBLE)
LIVE LOAD ----------300 LB (CONCENTRATED)

GROUND SNOW LOAD ---------- 0 PSF

LATERAL DESIGN - WIND
ASCE 7-16
ULTIMATE DESIGN WIND SPEED (V_{ult})------- 148 MPH
NOMINAL DESIGN WIND SPEED (V_{asd})------- 115 MPH
EXPOSURE CATEGORY ---------- C
RISK CATEGORY ---------- III
INTERNAL PRESSURE COEFFICIENT ---------- +/-0.18
MWFRS - DIRECTIONAL PROCEDURE

LATERAL DESIGN -SEISMIC
ASCE 7-16
IMPORTANCE FACTOR ---------- 1.25
S_s ---------- 0.086g
S_1 ---------- 0.053g
SITE CLASS ---------- D
S_{ds} ---------- 0.092g
S_{d1} ---------- 0.085g
SEISMIC DESIGN CATEGORY-------- B
C_s ---------- 0.031
DESIGN BASE SHEAR ---------- 0.031*W
R ---------- 3
EQUIVALENT LATERAL-FORCE ANALYSIS METHOD.
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

C. GEOTECHNICAL

THE FOUNDATION AND SLAB DESIGN WAS BASED ON THE GEOTECHNICAL INVESTIGATION BY TERRACON DATED APRIL 1, 2025 PROJECT NO. ET245148.R1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT PRIOR TO BIDDING. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE AT THE ARCHITECT'S OFFICE FOR REVIEW.

A SURCHARGE PROGRAM IS REQUIRED FOR THIS SITE PRIOR TO CONSTRUCTION. SEE GEOTECHNICAL REPORT. PREPARATION OF SURCHARGE PROGRAM BY OTHERS. FOUNDATION DESIGN BASED ON COMPLETION OF SURCHARGE PROGRAM AS STATED IN GEOTECHNICAL REPORT.

SEE SPECIFICATIONS FOR PILE INFORMATION AND LOAD TEST INFORMATION.

OWNER WILL PAY FOR TESTING AGENCY TO PERFORM LOAD TEST WITH ALL EQUIPMENT AND MATERIALS INSTALLED BY GC. PILE LOGGING SHALL BE COMPLETED BY TESTING AGENCY.

D. CONCRETE AND GROUT

CONCRETE MIXING, HANDLING, PLACING, AND CURING SHALL BE IN ACCORDANCE WITH ACI 301.

SEE THE "CONCRETE MIX REQUIREMENTS" TABLE FOR DESCRIPTIONS AND REQUIREMENTS OF CONCRETE TYPES.

FLY ASH IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

SLAG IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

ALL GROUT SHALL BE NON-SHRINK GROUT. THERE SHALL BE 2" NON-SHRINK GROUT BENEATH ALL COLUMN BASE PLATES.

ALL FLOOR DRAINS, DROPS, CURBS, ETC. SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

SEE PLUMBING DRAWINGS FOR LOCATIONS OF ALL FLOOR DRAINS. SLOPE GROUND FLOOR SLAB AND ELEVATED SLABS AT ALL FLOOR DRAINS AWAY FROM WALLS IN ROOM TO LOW POINT AT FLOOR DRAIN WHICH SHALL BE SET 1/2" BELOW FINISHED FLOOR OF SLAB, UNLESS NOTED OTHERWISE.

ALL GRADE BEAMS, AND OTHER CONCRETE FOUNDATION EDGES SHALL BE FULLY PLYWOOD FORMED.

THE TOP 5" OF BOTH SIDES OF ALL GRADE BEAMS SHALL BE WOOD FORMED. ALL SPREAD FOOTINGS SHALL BE EARTH FORMED - UNLESS NOTED OTHERWISE.

ALL EXPOSED SURFACES OF CONCRETE WALLS, FOUNDATION EDGES, AND SLAB EDGES SHALL BE PLYWOOD FORMED AND COATED WITH A REPAIR MORTAR.

RANDOM TRAFFIC FLOOR FINISH TOLERANCES (F_F AND F_L) FOR SLABS ARE TO MEET SPECIFIED OVERALL FLATNESS OF SOF$_F$ = 35 AND SPECIFIED OVERALL LEVELNESS OF SOF$_L$ = 25 WITH MINIMUM LOCAL VALUES OF MLF$_F$ = 21 AND MLF$_L$ = 15, AS EXPRESSED IN ACI 117, SECTION 4, AND MEASURED WITHIN 72 HOURS IN ACCORDANCE WITH ASTM E 115.

COORDINATE ALL DEVIATIONS IN FLATNESS/LEVELNESS WITH ARCHITECT TO COMPLY WITH AESTHETIC AND FLOOR FINISH REQUIREMENTS.

ALL INTERIOR SAWED JOINTS TO BE 1/8" WIDE X 1/3 OF DEPTH OF SLAB. FILL WITH EUCLID EUCO 700 SEMI-RIGID EPOXY JOINT FILLER OF APPROVED EQUAL COMPLIANT TO ACI 302 RECOMMENDATIONS REGARDING CONTROL AND CONSTRUCTION JOINTS.

ALL EXTERIOR SAWED JOINTS TO BE 1/8" WIDE X 1/3 OF DEPTH OF SLAB. FILL WITH EUCLID EUCOLASTIC 1 ONE PART URETHANE JOINT FILLER OR APPROVED EQUAL COMPLIANT TO ASTM C920 GRADE P, CLASS 25.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 10 CUBIC YARDS OF UNSCHEDULED 4000 PSI STRUCTURAL FOUNDATION/SLAB CONCRETE FOR MISCELLANEOUS USE TO BE DELIVERED, PLACED, FORMED, AND FINISHED AS DIRECTED BY STRUCTURAL ENGINEER.

VERIFY ALL SLAB EDGE DIMENSIONS AT DOORS AND FULL-HEIGHT WINDOWS WITH ARCHITECTURAL DRAWINGS PRIOR TO SETTING OF GROUND FLOOR SLAB EDGE FORMS. AT LOCATIONS WHERE SLAB EDGE EXTENDS PAST OUTSIDE EDGE OF DOOR OR FULL-HEIGHT WINDOW, SLOPE SLAB DOWN 1/4" FROM OUTSIDE FACE OF DOOR WINDOW TO SLAB EDGE, UNLESS NOTED OTHERWISE.

E. CONCRETE REINFORCEMENT

ALL REBARS SHALL BE GRADE 60 (FY = 60,000 PSI MIN.)

VAPOR RETARDER AT GROUND FLOOR SLABS TO BE 15 MIL WITH TAPED JOINTS. REFERENCE SPECIFICATIONS FOR CAST-IN-PLACE CONCRETE FOR ADDITIONAL INFORMATION.

HOOK ALL GRADE BEAM TOP BARS AT THE END OF THE GRADE BEAM.

PROVIDE (2)-#6 L BARS (a=36",b=36") ONE TOP AND ONE BOTTOM AT THE OUTSIDE FACE OF ALL GRADE BEAM CORNERS.

PROVIDE (4)-#6 L BARS (a=36",b=36") TWO TOP AND TWO BOTTOM AT ALL GRADE BEAM INTERSECTIONS.

PROVIDE #5 L BARS (a=18",b=18") AT CORNER OF ELEVATOR PIT WALLS. SPACE BARS WITH ALL HORIZONTAL WALL REINFORCEMENT.

PROVIDE HORIZONTAL #4 (a=24", b=24") CORNER BARS AT ALL CONCRETE WALL CORNERS TO LAP WITH WALL REINFORCING BARS, U.N.O.

ALL WELDED WIRE MESH SHALL HAVE 12" MIN. LAP BETWEEN SHEETS.

PLACE AND SECURE ALL EMBEDDED ITEMS INCLUDING REINFORCING DOWELS, ANCHOR BOLTS, FORM SAVER DOWELS AND EMBED PLATES PRIOR TO PLACING OF CONCRETE. DO NOT WET STICK ANY OF THESE ITEMS, UNLESS NOTED OTHERWISE HEREIN OR PERMITTED BY ENGINEER OF RECORD IN WRITING. THIS DOES NOT APPLY TO SINGLE-BAR REINFORCEMENT IN DRILLED SHAFTS.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 200 POUNDS OF UNSCHEDULED ASTM A615 GRADE 60 REBAR FOR MISCELLANEOUS USE TO BE FABRICATED, DELIVERED, PLACED, AND TIED AS DIRECTED BY STRUCTURAL ENGINEER.

F. CORRUGATED FIBERBOARD FORMS (CARDBOARD VOID FORMS)

THE VOID FORMS SHALL BE DOUBLE FACED CORRUGATED FIBERBOARD CONSTRUCTED OF WET STRENGTH PAPER, IMPREGNATED WITH WAX AND LAMINATED WITH MOISTURE RESISTANT ADHESIVE.

THE FORMS SHALL BE CERTIFIED TO HAVE A MINIMUM STRENGTH OF 500 POUNDS PER SQUARE FOOT AT 100% RELATIVE HUMIDITY AND 40 DEGREES FAHRENHEIT WITH 20% MOISTURE.

FORMS WIDER THAN 12" SHALL HAVE REINFORCED SLEEVES.

FORMS SHALL BE COVERED WITH A 10 MIL POLYETHYLENE COVER SHEET.

THE JOINTS SHALL BE TAPED WITH THREE INCH DUCT TAPE.

FORMS SHALL BE PROTECTED FROM MOISTURE PRIOR TO INSTALLATION, AND THEY MUST BE ALLOWED TO DRY BEFORE POURING CONCRETE.

REINFORCING STEEL THAT IS TO BE SUPPORTED BY FORMS SHOULD BE CARRIED ON SLAB BOLSTERS WITH RUNNERS TO PREVENT PUNCTURE OF FORMS AND CONSEQUENT DISPLACEMENT OF STEEL.

G. STRUCTURAL STEEL

STRUCTURAL STEEL MEMBERS SHALL BE MADE USING THE FOLLOWING GRADES:

WIDE FLANGE SHAPES ---------- ASTM A-992
HSS ---------- ASTM A500, GRADE C
PIPES ---------- ASTM A53, TYPE E OR S
PLATE, BARS, & ANGLES ---------- ASTM A36

ALL STRUCTURAL STEEL SHALL BE FABRICATED, COATED, AND ERECTED AS PER THE AISC SPECIFICATIONS.

ALL WELDS SHALL BE WITH E70XX ELECTRODES AND IN ACCORDANCE WITH AWS STANDARDS. MINIMUM FILLET WELD SIZE SHALL BE 1/4" - U.N.O. FOULING ELEMENTS SUCH AS PAINT, OIL, GREASE, OR OTHER CONTAMINANTS SHALL BE REMOVED AT ALL WELDED CONNECTIONS PRIOR TO WELDING.

ALL FRAMING CONNECTIONS SHALL BE MADE WITH THE MAXIMUM NUMBER OF ROWS OF 3/4" A325-N TENSION CONTROL BOLTS FOR GIVEN BEAM DEPTH. - U.N.O.

ALL TUBULAR STEEL COLUMNS SHALL HAVE 1/2" CAP PLATES - U.N.O.

PROVIDE CONTINUOUS 5/16" THICK BENT PLATE OR ANGLE AROUND PERIMETER OF ALL FLOOR EDGES INCLUDING STAIRS, ELEVATORS, MECH. PENETRATIONS, ETC.

THE CONTRACTOR SHALL ASSURE THAT THE STRUCTURE HAS BEEN ERECTED TRUE AND SUITABLE TEMPORARY BRACING AND GUYS SHALL BE INSTALLED TO MAINTAIN SAID TRUENESS. THE STRUCTURAL STEEL FRAMEWORK SHALL BE BRACED OR GUYED UNTIL FINAL ERECTION IS COMPLETE AND DECKING AND PERMANENT BRACES HAVE BEEN ERECTED.

THE STEEL FABRICATOR SHALL PROVIDE AN ALLOWANCE IN HIS BASE BID FOR A TOTAL OF FOUR TONS OF ADDITIONAL ERECTED MISCELLANEOUS STEEL AS DEEMED NECESSARY BY STRUCTURAL ENGINEER. THIS ALLOWANCE SHALL COVER ALL DETAILING, FABRICATION, MATERIALS, PAINTING, DELIVERY, ERECTION, COATINGS, AND OTHER ASSOCIATED COSTS. THE EXACT SIZE AND QUANTITY OF STEEL MATERIAL SHALL BE SELECTED BY THE STRUCTURAL ENGINEER AS REQUIRED. DEDUCTIONS FROM STEEL ALLOWANCE SHALL BE MADE IN TERMS OF WEIGHT OF MATERIAL ADDED. ANY UNUSED PORTIONS OF THIS ALLOWANCE SHALL BE CREDITED BACK TO THE OWNER AT THE RATE OF $8,000.00 PER TON.

CONTRACTOR TO PROVIDE GALVANIZED STEEL LINTELS AS REQUIRED TO SUPPORT BRICK AND/OR MASONRY VENEER ABOVE ALL OPENINGS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE (UNLESS NOTED OTHERWISE):

CLEAR OPENING	ANGLE SIZE
0 TO 4'	L4x4x1/4 LLV
4' TO 9'	L6x4x3/8 LLV
9' TO 12'	L7x4x3/8 LLV

LINTEL ANGLES SUPPORTING BRICK AND/OR MASONRY VENEER SHALL HAVE A MINIMUM BEARING SUPPORT LENGTH OF 8".

ALL STRUCTURAL STEEL INDICATED ON PLANS AS GALVANIZED (OR GALV.) SHALL BE HOT-DIP GALVANIZED PER THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. TOUCH UP ALL BREAKS IN GALVANIZE WITH A ZINC RICH COLD GALVANIZE COMPOUND PER 051200 SPECIFICATIONS.

H. OPEN WEB STEEL "BAR" JOISTS

ALL JOISTS SHALL BE CONNECTED TO SUPPORTS BY WELDING AS PER THE STEEL JOIST INSTITUTE REQUIREMENTS.

FABRICATION, COATING AND ERECTION OF ALL JOISTS SHALL BE IN ACCORDANCE WITH SJI SPECIFICATIONS.

ALL ROOF JOISTS AND THEIR CONNECTIONS TO SUPPORTING STRUCTURE SHALL BE DESIGNED FOR A NET UPLIFT ACCORDING TO THE ROOF WIND PRESSURE TABLE ON THIS SHEET. SEE NOTE 6 IN PRESSURE TABLE. 5 PSF MAY BE ASSUMED FOR 0.6D TERM IN ASD LOAD COMBINATIONS.

THE JOIST SEAT AND CONNECTION TO SUPPORTING STRUCTURE OF ALL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO TRANSMIT AN ASD-FACTORED LATERAL ROLLOVER FORCE OF 1500 POUNDS FROM THE DECK TO THE SUPPORTING STRUCTURE.

BRIDGING FOR BAR JOISTS SHALL BE AS REQUIRED BY SJI, UNLESS NOTED OTHERWISE.

ONE BAY OF X-BRIDGING (ANGLE 1 1/2"x 1 1/2" x 7/64") SHALL BE PROVIDED AT EACH END OF ALL BRIDGING ROWS UNLESS NOTED OTHERWISE ON PLANS. BRIDGING SHALL BE PROVIDED BY JOIST SUPPLIER AND IS IN ADDITION TO SJI-REQUIRED BRIDGING.

ALL MECHANICAL EQUIPMENT SUSPENDED FROM OR RESTED ON BAR JOISTS AT POINT LOCATIONS SHALL BE DONE AT A PANEL POINT LOCATION OF THE JOIST. THE STEEL SUPPLIER SHALL PROVIDE ADDITIONAL 1 1/2 x 1 1/2 x 3/16 ANGLES (EACH SIDE OF JOIST WEB) FROM THE POINT OF LOADING TO THE NEAREST PANEL POINT AT LOCATIONS WHERE CONCENTRATED LOADS OCCUR MORE THAN 3" OFF OF PANEL POINTS.

ALL ROOF JOISTS (AND JOIST CONNECTIONS) BEARING ON ROOF EDGE BEAMS SHALL BE DESIGNED TO TRANSFER AN ASD-FACTORED LATERAL AXIAL FORCE PARALLEL TO JOIST OF 1500 POUNDS (DUE TO WIND ON EXTERIOR WALL) FROM THE TOP OF THE EDGE BEAM TO THE ROOF DECK DIAPHRAGM.

ALL ATTACHMENTS MADE TO JOISTS SHALL BE MADE IN A CONCENTRIC MANNER SUCH THAT TWISTING IS NOT INDUCED INTO THE JOIST. (E.G. ONE-SIDED CLAMP CONNECTIONS ARE NOT ACCEPTABLE).

FOR JOIST SUPPORT OF MEP PIPES 4" IN DIAMETER OR GREATER RUNNING PERPENDICULAR TO JOISTS, PROVIDE PIPE SUPPORT ATTACHMENTS AT EVERY JOISTS ALONG THE PIPE RUN.

FOR JOIST SUPPORT OF MEP PIPES 4" IN DIAMETER OR GREATER RUNNING PARALLEL TO JOISTS, PROVIDE A UNISTRUT TYPE TRAPEZE HANGER ASSEMBLY WHICH ENGAGES A MINIMUM OF TWO JOISTS AT EACH SUPPORT LOCATION. PROVIDE SUPPORTS FOR PIPES AT 48" ON CENTER MAXIMUM SPACING ALONG EACH JOIST.

I. METAL DECKING

ALL METAL DECK SHALL BE FABRICATED AND ERECTED AS PER THE STEEL DECK INSTITUTE'S STANDARDS AND THE MANUFACTURER'S SPECIFICATIONS.

SEE THE "METAL DECKING REQUIREMENTS" TABLE FOR DESCRIPTION OF METAL DECKING.

PUDDLE WELDS (IF SPECIFIED) THAT BURN THROUGH DECKING ARE NOT ACCEPTABLE, AND SHALL BE REPAIRED.

ALL FLOOR AND ROOF OPENINGS AND OTHER SUCH REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AT ALL ROOF DECK RIDGES, VALLEYS, OR DECK DIRECTION CHANGES, PROVIDE CONTINUOUS 20 GAGE X 9" WIDE PLATE (WITH 4-1/2" LONG LEGS AT RIDGES AND VALLEYS). FASTEN EACH SIDE OF PLATE TO EACH DECK WITH #12 TEK SCREWS AT 6" O.C.

AT ALL ROOF DECK RIDGES, VALLEYS, OR DECK DIRECTION CHANGES, PROVIDE CONTINUOUS 20 GAGE X 9" WIDE PLATE (WITH 4-1/2" LONG LEGS AT RIDGES AND VALLEYS). FASTEN EACH SIDE OF PLATE TO EACH DECK WITH #12 TEK SCREWS AT 6" O.C.

J. POST-INSTALLED ANCHORS

IF SPECIFIC POST-INSTALLED ANCHOR IS NOT INDICATED ON DRAWINGS, THEN THE FOLLOWING POST-INSTALLED ANCHORS OR ADHESIVE SHALL BE USED FOR THIS PROJECT UNLESS EQUAL SUBSTITUTIONS ARE SUBMITTED AND APPROVED.

EXPANSION ANCHORS
- STRONG BOLT 2 BY SIMPSON STRONG TIE
- KWIK BOLT-TZ BY HILTI
- DEWALT STUD SD1

CONCRETE OR MASONRY SCREWS
- TITEN TURBO BY SIMPSON STRONG TIE
- DEWALT ULTRACON+
- KWIK-CON II BY HILTI

EPOXY ADHESIVE
- SET-3G BY SIMPSON STRONG TIE
- HIT-RE 500v3 BY HILTI
- DEWALT PURE 220+

HEAVY DUTY SCREW ANCHORS
- TITEN HD BY SIMPSON STRONG-TIE
- KH-EZ BY HILTI
- DEWALT SCREW BOLT+

ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED WITH STRICT ADHERENCE TO THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

FOR ALL POST INSTALLED ANCHOR APPLICATIONS, HOLES SHALL BE DRILLED WITH A HAMMER DRILL, U.N.O.

ALL DRILLED HOLES FOR ADHESIVE ANCHORS SHALL BE BRUSHED AND BLOWN CLEAN WITH COMPRESSED AIR AS SPECIFIED BY THE MANUFACTURER.

ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, U.N.O.

DO NOT INSTALL POST-INSTALLED ANCHORS INTO NEW CONCRETE UNTIL DESIGN 28-DAY COMPRESSIVE STRENGTH HAS BEEN ACHIEVED AND IN NO CASE LESS THAN 7 DAYS.

ALL POST-INSTALLED ANCHORS AND ACCESSORIES EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED (OR HAVE APPROVED EQUAL CORROSION RESISTANCE).

K. COLD-FORMED METAL FRAMING

COLD-FORMED METAL FRAMING IS A DELEGATED DESIGN. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION. THE NOTES BELOW ONLY APPLY TO ELEMENTS WITHIN THE SCOPE INDICATED BY SPECIFICATION 05 4000.

COLD-FORMED METAL FRAMING MEMBER SIZING DESIGNATIONS ARE PER THE NOMENCLATURE ESTABLISHED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). SEE THE FOLLOWING EXAMPLE:

800S200-43

800 = MEMBER DEPTH TO TWO DECIMAL PLACES = 8.00"
S = MEMBER TYPE, STUD OR JOIST
200 = FLANGE WIDTH TO TWO DECIMAL PLACES = 2.00"
43 = MINIMUM DESIGN THICKNESS OF THE METAL IN MILS

ALL COLD-FORMED METAL FRAMING MEMBERS SHALL HAVE MINIMUM THICKNESS OF 43 MILS, U.N.O.

PROVIDE CONTINUOUS 12 GAGE BENT PLATE (2"x2" MIN. U.N.O.) AROUND PERIMETER OF ROOF FORMED BY PRE-ENGINEERED ROOF TRUSSES AND COLD-FORMED METAL FRAMING ROOF JOISTS INCLUDING MECH. PENETRATIONS, ROOF EDGES, ETC.

PROVIDE BRIDGING AND END BLOCKING FOR ALL JOIST SPANS. SIZE AND SPACING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL CONDUIT AND OTHER PENETRATIONS IN WALL STUDS SHALL BE MADE THRU THE TYPICAL OVAL PUNCHOUT IN THE STUD. IF LARGER OPENINGS ARE REQUIRED, THE GENERAL CONTRACTOR SHALL COORDINATE BETWEEN MECHANICAL/ELECTRICAL SUBCONTRACTORS AND THE COLD-FORMED METAL FRAMING ENGINEER TO ENSURE THAT THE OPENINGS ARE PROPERLY CONSIDERED IN DESIGN.

COLD-FORMED METAL FRAMING SUPPLIER SHALL DESIGN AND PROVIDE STUD FRAMING AS REQUIRED TO SUPPORT PRE-MANUFACTURED ALUMINUM CANOPIES AT EXTERIOR, EXTERIOR WALL AND WINDOW HEADERS PER IBC REQUIREMENTS. GENERAL CONTRACTOR TO COORDINATE WITH CANOPY SUPPLIER TO PROVIDE LOADING AND ASSURE PROPER CONNECTIVITY. CONNECTION OF CANOPIES TO COLD-FORMED METAL FRAMING SHALL BE SHOWN ON BOTH ALUMINUM CANOPY SHOP DRAWINGS AND COLD-FORMED METAL FRAMING SHOP DRAWINGS.

NO SPLICES IN STUDS, JOISTS, BEAMS, HEADERS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH REVISION TO THE ORIGINAL DESIGN.

ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS. STUD ENDS MUST SEAT TIGHTLY INTO TRACKS IN ALL BEARING APPLICATIONS.

L. NOTICE

THE USE OF REPRODUCTION OF THESE CONTRACT DRAWINGS BY THE CONTRACTOR, SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARED SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY BE PRESENT HEREON.

IN THE EVENT OF CONFLICTING OR DIFFERING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS THAT HAVE NOT BEEN CLARIFIED OR CHANGED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY, GREATER QUANTITY, OR MORE STRINGENT UNLESS DIRECTED OTHERWISE BY ARCHITECT/ENGINEER.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, EXCEPT WHERE SPECIFIC REQUIREMENTS ARE PROVIDED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES OF CONSTRUCTION.

FIELD VERIFICATIONS

CONTRACTOR TO FIELD MEASURE ALL NEEDED DIMENSIONS PRIOR TO ORDERING MATERIAL.

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DETAILS, GEOMETRY, DIMENSIONS, AND ELEVATIONS PRIOR TO ORDERING/FABRICATION OF MATERIALS. CONTACT ARCHITECT AND ENGINEER IMMEDIATELY IF ANY DIMENSIONS, DETAILS, OR ELEVATIONS ARE NOT FOUND TO MATCH THOSE SHOWN ON THE PLANS.

ABBREVIATIONS

@ ---------- AT
A/E ---------- ARCHITECT/ENGINEER
A.F.F. ---------- ABOVE FINISHED FLOOR
ARCH. ---------- ARCHITECTURAL
BF ---------- BRACED FRAME
BM. ---------- BEAM
B.O.C. ---------- BEAM ON COLUMN
B.O.S. ---------- BOTTOM OF STEEL
BOT. ---------- BOTTOM
BTM. ---------- BOTTOM
B/W ---------- BETWEEN
BTWN. ---------- BETWEEN
C.F.M.F. OR CFMF --- COLD-FORMED METAL FRAMING
C.I.P. ---------- CAST-IN-PLACE
C.G OR CG ---------- CENTER OF GRAVITY
CJP ---------- COMPLETE JOINT PENETRATION
C.L. OR CL ---------- CENTER LINE
C.O.B. ---------- COLUMN ON BEAM
COL. ---------- COLUMN
CONT. ---------- CONTINUOUS
CONNX. ---------- CONNECTION
EL. ---------- ELEVATION
ELEV.---------- ELEVATION
ELEC. ---------- ELECTRICAL
E.O.A. ---------- EDGE OF ANGLE
E.O.R. ---------- ENGINEER OF RECORD
E.O.S. ---------- EDGE OF SLAB
EXIST. ---------- EXISTING
F.F. ---------- FINISH FLOOR
FIN. FLR. ---------- FINISH FLOOR
GA. ---------- GAGE
GC ---------- GENERAL CONTRACTOR
GL ----------GLUE-LAMINATED
GR. BM. ---------- GRADE BEAM
HI ---------- DETAIL APPLIES HIGH
H.S.A. OR HSA --------HEADED STUD ANCHOR
H.S.A.S.---------- HEADED STUD ANCHORS
HSS ----------HOLLOW STRUCTURAL SECTION
LO ---------- DETAIL APPLIES LOW
M.B.S.----------METAL BUILDING SUPPLIER
MECH. ---------- MECHANICAL
MEP---------- MECHANICAL, ELECTRICAL, PLUMBING
O.C. ---------- ON CENTER
O.C.E.W. ---------- ON CENTER EACH WAY
OPP. ---------- OPPOSITE
PEMBS ---------- PRE-ENGINEERED METAL BUILDING SUPPLIER
PL. ----------PLATE
P.T. ---------- POST TENSION OR POST-TENSIONED
POST-TENS ---------- POST TENSION OR POST-TENSIONED
REINF. ---------- REINFORCEMENT
RTU ---------- ROOF TOP UNIT
SIM. ---------- SIMILAR
STR. ---------- STRENGTH
T.O. ---------- TOP OF
T.O.C. ---------- TOP OF CONCRETE
T.O.J. ---------- TOP OF JOIST
T.O.S. ----------TOP OF SLAB
U.N.O. ----------UNLESS NOTED OTHERWISE
V.O.J. ----------VERIFY ON JOBSITE
W/ ---------- WITH
WF ---------- WIDE FLANGE
WWF ----------WELDED WIRE FABRIC

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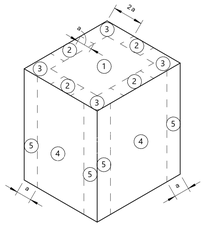
COMPONENTS & CLADDING DESIGN WIND PRESSURES (PSF)

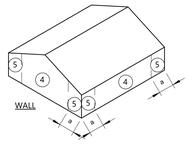
ZONE / EWA (SF)	ROOF							WALLS				OVERHANG					PARAPET					
	POSITIVE	NEGATIVE						POSITIVE		NEGATIVE		POSITIVE		NEGATIVE			POSITIVE				NEGATIVE	
	ALL ZONES	1	1'	2	2'	3	3'	4	5	4	5	2	3	1 & 1'	2	3	2	2'	3	3'	1&2	3
≤10	17.6	-69.0	-39.6	-91.0	-67.0	-124.0	-104.6	40.6	40.6	-44.0	-54.2	46.2	46.2	-62.4	-84.4	-117.4	85.5	97.2	104.9	136.0	-73.4	-83.9
20	16.5	-64.4	-39.6	-95.2	-65.8	-112.3	-93.3	38.8	38.8	-42.2	-50.6	44.5	44.5	-61.3	-76.6	-103.8	82.5	94.1	96.0	122.5	-69.7	-78.4
50	16.0	-58.4	-39.6	-77.4	-64.3	-96.9	-78.3	36.5	36.5	-39.8	-45.8	42.2	42.2	-59.8	-66.3	-85.7	78.5	90.1	84.3	104.5	-64.8	-71.0
100	16.0	-53.9	-39.6	-71.6	-63.2	-95.2	-67.0	34.7	34.7	-38.0	-42.2	40.4	40.4	-58.7	-58.5	-72.1	75.4	87.1	75.4	91.0	-61.1	-65.4
200	16.0	-49.3	-34.1	-65.7	-63.2	-73.5	-67.0	32.9	32.9	-36.2	-38.6	38.6	38.6	-49.2	-50.7	-58.4	73.6	85.2	73.6	89.1	-57.4	-59.8
≥500	16.0	-43.3	-26.8	-58.0	-63.2	-58.0	-67.0	30.5	30.5	-33.9	-33.9	36.3	36.3	-36.7	-40.4	-40.4	71.1	82.8	71.1	86.7	-52.5	-52.5

NOTES:

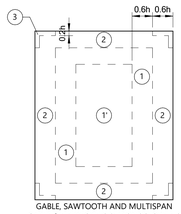
1. EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
2. FOR ZONE DEFINITIONS, SEE ASCE 7-16 FIGURES 30.4 – (AS APPLICABLE).
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACE RESPECTIVELY.
4. EDGE WIDTH DIMENSION "a" = 8.0 FT.
5. LINEAR INTERPOLATION MAY BE USED BETWEEN EWA VALUES PROVIDED IN THE ABOVE TABLE.
6. PRESSURES IN THE ABOVE TABLE ARE ULTIMATE LEVEL PRESSURES BASED ON LATERAL DESIGN WIND PARAMETERS IN GENERAL NOTES.



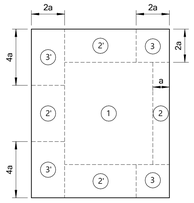
ROOFS w/ θ < 10°
and all walls
h > 60'



Walls h ≤ 60'
& alt design h < 90'



GABLE, SAWTOOTH AND MULTISPAN
GABLE θ ≤ 7 DEGREES & MONOSLOPE ≤ 3 DEGREES
H ≤ 60' & ALT DESIGN H<90'



MONOSLOPE ROOFS
3° < θ ≤ 10°
H ≤ 60' & ALT DESIGN H<90'

CONCRETE MIX REQUIREMENTS

USAGE	AGGREGATE	MIN. CEMENT (lb/yd³)	SLUMP (inches)	7 DAY STR. (psi)	28 DAY STR. (psi)	WATER REDUCER	REMARKS
PILE CAPS	(1)	583	4	3500	5000	(B)	
GRADE BEAMS	(1)	489	4	2000	3000	(B)	
PEDESTALS	(1)	489	4	2000	3000	(B)	
SLAB	(1)	545	7	2700	4000	(A)	
DRY BOTTOMS					1500		
ALL OTHERS	(1)	545	7	2700	4000	(A)	

(1) REGULAR SAND AND GRAVEL (145 pcf)

(A) MID-RANGE WATER REDUCER

(B) CONTRACTOR'S OPTION - IF WATER REDUCER IS USED, THEN SLUMP SHALL BE 7".

NOTES:

THE SLUMP IN THE TABLE ABOVE IS GIVEN AT POINT OF PLACEMENT. THE ALLOWABLE TOLERANCE FOR SLUMP IS PLUS OR MINUS ONE INCH FROM THE VALUES GIVEN IN THE TABLE.

IF SUPER PLASTICIZER IS USED, THE SLUMP SHALL BE 3" PRIOR TO ADDITION OF THE SUPER PLASTICIZER. DO NOT USE SUPER PLASTICIZER IN SLABS.

CONCRETE NOT MEETING THE SPECIFIED SEVEN DAY STRENGTH SHALL EITHER BE REMOVED OR CONSTRUCTION MUST BE STOPPED IN THE QUESTIONABLE AREA UNTIL THE 28 DAY TEST VALUES HAVE BEEN APPROVED.

SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

REFERENCE SPECIFICATION SECTION 03 3000- FOR PROPORTIONING AND DESIGN OF MIXES.

REFERENCE SPECIFICATION SECTION 04 2200- FOR PROPORTIONING AND DESIGN OF MIXES FOR CMU FILL ONLY.

REBAR LAP SPLICE REQUIREMENTS (MIN.)

LOCATION	BEAMS AND FOUNDATIONS		WALLS AND SLABS	
BAR \ f'c	3000 PSI	4000 PSI	3000 PSI	4000 PSI
#3	22"	19"	16"	16"
#4	29"	25"	17"	16"
#5	36"	31"	26"	22"
#6	36"	36"	36"	36"
#7	42"	42"	42"	42"
#8	42"	42"	42"	42"

GENERAL NOTES:

LAP SPLICE LENGTHS ABOVE APPLY TO ALL REINFORCING BARS FOR THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS.

LAP SPLICE LENGTHS IN TABLE ABOVE DO NOT PERTAIN TO REINFORCING IN MASONRY CONSTRUCTION. REFER TO GENERAL NOTES FOR SPLICE REQUIREMENTS IN MASONRY CONSTRUCTION.

ALL LAP SPLICES PROVIDED ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING BARS IN TENSION. SPLICES FOR WALL AND SLAB BARS ARE BASED ON A MINIMUM OF 1" CLEAR COVER.

FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

LAP SPLICES FOR GRADE BEAM TOP BARS SHALL BE PLACED IN THE CENTER OF THE SPAN BETWEEN DRILLED SHAFTS (OR PILES). LAP SPLICES FOR GRADE BEAM BOTTOM BARS SHALL BE PLACED DIRECTLY ABOVE A DRILLED SHAFT (OR PILE).

METAL DECKING REQUIREMENTS

TYPE	DECKING	FASTENER LAYOUT		FASTENER METHOD		REMARKS
		SUPPORT	SIDE LAPS	SUPPORT	SIDE LAPS	
ROOF	1.5B 22 GA.	36/6	4	(1)	(2)	A B

(1) #12 TEK SCREWS

(2) #10 TEK SCREWS

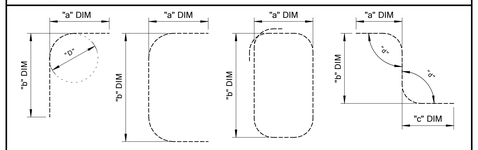
A ATTACH DECK TO PERIMETER ANGLES/SUPPORTS AT 6" O.C. MAX.

B ATTACH DECK TO PERIMETER ANGLES/SUPPORTS AND 6' IN FROM EDGE OF ROOF AT 4" O.C. MAXIMUM. ALSO ATTACH DECK IN 8' x 8' CORNERS OF BUILDING @ 4" O.C. MAXIMUM.

NOTES:

- DO NOT USE WELDING FOR ROOF DECK ATTACHMENT.
- INCREASE SIZE OF SCREWS IF REQUIRED FOR ATTACHMENT TO THICKER STEEL ELEMENTS.

STANDARD BAR BEND DIAGRAMS



L BAR | U BAR | TIES AND HOOPS | Z BAR ("d" = 90 DEGREES IF NOT PROVIDED)

NOTES:

SEE DETAILS AND KEYNOTES FOR DIMENSIONS OF ALL BARS AND TIES.

WHERE "a" AND "b" DIMENSIONS ARE NOT GIVEN, BASE DIMENSIONS ON CLEAR COVER DIMENSIONS FROM OUTER EDGE OF CONCRETE.

UNLESS NOTED OTHERWISE, ALL BAR BEND DIAMETERS ("D") SHALL BE IN ACCORDANCE WITH LATEST VERSION OF ACI 318.

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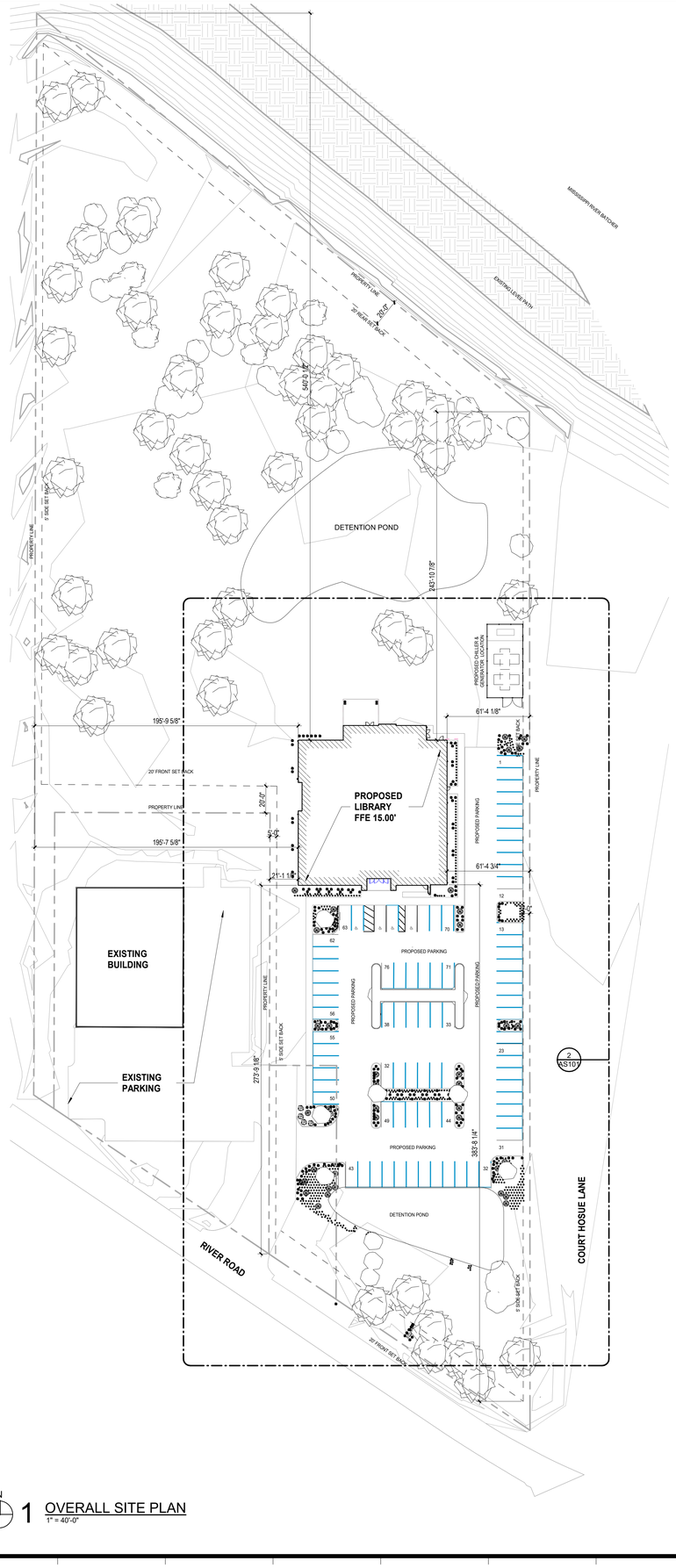
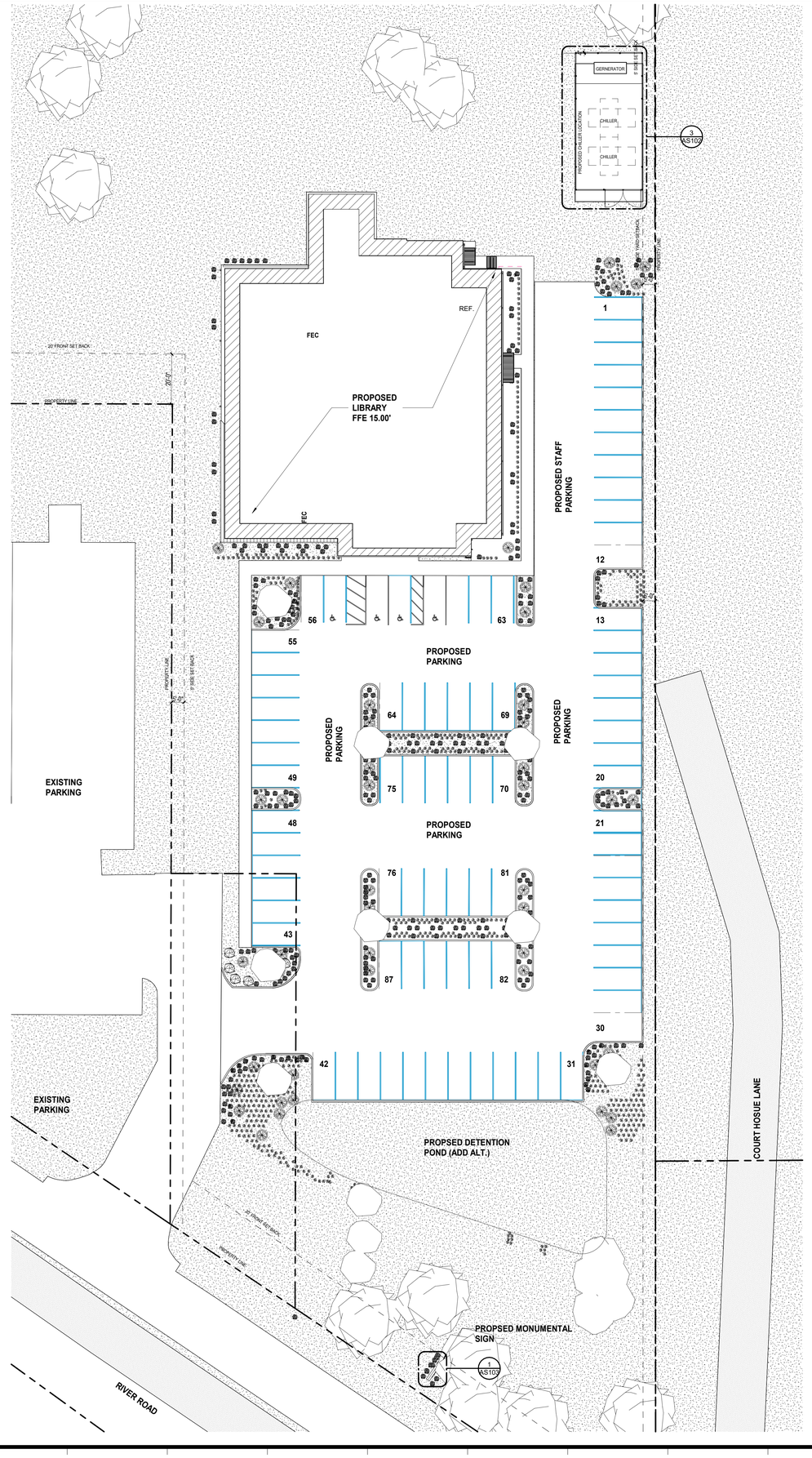


N

1 OVERALL SITE PLAN
1" = 40'-0"



2 ENLARGED SITE PLAN
1" = 20'-0"

SITE PLAN GENERAL NOTES

1. REFER TO ALL DISCIPLINES DOCUMENTATION FOR ADDITIONAL INFORMATION
2. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION
3. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION

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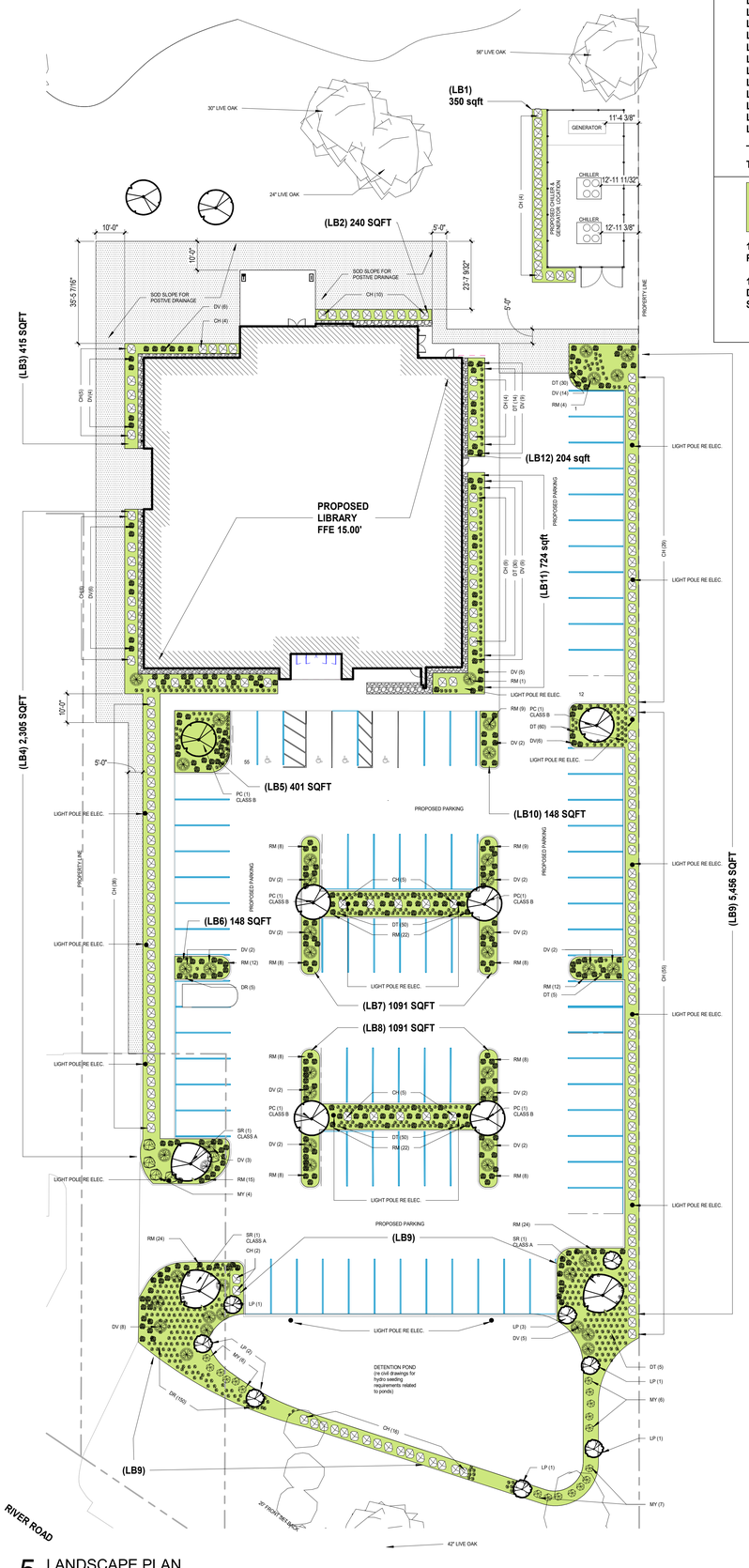


5 LANDSCAPE PLAN
1" = 20'-0"

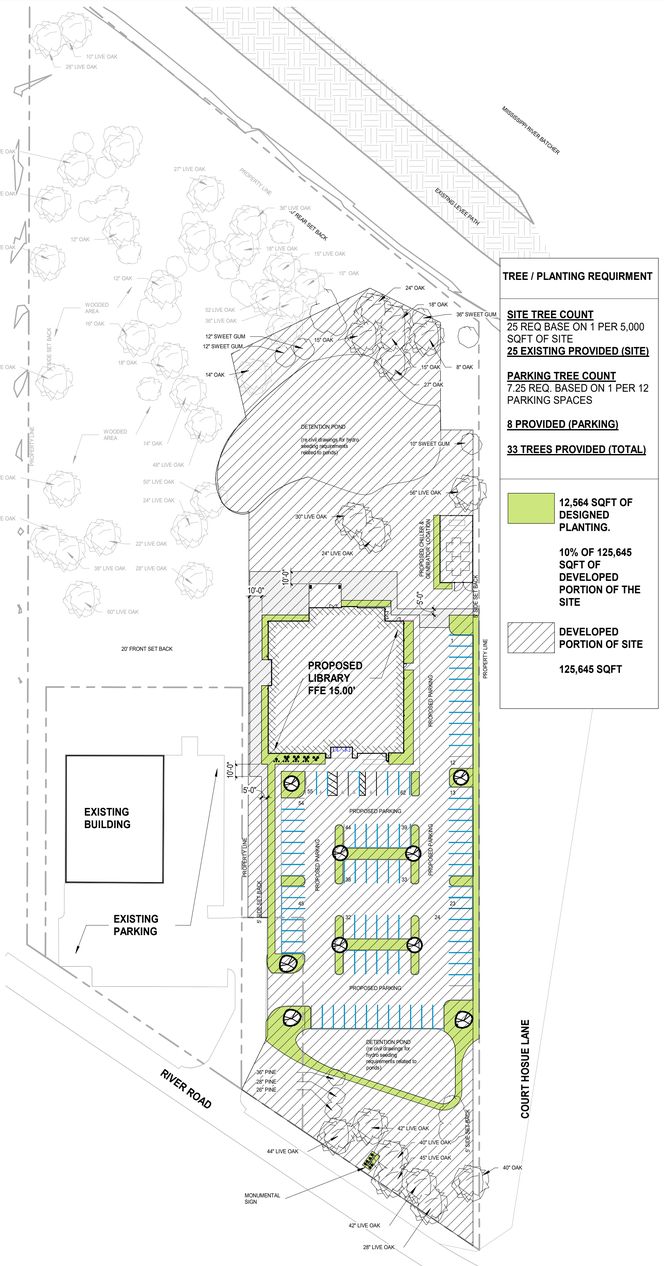
DESIGNED LANDSCAPING BEDS

LB1	350 SQFT
LB2	240 SQFT
LB3	415 SQFT
LB4	2305 SQFT
LB5	401 SQFT
LB6	148 SQFT
LB7	1,091 SQFT
LB8	1,091 SQFT
LB9	5456 SQFT
LB10	148 SQFT
LB11	724 SQFT
LB12	204 SQFT

TOTAL SQFT 12,573 SQFT

12,564 SQFT OF DESIGNED PLANTING.

10% OF 121,645 SQFT OF DEVELOPED PORTION OF THE SITE



4 EXISTING TREES / LANDSCAPE PERCENTAGE
1" = 50'-0"

TREE / PLANTING REQUIRMENT

SITE TREE COUNT
25 REQ BASE ON 1 PER 5,000 SQFT OF SITE
25 EXISTING PROVIDED (SITE)

PARKING TREE COUNT
7.25 REQ. BASED ON 1 PER 12 PARKING SPACES

8 PROVIDED (PARKING)

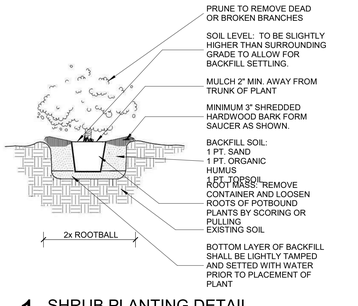
33 TREES PROVIDED (TOTAL)

12,564 SQFT OF DESIGNED PLANTING.

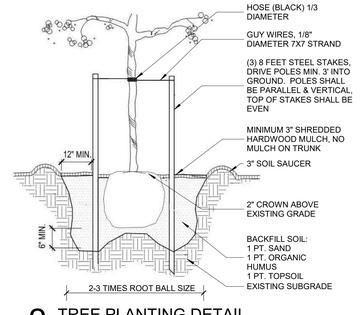
10% OF 125,645 SQFT OF DEVELOPED PORTION OF THE SITE

DEVELOPED PORTION OF SITE

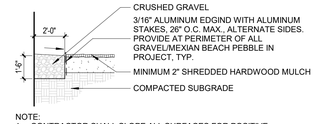
125,645 SQFT



1 SHRUB PLANTING DETAIL
12" = 1'-0"



2 TREE PLANTING DETAIL
12" = 1'-0"



NOTE:
1. CONTRACTOR SHALL SLOPE ALL SURFACES FOR POSITIVE DRAINAGE.
2. THERE SHALL BE NO STANDING WATER ON SITE.
3. CONNECTIONS SHOWN ON CIVIL DRAINAGE PLANS
4. GRAVEL STRIP TO BE LOCATED AS SHOWN IN PLANS
5. TOP LAYER OF MULCH MAY NOT BE REQUIRE AT ALL CONDITIONS. CONFIRM WITH PLANS FOR APPROPRIATE TOP LAYER AND SUB LAYERS AS SPECIFIED.

6 GRAVEL DETAIL
1/4" = 1'-0"

3 GROUND COVER DETAIL
12" = 1'-0"

GENERAL NOTES AND SPECIFICATIONS

GENERAL NOTES:
1. Contractor shall coordinate and be in compliance with all state and local municipalities as warranted.
2. The Contractor is responsible for verifying and/or obtaining all required permits and approvals prior to commencing construction.
3. Construction staging, trash and debris containers, and parking shall occur away from all tree roots.
4. Provide one year warranty for trees, shrubs, ground cover and plants.
5. Reference Civil Drawing for areas to by hydro seeding specific to drainage and areas that have been disturbed.
6. All areas disturbed areas to receive hydro seeing unless noted otherwise.

LANDSCAPE NOTES:
1. All landscape areas are to receive a minimum of 4" of topsoil.
2. All plant material shall be healthy, vigorous, and free of pests and disease.
3. All plant material shall be container grown or balled and bur lapped.
4. All trees shall have a straight trunk and full head and meet all requirements specified.
5. All materials are subject to the approval of the Architect before, during, and after installation.
6. All trees must be guyed or staked immediately after lawn sodding operations and prior to acceptance. Stake deciduous trees 3" caliper and less, and guy when greater than 3". Stake evergreen trees under 8 feet tall, and guy when taller than 8 feet.
   A. Strapping: ArborTie, a 3/4" wide, flat woven polypropylene strap, rounded weave and lock stitch with 900 lb tensile strength to resist fierce winds while allowing sway and preventing girdling.
   B. Staking: studded metal "T" post, 6' height, painted green when staking trees.
   C. Guying: wood stakes, driven 3" below grade to tie strapping with cinch ties to adjust tension.
   D. Removal within One Year: Landscape Contractor shall remove tree staking and strapping once established, but in NO case shall material remain on trees more than one year. The removal of staking and strapping shall be conducted at NO addition cost to the Owner.
7. All single trunk trees shall have a minimum (2) two inch caliper immediately after planting. Single trunk trees must measure a minimum of (8) eight feet tall immediately after planting. All tree heights shall be measured from the top of the root ball to the tip of the highest branch.
8. Install Treegator slow release watering bags on each tree immediately after planting. Landscape Contractor responsible for filling bags (10 gal./caliper inch) each week until final acceptance of project by Owner/Architect.
   A. Water - Watering of plant material shall be with drinkable water. Hoses or other methods of transportation or deliver shall be furnished by the Landscape Contractor at their expense.
9. All planting areas shall be completely mulched as specified. Shredded hardwood, well composted, stable, and weed free organic matter, pH range of 5.5-8.0; moisture content 35 to 55 percent by weight; 100 percent passing through 1.5" sieve; soluable salt content of 2 to 5 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings. Pine bark and pine straw **WILL NOT** be accepted.
10. Shrub quality standards: shrubs selected for planting shall meet the min requirements provided in the American Standard for Nursery Stock (ANSI Z60.1), latest edition as published by the American Nursery and Landscape Association. Shrubs shall have a minimum (3) three gallon well-rooted container stock.
11. Ground cover and vines quality standards: Ground Cover (other than turf grass) shall be minimum of (4) four inch well-rooted container stock spaced no more than (8) eight inches on center. Well rooted 2.5 inch container stock may be substituted and spaced (6) six inches on center. Vines and ground cover plants should show a number of vigorous woody runners or a well-developed crown.
12. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. Locations of existing buried utility lines shown on the plans are based upon best available information and are to be considered approximate. It shall be the responsibility of the contractor 1) to verify the locations of utility lines and adjacent to the work area 2) to protect of all utility lines during the construction period 3) to repair any and all damage to utilities, structures, site appurtenances, etc which occurs as a result of the construction.
13. The contractor shall be responsible for verifying all quantities shown on these plans before pricing the work.
14. Contractor shall be responsible for delivery schedule and protection between delivery and planting per specifications to maintain healthy plant conditions.
15. Any plant material which is diseased, distressed, dead, or rejected (prior to substantial completion) shall be promptly removed from the site and replaced with material of the same species, quantity, and size and meeting all plant list specifications.
16. After being dug at the nursery source, all trees in leaf shall be acclimated for (2) two weeks under a mist system prior to installation.
17. Standards set forth in "American Standard for Nursery Stock" represent guideline specifications only and shall constitute minimum quality requirements for plant material.
18. Where shown on the plans and details, planting beds are to be completely covered with a hardwood mulch from a local source harvested in a sustainable manner to a minimum depth of (4) four inches.
19. Weed mat is required in landscaped islands. Weed barrier fabric shall be woven polypropylene, needle-punched fabric with reinforced fiber for extra moisture control, 4.1 oz./sq. yd., 20-year commercial grade fabric as a weed barrier in beds located between bed preparation panting soil and top-dress mulch.
20. All plant material quantities shown are approximate. Contractor shall be responsible for complete coverage of all planting beds at spacing shown.
21. The contractor is encouraged to complete temporary or permanent seeding or sodding in stages for soil stabilization as areas are completed after grading.
22. Quantities are given for informational purposes only. The contractor shall be responsible for performing an independent take-off to determine quantities that meet the design intent.
23. All questions shall be forwarded to the general contractor in the form of a RFI in order for Architect to provide a response. Verbal comments by Architect will not be considered binding and must be offered in writing.
24. All planting islands shall be back-filled with fertile topsoil.
25. Finish grade of sod panels must be flush with top of curb or edge of pavement in a straight, uniform pattern free from all debris.
26. Any variance from specified plan material's size (container, caliper, height, and spread) and species will be rejected without the prior written authorization from the Architect.
27. The contractor shall submit photographs of plant material to the Architect prior to selection and delivery. The Architect reserves the right to pre-tag trees at nursery site prior to delivery, but will not relinquish the right to reject any plant material that is damaged or does not meet specifications.
28. All areas shall receive a finish grade that allows for positive drainage.
   A. Turf Area Preparation:
      a. Rough Grade: It shall be the general Contractor / site contractor responsibility to rough grade the site to within 2 inches of finished grades for turf grass areas as shown on the grading plan.
      b. Place Topsoil: Landscape contractor shall add, mix, spread, grade, and had-rake topsoil for all turf grass areas (sod, spring, and/or seed) to a depth of 2 inches.
      c. Provide Final Grade: It shall be the Landscape Contractor's responsibility to provide a finished, hand-raked ground plane to the elevations shown on the grading plan and to remove ANY debris (rocks, soil clumps, clay or Construction debris) larger than 1/2" in size.
29. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, soils, debris and equipment. Repair damage resulting from planting operations.

EXISTING TREE LEGEND

EXISTING LIVE OAK TO REMAIN WITH A DIAMETER OF 6" OR GREATER ALL TREES NOTES ON PLAN WITH DIA.
TOTAL COUNT: 47

EXISTING SWEET GUM TREES

EXISTING TALLOW TREES

LANDSCAPING STATISTICS

SPECIFIC INTERIOR LANDSCAPE REQUIREMENTS:

1. 3.D (1) TREE FOR EVERY 5,000 SQFT OF SITE AREA REQUIRED
   A. 210,263 SQFT, 42.05 TREES REQUIRED
      a. 47 EXISTING HEALTHY OAKS & LIVE OAKS TO REMAIN THAT EXCED THE REQUIRED 6" DIA. FOR EXISTING TREES.
      b. PROVIDING ADDITIONAL 8 TREES AS REQUIRED FOR PARKING
      c. PROVIDED TREE COUNT FOR THE ENTIRE SITE EXCEEDS THE MIN. REQUIRMENT BY 13 TREES.
2. 3.F - (1) TREE FOR EVERY (8) PARKING SPACES PROVIDED.
   A. 87 SPACES PROVIDED REQUIRES 7.25 TREES.
      a. PROVIDING 8 TREES
         - 3 CLASS A
         - 5 CLASS B

LEGEND

MULCH BED, MATERIAL AND THICKNESS AS DETAILED AND SPECIFIED.

BERMUDA SOD

CRUSHED GRAVEL

CLASS (A) TREE (2 INCH MINIMUM DBH)
(SR) OAK, SOUTHERN RED (45 GAL) (8-10' H x 4-6' W)
"QUERCUS FALCATA"

CLASS (B) TREE (2" CALIPER MIN - ABH)
(PC) PISTACIA CHINENSIS (45 GAL) (10-12' H x 5-6' W)
"CHINEESE PISTACHIO"

(CH) - ILEX CORNUTA 'CARISSA'
"CARISSA HOLLY" (3 GAL) (15-18" H x 15-18" W)
FULL POT, WELL ROOTED

(DV) DISTYLIUM VINTAGE JADE
"VINTAGE JADE DISTYLIUM" (3 GAL) (15-18" H x 9-12" W)
FULL POT, WELL ROOTED

(MY) MISCANTHUS SINENSIS 'YAKUSHIMA'
"DWARF MAIDEN GRASS" (3 GAL) (12-15" H x 12-15" W)
FULL POT, WELL ROOTED

(RM) ROSA x 'MEIDRIFORA'
"CORAL DRIFT ROSE" (3 GAL) (18-22" H x 6-8" W)
FULL POT, WELL ROOTED

(DT) - DIANELLA TASMANICA 'VARIEGATA'
"FLAX LILY" (1 GAL) (10-12" H x 10-12" W)
FULL POT, WELL ROOTED SPACED AT 24" ON CENTER

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LANDSCAPE PLAN

SHEET NUMBER
AS101a

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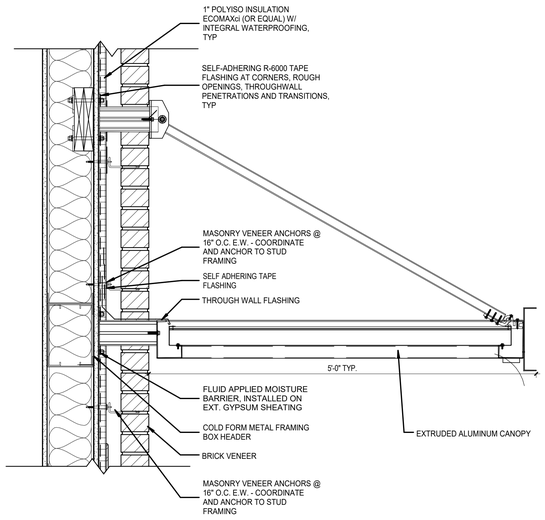
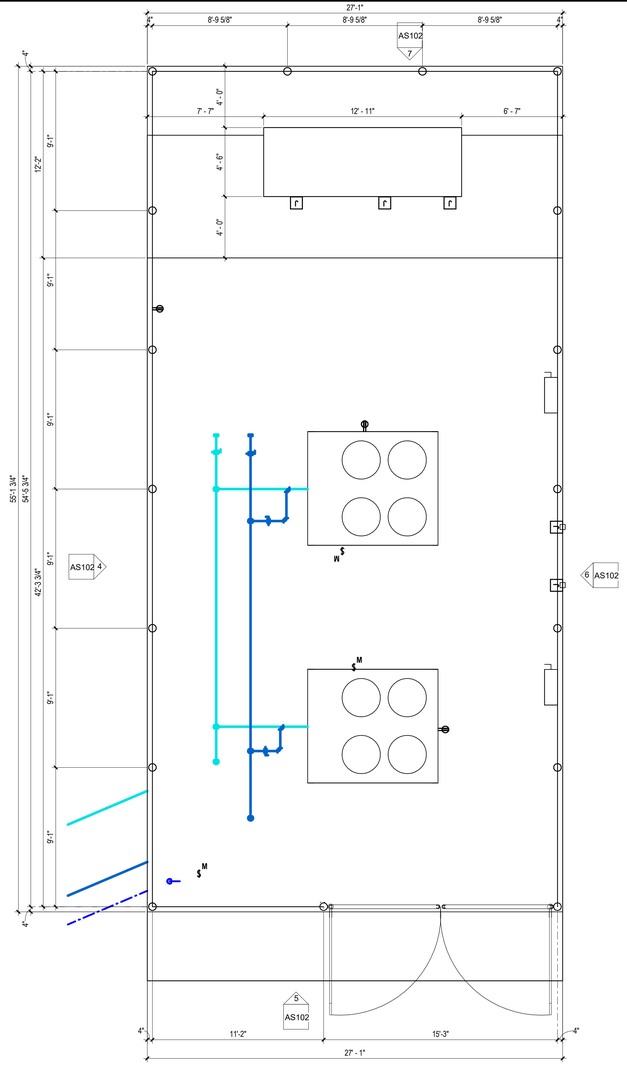
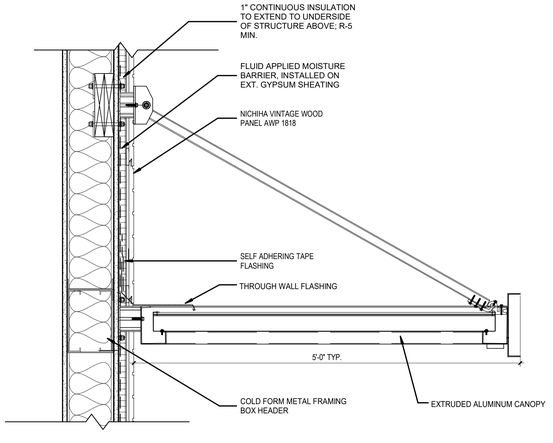


NOTE: ALL STRUCTURAL ELEMENTS AND ANCHORS FOR THE CANOPY SHALL NOT BE VISIBLE ON THE INTERIOR SIDE AND TO REMAIN IN STUD CAVITY. CONTRACTOR TO COORDINATE ACCESS PRIOR TO CLOSING WALLS.

1 CANOPY DETAIL @ BRICK VENEER
1 1/2" = 1'-0"



3 CHILLER YARD SITE PLAN (CHAIN LINK FENCE WITH PRIVACY SLATS)
1/4" = 1'-0"



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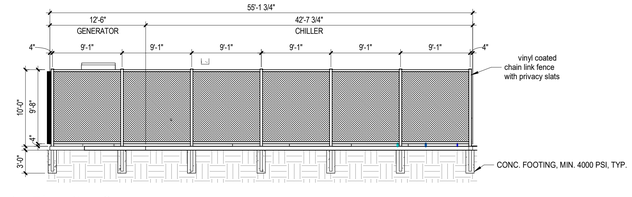
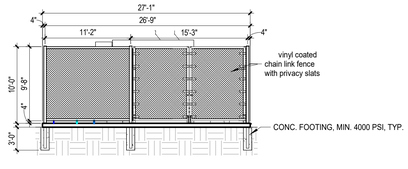
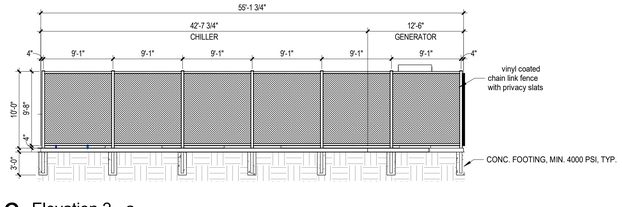
2 CANOPY DETAIL @ CEMENTITIOUS PANEL
1 1/2" = 1'-0"



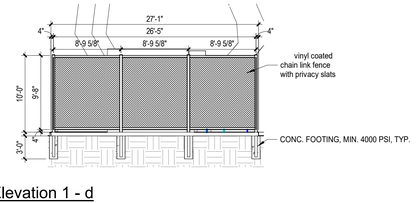
4 Elevation 2 - c
1/8" = 1'-0"



5 Elevation 1 - b
1/8" = 1'-0"



6 Elevation 2 - a
1/8" = 1'-0"



7 Elevation 1 - d
1/8" = 1'-0"

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ARCHITECTURAL SITE PLAN DETAILS

SHEET NUMBER
AS102

FLOOR PLAN NOTES

1. OVERALL FLOOR PLAN INCLUDES OVERALL BUILDING DIMENSIONS, EXTERIOR ELEVATION TAGS, BUILDING SECTIONS AND MATCHLINE INFORMATION. REFER TO ENLARGED PLANS FOR ADDITIONAL INFORMATION, DIMENSIONS, NOTES AND TAGS.

WALL PARTITION LEGEND

- EXISTING WALLS / CONSTRUCTION TO BE DEMOLISHED
- EXISTING WALLS / CONSTRUCTION TO REMAIN
- NEW WALLS / CONSTRUCTION
- SMOKE PARTITION
- ONE HOUR RATED FIRE BARRIER
- TWO HOUR RATED FIRE BARRIER
- ONE HOUR RATED FIRE/SMOKE BARRIER
- TWO HOUR RATED FIRE/SMOKE BARRIER

FLOOR PLAN LEGEND

- COLUMN GRID
- MATCHLINE / LIMIT OF WORK
- EQUIPMENT NUMBER
- SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- WALL MOUNTED FIRE EXTINGUISHER
- WINDOW, STOREFRONT CURTAIN WALL DESIGNATION
- DOOR DESIGNATION
- KEY NOTE
- PARTITION TYPE
  - SOUND ATTENUATION
  - STUD SIZE
  - PARTITION TYPE

KEYNOTES

KEYPLAN

TRUE NORTH

1 FIRST FLOOR PLAN
3/16" = 1'-0"

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OVERALL FLOOR PLAN

SHEET NUMBER
A101

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1 OVERALL DIMENSION FLOOR PLAN
3/16" = 1'-0"

FLOOR PLAN NOTES

1. OVERALL FLOOR PLAN INCLUDES OVERALL BUILDING DIMENSIONS, EXTERIOR ELEVATION TAGS, BUILDING SECTIONS AND MATCHLINE INFORMATION. REFER TO ENLARGED PLANS FOR ADDITIONAL INFORMATION, DIMENSIONS, NOTES AND TAGS.

WALL PARTITION LEGEND

- EXISTING WALLS / CONSTRUCTION TO BE DEMOLISHED
- EXISTING WALLS / CONSTRUCTION TO REMAIN
- NEW WALLS / CONSTRUCTION
- SMOKE PARTITION
- ONE HOUR RATED FIRE BARRIER
- TWO HOUR RATED FIRE BARRIER
- ONE HOUR RATED FIRE/SMOKE BARRIER
- TWO HOUR RATED FIRE/SMOKE BARRIER

FLOOR PLAN LEGEND

- 1 / A — COLUMN GRID
- MATCHLINE / LIMIT OF WORK
- 14 — EQUIPMENT NUMBER
- F.E.C. — SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- FE — WALL MOUNTED FIRE EXTINGUISHER
- A — WINDOW, STOREFRONT CURTAIN WALL DESIGNATION
- 101 — DOOR DESIGNATION
- 34 — KEY NOTE
- A65 11 — PARTITION TYPE
  - SOUND ATTENUATION
  - STUD SIZE
  - PARTITION TYPE

KEYNOTES 1

KEYPLAN

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OVERALL DIMENSIONED FLOOR PLAN

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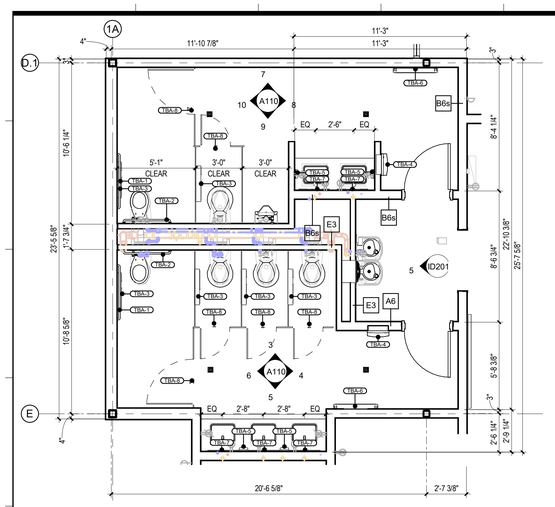
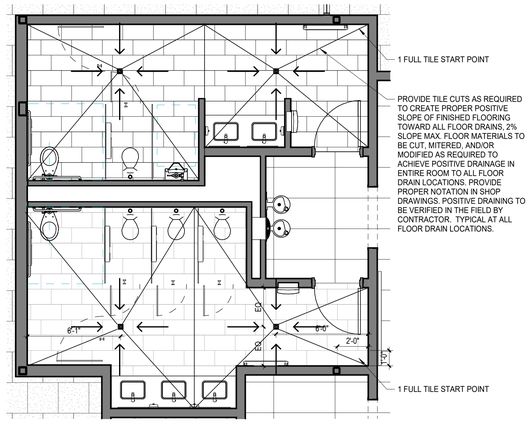
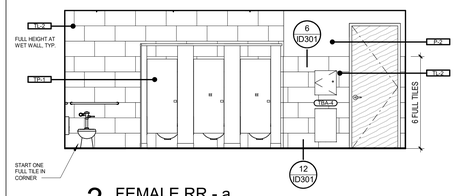


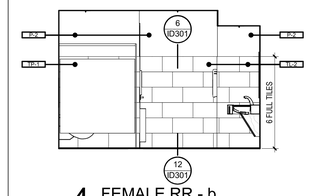
1 PUBLIC RESTROOMS
1/4" = 1'-0"



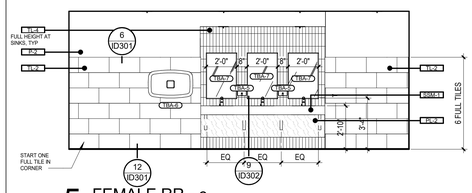
2 PUBLIC RESTROOMS - FINISH PLAN
1/4" = 1'-0"



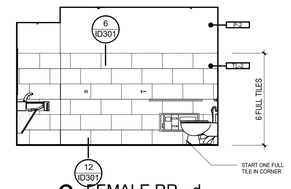
3 FEMALE RR - a
1/4" = 1'-0"



4 FEMALE RR - b
1/4" = 1'-0"



5 FEMALE RR - c
1/4" = 1'-0"



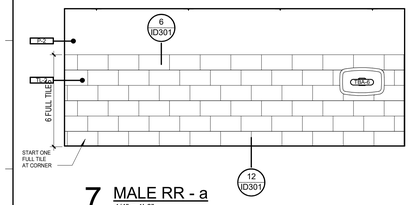
6 FEMALE RR - d
1/4" = 1'-0"

WALL PARTITION LEGEND

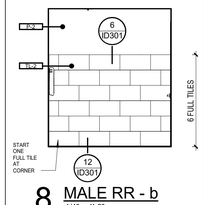
- EXISTING WALLS / CONSTRUCTION TO BE DEMOLISHED
- EXISTING WALLS / CONSTRUCTION TO REMAIN
- NEW WALLS / CONSTRUCTION
- SMOKE PARTITION
- ONE HOUR RATED FIRE BARRIER
- TWO HOUR RATED FIRE BARRIER
- ONE HOUR RATED FIRE/SMOKE BARRIER
- TWO HOUR RATED FIRE/SMOKE BARRIER

FLOOR PLAN LEGEND

- COLUMN GRID
- MATCHLINE / LIMIT OF WORK
- EQUIPMENT NUMBER
- SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- WALL MOUNTED FIRE EXTINGUISHER
- WINDOW, STOREFRONT CURTAIN WALL DESIGNATION
- DOOR DESIGNATION
- KEY NOTE
- PARTITION TYPE
  - SOUND ATTENUATION
  - STUD SIZE
  - PARTITION TYPE



7 MALE RR - a
1/4" = 1'-0"



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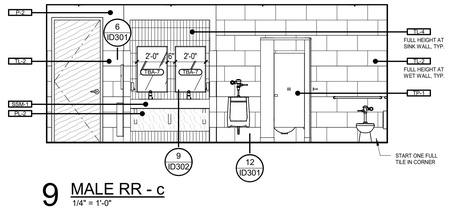
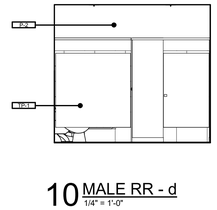
1/4" = 1'-0"



9 MALE RR - c
1/4" = 1'-0"



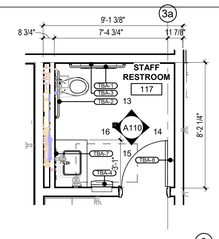
10 MALE RR - d
1/4" = 1'-0"

KEYNOTES (1)

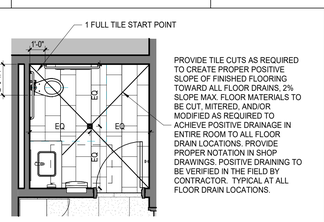
KEYPLAN

KEY PLAN

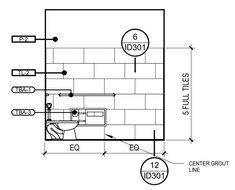
TRUE NORTH



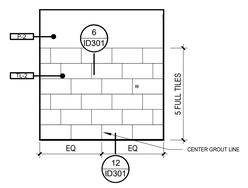
11 STAFF RESTROOM
1/4" = 1'-0"



12 STAFF RR FINISH PLAN
1/4" = 1'-0"



13 STAFF RR - a
1/4" = 1'-0"



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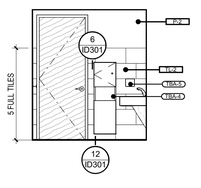

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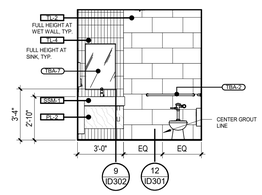

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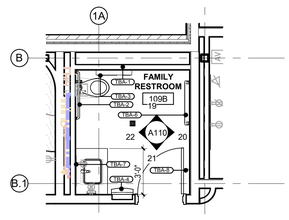
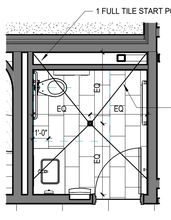


17 FAMILY RESTROOM
1/4" = 1'-0"



18 FAMILY RR FINISH PLAN
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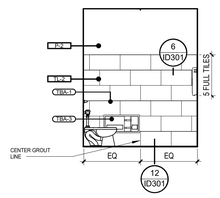

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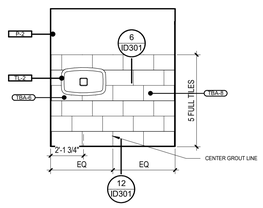

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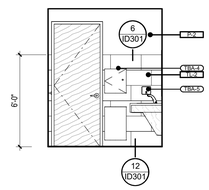

21 FAMILY RR - c
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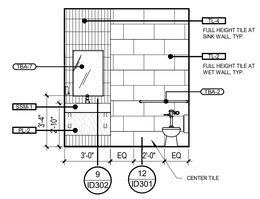

22 FAMILY RR - d
1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

ITEM NO.	PRODUCT DESCIPTION	MANUFACTURER & MODEL NUMBER
TBA-1	STAINLESS STEEL 42" GRAB BAR	BOBRICK 6806 SERIES
TBA-2	STAINLESS STEEL 36" GRAB BAR	BOBRICK 6806 SERIES
TBA-3	STAINLESS STEEL COMBINATION SURFACE MOUNTED TOILET SEAT COVER DISPENSER, WASTE DISPOSAL, AND TOILET TISSUE DISPENSER	BOBRICK B-30919 (CLASSIC SERIES)
TBA-4	RECESSED COMBINATION TOWEL & WASTE UNIT	BOBRICK B-43944 (CONTURA SERIES)
TBA-5	SURFACE MOUNTED SOAP DISPENSER	BOBRICK B-4112 (CONTURA SERIES)
TBA-6	BABY CHANGING STATION SURFACE MOUNTED ADA COMPLIANT, LIGHT GRAY	GAMCO BCS-4
TBA-7	24"W x 36"H WALL-MOUNTED STAINLESS STEEL CHANNEL FRAMED MIRROR	BOBRICK B-165 2436
TBA-8	ROBE HOOK, SATIN STAINLESS STEEL	BOBRICK B-6717
TBA-9	SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK B-4262 (CONTURA SERIES)
TBA-10	SURFACE MOUNTED MOP & BROOM HOLDER	BOBRICK B-223x24

1. ALL TOILET ACCESSORIES TO BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
2. PROVIDE FIRE RETARDANT BLOCKING IN FIRE RATED WALL ASSEMBLIES.
3. PROVIDE WOOD BLOCKING AT ALL WALL-MOUNTED ACCESSORIES
4. PROVIDE COAT/ROBE HOOK AT BACK OF ALL RESTROOM DOORS & ADJACENT TO ALL SHOWERS
5. PROVIDE UTILITY SHELF AT ALL JANITOR ROOMS

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PROJECT NO: 4024101

ENLARGED FLOOR PLANS - RESTROOMS

SHEET NUMBER
A110

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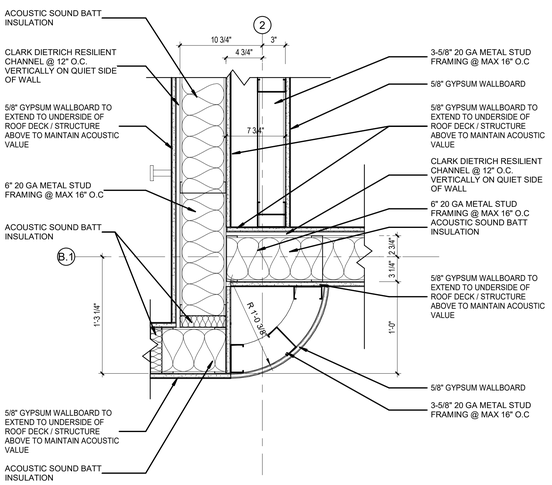
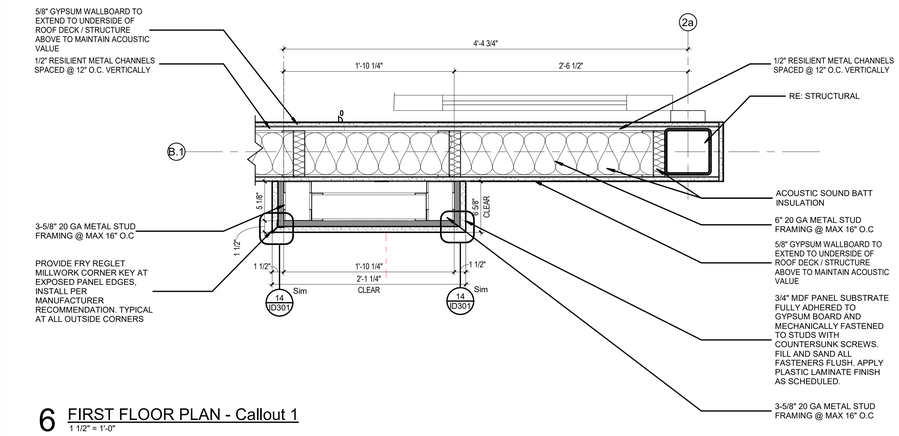


7 PLAN DETAIL - INT. 7
1 1/2" = 1'-0"



6 FIRST FLOOR PLAN - Callout 1
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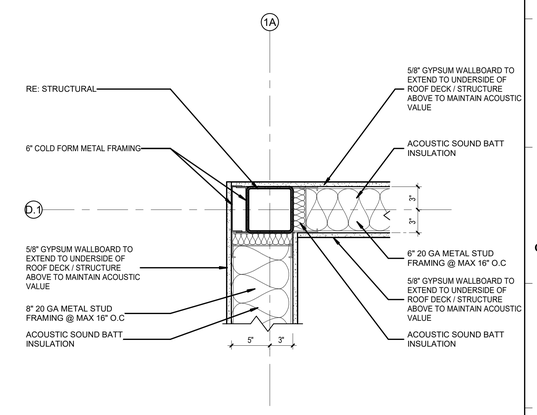

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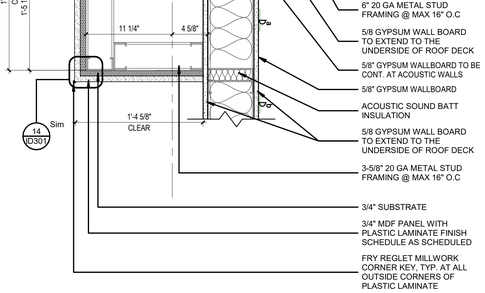

5 PLAN DETAIL - INT. 5
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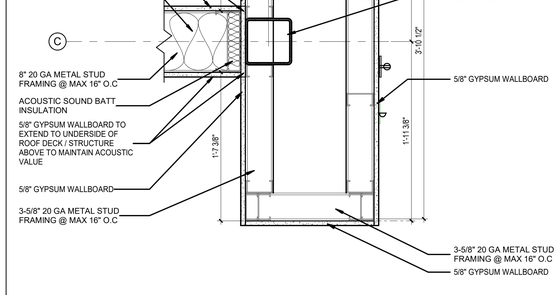
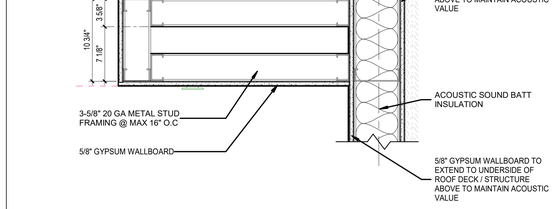


1 PLAN DETAIL - INT. 1
1 1/2" = 1'-0"



9 FIRST FLOOR PLAN - Callout 3
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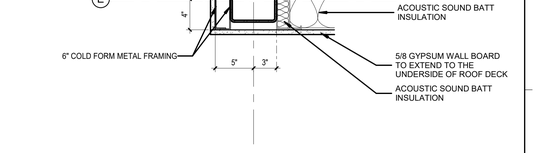

3 PLAN DETAIL - INT. 3
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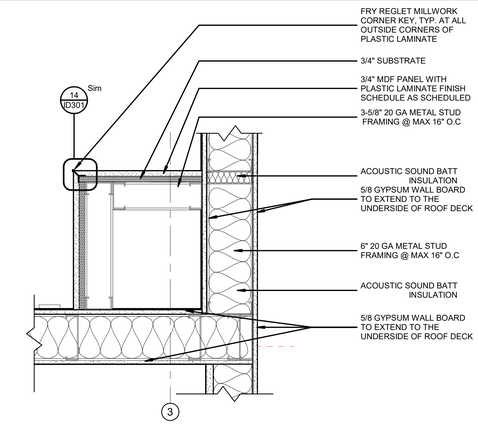

10 FIRST FLOOR PLAN - Callout 4
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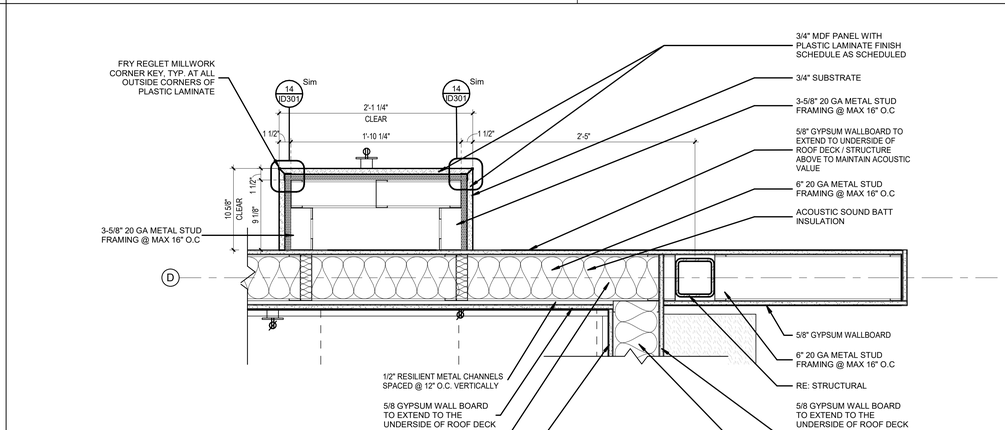

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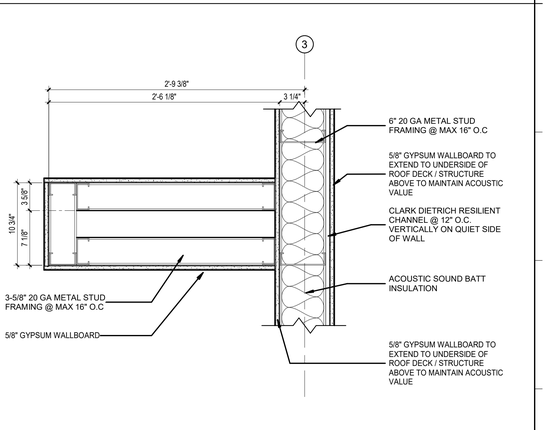

8 FIRST FLOOR PLAN - Callout 2
1 1/2" = 1'-0"

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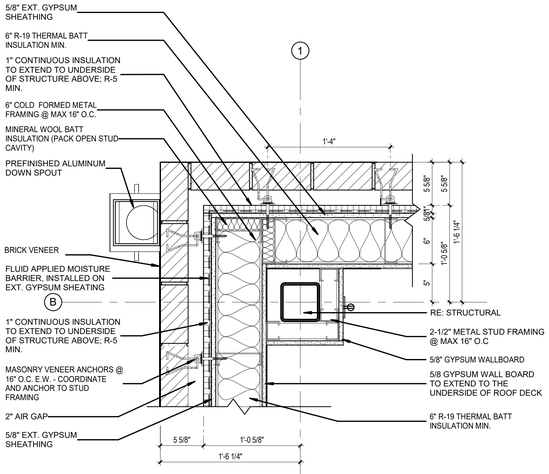
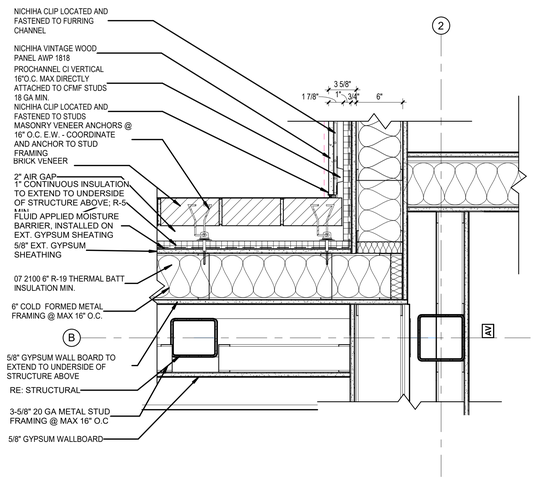
PLAN DETAIL INTERIOR

SHEET NUMBER
A121



1 PLAN DETAIL - BRICK VENEER OUTSIDE CORNER
1 1/2" = 1'-0"



2 PLAN DETAIL - BRICK VENEER INSIDE CORNER
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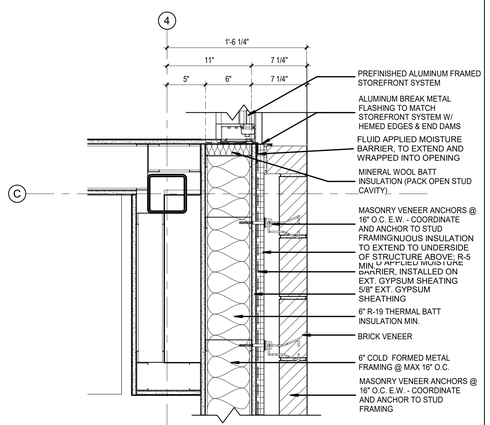

3 PLAN DETAIL - BRICK VENEER @ OPENING 1
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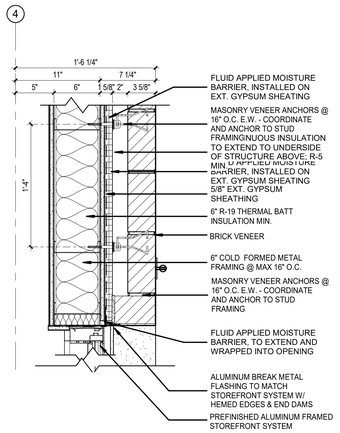

4 PLAN DETAIL - BRICK VENEER @ OPENING1
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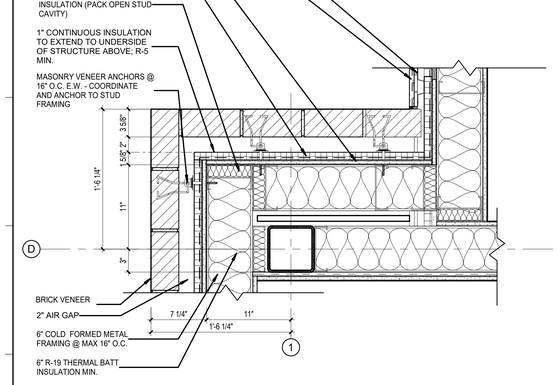
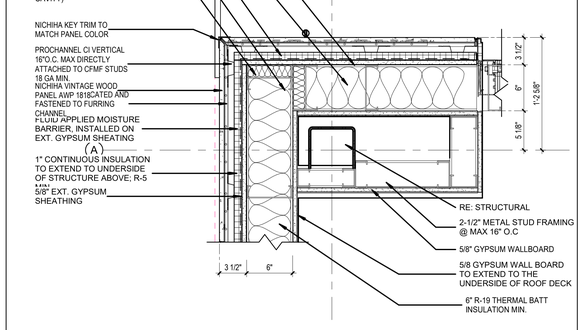


5 PLAN DETAIL - BRICK VENNER @ WOOD LOOK
1 1/2" = 1'-0"



6 PLAN DETAIL - WOOD LOOK OUTSIDE CORNER
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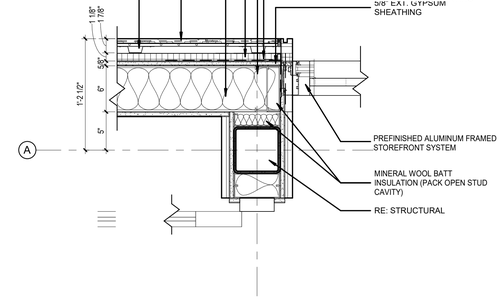

7 PLAN DETAIL - WOOD LOOK AT SF
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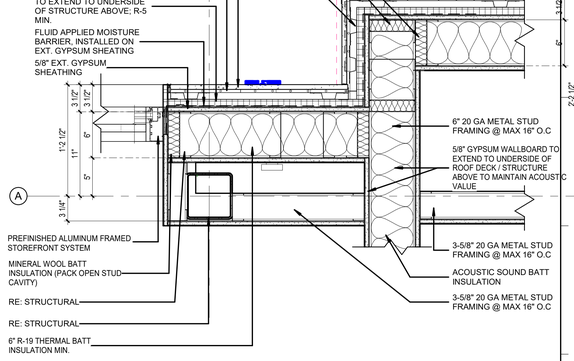
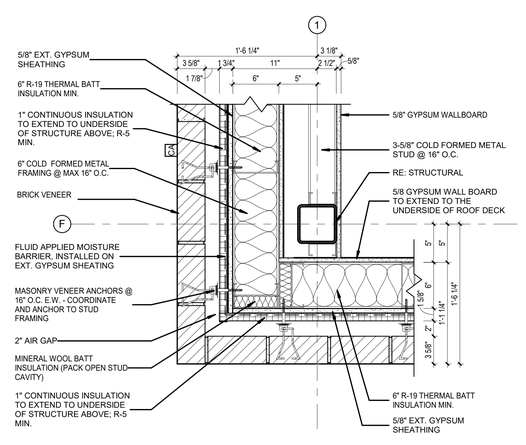


8 PLAN DETAIL - WOOD LOOK @ METAL PANEL
1 1/2" = 1'-0"



9 PLAN DETAIL - BRICK VENEER 1
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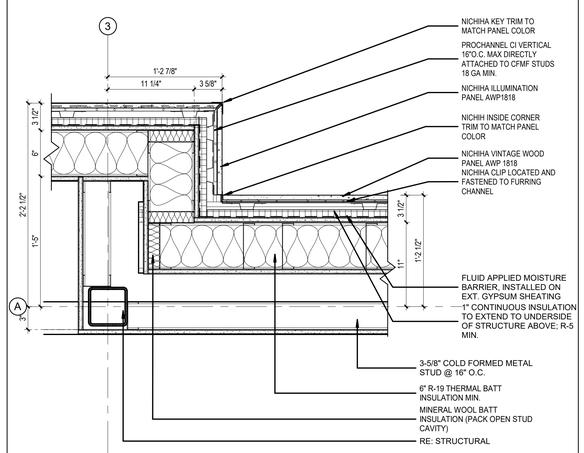

10 PLAN DETAIL - BRICK VENEER @ METAL PANEL 1
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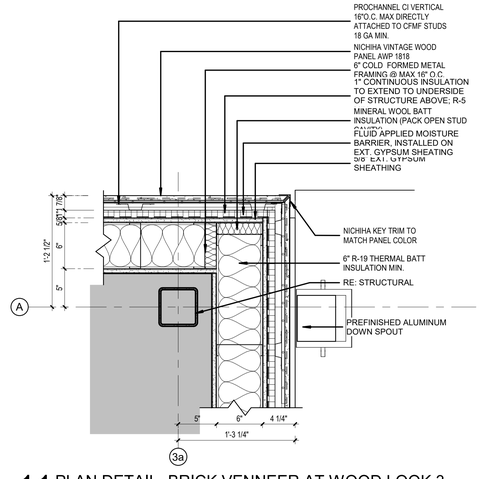

11 PLAN DETAIL -BRICK VENNEER AT WOOD LOOK 3
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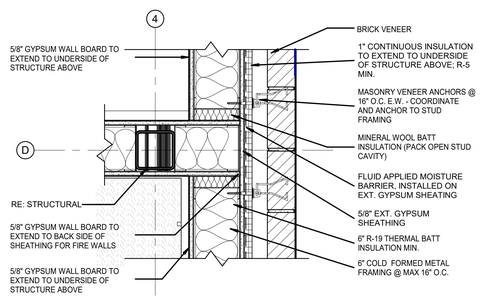

12 PLAN DETAIL - FIRE WALL
1 1/2" = 1'-0"

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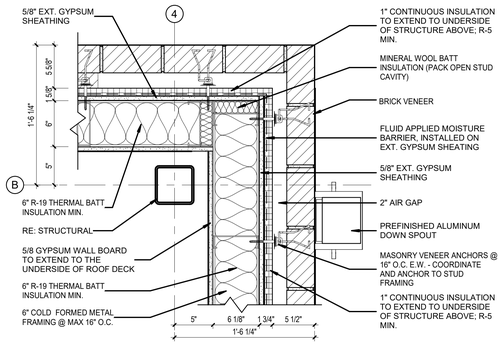
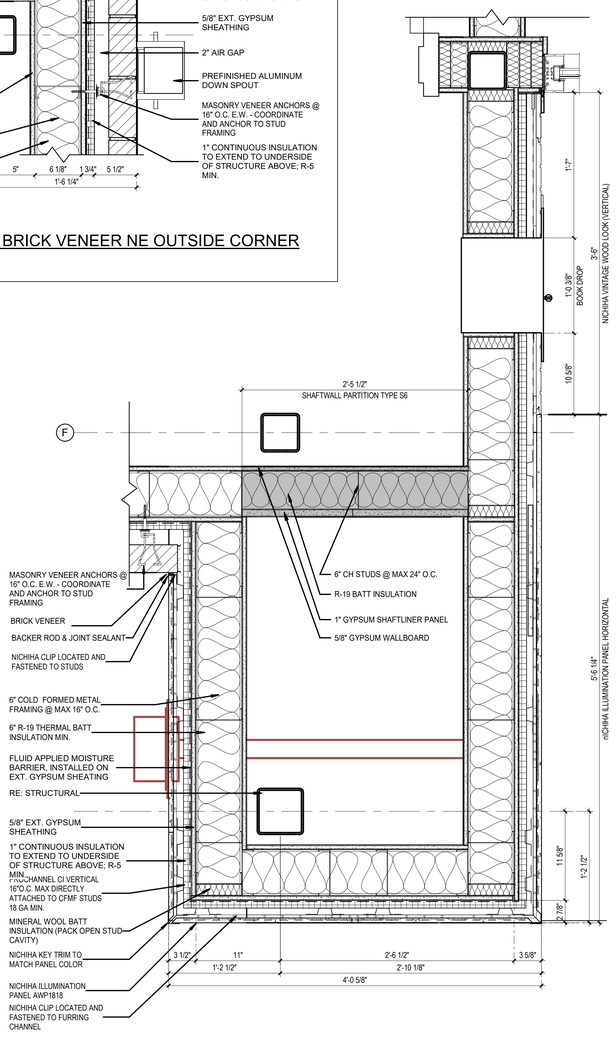
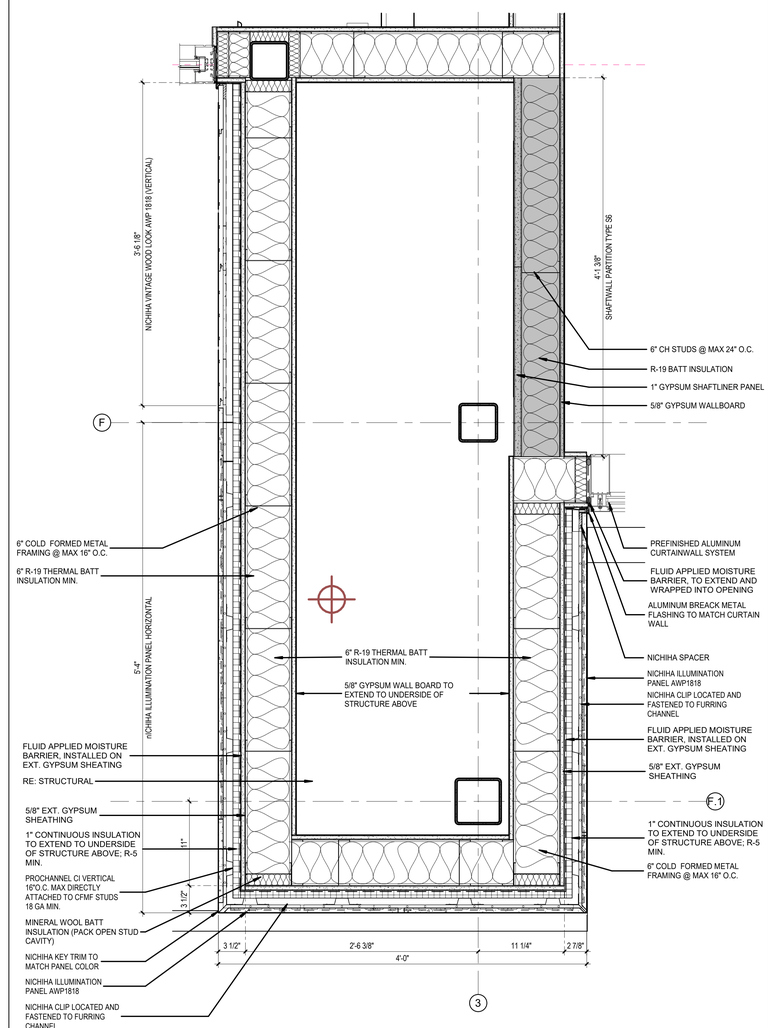


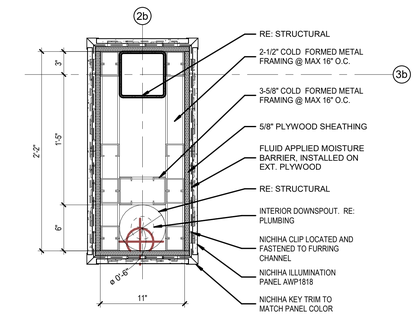
8 PLAN DETAIL - BRICK VENEER NE OUTSIDE CORNER
1 1/2" = 1'-0"



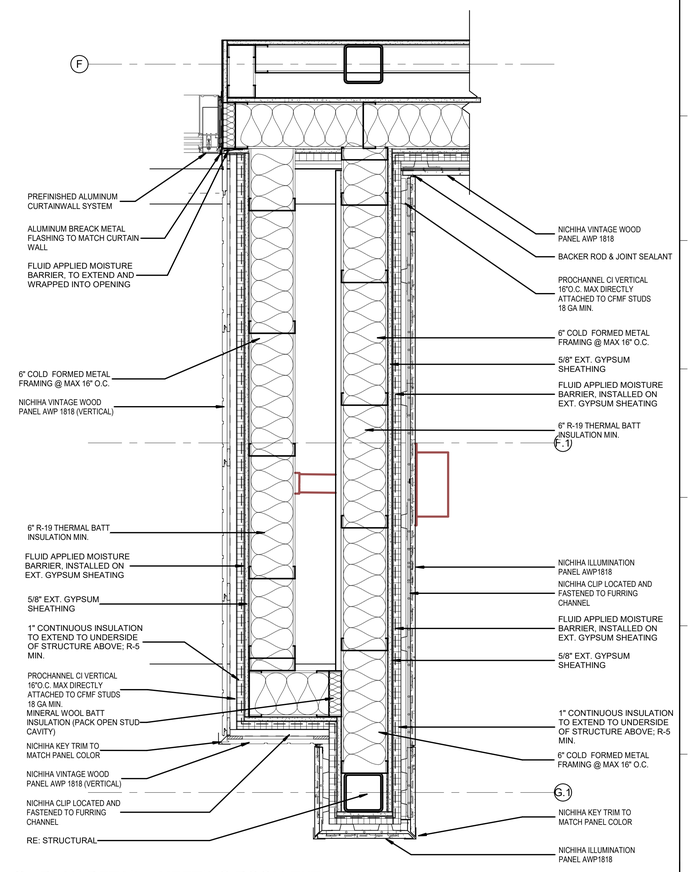
1 PLAN DETAIL - ENTRY 2
1 1/2" = 1'-0"



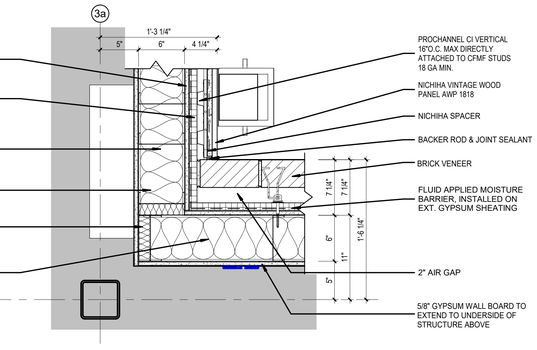
2 PLAN DETAIL - ENTRY 1
1 1/2" = 1'-0"



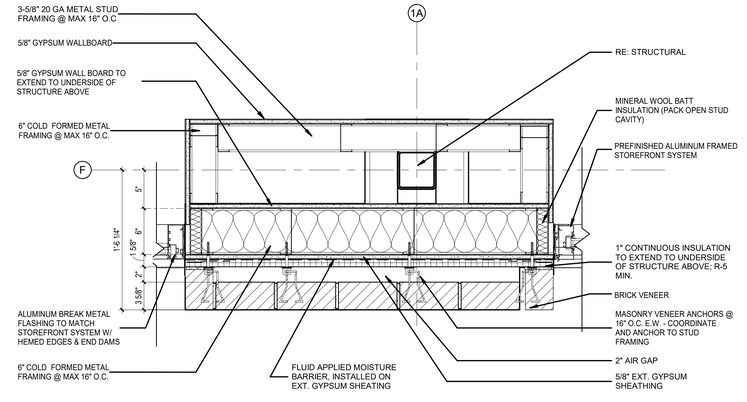
7 PLAN DETAIL - COLUMN @ COVERED PATIO
1 1/2" = 1'-0"



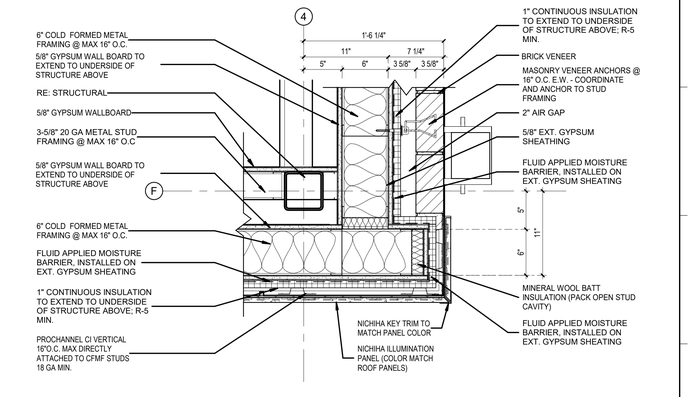
3 PLAN DETAIL - MEETING ROOM EXT
1 1/2" = 1'-0"



4 PLAN DETAIL - INSIDE CORNER
1 1/2" = 1'-0"



5 PLAN DETAIL0 LA ROOM
1 1/2" = 1'-0"



6 PLAN DETAIL - OUTSIDE CORNER 2
1 1/2" = 1'-0"

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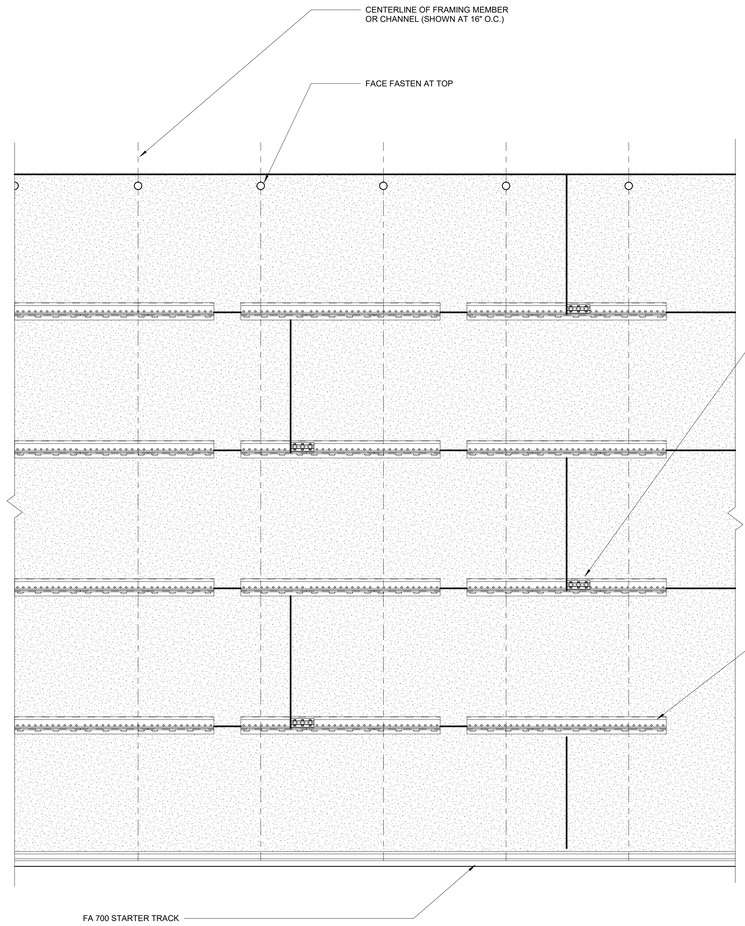
NICHIHA ACCESORIES

TRIMS	FLASINGS	CLIPS
J MOLD	ESSENTIAL OVERHANG FLASHING	10 MM SPACER
OUTSIDE CORNER KEY TRIM		ULTIMATE CLIP
INSIDE CORNER TRIM	ESSENTIAL STARTER FLASHING	STARTER CLIP
SINGLE FLANGE SEALANT BACKER		

1 NICHIHA ACCESORIES
6" = 1'-0"



2 ELEVATION STAGGERED CLIP SECTION
1 1/2" = 1'-0"

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NICHIHA DETAILS

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1 OVERALL REFLECTED CEILING PLAN
3/16" = 1'-0"

RCP GENERAL NOTES

1. THE OVERALL RCP IS A BROAD VIEW OF THE OVERALL CEILING LAYOUT. REFER TO ENLARGED RCP SHEETS FOR ADDITIONAL INFORMATION, DIMENSIONS, KEYNOTES AND TAGS.
2. CEILINGS SHOWN ARE A GRAPHICAL REPRESENTATION OF DIFFERING CEILING TYPES. REFER TO FINISH KEY FOR ADDITIONAL INFORMATION AND FOR ALL FINISHES NOT LISTED.
3. CONTRACTOR TO COORDINATE ALL LOCATIONS OF CEILING MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURES, EXIT LIGHTS, MECHANICAL DEVICES, SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, SPRINKLER HEADS,OCCUPANCY SENSORS, CAMERAS, ETC. NOTIFY ARCHITECT OF ANY INCONSISTENCIES WITH MECHANICAL, ELECTRICAL, LIGHTING AND TECHNOLOGY PLANS PRIOR TO INSTALLATION. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN ON ARCHITECTURAL RCPS FOR LOCATION PURPOSES ONLY.
4. CONTRACTOR WILL BE REQUIRED TO PROVIDE FINAL FIELD VERIFICATION OF ALL OVERHEAD DEVICES INCLUDING BUT NOT LIMITED TO AV EQUIPMENT, LIGHTING, FIRE PROTECTION, ALARM DEVICES, AND ROOF DRAINGE ARE LOCATED AND WITHOUT CONFLICT.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS. PANELS TO BE PAINTED OT MATCH ADJACENT CEILING. ALL CEILING ACCESS PANELS AND PLATES SHALL BE PAINTED TO MATCH ADJACENT CEILING FINISH.
7. CEILINGS AND OTHER SUSPENDED ITEMS SHALL BE ATTACHED TO STRUCTURE BY FULLY EMBEDDED OR "SHEAR" CONNECTION; PULL OUT CONNECTIONS ARE NOT ACCEPTABLE. DO NOT ATTACH ANY PORTION OF CEILING OR PARTITION SYSTEMS TO OVERHEAD MECHANICAL SYSTEM COMPONENTS. COORDINATE WITH MECHANICAL AND PROVIDE ALTERNATE BRACING OR SUPPORT FOR ANY PARTITION OR CEILING SYSTEM IN CONFLICT WITH DUCTWORK OR MECHANICAL ITEMS.
8. FIXTURES AND DEVICES MUST BE INDEPENDENTLY SUPPORTED AND NOT ATTACHED TO MILLWORK. REQUIRED OPENINGS SHALL BE FIELD CUT UNLESS NOTED OTHERWISE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE FILED CUT MEMBERS ARE PROPERLY SUPPORTED.
9. PROVIDE LIGHT GAUGE STEEL FRAMING ABOVE SUSPENDED CEILING TO SUPPORT ACOUSTICAL CEILING TILE AND ALL OTHER MECHANICAL AND LIFE SAFETY ACCESSORIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT SUSPENSION MEMBERS ARE DESIGNED AND INSTALLED ACCORDING TO ALL APPLICABLE BUILDING CODES.
10. REFER TO ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE TYPES & DESIGNATIONS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF REUSED, RELOCATED, EXISTING OR NEW LIGHT LOCATIONS. PATCH ALL GWB CEILINGS WITH NEW GYPSUM WALL BOARD WHERE DAMAGED OR REMOVED FOR NEW WORK. MATCH EXISTING DEPTH, FINISH AND COLOR OF CEILING TO BE PATCHED.
11. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ON RCPS. REFER TO MEP FOR LIGHTING REQUIREMENTS IN ELEVATOR SHAFT.
12. CENTER ALL CEILING MOUNTED DEVICES IN CEILING TILE PANELS UNLESS NOTED OTHERWISE, CENTER ALL LIGHT FIXTURES IN GYPSUM BOARD CEILING IN ROOM UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS FOR WALL-MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING CEILING AND WALL MOUNTED FIXTURES.
13. AT EXTERIOR SOFFITS, CENTER RECESSED LIGHT FIXTURES BETWEEN FLUSH METAL SOFFIT PANELS, VERIFY DIMENSIONS IN FIELD. COORDINATE WITH ARCHITECT AND ENGINEER.
14. CENTER CEILING GRID IN ROOM IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE. CUT ALL PARTIAL ACOUSTICAL CEILING PANELS WITH EDGE PROFILE TO MATCH MANUFACTURER'S EDGE AS REQUIRED.
15. FIRE SPRINKLER HEADS ARE NOT SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES UNLESS NOTED OTHERWISE. FIRE SPRINKLER CONTRACTOR SHALL REFERENCE ALL DRAWINGS AND SPECIFICATIONS FOR DETERMINING PROPER COVERAGE AND SPRINKLER HEAD LAYOUT/DESIGN. SPRINKLER HEAD COVERS THAT ARE LOCATED IN GYPSUM ARE TO BE THE SAME COLOR AS ADJACENT CEILING. THE CONTRACTOR WILL ADVISE THE OWNER THAT AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE EXTENDED SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC. THE CONTRACTOR WILL ALSO ADVISE THE OWNER THAT ITEMS SHALL NOT BE PLACED OR STORED ON TOP OF SUCH SHELVING SO THAT THIS CODE REQUIRED 18" MINIMUM VERTICAL CLEARANCE WILL BE MAINTAINED.
16. ALL SCHEDULED CEILING & SOFFIT HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM OR SPACE AND ARE NOT FROM ELEVATED OR RECESSED FLOOR LEVELS.
17. CEILING HEIGHTS INDICATED IN EXISTING AREAS ARE APPROXIMATE, MAXIMIZE HEIGHTS WHERE POSSIBLE. WHERE EXISTING CEILING GRIDS ARE TO BE EXTENDED, MATCH EXISTING HEIGHT, DIRECTION, MANUFACTURER, STYLE, COLOR AND TYPE OF GRID.
18. ALL GYPSUM BOARD SOFFITS ARE TO BE FINISHED WITH NO EXPOSED EDGES OR VIEWS INTO THE PLENUM SPACE. ALL GYPSUM SOFFITS OVER CASEWORK TO EXTEND 1" BEYOND THE FACE OF CASEWORK, ALL SOFFITS WITHIN RECESSED OPENINGS TO ALIGN WITH ADJACENT WALLS AND ALL SOFFITS ADJACENT TO WALLS TO ALIGN, UNLESS NOTED OTHERWISE.
19. ALL GYPSUM BOARD CEILINGS SHALL BE 5/8" GWB WITH METAL FURRING AT 16" O.C.
20. PROVIDE CONTINUOUS SOUND BATT INSULATION ABOVE ALL TOILET ROOM CEILINGS.
21. PROVIDE BLOCKING AT ALL WINDOWS FOR WINDOW TREATMENTS.
22. ALL CEILINGS NOTED AS "EXPOSED"OR "NO CEILING"ARE TO BE FINISHED PER RCP, UNLESS NOTED OTHERWISE.
23. WHEN A PAINT COLOR IS DESIGNATED AT A FURR DOWN / BULKHEAD, PAINT ALL EXPOSED SIDES THE DESIGNATED COLOR. WHERE BULKHEADS ARE ALIGNED WITH THE FACE OF WALL, ALL EXPOSED FACES SHALL BE PAINTED TO MATCH THE ADJACENT WALL.
24. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS -BOTH EXTERIOR AND INTERIOR -WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
25. FIELDS OF TILE SURROUNDED BY GYPSUM BOARD SOFFIT ON FOUR SIDES ARE TO BE FULL TILES (UNCUT) U.O.N.
26. REVEAL MOLDING TO BE USED AT ALL INTERSECTIONS OF DIFFERENT MATERIALS. ALL SOFFIT REVEALS SHALL BE A CONTINUATION OF VERTICAL WALL REVEALS.
27. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS OF CUBICLE CURTAINS. NOTIFY ARCHITECT OF ANY CONFLICT BETWEEN CUBICLE CURTAIN TRACK MOUNTING AND ANY CEILING MOUNTED DEVICES & FIXTURES PRIOR TO INSTALLATION.
28. GENERAL FINISHES UNLESS NOTED OTHERWISE:
    A. GWB CEILINGS: P-1

WALL PARTITION LEGEND

- EXISTING WALLS / CONSTRUCTION TO BE DEMOLISHED
- EXISTING WALLS / CONSTRUCTION TO REMAIN
- NEW WALLS / CONSTRUCTION
- SMOKE PARTITION
- ONE HOUR RATED FIRE BARRIER
- TWO HOUR RATED FIRE BARRIER
- ONE HOUR RATED FIRE/SMOKE BARRIER
- TWO HOUR RATED FIRE/SMOKE BARRIER

RCP SYMBOL LEGEND

- CEILING HEIGHT
- CEILING FINISH
- 2'x4' FLUSH LENS
- RECESSED DOWNLIGHT
- OCL GLOWRING (VARIOUS SIZES) RE: ELEC
- SUPPLY AIR DIFFUSER RE: MECH FOR SIZE INFO
- RETURN AIR GRILLE RE: MECH FOR SIZE INFO
- EXIT SIGN
- BETACALCO KURL (VARIOUS SIZES) RE: ELEC
- BETACALCO BLOCK STRAIGHT RECESSED RE: ELEC
- BETACALCO BLOCK SUSPENDED DIRECT/INDIRECT RE: ELEC

RCP FINISH LEGEND

- ACT-1: ACOUSTICAL CEILING TILE, RE: FINISH KEY
- ACT-2: ACOUSTICAL CEILING TILE, RE: FINISH KEY
- 5/8" GYPSUM WALLBOARD CEILING
- PLAM-1: PLASTIC LAMINATE FINISH ON 3/4" MDF SUBSTRATE
- LINEAR WOOD CEILING, RE: FINISH KEY

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OVERALL REFLECTED CEILING PLAN - FIRST FLOOR

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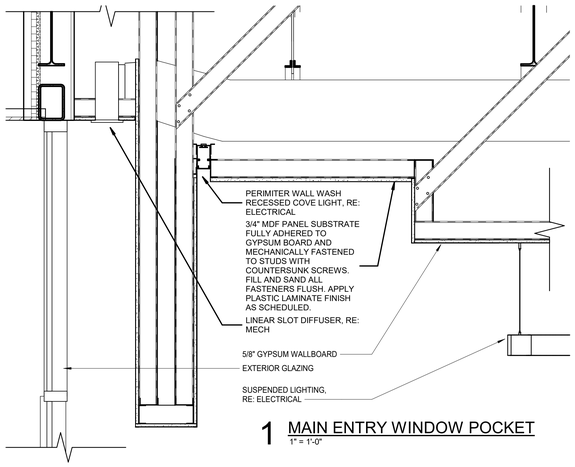
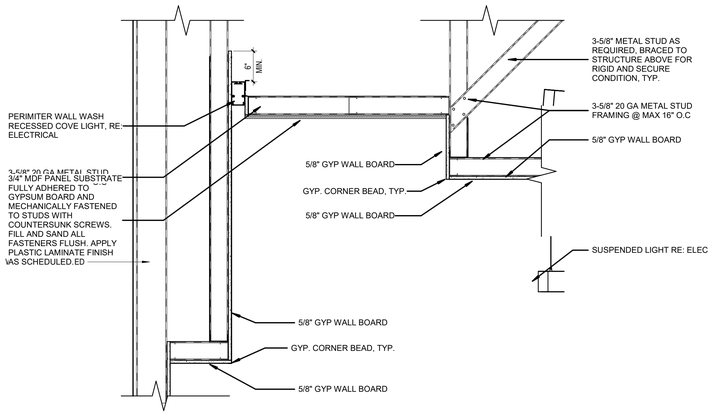
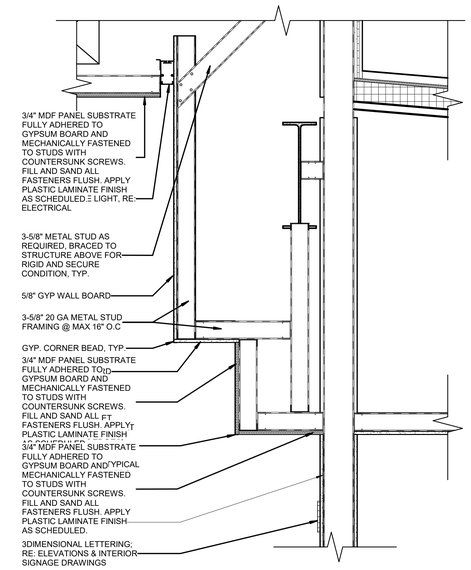


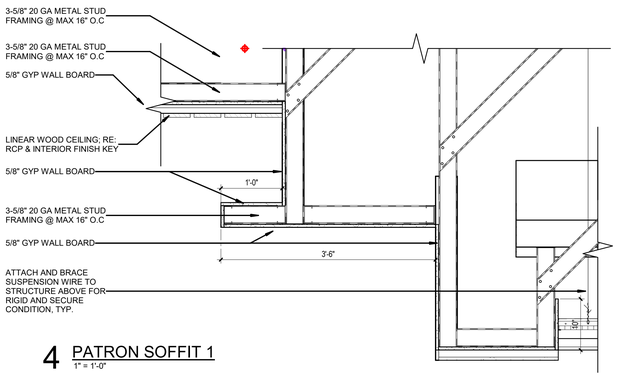
1 MAIN ENTRY WINDOW POCKET
1" = 1'-0"



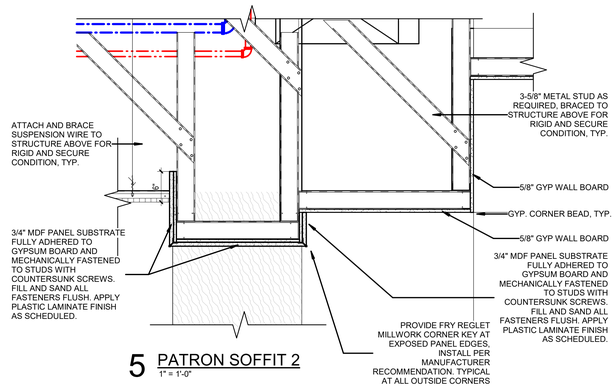
2 MAIN ENTRY PERIMETER SOFFIT 1
1" = 1'-0"



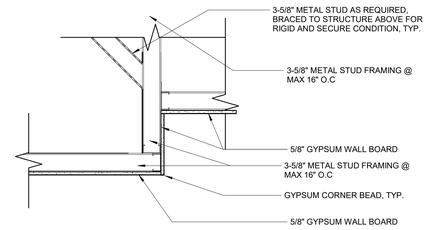
3 MAIN ENTRY PERIMETER SOFFIT 2
1" = 1'-0"



4 PATRON SOFFIT 1
1" = 1'-0"

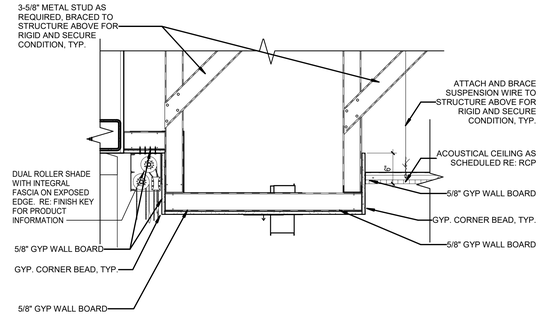


5 PATRON SOFFIT 2
1" = 1'-0"

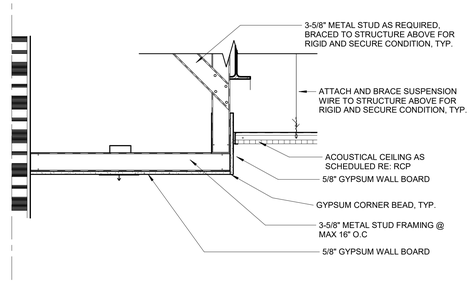


6 TYPICAL SOFFIT TO GYP
1" = 1'-0"

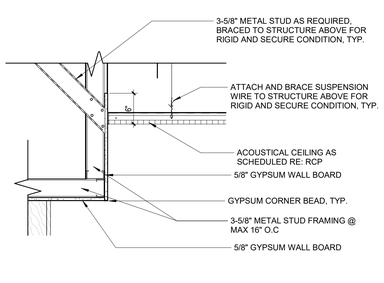
(D.1)



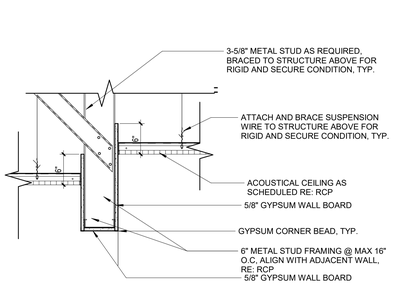
7 MEETING ROOM SOFFIT WINDOW POCKET
1" = 1'-0"



8 MEETING ROOM SOFFIT
1" = 1'-0"



9 TYPICAL SOFFIT TO ACT
1" = 1'-0"



10 PONY WALL
1" = 1'-0"

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REFLECTED CEILING PLAN DETAILS

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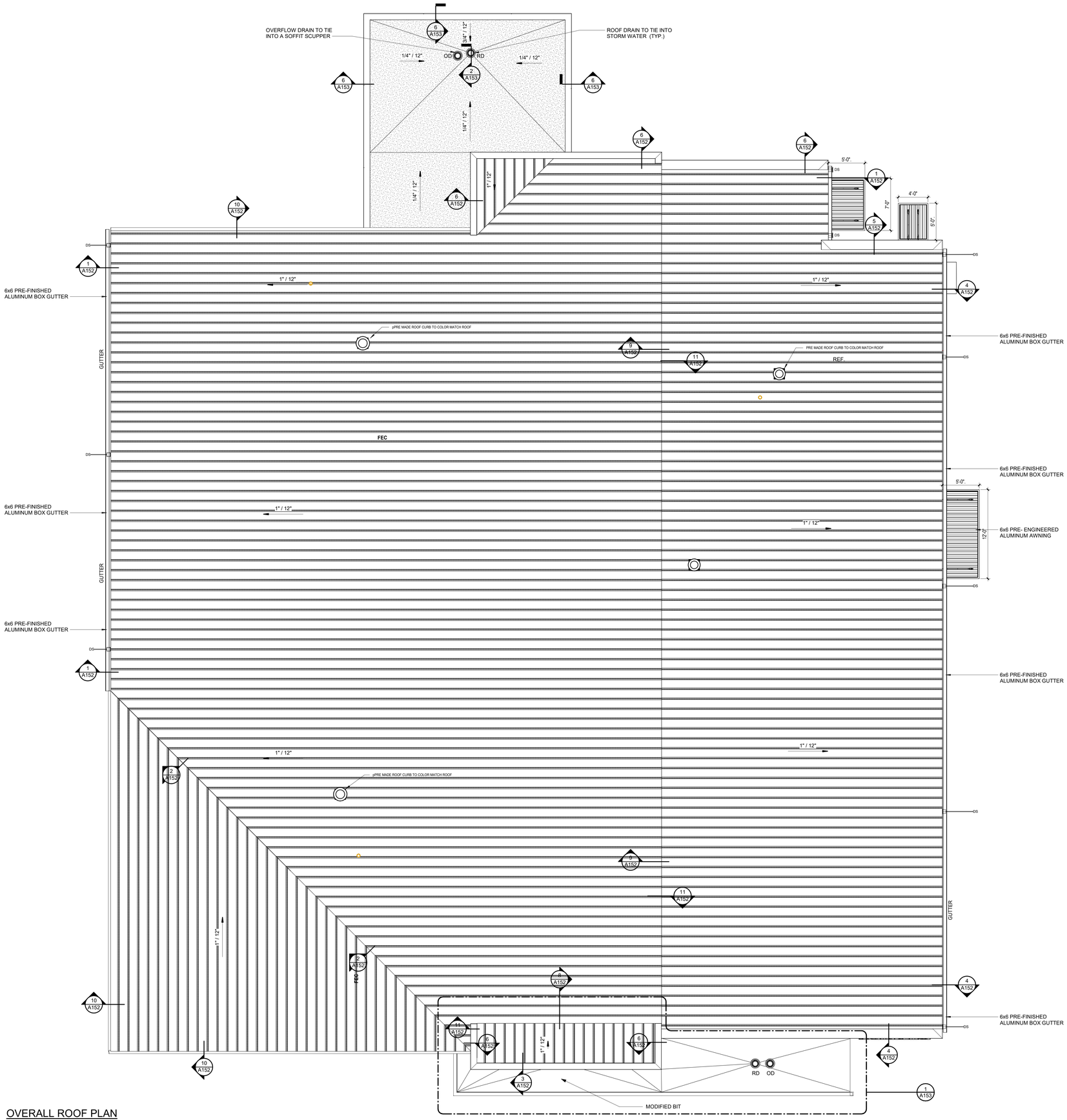

1 OVERALL ROOF PLAN
3/16" = 1'-0"

ROOF PLAN GENERAL NOTES

1. SLOPE ROOF MEMBRANE ¼" PER FOOT MINIMUM, SLOPE CRICKETS AT ½" PER FOOT MINIMUM.
2. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20 INCHES IN WIDTH.
3. ALL ROOF DRAINS, OVERFLOW DRAINS AND DOWNSPOUTS TO BE CONNECTED TO SUBSURFACE DRAINAGE UNLESS NOTED OTHERWISE. SEE CIVIL FOR CONNECTION OF ROOF DETAINAGE SYSTEM TO UNDERGROUND SERVICES.
4. PROVIDE ROOF MEMBRANE SYSTEM AT INTERIOR (ROOF) SIDE OF VERTICAL PARAPET WALLS WHERE PARAPET WALL IS 2'-0" HIGH OR LESS. PROVIDE METAL WALL PANEL SIDING SYSTEM AT INTERIOR (ROOF) SIDE OF VERTICAL PARAPET WALLS WHERE PARAPET WALLS ARE OVER 2'-0" HIGH
5. ALL ROOF MATERIALS AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, RECOMMENDATIONS, AND SPECIFICATIONS TO ACHIEVE SPECIFIED WARRANTY AND PROVIDE WEATHERTIGHT ROOF SYSTEM. **(AND NRCA STANDARDS).**
6. COORDINATE ALL ROOF PENETRATIONS AND EQUIPMENT / PLATFORM SUPPORTS WITH ROOF STRUCTURE AND ROOFING INSTALLATION AND FLASHING REQUIREMENTS.
7. PROVIDE TREATED PLYWOOD SHEATHING AT THE INTERIOR (ROOF) SIDE OF ALL PARAPETS.
8. ROOF MEMBRANE SYSTEM SHALL TURN UP PARAPETS, UP OVER TOP OF PARAPET WALL BELOW COPING CAP, TO BE FLASHED INTO WALL WRB SYSTEM TO ACHIEVE CONTINUOUS UNINTERRUPTED BUILDING ENVELOPE WEATHER BARRIER SYSTEM
9. PROVIDE WALK PAD SYSTEM COMPATIBLE WITH SPECIFIED ROOF SYSTEM, SPANNING FROM ROOF ACCESS POINT TO MAINTENANCE SIDES OF ALL ROOFTOP EQUIPMENT.
10. ALL ROOF MOUNTED EQUIPMENT STANDS, CURBS, PENETRATOINS, ACCESSORIES, UTILITIES, ETC. TO BE FLASHED INTO ROOF SYSTEM AS REQUIRED TO ACHIEVE SPECIFIED WARRANTY.
11. PACK, SCREEN, INSULATE, AND SEAL ALL ROOF PENETRATION SYSTEMS AS REQUIRED TO PREVENT ALL OUTSIDE AIR, MOISTURE, ANIMALS, INSECTS, ETC. FROM COMMUNICATING WITH FRAMING CAVITY BELOW DECK.
12. DO NOT LOCATE ANY ROOFTOP EQUIPMENT WITHIN 10' OF ROOF EDGE UNLESS OTHERWISE NOTED
13. PROVIDE INSULATED PREFABRICATED ROOF HATCH, FLASHED INTO SPECIFIED ROOF SYSTEM AS REQUIRED TO ACHIEVE SPECIFIED WARRANTY
14. ALL PIPING, CONDUITS, ETC. SHAL BE A MINIMUM 10" ABOVE ROOF SURFACE. PROVIDE PIPE SUPPORTS AT 8'-0" MAX.
15. AFTER SUBSTANTIAL COMPLETOIN EXAMINE AND ENSURE ROOF DRAIN LINES ARE FREE OF DEBRIS AND BLOCKAGE. FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY.
16. ISOLATE ALL HEAT PIPES/FLUES AS RECOMENDED AND OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING.
17. ALL ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MINIMUM 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE.
18. DIMENSIONS, DETAILS, EQUIPMENT SIZES AND LOCATIONS SHOWN ON THESE ROOF PLANS AND DETAILS AR FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE AND LOCATIONS TO BE COORDINATED WITH ALL DISCIPLINES.
19. REFER TO OTHER DISCIPLINES FOR SIZE AND LOCATIONS OF NEW DECK PENETRATIONS AND ROOFTOP EQUIPMENT.
20. ALL SHEETMETAL SHALL BE INSTALLED TO COMPLY WITH THE LATEST EDITION OF SMACNA'S ARCHITECTURAL SHEET METAL MANUAL.
21. ANCHOR ROOFTOP UNITS SECURELY IN PLACE WITH METHODS INDICATED PROVIDING FOR THERMAL EXPANSION OF METAL UNITS. CONCEAL FASTENERS WHERE POSSIBLE AND SET UNITS TRUE TO LINE AND LEVEL. EXPOSED EDGES SHALL BE FOLDED BACK NEATLY FROM A ½" HEM ON THE CONCEALED EDGE. INSTALL WORK WITH LAPS, JOINTS AND SEAMS WHCIH WILL BE WATERTIGHT AND WATERPROOF.

DESCRIPTION:

THE WORK REQUIRED UNDER THIS CONTRACT INCLUDES, BUT NECESSARILY LIMIT TO, SHEET METAL GUTTER. AND DOWNSPOUTS, FLASHING, VENTS AND RELATED ITEMS INDICATED AND AS REQUIRED TO MAKE ROOF SYSTEMS WATERTIGHT AND TO COMPLETE THE WORK AS INDICATED ON THESE DRAWINGS.

SBS MOD BIT ROOF SYSTEM (ON SLOPED STEEL) :

A. SYSTEM DESCRIPTION

**TWO PLY-BASE & TOP - SBS MODIFIED BITUMINOUS MEMBRANE-
FULLY ADHERED SYSTEM OVER 1/2" COVERBOARD TO BE MECHANICALLY ATTACHED TO 5" MIN. (=R-30) RIGID POLYISOCYANURATE INSULATION TO STRUCTURAL METAL DECK.**

B. PROVIDE ROOFTOP WALKWAY PADS TO ALL EQUIPMENTS

REFERENCES:

ARCHITECTURAL SHEET METAL MANUAL, "SMACNA" BY THE SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION, INC.

THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING AND WATERPROOFING MANUAL

INSTALLATION:

ALL SHEET METAL SHALL BE INSTALLED TO COMPLY WITH THE LATEST EDITION OF SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." ANCHOR UNITS OF WORK SECURELY IN PLACE BY METHODS INDICATED PROVIDING FOR THERMAL EXPANSION OF METAL UNITS: CONCEAL FASTENERS WHERE POSSIBLE, AND SET UNITS TRUE TO LINE AND LEVEL AS INDICATED. EXPOSED EDGES SHALL BE FOLDED BACK NEATLY TO FORM A 1/2" HEM ON THE CONCEALED EDGE. INSTALL WORK WITH LAPS, JOINTS, AND SEAMS WHICH WILL BE PERMANENTLY WATERTIGHT AND WATERPROOF.

H.P. = HIGH POINT / RIDGE

RD = ROOF DRAIN

ORD = OVERFLOW DRAIN

= DOWN SLOPE INDICATION

DS = DOWNSPOUT

SC = PRE-FIN. METAL THRU-WALL SCUPPER WITH CONDUCTOR HEAD AND DOWNSPOUT

SBS MOD BIT ROOF SYSTEM
FULLY ADHERED OVER 1/2" ROOF COVERBOARD
5 INCH MINIMUM = (R30) POLYISO ROOF INSULATION
OVER SLOPED STRUCTURAL STEEL AND METAL DECK

STANDING SEAM METAL ROOF SYSTEM OVER ICE AND WATER SHIELD WEATHER BARRIER, 5/8" EXTERIOR PLYWOOD ROOF SHEATHING, 5 INCH MINIMUM = (R30) POLYISO ROOF INSULATION OVER STRUCTUAL METAL DECK

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ROOF PLAN

SHEET NUMBER
A151

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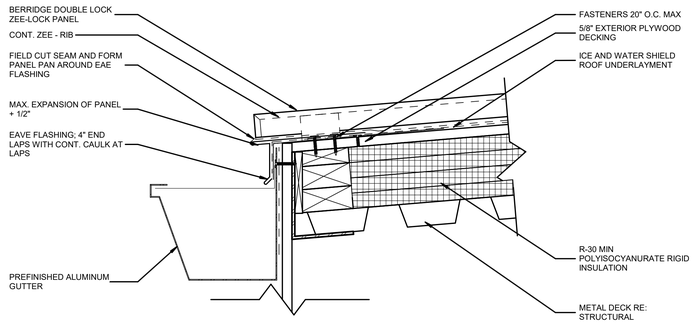
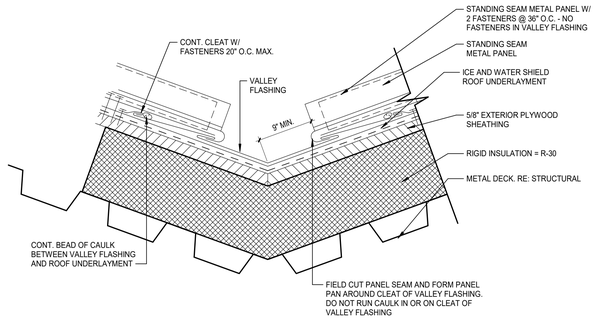
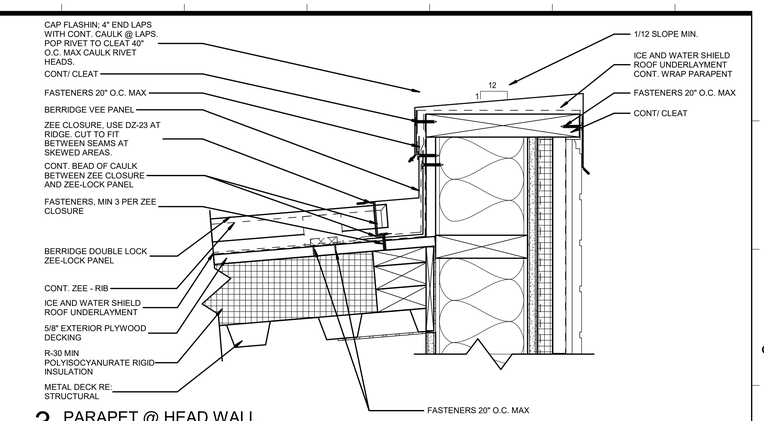


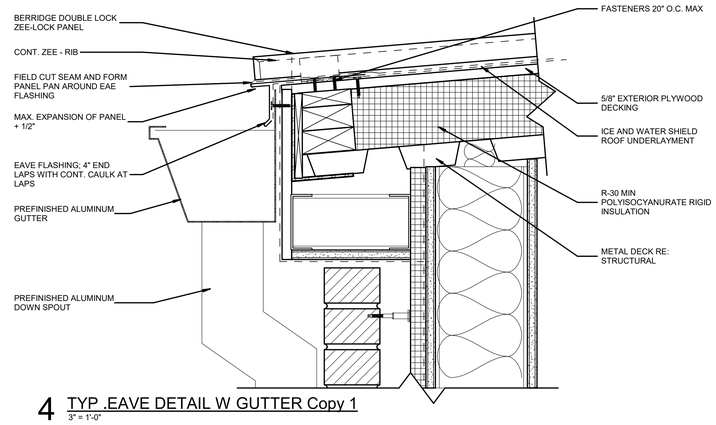
1 TYP. EAVE W/ GUTTER
3" = 1'-0"



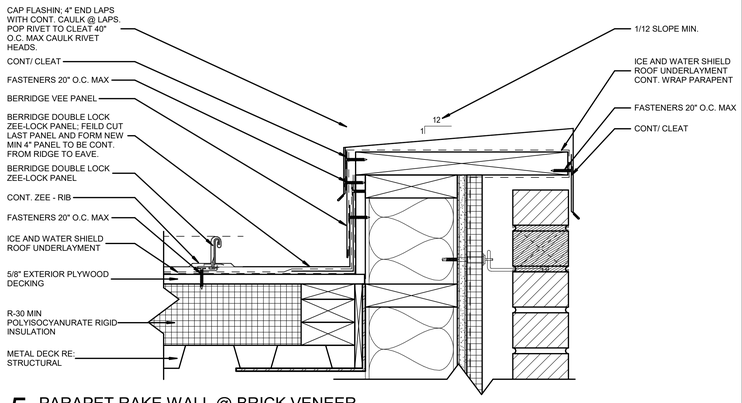
2 SSM VALEY DETAIL TYP.
3" = 1'-0"



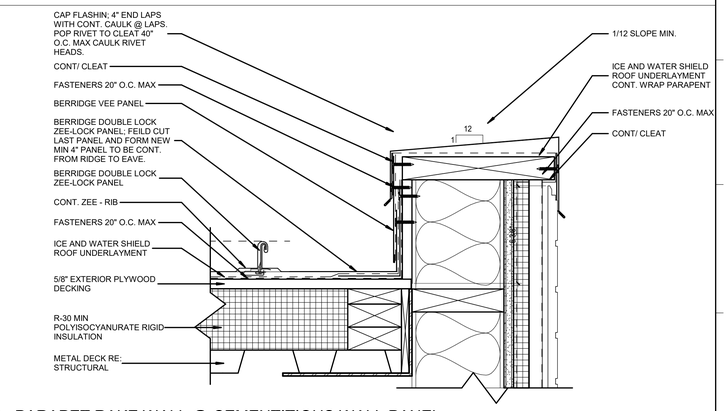
3 PARAPET @ HEAD WALL
3" = 1'-0"



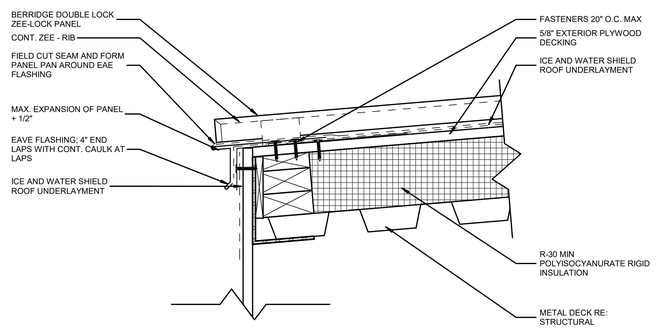
4 TYP .EAVE DETAIL W GUTTER Copy 1
3" = 1'-0"



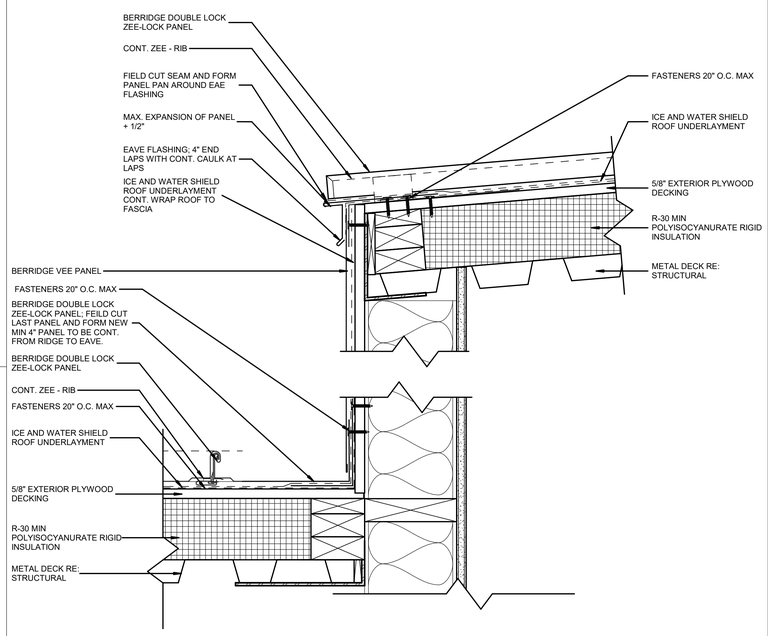
5 PARAPET RAKE WALL @ BRICK VENEER
3" = 1'-0"



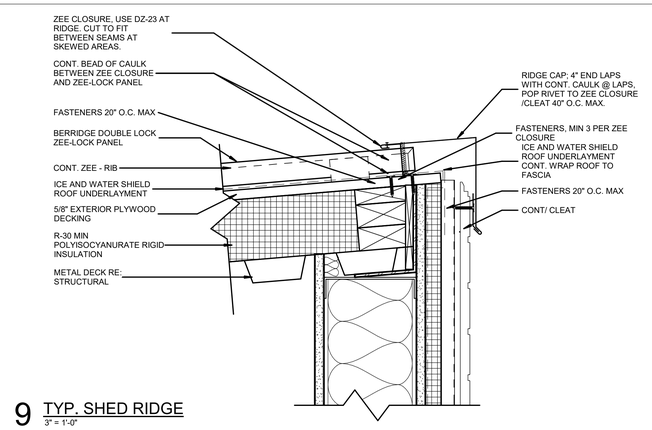
6 PARAPET RAKE WALL @ CEMENTITIOUS WALL PANEL
3" = 1'-0"



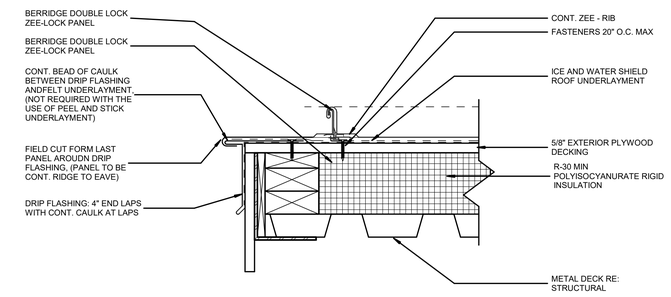
7 TYP. EAVE
3" = 1'-0"



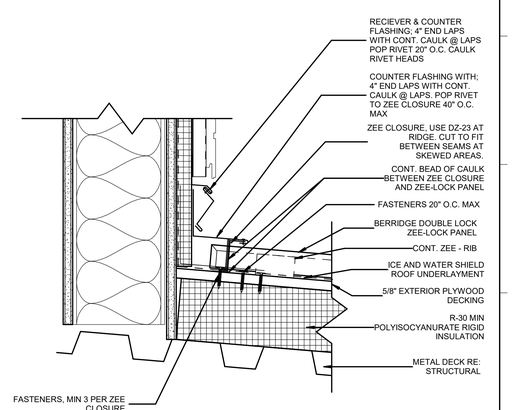
8 TYP. EAVE Copy 1
3" = 1'-0"



9 TYP. SHED RIDGE
3" = 1'-0"



10 GABLE DETAIL
3" = 1'-0"



11 Drafting 2
3" = 1'-0"

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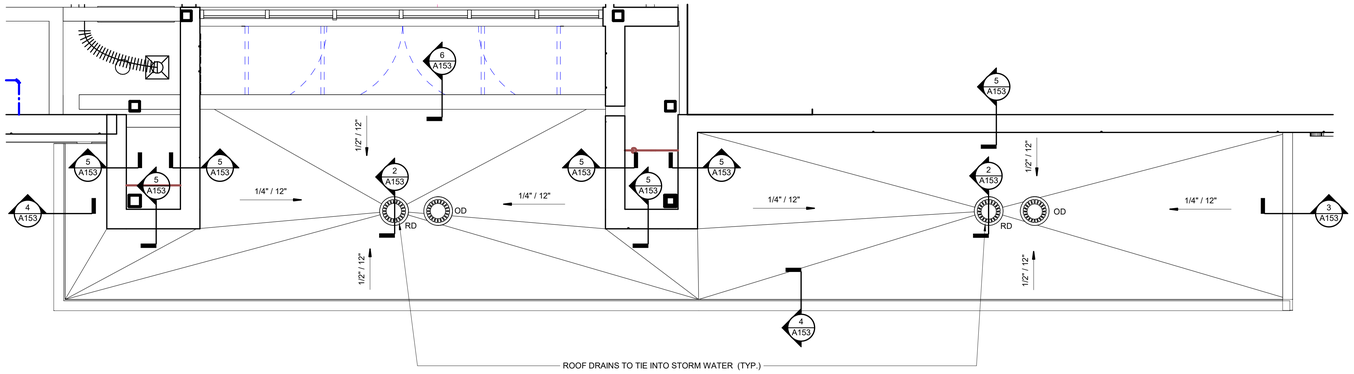
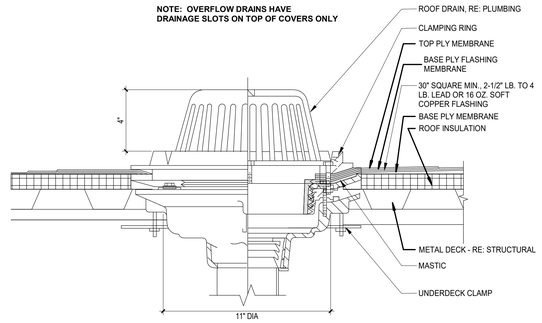
ROOF DETAILS

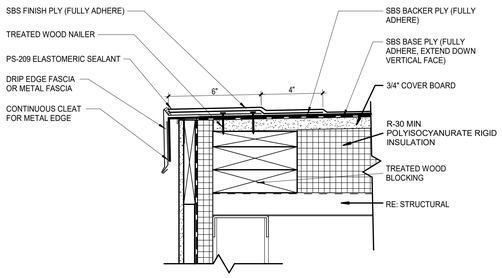
SHEET NUMBER
A152



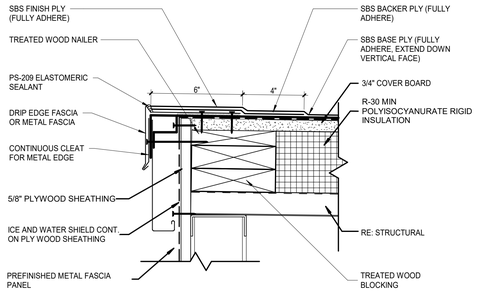
1 ENLARGED ROOF PLAN - FRONT CANOPY
3/8" = 1'-0"



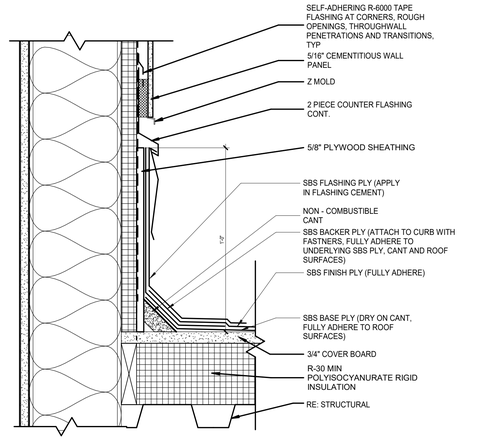
2 TYP. ROOF DRAIN
3" = 1'-0"



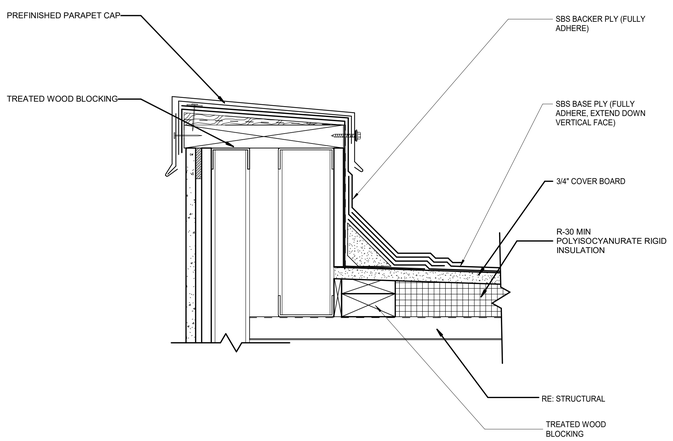
3 TYPICAL ROOF EDGE @ CANOPY
3" = 1'-0"



4 TYPICAL ROOF EDGE @ CANOPY WALL
3" = 1'-0"



5 TYPICAL WALL FLASHING @ CANOPY DECK
3" = 1'-0"



6 TYPICAL ROOF EDGE @ CANOPY PARAPET
3" = 1'-0"

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ENLARGED ROOF PLANS AND DETAILS

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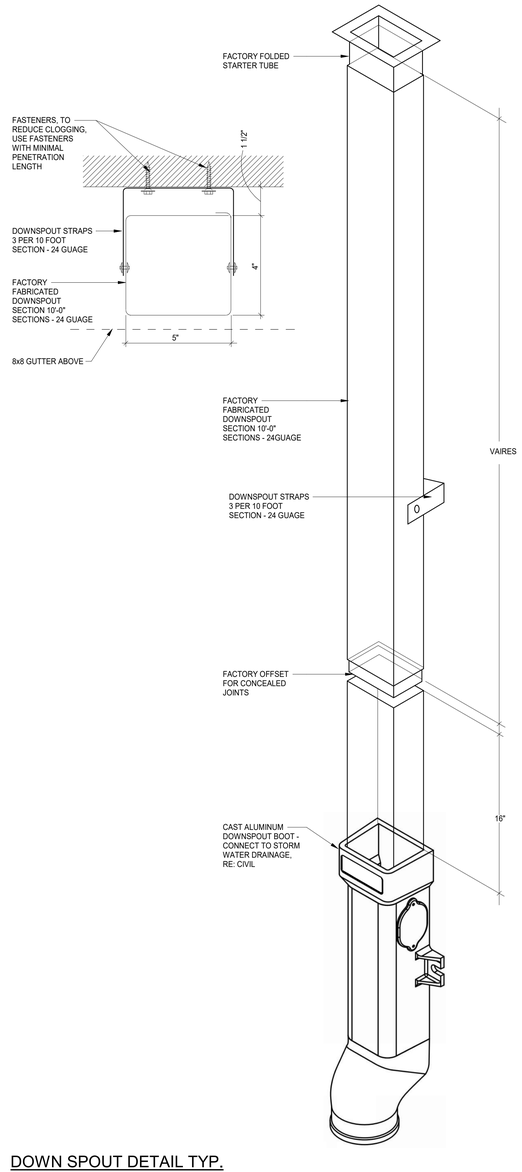
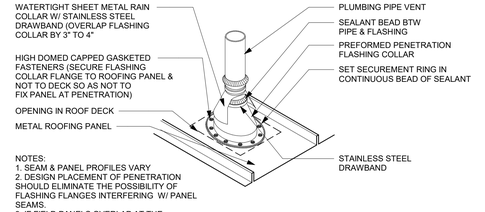
A153



2 DOWN SPOUT DETAIL TYP.
1 1/2" = 1'-0"



NOTES:
1. SEAM & PANEL PROFILES VARY
2. DESIGN PLACEMENT OF PENETRATION SHOULD ELIMINATE THE POSSIBILITY OF FLASHING FLANGES INTERFERING W/ PANEL SEAMS.
3. IF FIELD PANELS OVERLAP AT THE PENETRATION, ATTACHMENT OF THE DOWNSLOPE PANEL, ALONG ITS UPSLOPE END, MAY BE NECESSARY.
4. CUT OVERSIZE HOLE IN ROOF DECK TO ALLOW FOR THERMAL MOVEMENT
5. VENT STACKS & OTHER PIPES SHOULD HAVE A MINIMUM OF 12" [305mm] OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, & OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

1 VENT THROUGH SSM ROOF DETAIL, TYP.
3/4" = 1'-0"

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ROOF DETAILS - STANDING SEAM

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A154

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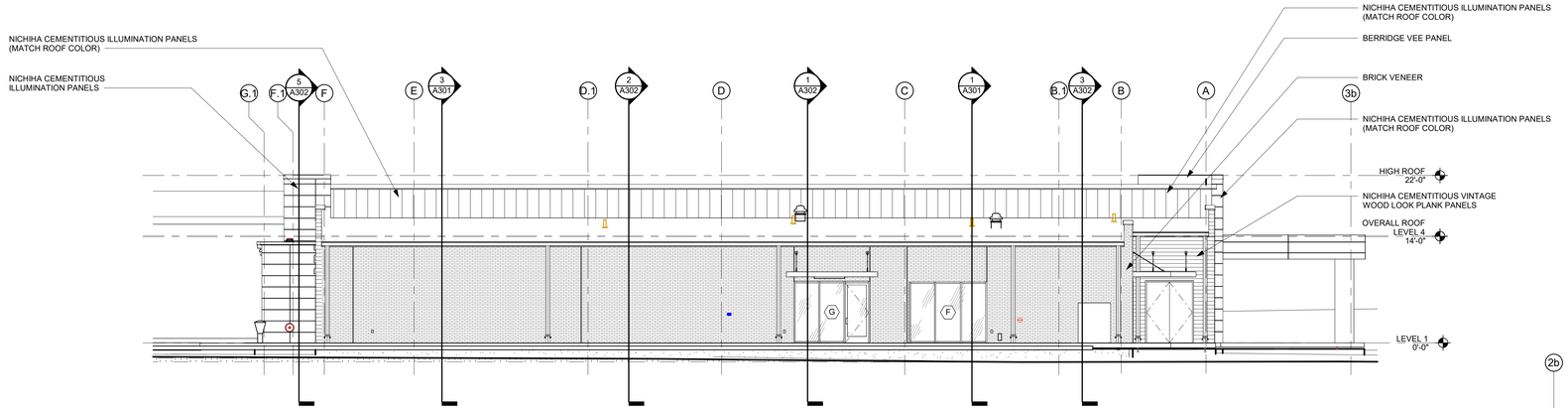
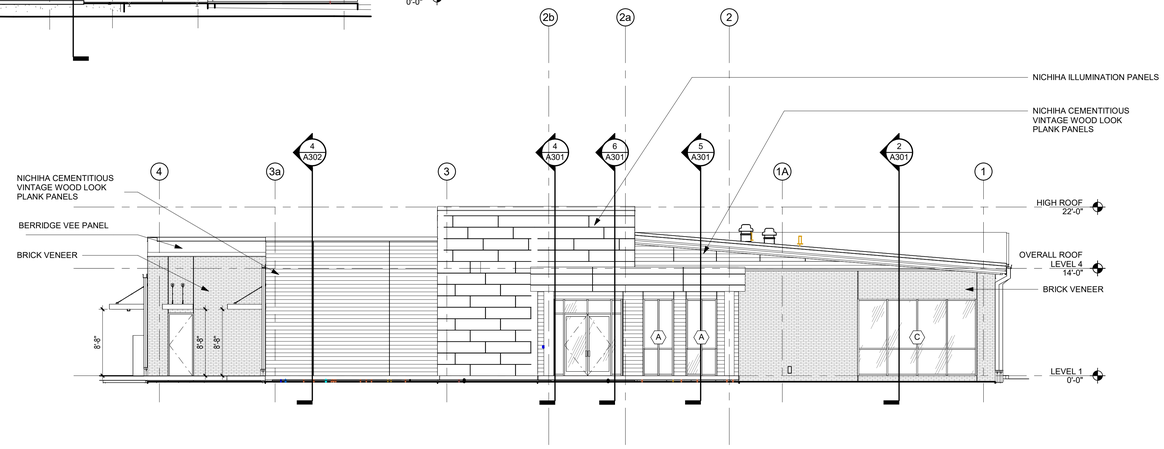
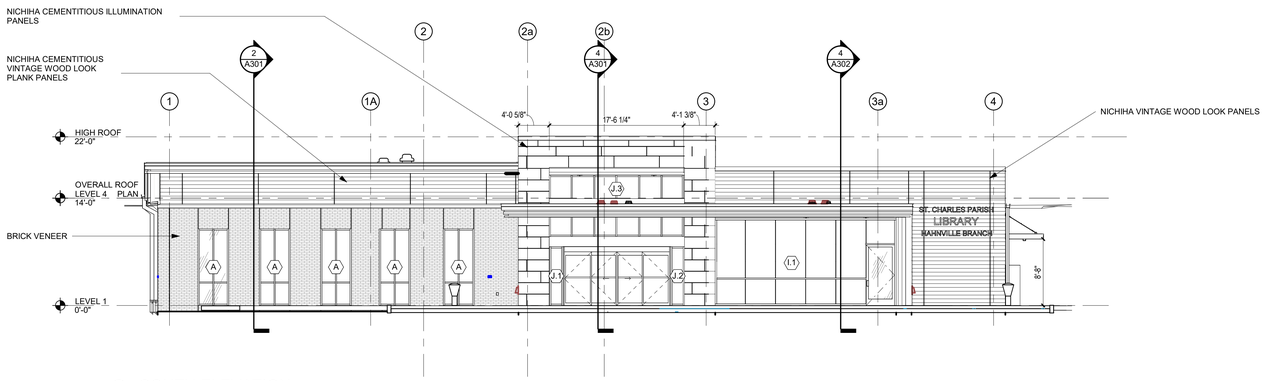


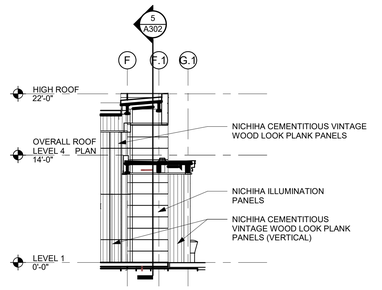
1 EAST ELEVATION
1/8" = 1'-0"



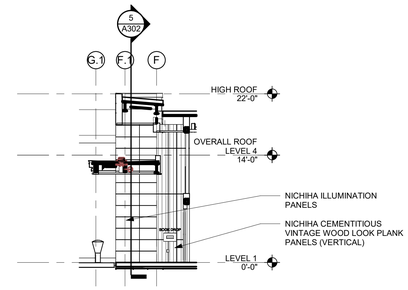
2 NORTH ELEVATION
1/8" = 1'-0"



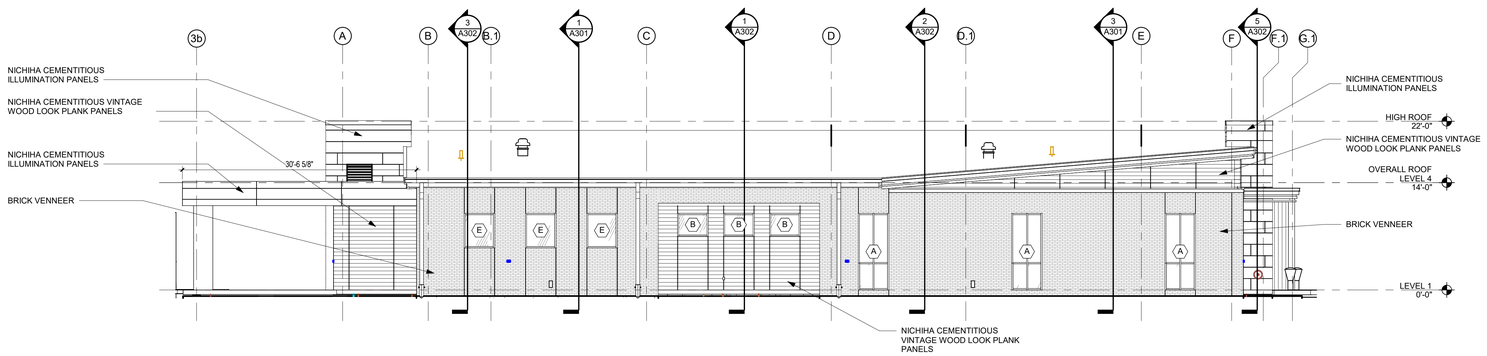
3 SOUTH ELEVATION
1/8" = 1'-0"



6 WEST ENTRY ELEVATION
1/8" = 1'-0"



5 EAST ENTRY ELEVATION
1/8" = 1'-0"



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

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BUILDING ELEVATIONS

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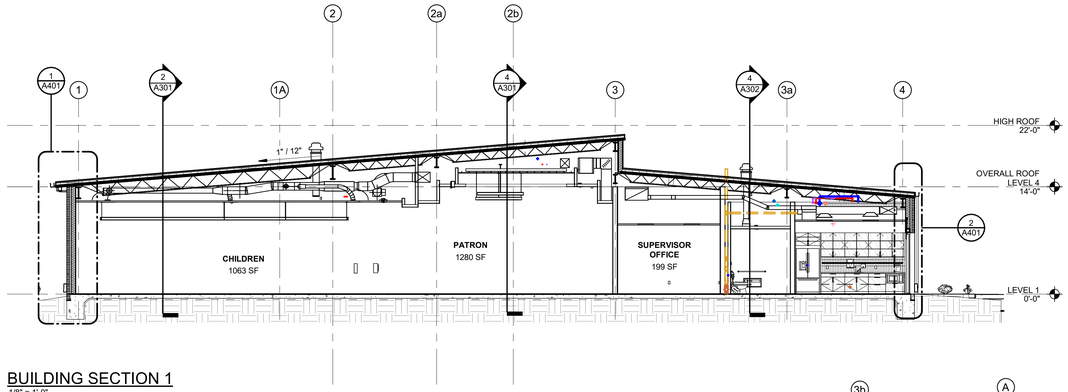
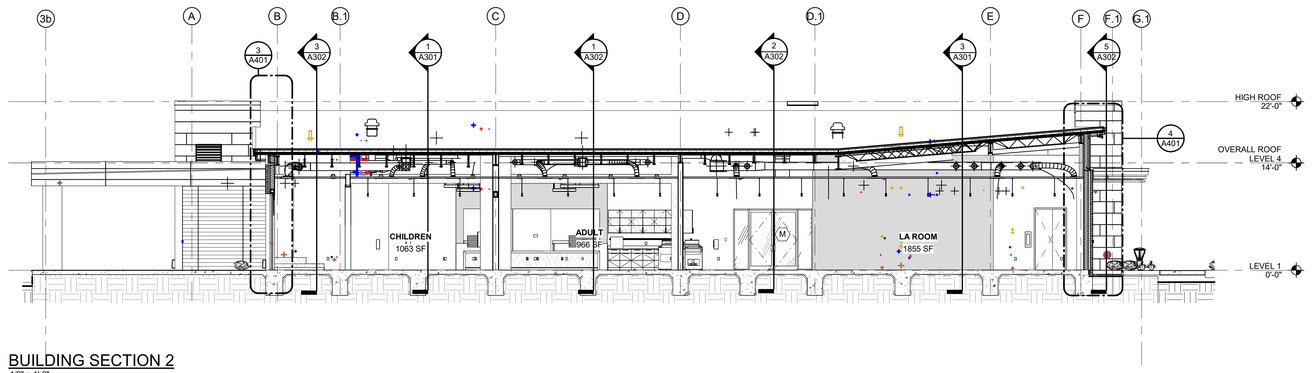
A201



1 BUILDING SECTION 1
1/8" = 1'-0"



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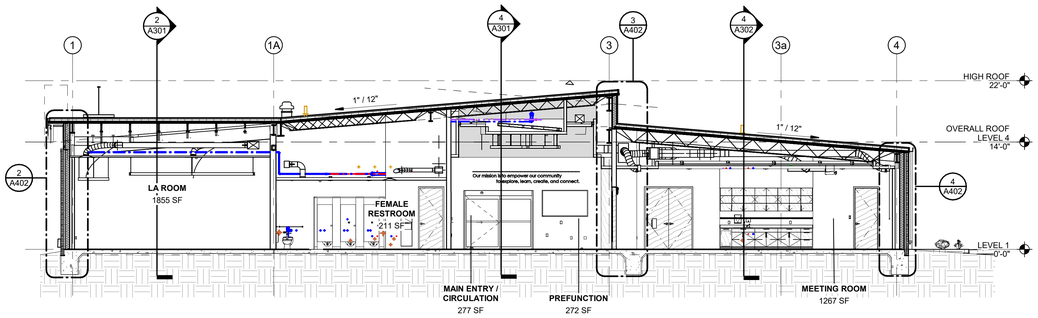

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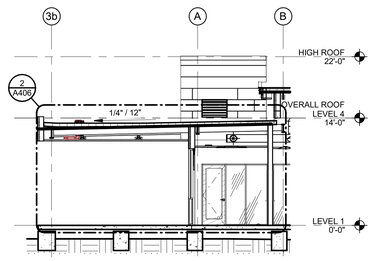
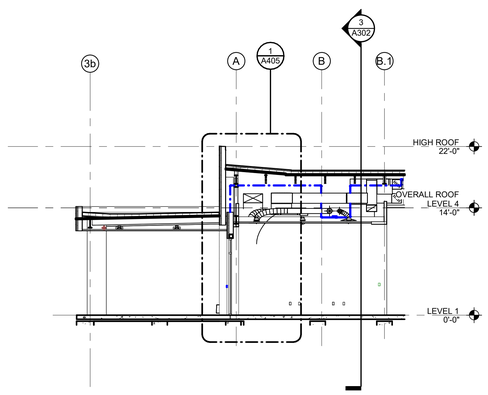


5 BUILDING SECTION 10
1/8" = 1'-0"



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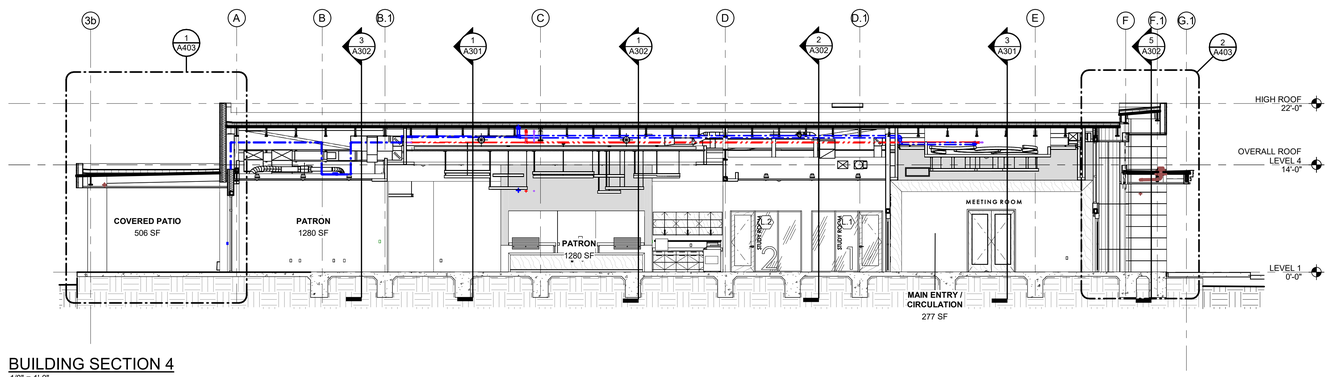
1/8" = 1'-0"



4 BUILDING SECTION 4
1/8" = 1'-0"

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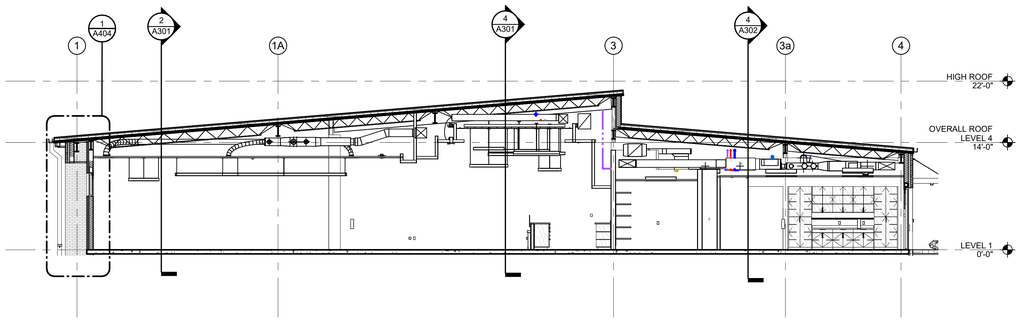

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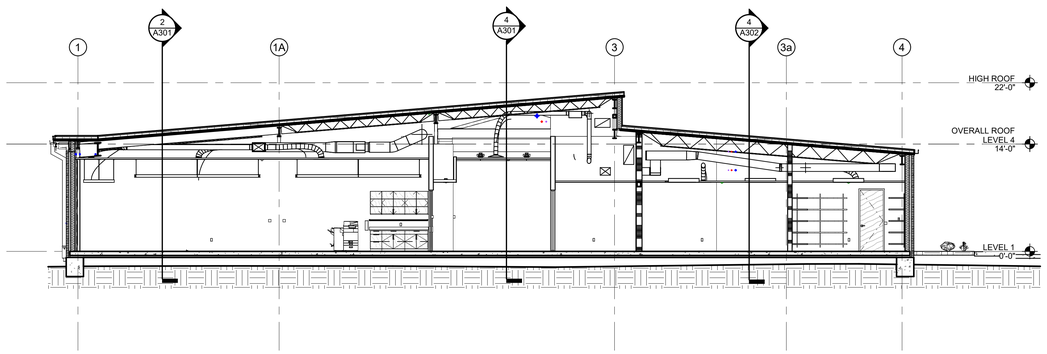

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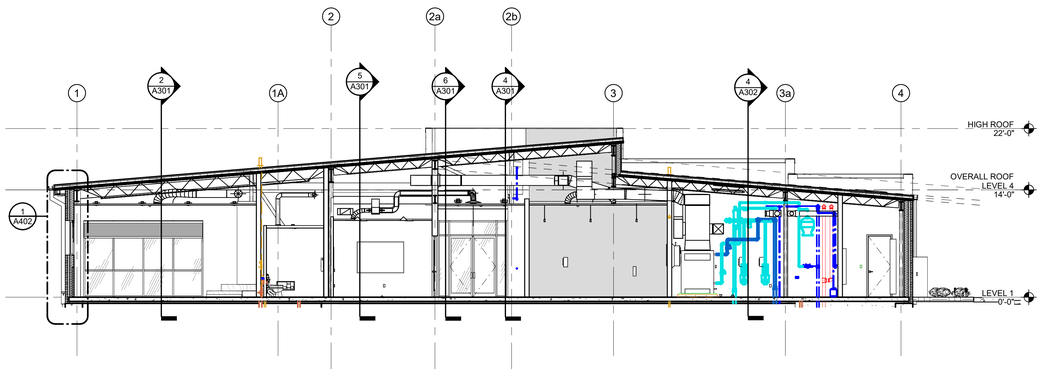

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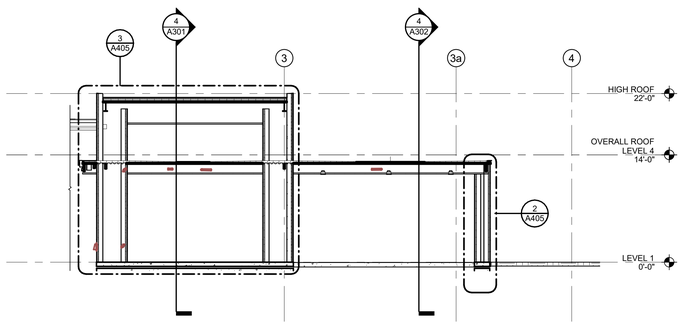

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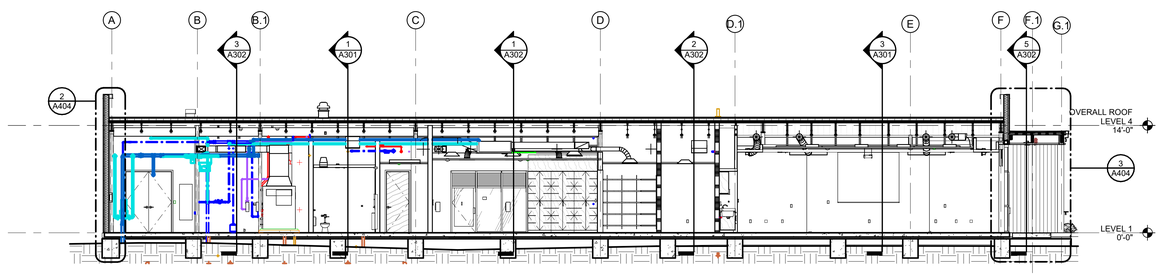

4 BUILDING SECTION 8
1/8" = 1'-0"

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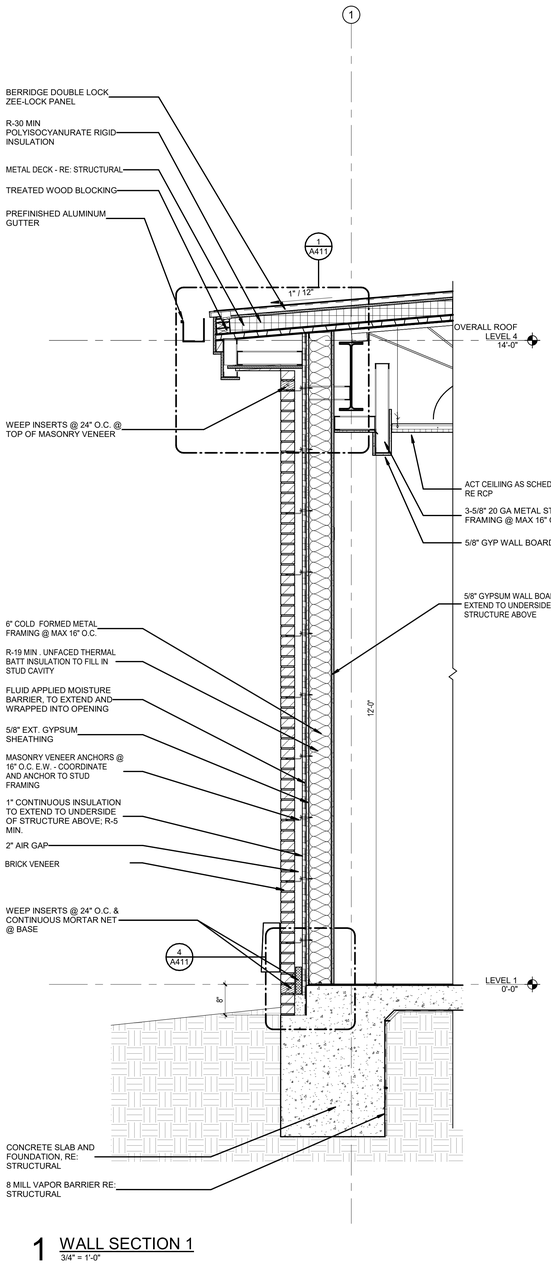

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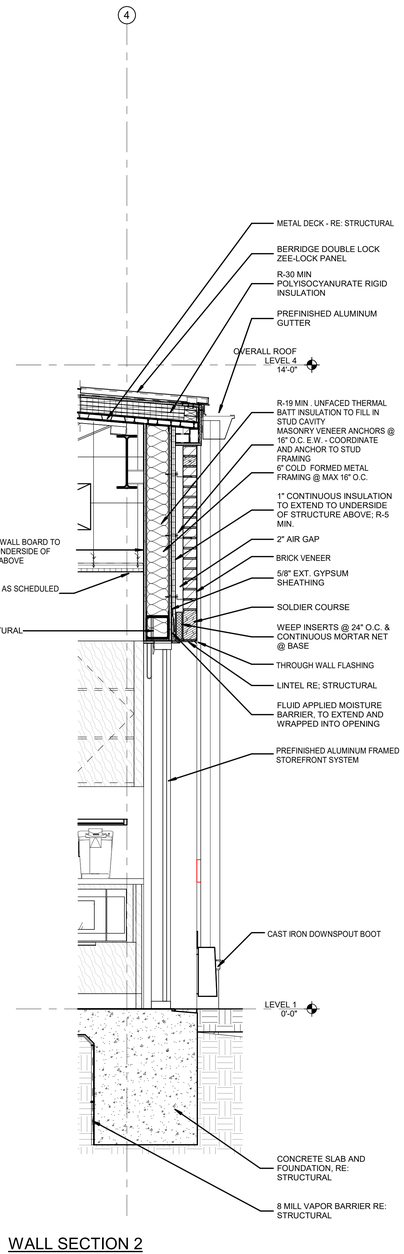

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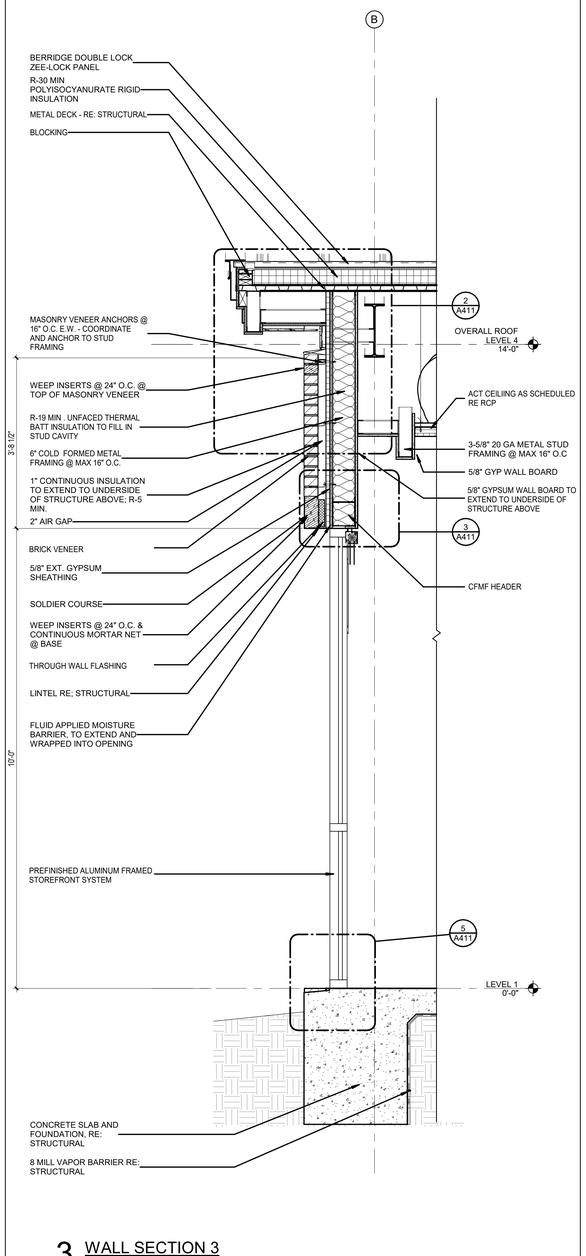
3/4" = 1'-0"



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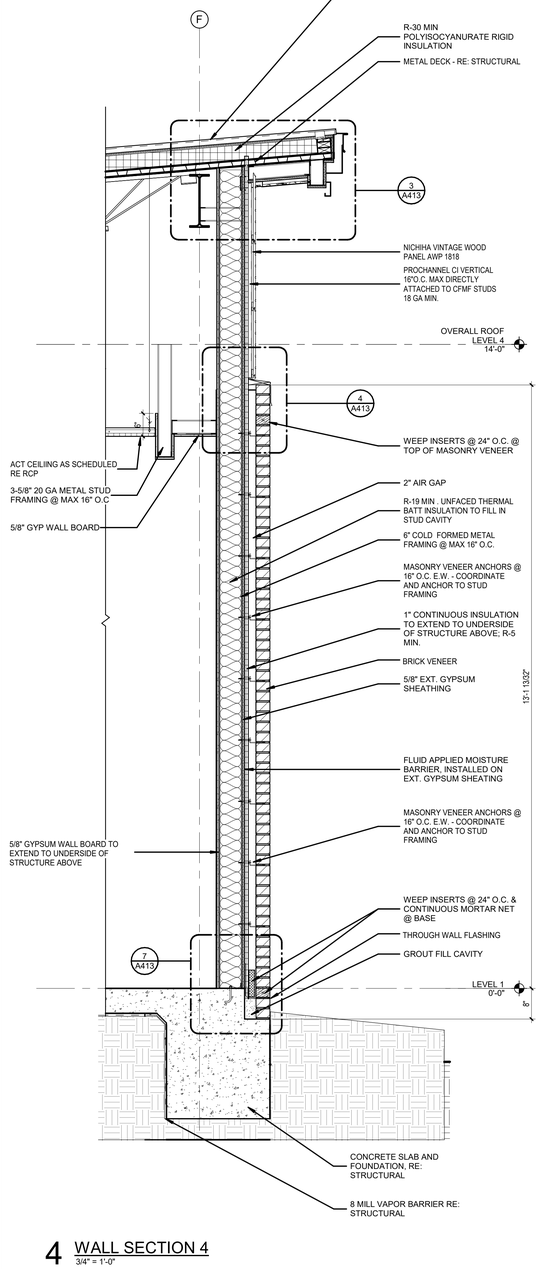
3/4" = 1'-0"



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

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A401

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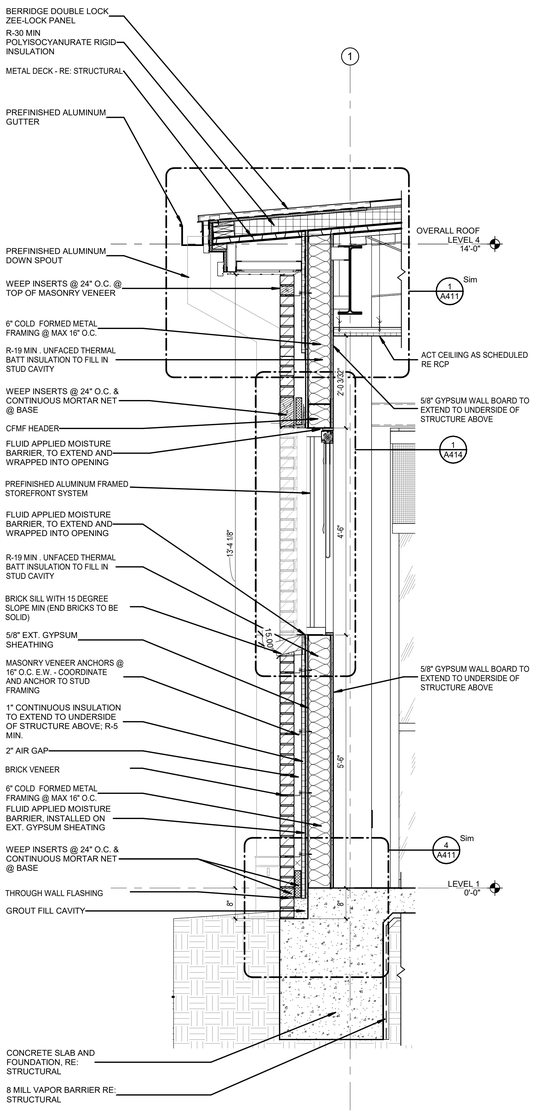

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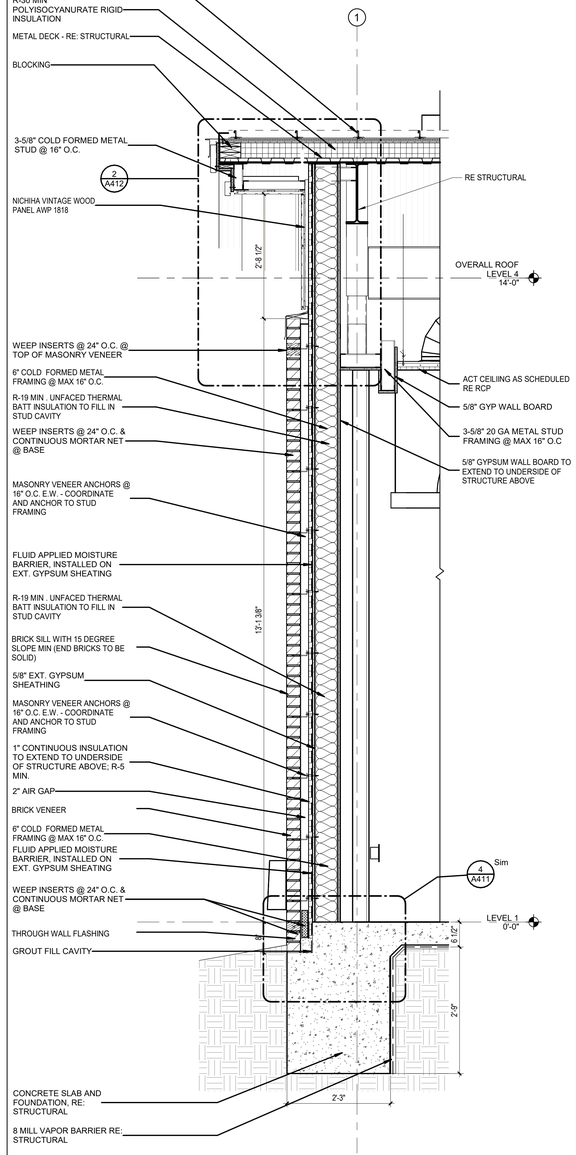

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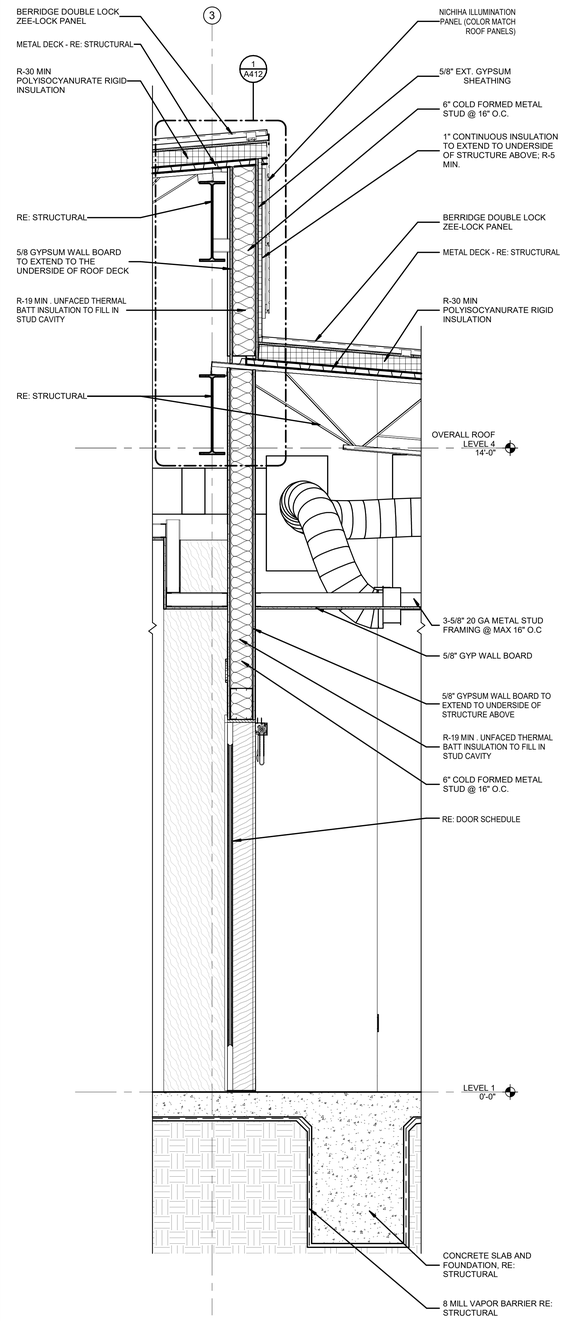

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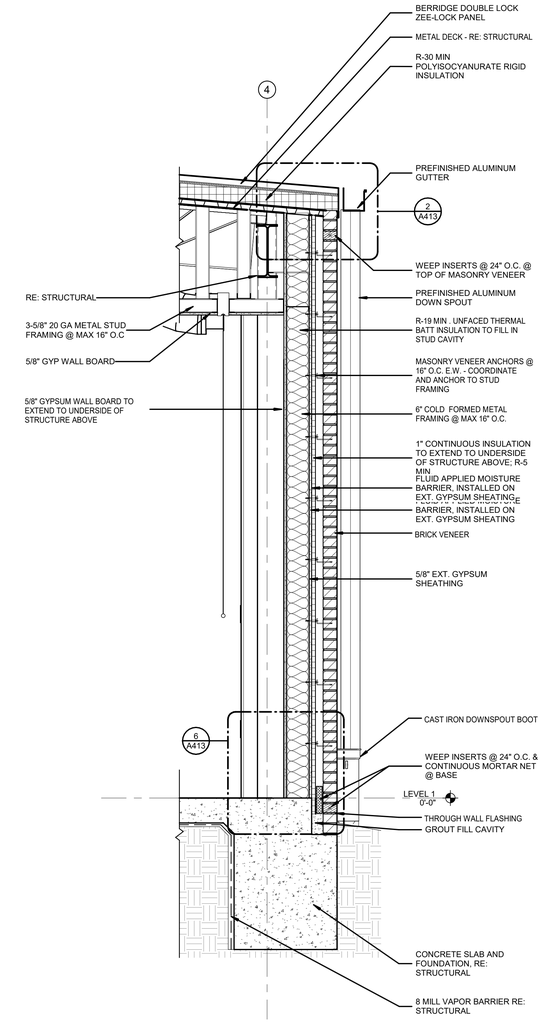

4 WALL SECTION 8
3/4" = 1'-0"

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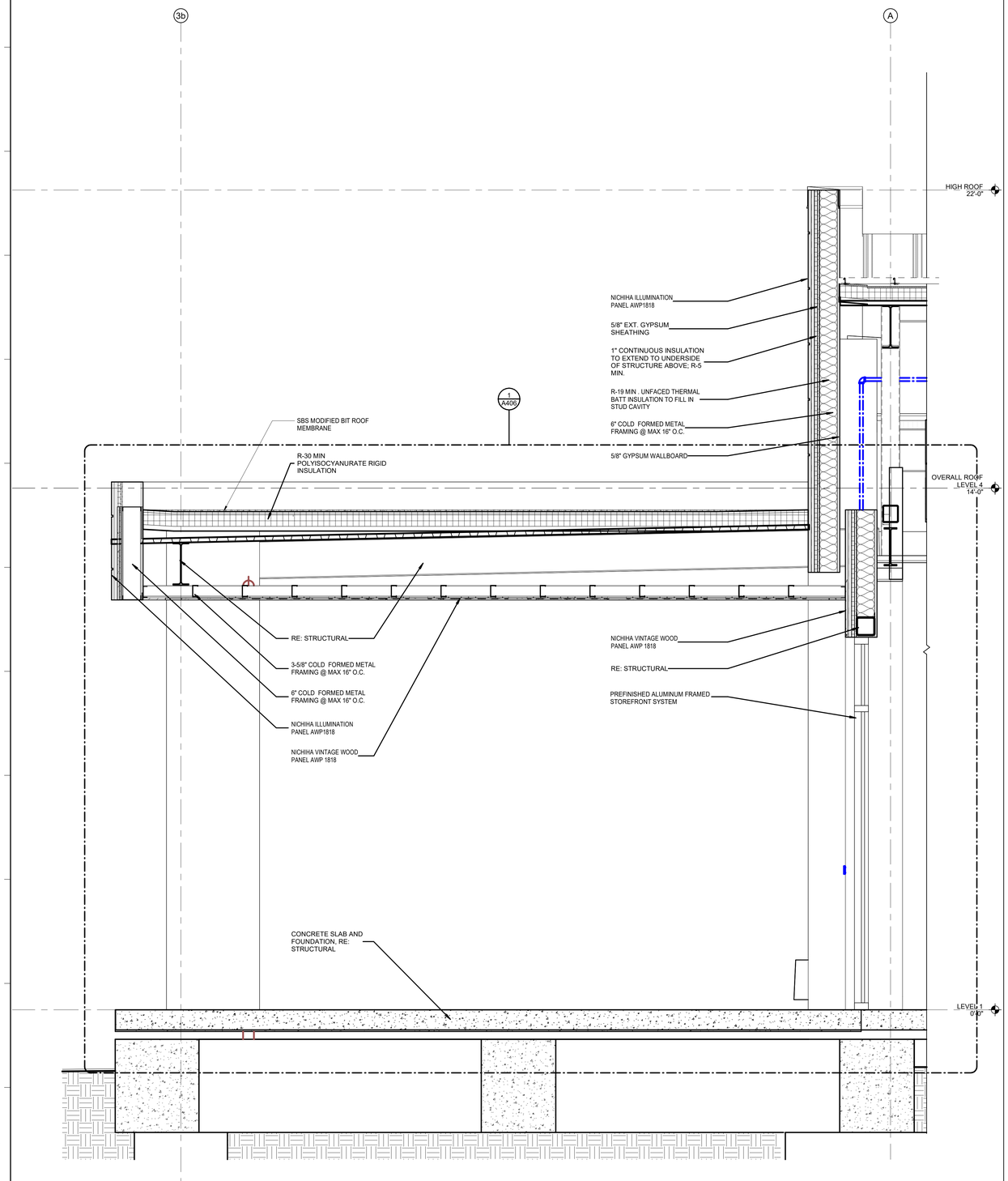
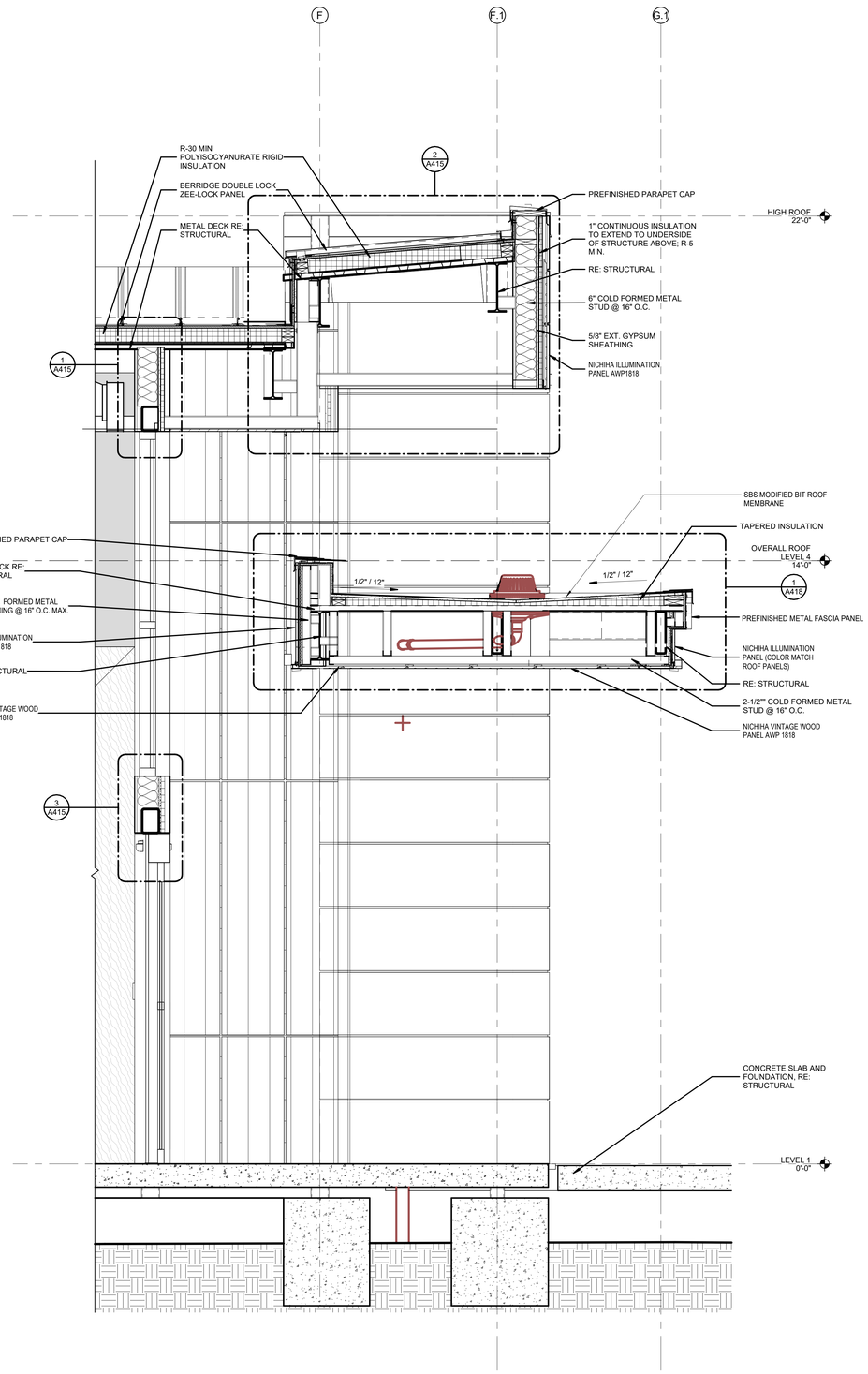


1 WALL SECTION 9
3/4" = 1'-0"



2 WAL LSECTINO 10
3/4" = 1'-0"

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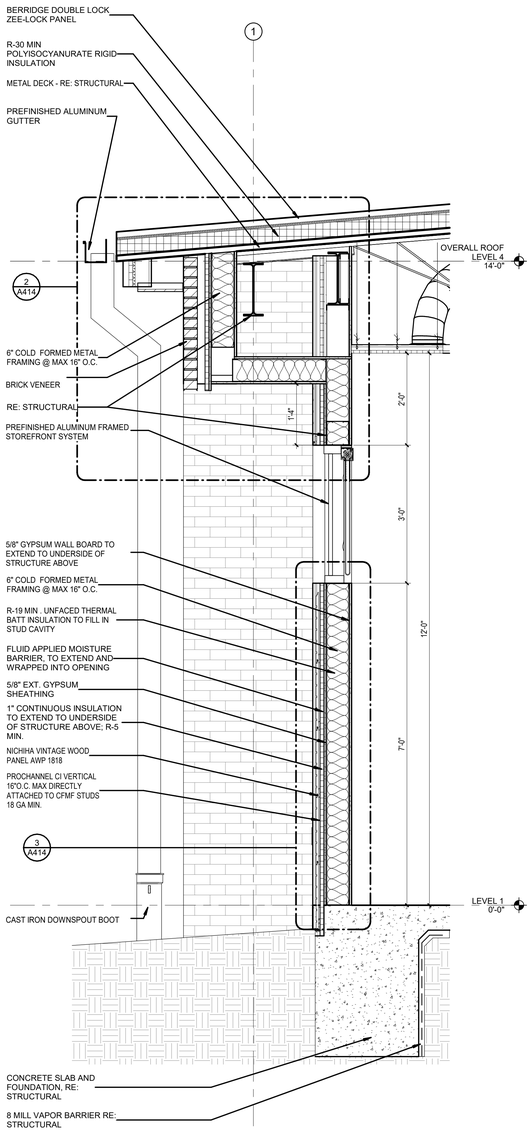

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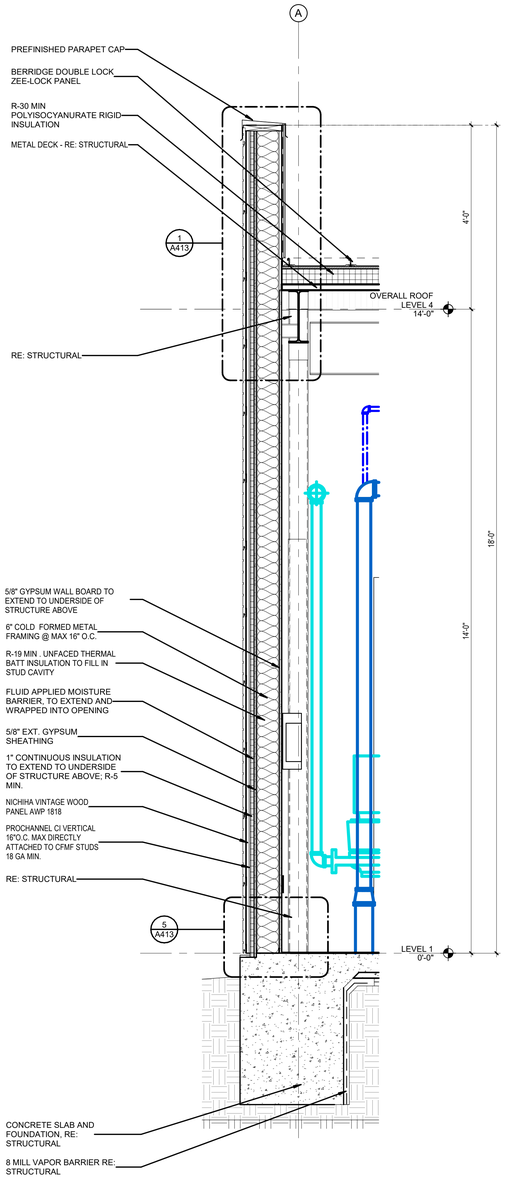
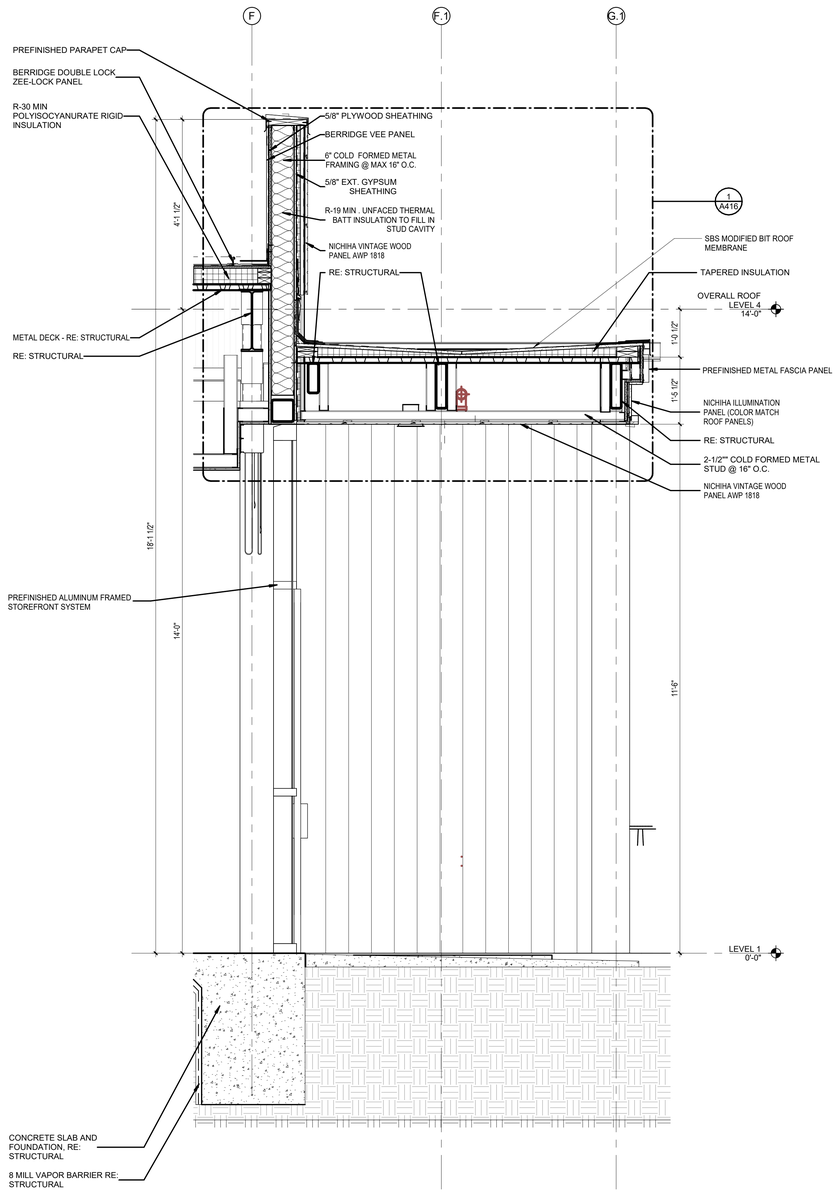
3/4" = 1'-0"



2 WALL SECTION 12
3/4" = 1'-0"



3 WALL SECTION 13
3/4" = 1'-0"

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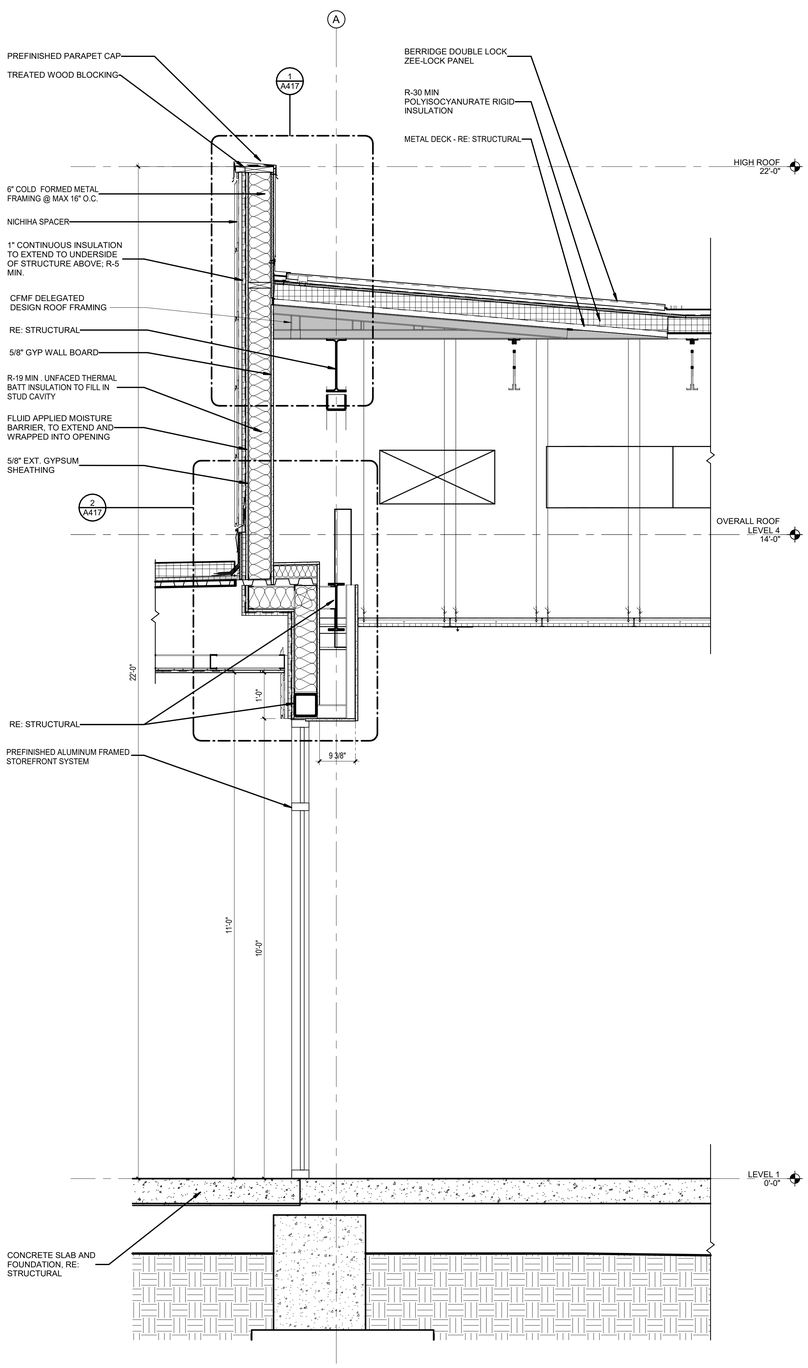

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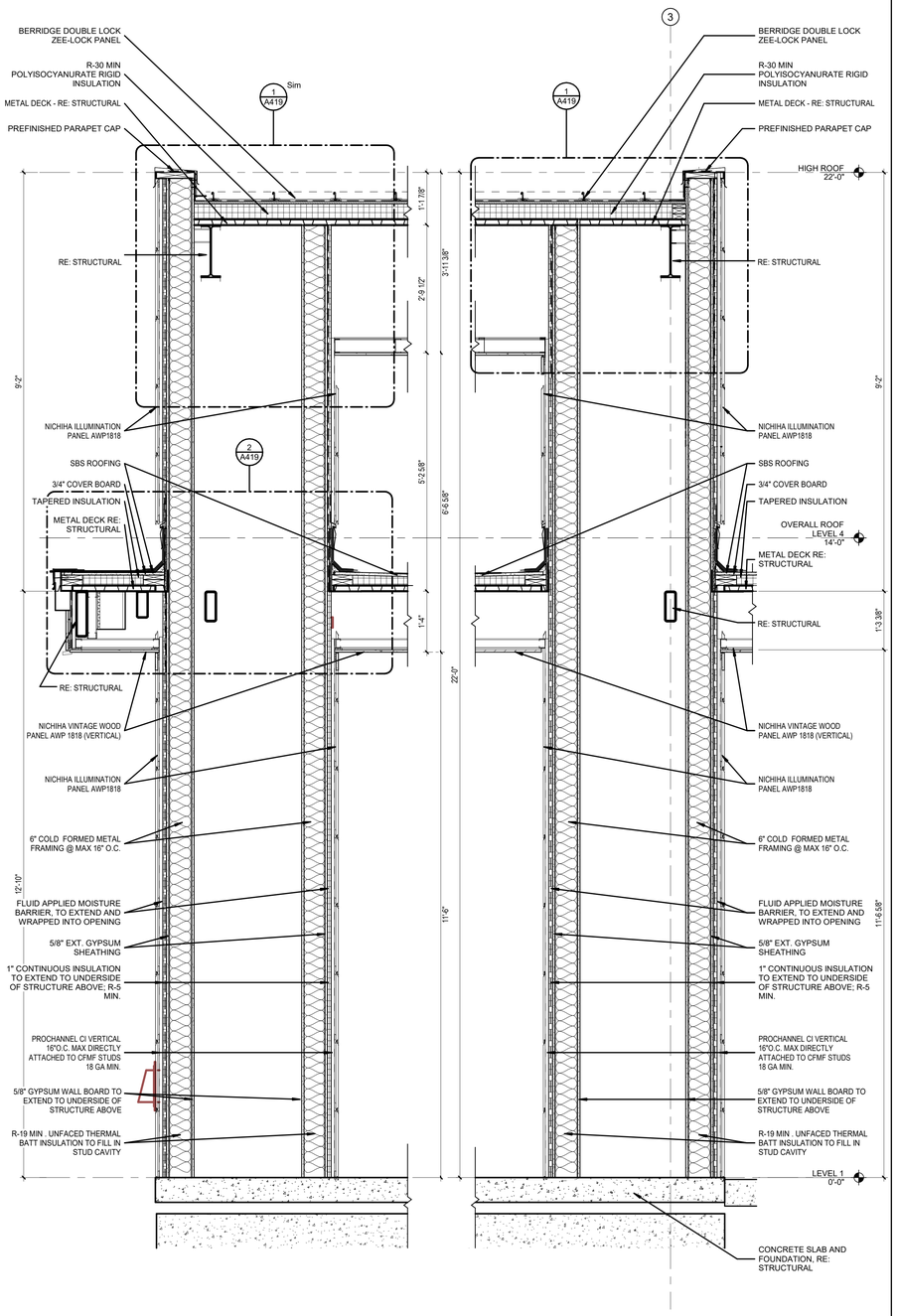

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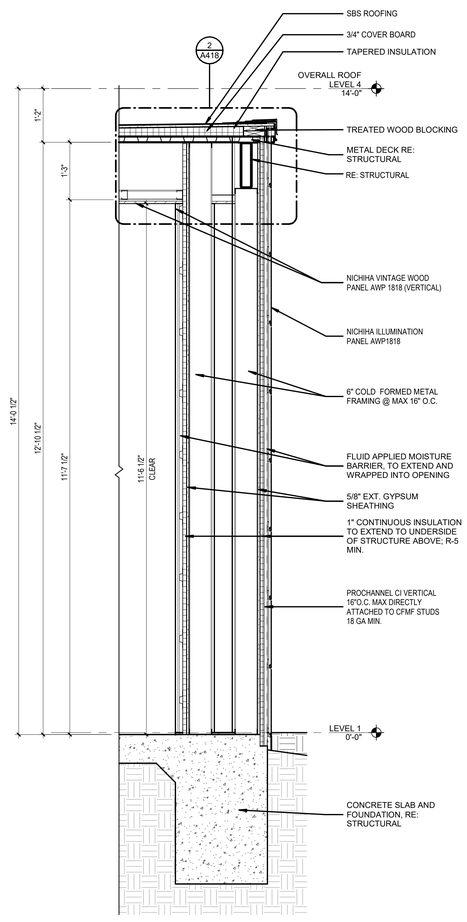

2 WALL SECTION 16
3/4" = 1'-0"

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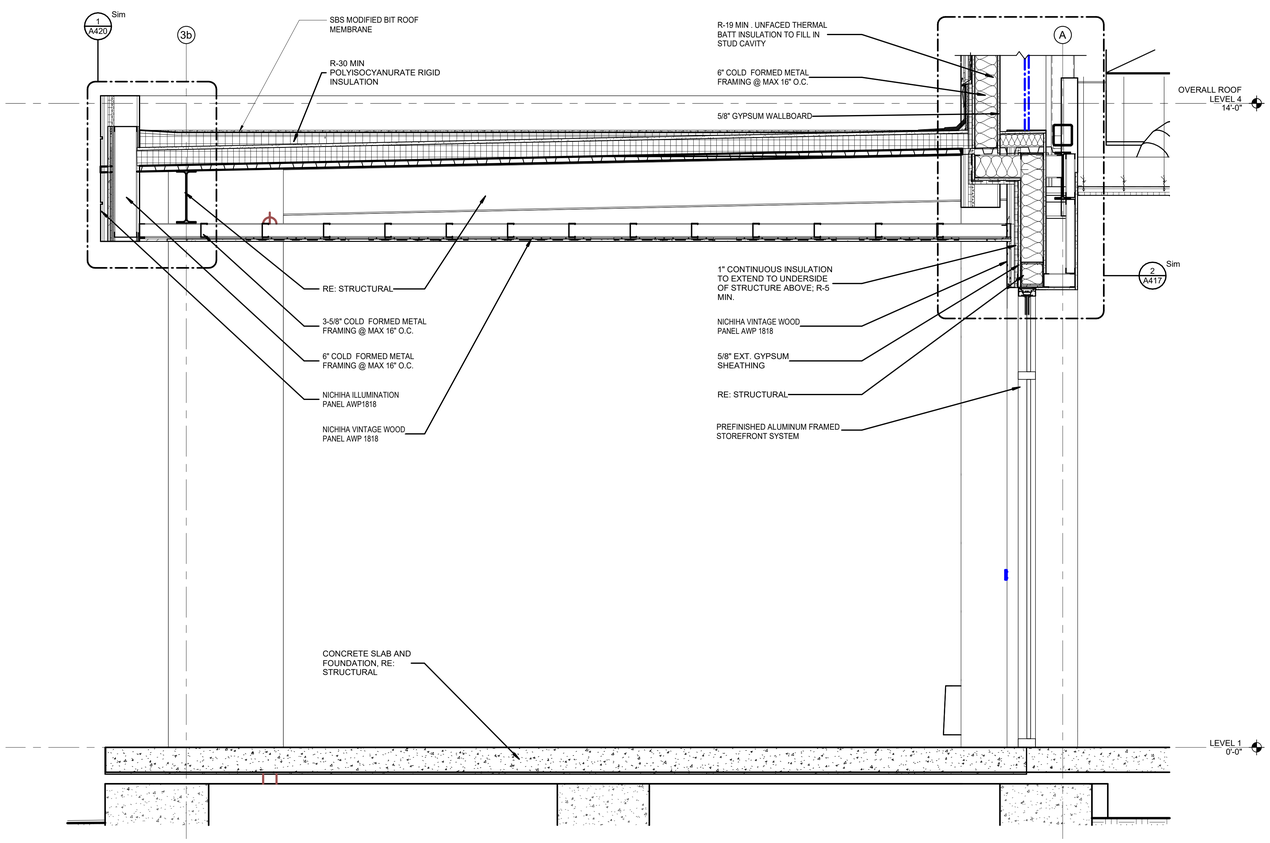

1 WALL SECTION 17
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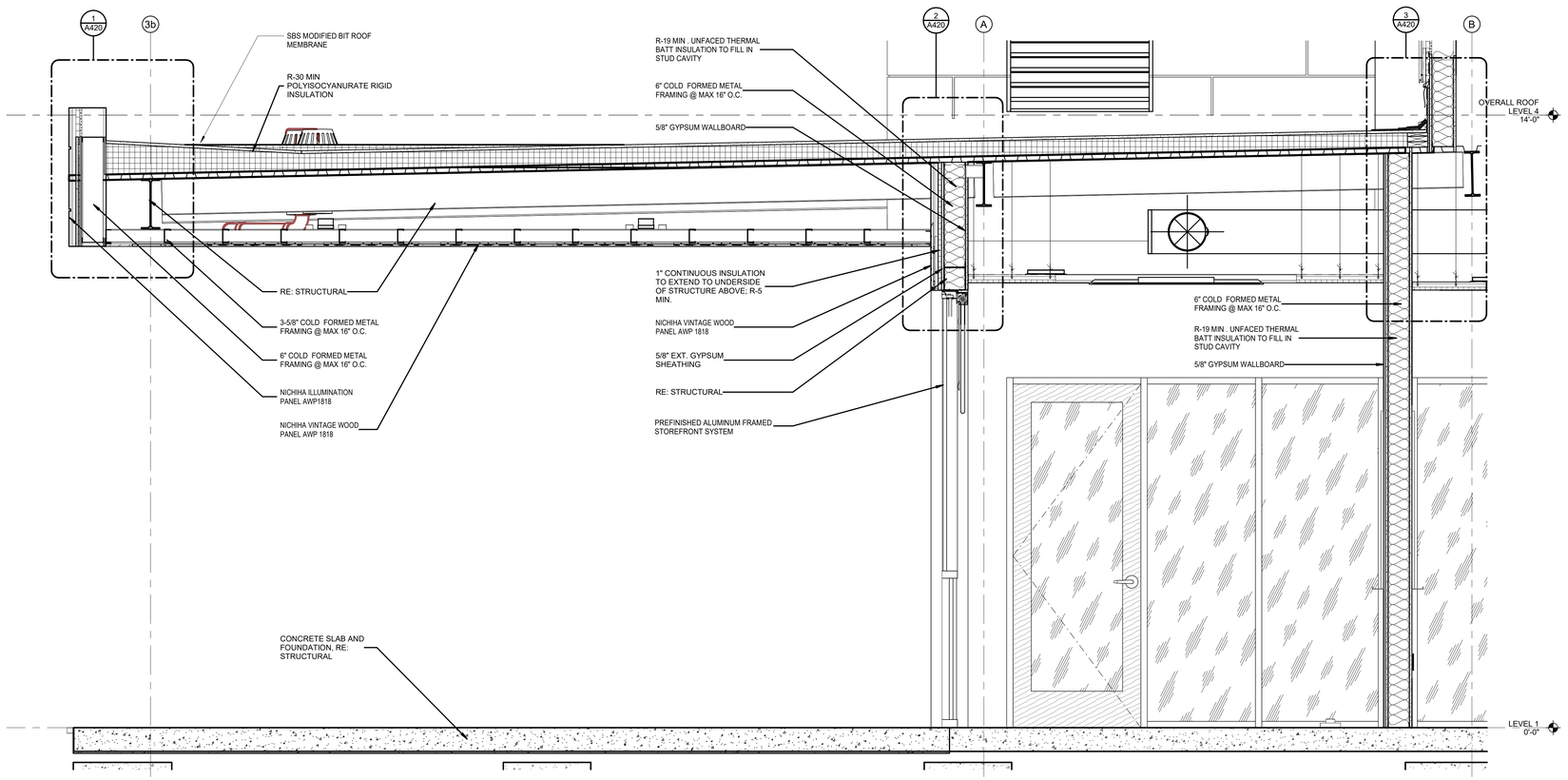

2 WALL SECTION 18
3/4" = 1'-0"

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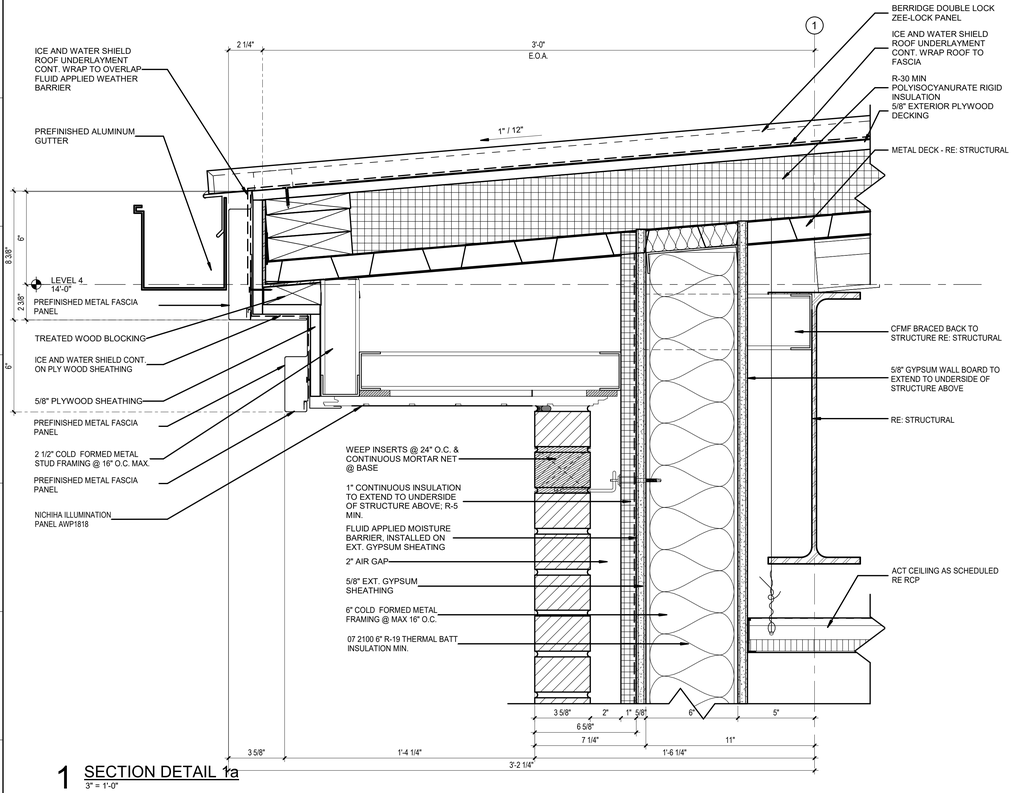

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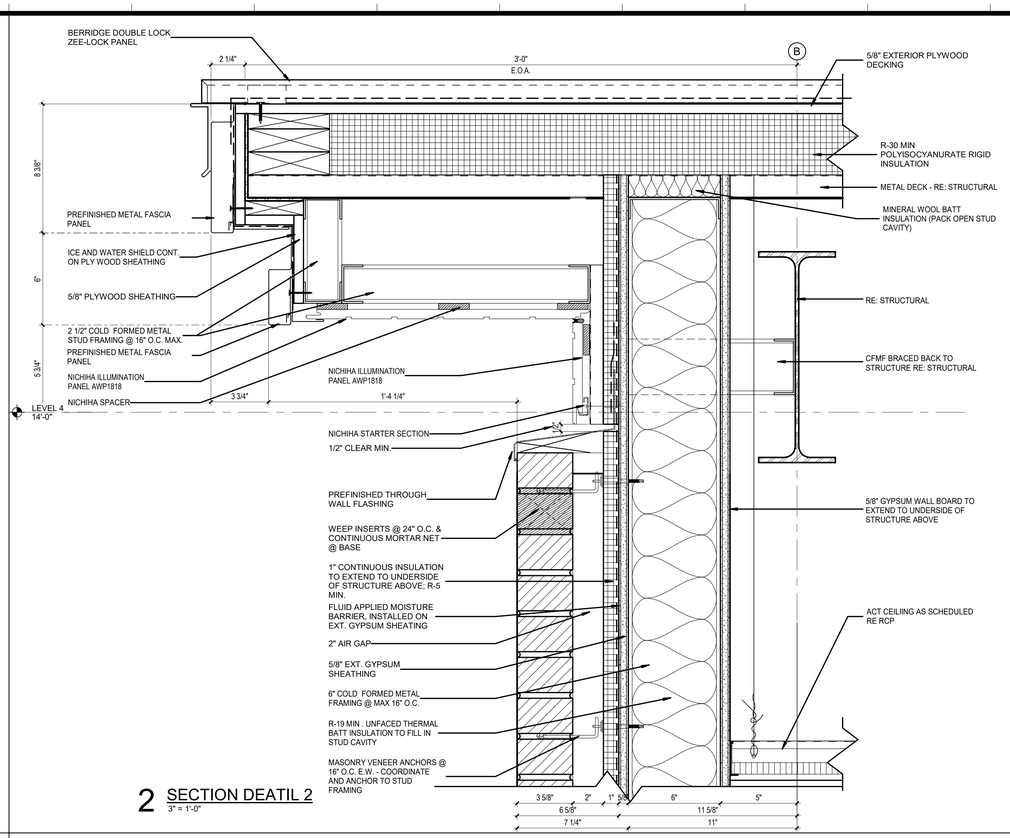
3" = 1'-0"



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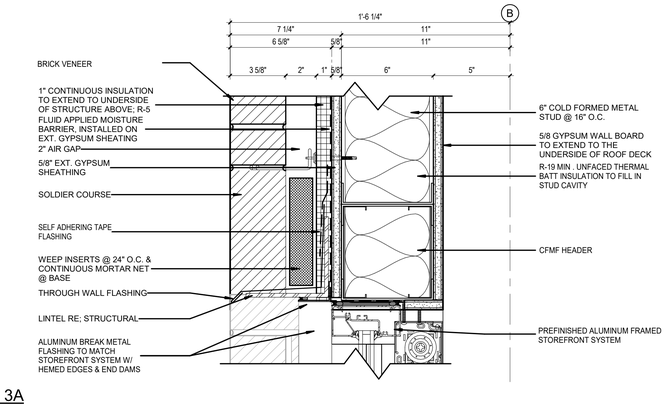

3 SECTIN DETAIL 3A
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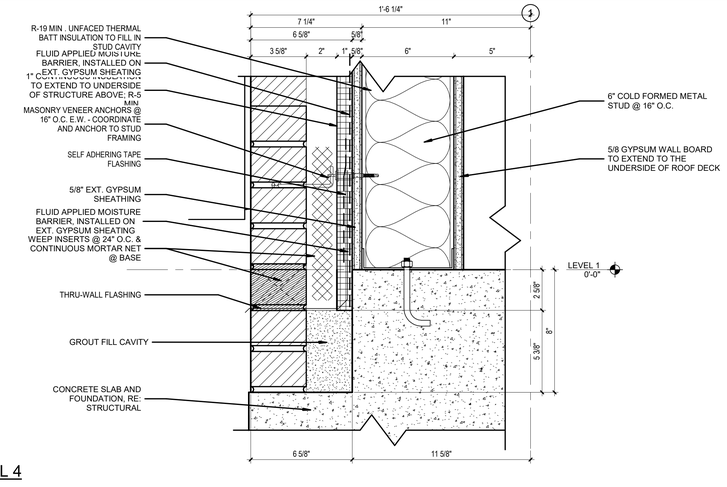

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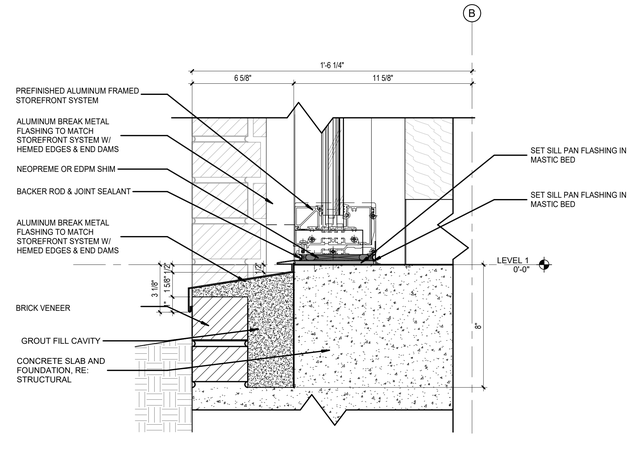

5 SECTION DETAIL 5
3" = 1'-0"

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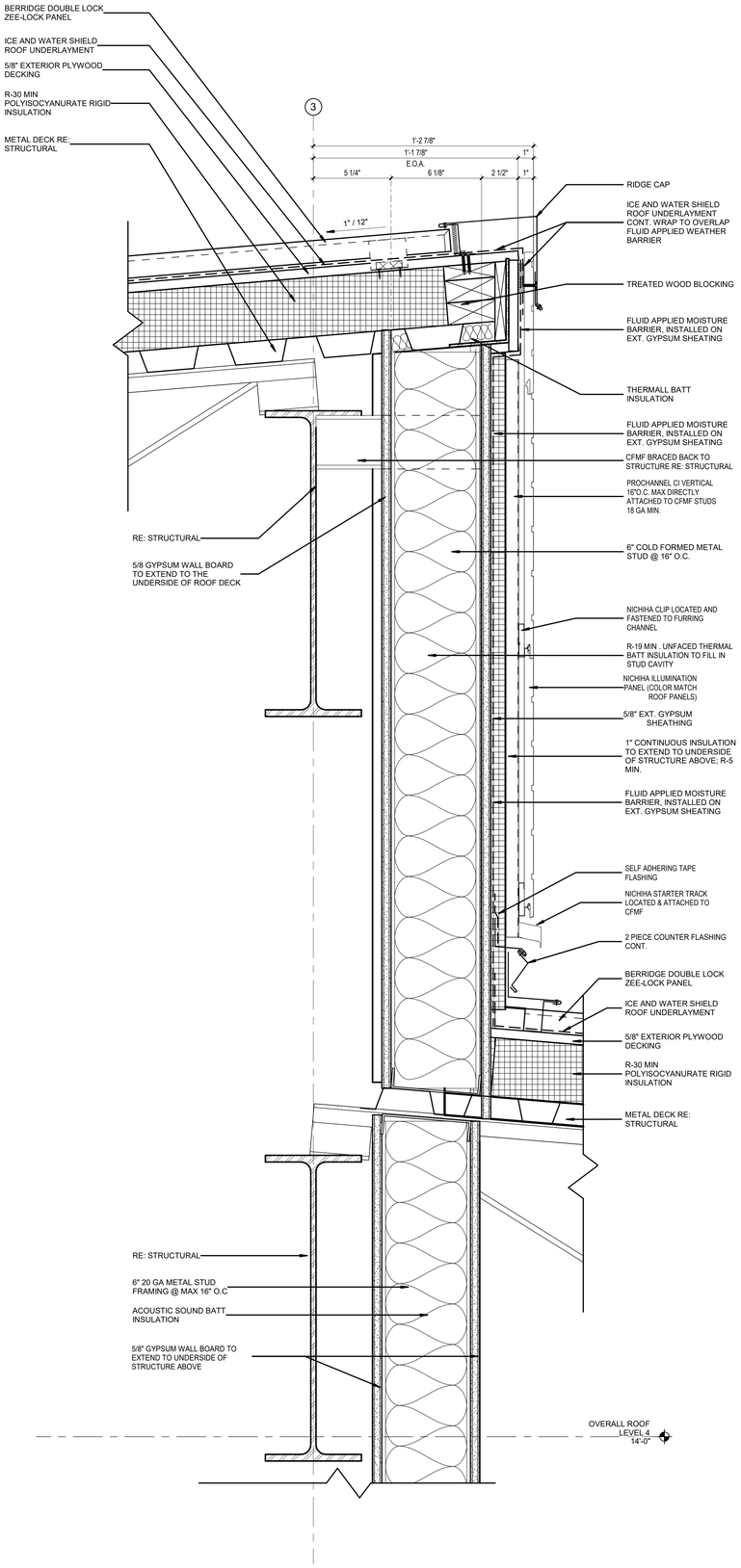
SECTION DETAILS

SHEET NUMBER
A411



1 SECTION DETAIL 6
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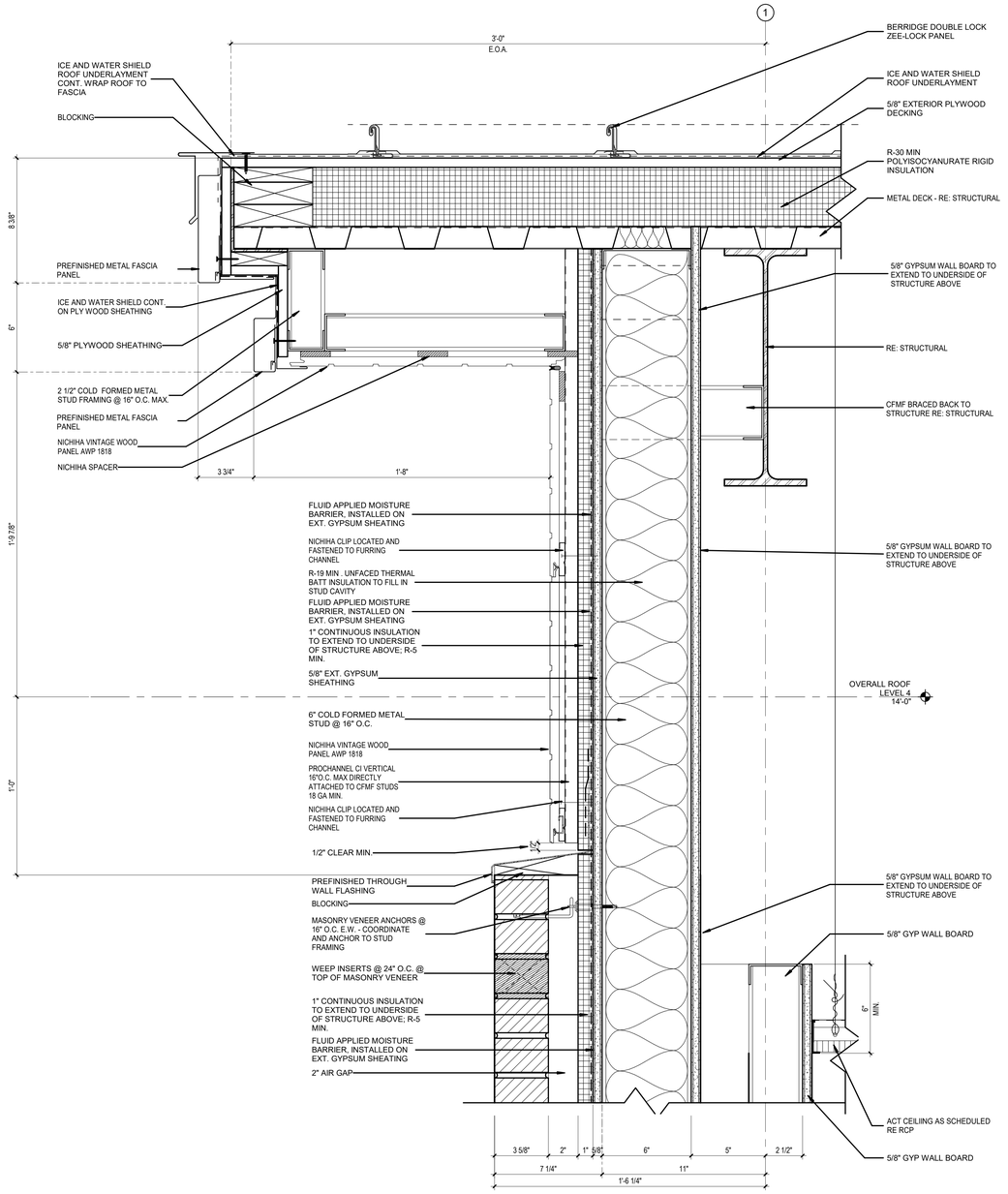

2 SECTION DETAIL 7
3" = 1'-0"

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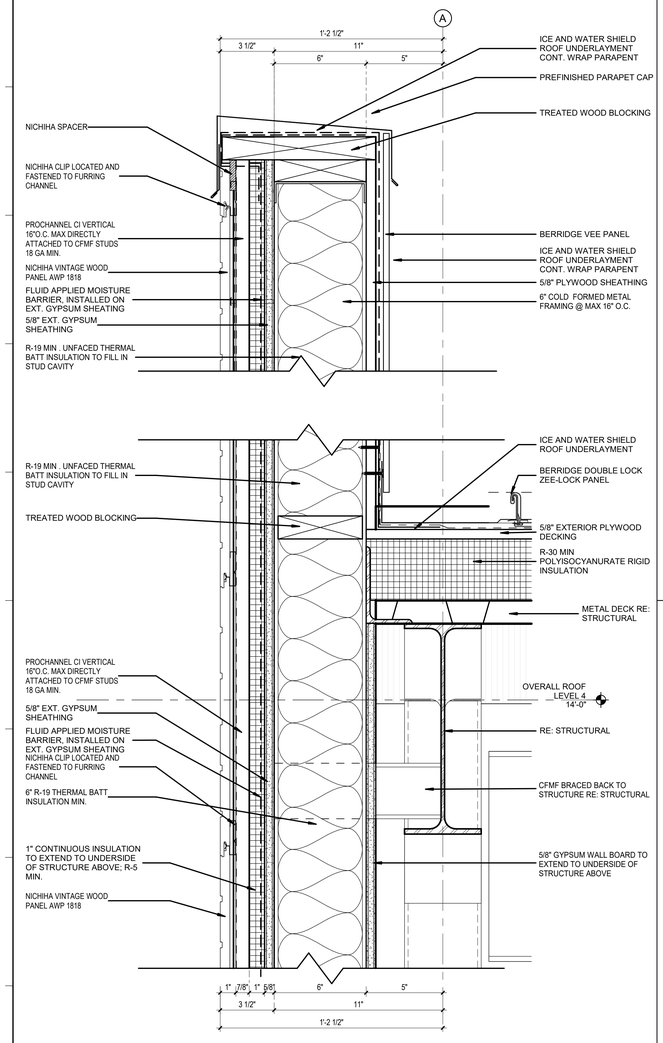

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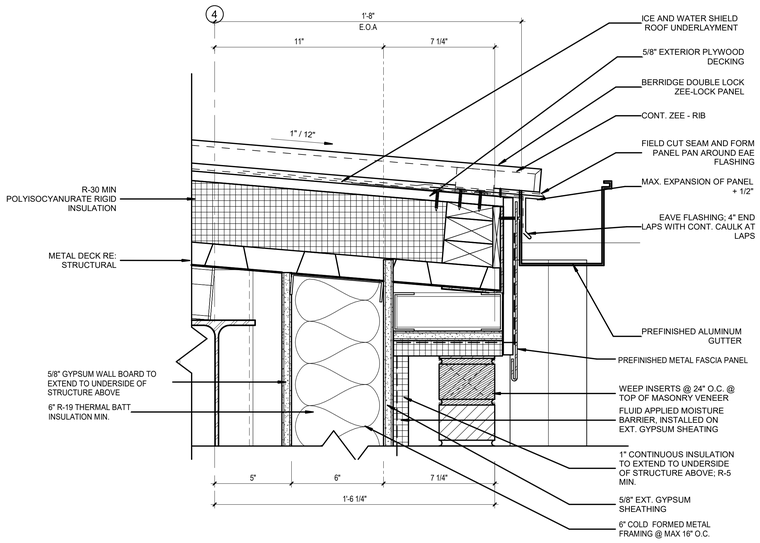

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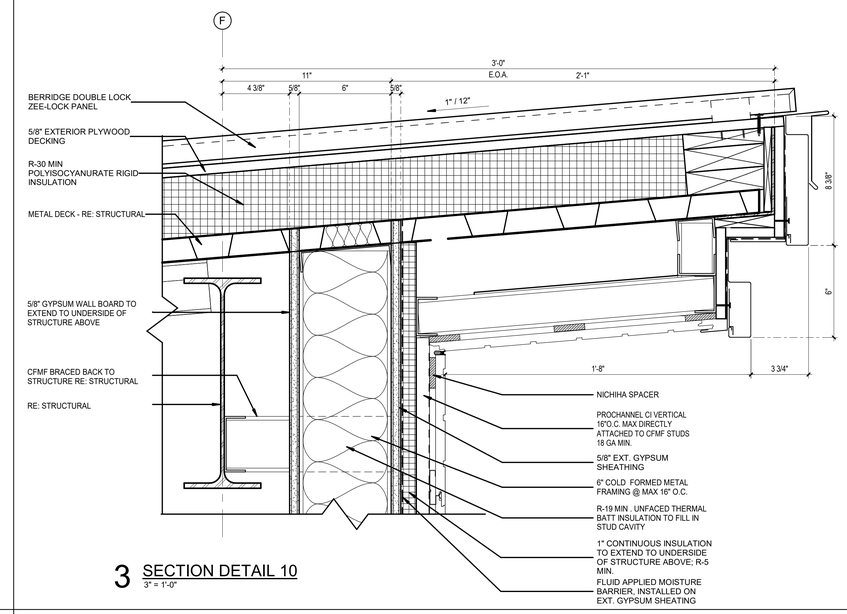

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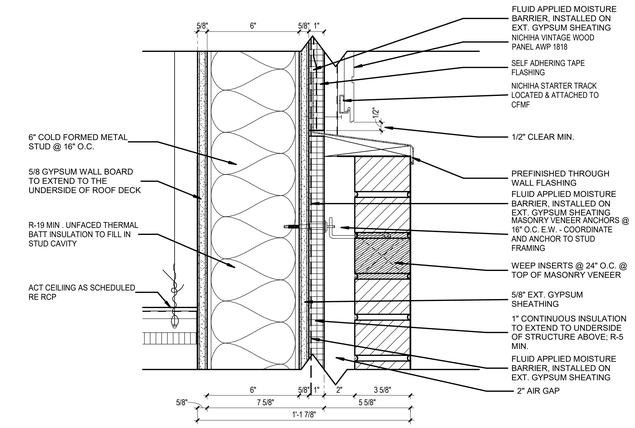

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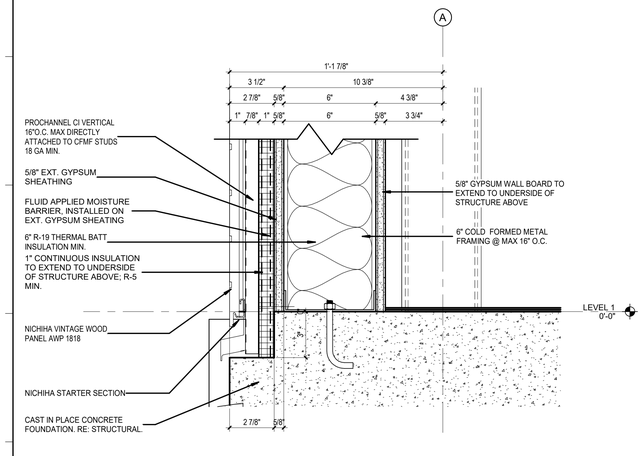

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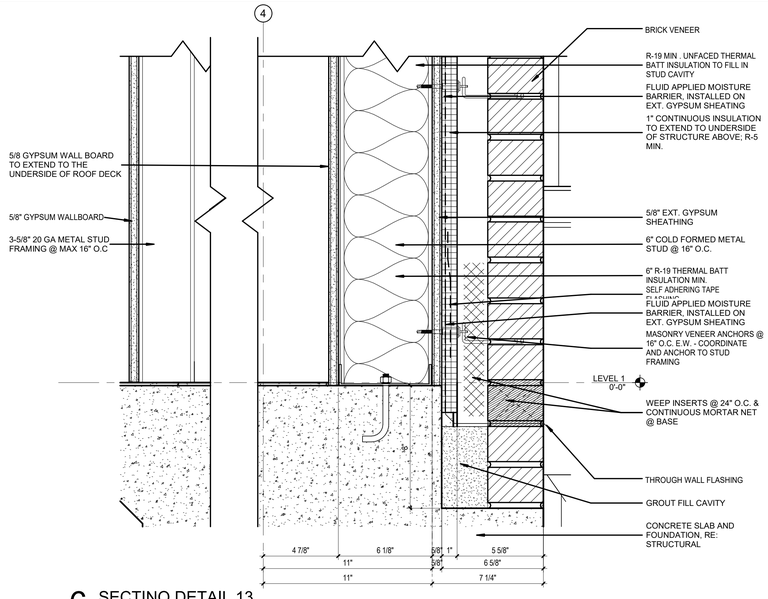

6 SECTINO DETAIL 13
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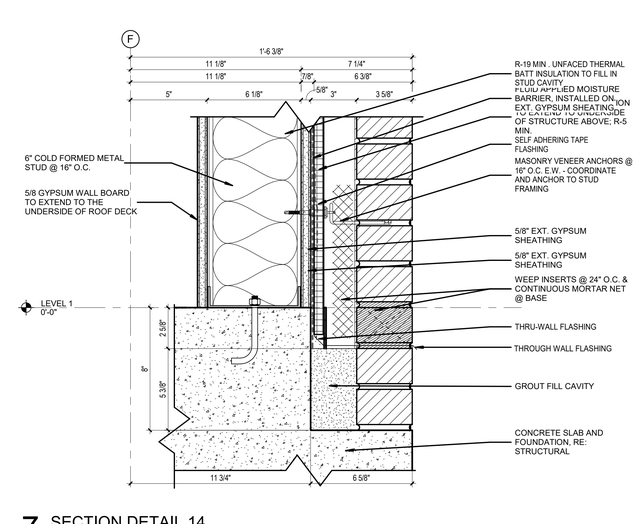

7 SECTION DETAIL 14
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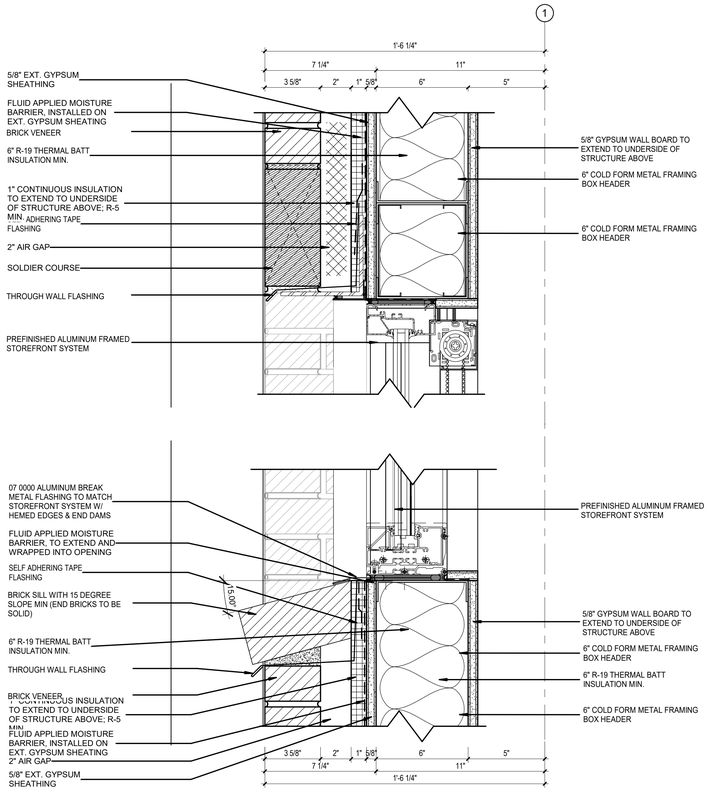

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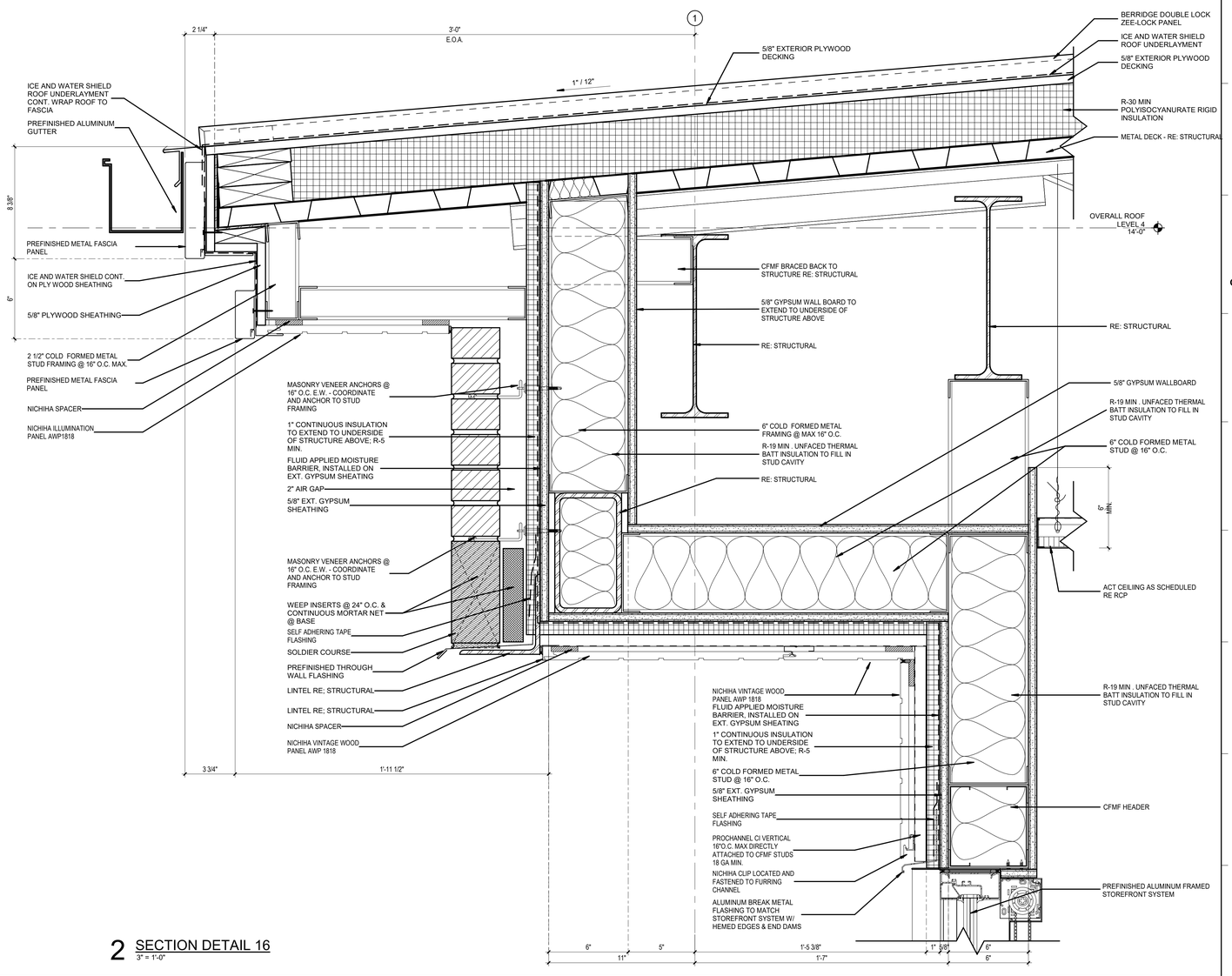

2 SECTION DETAIL 16
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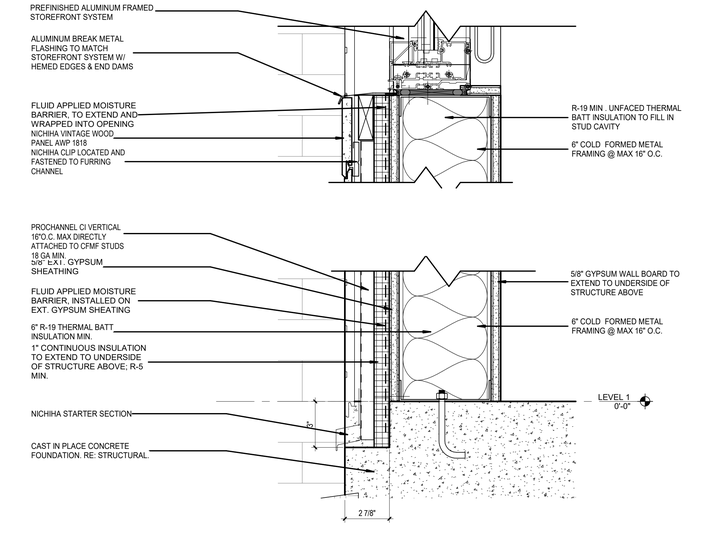

3 SECTION DETAIL 17
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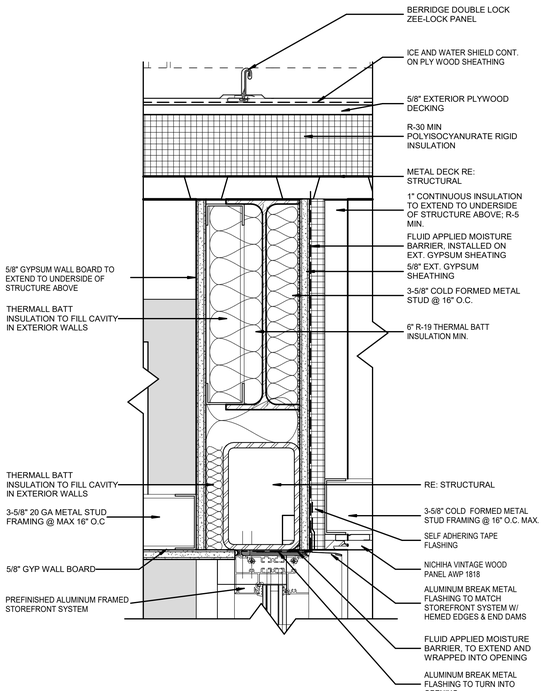

1 SECTION DETAIL 18
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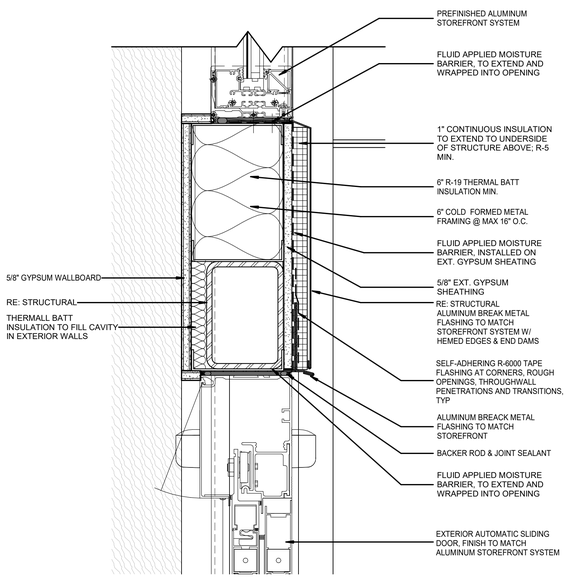

3 SECTION DETAIL 19
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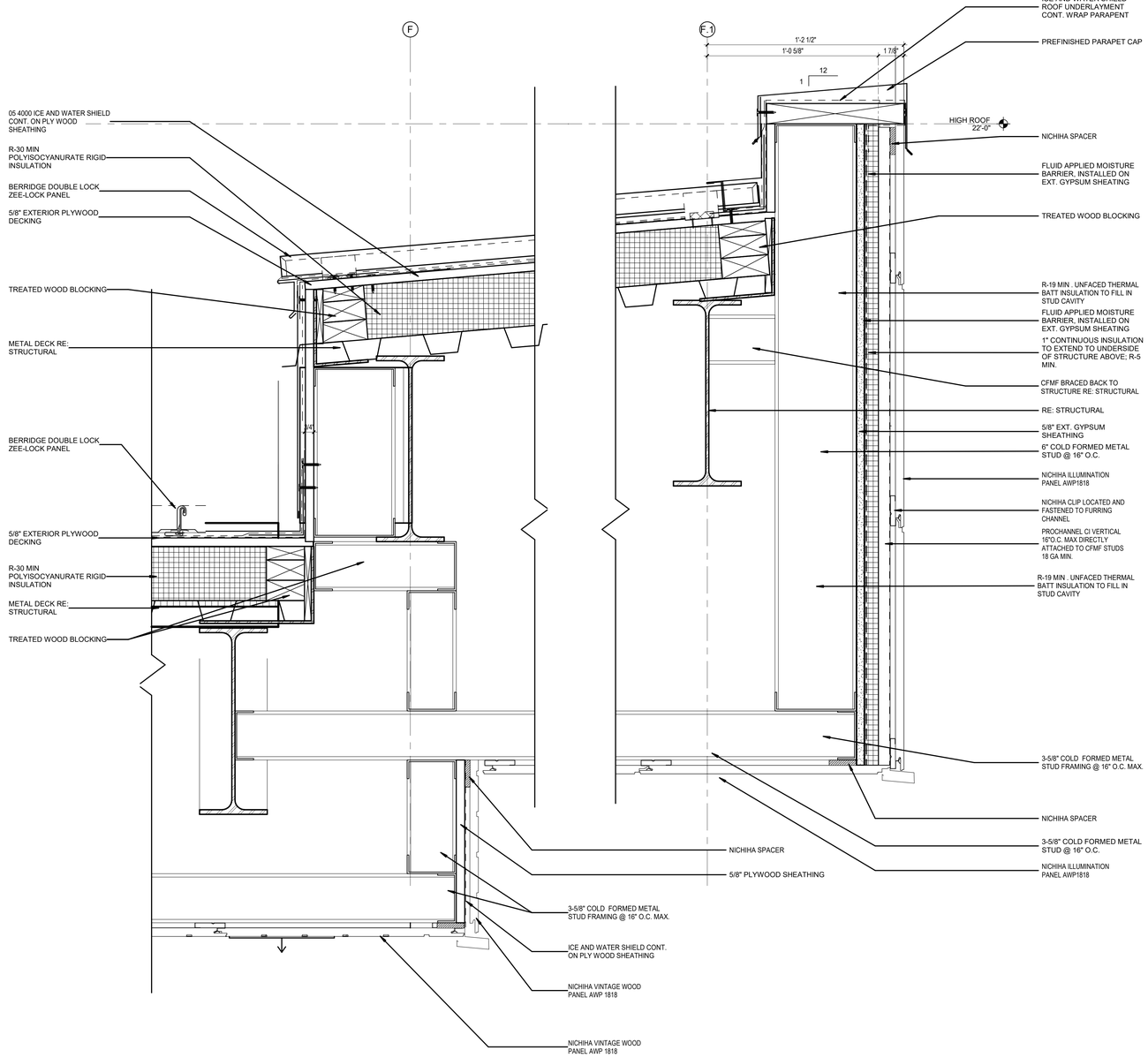

2 SECTION DETAIL 20
3" = 1'-0"

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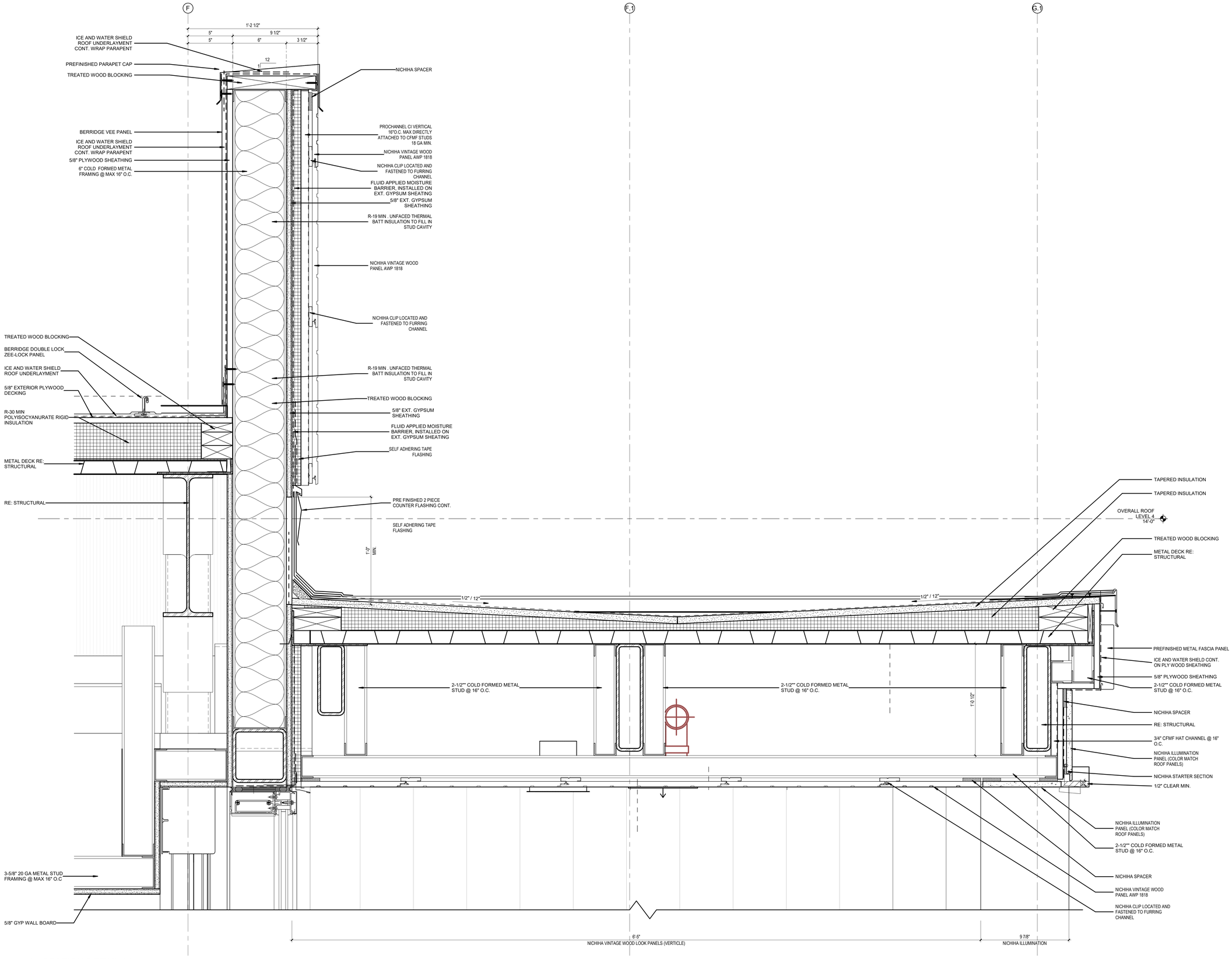

1 SECTION DETAIL 21
3" = 1'-0"

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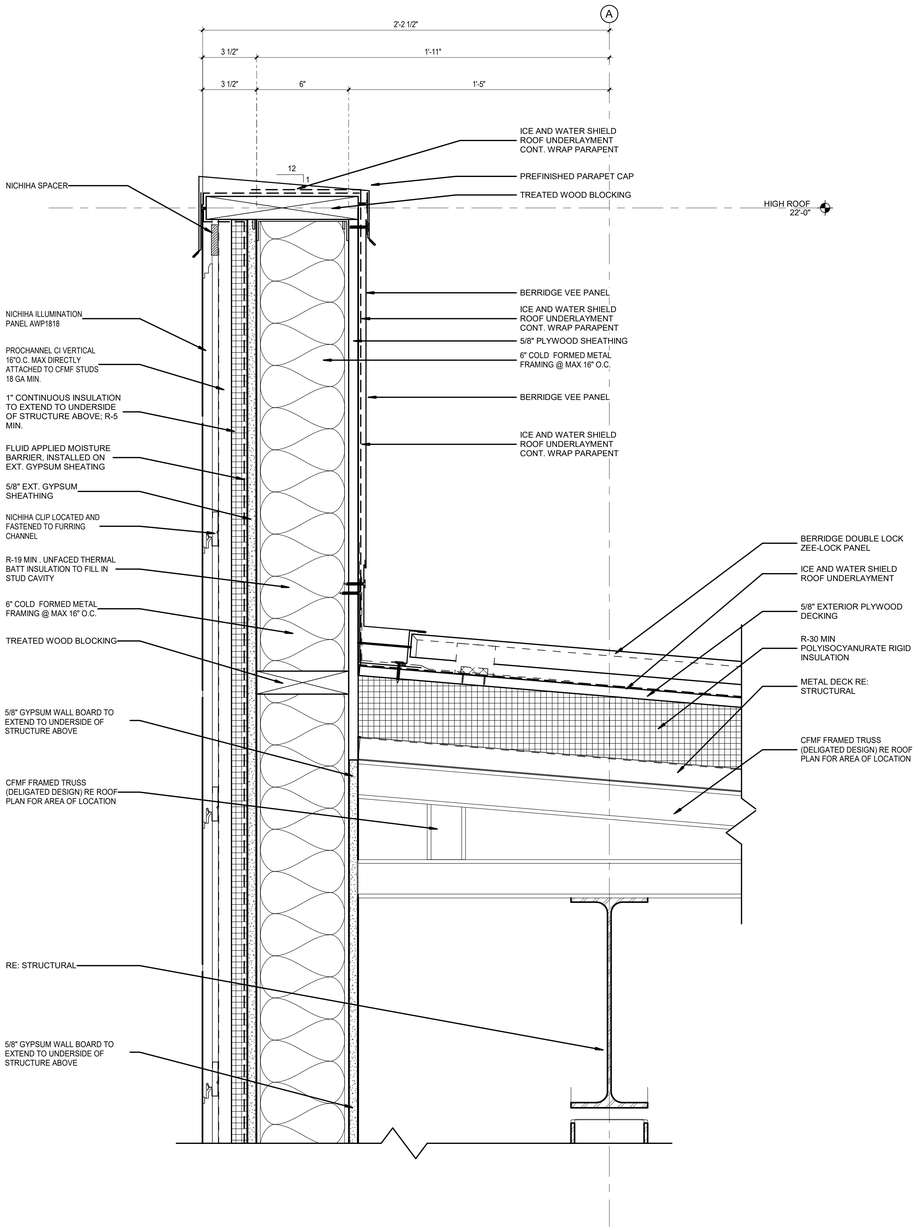

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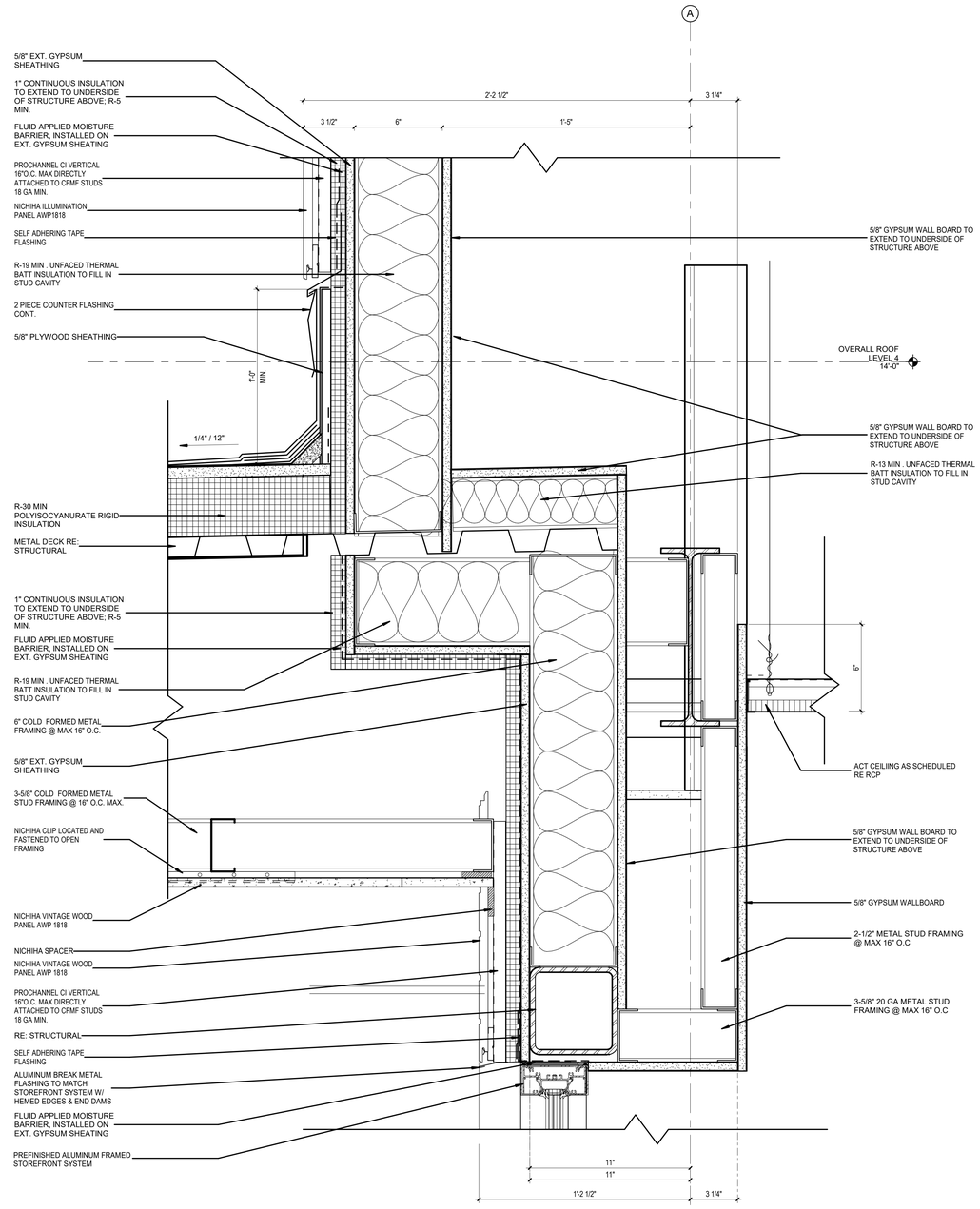

2 SECTION DETAIL 23
3" = 1'-0"

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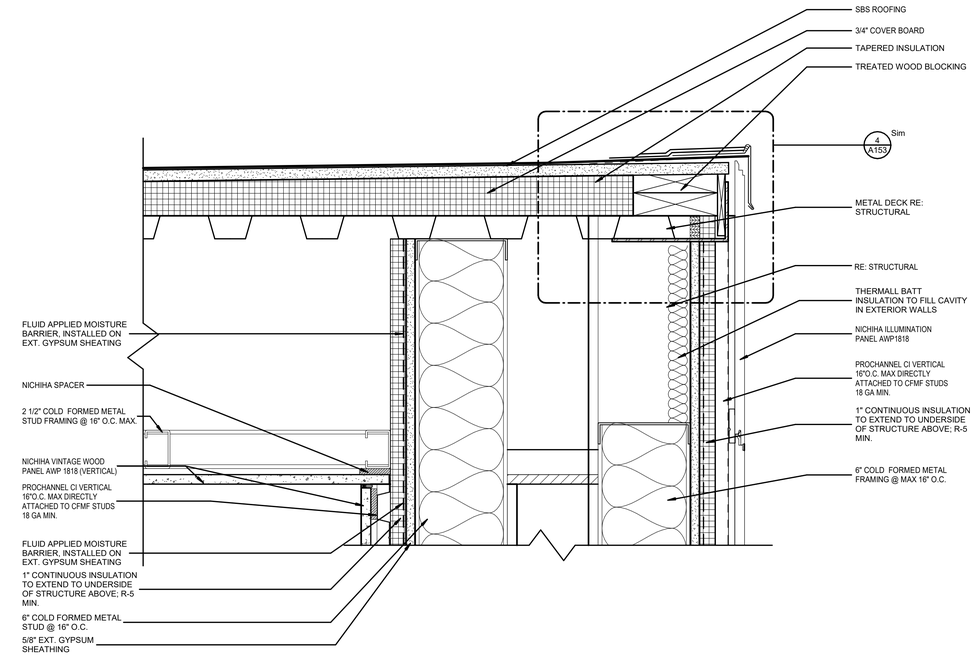

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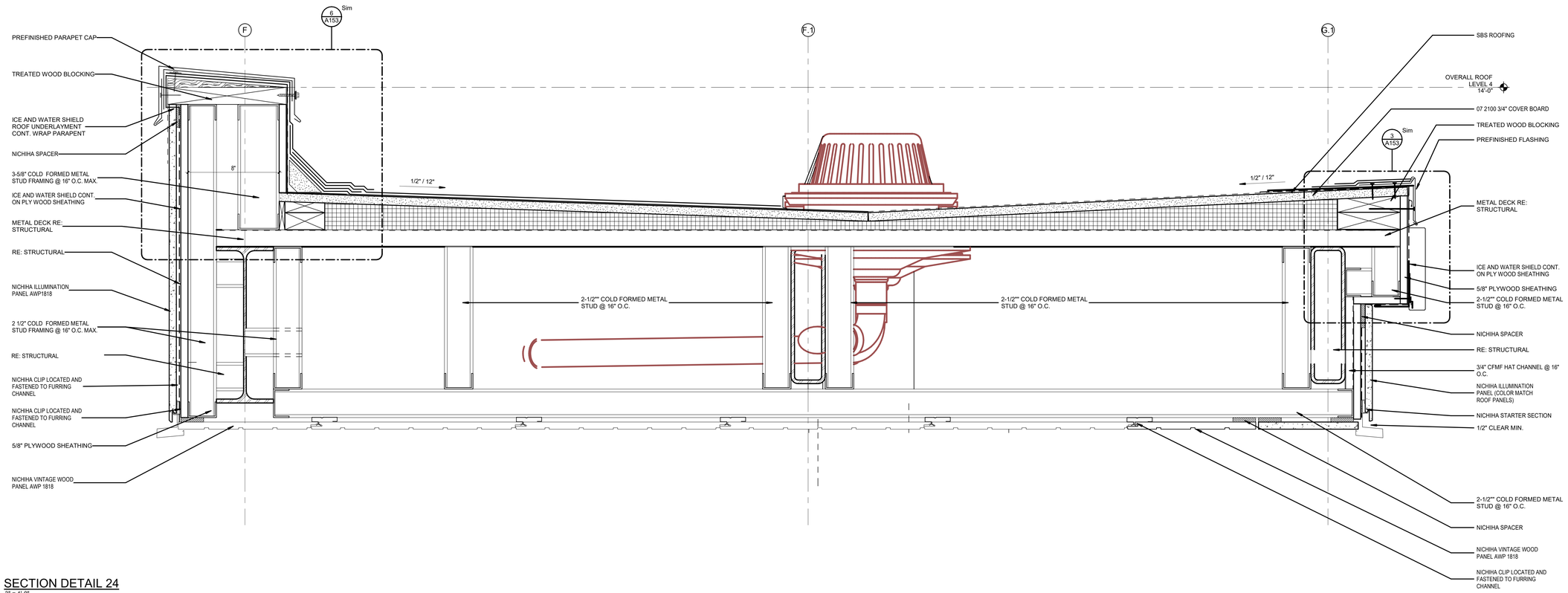

1 SECTION DETAIL 24
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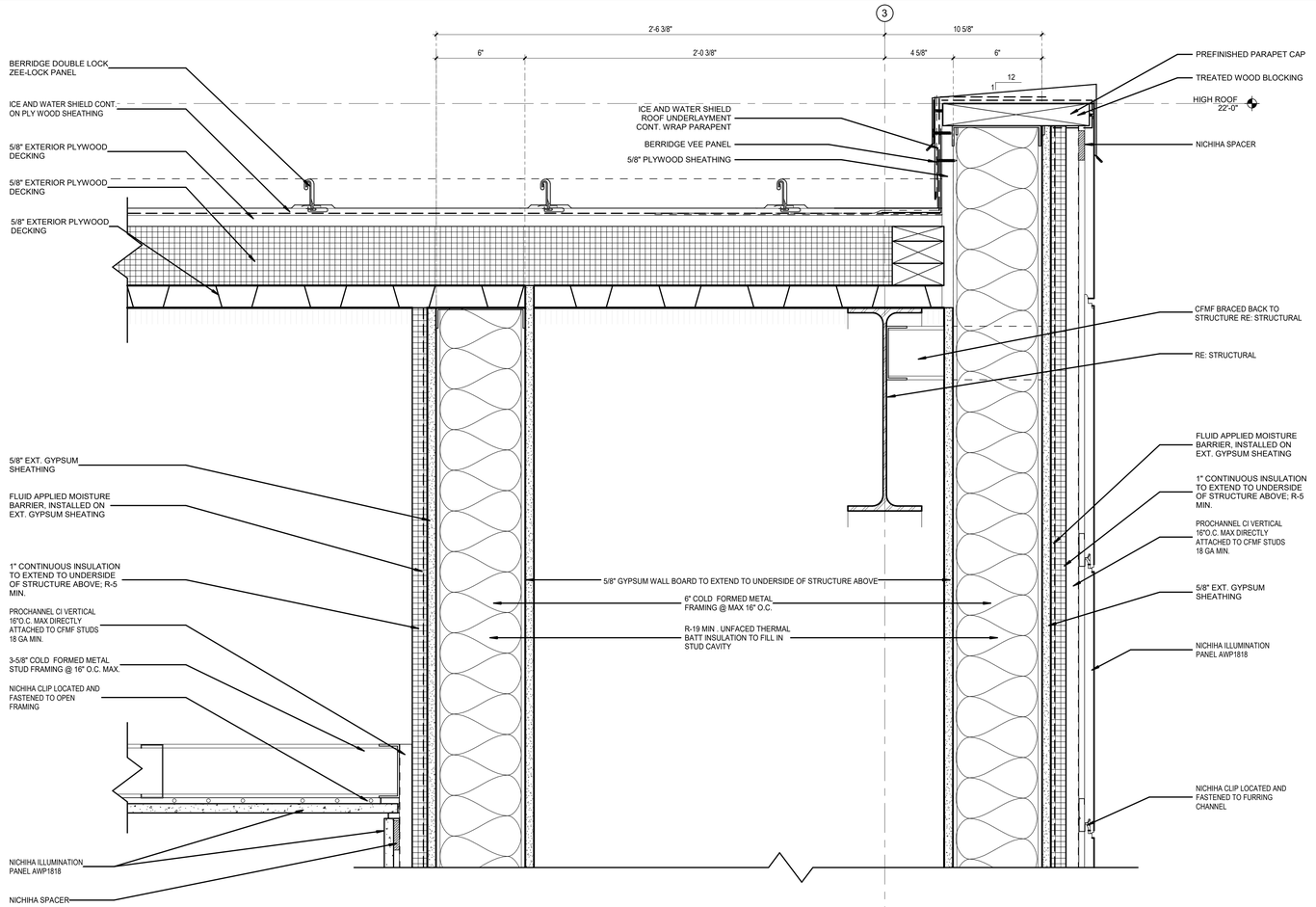

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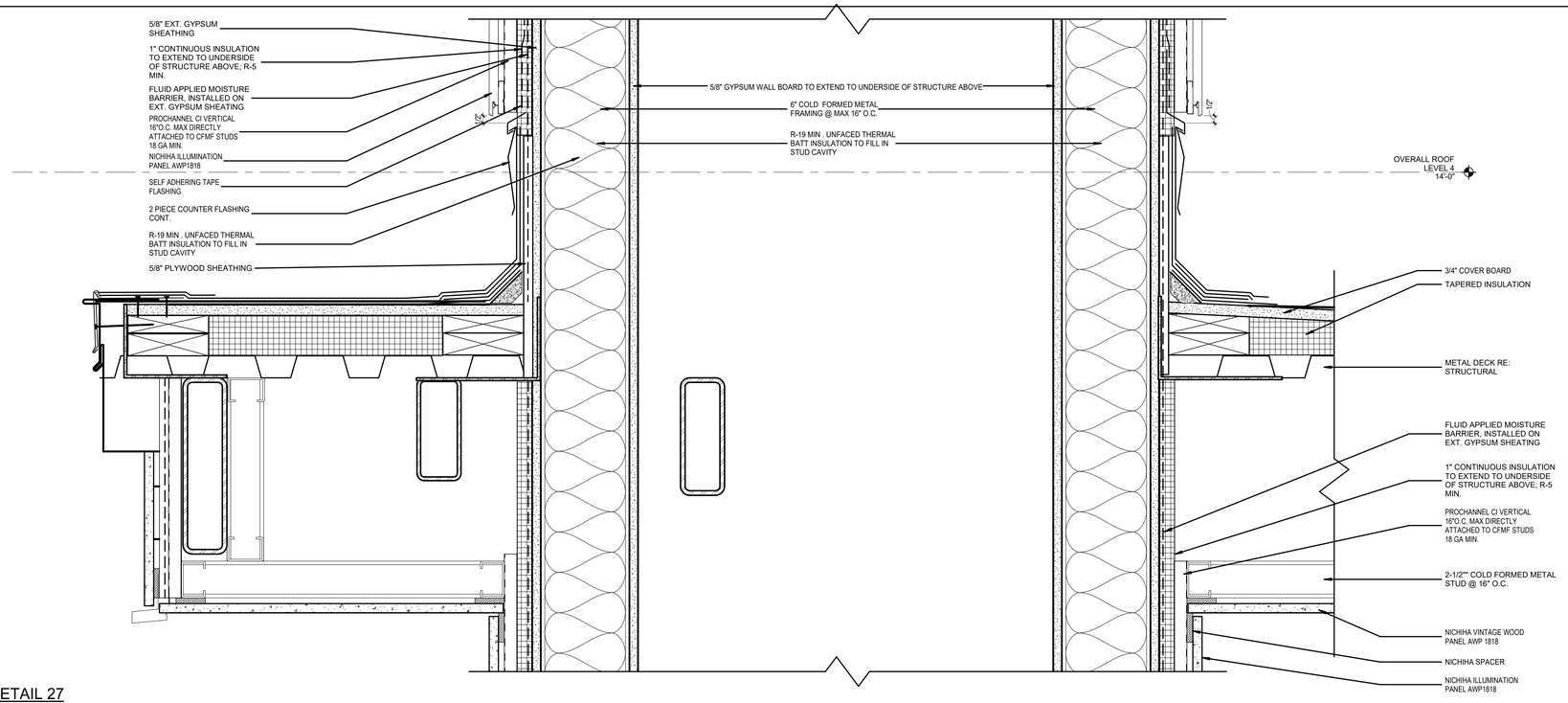

2 SECTION DETAIL 27
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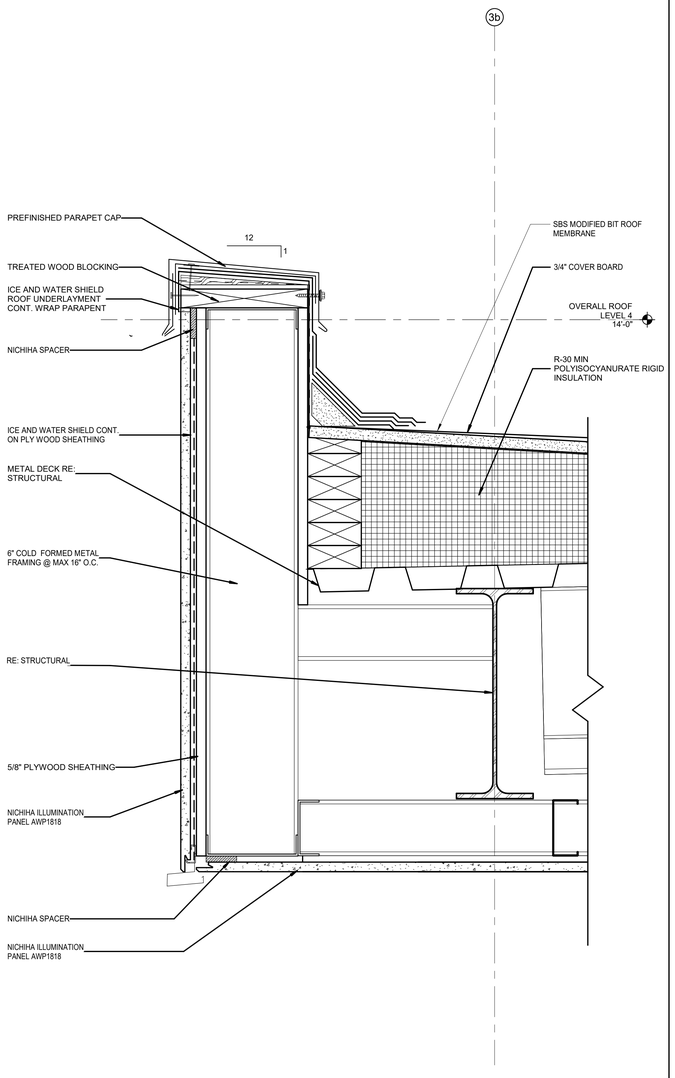

1 SECTION DETAIL 28
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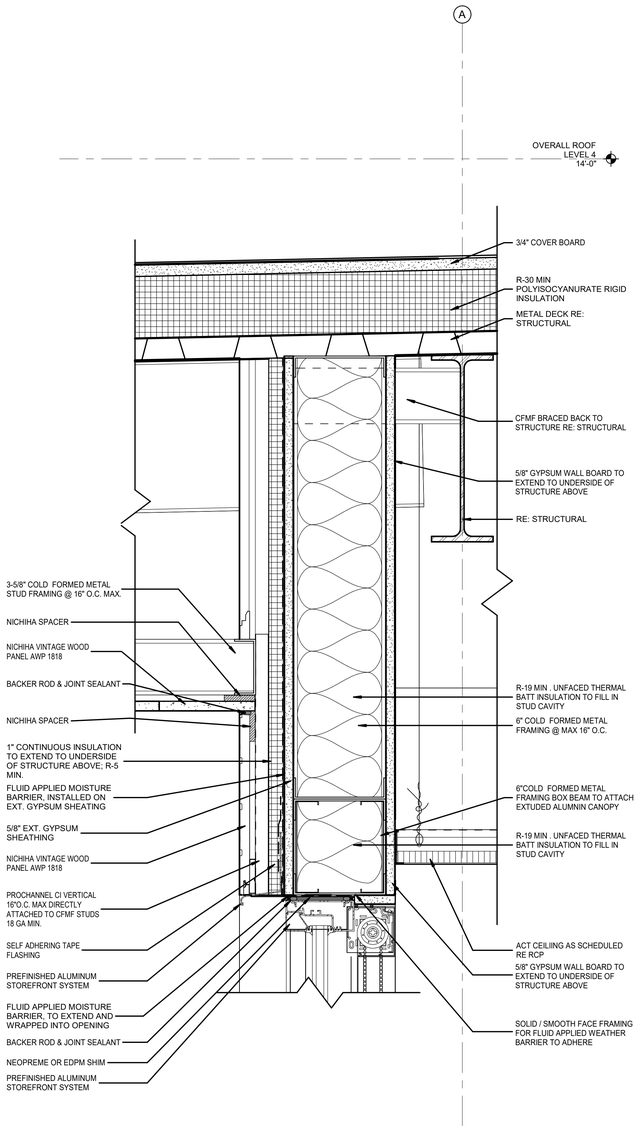

2 SECTION DETAIL 29
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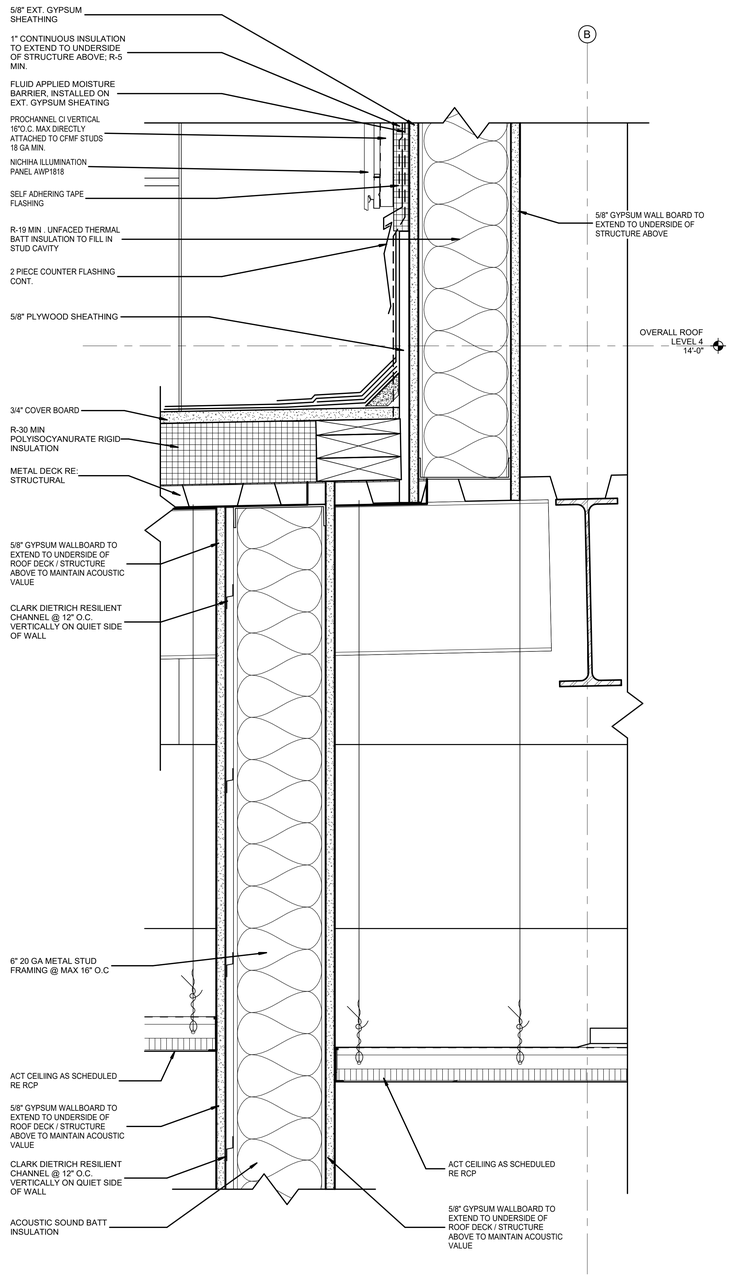

3 SECTION DETAIL 30
3" = 1'-0"

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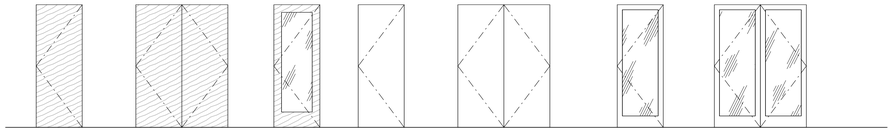
DOOR TYPES



A
SOLID CORE WOOD

B
PAIR 1 3/4" SOLID CORE WOOD

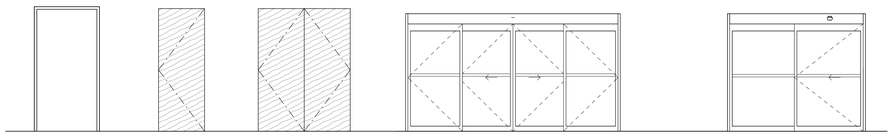
C
1 3/4" STILE & RAIL SOLID CORE WOOD DOOR 1/4" TEMPERED GLASS

D
1 3/4" HM FLUSH PAINTED

E
1 3/4" PAIR HM FLUSH PAINTED

F
ALUMINUM STOREFRONT DOOR

G
ALUMINUM STOREFRONT DOUBLE DOOR



H
HM CASED OPENING

I
SOLID CORE WOOD
45 MIN FR.

J
PAIR 1 3/4" SOLID CORE WOOD
45 MIN FR.

L
AUTOMATIC SLIDER

M
AUTOMATIC SLIDER

O
1 3/4" STILE & RAIL SOLID CORE WOOD DOOR 1/4" TEMPERED GLASS DOUBLE DOOR

FRAME TYPES

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR GLAZING	FRAME FRAME TYPE	FRAME MATERIAL	FIRE RATING	ACCESS CONTROL	NOTES	Comments
100c	MAIN ENTRY / CIRCULATION	H	4' - 0"	8'-0"								main
100d	BOOK DROP	A	3' - 0"	8'-0"	WD			HM		CR		STORE ROOM LOCKSET
100X	MAIN ENTRY / CIRCULATION	L	13' - 8 1/2"	7'-0"					None			main
101	VESTIBULE	H	4' - 0"	8'-0"								main
101A	MALE RESTROOM	A	3' - 0"	8'-0"	WD			HM				PASSAGE
101B	FEMALE RESTROOM	A	3' - 0"	8'-0"	WD			HM				PASSAGE
102	PREFUNCTION	O	6' - 0"	8'-0"					30 Minute			
102A	MEETING ROOM	J	6' - 0"	8'-0"	WD			HM	45 Min			STORE ROOM LOCKSET
102B	STORAGE (PROGRAM)	I	3' - 0"	8'-0"	WD			HM	45 Min	CR		main
102EE	ADMIN	F	3' - 1"	7'-10 3/4"	ALUM	08 Glass _ IG-1T Tempered Insulated		ALUM		CR		main
103	PATRON	M	8' - 8 1/2"	7'-0"					None			main
104	STUDY	C	3' - 0"	7'-10 1/4"	WD			AL				PASSAGE
105	LA ROOM	G	6' - 3"	7'-10 1/4"	AL	08 Glass _ IG-1T Tempered Insulated						CLASSROOM LOCKSET
105A	LA ROOM	H	4' - 0"	8'-0"								CLASSROOM LOCKSET
106	STUDY	C	3' - 0"	7'-10 1/4"	WD			AL				PASSAGE
107	MEETING ROOM	F	3' - 8 1/2"	7'-11"	ALUM	08 Glass _ IG-1T Tempered Insulated		ALUM		CR		PANIC
108	ADMIN	A	3' - 0"	8'-0"	WD			HM		CR		CLASSROOM LOCKSET
109	PATRON	G	6' - 0"	8'-0"	AL	08 Glass _ IG-1T Tempered Insulated						
109B	FAMILY RESTROOM	A	3' - 0"	8'-0"	WD			HM				PRIVACY LOCKSET
111	STUDY	C	3' - 0 1/2"	7'-10 1/4"	WD			AL				PASSAGE
112A	STORAGE (PROGRAM)	I	3' - 0"	8'-0"	WD			HM	45 Min			STORE ROOM LOCKSET
113	STUDY	C	2' - 11"	7'-10 1/4"	WD			AL				PASSAGE
114	JAN	A	3' - 0"	8'-0"	WD			HM				STORE ROOM
115	IT	A	3' - 0"	8'-0"	WD			HM				STORE ROOM LOCKSET
115a	SUPERVISOR OFFICE	C	3' - 0"	8'-0"	WD	GL		HM		CR		OFFICE LOCK
115b	SUPERVISOR OFFICE	C	3' - 0"	8'-0"	WD	GL		HM				OFFICE LOCK
116	STORAGE (OFFICE SUPPLIES)	A	3' - 0"	8'-0"	WD			HM				STORE ROOM LOCKSET
117	STAFF RESTROOM	A	3' - 0"	8'-0"	WD			HM				PRIVACY LOCKESET
118	STAFF BREAK ROOM	A	3' - 0"	8'-0"	WD			HM				CLASSROOM LOCKSET
119	ELEC.	D	3' - 0"	8'-0"	HM			HM				STORE ROOM LOCKSET
120	MECHANICAL	E	6' - 0"	8'-0"	HM			HM			STORAGE	STORE ROOM LOCKSET

GENERAL NOTES

ABBREVIATION LEGEND

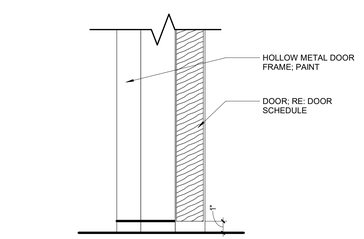
AL	ALUMINUM
AN	ANODIZED
GL	GLASS
HM	HOLLOW METAL
PT	PAINTED, RE: FINISH SCHEDULE
WD	SOLID CORE WOOD
SF	STOREFRONT
T	TEMPERED

INSULATED GLASS (IG) TYPES
IG-1: LOW E-COATED, CLEAR INSULATING GLASS

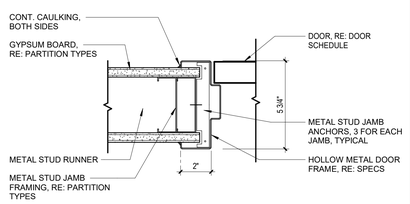
INTERIOR GLAZING (GL) TYPES
GL-1: 1/4" INTERIOR GLAZING

GENERAL NOTES

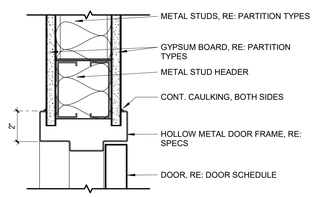
1. DOOR MANUFACTURER TO FIELD VERIFY ALL DOOR SIZES BASED ON JAMB OPENING
2. ALL FIRE - RATED DOORS SHALL BEAR A LABEL FROM AN APPROVED AGENCY
3. REFERENCE SPECIFICATIONS FOR DESCRIPTION OF DOOR HARDWARE SETS
4. ALL GLASS IN FIRE-RATED DOORS SHALL BE FIRE RATED CERAMIC GLAZING



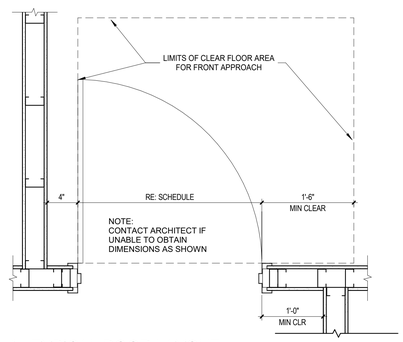
1 TYP. INT. DOOR THRESHOLD
3" = 1'-0"



2 DOOR DETAIL - INT. H.M. JAMB
3" = 1'-0"



3 DOOR DETAIL - INT. H.M. HEAD
3" = 1'-0"



4 TYPICAL DOOR LAYOUT
1" = 1'-0"

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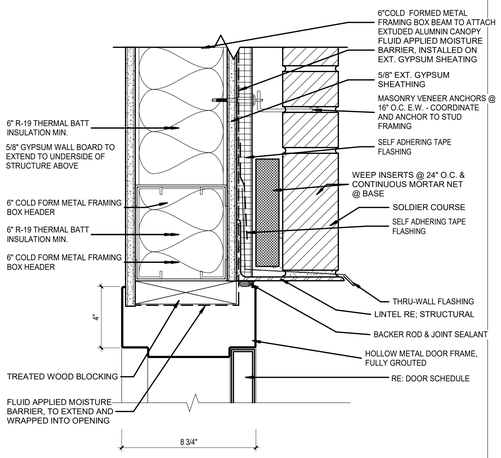
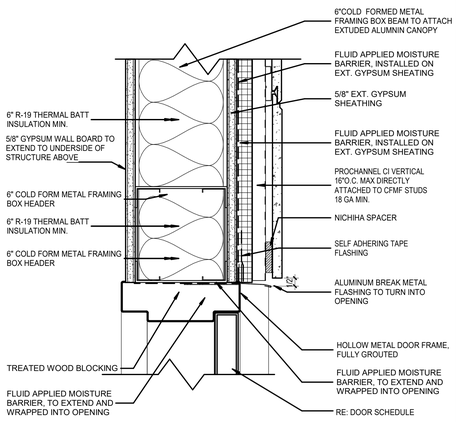
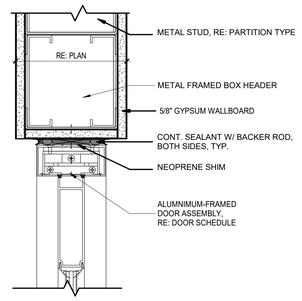


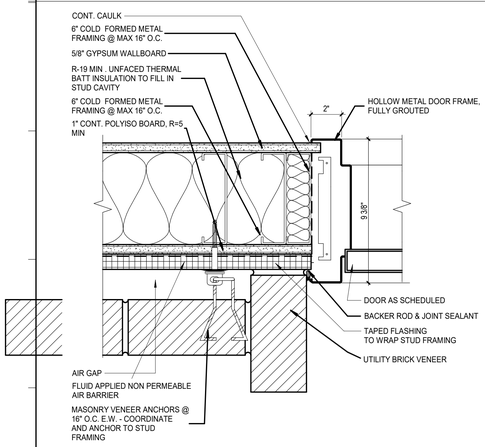
1 TYP. HEAD DETAIL@ BRICK VENEER
3" = 1'-0"



2 TYP. H.M. DOOR HEAD DETAIL@ CEMENTITIOUS PANEL
3" = 1'-0"



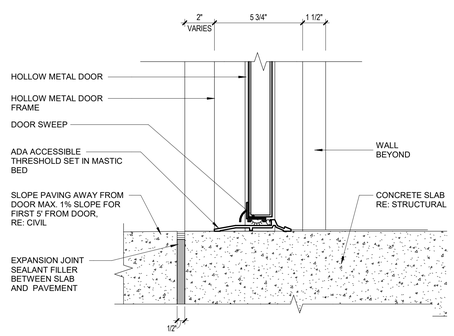
3 TYP. INT. SF HEAD
3" = 1'-0"



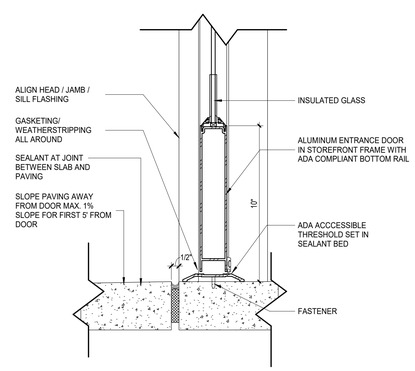
4 TYP. H.M. JAMB DETAIL @ BRICK VENEER
3" = 1'-0"

5 TYP. H.M. JAMB DETAIL @ CEMENTITIOUS PANEL
3" = 1'-0"

6 TYP. INT. SF JAMB
3" = 1'-0"



7 TYP. EXTERIOR HM DOOR SILL
3" = 1'-0"



8 TYP. EXT. SF / CW DOOR SILL
3" = 1'-0"

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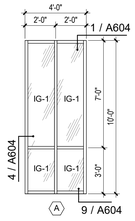
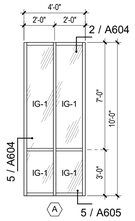
GLAZING ELEVATIONS

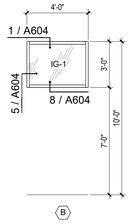
EXTERIOR STOREFRONT



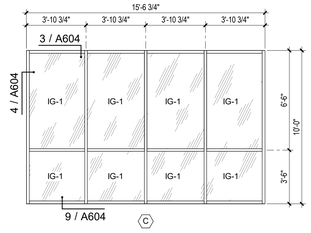
1 SF-A (BRICK)
1/4" = 1'-0"



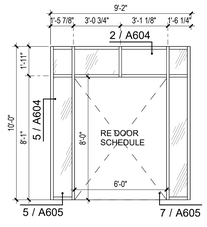
2 SF-A (CEMENTITIOUS PANEL)
1/4" = 1'-0"



3 SF-B
1/4" = 1'-0"

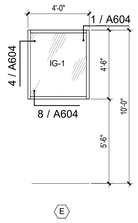


4 SF-C
1/4" = 1'-0"

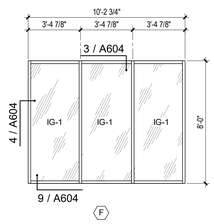


5 SF-D
1/4" = 1'-0"

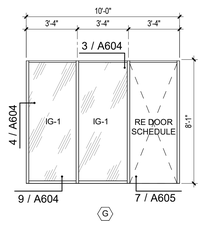
EXTERIOR STOREFRONT



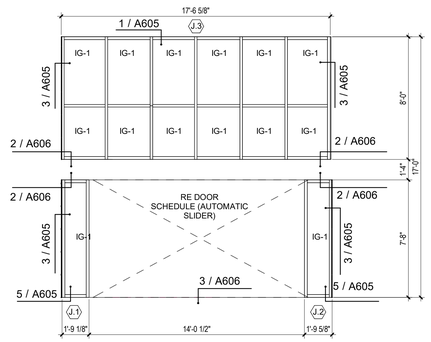
6 SF-E
1/4" = 1'-0"



7 SF-F
1/4" = 1'-0"

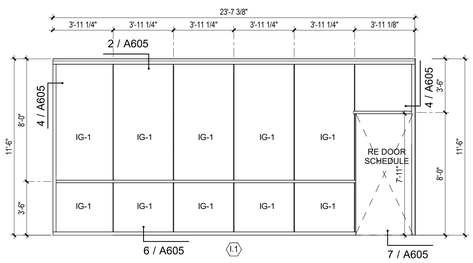


8 SF-G
1/4" = 1'-0"



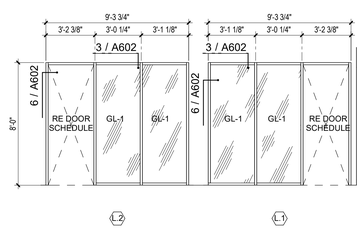
9 CW- J
1/4" = 1'-0"

EXTERIOR CURTAIN WALL

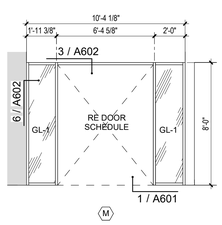


10 CW-I.1
1/4" = 1'-0"

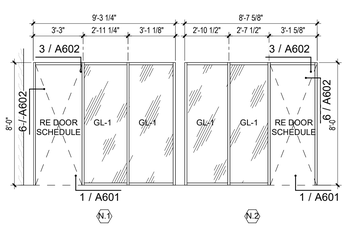
INTERIOR STOREFRONT



11 SF-L
1/4" = 1'-0"



12 SF-M
1/4" = 1'-0"



13 SF-N
1/4" = 1'-0"

GLAZING TYPES - TYPICAL NOTES

1. NOT ALL GLAZING TYPES ARE USED.
2. REFER TO BUILDING ELEVATIONS FOR GLAZING LOCATIONS.

GLAZING TYPES

GL-1 CLEAR TEMPERED FLOAT GLASS, 6 MM

GL-2 CLEAR FLOAT GLASS, 6 MM.

IG-1 INSULATED GLASS (LARGE MISSLE IMPACT)

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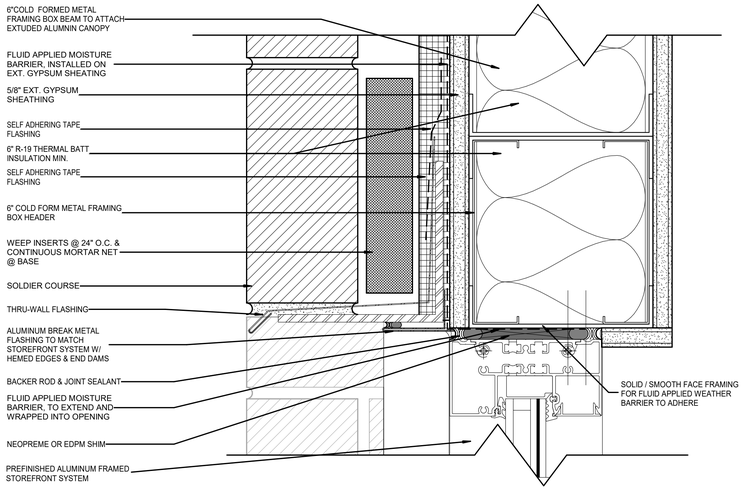
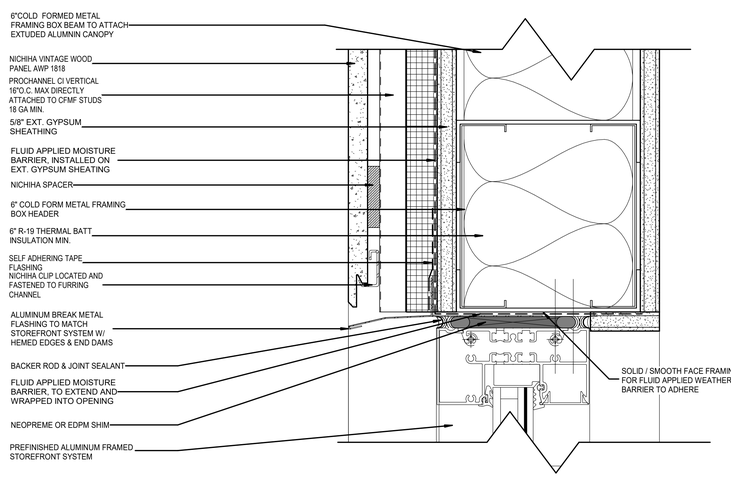
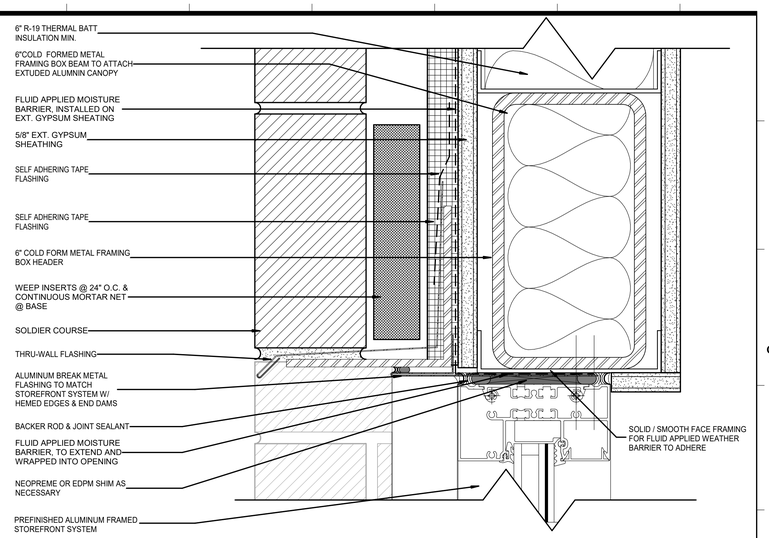


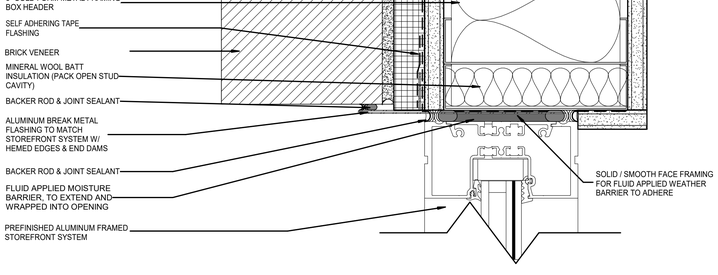
1 TYP. SF HEAD @ BRICK VENEER
6" = 1'-0"



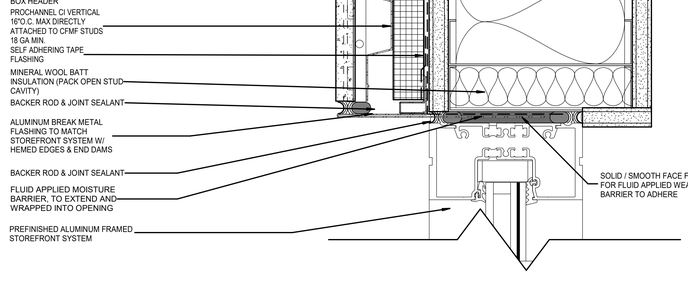
2 TYP. SF HEAD @ CEMENTITIOUS PANEL 1
6" = 1'-0"



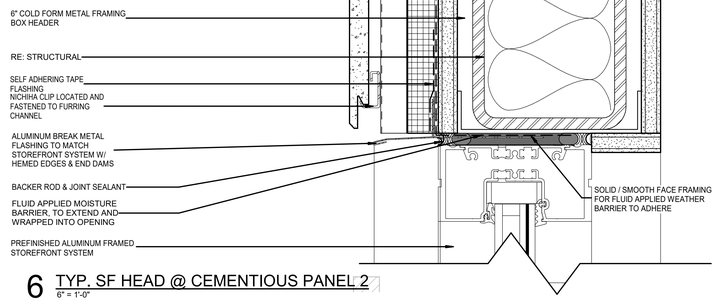
3 TYP. SF HEAD @ BRICK VENEER Copy 2
6" = 1'-0"



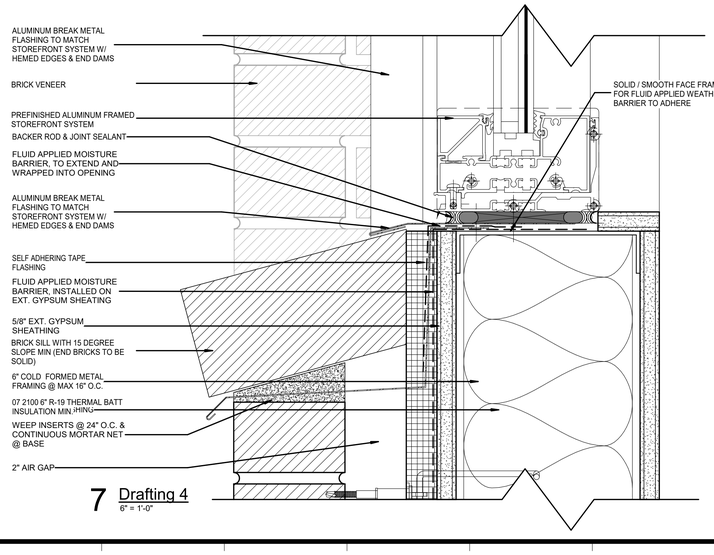
4 TYP. SF JAMB @ BRICK VENEER
6" = 1'-0"



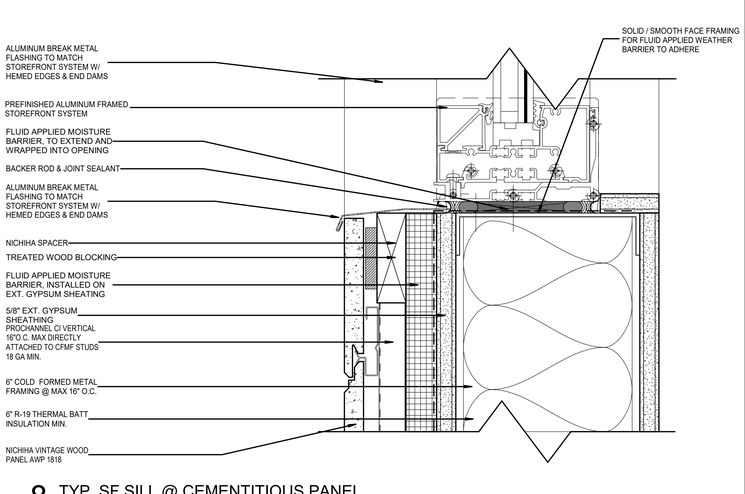
5 TYP. SF JAMB @ CEMENTITIOUS PANEL
6" = 1'-0"



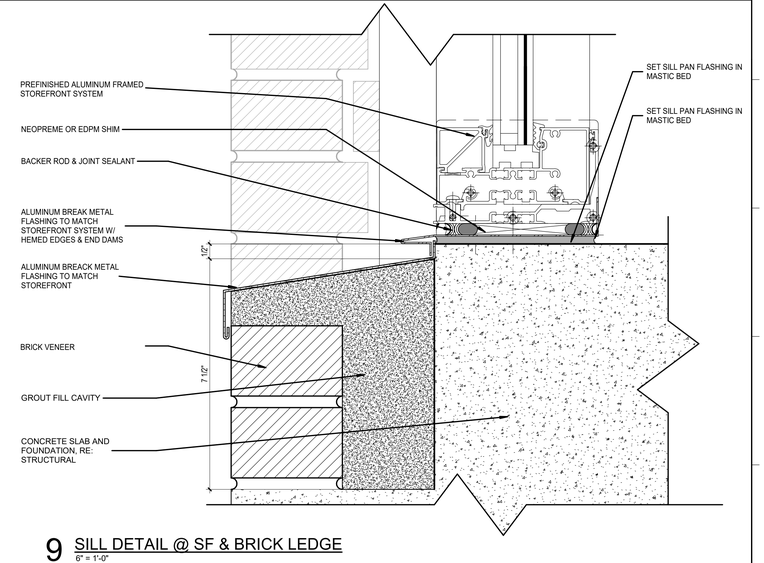
6 TYP. SF HEAD @ CEMENTIOUS PANEL 2
6" = 1'-0"



7 Drafting 4
6" = 1'-0"



8 TYP. SF SILL @ CEMENTITIOUS PANEL
6" = 1'-0"



9 SILL DETAIL @ SF & BRICK LEDGE
6" = 1'-0"

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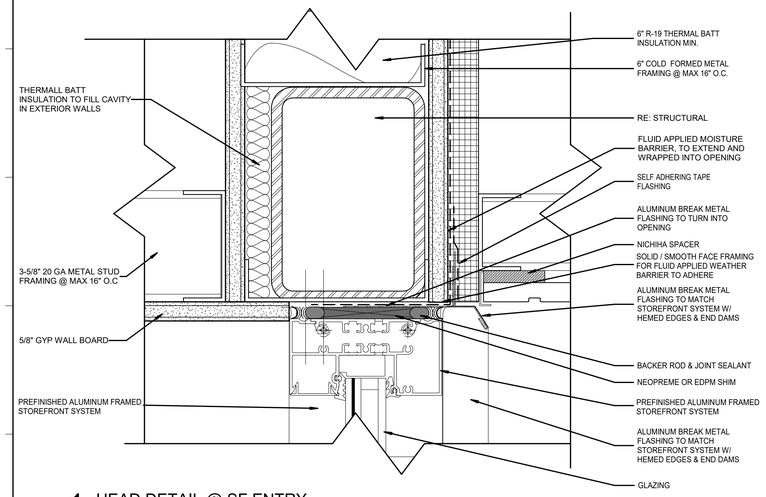
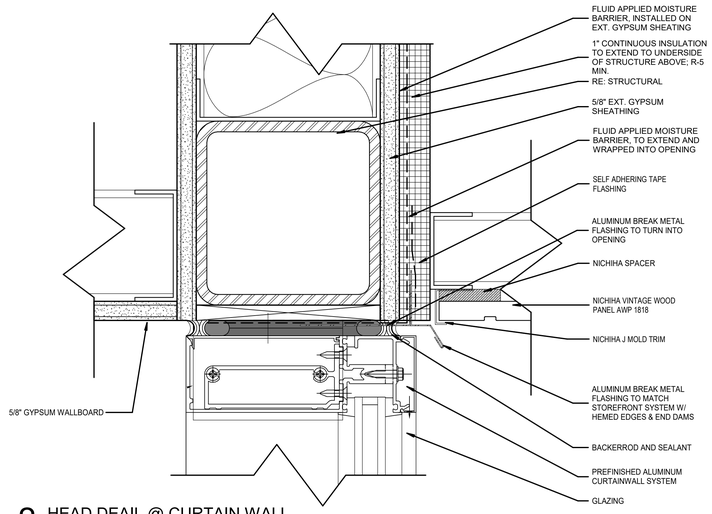
OPENING DETAILS

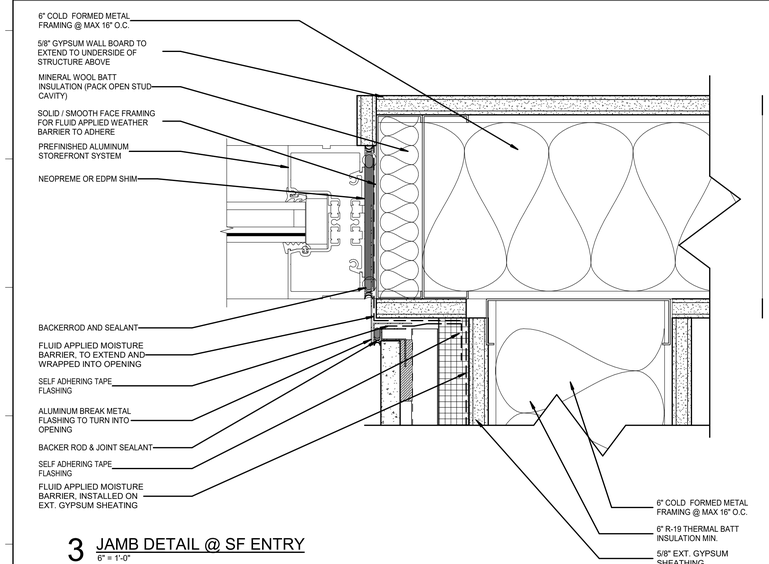
SHEET NUMBER
A604



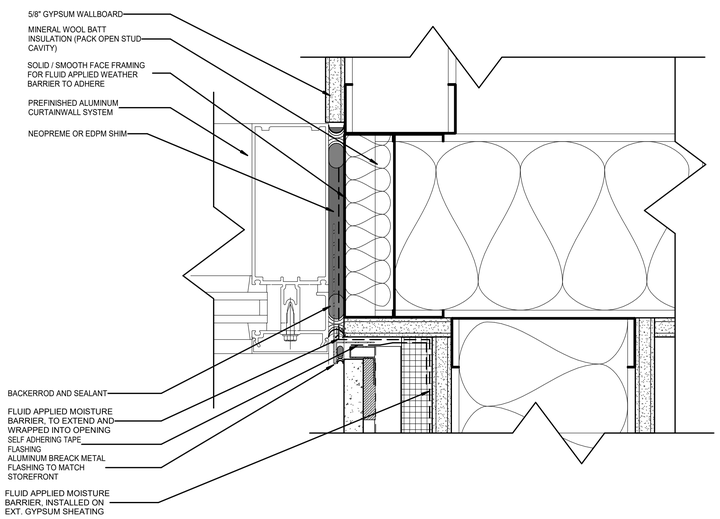
1 HEAD DETAIL @ SF ENTRY
6" = 1'-0"



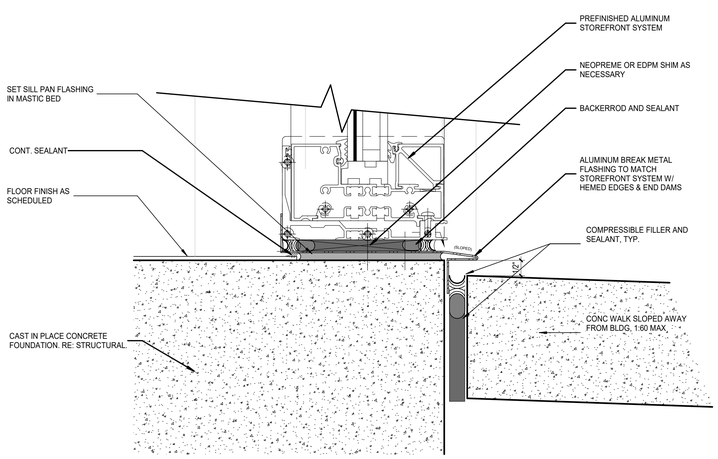
2 HEAD DEAIL @ CURTAIN WALL
6" = 1'-0"



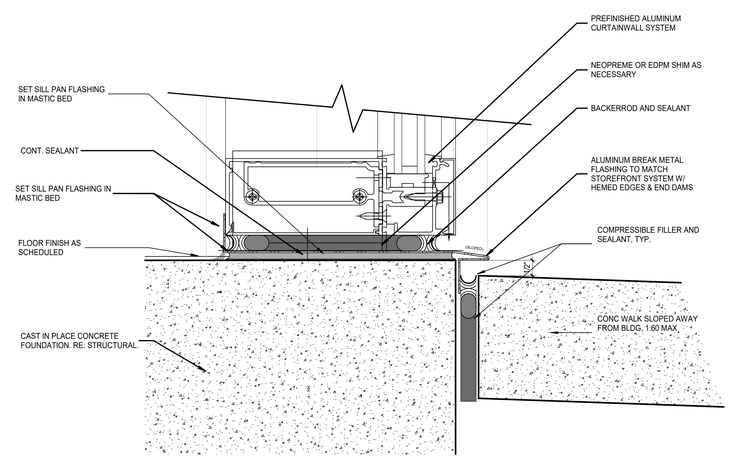
3 JAMB DETAIL @ SF ENTRY
6" = 1'-0"



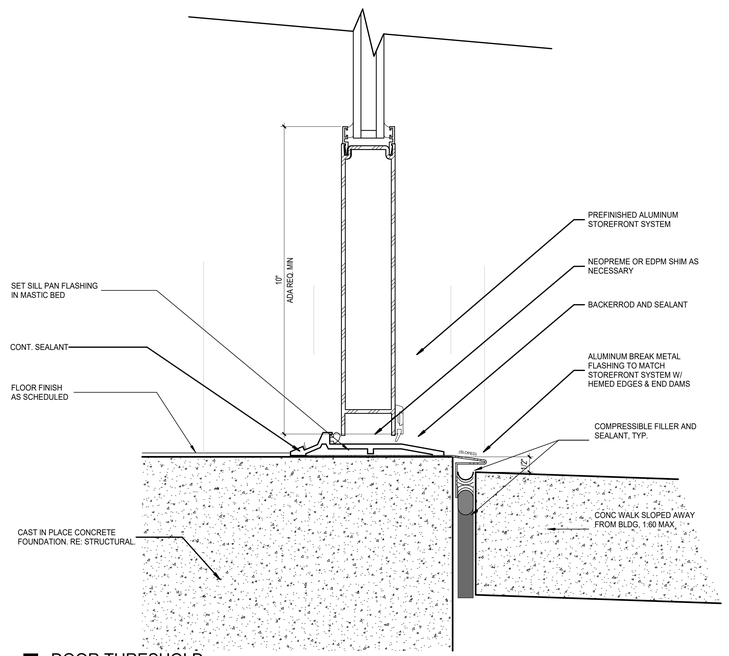
4 JAMB DETAIL @ CURTAIM WALL
6" = 1'-0"



5 SILL DETAIL @ STORE FRONT
6" = 1'-0"



6 SILL DETAIL @ CURTAIN WALL
6" = 1'-0"



7 DOOR THRESHOLD
6" = 1'-0"

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OPENING DETAILS

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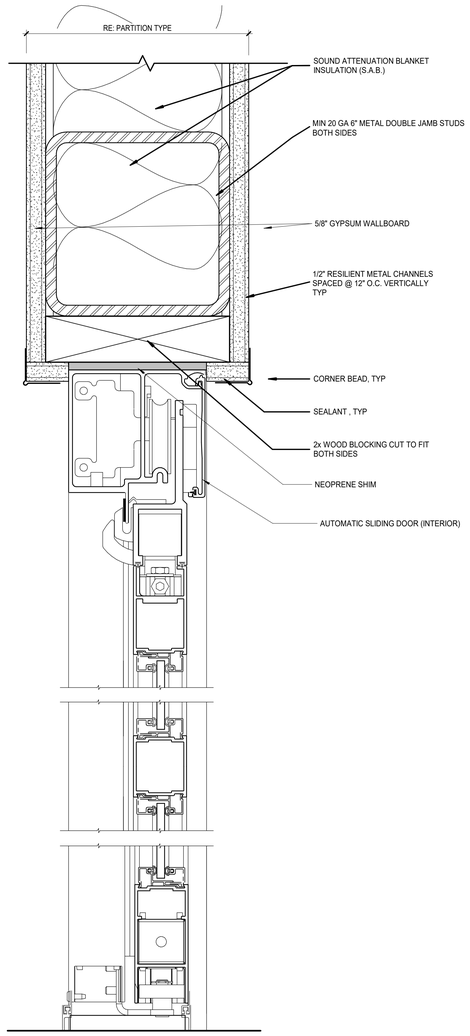
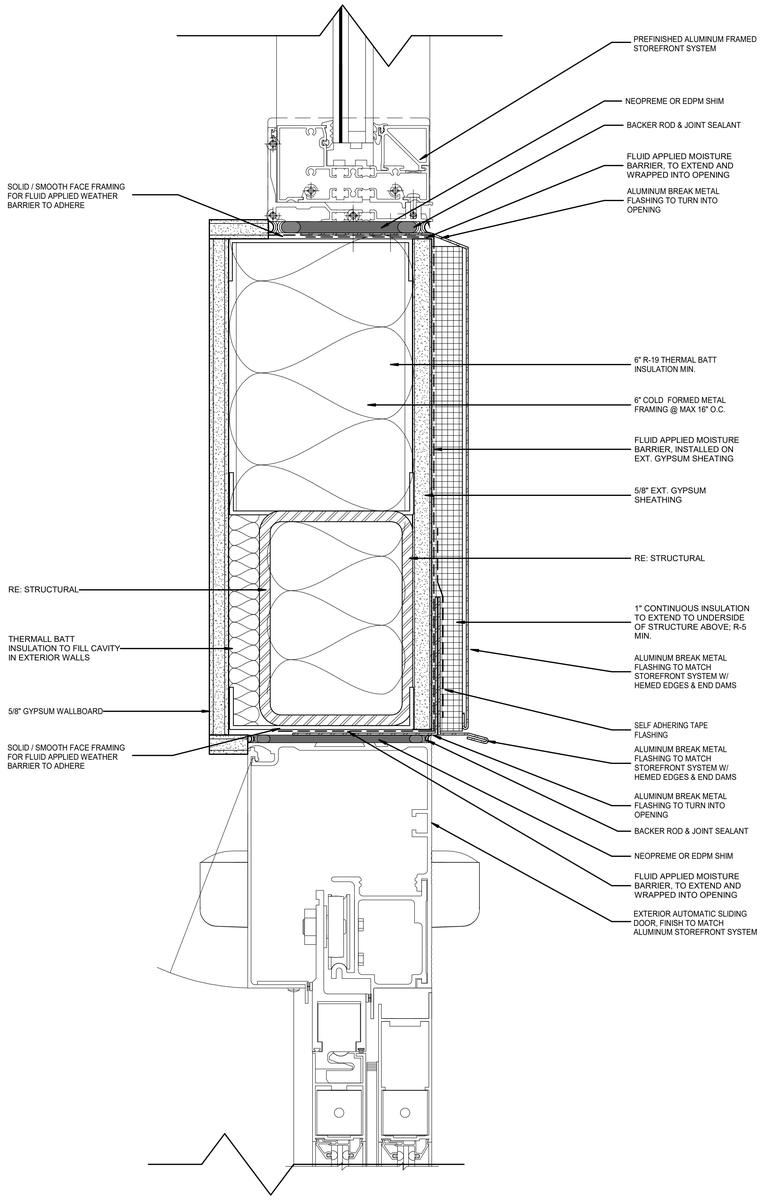
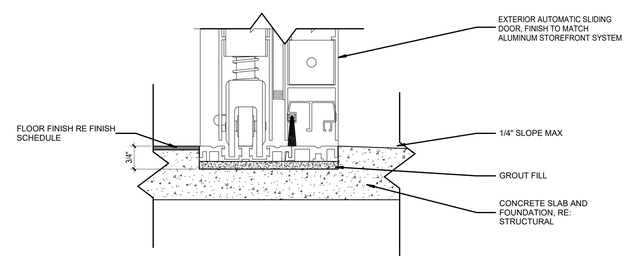
A605



1 INT. AUTOMATIC SLIDING DOOR
6" = 1'-0"



2 HEAD DETAIL @ EXT/ AUTO SLIDER
6" = 1'-0"



3 THRESHOLD @ EXT AUTOMATIC SLIDER
6" = 1'-0"

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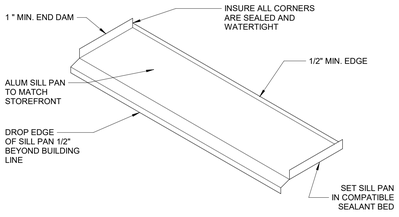
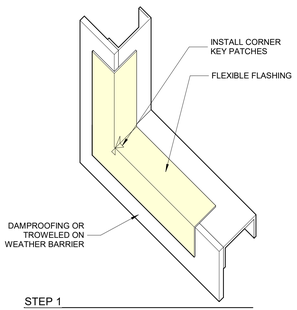
OPENING DETAILS (AUTOMATIC SLIDING DOORS)

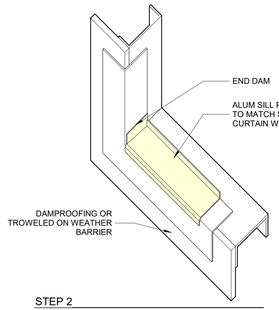
SHEET NUMBER
A606



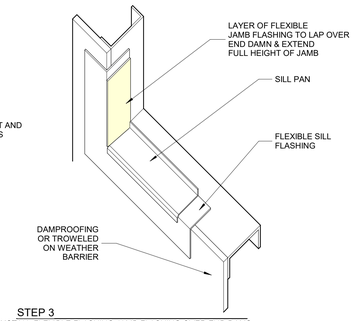
TYPICAL SILL PAN
NTS



STEP 1
INSTALL FLEXIBLE FLASHING OVER DAMPROOFING OR TROWELED ON WEATHER BARRIER

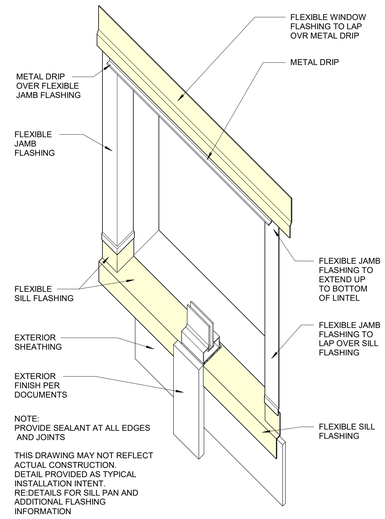


STEP 2
INSTALL ALUM SILL PAN W/ END DAM AND SEAL ALL JOINTS



STEP 3
INSTALL FLEXIBLE FLASHING JAMB FLASHING OVER END DAMS

1 Drafting 7
1" = 1'-0"

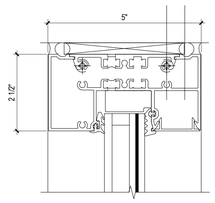


NOTE:
PROVIDE SEALANT AT ALL EDGES AND JOINTS

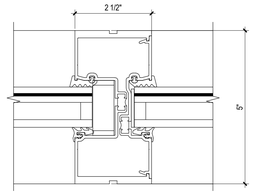
THIS DRAWING MAY NOT REFLECT ACTUAL CONSTRUCTION. DETAIL PROVIDED AS TYPICAL INSTALLATION INTENT. RE:DETAILS FOR SILL PAN AND ADDITIONAL FLASHING INFORMATION

FLOOD ALL PENETRATIONS IN ROUGH OPENING FLASHING ASSEMBLY WITH SEALANT

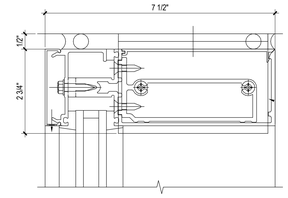
2 Drafting 8
1" = 1'-0"



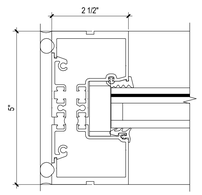
3 STOREFRONT HEAD
6" = 1'-0"



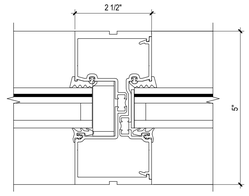
4 STOREFRONT VERTICAL MULLION
6" = 1'-0"



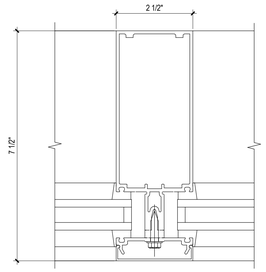
5 CW HEAD DETAIL
6" = 1'-0"



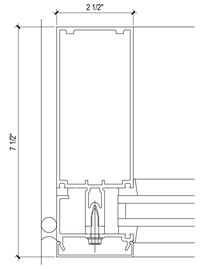
6 STOREFRONT JAMB
6" = 1'-0"



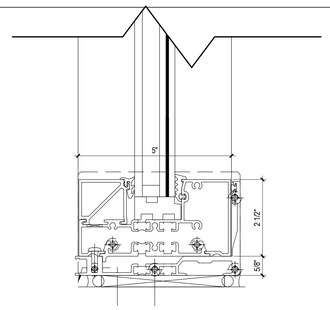
7 STOREFRONT HORIZONTAL MULLION
6" = 1'-0"



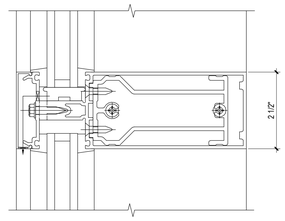
8 CW VERTICAL MULLION
6" = 1'-0"



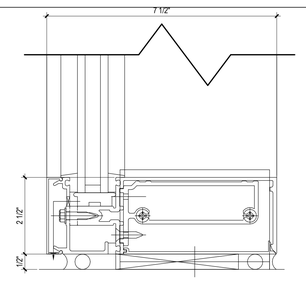
9 CW JAMB DETAIL
6" = 1'-0"



10 STOREFRONT SILL
6" = 1'-0"



11 CW HORIZONTAL MULLION
6" = 1'-0"



12 CW SILL DETAIL
6" = 1'-0"

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TYP. STOREFRONT AND CURTAIN WALL DETAILS

SHEET NUMBER
A607

INTERIOR FINISH KEY

MARK	MATERIAL TYPE	MANUFACTURER	IDENTIFICATION	COLOR	SIZE	INSTALLATION	NOTES	CONTACT
ACOUSTICAL CEILING								
AC-1	ACOUSTICAL CEILING	ARMSTRONG	ULTIMA HIGH-NRC SQUARE LAY-IN PANEL 2080	TILE: WHITE, GRID: WHITE	2' x 2'	15/16" PRELUDE SUSPENSION SYSTEM		CATHERINE NIPPER CMNIPPER@ARMSTRONGCEILINGS.COM
AC-2	ACOUSTICAL CEILING	ARMSTRONG	ULTIMA HIGH-NRC SQUARE LAY-IN PANEL 1435	TILE: WHITE, GRID: WHITE	2' x 6'	15/16" PRELUDE SUSPENSION SYSTEM		CATHERINE NIPPER CMNIPPER@ARMSTRONGCEILINGS.COM
WOOD CEILING								
WCS-1	WOOD CEILING	ARMSTRONG	WOODWORKS LINEAR VENEERED OPEN	CONSTANTS REDUX WOOD WHEAT	6"(5.25"W) PLANK, 24 x 96 x 3/4" PANELS	BLACK ACOUSTICAL INFILL PANEL		CATHERINE NIPPER CMNIPPER@ARMSTRONGCEILINGS.COM
PAINT								
P-1	PAINT	SHERWIN WILLIAMS	SW 7005	PURE WHITE				ANTHONY CATALANO ANTHONY.J.CATALANO@SHERWIN.COM
P-2	PAINT	SHERWIN WILLIAMS	SW 7641	COLONNADE GRAY				ANTHONY CATALANO ANTHONY.J.CATALANO@SHERWIN.COM
P-3	PAINT	SHERWIN WILLIAMS	SW 7642	PAVESTONE				ANTHONY CATALANO ANTHONY.J.CATALANO@SHERWIN.COM
P-4	PAINT	SHERWIN WILLIAMS	SW 6481	GREEN BAY				ANTHONY CATALANO ANTHONY.J.CATALANO@SHERWIN.COM
P-5	PAINT	SHERWIN WILLIAMS	SW 6472	COMPOSED				ANTHONY CATALANO ANTHONY.J.CATALANO@SHERWIN.COM
P-6	PAINT	SHERWIN WILLIAMS	SW 9059	SILKEN PEACOCK				ANTHONY CATALANO ANTHONY.J.CATALANO@SHERWIN.COM
WALLCOVERING								
WC-1	WALLCOVERING	LEVEL WALLCOVERING	ECLIPSE	SAFARI				ADELE RIOS ADELE@ELEMENTSSDR.COM
RUBBER BASE								
RB-1	RUBBER BASE	TARKETT	PERCEPTIONS RECESS TOELESS	PEBBLE	4.25"H			ALEXIS MIRANNE ALEXIS.MIRANNE@TARKETT.COM
WOOD BASE								
WB-1	WOOD BASE	CUSTOM MILLWORK, RE: DETAILS	PAINT GRADE POPLAR	RE: ELEVATIONS	10" H			
CARPET TILE								
C-1	CARPET TILE	SHAW	METAL EDGE	EMERY PLATINUM	24" x 24"	BRICK		FELICIA FERRANTE FELICIA.FERRANTE@SHAWCONTRACT.COM
C-2	CARPET TILE	SHAW	FAMILIAR	MINT	9" x 36"	ASHLAR		FELICIA FERRANTE FELICIA.FERRANTE@SHAWCONTRACT.COM
LUXURY VINYL TILE								
LVT-1	LUXURY VINYL TILE	SHAW	TERRAIN II	ORCHARD	6" x 48" 2.5MM	STAGGER		FELICIA FERRANTE FELICIA.FERRANTE@SHAWCONTRACT.COM
LVT-2	LUXURY VINYL TILE	SHAW	TERRAIN II	ECHO	6" x 48" 2.5MM	STAGGER		FELICIA FERRANTE FELICIA.FERRANTE@SHAWCONTRACT.COM
LVT-3	LUXURY VINYL TILE	SHAW	TERRAIN II	ELM	6" x 48" 2.5MM	STAGGER		FELICIA FERRANTE FELICIA.FERRANTE@SHAWCONTRACT.COM
SEALED CONCRETE								
SC-1	SEALED CONCRETE	RE: SPECIFICATIONS		CLEAR				
TILE								
TL-1	TILE	CONCEPT SURFACES	HARRIET	LIGHT GRAY	24" x 48"	STACK	LATICRETE SPECTRALOCK EPOXY GROUT	ALLISON ENDRES AENDRES@TILEBAR.COM
TL-2	TILE	ANATOLIA	AMELIA	MIST	12" x 24"	33% OFFSET	LATICRETE SPECTRALOCK EPOXY GROUT	DON TEIJELO DONT@CONCEPTSURFACES.COM
TL-3	TILE	TILEBAR	ENSO	ASH BEIGE	24" x 48"	STACK (RANDOM ROTATE)	LATICRETE SPECTRALOCK EPOXY GROUT	ALLISON ENDRES AENDRES@TILEBAR.COM
TL-4	TILE	GARDEN STATE TILE	STORIED	INDIGO	2.5" x 10"	VERTICAL STACK	LATICRETE SPECTRALOCK EPOXY GROUT	LESLIE WEINBERG LWEINBEREG@GSTILE.COM
PLASTIC LAMINATE								
PL-1	PLASTIC LAMINATE	PANOLAM	WA110 HPL	CATCHING FIREFLIES	4' x 10' SHEET			TIM CONNI TIM_CONNI@PANOLAM.COM
PL-2	PLASTIC LAMINATE	WILSONART	7960K-18	STUDIO TEAK	4' x 10' SHEET	BASE AND UPPER CABINETS UNO		KRISTY RINNE KRINNE@HLLMARK.COM
PL-3	PLASTIC LAMINATE	WILSONART	5048-60	BIANCO TESSERE	4' x 10' SHEET			KRISTY RINNE KRINNE@HLLMARK.COM
RESIN PANEL								
RP-1	RESIN PANEL	3FORM	VARIA ECORESIN VERTU V MINI	WARMSTONE	RE: ELEVATIONS, 1/2" THICK	FRONT MOUNTED, 1/2" DIAMETER STAINLESS STEEL STANDOFFS		
SOLID SURFACE MATERIAL								
SSM-1	SOLID SURFACE MATERIAL	DURESSIN	DM3015	ICEBERG		ALL COUNTERS UNO		JAN KELLER JKELLERBPI@OUTLOOK.COM
SSM-2	SOLID SURFACE MATERIAL	WILSONART	QUARTZ Q4072	ALVARADO		CIRCULATION DESK		KRISTY RINNE KRINNE@HLLMARK.COM
DECORATIVE FILM								
DF-1	DECORATIVE FILM	DECORATIVE FILMS SOLYX	SXJ-0591 Dual Feather Gradient 72" high					
FIBERGLASS REINFORCED PANEL								
FRP-1	FIBERGLASS REINFORCED PANEL	MARLITE	STANDARD FRP PEBBLED CLASS A	P100 WHITE	4' x 10' SHEET	INSTALL 4' H AND FINISH ALL EXPOSED EDGES WITH COORDINATING MATCHING PVC TRIM PIECES		
MISCELLANOUS								
M-1	MISCELLANOUS	PENCO	GUARDIAN 2-TIER, SOLID DOOR, CLASSIC III RECESSED HANDLE, FINISHED END PANELS	TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF FINISHES	72"H, 18"W, 21"D, 4" H BASE		PROVIDE A MINIMUM OF 1 ADA UNIT	
TOILET PARTITION								
TP-1	TOILET PARTITION	ASI GLOBAL PARTITIONS	SOLID PLASTIC HDPE, FLOOR MOUNTED OVERHEAD BRACED	TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF FINISHES		FLOOR MOUNTED, OVERHEAD BRACED		
WINDOW TREATMENT								
WT-1	WINDOW TREATMENT	DRAPER	MANUAL SINGLE ROLLER SHADES; UV 3% OPENNESS	3% OPEN FABRIC: MECHO THERMOVEIL COLOR TBD		ALL WINDOWS UNLESS NOTED OTHERWISE		JAY LINVILLE JAY.LINVILLE@DRAPERINC.COM
WT-2	WINDOW TREATMENT	DRAPER	MANUAL DUAL ROLLER SHADES; UV 3% OPENNESS & BLACKOUT WITH SHADELOC CHANNELS	3% OPEN FABRIC: MECHO THERMOVEIL COLOR TBD: BLACKOUT FABRIC: MECHO CHELSEA BLACKOUT COLOR TBD		ALL WINDOWS IN LARGE MEETING ROOM		JAY LINVILLE JAY.LINVILLE@DRAPERINC.COM

INTERIOR GENERAL NOTES

1. THE CONTRACTOR SHALL INSTALL ALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS. REFER TO SPECIFICATIONS.
2. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. IF ANY DIMENSIONS ARE IN QUESTIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE PROJECT ARCHITECT / INTERIOR DESIGNER BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT/INTERIOR DESIGNER OF ANY ITEMS REQUIRING FINISH SELECTIONS THAT ARE NOT CLARIFIED IN THE CONTRACT DOCUMENTS OR IN THE PROJECT MANUAL.
4. THE CONTRACTOR SHALL SUBMIT PHYSICAL SAMPLES OF ALL INTERIOR FINISHES IDENTIFIED WITH THE APPROPRIATE 'MARK' TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING MATERIAL. PRODUCTS NOT SUBMITTED AND IDENTIFIED APPROPRIATELY WILL BE SENT BACK WITHOUT BEING REVIEWED AND WILL NEED TO BE RESUBMITTED. THE CONTRACTOR IS TO VERIFY AVAILABILITY AND STOCK OF MATERIALS AND ALLOW ENOUGH TIME TO RECEIVE GOODS FOR INSTALLATION TO OCCUR AT SCHEDULED TIMES.
5. THE CONTRACTOR SHALL COORDINATE WITH FINISH PLANS AND MATERIALS REGARDING AREAS WITH HEAVY ROLLING EQUIPMENT (I.E. SURGERY ROOMS, HOLDING ROOMS, ETC.) REQUIRING ADDITIONAL PREPARATION AND/OR TYPE OF ADHESIVE.
6. THE CONTRACTOR SHALL COORDINATE AN ONSITE MEETING WITH THE ARCHITECT, INTERIOR DESIGNER, FLOORING MANUFACTURER REPRESENTATIVES, HOSPITAL MAINTENANCE STAFF, AND FLOORING SUBCONTRACTOR TO REVIEW PROCEDURES REGARDING FLOORING INSTALLATIONS AND MAINTENANCE OPTIONS AND PROCEDURES PRIOR TO INSTALLATION OF FLOORING MATERIALS. SUBMIT SEAMING DIAGRAMS PRIOR TO THIS MEETING.
7. IN THE EVENT OF A CONFLICT BETWEEN THE FINISH KEY AND THE SPECIFICATIONS, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO ORDER AND INSTALLATION OF MATERIALS.
8. REFER TO BALANCE OF PLANS AND SPECIFICATIONS FOR FINISH MATERIALS AND REQUIREMENTS NOT INDICATED HEREIN (PARTITION TYPES, CEILINGS, ETC).
9. REFER TO REFLECTED CEILING PLAN SHEETS (A-140s) FOR CEILING FINISH LOCATIONS.
10. REFER TO WALL PROTECTION PLANS (ID140s) FOR WALL PROTECTION, CORNERGUARD, HAND RAIL, CRASH RAIL, ETC. LOCATIONS AND TYPES.
11. REFER TO INTERIOR FINISH PLANS FOR (ID100s) FLOOR FINISH LOCATIONS AND TYPES.
12. REFER TO INTERIOR ELEVATIONS (ID200s) FOR ADDITIONAL INFORMATION ON EXTENDS AND LIMITS OF WALL FINISHES.

INTERIOR ABBREVIATIONS

AC	ACOUSTICAL CEILING TILE & PANEL	QS	QUARTZ SURFACE
AWP	ACOUSTICAL WALL PANELS	QT	QUARRY TILE
BB	BEAD BOARD / WAINSCOTT	RB	RESILIENT WALL BASE
C	CARPET & CARPET TILE	RBM	RESILIENT WALL BASE MILLWORK PROFILE
CC	CUBICAL CURTAIN & TRACK		
CG	CORNER GUARD	RF	RUBBER FLOORING
CHR	CHAIR RAIL	RP	RESIN PANEL
CONC	CONCRETE	RR	RUB RAIL
CR	CRASH RAIL	SB	SUPPORT BRACKET
CRM	CROWN MOLDING	SC	SEALED CONCRETE
CT	CERAMIC TILE	SDT	STATIC DISSIPATIVE FLOORING
DF	DECORATIVE FILM	SF	SEAMLESS FLOORING
DM	DECORATIVE METALS	SS	STAINLESS STEEL
DRC	DOOR FRAME CASING	SSM	SOLID SURFACE MATERIAL
EF	EPOXY FLOORING	ST	STONE
FE	FINISHED END	SV	SHEET VINYL
FP	FILLER PANEL	SWP	SPECIALTY WALL PANELS
FRP	FIBERGLASS REINFORCED PLASTIC PANEL	T	TRANSITION STRIP
		TB	TILE BASE
FWP	FABRIC WRAPPED PANELS	TL	TILE
GL	GLASS	TP	TOILET PARTITION
GWB	GYPSUM WALL BOARD	TR	TRIM
GYP	GYPSUM	TS	TACKABLE SURFACE
HR	HAND RAIL	TZ	TERRAZZO
KP	KICK PLATE	VCT	VINYL COMPOSITION FLOORING
LF	LINOLEUM FLOORING	WB	WOOD BASE
LVT	LUXURY VINYL TILE	WC	WALLCOVERING
M	MISCELLANEOUS	WCS	WOOD CEILINGS
MC	METAL CEILINGS	WD	WOOD
MI	MIRRORS	WP	WALL PROTECTION / RIGID SHEET
P	PAINT	WS	WOOD STAIN
PC	PRIVACY CURTAIN	WT	WINDOW TREATMENTS
PCN	PAINTED CONCRETE	WV	WOOD VENEER
POCN	POLISHED CONCRETE	X	EXPOSED
PL	PLASTIC LAMINATE	XP	EXPOSED PAINTED

INTERIOR SYMBOL LEGEND

XXX-## FURNITURE TAG

XXX-## FINISH TAG
ACCENT FINISH DESIGNATION

XXX-### SPECIALTY EQUIPMENT TAG

FLOORING PATTERN / GRAIN RUN DIRECTION

W XXX-##
B XXX-##
F XXX-##

ROOM FINISH TAG
W = WALL FINISH
B = BASE FINISH
F = FLOOR FINISH
NOTE: "ROOM FINISH TAG" INDICATES THE PREDOMINANT FINISHES USED IN THE ROOM. REFER TO FINISH PLANS, INTERIOR ELEVATIONS, AND FINISH TAGS FOR ACCENT FINISHES.

FLOOR DRAIN, RE: ARCH / PLUMBING
NOTE: SLOPE FINISHED FLOORING TO DRAIN, 2% SLOPE MAX. FLOOR MATERIALS TO BE CUT, MITERED, AND/OR MODIFIED AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE IN ENTIRE ROOM TO ALL FLOOR DRAIN LOCATIONS. PROVIDE PROPER NOTATION IN SHOP DRAWINGS. POSITIVE DRAINING TO BE VERIFIED IN THE FIELD BY CONTRACTOR.

S-# WALL / WINDOW MOUNTED SIGN

S-# DOOR MOUNTED SIGN

S-# CEILING MOUNTED SIGN

S-# DIRECTORY SIGN

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INTERIOR GENERAL NOTES & FINISH KEY

SHEET NUMBER

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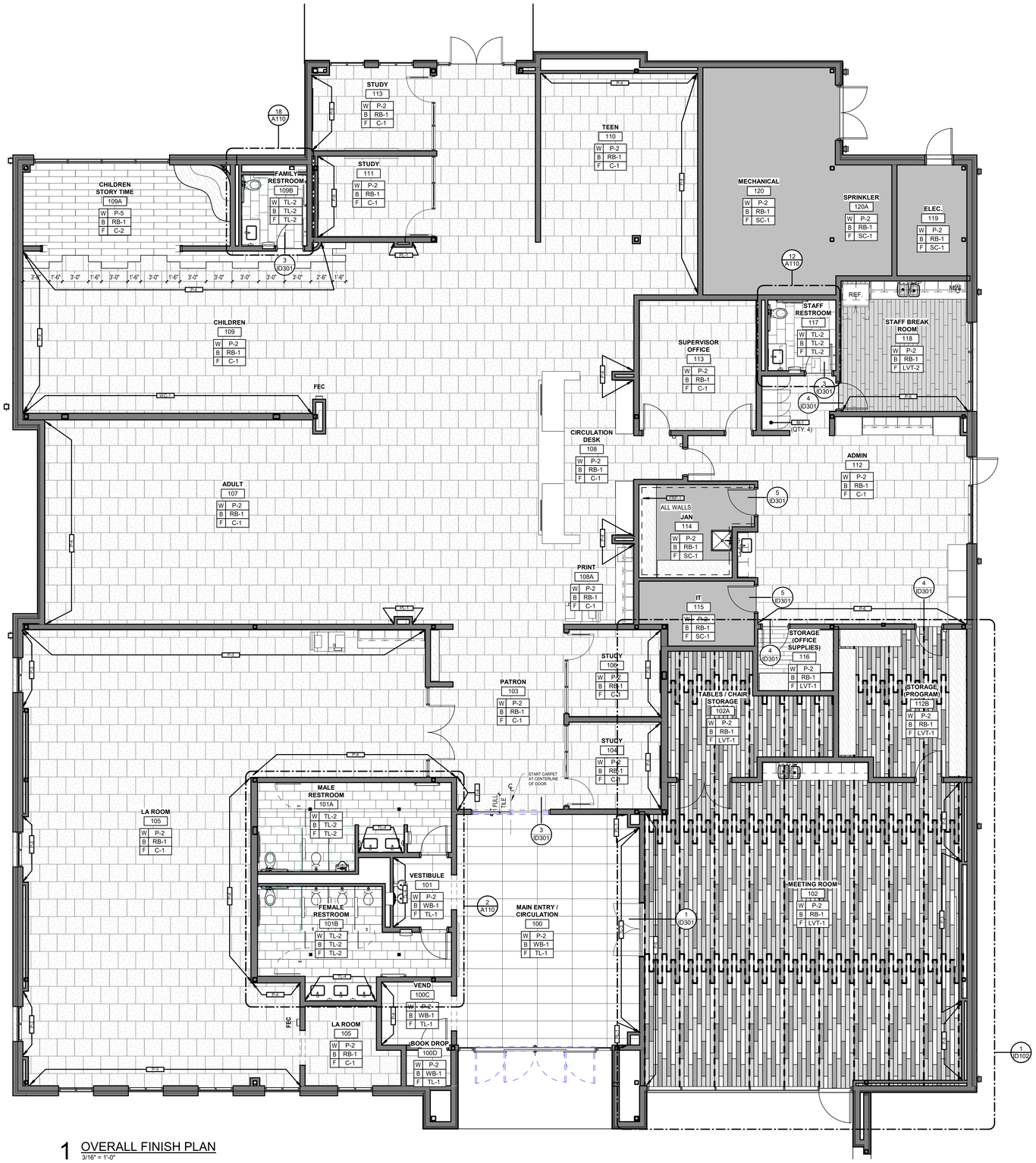


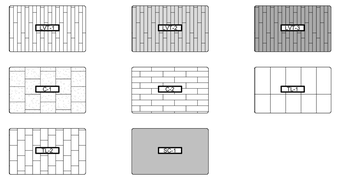
1 OVERALL FINISH PLAN
3/16" = 1'-0"

INTERIOR FINISH INSTALLATION NOTES

1. ALL ITEMS IN OR LOCATED IN OR ON WALLS AND/OR CEILINGS (I.E. ELECTRICAL PANELS, FIRE PROTECTION CABINETS, SPRINKLER COVER PLATES, MECHANICAL GRILLES AND PANELS, ACCESS PANELS, RECESSED SPEAKERS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE COLOR IN A SEMI-GLOSS ALKYD ENAMEL, UNLESS NOTED OTHERWISE OR OTHER MANUFACTURER FINISHES ARE SPECIFIED. ELECTRICAL COVERPLATES TO MATCH ADJACENT WALL FINISH.
2. ALL EPOSED DUCTWORK, ELECTRICAL CONDUIT, PLUMBING SUPPLY, WASTE, OR VENTING AND ALL OTHER PIPING SHALL BE PAINTED TO MATCH ADJACENT SURFACE FINISH UNLESS NOTED OTHERWISE.
3. ALL DESIGNATED "ACCENT" WALLS (I.E. WALLS WITH SPECIALTY PAINT, WALLCOVERINGS, GRAPHICS, TELEVISIONS, DISPLAYS, ETC) SHALL BE COMPLETELY CLEAR OF ALL EQUIPMENT (I.E. STROBES, THERMOSTATS, SWITCHES, POWER, DATA, F.E.C., F.H.C., ETC.) IF ANY CONFLICT OCCURS CONTACT ARCHITECT PRIOR TO INSTALLATION.
4. WHERE MULTIPLE FINISHES ARE INDICATED ON ANY SURFACE, REFER TO THE INTERIOR DRAWINGS FOR THE EXTENT OF EACH FINISH.
5. CLOSETS WITHIN A ROOM SHALL RECEIVE THE SAME FLOORING, BASE, AND WALL FINISHES AS THE ADJACENT ROOM, UNLESS OTHERWISE NOTED.
6. ALL FLOORING AS SCHEDULED TO BE INSTALLED THROUGHOUT THE ENTIRE EXTENTS OF INTERIOR SPACES PRIOR TO INSTALLION OF ALL MILLWORK, CASEWORK, COUNTERTOPS, FURNITURE, FIXTURES, AND EQUIPMENT, ETC. TYP. AT ALL LOCATIONS. ALL WALL FINISHES AS SCHEDULED TO BE INSTALLED BEHIND OR UNDER OPEN MILLWORK / CASEWORK WHEN WALL OR FLOOR IS EXPOSED TO VIEW.
7. ALL SHEET VINYL LOCATED UNDER PATIENT BEDS TO HAVE EPOXY ADHESIVE PER MANUFACTURER'S REQUIREMENTS.
8. THE CONTRACTOR SHALL COORDINATE FLOORING INSTALLATION WITH EQUIPMENT (FLOOR TRACKS, FLOOR TRENCHES, ETC.)
9. PROVIDE CONTROL JOINTS AT EITHER SIDE OF ALL DOOR & WINDOW HEADS & DOWN CORRIDORS.
10. REFER TO FINISH KEY AND/OR FINISH PLANS FOR RUN DIRECTION AND INSTALLATION METHOD OF FLOORING. IF RUN DIRECTION AND INSTALLATION METHOD IS NOT NOTED, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
11. MITER INSIDE AND OUTSIDE CORNERS OF PROFILED BASE AT ALL LOCATIONS. WOOD BASE AT HOLLOW METAL FRAMES TO BE "ANGLED BACK".
12. ALL RESILIENT BASE TO BE FIT TIGHT TO WALL AND FINISH FLOOR.
13. PROVIDE CONSISTENT BUTTERFLY WELDING AT ALL OUTSIDE CORNERS OF INTEGRAL BASE LOCATIONS. CONTRACTOR TO PROVIDE MOCK UP OF INTEGRAL BASE CORNER FOR APPROVAL BY ARCHITECT / DESIGNER PRIOR TO INSTALLATION.
14. FINISHES THAT HAVE REPEATED "FACE" PATTERNS / DESIGNS SHALL BE INSTALLED SO THAT NO TWO REPEATED FACES ARE INSTALLED ADJACENT TO ONE ANOTHER.
15. INSTALL TILE PER TCNA GUIDELINES, SEE SPECIFICATIONS FOR REQUIRED ADHESIVES AND INSTALLATION METHODS. INSTALL CONTROL & MOVEMENT JOINTS TO MEET TCNA STANDARDS.
16. INSTALL CEMENTITIOUS BACKER BOARD AT ALL LOCATIONS WITH WALL TILE, TYP.
17. EPOXY GROUT SHALL BE USED AT ALL WET LOCATIONS FOR WALLS AND FLOORS.
18. ALL FLOOR AND WALL FINISH JOINT/GROUT LINES TO ALIGN AT ALL LOCATIONS WHERE POSSIBLE UNLESS NOTED OTHERWISE.
19. PROVIDE METAL SCHLUTER TRIM ON ALL EXPOSED EDGES OF WALL TILE HORIZONTAL AND VERTICAL UNLESS NOTED OTHERWISE. FINISH TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.
20. PROVIDE METAL SCHLUTER ADA TRANSITION STRIPS AT ALL CHANGES IN FLOORING MATERIALS UNLESS NOTED OTHERWISE. ALL TRANSITION STRIPS TO HAVE THE LOWEST PROFILE POSSIBLE. CONTRACTOR TO COORDINATE SIZE WITH ADJACENT MATERIAL THICKNESS.
21. WHENEVER FLOORING TRANSITION OCCURS AT A DOOR OPENING, LOCATE TRANSITION STRIP AT CENTERLINE OF DOORWAYS OR DOORS WHEN IN THE CLOSED POSITION.
22. FLOAT FLOOR AS REQUIRED TO ACHIEVE A FLUSH TRANSITION AT ALL CHANGES IN MATERIALS WHEN PRODUCTS OF DIFFERENT THICKNESS ARE INSTALLED ADJACENT TO ONE ANOTHER, THE CONTRACTOR SHALL FLOAT THE FLOOR WITH A RISE OF NO GREATER THAN 1/8" PER FOOT. FLOOR TRANSITION IS TO BE SMOOTH AND UNIFORM.
23. COORDINATE ALL ELEVATOR CAB FINISHES AND SELECTIONS WITH ARCHITECT PRIOR TO ORDERING.
24. ALL AREAS DISTURBED BY NEW CONSTRUCTION SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINISHES. TRANSITIONS BETWEEN NEW AND EXISTING FINISHES SHALL BE SMOOTH AND UNIFORM.
25. FLOOR MATERIALS TO BE CUT, MITERED, AND OR MODIFIED AS REQUIRED TO RECEIVE POSITIVE DRAINAGE TO ALL FLOOR DRAINS. PROVIDE PROPER DOCUMENTATION IN SHOP DRAWINGS FOR REVIEW. POSITIVE DRAINAGE TO BE VERIFIED IN THE FIELD BY CONTRACTOR.
26. WHERE A SURFACE IS TO BE PAINTED, PROVIDE THE FOLLOWING FINISHES, UNLESS OTHERWISE NOTED:
    - A. HOLLOW METAL DOORS AND FRAMES: SEMI-GLOSS
    - B. GYPSUM BOARD WALLS: EGGSHELL
    - C. GYPSUM BOARD CEILINGS AND SOFFITS: FLAT
    - D. ALL OTHER PAINTED SURFACES: EGGSHELL
    - E. GYPSUM BOARD WALLS AND CEILINGS IN ALL WET LOCATIONS (I.E. RESTROOMS, KITCHENS, SERVICE ROOMS, ETC.: EPOXY SEMI-GLOSS)
    - F. ALL WOOD TRIM AND MILLWORK: SEMI-GLOSS FINISH
27. PROVIDE MATCHING CAULK AT THE FOLLOWING AREAS:
    - A. DOOR FRAMES TO WALL, CEILING, AND FLOOR
    - B. PLUMBING FIXTURES TO WALL AND FLOOR
    - C. WALL BASE TO DOOR FRAME
    - D. CABINETS, COUNTERTOPS AND/OR BACKSPLASH TO WALL
    - E. ALL WALL PROTECTION PANELS, CRASH RAILS, AND HANDRAILS TO WALL, BASE, AND DOOR FRAMES
28. GENERAL FINISHES UNLESS NOTED OTHERWISE:
    - A. WALLS: P-2
    - B. WOOD BASE: P-3
    - C. DOOR FRAMES: P-3

INTERIOR FLOOR FINISH LEGEND

REFER TO FINISH KEY FOR ADDITIONAL INFORMATION



INTERIOR FINISH SYMBOL LEGEND

XXX-## FINISH TAG
ACCENT FINISH DESIGNATION

XXX-### SPECIALTY EQUIPMENT TAG

FLOORING PATTERN / GRAIN RUN DIRECTION

W XXX-##
B XXX-##
F XXX-## ROOM FINISH TAG
W = WALL FINISH
B = BASE FINISH
F = FLOOR FINISH

NOTE: "ROOM FINISH TAG" INDICATES THE PREDOMINANT FINISHES USED IN THE ROOM. REFER TO FINISH PLANS, INTERIOR ELEVATIONS, AND FINISH TAGS FOR ACCENT FINISHES.

FLOOR DRAIN, RE: ARCH / PLUMBING
NOTE: SLOPE FINISHED FLOORING TO DRAIN, 2% SLOPE MAX. FLOOR MATERIALS TO BE CUT, MITERED, AND/OR MODIFIED AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE IN ENTIRE ROOM TO ALL FLOOR DRAIN LOCATIONS. PROVIDE PROPER NOTATION IN SHOP DRAWINGS. POSITIVE DRAINING TO BE VERIFIED IN THE FIELD BY CONTRACTOR.

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OVERALL FINISH PLAN - FIRST FLOOR

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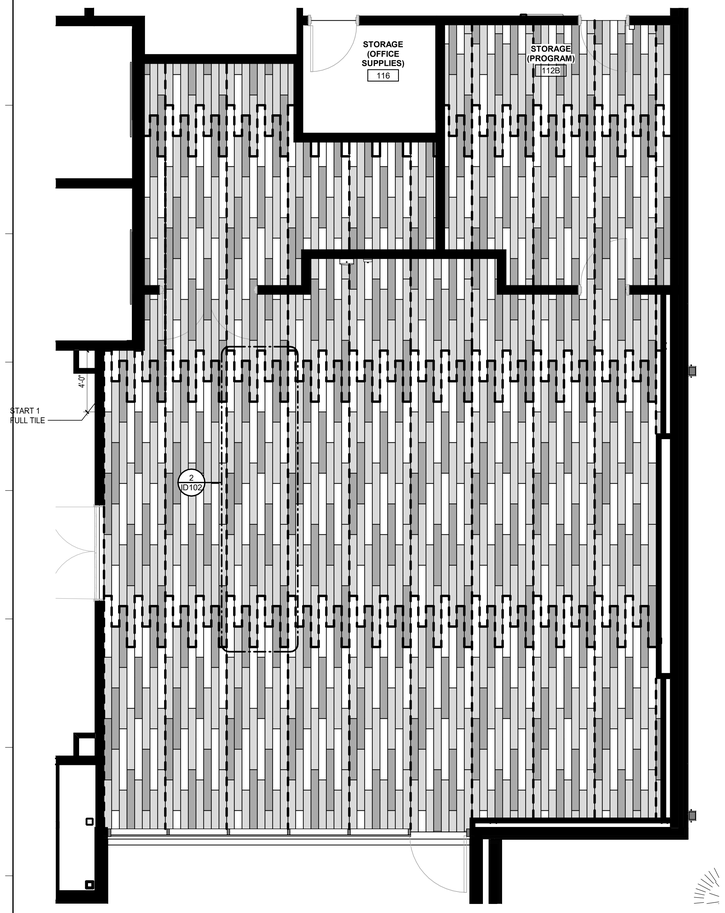
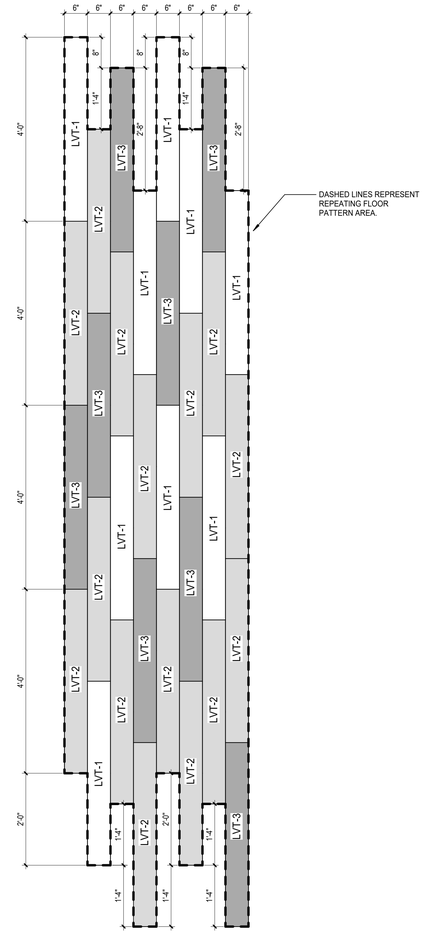


1 ENLARGED MEETING ROOM FLOOR PATTERN PLAN
1/4" = 1'-0"



2 ENLARGED MEETING ROOM PATTERN REPEAT
3/4" = 1'-0"

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ENLARGED FINISH PLAN

SHEET NUMBER
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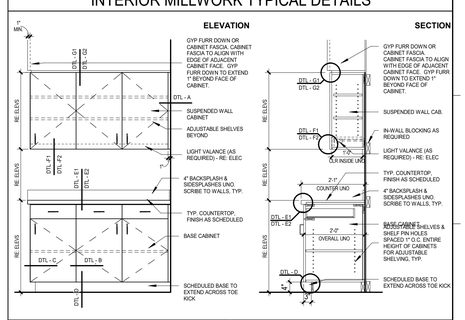
1 OVERALL MILLWORK PLAN
3/16" = 1'-0"

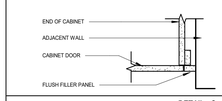
INTERIOR MILLWORK GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS IN THE FIELD & PROVIDE PROPER NOTATIONS IN THE SHOP DRAWING SUBMITTALS PRIOR TO FABRICATION & INSTALLATION.
2. CONTRACTOR TO COORDINATE ALL CLEARANCES, POWER LOCATIONS, & VENTILATION REQUIREMENTS FOR ALL APPLIANCES, EQUIPMENT, & PLUMBING PRIOR TO FABRICATION. CONTRACTOR TO COORDINATE ALL CLEARANCES FOR COVERPLATES & ELECTRICAL OUTLETS SO THAT THEY CLEAR ALL MILLWORK, COUNTERTOPS, & BACKSPLASHES. CONTRACTOR TO COORDINATE DEPTHS OF ALL COUNTERTOPS WITH COUNTER MOUNTED EQUIPMENT.
3. CONTRACTOR TO PROVIDE & COORDINATE BLOCKING IN ALL WALLS REQUIRED FOR PANELING SYSTEM, CABINETS, COUNTERTOPS, & SUPPORT BRACKETS. COORDINATE WALL-MOUNTED ITEMS WITH REVEAL SYSTEM (CENTER IN PANEL WHERE POSSIBLE UNLESS NOTED OTHERWISE).
4. DRAWINGS & NOTES CONVEY THE DESIGN INTENT & AIM TO DEPICT ALL PRIMARY PANEL ELEVATIONS. CONTRACTOR IS TO INCLUDE ALL INFERRED OR ASSUMED RETURN PANELS & ASSOCIATED POSTS, REVEALS, TRANSITIONS, ETC. THAT ARE REQUIRED BY THE DESIGN INTENT & MAINTAIN A CONSISTANT APPROACH ACCROSS THE PROJECT.
5. DETAILS ARE SHOWN FOR DESIGN INTENT ONLY. FABRICATOR TO CONFIRM ALL STRUCTURAL REQUIREMENTS & FABRICATION METHODS ARE SAFE FOR HEAVY COMMERCIAL USE. FABRICATOR TAKES FULL RESPONSIBILITY THAT FABRICATION MEANS & METHODS MEET OR EXCEED OWNER'S REQUIREMENTS & ARE SAFE FOR PUBLIC USE.
6. DIMENSIONS ARE NOTED FROM FACE OF FINISH UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS FOR ALL CABINET SIZES. ANY DEVIATIONS FROM DIMENSIONS OR LAYOUT MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ALL SWITCHES, OUTLETS, THERMOSTATS, FIRE ALARM DEVICES, CONTROLS, ETC. IN MILLWORK ARE TO BE LOCATED BY THE ARCHITECT IF DIMENSIONS ARE NOT INDICATED IN THE DRAWINGS. NOTED HEIGHTS AND DEPTHS INDICATE TYPICAL CONDITIONS. REFER TO MILLWORK PLANS AND ELEVATIONS FOR CABINET DIMENSIONS & SPECIAL REQUIREMENTS.
7. ALL MILLWORK SHALL BE MANUFACTURERD IN ACCORDANCE WITH ARCHITECTURAL WOODWORKING INSTITUTE QUALITY STANDARD FOR "CUSTOM GRADE" SPECIFICATIONS.
8. ALL CABINETS TO BE TO BE FLUSH OVERLAY UNLESS NOTED OTHERWISE
9. SUSPENDED WALL CABINET WIDTH TO ALIGN WITH BASE CABINET WIDTH UNLESS NOTED OTHERWISE.
10. ADA HEIGHT TO BE TOP OF HIGHEST POINT. IF TOP MOUNTED SINK IS SPECIFIED, THEN ADA HEIGHT IS TO ALIGN WITH THE TOP OF SINK. WHERE ADA ROLL-UNDER SINK APRON IS ADJACENT TO MILLWORK WITH DRAWERS, ALL TOP DRAWERS SHALL ALIGN WITH VERTICAL PANEL OF SINK APRON. PROVIDE NOTATION IN SHOP DRAWINGS FOR VERIFICATION BY ARCHITECT.
11. WHERE COUNTERTOPS OF TWO DIFFERENT HEIGHTS MEET, PROVIDE WATERFALL EDGE TRANSITION BETWEEN HEIGHTS. BACKSPLASH SHALL BE 4" FROM THE HIGHER SURFACE & BE CONTINUOUS ACROSS ENTIRE WALL. ALL BACKSPLASHES TO ALIGN, TYP.
12. PROVIDE FILLER PANELS AS REQUIRED. 1-1/2" TYPICAL MAXIMUM, NOT TO EXCEED 3" AT WALLS & CORNER CABINET JUNCTURES TO ALLOW PROPER DOOR & DRAWER OPERATION. MILLWORK DOORS THAT OCCUR ADJACENT TO & END WALL HINGES ARE TO STOP AT 90 DEGREES TO PREVENT DOOR & HARDWARE FROM INTERFERING WITH THE ADJACENT WALL.
13. PROVIDE FINISHED END PANELS & / OR END RETURNS AT OPEN ENDED MILLWORK. ALL EXPOSED MATERIALS TO BE FINISHED.
14. PROVIDE LIGHT VALANCE AT ALL UNDERCABINET TASK LIGHTING LOCATIONS. REFER TO INTERIOR ELEVATIONS FOR UNDERCABINET LIGHTING LOCATIONS. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR.
15. ALL SHELVES ARE TO BE ADJUSTABLE UNLESS NOTED OTHERWISE. ALL SHELVES WITH SPANS OF 32"-42" LONG SHALL BE 1" THICK. ALL SHELVES WITH SPANS OF 42"-48" SHALL BE 1-1/2" THICK.
16. TWO-PART CLEAR CAULK / SEALANT TO BE USED ON ALL MILLWORK. NO COLORED CAULK WILL BE ACCEPTED. WHITE CAULK MAY ONLY BE USED ON WHITE SURFACES ONLY. TWO-PART CAULK / SEALANT TO BE PROVIDED AT ALL COUNTERTOPS, CRACKS & SEAMS ON INTERIOR & / OR EXPOSED SURFACE OF CABINETS, INCLUDING THE RETURN ABOVE KICKBOARD TO PREVENT THE PASSAGE OF INSECTS. ADJACENT PIECES OF MILLWORK SHALL BE TIGHTLY FITTED TOGETHER WITHOUT GAPS.
17. ALL STAINED MILLWORK AND TRIM SHALL BE SHOP-FINISHED.
18. NO WOOD MOULDINGS MAY TERMIATE ON AN OUTSIDE CORNER OR BE BUTT JOINED. ALL WOOD MOULDINGS SHALL TERMINATE ON AN INSIDE CORNER AND BE MITERED. WOOD BASE AT HOLLOW METAL FRAMES TO BE "ANGLED BACK."
19. ALL MILLWORK SHALL HAVE A MELAMINE INTERIOR FINISH ON INTERIOR SURFACES UNLESS OTHERWISE NOTED. DESIGNER TO SELECT COLOR FROM MANUFACTURER'S FULL RANGE OF FINISHES. PROVIDE PROPER NOTATION IN SHOP DRAWINGS FOR VERIFICATION.
20. TYPICAL HARDWARE UNLESS NOTED OTHERWISE:
    - A. GROMMETS: PROVIDE ONE (1) 2" STAINLESS STEEL GROMMET AT ALL KNEE SPACES, ONE (1) AT EVERY 4'-0" OC AT CONTINUOUS KNEE SPACES, AND AT ALL COUNTERTOPS ABOVE OUTLETS. VERIFY ALL LOCATIONS WITH OWNER IN THE FIELD PRIOR TO INSTALLATION.
    - B. DRAWER & DOOR PULLS: DOUG MOCKETT DP269B - 7 7/8" DROP EDGE ADA DRAWER PULL, INSTALLED RECESSED FLUSH INTO DOOR & DRAWERS. FINISH TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. PROVIDE DRAWER PULLS AT ALL FALSE FRONTS.
    - C. SUPPORT BRACKETS: PROVIDE INSIDE-WALL / HIDDEN COUNTERTOP SUPPORT BRACKETS AT 36" OC MAX FOR CONTINUOUS KNEE SPACE & OPEN SHELVES. CONTRACTOR TO VERIFY EXACT MODEL NUMBER WITH COUNTERTOP LENGTH. COORDINATE "RIGHT-SIDE, LEFT-SIDE, OR UNIVERSAL FLANGE" WITH STUD LOCATIONS. INSTALL PER MANUFACTURER'S GUIDELINES. CONTRACTOR TO VERIFY ALL SUPPORT BRACKETS ARE FREE & CLEAR FROM ACCESS PANELS, TYP.
    - D. ALL DOOR HINGES AND DRAWER GUIDES TO BE SOFT-CLOSE.
    - E. REFER TO INTERIOR ELEVATIONS FOR ALL CABINETS REQUIRING LOCKS.
    - F. ALL FASTENERS TO BE CONCEALED.
21. TYPICAL MILLWORK FINISHES UNLESS NOTED OTHERWISE:
    - A. BASE & UPPER CABINETS: PL-1
    - B. COUNTERTOPS: SSM-1
    - C. WINDOW SILLS: SSM-1

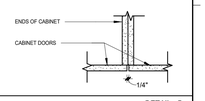
INTERIOR MILLWORK TYPICAL DETAILS



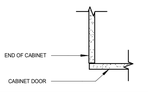
DETAIL - A
PLAN - CABINET / END RUN FILLER



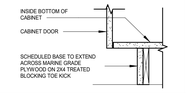
DETAIL - B
PLAN - CABINET TO CABINET



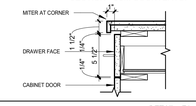
DETAIL - C
PLAN - FINISHED END OF CABINET



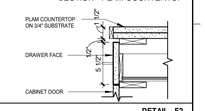
DETAIL - D
SECTION - TOE KICK



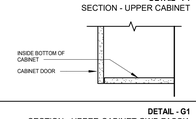
DETAIL - E1
SECTION - SSM COUNTERTOP



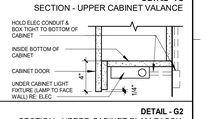
DETAIL - E2
SECTION - PLAM COUNTERTOP



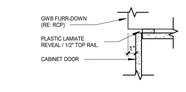
DETAIL - F1
SECTION - UPPER CABINET



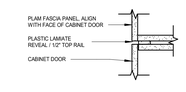
DETAIL - F2
SECTION - UPPER CABINET VALANCE



DETAIL - G1
SECTION - UPPER CABINET GWB FASCIA



DETAIL - G2
SECTION - UPPER CABINET PLAM FASCIA



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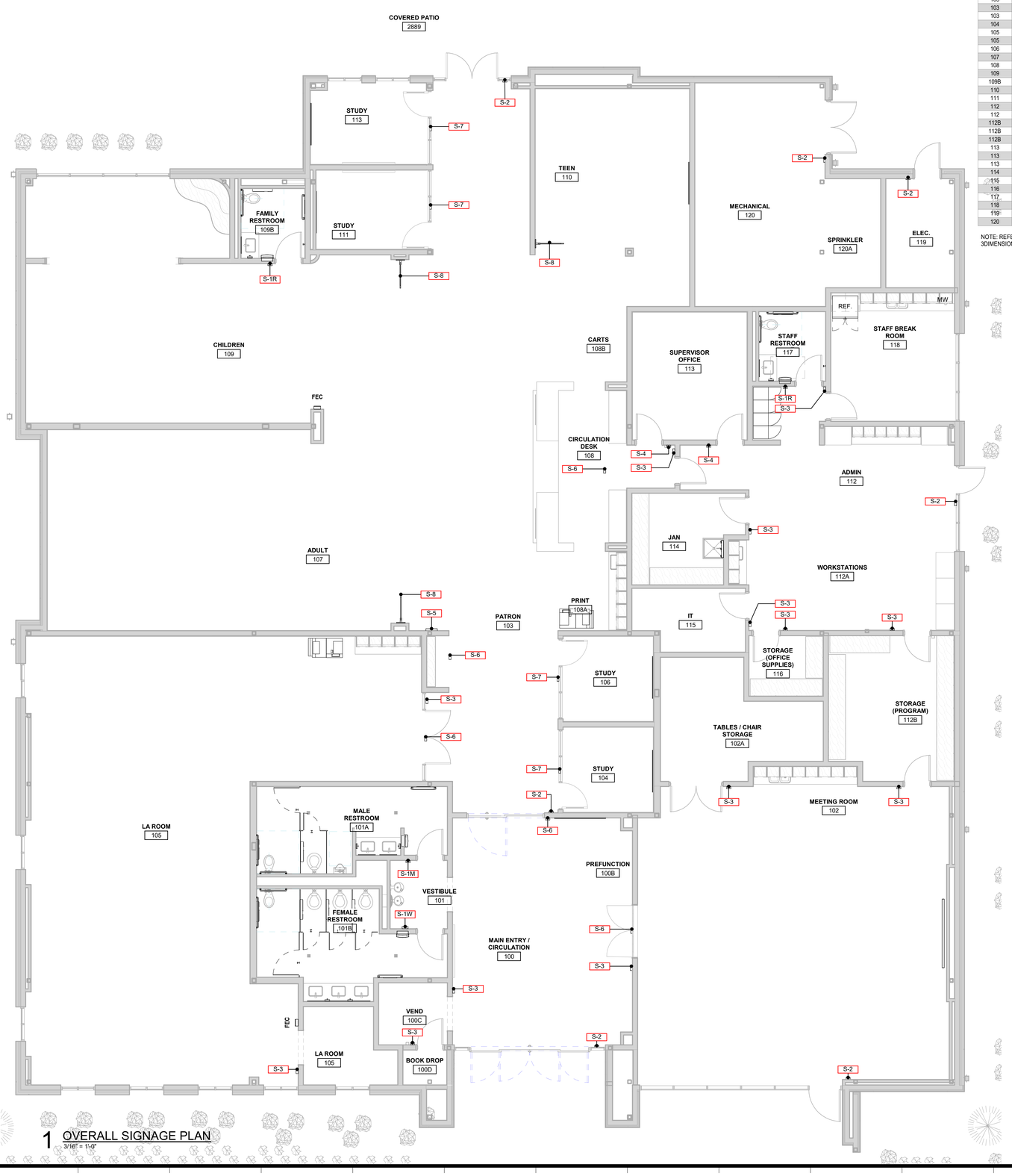
OVERALL MILLWORK PLAN - FIRST FLOOR

SHEET NUMBER
ID121



1 OVERALL SIGNAGE PLAN
3/16" = 1'-0"

INTERIOR SIGNAGE SCHEDULE

ROOM NUMBER	ROOM NAME	SIGN TYPE	SIGN TEXT
100B	PREFUNCTION	S-2	EXIT
100B	PREFUNCTION	S-6	MEETING ROOM
100C	VEND	S-3	VENDING
100D	BOOK DROP	S-3	BOOK DROP
101A	MALE RESTROOM	S-1M	MEN
101B	FEMALE RESTROOM	S-1W	WOMEN
102	MEETING ROOM	S-3	MEETING ROOM
102	MEETING ROOM	S-2	EXIT
102A	TABLES / CHAIR STORAGE	S-3	STORAGE
103	PATRON	S-2	EXIT
103	PATRON	S-6	WELCOME; OUR MISSION IS TO EMPOWER OUR COMMUNITY TO EXPLORE, LEARN, CREATE, AND CONNECT.
103	PATRON	S-5	**EVACUATION PLAN**
103	PATRON	S-2	EXIT
103	PATRON	S-6	THE LOUISIANA ROOM
103	PATRON	S-6	NEW RELEASES
104	STUDY	S-7	STUDY ROOM: 1
105	LA ROOM	S-3	THE LOUISIANA ROOM
105	LA ROOM	S-3	**TBD BY OWNER**
106	STUDY	S-7	STUDY ROOM: 2
107	ADULT	S-8	ADULT
108	CIRCULATION DESK	S-6	INFORMATION DESK
109	CHILDREN	S-8	CHILDREN
109B	FAMILY RESTROOM	S-1R	RESTROOM
110	TEEN	S-8	TEEN
111	STUDY	S-7	STUDY ROOM: 3
112	ADMIN	S-3	ADMINISTRATION
112	ADMIN	S-2	EXIT
112B	STORAGE (PROGRAM)	S-3	STORAGE
112B	STORAGE (PROGRAM)	S-2	EXIT
112B	STORAGE (PROGRAM)	S-3	STORAGE
113	SUPERVISOR OFFICE	S-4	**NAME TBD BY OWNER**
113	SUPERVISOR OFFICE	S-4	**NAME TBD BY OWNER**
113	STUDY	S-7	STUDY ROOM: 4
114	JAN	S-3	JANITOR
115	IT	S-3	IT
116	STORAGE (OFFICE SUPPLIES)	S-3	STORAGE
117	STAFF RESTROOM	S-1R	RESTROOM
118	STAFF BREAK ROOM	S-3	BREAK ROOM
119	ELEC.	S-2	EXIT
120	MECHANICAL	S-2	EXIT

NOTE: REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL LAYOUT AND LETTERING OF 3DIMENSIONAL LETTERING AND VINYL APPLIED WINDOW GRAPHICS

INTERIOR SIGNAGE GENERAL NOTES

1. ALL NEW SIGNAGE BASIS OF DESIGN TO BE ASI REFLECTION SERIES. SEE SPECIFICATIONS FOR SIGNAGE MODULES.
2. ALL SIGNS TO BE INSTALLED AT ADA REQUIRED HEIGHTS AND DIMENSIONS. SEE DETAILS ON ADA MOUNTING. CONTRACTOR TO REFER TO THE LATEST ISSUED ADA STANDARDS AND NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO INSTALLATION.
3. FACILITY TO REVIEW ALL FINAL SIGNAGE VERBIAGE BY BEFORE PRODUCTION.
4. ALL SIGNAGE INSTALLED ON GLASS TO HAVE COLOR-MATCHED BACKER PLATE ON OPPOSITE SIDE OF GLASS TO CONCEAL ALL MOUNTING HARDWARE AND FASTENERS.
5. SIGNAGE VENDOR TO BE RESPONSIBLE FOR VERIFYING ALL SIGNAGE TYPES, SIZES, MOUNTING LOCATIONS, COLORS, ETC. MEET OT EXCEED ADA REQUIRMENTS.
6. SIGNAGE VENDOR TO SUBMIT PHYSICAL COLOR CHART FOR VERIFICATION OF COLORS PRIOR TO FABRICATION.
7. VENDOR TO VERIFY ADA CONTRAST LEVEL OF SELECTED COLORS MEETS REQUIREMENTS
8. TYPICAL SIGNAGE FINISHES:
   FRAME FINISH:___
   FONT COLOR:___
   BRAILLE COLOR: CLEAR
   PICTOGRAPH COLOR:
   BACK PANEL / 2ND SURFACE COLOR: ____
   PAPER INSERT COLOR:___
   FONT STYLE: ___

INTERIOR SIGNAGE SYMBOL LEGEND

S-# WALL / WINDOW MOUNTED SIGN
S-# DOOR MOUNTED SIGN
S-# CEILING MOUNTED SIGN
S-# DIRECTORY SIGN

INTERIOR SIGNAGE TYPICAL MOUNTING DETAILS

CONTRACTOR TO REFER TO THE LATEST ISSUED ADA STANDARDS

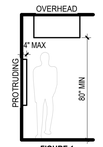


FIGURE 1
LIMITS OF PROTRUDING OBJECTS

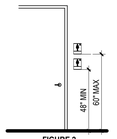


FIGURE 2
HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GRADE

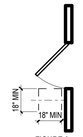
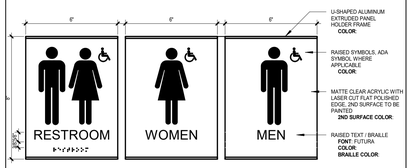


FIGURE 3
LOCATION OF TACTILE SIGNS AT DOORS

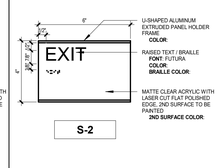
INTERIOR SIGNAGE TYPICAL SIGNAGE TYPES

SIGNAGE BASIS OF DESIGN: ASI REFLECTION SERIES. RE: SPECIFICATIONS FOR INSTALLATION



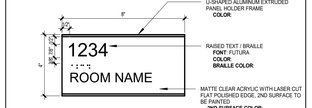
S-1R S-1W S-1M

ADA COMPLIANT RESTROOM ENTRANCE SIGNS



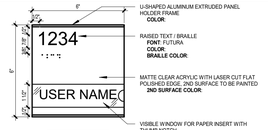
S-2

ADA COMPLIANT EXIT SIGNS



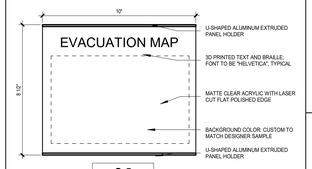
S-3

ADA COMPLIANT AUXILIARY ROOM DOOR ENTRANCE SIGNS



S-4

ADA OFFICE AND CONFERENCE DOOR ENTRANCE SIGNS



S-5

ADA COMPLIANT EVACUATION MAP SIGNS

SKETCH SHOWN FOR DESIGN INTENT ONLY. REFER TO INTERIOR ELEVATIONS AND SIGNAGE SCHEDULE FOR TEXT AND LAYOUT TO BE USED.

S-6

3-DIMENSIONAL INTERIOR LETTERING

SKETCH SHOWN FOR DESIGN INTENT ONLY. REFER TO INTERIOR ELEVATIONS AND SIGNAGE SCHEDULE FOR TEXT AND LAYOUT TO BE USED.

S-7

VINYL APPLIED LETTERING

S-8

DEPARTMENT WAYFINDING FLAG SIGNAGE

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OVERALL SIGNAGE PLAN - FIRST FLOOR

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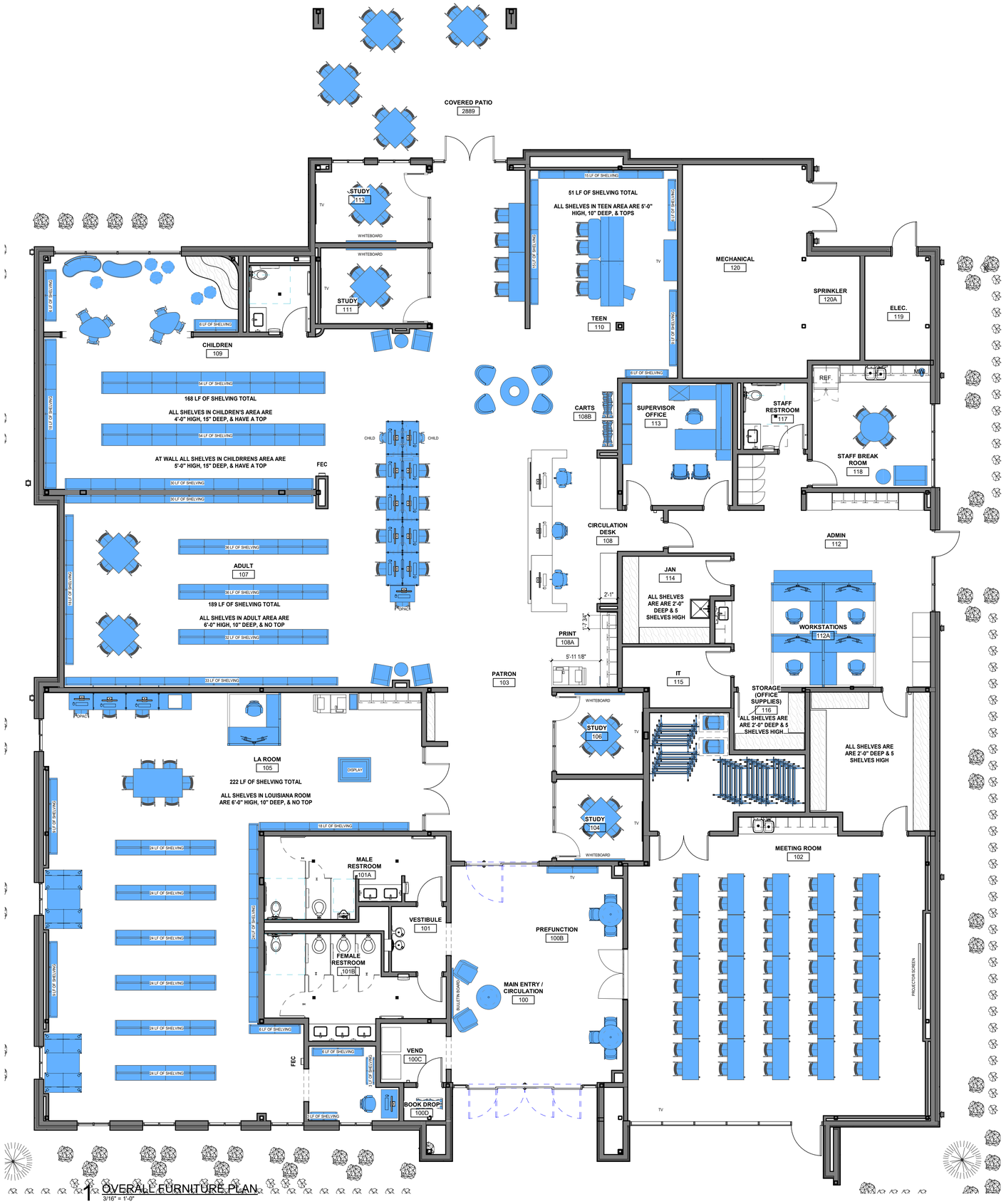

1 OVERALL FURNITURE PLAN
3/16" = 1'-0"

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OVERALL FURNITURE PLAN - FIRST FLOOR

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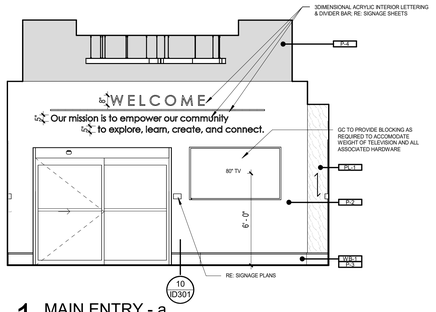
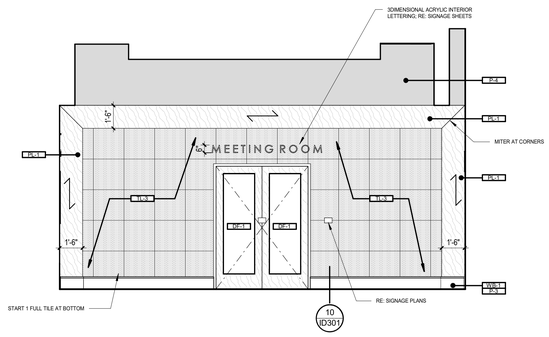


1 MAIN ENTRY - a
1/4" = 1'-0"



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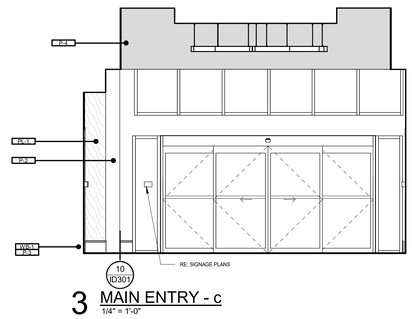

3 MAIN ENTRY - c
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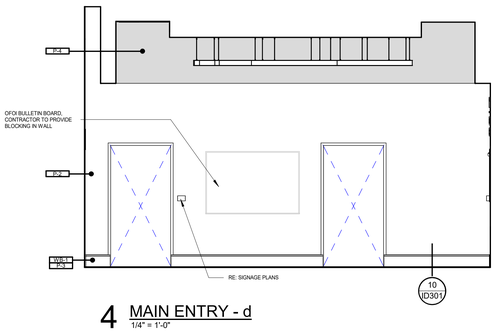

4 MAIN ENTRY - d
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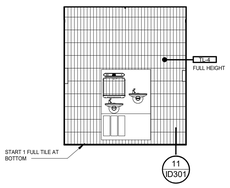
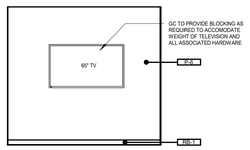


5 VESTIBULE - a
1/4" = 1'-0"



6 STUDY ROOM TYP - a
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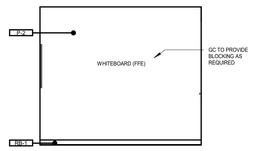
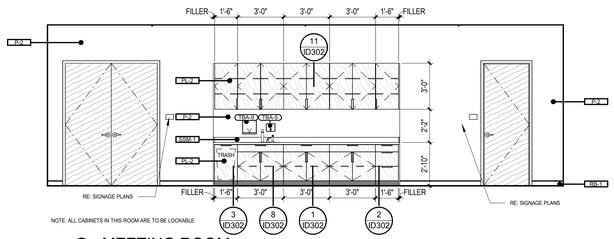
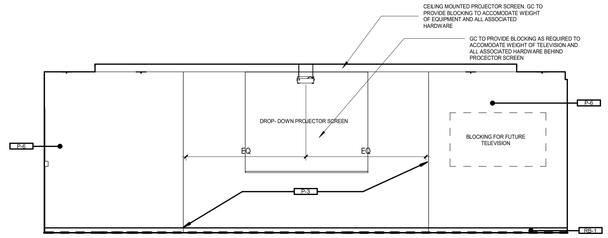


7 STUDY ROOM TYP - b
1/4" = 1'-0"



8 MEETING ROOM - a
1/4" = 1'-0"



9 MEETING ROOM - b
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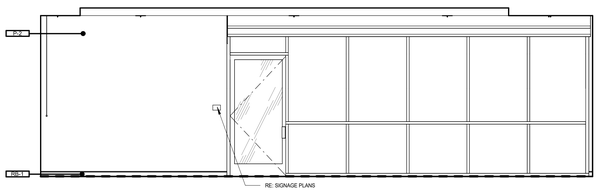
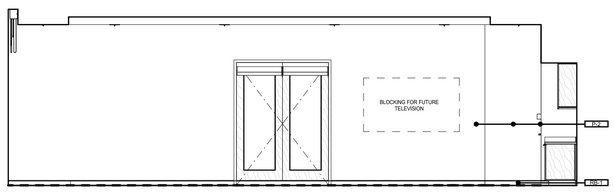
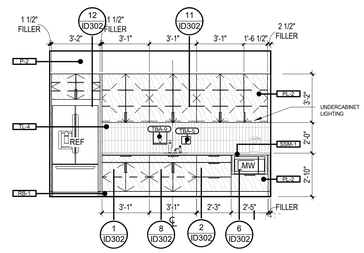


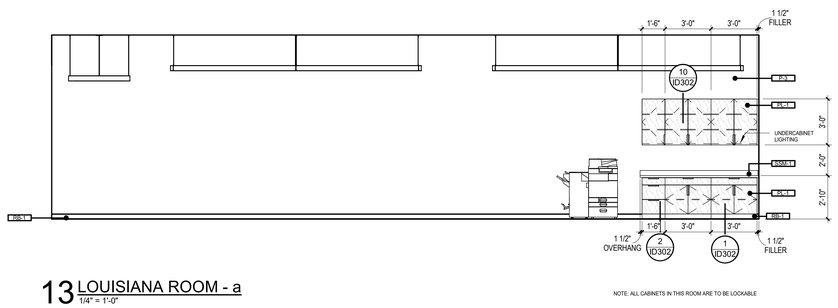
10 MEETING ROOM A - c
1/4" = 1'-0"



11 MEETING ROOM - d
1/4" = 1'-0"



12 STAFF BREAKROOM - a
1/4" = 1'-0"



13 LOUISIANA ROOM - a
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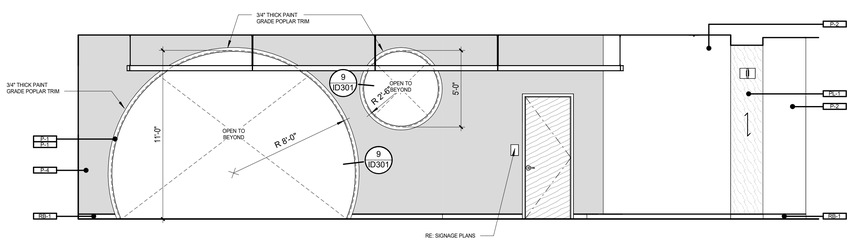

14 CHILDRENS - a
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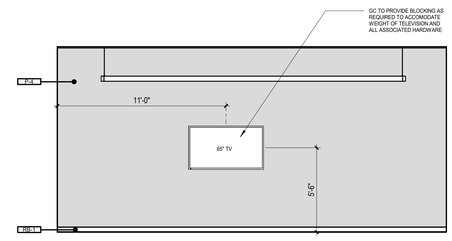
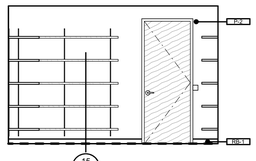
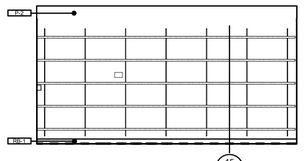


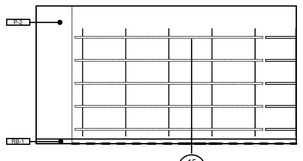
15 TEEN - a
1/4" = 1'-0"



16 STORAGE PROGRAM - a
1/4" = 1'-0"



17 STORAGE PROGRAM - b
1/4" = 1'-0"



18 STORAGE PROGRAM - c
1/4" = 1'-0"

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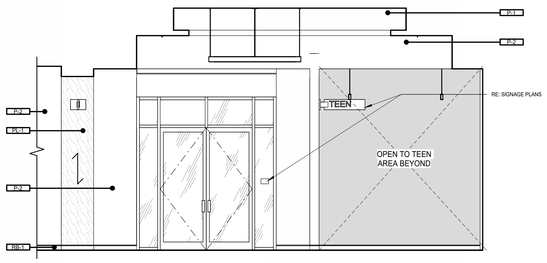
2	PRECON RFI 002	Date 2
3	90% Addenda 1	02.26.26

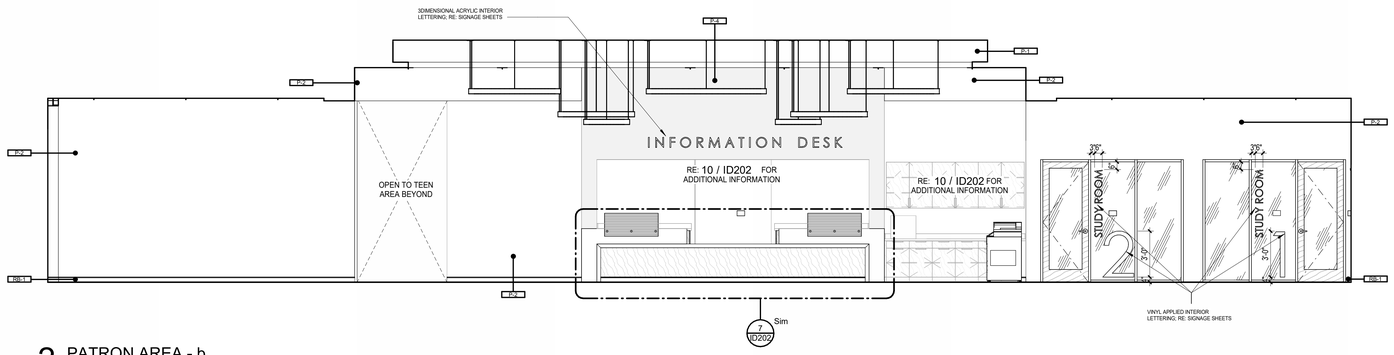
DATE: 04.17.26
PHASE: 100% CD
ISSUED FOR: PRICING
PROJECT NO: 4024101

INTERIOR ELEVATIONS

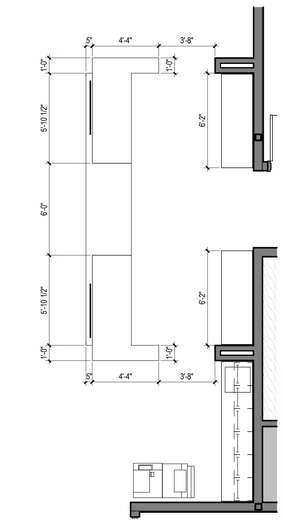
SHEET NUMBER
ID201



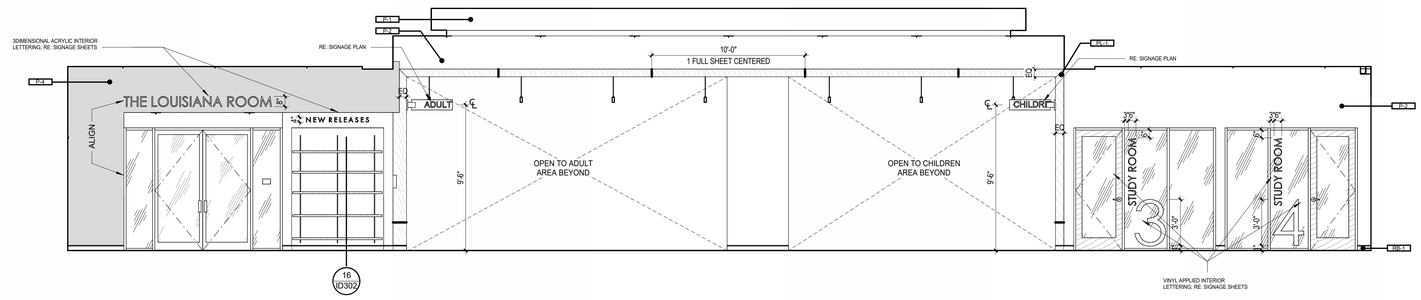
1 PATRON AREA - a
1/4" = 1'-0"



2 PATRON AREA - b
1/4" = 1'-0"

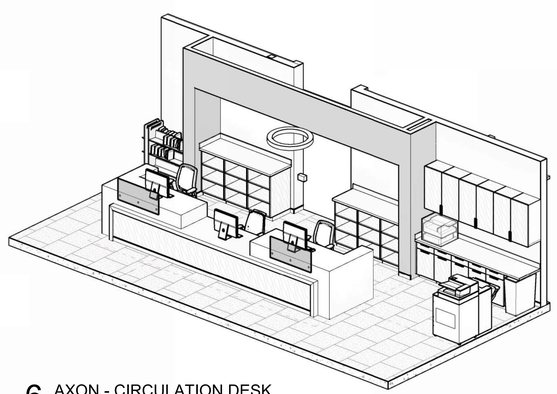


3 PATRON AREA - c
1/4" = 1'-0"

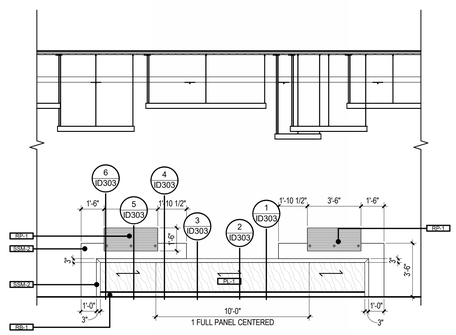


4 PATRON AREA - d
1/4" = 1'-0"

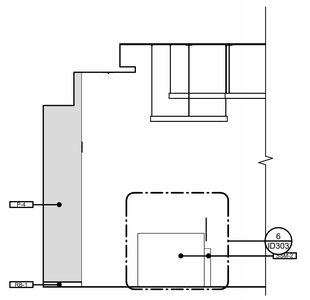
5 CIRCULATION DESK
1/4" = 1'-0"



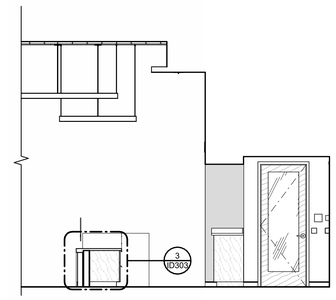
6 AXON - CIRCULATION DESK



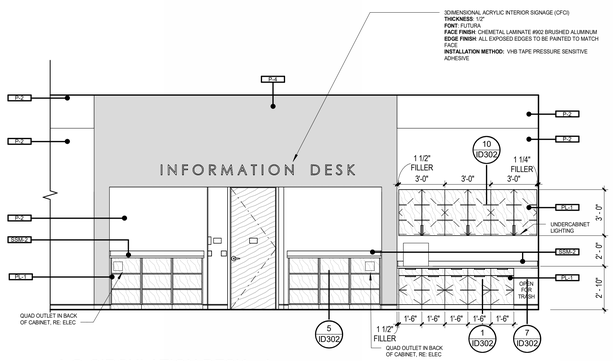
7 CIRCULATION DESK - a
1/4" = 1'-0"



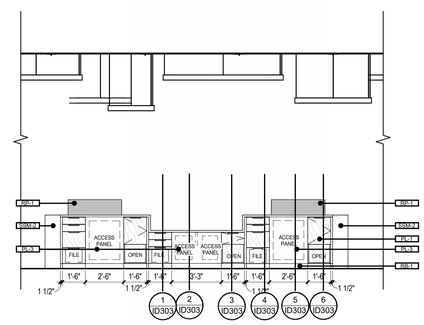
8 CIRCULATION DESK - b
1/4" = 1'-0"



9 CIRCULATION DESK - c
1/4" = 1'-0"



10 CIRCULATION DESK - d
1/4" = 1'-0"



11 CIRCULATION DESK - e
1/4" = 1'-0"

NOTE: ALL CABINETS IN THIS ROOM ARE TO BE LOCKABLE

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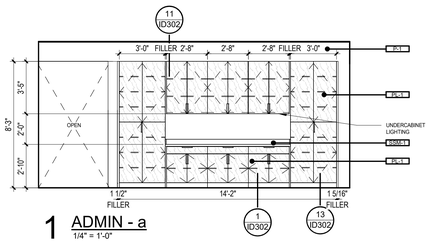
PROJECT NO: 4024101

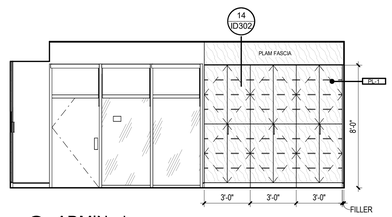
INTERIOR ELEVATIONS

SHEET NUMBER

ID202

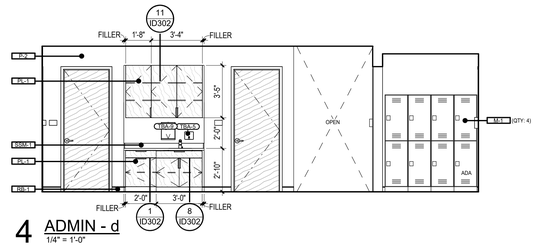


1 ADMIN - a
1/4" = 1'-0"

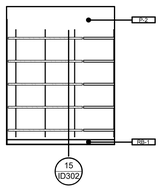


2 ADMIN - b
1/4" = 1'-0"

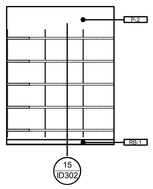
3 ADMIN - c
1/4" = 1'-0"



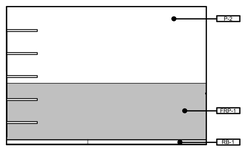
4 ADMIN - d
1/4" = 1'-0"



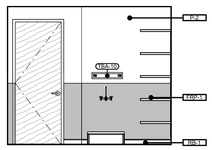
5 STORAGE SUPPLY - a
1/4" = 1'-0"



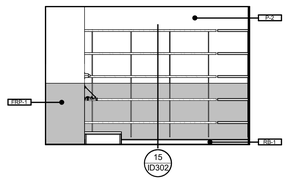
6 STORAGE SUPPLY - b
1/4" = 1'-0"



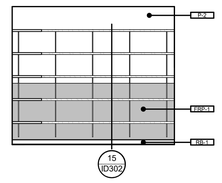
7 JANITOR - a
1/4" = 1'-0"



8 JANITOR - b
1/4" = 1'-0"



9 JANITOR - c
1/4" = 1'-0"



10 JANITOR - d
1/4" = 1'-0"

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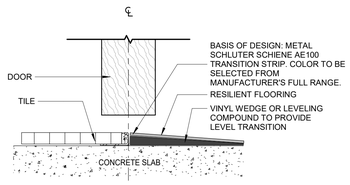
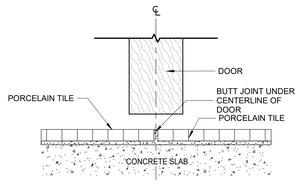
INTERIOR ELEVATIONS

SHEET NUMBER

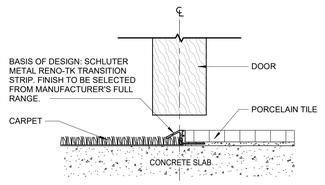
ID203



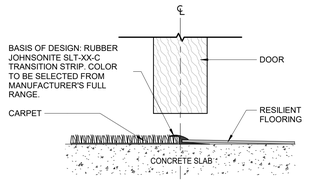
1 TILE TO RESILIENT
6" = 1'-0"



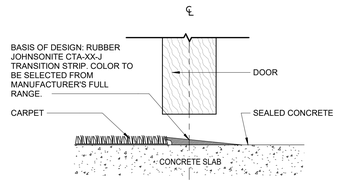
2 TILE TO TILE
6" = 1'-0"



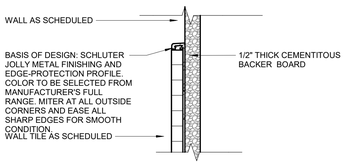
3 CARPET TO TILE
6" = 1'-0"



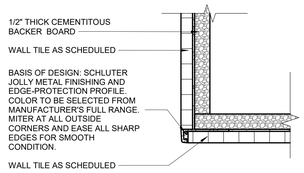
4 CARPET TO RESILIENT
6" = 1'-0"



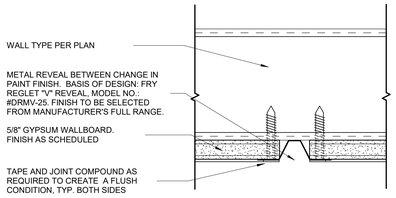
5 CARPET TO SEALED CONCRETE
6" = 1'-0"



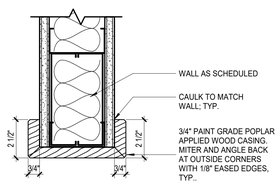
6 WALL TILE WAINSCOT (JOLLY)
6" = 1'-0"



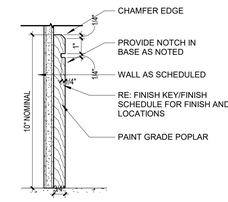
7 WALL TILE OUTSIDE CORNER (JOLLY)
6" = 1'-0"



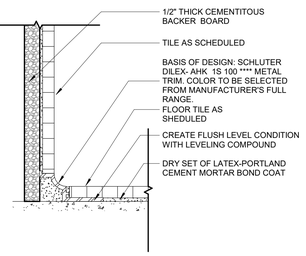
8 METAL REVEAL - PAINT CHANGE
6" = 1'-0"



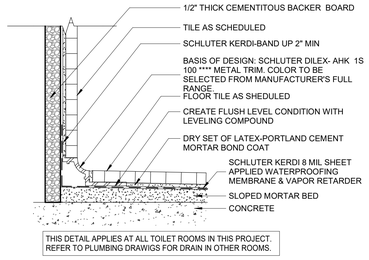
9 WOOD TRIM (WD-1)
3" = 1'-0"



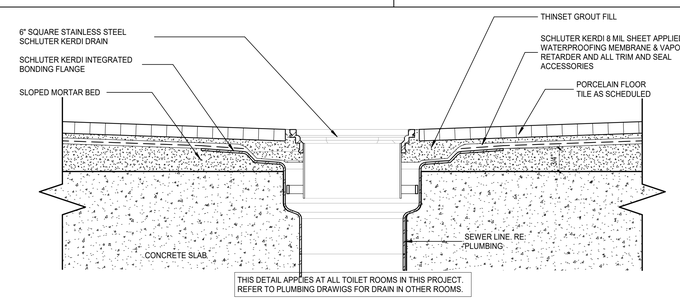
10 WOOD BASE (WB-1)
3" = 1'-0"



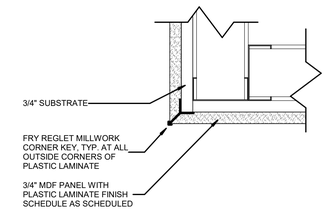
11 FLOOR TILE TO WALL TILE
6" = 1'-0"



12 FLOOR TILE TO WALL TILE AT RESTROOMS
6" = 1'-0"



13 SCHLUTER KERDI DRAIN & WATER PROOFING MEMBRANE
6" = 1'-0"



14 PLAM CORNER KEY, TYP.
3" = 1'-0"

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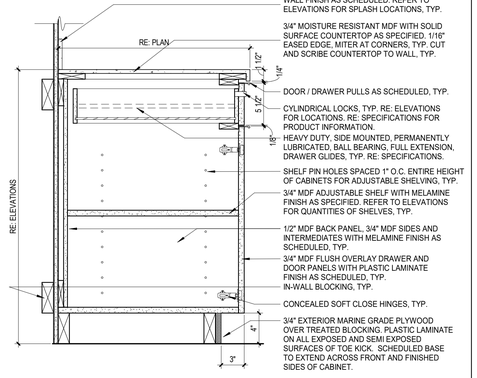
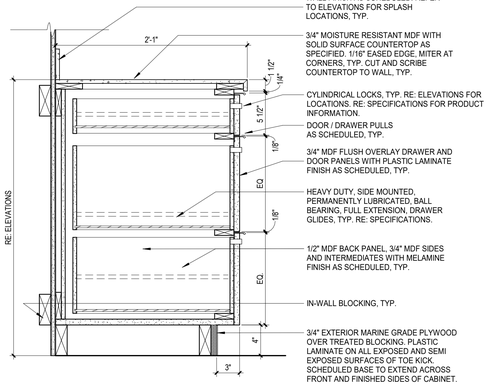
INTERIOR TRANSITION DETAILS

SHEET NUMBER

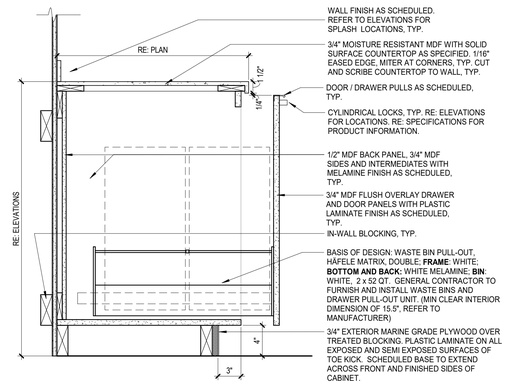
ID301



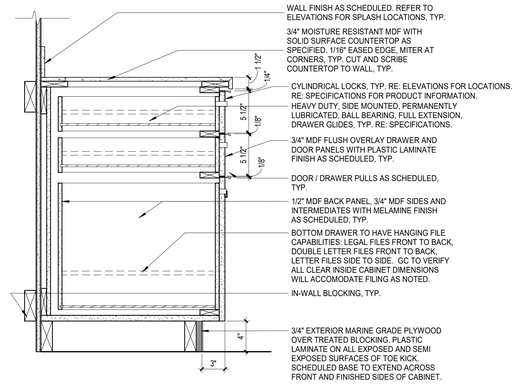
1 BASE CAB - SSM TOP - DRAWER & DOOR
1 1/2" = 1'-0"



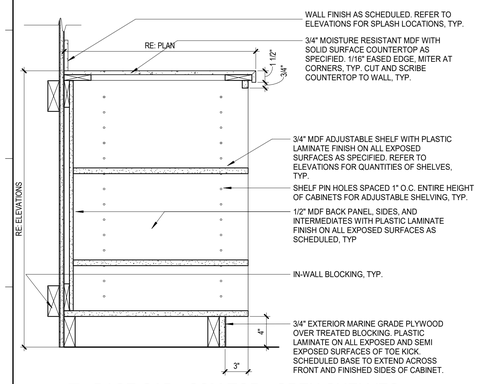
2 BASE CAB - SSM TOP - 3 DRAWERS
1 1/2" = 1'-0"



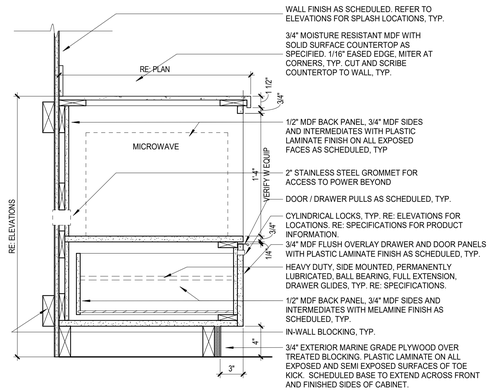
3 BASE CAB - SSM TOP - PULL OUT TRASH DOUBLE
1 1/2" = 1'-0"



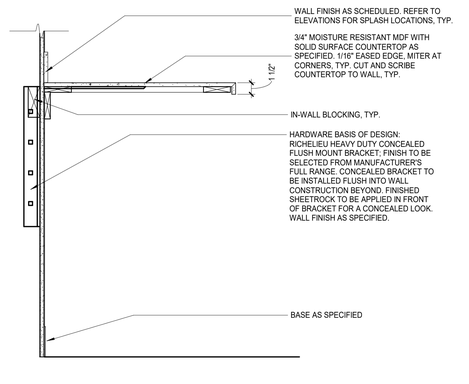
4 BASE CAB - SSM TOP - BOX BOX FILE
1 1/2" = 1'-0"



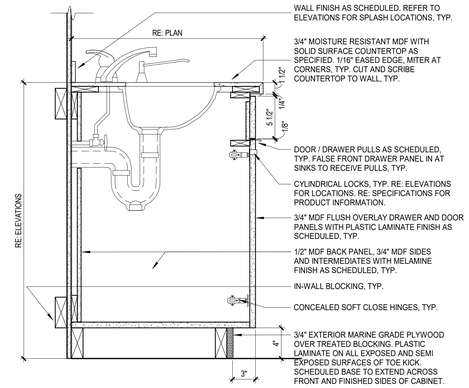
5 BASE CAB - SSM TOP - OPEN SHELVES
1 1/2" = 1'-0"



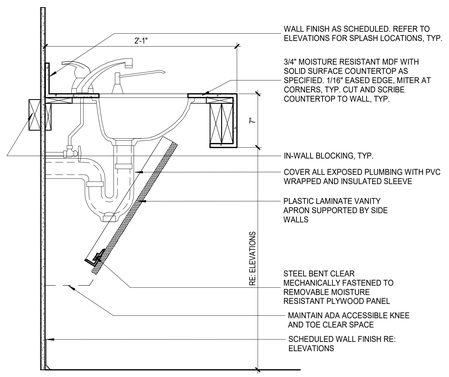
6 BASE CAB - SSM TOP - UC MICROWAVE & DRAWER
1 1/2" = 1'-0"



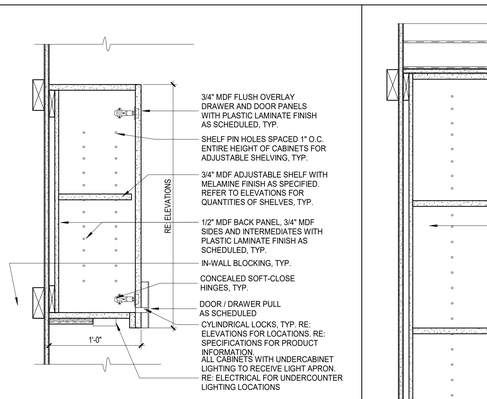
7 BASE CAB - SSM TOP - CONCEALED BRACKET
1 1/2" = 1'-0"



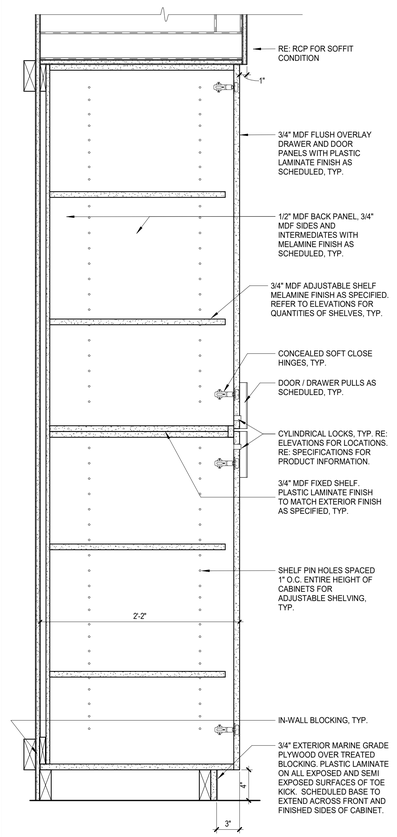
8 BASE CAB - SSM TOP - SINK 1-1/2" EDGE CAB BELOW
1 1/2" = 1'-0"



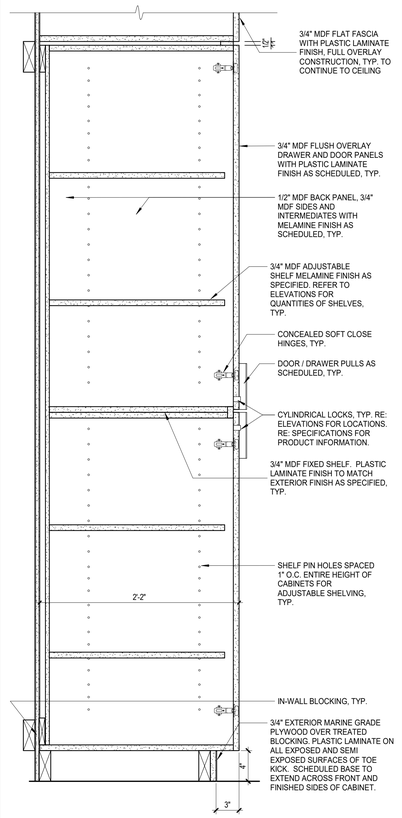
9 BASE CAB - SSM TOP - SINK 7" EDGE PLAM APRON
1 1/2" = 1'-0"



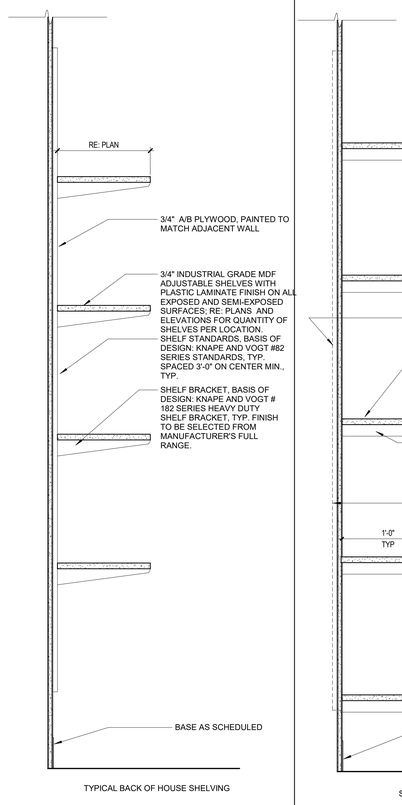
10 UPPER CAB - DOOR (OPEN ABOVE)
1 1/2" = 1'-0"



13 TOWER - 2 DOORS (SOFFIT)
1 1/2" = 1'-0"

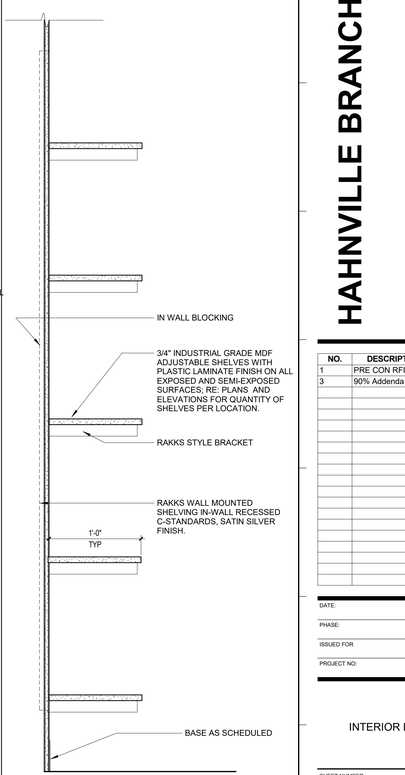


14 TOWER - 2 DOORS (FASCIA)
1 1/2" = 1'-0"



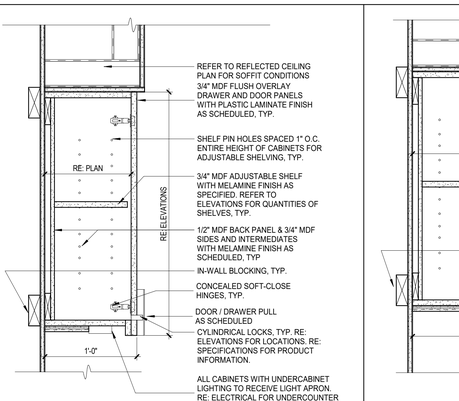
TYPICAL BACK OF HOUSE SHELVING

15 ADJUST. PLAM SHELVES
1 1/2" = 1'-0"

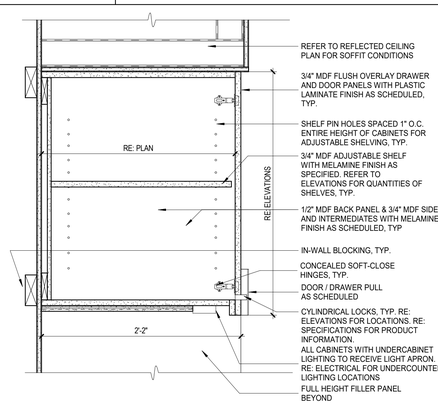


SHELVING AT NEW RELEASE AREAS

16 ADJUST. PLAM SHELVES 2
1 1/2" = 1'-0"



11 UPPER CAB - DOOR (SOFFIT)
1 1/2" = 1'-0"



12 UPPER CAB - DOOR ABOVE FRIDGE (SOFFIT)
1 1/2" = 1'-0"

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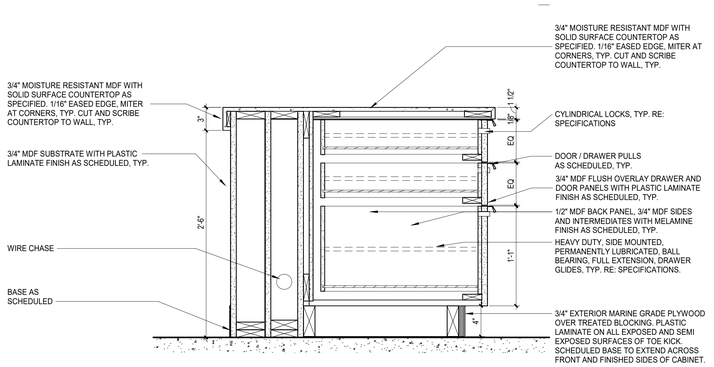
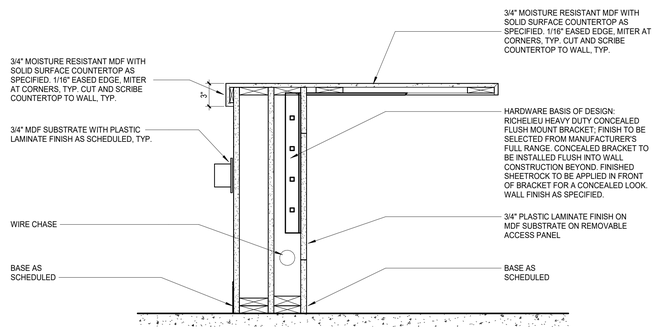
DATE: 04.17.26
PHASE: 100% CD
ISSUED FOR: PRICING
PROJECT NO: 4024101

INTERIOR DETAILS

SHEET NUMBER
ID302



1 CIRCULATION DESK - ADA 3 DRAWER
1 1/2" = 1'-0"



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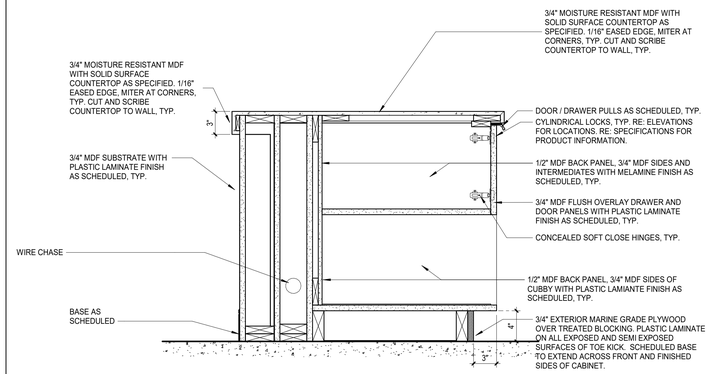
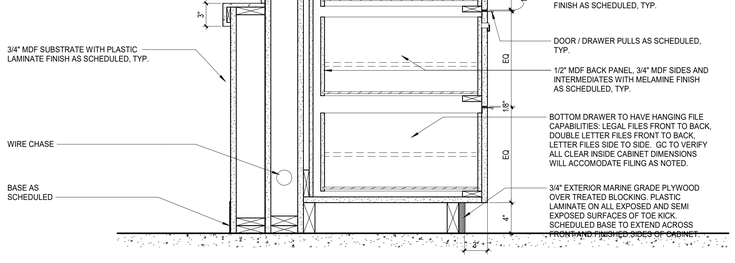
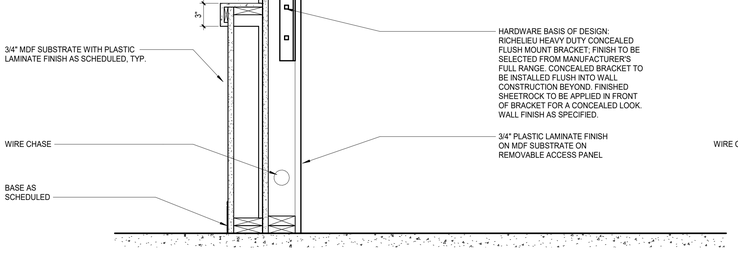
1 1/2" = 1'-0"



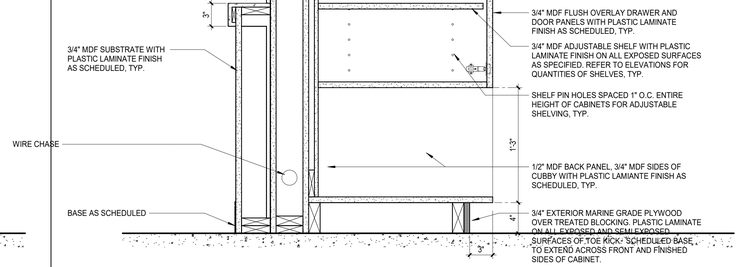
3 CIRCULATION DESK - ADA DOOR & CUBBY
1 1/2" = 1'-0"



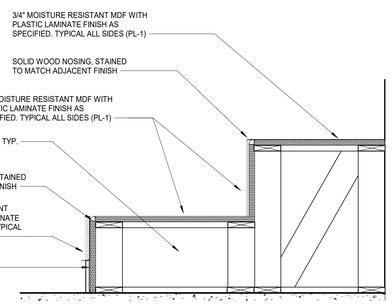
4 CIRCULATION DESK - TRANSACTION 4 DRAWER
1 1/2" = 1'-0"



5 CIRCULATION DESK - TRANSACTION KNEE SPACE
1 1/2" = 1'-0"



6 CIRCULATION DESK - TRANSACTION DOOR & CUBBY
1 1/2" = 1'-0"



7 CHILDRENS BUILT IN BENCH
1 1/2" = 1'-0"

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PROJECT NO: 4024101

INTERIOR DETAILS

SHEET NUMBER
ID303

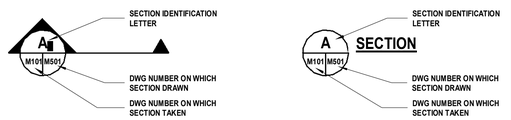
PIPING SYMBOLS

BBO	BOILER BLOW-OFF
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
G	NATURAL GAS
F	F & T TRAP
B	BUCKET TRAP
T	THERMOSTATIC TRAP
CCA	CONTROL COMPRESSED AIR
RL	REFRIGERANT LIQUID
RD	REFRIGERANT DISCHARGE
RS	REFRIGERANT SUCTION
RV	REFRIGERANT VENT
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
PCHS	PRIMARY CHILLED WATER SUPPLY
PCHR	PRIMARY CHILLED WATER RETURN
SCHS	SECONDARY CHILLED WATER SUPPLY
SCHR	SECONDARY CHILLED WATER RETURN
CDWS	CONDENSER WATER SUPPLY
CDWR	CONDENSER WATER RETURN
	BALANCE VALVE
	CHECK VALVE
	SHUT-OFF VALVE NORMALLY OPEN
	GLOBE VALVE
	GATE VALVE
	BUTTERFLY VALVE
	FLOAT OPERATED VALVE
	MOTOR OPERATED VALVE
	PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	ANGLE VALVE
T&P	TEMP. & PRESS. RELIEF VALVE
P	PRESS. RELIEF VALVE
	PLUG VALVE
	VALVE IN VERTICAL LINE
	ANCHOR
	THERMOMETER
	THERMOMETER WALL
	PRESSURE GAUGE WITH GAUGE COCK
	SIGHT GLASS
AAV	AUTOMATIC AIR VENT
MAV	MANUAL AIR VALVE
	STRAINER
T1	TEMPERATURE POINT
	ELBOW - 90 DEG.
	ELBOW - 45 DEG.
	ELBOW - TURNED UP
	ELBOW - TURNED DOWN
R	PIPE RISER
S	PIPE SLOPE DOWN
	CROSS
	LATERAL
	TEE
	TEE - OUTLET UP
	TEE - OUTLET DOWN
	EXPANSION JOINT
	CAP
	PLUG
	UNION
	BUTTERFLY VALVE
	GAUGE COCK
	VENTURI FLOW MEASUREMENT DEVICE
	AIR PRESSURE SWITCHED
	BALL VALVE
NC	SHUT-OFF VALVE NORMALLY CLOSED
	PIPE GUIDE
	DIRECTION OF FLOW
	FLEXIBLE PIPE CONNECTIONS
PT	PRESSURE / TEMPERATURE
FSD	COMBINED FIRE SMOKE DAMPER

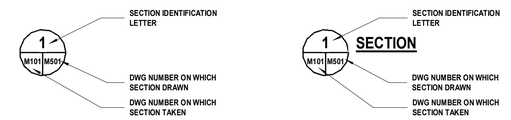
HVAC SYMBOLS

	DUCT UNDER POSITIVE PRESSURE
	DUCT UNDER NEGATIVE PRESSURE
	NEW DUCTWORK
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	RECTANGULAR DUCT 90 DEG ELBOW
	ELBOW WITH TURING VANES
	RECTANGULAR DUCT 45 DEG
	ELBOW LESS TURING VANES
	RECTANGULAR DUCT TRANSITION
	1 SIDES SLOPED
	RECTANGULAR DUCT TRANSITION
	2 SIDES SLOPED
	DUCT WITH FLEXIBLE CONNECTION
	RECTANGULAR DUCT TEE
	WITH SPLITTER DAMPER
	AND TURING VANES
	MAIN DUCT
	BRANCH DUCT
	DUCT RISE
	DUCT DROP
MD	DUCT WITH MANUAL DAMPER
FD	DUCT WITH FIRE DAMPER
SD	DUCT WITH SMOKE DAMPER
	DUCT WITH SMOKE DETECTOR
AD	DUCT WITH ACCESS DOOR
	RECTANGULAR DUCT TO ROUND DUCT
	ROUND DUCTWORK
	ROUND DUCT WITH ELBOW
	ROUND DUCT UP
	ROUND DUCT DOWN
	MAIN DUCT
	SPIN-IN FITTING
	BRANCH DUCT
	RETURN OR EXHAUST GRILLE OR REGISTER
300	DIFFUSER SEE SCHEDULE FOR SIZE 4-WAY
300	DIFFUSER SEE SCHEDULE FOR SIZE 1-WAY
300	DIFFUSER SEE SCHEDULE FOR SIZE 2-WAY
300	DIFFUSER SEE SCHEDULE FOR SIZE 3-WAY
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR (T-STAT)
P	PRESSURE SENSOR
M	MOTORIZED CONTROL DAMPER (MCD) (LOW LEAKAGE)
BDD	MOTORIZED BACK DRAFT DAMPER (LOW LEAKAGE)
U/C	UNDER CUT DOOR MIN. 1/2"
	TIE-IN / POINT OF CONNECTION

DETAIL CROSS REFERENCES



SECTION SYMBOL



DETAIL SYMBOL

DESIGN INDOOR TEMPERATURE CRITERIA

SPACE	HEATING (DB)	COOLING (DB)
OFFICES / LOBBIES / CONFERENCE ROOMS	68°F +/-2°F	72°F +/-2°F
ADULT SERV / COLLECTIONS / LIBRARY STACKS	70°F +/-2°F	72°F +/-2°F
ELECTRICAL ROOM / IT ROOM / SPRINKLER RUN	70°F +/-5°F	70°F +/-5°F

DESIGN OUTDOOR TEMPERATURE CRITERIA

	HEATING 99.6%	COOLING 1%
2021 ASHRAE FUNDAMENTALS CLIMATIC DESIGN CONDITIONS NEW ORLEANS INTL STATION	DB 30.6°F	DB / WB 92.8°F / 77.7°F
BASIS OF DESIGN CONDITIONS	DB 25°F	DB / WB 93°F / 81°F

1. SUMMER TIME INDOOR DESIGN RELATIVE HUMIDITY (RH) SET-POINT SHALL BE 50% AND SHALL NOT EXCEED 60% AS LONG AS THE ENTIRE CENTRAL PLANT EQUIPMENT IS OPERATING PROPERLY AND BASED UPON "TIGHT" BUILDING ENVELOPE LEAKAGE RATE AS DEFINED BY THE ASHRAE HANDBOOK - FUNDAMENTALS.
2. WINTER TIME INDOOR DESIGN RELATIVE HUMIDITY (RH) SHALL VARY WITH THE WINTER TIME OUTDOOR CONDITIONS AND BASED UPON "TIGHT" BUILDING ENVELOPE LEAKAGE RATE AS DEFINED BY THE ASHRAE HANDBOOK - FUNDAMENTALS. THIS WILL VARY BETWEEN 10% AND 60% RH.
3. WINTER DESIGN RH SHALL BE BASED UPON OUTSIDE AMBIENT CONDITIONS.
4. WINTER TIME INDOOR SPACE TEMPERATURE SHALL NOT DROP BELOW 40°F AT ANY TIME FOR THE PURPOSE OF PROTECTING SPRINKLER SYSTEM (PIPING).
5. VENTILATION DESIGN SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE 2021 INTERNATIONAL MECHANICAL CODE, TABLE 403.3.1.1.
6. ENERGY CONSERVATION SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.

AIR BALANCE SCHEDULE

EXHAUST (CFM)		OUTSIDE AIR (CFM)	
EF-1	350	AHU-1	1660
EF-2	100	AHU-2	930
EF-3	100		
EF-4	100		
TOTAL EXH.	650	TOTAL OA	2590
TOTAL OFFSET		+1940	

ABBREVIATIONS

ABV	ABOVE
ACC	AIR COOLED CHILLER
AD	AIR DEVICE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AHU	AIR HANDLING UNIT
AAV	AUTOMATIC AIR VENT
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CLG	CEILING
CONC	CONCRETE
CDS	CONDENSER WATER SUPPLY
CDR	CONDENSER WATER RETURN
CONT	CONTINUATION
dB	DECIBEL
DG	DOOR GRILLE
DN	DOWN
DWG	DRAWING
EA	EACH
E.A.	EXHAUST AIR
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
ELEC	ELECTRICAL
ESP	EXTERNAL (OF UNIT) STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FILTER
FA	FREE AREA (IN SQUARE FEET)
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FPB	FAN POWER BOX
FSD	COMBINATION FIRE AND SMOKE DAMPER
FH	FEET HEAD
FT	FEET
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KW	KILOWATT
LAT	LATENT
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MER	MECHANICAL EQUIPMENT ROOM
MFG	MANUFACTURER
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR

GENERAL NOTES:

1. CONTRACTOR SHALL FOLLOW ALL CURRENTLY ADOPTED STATE AND LOCAL CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: 2021 INTERNATIONAL MECHANICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE, 2021 INTERNATIONAL PLUMBING CODE, NFPA, ADOPTED CODE AMENDMENTS, LIFE SAFETY CODE, ASHRAE, SMACNA, UL, ETC.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE HVAC SYSTEMS WITH ALL TRADES INCLUDING OWNER PROVIDED IT SYSTEMS (I.E., CABLE ROUTING AND SUPPORT SYSTEMS). COORDINATED SHOP DRAWINGS SHALL BE PROVIDED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
3. GENERAL MECHANICAL NOTES ARE TYPICAL FOR ALL DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS. REFER TO INDIVIDUAL DRAWINGS FOR ANY SPECIFIC NOTES.
4. MECHANICAL LAYOUTS ARE DIAGRAMMATICAL ONLY. EXACT LOCATIONS OF DUCTS, PIPES, AND EQUIPMENT SHALL BE GOVERNED BY THE DRAWINGS OF RELATED TRADES. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL SYSTEMS INCLUDING ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL TO MINIMIZE HVAC DUCTWORK AND PIPING OFFSETS.
5. UNLESS OTHERWISE NOTED, DUCTWORK DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS ARE INSIDE CLEAR.
6. IF NO SIZE IS SHOWN FOR DUCT SERVING DIFFUSER OR TERMINAL BOX, REFER TO DIFFUSER AND GRILLE SCHEDULE FOR BRANCH DUCT SIZE.
7. SIZE DUCT RUNOUTS BY THESE SCHEDULES UNLESS NOTED OTHERWISE ON PLANS.
8. PROVIDE FLANGED TYPE CEILING OUTLETS IN SPACES WITH DRYWALL, PLASTER, HARD CEILINGS, OR NON-LAY-IN GRID TYPE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
9. INSTALL TRANSITION PIECES FROM SUPPLY OUTLET OF EQUIPMENT TO DUCT SIZE INDICATED ON PLANS. CONSULT EQUIPMENT MANUFACTURER FOR OUTLET SIZE.
10. ALL DUCT ELBOWS, BENDS AND TEES SHALL BE PROVIDED WITH SINGLE THICKNESS TURNING VANES.
11. PROVIDE INTEGRAL OPPOSED BLADE VOLUME DAMPERS (OBD) FOR DIFFUSERS MOUNTED IN INACCESSIBLE CEILINGS (FOR AIR BALANCE). DO NOT INSTALL OBD'S FOR DIFFUSERS MOUNTED IN LAY-IN TYPE CEILINGS. PROVIDE REMOTE CONTROL BALANCING DAMPER WHERE DAMPERS ARE INACCESSIBLE (SHEET ROCK, CEILING, ETC.).
12. PROVIDE AND INSTALL MANUAL VOLUME DAMPERS IN THE BRANCH DUCTS SERVING ALL LAY-IN & SURFACE MOUNT DIFFUSERS GRILLES AND REGISTERS FOR AIR BALANCE.
13. PROVIDE FLEX DUCT CONNECTIONS UPSTREAM AND DOWNSTREAM OF ALL AIR HANDLING ROTATING EQUIPMENT THAT IS NOT INTERNALLY ISOLATED. REFER TO EQUIPMENT MANUFACTURER INSTALLATION RECOMMENDATIONS.
14. PROVIDE SOLID NEOPRENE ISOLATORS FOR ALL EQUIPMENT. CORK PAD IS NOT ALLOWED UNLESS UNIT IS INTERNALLY ISOLATED.
15. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.
16. REFER TO HVAC SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
17. REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR COORDINATION WITH MECHANICAL DRAWINGS.
18. EQUIPMENT INSTALLATION AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG EQUIPMENT MANUFACTURERS. CONTRACTOR SHALL COORDINATE EQUIPMENT INSTALLATION AND SERVICE CLEARANCES BASED ON APPROVED EQUIPMENT SUBMITTAL DATA.
19. DO NOT BLOCK TUBE PULL, FILTER PULL, COIL PULL, VAV TERMINAL UNIT CONTROL BOX, SAFETY OR SERVICE CLEARANCE SPACE ON EQUIPMENT WITH PIPING, DUCTWORK, VALVES, ETC. FLANGED OR REMOVABLE SECTIONS MAY BE USED IN SOME INSTANCES WHERE TIGHT CLEARANCES EXIST (VERIFY WITH ARCHITECT IN SUCH CASES).
20. SEAL ALL WALLS, ROOF, AND FLOOR PENETRATIONS SMOKE TIGHT AS REQUIRED.
21. PROVIDE ESCUTCHEONS AT ALL EXPOSED LOCATIONS WHERE PIPE PENETRATES WALL.
22. SEE DETAILS ON SHEETS FOR BRANCH TAKE-OFF REQUIREMENTS FOR LOW PRESSURE SUPPLY AND RETURN TAPS (SHOWN ON DRAWINGS AS SINGLE LINE BRANCH TAKE-OFFS FROM MAIN) AND BRANCH RUNOUT TO TERMINAL BOX.
23. WHERE CONCEALED BY INACCESSIBLE FINISHES, PROVIDE ACCESS DOORS TO ALL VAV TERMINAL UNITS, VALVES, DUCT STATIC PRESSURE SENSORS, MANUAL VOLUME DAMPERS, FIRE DAMPERS, FIRE/SMOKE CONTROLS, AIR VENTS, DRAIN CONNECTIONS & ALL OTHER ITEMS REQUIRING PERIODIC MAINTENANCE. OPERATION OR ADJUSTMENT. ACCESS DOORS ARE TO BE SIZED & LOCATED FOR EASY PERFORMANCE OF THE FUNCTION INTENDED. COORDINATE LOCATION OF ACCESS DOORS WITH ALL TRADES AFFECTED. ACCESS DOORS FOR WALLS, CEILINGS AND FLOORS, BOTH STANDARD AND FIRE RATED ARE SPECIFIED IN DIVISION 8 SPECIFICATIONS.
24. ALL ACCESS DOORS SHALL BE PROVIDED WITH 1"x3" TAG DESCRIBING EQUIPMENT CONCEALED.
25. ALL FIRE DAMPERS SHALL BE DYNAMIC "B" TYPE, PROVIDE FACTORY SLEEVE AND BREAKAWAY CONNECTION.
26. UNLESS OTHERWISE NOTED, SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK CONSTRUCTION CLASS SHALL BE ±3 IN. W.G. SHEET METAL SHALL BE G-90 LQF OR PRIOR APPROVED EQUAL. ALL GREASE, CONDENSATE EXHAUST AND LAUNDRY EXHAUST DUCTWORK SHALL BE 18 GA. WELDED STAINLESS STEEL.
27. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL EMPLOY AN INDEPENDENT TAB COMPANY TO TEST AND BALANCE ALL AIR AND WATER SYSTEMS. REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL TEST AND BALANCE REQUIREMENTS.
28. SEAL ALL DUCT SEAMS, JOINTS AND CONNECTIONS, INCLUDING PITTBURGHS, WITH HARDCAST DUCT-SEAL 321 OR PRIOR APPROVED EQUAL.
29. EXTERNALLY INSULATE SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK WITH 2.2" R-6 FOIL FACED INSULATION. FLEXIBLE DUCTS SHALL BE MIN. R-6 INSULATION. R-VALUE REFERS TO THE INSTALLED THICKNESS. ALL DUCT INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
30. FLEXIBLE DUCTS SHALL BE USED ONLY FOR BRANCH "RUNOUTS" (MAX. 6 FT.) AND FOR INLETS FOR VAV TERMINAL UNITS (MAX. 3 FT.). THERMAFLEX G-KM OR ATCO 30 SERIES. PROVIDE INDIVIDUAL BANDS FOR BOTH INNER LINER AND OUTER LINER.
31. FOR DOMESTIC HOT AND COLD PIPING PROVIDE FACTORY-FORMED, FIBERGLASS PIPE INSULATED FACTORY-JACKETED OWENS-CORNING 25 ASJ HEAVY DENSITY OR KNAUF EARTHWOOL 1000, ONE-PIECE, DUAL TEMPERATURE, PREMOLDED INSULATION. INSULATE ALL VALVES, FITTINGS AND FLANGES WITH 3-POUND DENSITY FIBERGLASS INSULATION TO A THICKNESS EQUAL TO THE ADJACENT PIPING INSULATION AND COVERED WITH PREMOLDED 25/50 RATED PVC FITTING, VAPOR SEALED WITH CHILDERS CP-30 VAPOR BARRIER MASTIC OR FOSTER 30-90 VAPOR-SAFE MASTIC. INSULATION SHALL BE 1" THICK.
32. CHILLED WATER PIPING, VALVES AND FITTINGS SHALL BE INSULATED WITH CELLULAR GLASS, ASTM C552, TYPE II, CLASS 2. NO SUBSTITUTES WILL BE CONSIDERED. INSULATION SHALL BE A MINIMUM OF 1.5 INCHES THICK FOR PIPING 2 INCHES AND SMALLER, 2 INCHES THICK FOR PIPE SIZES 2.5 INCHES TO 4 INCHES, AND 3 INCHES THICK FOR PIPING 6 INCHES AND LARGER. PROVIDE A FACTORY-APPLIED, ALL-PURPOSE JACKET. COVER ALL CHILLED WATER PIPE INSULATED PIPE, VALVES, FITTINGS AND ALL MISCELLANEOUS DEVICES WITH 0.030" THICK PVC JACKET AND PRE-MOLDED PVC FITTINGS SECURED PER MANUFACTURER'S RECOMMENDATIONS.
33. EQUIPMENT SHALL HAVE A METAL NAMEPLATE BEARING THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER SECURELY AFFIXED IN AN ACCESSIBLE LOCATION, THE NAMEPLATE OF THE LOCAL EQUIPMENT DISTRIBUTOR WILL NOT BE ACCEPTABLE. PROVIDE LABELS FOR FILTER SECTIONS THAT INCLUDE FILTER SIZES, QUANTITIES AND MINIMUM EFFICIENCY INFORMATION.
34. ALL EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS AND SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT IN THE AREA WHERE WORK IS DONE.
35. ALL FLOOR MOUNTED EQUIPMENT SHALL HAVE MIN. 4" HIGH HOUSEKEEPING PADS. HOUSEKEEPING PADS SHALL EXTEND A MINIMUM OF 2 INCHES BEYOND EQUIPMENT FOOTPRINT.
36. ALL PIPES PENETRATING CONCRETE/MASONRY WALLS, FLOORS AND CEILING/ROOFS SHALL HAVE SCHEDULE 40 STEEL SLEEVES. SLEEVES SHALL BE LARGE ENOUGH TO ACCOMMODATE ALL PIPING INSULATION THICKNESS.
37. ALL MOTORIZED VOLUME DAMPERS SHALL BE RUSKIN CD50, GREENHECK VCD 23 OR PRIOR APPROVED EQUAL. PROVIDE ALL JAMB AND BLADES SEALS.
38. AIR HANDLING UNIT DISCHARGE AND RETURN AIR OPENINGS SHALL BE CLEAR OF ANY OBSTRUCTIONS DUE TO LINED DUCT INSULATION OR FLANGE CONNECTIONS TO AVOID RESTRICTIONS TO THE FREE FLOW OF AIR FROM THE FAN.
39. INSTALL HIGH POINT MANUAL AIR VENTS FOR ALL CHILLED AND HEATING HOT WATER PIPING SYSTEMS, AS REQUIRED, TO FACILITATE MANUAL AIR VENTING.
40. DUCTWORK AND PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL PANELS OR THROUGH ELECTRICAL ROOMS. WHERE HYDRONIC PIPING AND ELECTRICAL CONDUIT ARE LOCATED ON TOP OF EACH OTHER, THE ELECTRICAL CONDUIT SHALL ALWAYS BE LOCATED ON TOP OF THE HYDRONIC PIPING.
41. PROVIDE FULL SIZE CONDENSATE LINE TO FLOOR/HUB DRAIN. ELEVATE UNIT TO ACCOMMODATE P-TRAP. PIPE SHALL NOT POSE A TRIPPING HAZARD.
42. PROVIDE 18 GA. S.S. ALL WELDED EMERGENCY DRAIN PAN FOR ALL AIR HANDLING UNITS, BLOWER COIL UNITS, ETC. SIDES SHALL BE MIN. 2" WITH 1/2" HEMM. PAN SHALL EXTEND 6" BEYOND ALL SIDES OF UNIT AND COIL PIPING CONNECTIONS. PROVIDE MIN. 1" CONDENSATE LINE TO FLOOR DRAIN. PIPE SHALL NOT POSE A TRIPPING HAZARD.
43. ALL VENDOR FURNISHED CONTROLS SHALL BE INSTALLED, WIRED & ADJUSTED BY THE CONTROLS CONTRACTOR.
44. ALL EQUIPMENT AND DEVICES SHALL BE FURNISHED AND INSTALLED AS REQUIRED BY THE CONTRACT DRAWINGS, SPECIFICATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.
45. ALL SAFETY RELIEF VENT SIZING REQUIREMENTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER. CONTRACTOR SHALL SUBMIT CALCULATIONS FOR ALL SYSTEMS AND/OR EQUIPMENT REQUIRING SAFETY RELIEF VENTS, INCLUDING BUT NOT LIMITED TO CHILLER, BOILER, PRESSURE TANKS, ETC...
46. UNLESS OTHERWISE NOTED, ALL FLOOR MOUNTED ROTATING EQUIPMENT THAT IS NOT INTERNALLY ISOLATED INCLUDING, BUT NOT LIMITED TO, CENTRIFUGAL PUMPS, AIR COMPRESSORS, CHILLERS, ETC. SHALL BE MOUNTED ON A CONCRETE FILLED ISOLATION/BASE RAIL WITH INBOARD SPRINGS WITH A MINIMUM OF 2" DEFLECTION.
47. ROUND DUCT FOR SUPPLY AIR, RETURN AIR, OUTSIDE AIR, EXHAUST AND COMBUSTION AIR INTAKE SHALL BE SPIRAL DUCT. GREASE AND LAUNDRY DRYER EXHAUST DUCT SHALL BE EXCLUDED FROM THIS REQUIREMENT.
48. ALL EQUIPMENT SHALL HAVE LOW POINT DRAINS AS REQUIRED BY THE MANUFACTURES INSTALLATION INSTRUCTIONS.
49. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND EQUIPMENT SUBMITTALS TO THE ARCHITECT FOR REVIEW PRIOR TO ANY FABRICATION OR EQUIPMENT/MATERIAL ORDER. SUBMITTING SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL IMPLIES THAT FULL COORDINATION WITH OTHER TRADES AND OPERATIONS HAS BEEN CONDUCTED BY THE CONTRACTOR. THIS COORDINATION PROCESS SHALL BE INCLUDED IN THE PROJECT CONSTRUCTION SCHEDULE TO AVOID DELAYS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY UNOBSERVED ISSUES BY THE ENGINEER'S REVIEW.
50. CONTRACTOR SHALL PROVIDE REQUIRED EQUIPMENT SERVICE CLEARANCES AS RECOMMENDED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE APPLICABLE CODES. THE CONTRACTOR SHALL INFORM THE ARCHITECT IF THE DESIGN DOES NOT ALLOW FOR PROVIDING THE REQUIRED CLEARANCES.
51. BUILDING MANAGEMENT SYSTEM SHALL BE NETWORK BASED.
52. INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE.
53. CONTRACTOR SHALL MAINTAIN ALL HVAC SYSTEMS CLEAN DURING CONSTRUCTION USING INDUSTRY STANDARD METHODS. EQUIPMENT, DUCTWORK, PIPING, CONTROLS AND ASSOCIATED ACCESSORIES THAT ARE ALLOWED TO GET DIRTY OR DAMAGED WITH CONSTRUCTION DEBRIS SHALL BE CLEANED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
54. ALL PIPE, DUCT, CONDUIT, EQUIPMENT, ETC.,... THAT IS ANCHORED AND/OR SUSPENDED FROM A CONCRETE SLAB SHALL USE CAST IN PLACE INSERTS. PROVIDE ALL NECESSARY BRACKETS, PLATE, HARDWARE ETC.,. CONTRACTOR SHALL USE SONAR AND/OR X-RAY SCANNING IF ANY INSERTS ARE TO BE INSTALLED AFTER THE CONCRETE SLAB IS POURED. REFER TO DIVISION 15 AND COORDINATE WITH ALL TRADES.
55. COORDINATE DUCT AND PIPING ROUTING WITH WALL FRAMING. WALL FRAMING MAY REQUIRE ADDITIONAL STRUCTURAL SUPPORTS TO ALLOW DUCTWORK/PIPING ROUTING. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS.
56. ALL GENERAL EXHAUST MANUAL BALANCING DAMPERS SHALL BE LOW LEAKAGE TYPE. NAILOR MODEL 1090 OR APPROVED EQUAL.
57. DRYER VENT DUCT SHALL BE 16GA S.S. WELDED. PROVIDE TEE WITH ACCESS AT BASE.
58. ALL BOILER FLUE VENT SHALL BE DOUBLE WALL AL-29-4C CATEGORY 4 VENTING.
59. PROVIDE DUCT ACCESS PANELS FOR ALL FIRE/SMOKE DAMPERS, FIRE DAMPERS, ETC. COORDINATE LOCATION WITH ARCHITECTURAL.
60. VAV'S SHALL BE WITHIN 24" FROM CEILINGS ACCESS.
61. COORDINATE WITH ARCHITECTURAL CEILING PLAN FOR CEILING SYSTEM AND LOCATION ALL GRILLES AND DIFFUSERS. INSULATE AND SEAL THE BACK OF GRILLES TO PREVENT CONDENSATION. PROVIDE 10"MIN. HEIGHT FOR THE PLENUM, TRANSITION OR TAP OF ANY GRILLED CONNECTION.
62. OWNER WILL FURNISH AND INSTALL THE FOLLOWING SYSTEMS, INCLUDING THE RACEWAY AND ROUGH-INS: TELECOMMUNICATIONS, ACCESS CONTROL, AND CCTV. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROVIDE PROPER PATHWAY DESIGNATIONS AND SPACING BETWEEN TRADES PER THE OWNER'S STANDARDS AND SPECIFICATIONS.

THIS IS A TYPICAL SHEET, ALL ABBREVIATIONS, SYMBOLS AND NOTES ARE NOT NECESSARILY IN USE ON THIS PROJECT.

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AIR-COOLED SCROLL CHILLER SCHEDULE

UNIT TAG NO.	PERFORMANCE RATING (@ AHRI)				COMPRESSOR				EVAPORATOR PERFORMANCE (@ DESIGN)				ELECTRICAL PERFORMANCE (@ DESIGN)					UNIT SIZE (IN.)			OPERATING WEIGHT (LBS.)	BASIS OF DESIGN	
	CAPACITY (TON)	IPLV	EER	NOMINAL FULL LOAD EFFICIENCY (KW/TON)	TYPE	QTY.	REFRIGERANT TYPE	MIN. AMB. TEMP. (°F)	DESIGN FLOWRATE (GPM)	EWT (°F)	LWT (°F)	MAX. FLUID PRESS. DROP (FT. W.G.)	UNIT INPUT POWER (KW)	VOLTAGE (V)	PH.	HZ.	MCA (A)	MOCP (A)	L	W	H		MANUFACTURER	MODEL
ACCH-1	45	17.59	11.16	1.08	SCROLL	4	R454B	100	92	54	42	5.54	54.0	208	3	60	235.0	250.0	102.0	89.0	95.0	3,854	YORK	YLAA0048HJ17XCB
ACCH-2	45	17.59	11.16	1.08	SCROLL	4	R454B	100	92	54	42	5.54	54.0	208	3	60	235.0	250.0	102.0	89.0	95.0	3,854	YORK	YLAA0048HJ17XCB

NOTES:

1. AIR COOLED CHILLERS SHALL BE AS MANUFACTURED BY YORK, TRANE, DAIKIN, CARRIER, OR PRIOR APPROVED EQUIVALENT.
2. PROVIDE WITH FACTORY HEAD PRESSURE CONTROL FOR OPERATION TO 0°F OUTSIDE AIR TEMPERATURE.
3. PROVIDE SINGLE POINT POWER DISCONNECT SWITCH AND CIRCUIT PROTECTION.
4. PROVIDE WITH SHELL AND TUBE OR BRAZED-PLATE EVAPORATOR HEAT EXCHANGERS. PRESSURE DROP SHALL NOT EXCEED 20 FT. W.G. AT DESIGN FLOW.
5. PROVIDE FLOW SWITCH. COORDINATE MINIMUM FLOW RATE WITH CHILLER MANUFACTURER.
6. FACTORY START UP SHALL BE INCLUDED.
7. PROVIDE BAS SYSTEM INTERFACE (INCLUDE HARDWARE FOR BACNET COMMUNICATION PROTOCOLS).
8. PROVIDE CONTROLS FOR LEAD-LAG OPERATION BASED ON RUN-TIME SCHEDULE. COORDINATE WITH BAS CONTROLS.
9. PROVIDE FREEZE PROTECTION COMPONENTS, ACCESSORIES AND CONTROLS.
10. PROVIDE ARCHITECTURAL LOUVERED PANELS.
11. PROVIDE FAN AND COMPRESSOR SOUND ATTENUATION OPTIONS PACKAGE.
12. PROVIDE COATED COILS FOR CORROSION PROTECTION.
13. PROVIDE ELASTOMERIC VIBRATION ISOLATION PADS.
14. PROVIDE FACTORY-INSTALLED 115V GFI (GROUND FAULT INTERRUPT) CONVENIENCE OUTLET.
15. OVERALL EQUIPMENT EFFICIENCY SHALL BE AT LEAST 10% HIGHER THAN THE MINIMUM ENERGY EFFICIENCY LISTED BY THE CURRENTLY ADOPTED INTERNATIONAL ENERGY CONSERVATION CODE IN ACCORDANCE WITH AHRI 550/590 TEST PROCEDURES.
16. ACCH-2 SHALL BE REDUNDANT FOR N+1 REDUNDANCY.
17. MINIMUM SHORT CIRCUIT RATING SHALL BE 65 kA.

AIR HANDLING UNIT SCHEDULE

UNIT TAG NO.	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	FAN DATA			FAN QTY.	COOLING COIL PERFORMANCE												ELECTRICAL															BASIS OF DESIGN					
			ESP (IN.W.G.)	FEI	TYPE		TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	AIR PRESSURE DROP (IN.W.G.)	MIN. WATER FLOW (GPM)	EWT (°F)	LWT (°F)	WATER PRESSURE DROP (FT. H20)	MAX. ROWS	MAX. FPI	FAN ARRAY						SCR ELECTRIC PRE-HEAT					MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	MAX. OVERALL UNIT DIMENSIONS		
																			VOLTAGE (V)	PH.	HZ.	PER FAN MOTOR HP	PER FAN FLA (A)	MCA (A)	MOCP (A)	VOLTAGE (V)	KW	FLA (A)	MCA (A)	MOCP (A)				LENGTH	WIDTH	HEIGHT
AHU-1	4,850	1,660	2.5	1.25	CENTRIFUGAL-PLENUM	2	286,000	166,000	79.0	68.0	50.0	49.8	0.76	48	42.0	54.0	9.6	10	9	208	3	60	6.1	11.12	25	35	208	21	58.3	72.86	80	YORK	XTI-63X51	4,200	10' - 5"	4' - 3"	5' - 9"
AHU-2	4,450	930	2.5	1.23	CENTRIFUGAL-PLENUM	2	218,000	138,000	76.8	65.2	50.0	48.9	0.65	36	42.0	54.0	6.1	10	9	208	3	60	6.1	11.12	25	35	208	9	25	31.22	35	YORK	XTI-63X51	4,000	10' - 10"	4' - 3"	5' - 9"

NOTES:

1. AIR HANDLING UNIT SHALL BE CARRIER 39MN SERIES, YORK SOLUTION SERIES, DAIKIN, TEMTROL, OR PRIOR APPROVED EQUIVALENT.
2. EQUIPMENT FOOTPRINT SHOWN ON DRAWINGS SHALL BE MAXIMUM DIMENSIONS.
3. EQUIPMENT STARTUP SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.
4. PROVIDE SOLID DOUBLE WALL PANELS WITH R-13 INSULATION. WALL THICKNESS SHALL BE 2 IN. MINIMUM. PROVIDE OPTION FOR SOUND ATTENUATION LINING/PANELS IN SUPPLY AND RETURN AIR PLENUM SECTIONS.
5. PROVIDE MINIMUM 8" HIGH BASE RAIL.
6. PROVIDE CLASS II, DIRECT-DRIVE, SWSI, AIRFOIL BLADE FANS.
7. PROVIDE PREMIUM EFFICIENCY, INVERTER DUTY RATED MOTORS FOR VARIABLE SPEED APPLICATIONS OR ECM.
8. PROVIDE FIELD INSTALLED UV LIGHTS @ COOLING COIL SECTION. PROVIDE FRONT DOOR VIEW PORT AND KILL-SWITCH WIRED TO UV LIGHTS ON ACCESS DOORS LOCATED DOWNSTREAM OF COOLING COIL. PROVIDE LOCAL TOGGLE UV LIGHT DISCONNECT SWITCH.
9. PROVIDE ACCESS DOORS (15" MIN. CLEAR OPENING) FOR COIL MAINTENANCE ACCESS AS NECESSARY.
10. MAXIMUM FINS PER INCH SHALL BE 9. COIL TUBE SHALL BE MINIMUM 0.035 INCHES THICK AND 5/8"DIA.
11. FILTER SECTION SHALL HOUSE 2" PLEATED MERV-13 FILTERS. INITIAL RESISTANCE SHALL NOT EXCEED 0.3" W.G. AND RECOMMENDED FINAL RESISTANCE SHALL NOT EXCEED 0.8" W.G.
12. PROVIDE DIFFERENTIAL PRESSURE SWITCH ACROSS EACH SET OF FILTERS. PROVIDE INTERFACE WITH BAS FOR MONITORING AND ALARM.
13. COIL HEADER AND CONNECTION MATERIAL SHALL BE RED BRASS, NO EXCEPTIONS.
14. COIL CASING MATERIAL SHALL BE STAINLESS STEEL. COIL SUPPORTS AND BLANK-OFF PLATES FOR ALL CHW COILS SHALL BE STAINLESS STEEL.
15. PROVIDE 18 GA. S.S. ALL WELDED EMERGENCY DRAIN PAN. SIDES SHALL BE MIN. 2" WITH 1/2" HEMM. PAN SHALL EXTEND 6" BEYOND ALL SIDES OF UNIT AND COIL PIPING CONNECTIONS. PROVIDE MIN. 1" CONDENSATE LINE TO FLOOR DRAIN. PIPE SHALL BE INSTALLED IN A MANNER TO AVOID TRIPPING HAZARDS.
16. EQUIPMENT SHALL HAVE A MINIMUM 5-YEAR PARTS AND LABOR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION.
17. ALL COOLING COILS SHALL BE COPPER TUBE & ALUMINUM FIN WITH MAX. WATER PRESSURE DROP OF 10 FEET.
18. UNLESS OTHERWISE NOTED, PROVIDE 2-WAY PRESSURE INDEPENDENT FLOW LIMITING CHILLED WATER AND HEATING HOT WATER CONTROL VALVES.
19. PROVIDE INDEPENDENT MOTORIZED RETURN AND OUTDOOR AIR CONTROL DAMPERS. PROVIDE ACTUATORS WITH POSITION FEEDBACK FOR BAS MONITORING PURPOSES.
20. PROVIDE SUPPORTS AND ANCHORS AS NECESSARY TO SUSTAIN SEISMIC FORCES IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE.
21. REFER TO MANUFACTURER INSTALLATION, OPERATION AND MAINTENANCE MANUALS AND COORDINATE WITH OTHER TRADES AS NECESSARY.
22. AIR VELOCITY ACROSS COOLING COILS SHALL NOT EXCEED 475 FPM AT FULL DESIGN AIRFLOW.
23. REFER TO SPECIFICATIONS FOR ADDITIONAL EQUIPMENT REQUIREMENTS.
24. PROVIDE SINGLE POINT POWER CONNECTION FOR THE FAN ARRAY FOR EACH AHU.
25. MINIMUM SHORT CIRCUIT RATING SHALL BE 65 kA.

FAN COIL UNIT SCHEDULE

UNIT TAG NO.	AREA SERVED	SUPPLY AIR (CFM)	ESP (IN.W.G.)	FAN DATA		COOLING COIL PERFORMANCE											ELECTRICAL							BASIS OF DESIGN		
				TYPE	FAN QTY.	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	MIN. WATER FLOW (GPM)	EWT (°F)	LWT (°F)	AIR PRESSURE DROP (IN.W.G.)	MAX. ROWS	MAX FPI	VOLTAGE (V)	PH.	HZ.	MOTOR HP	FLA (A)	MCA (A)	MOCP (A)	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS.)
FCU-1	IT 120	1,600	1.0	FC DIRECT DRIVE ECM	1	45,290	41,360	75.2	60.0	52.9	50.2	8	42	54	0.18	6	8	115	1	60	1	12.80	16	20	JOHNSON CONTROLS	AHD-20	321

NOTES:

1. UNITS SHALL BE MANUFACTURED BY JOHNSON CONTROLS, ENVIRO-TEC, CARRIER, DAIKIN OR PRIOR APPROVED EQUIVALENT.
2. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ALL TRADES AS NECESSARY.
3. PROVIDE ACCESS DOOR (DOUBLE WALL DOOR WITH LIFT & TURN FASTENERS).
4. PROVIDE FACTORY BASE RAILS.
5. RETURN AIR PLENUM SHALL BE PROPERLY SEALED & INSULATED.
6. PROVIDE CONDENSATE FLOAT SWITCH.
7. PROVIDE EXTERNAL VIBRATION ISOLATORS - SPRING TYPE.
8. PROVIDE DOOR INTERLOCK FUSED DISCONNECT SWITCH.
9. PROVIDE 2-WAY, FULL-MODULATING, CHILLED WATER CONTROL VALVES.
10. PROVIDE HAND-OFF AUTO SWITCH.
11. EQUIPMENT START-UP SHALL BE PROVIDED BY MANUFACTURER.
12. PROVIDE SINGLE-POINT POWER CONNECTION.
13. PROVIDE PREMIUM EFFICIENCY INVERTER DUTY RATED MOTORS FOR VARIABLE SPEED OR ECM.
14. FILTER ACCESS SHALL BE FROM THE BOTTOM. PROVIDE 2", MERV-8 FILTERS.
15. PROVIDE 18 GA. S.S ALL-WELDED EMERGENCY DRAIN PAN. SIDES SHALL BE MIN. 2" WITH 1/2" HEMM. PAN SHALL EXTEND 6" BEYOND ALL SIDES OF UNIT & COIL PIPING CONNECTIONS.
16. PROVIDE MIN. 1" CONDENSATE LINE TO FLOOR DRAIN OR INDIRECT DRAIN. PIPE SHALL BE INSTALLED IN A MANNER THAT DOES NOT POSE A TRIPPING HAZARD.
17. PROVIDE STAINLESS STEEL COOLING COIL CASING.
18. FAN COILS TO HAVE A MIN. 5-YEAR PARTS & LABOR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION.
19. INTERLOCK WITH BAS SYSTEM.

EXHAUST FAN SCHEDULE

UNIT TAG NO.	AIRFLOW (CFM)	EXTERNAL SP (IN-WG)	ELECTRICAL DATA					MANUFACTURER	MODEL	DRIVE TYPE	WEIGHT (LBS)
			NUMBER OF MOTORS	MOTOR HP	VOLTAGE (V)	PH.	HZ.				
EF-1	350	0.25	1	0.07	120	1	60	GREENHECK	G-060-VG	DIRECT	35
EF-2	100	0.25	1	0.07	120	1	60	GREENHECK	G-060-VG	DIRECT	35
EF-3	100	0.25	1	0.07	120	1	60	GREENHECK	G-060-VG	DIRECT	35
EF-4	100	0.25	1	0.07	120	1	60	GREENHECK	G-060-VG	DIRECT	35

NOTES:

1. EXHAUST FANS SHALL BE AS MANUFACTURED BY GREENHECK, LOREN COOK, OR PRIOR APPROVED EQUIVALENT.
2. PROVIDE ECM MOTORS WITH MOUNTED POTENTIOMETER DIAL.
3. PROVIDE BACKDRAFT DAMPER.
4. PROVIDE DISCONNECT SWITCH.
5. ROOF MOUNTED EXHAUST FANS SHALL BE RATED FOR HIGH WIND FORCE CONDITIONS (MIN. 60 PSF). PROVIDE TIE-DOWN POINTS (MIN. OF 4).
6. PROVIDE GALVANIZED ROOF CURB WITH DAMPER TRAY. PROVIDE CURB SEAL AND HINGED CURB CAP KIT WITH CABLES.
7. PROVIDE STAINLESS STEEL BIRDSCREEN.
8. PROVIDE STAINLESS STEEL FASTENERS.
9. INTERFACE ALL EXHAUST FANS WITH BAS FOR MONITORING AND CONTROL.
10. INTERLOCK EXHAUST FAN OPERATION WITH ROOFTOP AIR HANDLING UNIT OPERATION.
11. PROVIDE OCCUPANCY SENSORS FOR EF-2 AND EF-4.
12. EF-1 AND EF-3 SHALL RUN CONTINUOUSLY.

VARIABLE FREQUENCY DRIVE SCHEDULE

NOTES:

1. REFER TO SPECIFICATION SECTION 23 09 20.
2. THE FOLLOWING EQUIPMENT SHALL HAVE VFD'S SUPPLIED BY ONE VFD MANUFACTURER.
   - ALL SCHEDULED MOTORS THAT ARE NOT SPECIFIED AS ECM TYPE.
3. ALL VFD'S SHALL BE 6 PULSE. MOTORS 100 HP AND LARGER SHALL BE 18 PULSE.
4. PROVIDE VFD'S WITH CIRCUIT BREAKER DISCONNECT AND BYPASS. VFD'S FOR AIR HANDLING UNITS SHALL BE PROVIDED WITHOUT A BYPASS.
5. VFD'S SHALL BE ABB ACH-580 ULH SERIES, YASKAWA, DANFOSS, OR PRIOR APPROVED EQUIVALENT.
6. REFER TO THE INDIVIDUAL EQUIPMENT SCHEDULES FOR THE HORSEPOWER REQUIREMENTS FOR EACH PIECE OF EQUIPMENT REQUIRING VFD'S.
7. PROVIDE EQUIPMENT START-UP, TRAINING, AND TROUBLESHOOTING BY A CERTIFIED FACTORY REPRESENTATIVE AFTER ALL MECHANICAL SYSTEMS AND ENSURE BUILDING AUTOMATION SYSTEM CONTROLS ARE IN PROPER OPERATING CONDITION.
8. UNLESS OTHERWISE NOTED, ALL VFD'S SHALL BE PROVIDED WITH A UL, NEMA-1 RATED ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE AND VERIFY COMPATIBILITY OF EQUIPMENT MOTOR HP WITH VFD'S.
10. VFD'S LOCATED MORE THAN 10 FT. AWAY OR OUTSIDE OF THE EQUIPMENT MOTOR DISCONNECT'S LINE OF SIGHT, SHALL BE INTERLOCKED WITH THE MOTOR DISCONNECT. REFER TO ELECTRICAL FOR AUXILIARY CONTACT REQUIREMENTS.
11. PROVIDE dV/dT OUTPUT FILTERS TO ALL VFD'S WHICH REQUIRE A WIRING LENGTH IN EXCESS OF 100 FEET TO SERVE ELECTRIC MOTORS LOCATED DOWNSTREAM OF THE VFD. CONTRACTOR SHALL COORDINATE WITH THE VFD MANUFACTURER FOR PROPER SELECTION, COMPATIBILITY AND INSTALLATION OF VFD'S, OUTPUT FILTERS, AND EQUIPMENT MOTORS.

ELECTRIC VAV TERMINAL SCHEDULE

UNIT TAG NO.	EQUIPMENT SERVED	COOLING CFM	HEATING CFM	KW	EAT	LAT	INLET DIAMETER
VAV-1-1	AHU-1	900	315	3.9	51	90	12"
VAV-1-2	AHU-1	650	260	3.2	51	90	10"
VAV-1-3	AHU-1	1,150	403	4.9	51	90	12"
VAV-1-4	AHU-1	800	280	3.5	51	90	10"
VAV-1-5	AHU-1	1,500	525	6.5	51	90	14"
VAV-1-6	AHU-1	300	105	1.3	51	90	8"
		5,300	1,888	23.3			
VAV-2-1	AHU-2	1,850	648	8	51	90	16"
VAV-2-2	AHU-2	880	308	3.8	51	90	12"
VAV-2-3	AHU-2	800	400	4.9	51	90	10"
VAV-2-4	AHU-2	400	200	2.5	51	90	8"
VAV-2-5	AHU-2	150	150	1.9	51	90	6"
VAV-2-6	AHU-2	350	350	4.2	51	89	8"
VAV-2-7	AHU-2	200	120	1.5	51	90	6"
		4,630	2,176	26.7			
Grand total: 13		9,930	4,063	50.1			

NOTES:

1. POWER FOR VAV TERMINALS SHALL BE SINGLE POINT 208/3PH.
2. APPROVED MANUFACTURERS SHALL INCLUDE ENVIRO-TEC, NAILOR INDUSTRIES, PRICE, TITUS, KRUEGER, OR PRIOR APPROVED EQUIVALENT.
3. PROVIDE ELECTRIC HEATER WITH MAGNETIC CONTACTORS AND SSR/SCR CONTROL. COORDINATE POWER REQUIREMENTS WITH DIVISION 26.
4. VAV TERMINAL UNIT DDC CONTROLLER SHALL PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE VAV TERMINAL UNIT MANUFACTURER. PROVIDE NECESSARY POWER TRANSFORMERS FOR CONTROLS.
5. VAV TERMINAL UNITS SHALL INCLUDE AN IDENTIFICATION TAG PROVIDED BY THE MANUFACTURER.
6. MAX. AIR PRESSURE DROP SHALL BE 0.4" W.G. BASED ON THE MAXIMUM COOLING AIRFLOW.
7. TERMINALS SHALL MEET REQUIREMENTS OF UL 181 AND NFPA 90A.
8. TERMINALS SHALL BE SINGLE DUCT, DDC WITH STANDARD MULTI-POINT CENTER AVERAGING VELOCITY SENSOR.
9. UPSIZE BRANCH DUCT RUNOUT TO VAV TERMINAL UNIT INLET BY 2 INCHES IN DIAMETER.
10. CONTROL CONTRACTOR SHALL PROVIDE 120V TRANSFORMER AT EACH VAV TERMINAL UNIT FOR CONTROLS.
11. DURING HEATING MODE, LEAVING AIR TEMPERATURE SHALL BE CONTROLLED NOT TO EXCEED 15°F ABOVE SPACE TEMPERATURE SET-POINT.
12. ALL VAV BOXES SHALL HAVE STERI LINER.

CHILLED WATER PUMP SCHEDULE

UNIT TAG NO.	FLOW RATE (GPM)	PUMP PERFORMANCE			ELECTRICAL		ELECTRICAL			BASIS OF DESIGN	
		HEAD (FT. WG.)	WORKING PRESSURE (PSI)	FLUID TEMP. (°F)	MOTOR POWER (HP)	MOTOR SPEED (RPM)	VOLTAGE	PH.	HZ.	MANUFACTURER	MODEL
CWP-1	92	75	125	42	5	1760	208	3	60	TACO	KS2009D
CWP-2	92	75	125	42	5	1760	208	3	60	TACO	KS2009D

NOTES:

1. PROVIDE HIGH EFFICIENCY, INVERTER DUTY, ODP MOTORS RATED FOR VFD APPLICATIONS.
2. PUMPS SHALL BE VERTICAL IN-LINE TYPE.
3. PUMPS SHALL BE ALIGNED BY A FACTORY CERTIFIED TECHNICIAN AFTER INSTALLATION OF PUMP AND PIPING SYSTEMS.
4. PUMP MOTOR SHALL BE NON-OVERLOADING OVER THE ENTIRE PUMP OPERATING CURVE RANGE.
5. PROVIDE SUCTION DIFFUSER FROM PUMP MANUFACTURER.
6. PUMP EFFICIENCY SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF IECC 2021.
7. PUMPS SHALL HAVE A MINIMUM 1-YEAR, PARTS AND LABOR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION.
8. PUMPS SHALL BE MANUFACTURED BY TACO, GOULDS, ARMSTRONG PUMPS, BELL & GOSSET, OR PRIOR APPROVED EQUIVALENT.
9. PROVIDE A CONCRETE INERTIA BASE WITH 2" DEFLECTION SPRINGS FOR BASE MOUNTED PUMPS. PROVIDE PUMP MANUFACTURER BASE SUPPORT FOR PUMPS TO BE MOUNTED ON INERTIA BASES.
10. PROVIDE CONTROLS FOR LEAD-LAG OPERATION BASED ON RUN-TIME SCHEDULE. COORDINATE WITH BAS CONTROLS.

LOUVER SCHEDULE

UNIT TAG NO.	EXHAUST/INTAKE	LOUVER SIZE (W X H)	AIRFLOW (CFM)	MAXIMUM AIR PD (IN W.G.)	FREE AIR (SQ. FT.)	MANUFACTURER	MODEL
L-1	INTAKE	40" X 28"	2,590	0.06	4.1	GREENHECK	ESD-635DE-40X28

NOTES:

1. UNLESS OTHERWISE NOTED, LOUVERS SHALL BE HURRICANE RATED (MIAMI-DADE APPROVED) AND CERTIFIED TO WITHSTAND A MAXIMUM WIND LOAD RATING OF 60 PSF WITH DRAIN GUTTERS IN EACH BLADE AND DOWNSPOUTS IN JAMBS AND MULLIONS.
2. STATIONARY DRAINABLE BLADES SHALL BE CONTAINED WITHIN A 4-1/8" FRAME.
3. LOUVER COMPONENTS (HEADS, JAMBS, SILLS, BLADES & MULLIONS) SHALL BE FACTORY ASSEMBLED BY THE LOUVER MANUFACTURER.
4. LOUVER SIZES TOO LARGE FOR SHIPPING SHALL BE BUILT BY THE CONTRACTOR FROM FACTORY ASSEMBLED LOUVER SECTIONS TO PROVIDE OVERALL SIZED REQUIRED.
5. LOUVER DESIGN SHALL INCORPORATE STRUCTURAL SUPPORTS REQUIRED TO WITHSTAND A WIND LOAD OF 60 PSF.
6. LOUVER SHALL BE EXTRUDED ALUMINUM CONSTRUCTED AS FOLLOWS:
   a. FRAME: 4-1/8" DEEP, 0.081" NOMINAL WALL THICKNESS
   b. BLADES: 0.81" NOMINAL WALL THICKNESS & DRAINABLE. BLADES ARE POSITIONED AT 37° ANGLE AND SPACED APPROXIMATELY 2.188" CENTER TO CENTER.
   c. SCREEN: 3/4" X 0.051" EXPANDED, FLATTENED ALUMINUM IN REMOVABLE FRAME.
   d. FINISH: TO BE SELECTED BY THE ARCHITECT.
   e. COLOR: TO BE SELECTED BY THE ARCHITECT.
7. PUBLISHED LOUVER PERFORMACE DATA BEARING THE AMCA CERTIFIED RATINGS SEAL FOR AIR PERFORMANCE & WATER PENETRATION MUST BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION AND MUST DEMOSTRATE PRESSURE DROP AND WATER PENETRATION EQUAL TO OR LESS THAN THE BASIS OF DESIGN EQUIPMENT SPECIFIED.
8. INSTALL LOUVERS AS PER THE MANUFACTURER'S SUGGESTED INSTALLATION RECOMMENDATIONS.
9. MAXIMUM LOUVER FACE VELOCITY SHALL BE AS FOLLOWS:
   a. AIR INTAKE LOUVERS: 700 FEET PER MINUTE (FPM)
   b. EXHAUST LOUVERS: 900 FEET PER MINUTE (FPM)
10. LOUVERS SHALL BE UNITED ENERTECH, GREENHECK, RUSKIN OR PRIOR APPROVED EQUIVALENT.

GRILLES, REGISTER, AND DIFFUSERS SCHEDULE

UNIT TAG NO.	MIN.	MAX.	NECK SIZE	MAX DELTA P (IN. W.G.)	MAX. NOISE CRITERIA	DESCRIPTION	BASIS OF DESIGN	
							MANUFACTURER	MODEL NUMBER
1A	0	150	6"ø	0.1	20	SUPPLY DIFFUSER, 12"X12", LAY-IN, T-BAR, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	ASPD
1B	50	150	6"ø	0.1	20	SUPPLY DIFFUSER, 24"X24", LAY-IN, T-BAR, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	ASPD
1C	150	250	8"ø	0.1	20	SUPPLY DIFFUSER, 24"X24", LAY-IN, T-BAR, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	ASPD
1D	250	300	10"ø	0.1	20	SUPPLY DIFFUSER, 24"X24", LAY-IN, T-BAR, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	ASPD
1E	300	480	12"ø	0.1	20	SUPPLY DIFFUSER, 24"X24", LAY-IN, T-BAR, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	ASPD
2B	0	340	10"ø	0.1	20	SUPPLY AIR 60° LINEAR SLOT DIFFUSER (1.5" X 2-SLOT) WITH PLENUM. LAY-IN OR SURFACE MOUNT WITH MITERED END CAPS, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	SDS/SDB
2C	0	370	10"ø	0.1	20	SUPPLY AIR 48° LINEAR SLOT DIFFUSER (1.5" X 3-SLOT) WITH PLENUM. LAY-IN OR SURFACE MOUNT WITH MITERED END CAPS, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	SDS/SDB
2D	0	440	10"ø	0.1	20	SUPPLY AIR 60° LINEAR SLOT DIFFUSER (1.5" X 4-SLOT) WITH PLENUM. LAY-IN OR SURFACE MOUNT WITH MITERED END CAPS, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	SDS/SDB
3A	0	720	12"X12"	0.05	20	RETURN/EXHAUST AIR 1/2" X 1/2" X 1/2" EGG CRATE FACE, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	80
3D	0	2,000	22"X22"	0.05	20	RETURN/EXHAUST AIR 1/2" X 1/2" X 1/2" EGG CRATE FACE, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	80
4A	0	1,390	12"X36"	0.05	25	RETURN LOUVERED GRILLE, 3/4" BLADE SPACING AT 0° DEFLECTION, ALUMINUM CONTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	610Z
4B	0	2,145	40"X16"	0.05	25	RETURN LOUVERED GRILLE, 3/4" BLADE SPACING AT 0° DEFLECTION, ALUMINUM CONTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	610Z
4C	0	2,145	32"X20"	0.05	25	RETURN LOUVERED GRILLE, 3/4" BLADE SPACING AT 0° DEFLECTION, ALUMINUM CONTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	610Z
5A	0	480	8"X12"	0.1	25	SUPPLY LOUVERED GRILLE, 3/4" BLADE SPACING AT 45° DEFLECTONL, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	510
5C	0	1,900	20"X20"	0.15	35	SUPPLY DIFFUSER, ADJUSTABLE MODULAR CORE, LAY-IN, T-BAR, ALUMINUM CONSTRUCTION, COLOR FINISH BY ARCHITECT.	PRICE	AMCD

NOTES:

1. PROVIDE PLASTER RING FOR GYPSUM CEILINGS.
2. COORDINATE WITH ARCHITECTURAL CEILING AND LIGHTING PLANS TO LOCATE GRILLES AND DIFFUSERS.
3. INSULATE (R-6 MIN. DUCT WRAP) AND SEAL THE BACK OF GRILLES TO PREVENT CONDENSATION.
4. PROVIDE 10"(MIN.) PLENUM EXTENSION OR SHOE-TAP TO ANY DIFFUSER CONNECTION.
5. FOR ALL RETURN AIR GRILLE, PROVIDE FULL SIZE DUCT CONNECTION EQUAL TO GRILLE NECK SIZE. PROVIDE A MANUAL VOLUME DAMPER IN DUCT.
6. PROVIDE DUCT TRANSITIONS AT THE FACE OF THE GRILLES AND/OR DIFFUSERS.
7. UNLESS OTHERWISE NOTED, DIFFUSERS, REGISTERS AND GRILLES SHALL BE ALUMINUM CONSTRUCTION AND WHITE COLOR.
8. PRESSURE DROP SHALL NOT EXCEED 0.1 IN.W.G. FOR SUPPLY GRILLES AND 0.08 IN.W.G. FOR EXHAUST GRILLES.
9. FOR ALL RETURN AIR GRILLES, PROVIDE FULL SIZE DUCT CONNECTION EQUAL TO GRILLE NECK SIZE.

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HVAC SCHEDULES

SHEET NUMBER: M101

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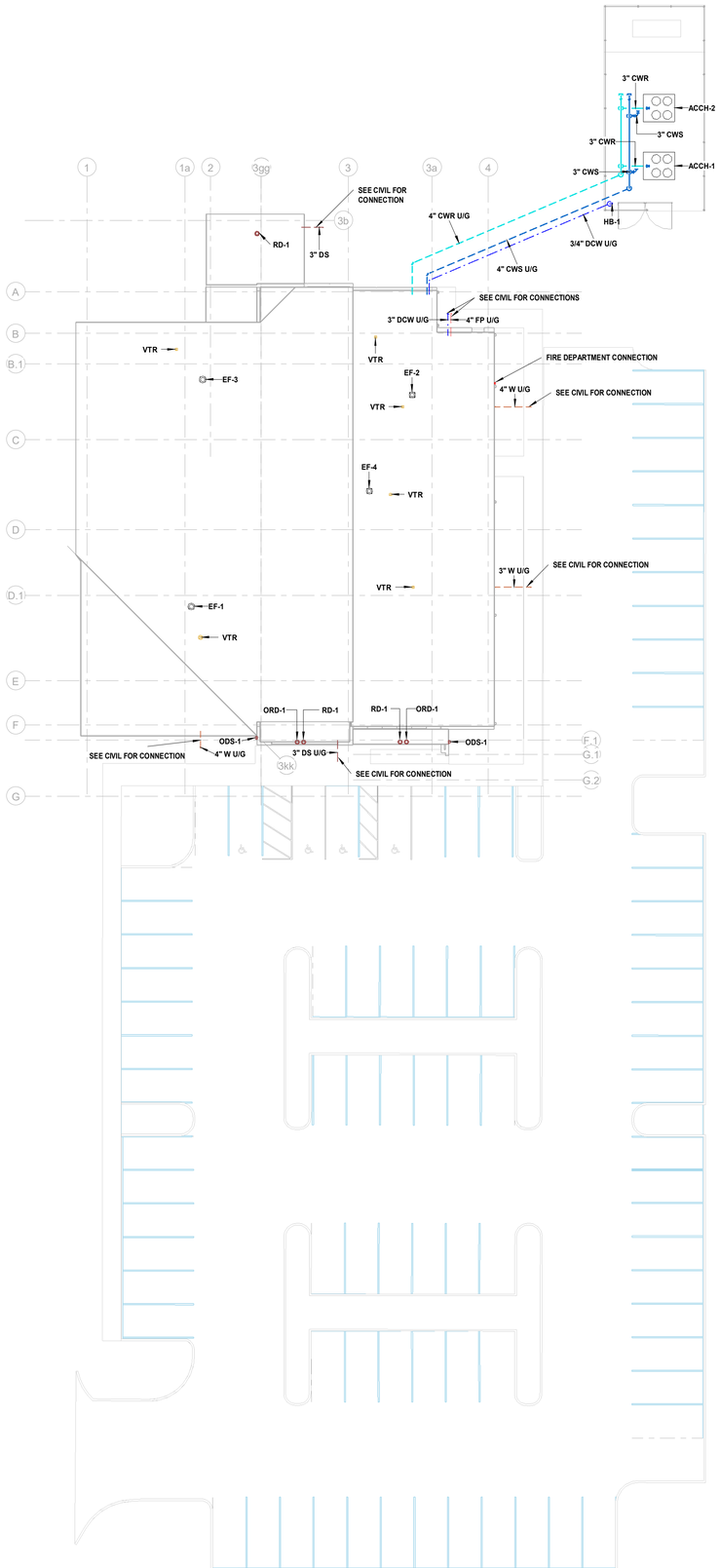

1 MECHANICAL & PLUMBING SITE PLAN
1/16" = 1'-0"

SHEET NOTES:

1. ROUTE CONDENSATE DRAIN LINES FROM NEW AIR HANDLING UNITS TO NEAREST EXISTING FLOOR DRAINS. ROUTE DRAIN LINES TO AVOID TRIPPING HAZARDS.
2. CONDENSATE PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION.
3. PROVIDE FULL SIZE CONDENSATE DRAIN FOR ALL COOLING COILS TO FLOOR DRAIN.
4. PROVIDE 18 GA. S.S. ALL WELDED EMERGENCY DRAIN PAN FOR ALL INDOOR AIR HANDLING UNITS. SIDES SHALL BE MINIMUM 2" WITH 1/2" HEM. PAN SHALL EXTEND 6" BEYOND ALL SIDES OF UNIT AND COIL PIPING CONNECTIONS. PROVIDE 3/4" BRASS HOSE CONNECTION WITH END CAP.
5. PROVIDE CLEANOUTS AT EVERY BEND FOR CONDENSATE PIPING. COORDINATE WITH ALL TRADES AND STRUCTURAL.
6. COORDINATE WITH CEILINGS PROVIDE CONDENSATE LINE PIPE SUPPORTS AND HARDWARE FOR PROPER SLOPE.
7. ALL CONDENSATE PIPING SHALL BE COPPER AND MIN. EQUIPMENT MANUFACTURERS RECOMMEND DRAIN PIPE DIAMETER . PROVIDE INDIRECT WASTE DRAINS AS NEEDED FOR CONDENSATE PIPING.
8. CONDENSATE PIPING ARE DIAGRAMMATICAL IN NATURE. CONTRACTOR SHALL ROUTE PIPING PER EXISTING CONDITIONS & MANUFACTURER'S RECOMMENDED DISTANCES.
9. EXACT PIPE ROUTING TO BE COORDINATED ON FIELD.
10. PROVIDE ALL NECESSARY REFRIGERANT VALVES, ACCUMULATORS, TRAPS, FILTERS, ETC. AS PER MANUFACTURER'S RECOMMENDATIONS.
11. NOT ALL PIPING COMPONENTS (VALVES, SENSORS, CLEANOUTS, AIR VENTS, DRAINS, ETC.) ARE SHOWN. REFER TO DETAILS AND CONTROL SCHEMATICS FOR ADDITIONAL INFORMATION.
12. COORDINATE FINAL THERMOSTAT AND CO2 SENSOR LOCATIONS WITH ARCHITECTURAL.
13. PROVIDE WALL-PLATED OR DUCT-MOUNTED TEMPERATURE SENSORS (T-STATS) AT ALL CORRIDOR LOCATIONS.
14. COORDINATE ALL THROUGH PENETRATIONS WITH ARCHITECTURAL AND STRUCTURAL.
15. PROVIDE SHUTOFF VALVES AT CONNECTION OF THE MAIN/BRANCH PIPING AND AT EACH RISER/FLOORS.
16. ALL UNDERGROUND PIPING SHALL BE POLYPROPYLENE (PP-R and PP-RCT) PIPING AND USE THE ELECTROFUSION JOINING METHOD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLUMBING GENERAL NOTES:

1. PROVIDE 1/2" TRAP PRIMER TO FLOOR DRAINS (TYP.).
2. PROVIDE WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.
3. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELBOARDS, GEARS, ETC.
4. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER THE PLUMBING DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES & OTHER QUICK CLOSING VALVES ARE USED.
5. PROVIDE BALL VALVE SHUTOFF FOR EACH BATHROOM GROUP AND/ OR FIXTURE GROUP.
6. COORDINATE PLUMBING WASTE, VENT, AND DOMESTIC WATER PIPING WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO FRAMING WALLS. OFFSET AS REQUIRED TO FIT INTO WET WALLS.
7. PROVIDE CLEANOUTS AT THE BASE OF ALL RISERS IN ACCORDANCE WITH CURRENTLY ADOPTED CODES AND STANDARDS.
8. ALL UNDERGROUND DOMESTIC WATER PIPING SHALL BE POLYPROPYLENE (PP-R and PP-RCT) PIPING AND USE THE ELECTROFUSION JOINING METHOD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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MECHANICAL & PLUMBING SITE PLAN

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M200

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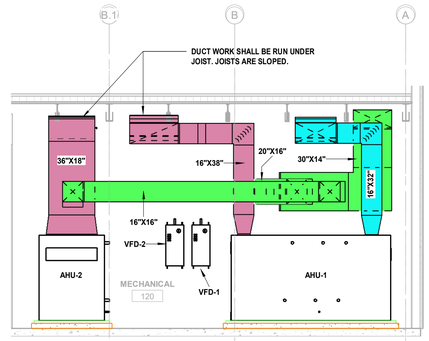
HVAC DUCT LEGEND

- SUPPLY AIR
- RETURN AIR
- OUTDOOR AIR
- EXHAUST AIR

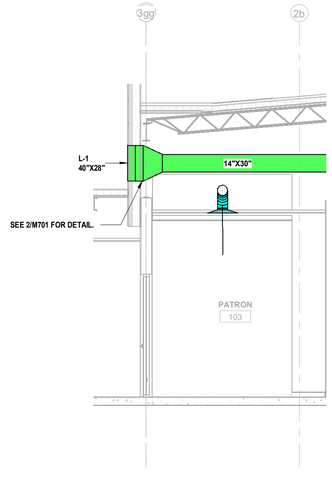
SHEET NOTES:

1. INSTALL SINGLE THICKNESS TURNING VANES IN DUCTWORK ELBOWS.
2. PROVIDE BALANCING DAMPER AT ALL DUCTWORK BRANCHES TO DIFFUSERS, GRILLES, ETC. COORDINATE WITH TAB CONTRACTOR FOR BEST LOCATION TO INSTALL BALANCING DAMPERS. PROVIDE ADDITIONAL BALANCING DAMPERS AS REQUIRED BY TAB CONTRACTOR.
3. ALL EXHAUST MANUAL BALANCING DAMPERS SHALL BE LOW LEAKAGE TYPE. NAILOR MODEL 1090 OR PRIOR APPROVED EQUIVALENT.
4. UPSIZE ALL VAV RUNOUTS BY 2" AFTER RECOMMENDED STRAIGHT RUN UPSTREAM OF THE VAV TERMINAL UNIT.
5. PROVIDE ISOLATION VALVES AT ALL COILS.
6. OFFSET DUCT AND PIPING AS NECESSARY. MINIMIZE OFFSETS AS MUCH AS POSSIBLE. FIELD COORDINATE WITH ALL TRADES.
7. PROVIDE CONDENSATE DRAIN LINES FOR ALL AHU'S. SIZE PER MANFACTURER'S RECOMMENDATIONS.
8. PROVIDE SUPPLY, OUTSIDE, RETURN, AND/OR MIXED AIR OPENINGS IN AIR HANDLING UNITS AS REQUIRED. OPENING SIZES SHALL BE DICTATED BY ASSOCIATED DUCT SIZES. PROVIDE TRANSITIONS AS REQUIRED.
9. PROVIDE THERMOSTATS FOR ALL VAV TERMINAL UNITS. FIELD COORDINATE FINAL LOCATION WITH OTHER TRADES.
10. PROVIDE SHEET METAL DRIP PAN UNDER DUCT THAT IS ABOVE ELECTRICAL ANY ROOM. DRIP PAN SHALL BE SLOPED TOWARDS DRAIN HOLE THAT SHALL BE ROUTED TO NEAREST DRAIN.
11. PROVIDE PIPE IDENTIFICATION LABELS. COORDINATE LABEL LOCATION WITH ARCHITECT AND OWNER.

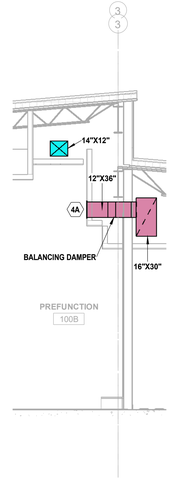
1 1ST FLOOR PLAN - HVAC
3/16" = 1'-0"



2 AHU DUCT SECTION
1/4" = 1'-0"



3 OUTSIDE AIR LOUVER SECTION
1/4" = 1'-0"



4 MAIN ENTRY / PREFUNCTION RETURN
1/4" = 1'-0"

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FIRST FLOOR PLAN - HVAC

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Drawn By: ZL Checked By: JL

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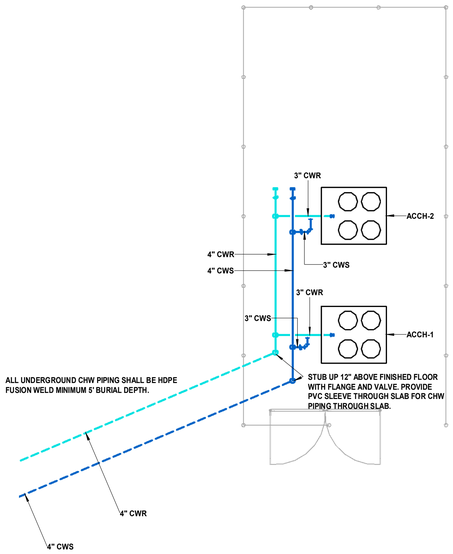
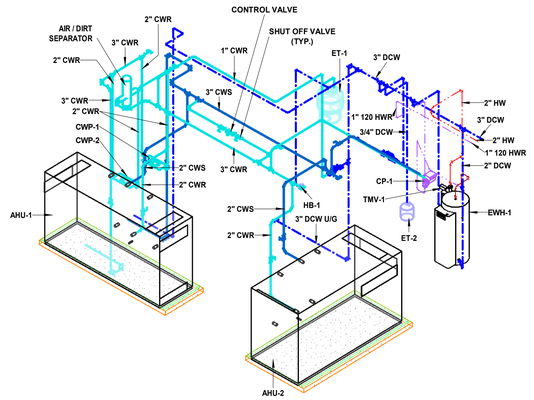
1 1ST FLOOR PLAN - HVAC PIPING
3/16" = 1'-0"

SHEET NOTES:

1. ROUTE CONDENSATE DRAIN LINES FROM NEW AIR HANDLING UNITS TO NEAREST EXISTING FLOOR DRAINS. ROUTE DRAIN LINES TO AVOID TRIPPING HAZARDS.
2. CONDENSATE PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION.
3. PROVIDE FULL SIZE CONDENSATE DRAIN FOR ALL COOLING COILS TO FLOOR DRAIN.
4. PROVIDE 18 GA. S.S. ALL WELDED EMERGENCY DRAIN PAN FOR ALL INDOOR AIR HANDLING UNITS. SIDES SHALL BE MINIMUM 2" WITH 1/2" HEM. PAN SHALL EXTEND 6" BEYOND ALL SIDES OF UNIT AND COIL PIPING CONNECTIONS. PROVIDE 3/4" BRASS HOSE CONNECTION WITH END CAP.
5. PROVIDE CLEANOUTS AT EVERY BEND FOR CONDENSATE PIPING. COORDINATE WITH ALL TRADES AND STRUCTURAL.
6. COORDINATE WITH CEILINGS PROVIDE CONDENSATE LINE PIPE SUPPORTS AND HARDWARE FOR PROPER SLOPE.
7. ALL CONDENSATE PIPING SHALL BE COPPER AND MIN. EQUIPMENT MANUFACTURERS RECOMMEND DRAIN PIPE DIAMETER . PROVIDE INDIRECT WASTE DRAINS AS NEEDED FOR CONDENSATE PIPING.
8. CONDENSATE PIPING ARE DIAGRAMMATICAL IN NATURE. CONTRACTOR SHALL ROUTE PIPING PER EXISTING CONDITIONS & MANUFACTURER'S RECOMMENDED DISTANCES.
9. EXACT PIPE ROUTING TO BE COORDINATED ON FIELD.
10. PROVIDE ALL NECESSARY REFRIGERANT VALVES, ACCUMULATORS, TRAPS, FILTERS, ETC. AS PER MANUFACTURER'S RECOMMENDATIONS.
11. NOT ALL PIPING COMPONENTS (VALVES, SENSORS, CLEANOUTS, AIR VENTS, DRAINS, ETC.) ARE SHOWN. REFER TO DETAILS AND CONTROL SCHEMATICS FOR ADDITIONAL INFORMATION.
12. COORDINATE FINAL THERMOSTAT AND CO2 SENSOR LOCATIONS WITH ARCHITECTURAL.
13. PROVIDE WALL-PLATED OR DUCT-MOUNTED TEMPERATURE SENSORS (T-STATS) AT ALL CORRIDOR LOCATIONS.
14. COORDINATE ALL THROUGH PENETRATIONS WITH ARCHITECTURAL AND STRUCTURAL.
15. PROVIDE SHUTOFF VALVES AT CONNECTION OF THE MAIN/BRANCH PIPING AND AT EACH RISER/FLOORS.
16. ALL UNDERGROUND PIPING SHALL BE POLYPROPYLENE (PP-R and PP-RCT) PIPING AND USE THE ELECTROFUSION JOINING METHOD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



2 CHILLER PLANT - HVAC PIPING
1/8" = 1'-0"



3 MECHANICAL ROOM ISOMETRIC

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FIRST FLOOR PLAN - HVAC PIPING

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HUSEMAN MEP ENGINEERS 20 YEARS
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METAIRIE LA 70002 504.456.3119
Job No: 2401501 Designed By: ZL
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HVAC SEQUENCE OF OPERATION

THE NEW BUILDNG BAS SYSTEM SHALL INTEGRATE INTO EXISTING SIEMENS CENTRAL CAMPUS AUTOMATION SYSTEM AND SHALL ALLOW FOR COMPLETE SEAMLESS READ/WRITE CAPABILITY WITHOUT ANY DELAY FOR ALL NECESSARY SOFTWARE PROGRAMMING MODIFICATIONS AND CONTROL.

THE ENTIRE HVAC, AND PLUMBING CONTROL SYSTEM SHALL BE BY THE CONTROLS CONTRACTOR. ALL 120V WIRING TO ALL EQUIPMENT CONTROLLERS, DAMPERS, VALVES, ACTUATORS, TRANSFORMERS, PANELS SHALL BE FURNISHED BY THE CONTROLS CONTRACTOR HOWEVER DIVISION 26 PROVIDED LIMITED 120V CIRCUITRY FOR CONTROLS. ALL HVAC CONTROL SYSTEM WIRING CABLE THROUGHOUT THE FACILITY SHALL BE COLOR PINK FOR EASY IDENTIFICATION BY END USER IT MAINTENANCE PERSONNEL.

ALL EXPOSED POWER AND CONTROL WIRING SHALL BE IN CONDUIT. REFER TO ELECTRICAL SPECIFICATION FOR REQUIREMENTS . ALL CONTROLS SHALL HAVE FACTORY START-UP AND COMMISSIONING. REFER TO SECTION 23 0900 FOR ADDITIONAL REQUIREMENTS.

THE CONTROL CONTRACTOR SHALL INTERLOCK ANY AND ALL FIELD INSTALLED CONTROLS ASSOCIATED WITH DIVISION 23 INCLUDING, BUT NOT LIMITED TO, EQUIPMENT CONTROL PANELS, REMOTE PANELS, SENSORS, VAV TERMINAL UNITS, BLOWER COIL UNITS, FAN COIL UNITS, ETC.

THE CONTROL CONTRACTOR SHALL PROVIDE A COLOR CODED WIRING DIAGRAM AND A QUICK REFERENCE SETPOINT GUIDE AT EACH CONTROL PANEL. THIS SHALL BE LAMINATED TO THE INSIDE COVER OF THE DOOR.

THE CONTROL CONTRACTOR SHALL PROVIDE THE BALANCING CONTRACTOR ALL NECESSARY HARDWARE AND OR SOFTWARE FOR BALANCING.

THE CONTROL CONTRACTOR SHALL PROVIDE ALL NECESSARY GATEWAYS TO INTERFACE WITH ANY AND ALL EQUIPMENT AS SPECIFIED BELOW. COORDINATE WITH THE RESPECTIVE MANUFACTURE FOR PROPER AND RELIABLE INTEGRATION.

PROVIDE AN OPEN PROTOCOL WEB BASED BAS SYSTEM. PROVIDE A WORKSTATION WITH PRINTER. THE BAS WORKSTATION/HEAD END SHALL HAVE A UPS CAPABLE OF STANDBY POWER FOR THE ENTIRE COMPUTER SYSTEM (INCLUDING MONITOR) FOR 30 MINUTES. THE WORKSTATION SHALL BE CAPABLE OF HOLDING A MINIMUM OF 5 YEARS OF TRENDING DATA. THE NEW BAS SYSTEM SHALL BE INTEGRATED WITH THE EXISTING SIEMENS CENTRAL BUILDING AUTOMATION SYSTEM (CBAS) FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. PROVIDE NECESSARY COMPONENTS (HARDWARE, SOFTWARE, PROGRAMMING, ETC.) FOR FULL BAS INTEGRATION AND INTERFACE AND FOR REMOTE/OFF-SITE SECURE WEB ACCESS. NEW DDC SYSTEMS SHALL INTEGRATE WITH THE CBAS INTERFACE WITHOUT HAVING TO GO THROUGH A SEPARATE PLATFORM. THE HVAC CONTROL SYSTEM SHALL BE A WEB-BASED SYSTEM THAT OFFERS COMPATIBILITY THROUGH THE USE OF BACNET TECHNOLOGIES. FACILITY PERSONNEL SHALL BE TRAINED TO PROPERLY OPERATE THE CONTROL SYSTEM.

PROVIDE AN ADDITIONAL 10% AVAILABLE POINTS AT EACH LOCAL CONTROLLER, AND AT THE MAIN HEAD END.

ALL CONTROL SET-POINTS SHALL BE ADJUSTABLE. PROVIDE 24V CONTROL POWER LOOP FOR ALL VAV TERMINAL UNITS.
ALL CONTROL VALVES SHALL HAVE POSITIVE FEEDBACK.

THE HVAC CONTROL SYSTEM SHALL BE PROGRAMMED WITH OPTIMAL START CONTROL STRATEGIES. THE CONTROL ALGORITHM SHALL BE A FUNCTION OF THE DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SETPOINT AND THE AMOUNT OF TIME PRIOR TO SCHEDULED OCCUPANCY NEEDED TO SATISFY THE OCCUPIED MODE SETPOINT.

ALL THERMOSTATS THAT CONTROL BOTH HEATING AND COOLING SHALL PROVIDE A DEADBAND OF 5 DEGREES FAHRENHEIT WITHIN WHICH THE SUPPLY OF HEATING OR COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.

ALL MOTORIZED CONTROL VALVES SHALL BE MODULATING TYPE WITH POSITIVE FEEDBACK. CONTROL VALVES AND ACTUATORS SHALL BE RATED FOR THE DEADHEAD OF THE RESPECTIVE PUMP.

VAV AIR HANDLING UNITS WITH ELECTRIC PRE-HEAT AND/OR RE-HEAT COILS

SUPPLY FAN START/STOP: THE SUPPLY FAN WILL BE STARTED ACCORDING TO THE TIME SCHEDULE. IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN STARTED, THE CONTROL SEQUENCE WILL BE ENABLED.

INTERLOCK ALL EXHAUST FANS WITH THE RESPECTIVE AHU.

PRE-HEAT COIL: WHEN THE MIXED AIR TEMPERATURE SENSOR IS AT OR BELOW SET POINT (50° ADJ.), THE PREHEAT WILL ENERGIZE, THE COOLING COIL WILL DE-ENERGIZE AND THE SCR ELECTRIC PREHEAT WILL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SET POINT (50° ADJ.). THE ELECTRIC HEATER SHALL DE-ENERGIZE IF THE SUPPLY FAN IS OFF, OR THE PREHEAT MIXED AIR TEMPERATURE SENSOR HAS FAILED (ALARM THROUGH BAS ON FAILURE).

STATIC PRESSURE CONTROL: THE SUPPLY FAN WILL PRIMARILY MODULATE TO MAINTAIN THE LARGEST DEMAND FROM ALL OF THE VAV TERMINAL BOXES.

ADDITIONALLY THE SUPPLY FAN(S) VFD SHALL MODULATE TO MAINTAIN SUPPLY DUCT STATIC PRESSURE VIA SENSOR LOCATED APPROXIMATELY 2/3 DOWNSTREAM IN DUCTWORK AT THE STATIC PRESSURE SET POINT DETERMINED DURING AIR BALANCE. IF ANY VAV IS AT 100% DAMPER POSITION FOR GREATER THAN 60 MINUTES (ADJ.), THEN, INCREASE FAN STATIC PRESSURE BY .2"WG(ADJ)

DISCHARGE AIR CONTROL: THE COOLING VALVE WILL MODULATE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SET POINT (50°F ADJ.).

MIXED AIR LOW LIMIT OVERRIDE: THE MIXED AIR TEMPERATURE WILL OVERRIDE THE MINIMUM POSITION AND CLOSE THE OUTSIDE AIR DAMPER IF A TEMPERATURE IS SENSED BELOW THE SET POINT (38°F ADJ.). ALSO THE COOLING VALVE WILL OPEN FULLY, A CHILLED WATER PUMP WILL ENERGIZE AND THE CHILLED WATER EXCHANGER WILL BE LOCKED OUT. THE CHILLED WATER WILL CIRCULATE UNTIL THE MIXED AIR TEMPERATURE IS 5 DEGREES ABOVE SETPOINT.

OUTSIDE AIR DAMPER CONTROL: OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN DESIGN VENTILATION AIRFLOW. AS THE CO2 CONCENTRATION INCREASES ABOVE THE CO_2 RESET START VALUE, THE VENTILATION CONTROL MODULE SHALL MODIFY THE MINIMUM OUTDOOR AIR CFM SET POINT AND MODULATE OPEN THE OUTSIDE AIR DAMPER TO INCREASE THE AMOUNT OF OUTSIDE AIR ENTERING THE UNIT. THE SET POINT SHALL BE ADJUSTED UPWARD UNTIL THE CO_2 MAXIMUM RESET VALUE IS REACHED. THE MAXIMUM EFFECTIVE RESET SET POINT VALUE FOR OUTSIDE AIR ENTERING THE UNIT IS LIMITED TO THE MAXIMUM RATED AIR FLOW FOR THE UNIT. AS THE CO_2 CONCENTRATION DECREASES, THE EFFECTIVE RESET SET POINT VALUE SHALL BE ADJUSTED DOWNWARD TOWARD THE MINIMUM OUTDOOR AIR CFM SET POINT AND THE OUTSIDE AIR DAMPER/RETURN AIR DAMPER INDEPENDENTLY MODULATED AS REQUIRED TO MEET THE CO_2 DEMAND. (DAMPER IS NEVER CLOSED DURING THE OCCUPIED MODE). THE INDOOR CO_2 SHALL HAVE A RANGE BETWEEN 400-700PPM ABOVE NORMAL OUTDOOR CONDITIONS (ADJ.).

- CO_2 SENSOR LOCATIONS: MEETING ROOM, LA ROOM, ADULT / CHILDREN RETURN DUCTS.

NIGHT SETBACK/NIGHT SETUP: WHEN IN "UNOCCUPIED" MODE, THE UNIT WILL CYCLE AS NECESSARY TO MAINTAIN THE SHARED NIGHT SETBACK ZONE TEMPERATURE AT SET POINT. A DIFFERENTIAL PREVENTS THE UNIT FROM CYCLING EXCESSIVELY.

MORNING START-UP: DURING MORNING START-UP, WHILE BUILDING IS UNOCCUPIED, ALL OUTDOOR AIR DAMPERS SHALL BE MODULATED TO MINIMUM POSITION TO MAINTAIN POSITIVE BUILDING PRESSURIZATION. SEQUENCE SHALL BE PROGRAMMED BASED ON A TIME SCHEDULE.

SPACE HUMIDITY: THE SPACE HUMIDITY SENSOR(S) WILL BE USED TO MONITOR AND CONTROL THE HUMIDITY. UPON A RISE IN RH ABOVE 60% RH FOR CONTINUOUS 15 MINUTES, THE COOLING VALVE SHALL BE FORCED ON TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (55°F) AND THE REHEAT VALVE SHALL MODULATE SIMULTANEOUSLY TO MAINTAIN SPACE TEMPERATURE SET POINT. IF SPACE HUMIDITY REMAINS ABOVE 60%RH FOR A PERIOD OF 30 MINUTES, AN ALARM WILL BE GENERATED BY THE BAS AND THE CAUSE OF THE HIGH RH MUST BE CORRECTED IMMEDIATELY TO PREVENT BUILDING DAMAGE.

SHUTDOWN:
WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT WILL BE SET AS FOLLOWS:

- SUPPLY FAN WILL BE OFF AND VFD WILL BE COMMANDED TO 0%
- OUTSIDE AIR DAMPER WILL CLOSE, RETURN AIR DAMPER WILL OPEN AND COOLING VALVE WILL CLOSE (EXCEPT LOW LIMIT).

IF A FIRE ALARM SHUTDOWN CONTACT IS PROVIDED, THE SUPPLY FAN WILL BE SHUTDOWN WHEN TRIGGERED.

IF A HIGH STATIC PRESSURE SWITCH (ADJ. 1"-3" W.G.) LOCATED AFTER THE SUPPLY FAN SENSES A DISCHARGE PRESSURE THAT IS GREATER THAN SET POINT, THE SUPPLY FAN WILL BE SHUTDOWN.

AIR FLOW MEASURING STATIONS

EBTRON AIR FLOW MONITORING AND CONTROL SYSTEMS SHALL BE UTILIZED IN THE OUTSIDE AIR INTAKES OR DUCTWORK OF ALL AIR HANDLING UNITS AND BLOWER COIL UNITS. SUBSTITUTE AIR FLOW MONITORING AND CONTROL SYSTEMS SHALL, WITHOUT EXCEPTION, HAVE EQUIVALENT OR IMPROVED ACCURACY, REPEATABILITY, AND RELIABILITY, AT ALL OPERATING AIRFLOW RATES. ALSO THE INTERVALS BETWEEN FACTORY RECOMMENDED CALIBRATION, CHECK-OUT AND/OR ADJUSTMENTS SHALL BE EQUIVALENT OR MORE FREQUENT THAN THE EBTRON SYSTEM. EACH DEVICE SHALL HAVE THE MAXIMUM ALLOWABLE AMOUNT OF SENSORS TO ACCURATELY AND RELIABLY MEASURE AND INDICATE BOTH AIRFLOW RATE AND TEMPERATURE.

BUILDING EXHAUST FANS

INTERLOCK EXHAUST FAN(S) WITH THEIR RESPECTIVE AIR HANDLING UNITS. PROVIDE INTERLOCKS FOR MONITORING AND CONTROL.

AIR HANDLING UNITS SHALL OPERATE WHENEVER THE EXHAUST FAN(S) ARE OPERATING TO MAINTAIN POSITIVE BUILDING PRESSURIZATION.

ADJUSTABLE FREQUENCY DRIVES / ECM MOTORS

INTERLOCK ALL ADJUSTABLE FREQUENCY DRIVES (AFD) AND ECM MOTORS WITH THE BAS SYSTEM. BAS SHALL MONITOR ALL STATUS AND ALARMS FROM THE AFD MANUFACTURER.

VARIABLE PRIMARY CHILLED WATER SYSTEM

TWO (2) AIR COOLED CHILLERS WITH TWO (2) CHW PUMPS IN A VARIABLE PRIMARY PUMPING ARRANGEMENT

CHILLER CONTROL: THE CHILLED WATER SUPPLY TEMPERATURE SET POINT IS SET TO THE CHILLER PLANT DESIGN TEMPERATURE AND CAN BE MANUALLY ADJUSTED UPWARD BY THE OPERATOR. THE CHILLED WATER SYSTEM ENABLE POINT IS CONTROLLED EITHER MANUALLY OR BY THE OPERATOR OR BY A PROGRAM FUNCTION.

IF THE SYSTEM ENABLE POINT IS ON AND THERE IS A CALL FOR COOLING AND THE OUTSIDE AIR TEMPERATURE IS ABOVE 50°F (ADJ)

THE LEAD CHILLER START SEQUENCE IS ACTIVATED.

THE CHILLER START SEQUENCE FIRST ENERGIZES THE MODULATING CHILLER VALVE AND STARTS THE CHILLED WATER PUMP RESPECTIVELY.

AFTER A TIME DELAY (ADJ) AND FLOW IS PROVEN, THE LEAD CHILLER START/STOP POINT TURNS ON, THE LEAD CHILLER OPERATES UNDER ITS OPERATING AND SAFETY CONTROLS.

AFTER THE CHILLER IS COMMANDED, THE PROGRAM WAITS FOR 15 MINUTES (ADJ) BEFORE ISSUING ANY OTHER COMMANDS.

THE DDC SYSTEM MONITORS THE CHILLED WATER DIFFERENTIAL PRESSURE 2/3 OF THE WAY DOWN THE LONGEST PIPE RUN. THE SYSTEM SHALL MODULATE THE CHILLED WATER PUMP VFD TO MAINTAIN THE SYSTEM DIFFERENTIAL PRESSURE AS DETERMINED IN THE FIELD AT COMMISSIONING. THE CHILLER MANUFACTURER SHALL SET THE MINIMUM FLOW AT THE VFDS TO PREVENT LOW FLOW CUTOUT.

CHILLER SEQUENCING: STAGING ON THE SECOND CHILLER AND PUMPS IS BASED ON THE CHILLED WATER SUPPLY TEMPERATURE. IF THE CHILLED WATER SUPPLY TEMPERATURE IS ABOVE SET POINT (62°F) FOR MORE THAN 5 MINUTES (ADJ) AND THE BUILDING LOAD AS MEASURED BY THE BUILDING'S BTU METER AND DP, THEN THE NEXT CHILLER START SEQUENCE BEGINS.

UPON THE CALL FOR THE SECOND CHILLER, THE CHILLED WATER PUMP DP SETPOINT SHALL BE TEMPORARILY RAISED UP 5 PSI GREATER (ADDED PRESSURE TO BE CONFIRMED DURING COMMISSIONING/BALANCING). THE SECOND CHILLED PUMP SHALL ENERGIZE AND THE SECOND CHILLER MOTORIZED VALVE SHALL MODULATE OPEN. ONCE VALVE IS OPEN, THE SECOND CHILLER SHALL ENERGIZE. AFTER FIVE MINUTES THE CHILLED WATER PUMP DP SHALL ADJUST BACK TO NORMAL SETPOINT.

STAGING OFF THE SECOND CHILLER AND PUMPS IS BASED ON THE CHILLER PLANT DIFFERENTIAL TEMPERATURE (RETURN MINUS SUPPLY TEMPERATURE). A CHILLER STOP SEQUENCE IS STARTED, WHENEVER THE CHILLER PLANT DIFFERENTIAL TEMPERATURE IS LESS THAN A PROPORTIONED DESIGN DIFFERENTIAL TEMPERATURE FOR MORE THAN 5 MINUTES. THE CHILLER STOP SEQUENCE FIRST STOPS THE CHILLER. AFTER A TIME DELAY, THE CHILLED WATER PUMPS ARE STOPPED. THE CHILLED WATER SYSTEM CONTINUES TO OPERATE UNTIL EITHER THE CHILLED WATER SYSTEM ENABLE POINT IS OFF OR COOLING IS NO LONGER REQUIRED. WHEN THE CHILLED WATER SYSTEM SHUTS DOWN, ALL OPERATING CHILLERS AND PUMPS GO THROUGH A CHILLER STOP SEQUENCE. THE DDC SYSTEM USES CURRENT SWITCHES TO CONFIRM THE PUMPS ARE IN THE DESIRED STATE (I.E. ON OR OFF). IF THE LEAD CHILLER GOES INTO ALARM, THE SECOND CHILLER STARTS.

ALSO THE STAGING OF CHILLERS SHALL BE BY THE OVERALL EFFICIENCY OF THE ENTIRE CHILLED WATER PLANT'S KW METERS. THE STAGING SHALL BE OPTIMIZED TO PRODUCE THE LOWEST KW/TON REAL TIME DATA PRODUCED BY BAS KW PLANT METERING AND THE CHILLERS KW METERS.

AT ALL TIMES THE CONTROLS SHALL MAINTAIN MINIMUM FLOW REQUIREMENTS THROUGH ONE CHILLER OPERATION AND TWO CHILLER OPERATION. COORDINATE WITH MANUFACTURER AND ENGINEER FOR MINIMUM FLOW SETPOINTS.

CHILLER BYPASS VALVE: MODULATE CHILLED WATER BYPASS CONTROL VALVE TO MEET MINIMUM CHILLED WATER FLOW REQUIREMENTS AS SET BY THE CHILLER MANUFACTURER AND THE BALANCING CONTRACTOR. CONTROL SHALL BE BY A ΔP SENSOR ACROSS EACH CHILLER AND A FLOW METER AT THE BYPASS.

A CHILLED WATER BYPASS VALVE WILL MODULATE TO MAINTAIN DIFFERENTIAL PRESSURE SETPOINT IN ORDER TO MEET THE MINIMUM CHILLER FLOW REQUIREMENTS. THE CHILLER MANUFACTURER SHALL SET THE MINIMUM FLOW AT THE VFDS TO PREVENT LOW FLOW CUTOUT. THIS SHALL BE DETERMINED IN THE FIELD AT COMMISSIONING. AT ALL TIMES THE CONTROLS SHALL MAINTAIN MINIMUM FLOW REQUIREMENTS THROUGH ANY COMBINATION OF CHILLER SEQUENCING AND VARYING FLOW RATES. COORDINATE WITH MANUFACTURER AND ENGINEER FOR MINIMUM FLOW SETPOINTS

CHILLER MODULATING/SHUTOFF VALVE: MODULATE THE RESPECTIVE CHILLED WATER VALVE TO MEET THE MINIMUM AND MAXIMUM INDIVIDUAL CHILLED WATER FLOW REQUIREMENTS AS SET BY THE CHILLER MANUFACTURER AND THE BALANCING CONTRACTOR. CONTROL SHALL BE BY A ΔP SENSOR ACROSS EACH CHILLER

LEAD/LAG OF EQUIPMENT: THE CHILLERS AND PUMPS SHALL HAVE LEAD/LAG FUNCTION BASED ON ACTUAL RUN HOURS

CHILLED WATER SUPPLY TEMPERATURE SETPOINT: THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON OUTSIDE AIR TEMPERATURE.

AS OUTSIDE AIR TEMPERATURE DROPS FROM 70°F (ADJ.) TO 50°F (ADJ.) THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET UPWARDS BY ADDING FROM 1°F (ADJ.) TO 5°F (ADJ.) TO THE CURRENT SETPOINT.

FREEZE PROTECTION: WHEN OUTSIDE AIR TEMPERATURE IS BELOW 38°F (ADJ.), THE CHILLED WATER PUMP(S) SHALL BE ENERGIZED AND CONTROL VALVES SHALL BE POSITIONED TO PROVIDE MINIMUM FLOW THROUGH THE ENTIRE CHILLED WATER PIPING SYSTEM. CHILLERS SHALL REMAIN OFF UNLESS THERE IS A NEED FOR COOLING THE BUILDING.

ALARMS

THE BAS SHALL RECORD, STORE ANY AND ALL ALARMS. THIS SHALL NOT IMPAIR OR SLOWDOWN THE BAS. THE DATA SHALL BE EASILY ACCESSIBLE FOR REVIEW. PROVIDE GRAPHS AND RAW DATA OUTPUTS. GRAPHS SHALL BE ABLE TO SCALED. ALL DATA SHALL BE ABLE TO BE EXPORTED TO A SPREADSHEET OR TEXT DOCUMENT.

THE BAS SHALL ALARM FOR THE FOLLOWING CONDITIONS:

A. AIR HANDLING UNIT(S)
- DISCHARGE AIR TEMPERATURE 5°F ABOVE SET-POINT FOR LONGER 10 MINUTES.
- FAN ON/OFF STATUS FAILURE.
- DUCT STATIC PRESSURE 20% ABOVE SET-POINT FOR LONGER 10 MINUTES.
- RE-HEAT LOW LIMIT TEMPERATURE FOR LONGER THAN 2 MINUTES.
- HIGH LIMIT DUCT PRESSURE.
- INSUFFICIENT DUCT STATIC PRESSURE TO VALIDATE CORRELATION BETWEEN DAMPER POSITION AND AIRFLOW FOR VENTURI VALVES.
- SPACE HUMIDITY ABOVE 60% OR HIGHER FOR LONGER 10 MINUTES.
- AIRFLOW MEASURING STATION READINGS 15% BELOW SET-POINT.

B. EXHAUST FANS
- FAN ON/OFF STATUS FAILURE
- AIR DAMPER POSITION (0-100%).
- DUCT STATIC PRESSURE 20% ABOVE SETPOINT FOR LONGER 10 MINUTES.
- HIGH LIMIT DUCT PRESSURE.
- AIRFLOW MEASURING STATION READINGS 15% BELOW SETPOINT.

C. GENERAL/MISC.
- FAILURE OF NEW CONTROL DEVICES.
- PROVIDE AN ADDITIONAL 15% ALARM POINTS.

BAS PAGING

THE BAS SHALL SEND AN EITHER OR ALL OF THE FOLLOWING IN THE EVENT OF AN ALARM AND OR A PREPROGRAMMED SETPOINT

1. EMAIL
2. PAGING
3. TEXT MESSAGES
4. PHONE

GRAPHICAL USER INTERFACE

1. THE GUI SHALL HAVE INPUT/OUTPUT CAPABILITY FROM ANY OPERATOR STATION OR GUI INTERFACE FOR MONITORING AND CONTROLLING ALL OF THE POINTS.
2. THE OPERATOR SHALL BE ABLE TO MONITOR AND ACCESS ALL POINTS BY MEANS OF CLEAR CONCISE ENGLISH NAMES WITHOUT HAVING TO UNDERSTAND OR REFERENCE HARDWARE POINT LOCATIONS OR CONTROLLER PROGRAMS.
3. ALL DEVICES SHALL HAVE A UNIQUE TAG AS DESIGNATED BY THE CONTRACT DOCUMENTS.
4. PROVIDE LOCAL GRAPHICAL USER INTERFACE (GUI) FOR ALL AHU'S, BOILERS, CHILLERS, BLOWER COILS, PUMPS, ETC.
5. PROVIDE A SEPARATE SUBMITTAL FOR GUI AFTER THE CONTROL SUBMITTAL HAS BEEN SUBMITTED AND REVIEWED BY THE ENGINEER.
6. REFER TO HVAC CONTROLS AND INSTRUMENT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

DATA/TREND LOGGING

THE BAS SHALL RECORD, STORE AND PROVIDE TREND LOGGING FOR ANY AND ALL POINTS AS STATED ABOVE. TRENDING SHALL NOT IMPAIR OR SLOWDOWN THE BAS. TRENDING TIMES SHALL BE FULLY ADJUSTABLE AND SHALL BE EASILY ACCESSIBLE FOR REVIEW OF DATA. PROVIDE GRAPHS AND RAW DATA OUTPUTS. GRAPHS SHALL BE ABLE TO BE SCALED. ALL DATA SHALL BE ABLE TO BE EXPORTED TO A SPREADSHEET OR TEXT DOCUMENT.

THE BAS SHALL RECORD, STORE AND PROVIDE TREND LOGGING FOR THE FOLLOWING ITEMS:

A. AIR HANDLING EQUIPMENT (AHUs, VAV TERMINAL UNITS, ETC.)

SUPPLY AIR TEMPERATURES (AS APPLICABLE)
ROOM TEMPERATURE (AS APPLICABLE)
FAN ON/OFF STATUS
CHILLED WATER VALVE POSITION
OUTSIDE AIR DAMPER POSITION
DUCT STATIC PRESSURE
HIGH LIMIT DUCT PRESSURE
SPACE HUMIDITY
OUTSIDE AIR TEMPERATURE
OUTDOOR AIRFLOW - AIRFLOW MEASURING STATION (AS APPLICABLE)

B. EXHAUST FANS

FAN ON/OFF STATUS

C. GENERAL/MISC.

RECORD ANY AND ALL FAULT AND ALARMS
PROVIDE HARD DRIVE FOR AT LEAST 2 FULL YEARS OF DATA STORAGE.
PROVIDE AN ADDITIONAL 15% FOR TRENDING POINTS.

D. CHILLED WATER FLOW

RECORD OVERALL WATER FLOW AS MONTHLY REPORT IN EXCEL SPREADSHEET.

VAV TERMINAL UNIT(S) WITH ELECTRIC REHEAT

DISCHARGE AIR TEMP SENSOR: A DISCHARGE AIR TEMP SENSOR IS PROVIDED ON EACH BOX FOR MONITORING AND CONTROL PURPOSES.

OCCUPIED MODE: WHEN THE ZONE TEMPERATURE IS BETWEEN THE OCCUPIED HEATING AND COOLING SETPOINTS (INSIDE OF THE BIAS), THE PRIMARY AIR DAMPER WILL BE AT THE MINIMUM CFM AND THE REHEAT COIL SHALL BE FULLY OFF. ON A RISE IN ZONE TEMPERATURE ABOVE THE COOLING SETPOINT, THE PRIMARY AIR DAMPER SHALL INCREASE THE CFM AND THE REHEAT COIL REMAINS FULLY OFF. ON A DROP IN ZONE TEMPERATURE BELOW THE HEATING SETPOINT, THE REHEAT CIOL STAGES ON AND THE DAMPER IS CONTROLLED TO RPVIDE MINIMUM CFM.

UNOCCUPIED (NIGHT SETBACK) MODE: WHEN THE AIR HANDLING UNIT SHUTS DOWN, ALL BOX CONTROLLERS ARE INDEXED TO UNOCCUPIED MODE. WHEN THE ZONE TEMPERATURE IS BETWEEN THE UNOCCUPIED HEATING AND COOLING SETPOINTS (INSIDE OF THE BIAS), THE PRIMARY AIR DAMPER SHALL BE AT THE MINIMUM CFM, AND THE REHEAT COIL SHALL BE FULLY OFF. ON A RISE IN ZONE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SETPOINT, THE PRIMARY AIR DAMPER SHALL INCREASE THE CFM (IF AVAILABLE), AND THE REHEAT COIL REMAINS FULLY OFF. ON A DROP IN ZONE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, THE REHEAT COILD STAGES ON, AND THE DAMPER IS CONTROLLED TO PROVIDE A MINIMUM CFM.

VAV TERMINALS SHALL PROVIDE POSITIVE FEEDBACK OF DAMPER POSITION THROUGH THE BAS SYSTEM. PROVIDE DAMPER POSITION POLLING CAPABILITIES THROUGH THE BAS SYTEM FOR MONITORING AND CONTROL.

HYDRONIC COOLING ONLY FAN COIL UNIT

SUPPLY FAN START/STOP: THE SUPPLY FAN WILL BE STARTED ACCORDING TO THE TIME SCHEDULE AND SPACE TEMPERATURE SET POINT. IF THE SUPPLY FAN STATUS DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN STARTED, THE CONTROL SEQUENCE WILL BE ENABLED.

OCCUPIED MODE: WHEN THE ZONE TEMPEARTURE IS BELOW THE COOLING SET POINT, THE CHILLED WATER VAVE IS DE-ENERGIZED. ON A RISE IN ZONE TEMPERATURE ABOVE THE COOLING SETPOINT, THE CHILLED WATER VALVE WILL MODULATE TO MAINTAIN SPACE TEMPERATRURE SET POINT (ADJ.)

SHUTDOWN:

WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY, THE UNIT WILL BE SET AS FOLLOWS:

- SUPPLY FAN WILL BE OFF.
- CHILLED WATER VALVE IS DE-ENERGIZED.

PROVIDE FLOAT SWITCH IN MAIN COOLING COIL DRAIN PAN. INTERLOCK WITH UNIT SHUTDOWN.

HEAT TRACE SYSTEM SPECIFICATIONS FOR FREEZER PROTECTION

GENERAL:

1. FURNISH AND INSTALL COMPLETE HEAT TRACE SYSTEM FOR THE FREEZE PROTECTION OF HYDRONIC PIPING EXPOSED TO AMBIENT CONDITIONS. SYSTEM SHALL CONSIST OF A SELF-REGULATING HEATING CABLE, CONNECTION KITS, COMPONENTS AND ACCESSORIES AS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM.
2. BASIS OF DESIGN MANUFACTURER: SUBJECT TO THE COMPLIANCE WITH REQUIREMENTS, PROVIDE RAYCHEM HEAT TRACING PRODUCTS OF NVENT THERMAL MANAGEMENT, LLC, REDWOOD CITY 94063. HEATING CABLES SHALL BE RAYCHEM XL-TRACE, SELF-REGULATING HEATING CABLES SPECIFICALLY DESIGNED FOR THE INTENDED APPLICATION. TESTED AND APPROVED TO UL 515, CSA 22.2 NO 130-03 AND IEEE 515.1 REQUIREMENTS. SUBMIT REQUEST FOR SUBSTITUTIONS IN ACCORDANCE WITH INSTRUCTIONS TO BIDDERS AND DIVISION 01 GENERAL REQUIREMENTS.
3. PROVIDE ENGINEERED ISOMETRIC HEAT TRACING CIRCUIT LAYOUT DRAWINGS INDICATING POWER CONNECTIONS, TEES, END SEALS, CABLE LENGTH AND CIRCUIT CABLE LENGTH.
4. PROVIDE FREEZE PROTECTION TO MINIMUM OF 40°F AND INSULATE PIPING AS PER MANUFACTURER'S RECOMMENDATIONS AND AS SPECIFIED.

APPLICATION REQUIREMENTS:

1. THE HEATING CABLE SHALL BE RATED FOR 5 WATTS PER LINEAR FOOT.
2. PROVIDE 20 AMP NOMINAL GROUND-FAULT INTERRUPTION (GFI) DEVICES AS NECESSARY.
3. PROVIDE 120 VOLTS, SINGLE PHASE POWER
4. THE HEATING CABLE SHALL HAVE A POLYOLEFIN JACKET.
5. SELF-REGULATING PIPE FREEZE PROTECTION HEATING CABLE SHALL BE PERMANENTLY SECURED TO INSULATED PIPING.
6. THE POWER CONNECTION AND END SEAL ARE MADE IN UL LISTED AND CSA CERTIFIED JUNCTION BOXES ABOVE GRADE.
7. THE HEATING CABLE SHALL BE PROTECTED FROM THE PIPE TO THE POWER CONNECTION BOX IN UL LISTED AND CSA CERTIFIED WATER-SEALED CONDUIT (MINIMUN 3/4" DIAMETER) SUITABLE FOR THE APPLICATION.
8. COORDINATE HEAT TRACE CABLE INSTALLATION WITH INSULATION CONTRACTOR.
9. CONTRACTOR SHALL FURNISH AND INSTALL "ELECTRIC HEAT TRACED" LABELS ON EXTERIOR OF PIPE INSULATION EVERY TEN (10) FEET ON OPPOSITE SIDES OF THE PIPE FOR THE ENTIRE LENGTH OF HEAT TRACED PIPING. ALL SPLICES, TEES, CROSSES AND POWER CONNECTIONS SHALL BE LABELED ON THE EXTERIOR OF THE PIPE INSULATION INDICATING THE PRESENCE OF A CONNECTION KIT.

QUALITY ASSURANCE:

1. ALL SYSTEM COMPONENTS SHALL BE SOURCED FROM A SINGLE MANUFACTURER, UNDER NO CIRCUMSTANCES SHALL ANY COMPONENTS BE INSTALLED OTHER THAN THOSE SUPPLIED BY THE CABLE MANUFACTURER, TO ENSURE SYSTEM INTEGRITY AND TO MEET WARRANTY REQUIREMENTS.
2. MANUFACTURER TO SHOW MINIMUM OF FORTY (40) YEARS OF EXPERIENCE IN MANUFACTURING ELECTRIC SELF-REGULATING HEATING CABLES AND COMPONENTS. MANUFACTURER WILL BE ISO-9001 REGISTERED. MANUFACTURER TO PROVIDE PRODUCTS CONSISTENT WITH UL 515, CSA 22.2 NO 130-03 AND IEEE 515.1 REQUIREMENTS. THE SELF-REGULATING HEATING CABLE SHALL BE QUALIFIED AND TESTED TO DEMONSTRATE A USEFUL LIFETIME IN EXCESS OF 20 YEARS.
3. SYSTEM INSTALLER SHALL HAVE COMPLETE UNDERSTANDING OF PRODUCT AND PRODUCT LITERATURE FROM MANUFACTURER OR AUTHORIZED REPRESENTAITVE PRIOR TO INSTALLATION. ELECTRICAL CONNECTIONS SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.

FIELD QUALITY CONTROL:

1. INITIAL START-UP AND FIELD TESTING (COMMISSIONING) OF THE HEAT TRACING SYSTEM SHALL BE PERFORMED BY FACTORY TECHNICIAN OR FACTORY CERTIFIED REPRESENTATIVE.
2. THE SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE TO THE MANUFACTURER'S INSTALLATION AND OPERATION MANUAL. PROVIDE COMMISSIONING REPORT IN SUBMITTALS PACKAGE TO OWNER.

CONTROL CONTRACTOR NOTES:

A CONTROL CONTRACTOR SPECIALIZING IN CONTROLS AS THE MAIN BUSINESS AND WITH 5 YEARS EXPERIENCE ON SIMILAR PROJECTS SHALL PROVIDE THE CONTROL SYSTEM. THE CONTROLS SHALL BE SUPPLIED AND INSTALLED BY THE CONTROL CONTRACTOR. MOST OF THE CONTROLS ARE FACTORY INSTALLED BUT THOSE SHIPPED LOOSE BY THE HVAC EQUIPMENT MANUFACTURERS SHALL BE INSTALLED AND WIRED BY THE CONTROL CONTRACTOR.

ALL MISCELLANEOUS RELAYS, SWITCHES, TRANSFORMERS, PANELS, WIRING AND CONDUIT NECESSARY FOR A COMPLETE OPERATING CONTROL SYSTEM AND TO IMPLEMENT THE INDICATED CONTROL SEQUENCE SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.

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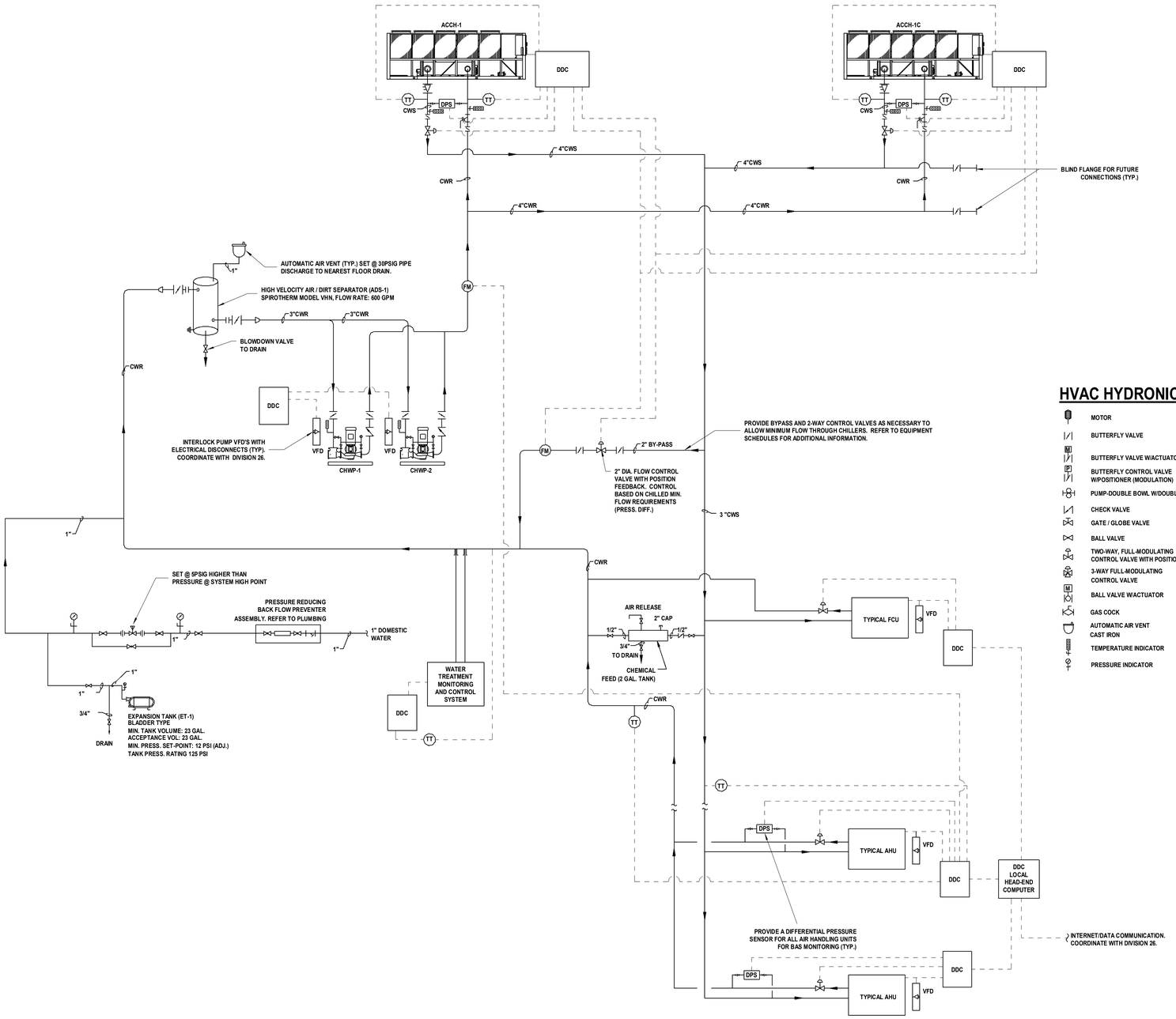

1 HVAC CONTROLS SCHEMATIC DIAGRAM - AIR COOLED CHILLED WATER SYSTEM
1/8" = 1'-0"

HVAC CONTROL SCHEMATIC SYMBOL LEGEND:

AFMS	AIRFLOW MEASURING STATION
BTUM-CHW	BTU METER - CHILLED WATER
CC	COOLING COIL
CW - FM	CHILLED WATER FLOW METER
CW - VLV	CHILLED WATER CONTROL VALVE
DA - T	DISCHARGE AIR TEMPERATURE SENSOR
DPT - 1,2	DIFFERENTIAL PRESSURE SENSOR
EDH	ELECTRIC DUCT HEATER
ES	END-SWITCH
FPS - A	FILTER PRESSURE SENSOR - ALARM
HC	HEATING COIL
HMI	HUMAN MACHINE INTERFACE
HSP - A	HIGH PRESSURE SENSOR - ALARM
HW - VLV	HOT WATER CONTROL VAVLE
LT - A	LOW TEMPERATURE SENSOR SET @ 38°F(ADJ.)
LPS-VLV	LOW PRESSURE STEAM CONTROL VALVE
MA - T	MIXED AIR TEMPERATURE SENSOR
NC	NORMALLY CLOSED VALVE/DAMPER
NO	NORMALLY OPEN VALVE/DAMPER
OA - DPR	OUTSIDE AIR MOTORIZED DAMPER
OA - SD	OUTSIDE AIR SMOKE DETECTOR
OA-T	OUTSIDE AIR TEMPERATURE
PH - S1	ELECTRIC RESISTANCE PREHEATER
PR - DPR	PRESSURE RELIEF MOTORIZED DAMPER
RA	RETURN AIR
RA - DPR	RETURN AIR MOTORIZED DAMPER
RA - SD	RETURN AIR DUCT SMOKE DETECTOR
SCR	ELECTRIC RESISTANCE HEATER SCR TYPE
SF - C	SUPPLY FAN MOTOR CURRENT
SF - SS	SUPPLY FAN DRIVER START/STOP
SF - VFD	SUPPLY FAN VARIABLE FREQUENCY DRIVE
TE/HE	TEMPERATURE & HUMIDITY SENSOR
ZN - H	ZONE HUMIDITY SENSOR
ZN - T	ZONE TEMPERATURE SENSOR

HVAC HYDRONIC SYSTEM SYMBOL LEGEND:

- MOTOR
- BUTTERFLY VALVE
- M — BUTTERFLY VALVE W/ACTUATOR (2 POSITION)
- P — BUTTERFLY CONTROL VALVE W/POSITIONER (MODULATION)
- PUMP-DOUBLE BOWL W/DOUBLE MOTOR
- CHECK VALVE
- GATE / GLOBE VALVE
- BALL VALVE
- TWO-WAY, FULL-MODULATING CONTROL VALVE WITH POSITION FEEDBACK
- 3-WAY FULL-MODULATING CONTROL VALVE
- M — BALL VALVE W/ACTUATOR
- GAS COCK
- AUTOMATIC AIR VENT CAST IRON
- TEMPERATURE INDICATOR
- PRESSURE INDICATOR
- " Y " STRAINER
- Y-STRAINER W/FULL-PORT BALL VALVE DRAIN
- AUTO-FLOW LIMITING VALVE
- PRESSURE REDUCING VALVE WITH CHECK
- RELIEF VALVE
- TS/OA — OUTSIDE AIR TEMP. SENSOR
- DPS — DIFFERENTIAL PRESSURE SENSOR
- FLEXIBLE CONNECTION
- PLUG VALVE (BALANCE)
- CS — CONDUCTIVITY SENSOR
- M — WATER METER
- R — GAS REGULATOR
- FM — INLINE ELECTROMAGNETIC INDUCTION FLOW METER
- TS — TEMPERATURE TRANSMITTER
- FS — FLOW SWITCH UNLESS INTERNAL TO BOILER
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- PCS — PRIMARY CHILLED WATER SUPPLY
- PCR — PRIMARY CHILLED WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN
- TIE-IN SYMBOL
- PT — PRESSURE TRANSMITTER
- P/T PLUG
- TRIPLE DUTY VALVE
- REDUCER, CONCENTRIC
- VARIABLE FREQUENCY DRIVE

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HVAC CONTROLS

SHEET NUMBER: M602

HUSEMAN MEP ENGINEERS 20 YEARS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By ZL
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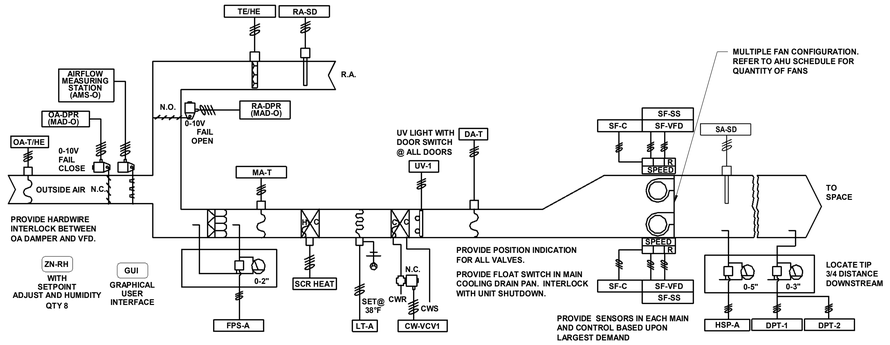
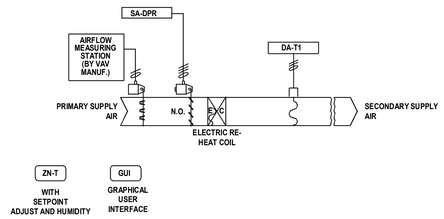


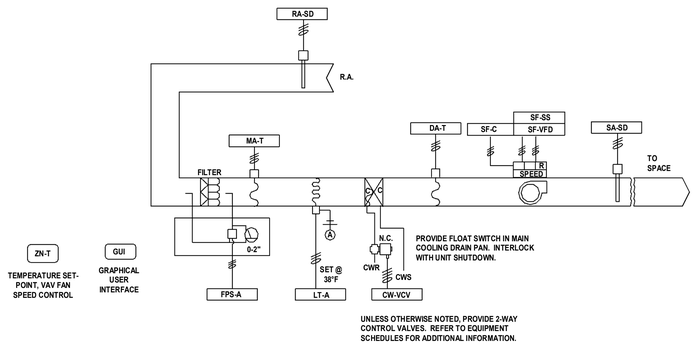
1 HVAC CONTROL SCHEMATIC DIAGRAM - AHU WITH FAN ARRAY AND WITH PRE-HEAT

1/8" = 1'-0"



2 HVAC CONTROL SCHEMATIC DIAGRAM - VAV TERMINAL UNIT (ERH)

1/8" = 1'-0"



3 HVAC CONTROLS SCHEMATIC DIAGRAM - FCU COOLING ONLY

1/8" = 1'-0"

HVAC CONTROL SCHEMATIC SYMBOL LEGEND:

AFMS	AIRFLOW MEASURING STATION
BTUM-CHW	BTU METER - CHILLED WATER
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RA	RETURN AIR
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RA - SD	RETURN AIR DUCT SMOKE DETECTOR
SCR	ELECTRIC RESISTANCE HEATER SCR TYPE
SF - C	SUPPLY FAN MOTOR CURRENT
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TE/HE	TEMPERATURE & HUMIDITY SENSOR
ZN - H	ZONE HUMIDITY SENSOR
ZN - T	ZONE TEMPERATURE SENSOR

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HVAC CONTROLS

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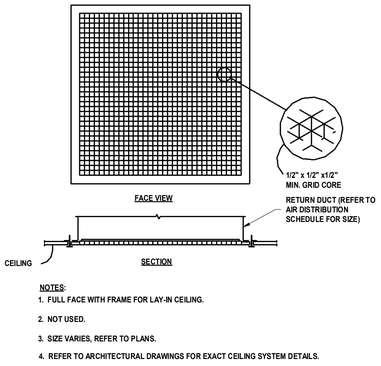
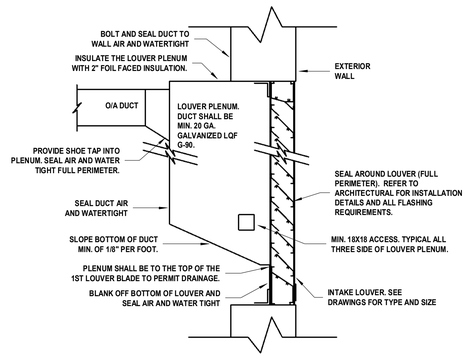
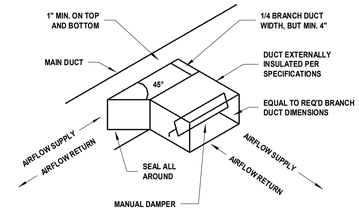


NOTES:
1. FULL FACE WITH FRAME FOR LAY-IN CEILING.
2. NOT USED.
3. SIZE VARIES, REFER TO PLANS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING SYSTEM DETAILS.

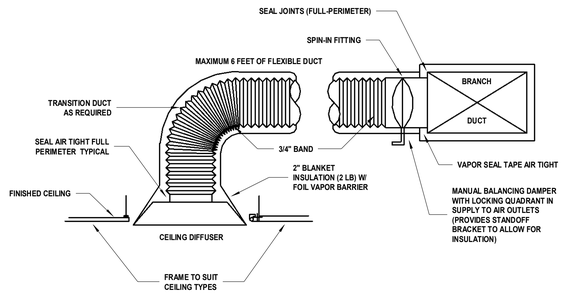
1 TYPICAL DETAIL - RETURN AIR DIFFUSER (EGG CRATE)
NOT TO SCALE



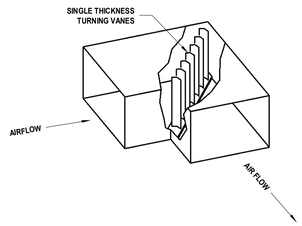
2 TYPICAL DETAIL - AIR INTAKE LOUVER
NOT TO SCALE



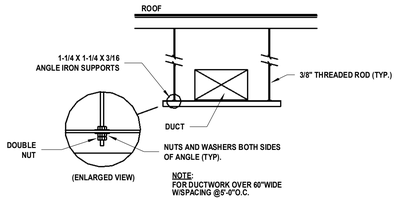
3 TYPICAL DETAIL - BRANCH TAKE-OFF
NOT TO SCALE



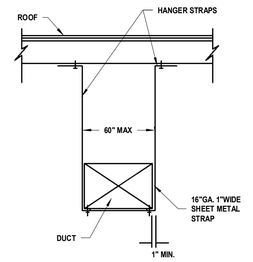
4 TYPICAL DETAIL - DIFFUSER, GRILLE, REGISTER DUCT CONNECTION
NOT TO SCALE



5 TYPICAL DETAIL - DUCT ELBOW
NOT TO SCALE

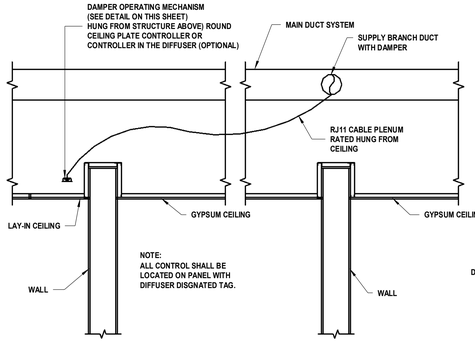


6 TYPICAL DETAIL - DUCT SUPPORT (ANGLE)
NOT TO SCALE

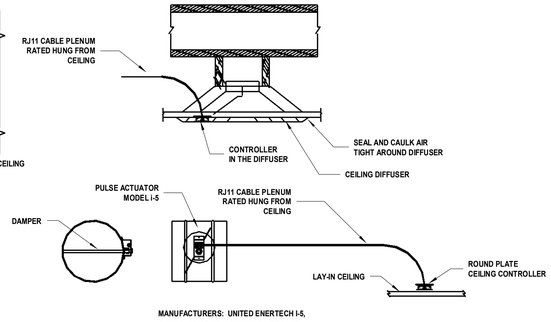


7 TYPICAL DETAIL - DUCT SUPPORT (STRAP)
NOT TO SCALE

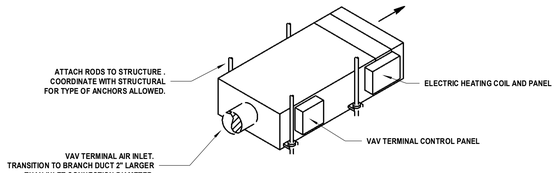
1. THE REMOTE CONTROL SYSTEM SHALL PROVIDE MEANS OF BALANCING AIRFLOW IN DUCTWORK ABOVE INACCESSIBLE CEILINGS OR PLENUMS.
2. IN THESE AREAS THE CONTRACTOR SHALL FURNISH AND INSTALL REMOTE DAMPER STICKS ON BRANCH TAKE-OFF WITH PULSE ACTUATOR CONTROLLED BY DC VOLTAGE.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL REMOTE PLATE OPTIONS OF MODEL J50 TERMINAL POINT. COLOR SHALL BE WHITE UNLESS OTHERWISE SPECIFIED.
4. THE CONTRACTOR SHALL CONNECT RJ-11 PLENUM RATED CABLE FROM THE DAMPER TO THE FEMALE OUTLET. CABLES CAPABLE OF LENGTHS UP TO 1000 FEET.
5. THE BALANCING SHALL BE ACHIEVED WITH A HAND HELD POWER PACK, UTILIZING AN RJ-11 CONNECTOR. CONTRACTOR SHALL TURN OVER THE HAND HELD POWER PACKS TO BUILDING ENGINEER AFTER BALANCING IS COMPLETE.
6. THE POWER/BALANCE SYSTEM SHALL BE MANUFACTURED BY UNITED ENERTECH CORPORATION, RUSKIN OR GREENHECK.
7. REMOTE DAMPER BALANCING CONTROLLERS TO THE DIFFUSERS (LINEAR AND 2X2 IN THE SHEET ROCK CEILING) SHALL BE PROVIDED AND INSTALL BY SHEET METAL CONTRACTOR, HOWEVER HVAC CONTRACTOR HAS AN OPTION TO PROVIDE AND INSTALL.
8. PROVIDE A BOX FOR THE HAND HELD CONTROLLER IN ADJACENT ACCESSIBLE CEILING (LAY-IN).



8 TYPICAL DETAIL - REMOTE BALANCING DAMPER (INACCESSIBLE CEILINGS)
NOT TO SCALE



MANUFACTURERS: UNITED ENERTECH I-5,
RUSKIN ZPD25 OR GREENHECK RBDR-50



NOTES:
1. MINIMUM STRAIGHT DUCT REQUIRED BEFORE THE VAV SHALL BE 3 DUCT DIAMETERS.
2. DO NOT BLOCK MAINTENANCE ACCESS TO CONTROL AND ELECTRIC HEAT PANELS.
3. COORDINATE HAND LOCATION OF CONTROL AND ELECTRIC HEAT PANELS

9 TYPICAL DETAIL - VAV TERMIANL W/ ELECTRIC RE-HEAT COIL
NOT TO SCALE

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HVAC DETAILS

SHEET NUMBER
M701

HUSEMAN MEP ENGINEERS 20 YEARS
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METAIRIE LA 70002 504.456.3119

Job No: 2401501 Designed By: ZL
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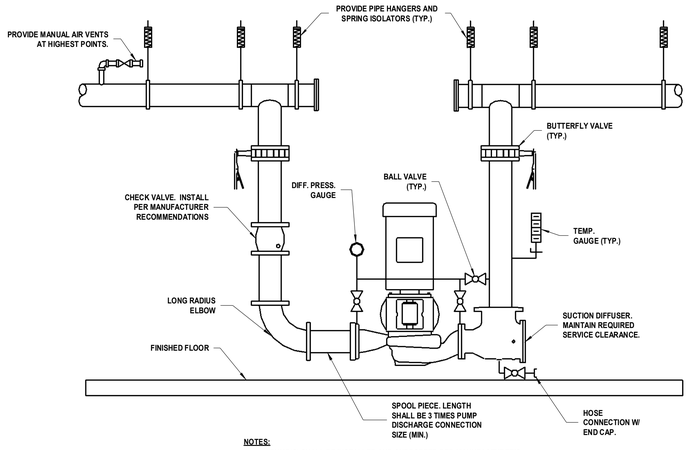
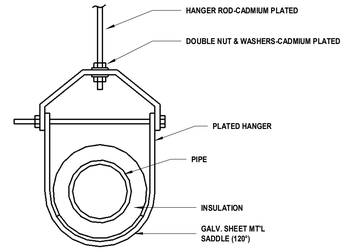


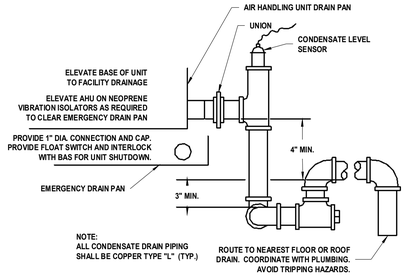
NOTES:

1. PUMP(S) SHALL BE INSTALLED AND SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS. PUMP MAY BE PIPE MOUNTED AND SUPPORTED IF ALLOWED BY THE EQUIPMENT MANUFACTURER. IF PUMP IS TO BE SUPPORTED FROM FINISHED FLOOR, WITH MANUFACTURER'S BASE MOUNT, PROVIDE CONCRETE INERTIA BASE WITH SPRING ISOLATORS.

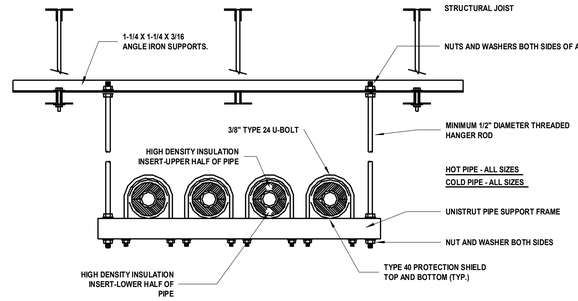
1 TYPICAL DETAIL - CENTRIFUGAL PUMP (VERTICAL IN-LINE)
NOT TO SCALE



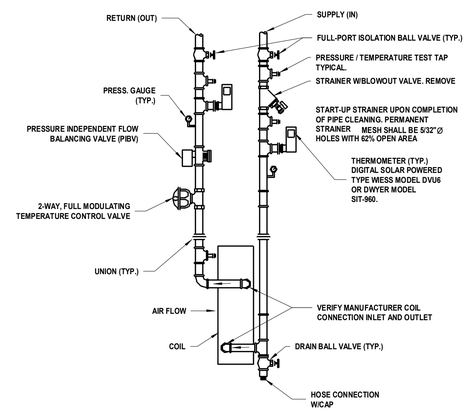
2 TYPICAL DETAIL - CHILLED WATER PIPE HANGER SUPPORT (6" DIA. AND SMALLER)
NOT TO SCALE



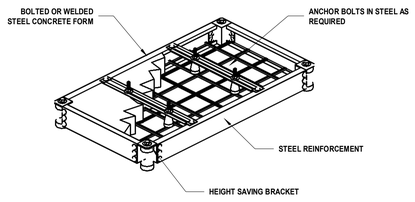
3 TYPICAL DETAIL - CONDENSATE DRAIN
NOT TO SCALE



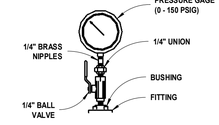
5 TYPICAL DETAIL - HORIZONTAL PIPE SUPPORT
NOT TO SCALE



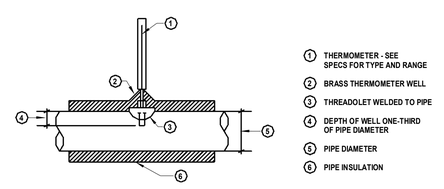
6 TYPICAL DETAIL - HYDRONIC COOLING OR HEATING SINGLE COIL PIPING
NOT TO SCALE



4 TYPICAL DETAIL - EQUIPMENT SUPPORT INERTIA PAD
NOT TO SCALE

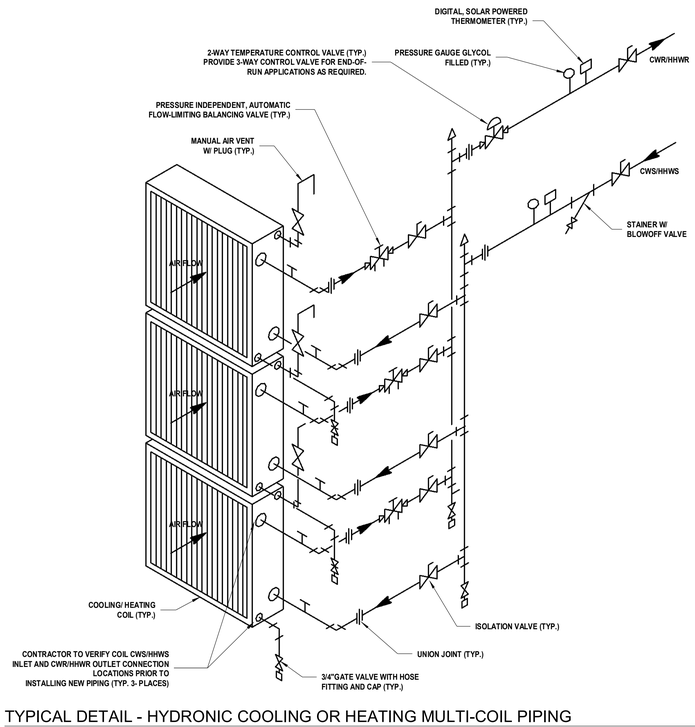


8 TYPICAL DETAIL - PRESSURE GAUGE
NOT TO SCALE

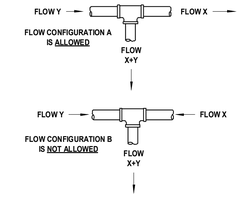


1. THERMOMETER - SEE SPECS FOR TYPE AND RANGE
2. BRASS THERMOMETER WELL
3. THREADOLET WELDED TO PIPE
4. DEPTH OF WELL ONE-THIRD OF PIPE DIAMETER
5. PIPE DIAMETER
6. PIPE INSULATION

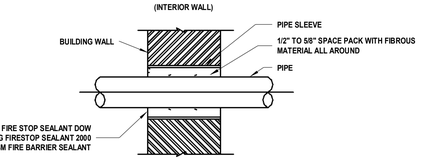
10 TYPICAL DETAIL - TEMPERATURE GAUGE
NOT TO SCALE



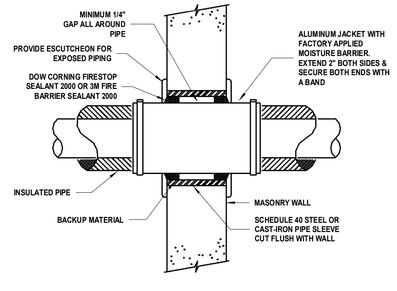
7 TYPICAL DETAIL - HYDRONIC COOLING OR HEATING MULTI-COIL PIPING
NOT TO SCALE



9 TYPICAL DETAIL - TEE PIPING FLOW CONFIGURATION
NOT TO SCALE



13 TYPICAL DETAIL - WALL SLEEVE PIPE PENETRATION (INTERIOR)
NOT TO SCALE



11 TYPICAL DETAIL - WALL SLEEVE INSULATED PIPE PENETRATION (EXTERIOR)
NOT TO SCALE

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HVAC DETAILS

SHEET NUMBER: M702

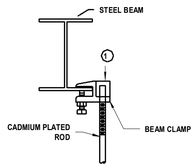
HUSEMAN MEP ENGINEERS 20 YEARS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By ZL
Drawn By ZL Checked By JL

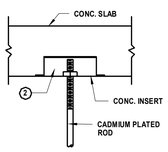
HANGER SCHEDULE			
COPPER TUBING	**SUPPORT SPACING**	**ROD SIZE**	**NOTES**
3/4" AND SMALLER	5'-0" O.C.	3/8"	
1"	6'-0" O.C.	3/8"	
1 1/4"	7'-0" O.C.	3/8"	
1 1/2"-2"	8'-0" O.C.	3/8"	
2 1/2"	9'-0" C.O.	1/2"	
3"	10'-0" O.C.	1/2"	
4"	12'-0" O.C.	1/2"	
STEEL PIPE			
1 1/4" AND SMALLER	7'-0" O.C.	3/8"	
1 1/2"-2 1/2"	9'-0" C.O.	3/8"	
3"	12'-0" O.C.	1/2"	
4"	14-0" O.C.	5/8"	
5"	16-0" O.C.	5/8"	
6"	17-0" O.C.	3/4"	
8"-10"	19'-0" O.C.	7/8"	
CAST IRON PIPE			
4" AND SMALLER	5'-0" O.C. & AT EVERY JOINT	3/8"	
5" & 6"	5'-0" O.C. & AT EVERY JOINT	1/2"	10FT. MAX SPACING: ONE PIPE SECTION
8" AND LARGE	5'-0" O.C. & AT EVERY JOINT	3/4"	AT JOINTS AND AT CHANGE OF DIRECTION AND BRANCH CONNECTION
DUCTILE IRON PIPE			
20FT. MAX SPACING: MIN OF ONE (1) HANGER PER PIPE SECTION CLOSE TO THE JOINT BEHIND THE BELL AND AT CHANGE OF DIRECTION AND BRANCH CONNECTIONS.			
INSERT DESCRIPTION			
(1) ELCEN MOD. #239L BEAM CLAMP	SEE DETAIL A,D		
(2) ELCEN MOD. #86 CONC. INSERT	SEE DETAIL B		
(3) HILTI QUICK BOLT OR EQUAL	SEE DETAIL F,G		

NOTES:

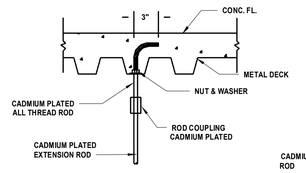
1. RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS WITH 3/8 IN. MINIMUM DIAMETER.
2. HANGERS ON INSULATED SYSTEMS SHALL INCORPORATE PROTECTION SADDLES OR SHIELDS OR SHALL BE CLAMPED OR WELDED TO THE PIPE AND PROJECT THROUGH THE INSULATION TO PROVIDE EXTERNAL ATTACHMENT.



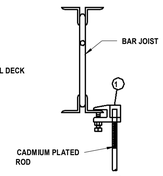
DETAIL A



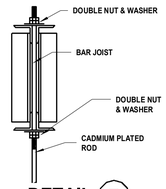
DETAIL B



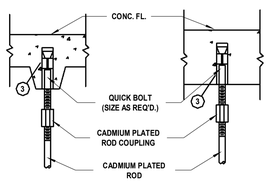
DETAIL C



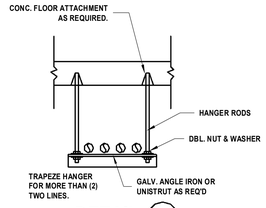
DETAIL D



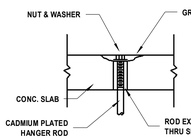
DETAIL E



DETAIL F DETAIL G



DETAIL H



DETAIL I

TYPES:

- (A) STEEL CONSTRUCTION
- (B) STRUCT. CONC. CONST.
- (C) STEEL W/METAL DECK
- (D) BAR JOIST
- (E) BAR JOIST
- (F) METAL DECK & CONC.
- (G) CONC. CONST.
- (H) TYPICAL TRAPEZE
- (I) CONC. CONST.

TYPICAL PIPE / EQUIPMENT SUPPORT NOTES:

ALL VERTICAL RISERS INCLUDING CHILLED WATER, HEATING HOT WATER, DOMESTIC HOT AND COLD WATER, DOMESTIC HOT WATER RETURN, STEAM, STEAM CONDENSATE, ICE BUILDER WATER, CONDENSER WATER, ETC SHALL BE SUPPORTED BY SPRING ISOLATORS DESIGNED TO SUPPORT THE RISER FILLED WITH WATER, IF IT IS A WATER LINE. ASSIGNED LOADS MUST BE WITHIN THE BUILDING DESIGN LIMITS AT THE SUPPORT POINTS. NEUTRAL CENTRAL RESILIENT ANCHORS CLOSE TO THE CENTER OF THE RUN SHALL DIRECT MOVEMENT UP AND DOWN. THE ANCHORS SHALL BE CAPABLE OF HOLDING AN UPWARD FORCE EQUAL TO THE WATER WEIGHT WHEN THE SYSTEM IS DRAINED. IF ONE LEVEL CANNOT ACCOMMODATE THIS FORCE, ANCHORS CAN BE LOCATED ON 2 OR 3 ADJACENT FLOORS. RESILIENT GUIDES SHALL BE SPACED AND SIZED PROPERLY DEPENDING ON THE PIPE DIAMETER. SUBMITTALS MUST INCLUDE THE INITIAL LOAD, INITIAL DEFLECTION, CHANGE IN DEFLECTION, FINAL LOAD AND CHANGE IN LOAD AT ALL SPRING AND ANCHOR SUPPORT LOCATIONS, AS WELL AS GUIDE SPACING. THE INITIAL SPRING DEFLECTION SHALL BE A MINIMUM OF 0.75" OR FOUR TIMES THE THERMAL MOVEMENT AT THE ISOLATOR LOCATION, WHICHEVER IS GREATER. CALCULATIONS SHALL INCLUDE PIPE STRESS AT END CONDITIONS AND BRANCH OFF LOCATIONS AND THE MANUFACTURER MUST INCLUDE INSTALLATION INSTRUCTIONS.

SUPPORT SPRING MOUNTINGS

SPRING ISOLATORS SHALL BE FREE STANDING AND LATERALLY STABLE WITHOUT ANY HOUSING AND COMPLETE WITH A MOLDED NEOPRENE CUP OR 1/4" NEOPRENE ACOUSTICAL FRICTION PAD BETWEEN THE BASEPLATE AND THE SUPPORT. ALL MOUNTINGS SHALL HAVE LEVELING BOLTS THAT MUST BE RIGIDLY BOLTED TO THE EQUIPMENT. INSTALLED AND OPERATING HEIGHTS SHALL BE EQUAL. THE RATIO OF THE SPRING DIAMETER DIVIDED BY THE COMPRESSED SPRING HEIGHT SHALL BE NO LESS THAN 0.8. SPRINGS SHALL HAVE A MINIMUM ADDITIONAL TRAVEL TO SOLID EQUAL TO 50% OF THE RATED DEFLECTION. SUBMITTALS SHALL INCLUDE SPRING DIAMETERS, DEFLECTION, COMPRESSED SPRING HEIGHT AND SOLID SPRING HEIGHT. MOUNTINGS SHALL BE TYPE SLF, AS MANUFACTURED BY MASON INDUSTRIES, INC OR EQUAL.

ANCHORS

ALL DIRECTIONAL ACOUSTICAL PIPE ANCHORS, CONSIST OF TWO SIZES OF STEEL TUBING SEPARATED BY A MINIMUM 1/2"THICKNESS OF 60 DURO OR SOFTER NEOPRENE. VERTICAL RESTRAINT SHALL BE PROVIDED BY SIMILAR MATERIAL ARRANGED TO PREVENT UP OR DOWN VERTICAL TRAVEL. ALLOWABLE LOADS ON THE ISOLATION MATERIAL SHALL NOT EXCEED 500 PSI AND THE DESIGN SHALL BE BALANCED FOR EQUAL RESISTANCE IN ANY DIRECTION. ALL DIRECTIONAL ANCHORS SHALL BE TYPE ADA AS MANUFACTURED BY MASON INDUSTRIES, INC OR EQUAL.

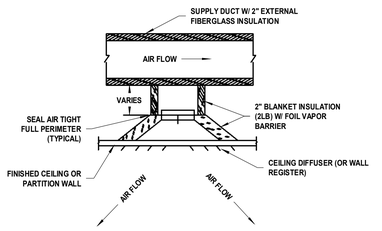
TELESCOPING GUIDES

PIPE GUIDES SHALL CONSIST OF A TELESCOPIC ARRANGEMENT OF TWO SIZES OF STEEL TUBING SEPARATED BY A MINIMUM 1/2" THICKNESS OF 60 DUROMETER OR SOFTER NEOPRENE. THE HEIGHT OF THE GUIDES SHALL BE PRESET WITH A SHEAR PIN TO ALLOW VERTICAL MOTION DUE TO PIPE EXPANSION OR CONTRACTION. GUIDES SHALL BE CAPABLE OF "1-5/8" MOTION, OR TO MEET LOCATION REQUIREMENTS. PIPE GUIDES SHALL BE TYPE VSG AS MANUFACTURED BY MASON INDUSTRIES, INC OR EQUAL.

SEE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

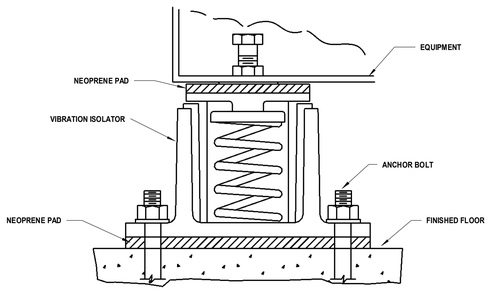
2 TYPICAL DETAIL - MECHANICAL HANGER SCHEDULE

NOT TO SCALE



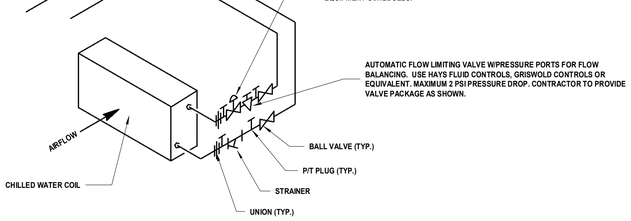
3 TYPICAL DETAIL - CEILING DIFFUSER

NOT TO SCALE



4 TYPICAL DETAIL - EQUIPMEMT SUPPORT (SPRING VIBRATION ISOLATION)

NOT TO SCALE

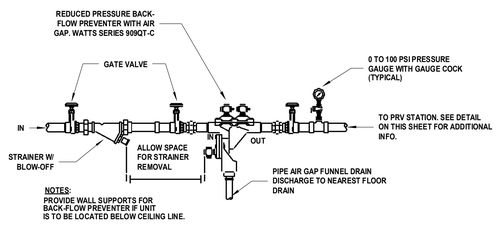


NOTES:

1. BLOWER COIL UNITS TO BE PROVIDED WITH VALVE PACKAGE.

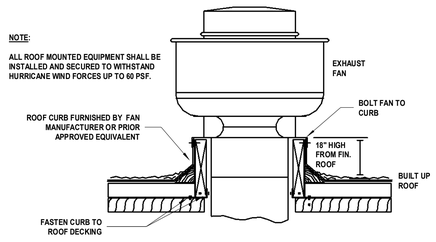
5 TYPICAL DETAIL - FAN COIL HYDRONIC PIPING DETAIL

NOT TO SCALE



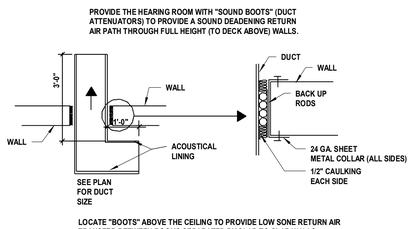
7 TYPICAL DETAIL - MAKE-UP WATER RPZ BACKFLOW PREVENTER

NOT TO SCALE



8 TYPICAL DETAIL - ROOF EXHAUST FAN

NOT TO SCALE



9 TYPICAL DETAIL - SOUND BOOT AIR TRANSFER

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LIGHTING SYMBOLS

CEILING	WALL	DESCRIPTION
		EXISTING FLUORESCENT, LED, OR HID LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		RELOCATED EXISTING FLUORESCENT, LED, OR HID LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		NEW FLUORESCENT, LED, OR HID LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		FLUORESCENT, LED, OR HID LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		FLUORESCENT STRIP FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		INCANDESCENT, LED, FLUORESCENT, OR HID LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		"EXIT" LIGHT FIXTURE. ARROWS ON FACE INDICATE DIRECTION. SEE FIXTURE SCHEDULE.
		INCANDESCENT, FLUORESCENT, OR LED EMERGENCY LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE
		FIXTURE WITH EMERGENCY BATTERY PACK. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		FLUORESCENT, LED, OR HID POLE MOUNTED LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
		WALL MOUNTED SCONCE. LETTER DENOTES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
	DR	POWER SUPPLY LED DRIVER. COORDINATE WITH LED LIGHT FIXTURE MANUFACTURER FOR SELECTION. SEE FIXTURE SCHEDULE.
	PP[a]	POWER PACK FOR OCCUPANCY SENSOR. SP DENOTES SLAVE PACK. SEE SENSOR SCHEDULE.
	RC	ROOM CONTROLLER FOR LIGHTING CONTROL
	OS[a]	OCCUPANCY SENSOR. SEE SENSOR SCHEDULE.
	P	PHOTOCELL

WIRING SYMBOLS

	DESCRIPTION
L:1,3	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS). CIRCUIT NUMBERS (NUMBERS). NUMBER OF CIRCUITS (NUMBER OF ARROWS). EACH CIRCUIT TO HAVE GROUND.
	WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL.
	FLEXIBLE CORD WIRE TO EQUIPMENT
	GROUND CONNECTON
S $S	SWITCH
S^M S^{M2}	MOTOR RATED TOGGLE SWITCH, 20A/1P (M) OR 30A/2P (M2)
S^3 S^3	THREE WAY SWITCH
S^4 S^4	FOUR WAY SWITCH
S^T S^T	SWITCH WITH INTEGRAL TIMER
S^O S^O	OCCUPANCY SENSOR, WALL MOUNTED, SEE SENSOR SCHEDULE
S^K S^K	KEY SWITCH, COORDINATE KEY SCHEDULE WITH ARCHITECT
S^{LCP} S^{LCP}	LOW VOLTAGE SWITCH VIA TO LCP. REFER TO PLANS FOR ADDITIONAL NOTES AND/OR REQUIREMENTS 4 BUTTON U.O.N.
D	DIMMER SWITCH
D^3	THREE WAY DIMMER SWITCH.
D^O	DIMMER SWITCH, OCCUPANCY SENSOR, SEE SENSOR SCHEDULE.
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT STUBBED OUT
	PULL BOX

POWER SYMBOLS

FLOOR	WALL	CEIL.	DESCRIPTION
			RECESSED SIMPLEX CLOCK OUTLET. SYMBOL AT 45 DEGREE ANGLE REPRESENTS CEILING MOUNTED
			DUPLEX OUTLET. SYMBOL AT 45 DEGREE ANGLE REPRESENTS CEILING MOUNTED
			SPECIAL OUTLET- NEMA CONFIGURATION AS INDICATED SYMBOL AT 45 DEGREE ANGLE REPRESENTS CEILING MOUNTED
			QUAD OUTLET. SYMBOL AT 45 DEGREE ANGLE REPRESENTS CEILING MOUNTED
			GFI DUPLEX OUTLET. SYMBOL AT 45 DEGREE ANGLE REPRESENTS CEILING MOUNTED
			ABOVE COUNTER DEVICE
			CORD REEL WITH DUPLEX RECEPTACLE CEILING MOUNTED.
SURFACE	FLUSH		
			BRANCH CIRCUIT PANELBOARD.
			DISTRIBUTION PANELBOARD.
			DISCONNECT SWITCH. FUSED UNLESS OTHERWISE NOTED.
			COMBINATION STARTER/DISCONNECT SWITCH. FUSED U.O.N. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
			MAGNETIC MOTOR STARTER OR VARIABLE FREQUENCY DRIVE. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
			MOTOR, SINGLE-PHASE.
			MOTOR, THREE-PHASE.
	WH		WATER HEATER.
			DUCT HEATER.
	J		JUNCTION BOX, WALL MOUNTED
	J		JUNCTION BOX, CEILING MOUNTED
	J		JUNCTION BOX WITH WHIP TO EQUIPMENT.
	CPT		CONTROL POWER TRANSFORMER
	T		TRANSFORMER
			UTILITY POLE.

SYSTEM DEVICES

FLOOR	WALL	CEIL.	DESCRIPTION
			TELEPHONE OUTLET, ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING. 1 CABLE PER STATION
			COMBINATION DATA/TELEPHONE OUTLET ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING. 2 CABLES PER STATION.
			DATA OUTLET ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING. 2 CABLES PER STATION.
			ABOVE COUNTER DEVICE, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING.
			CABLE TV OUTLET ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING
			VGA CONNECTOR ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING
	AV		AV ROUGH-IN, 4X4 BOX WITH 1-GANG PLASTER RING AND 1 1/4" CONDUIT WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING FOR AV WIRING BY OTHERS
	CA		CAMERA ROUGH-IN, 4X4 BOX WITH 3/4" CONDUIT WITH PULLSTRING BACK TO CABLE TRAY OR STUBBED OUT ABOVE ACCESSIBLE CEILING WITH CAT 6 CABLE
	CR		CARD READER ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING WITH CAT5 CABLE.
	ES		ROUGH-IN, 4X4 BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT TO ACCESSIBLE CEILING WITH 2204 PLENUM WHITE, 4 CONDUCTOR.

ONE-LINE SYMBOLS

	DESCRIPTION
M	METER ENCLOSURE
	CIRCUIT BREAKER
	FUSE
	FUSE
	FUSED SWITCH
BAS	BAS
PANEL	PANELBOARD
M#	METER/MONITOR: O/C=CIRCUIT BREAKER POSISTION STATUS, M2= SQUARE D PM820 OR EQUIV, M3=SQUARE D PM710 OR EQUIV
GFCI	GROUND FAULT CURRENT INTERRUPTER
	TRANSFORMER

REFERENCE SYMBOLS

	DESCRIPTION
1	REFERENCE NOTE.
1	SPECIFIC NOTE REFERENCE.
1	CALL OUT REFERENCE.
100	FEEDER REFERENCE.
1	REVISION REFERENCE.

FIRE ALARM SYSTEM DEVICES

	DESCRIPTION
	FIRE ALARM, COMBINATION SPEAKER/STROBE WALL MOUNTED AT 80" AFF, CANDELA AS INDICATED
S	FIRE ALARM SPEAKER, WALL MOUNTED
C	FIRE ALARM, COMBINATION SPEAKER/STROBE CEILING MOUNTED, CANDELA AS INDICATED
S C	FIRE ALARM SPEAKER, CEILING MOUNTED
C	STROBE, CEILING MOUNTED, CANDELA AS INDICATED
	STROBE, WALL MOUNTED AT 80" AFF. (CANDELA AS INDICATED).
F F^K	FIRE ALARM PULL STATION, PROVIDE PROTECTIVE COVERS. MATCH EXISTING BUILDING TYPE. K= LOCKING TYPE
T	HEAT DETECTOR
	SMOKE DETECTOR-CEILING MOUNTED, WALL MOUNTED
	DUCT SMOKE DETECTOR WITH SAMPLING TUBE MOUNTED IN DUCT WORK
	SMOKE DETECTOR WITH SOUNDER BASE. WALL BRACKET INDICATES DEVICE SHALL BE WALL MOUNTED
FS	FLOW SWITCH
TS	TAMPER SWITCH
CM	COMMAND MODULE
MM	MONITORING MODULE
PS	PRESSURE SWITCH
LS	LEVEL SWITCH
J^{FSD}	FIRE/SMOKE DAMPER. PROVIDE 120V POWER AND SIGNAL TO FACP.
^{INT}	2-WAY AREA OF REFUGE PHONE/INTERCOM

REFERENCE NOTES	
#	DESCRIPTION
1	FOR THE (4) HOME RUNS SHOWN, ROUTE 3#12+#10N+#12G IN (1) 3/4"C, AND 1#12+#10N+#12G IN (1) 3/4"C. EACH OF THESE (4) CIRCUITS SHALL TERMINATE AT A NEW OR SPARE 20A/1P CIRCUIT BREAKER IN NEAREST 208Y/120V PANEL, ALL (4) STACKED TOGETHER ON ONE SIDE AND CONNECTED WITH A HANDLE TIE.
2	PROVIDE WIREMOLD RFBA FLOOR BOX.

SYMBOL NOTES:

1. ANY SYMBOL WITH AN "E" IS EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUIT CONTINUITY.
2. ANY DASHED SYMBOL OR SYMBOL WITH AN "X" IS EXISTING TO BE REMOVED.
3. ANY SYMBOL WITH AN "R" IS RELOCATED.
4. SYMBOL MODIFIERS:
   - "AC" INDICATES DEVICE TO BE MOUNTED 4 IN. ABOVE COUNTER.
   - "GFI" INDICATES DEVICE TO BE GROUND FAULT INTERRUPTER.
   - "IG" INDICATES DEVICE TO BE ISOLATED GROUND TYPE.
   - "EM/NL" INDICATES FIXTURE TO BE WIRED FOR EMERGENCY AND NIGHT LIGHT OPERATION.
   - "EM" INDICATES FIXTURE TO BE WIRED FOR EMERGENCY OPERATION. SWITCHED.
   - "SM" INDICATES DEVICE TO BE SURFACE MOUNTED.
   - "D" INDICATED DEVICE TO BE ON DEDICATED CIRCUIT.
   - "FLC" INDICATES RECEPTACLE MOUNTED FLUSH WITH CEILING

GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENT AND THE RESULTANT INSTALLATION OF SUCH EQUIPMENT, DEVICES, ETC., SHALL BE IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, AND ALL APPLICABLE STATE AND FEDERAL CODES, AND THE NATIONAL ELECTRICAL SAFETY CODE.
2. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL DIMENSIONS AND LOCATIONS OF EXISTING, RELOCATED, AND NEW EQUIPMENT, AND SHALL BE RESPONSIBLE FOR COORDINATION WITH THE WORK OF OTHER TRADES NECESSARY TO THE PROJECT.
3. THESE DRAWINGS ARE INTENDED TO OUTLINE THE SCOPE OF WORK REQUIRED TO PROVIDE A COMPLETE AND OPERABLE PROJECT CONCLUSION. ALL MISCELLANEOUS COMPONENTS, PARTS, FASTENERS, SPLICES, AND OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETED PROJECT SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY NOTED.
4. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY CONFLICTS ARISING FROM DISCOVERED CONDITIONS AT ANY PHASE OF THE PROJECT.
5. CONTRACTOR SHALL NOTIFY OWNER AT LEAST 48 HOURS IN ADVANCE OF ANY WORK WHICH SHALL, OR REASONABLY COULD, RESULT IN OUTAGE OF POWER OR COMMUNICATIONS.
6. CONTRACTOR SHALL KEEP A CURRENT SET OF AS-INSTALLED DRAWINGS DOCUMENTING FIELD MODIFICATIONS, CHANGES, EXACT SUBSURFACE UTILITY ROUTINGS, ETC. TO BE TURNED OVER TO OWNER UPON PROJECT COMPLETION.
7. CONTROL POWER REQUIREMENTS TO BE SPECIFIED UNDER DIVISION 23, REFER TO DIVISION 26 FOR GENERAL REQUIREMENTS.
8. ALL CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR AS REQUIRED BY CODE. WHERE MORE THAN FOUR CURRENT CARRYING CONDUCTORS IN A RACEWAY, DERATE CIRCUIT AMPACITY AS PER THE NEC. NO MORE THAN THREE CIRCUITS SHALL SHARE A COMMON NEUTRAL. NEUTRAL CONDUCTOR SHALL MATCH BRANCH CIRCUIT CONDUCTORS UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE ALLOWED IS 12 AWG. 3-WAY AND 4-WAY SWITCH CIRCUITRY SHALL INCLUDE A HOT CONDUCTOR AT EACH SWITCH LOCATION REGARDLESS OF THE POSITION OF THE SWITCH HANDLE. FOR FIXTURES WITH PROVISIONS FOR EMERGENCY BATTERY PACKS, AN NON-SWITCHED HOT CONDUCTOR MUST BE PROVIDED FOR EACH EMERGENCY FIXTURE.
9. ALL LIGHT FIXTURES IN MECHANICAL ROOMS SHALL BE COORDINATED WITH THE EQUIPMENT BEING INSTALLED IN THE ROOM. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE LIGHT FIXTURES, CONDUIT, WIRING, AND CONTROL DEVICES TO PROVIDE PROPER LIGHTING IN THE SPACE.
10. PROVIDE PULL BOXES FOR ALL POWER, DATA, TELEPHONE, FIRE ALARM, AND OTHER CONDUITS RUNS SHOWN ON THE PLANS AS REQUIRED WHETHER SPECIFIED OR NOT.
11. ALL 120 VOLT, 20 AMP CIRCUIT WIRING SHALL BE ADJUSTED FOR VOLTAGE DROP SUCH THAT THE MAXIMUM VOLTAGE DROP AT THE FURTHEST OUTLET OF POWER, HEATING, OR LIGHTING LOADS DOES NOT EXCEED 3%.
12. ALL CONDUITS BEING STUBBED UP FROM SLAB SHALL HAVE A CONCRETE CURB PROTECTING THE CONDUITS. CURB SHALL BE A MINIMUM OF 6" ABOVE FINISHED FLOOR AND ENCOMPASS THE CONDUITS WITH A MINIMUM OF 2" OF CONCRETE.
13. CONTRACTOR SHALL SUPPLY ALL CIRCUITRY TO MOTOR CONTROLLERS AND VFD'S WHETHER SHOWN ON PLANS OR NOT.
14. LIGHT FIXTURE LOCATIONS SHOWN ON PLANS ARE FOR REFERENCE ONLY. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS AND TO DETERMINE CEILING TYPES PRIOR TO ORDERING FIXTURES. VERIFY ANY CONFLICTS WITH ARCHITECT.
15. ALL LIGHT FIXTURES SHOWN IN CHASES, ELECTRICAL, AND MECHANICAL SPACES WITH EXPOSED CEILINGS SHALL BE SUSPENDED FROM STRUCTURE VIA 4-POINT CHAIN, 4-POINT AIRCRAFT CABLE, OR TRAPEZE WITH UNISTRUT SUPPORTS. FIXTURES SHALL BE MOUNTED PLUMB TO EACH OTHER AND INLINE WITH STRUCTURAL LINES. COORDINATED AROUND THE WORK OF ALL TRADES AND INCLUDE COST TO MOVE FIXTURES UP TO 8 FEET PER DIRECTION OF ARCHITECT.
16. ALL WALL MOUNTED LIGHTING SWITCHES AND DIMMERS LOCATED ADJACENT TO EACH OTHER IN THE SAME SPACE SHALL BE GANGED TOGETHER WITH SINGLE MONOLITHIC FACEPLATE. USE VOLTAGE DIVIDER INSIDE WALL BOX FOR LOCATIONS WITH MUTIPLE VOLTAGES AND/OR MULTIPLE CIRCUITS.
17. ALL RACEWAY ROUTED UNDER THE SLAB SHALL BE SUPPORTED BY THE SLAB USING THE SAME HANGER SPACING AS SUPPORTED FROM STRUCTURE ABOVE. THE SOIL CANNOT BE USED AS SUPPORT WHEN ROUTED UNDER THE SLAB.
18. RACEWAY INSTALLED OUTSIDE OF THE BUILDING FOOTPRINT SHALL BE BURIED A MINIMUM OF 12" BELOW FINISHED GRADE.
19. ALL 120 VOLT, 20 AMP CIRCUITS WITH TOTAL LENGTH OF CONDUIT RUN EXCEEDING THE VALUES BELOW SHALL BE ADJUSTED TO THE WIRING SIZE BELOW WHETHER SPECIFIED OR NOT ON THE PLANS, INCLUDING THE GROUND CONDUCTORS:

    > 125 FEET #10 WIRE
    > 175 FEET #8 WIRE

ABBREVIATIONS

1.	AC	ABOVE COUNTER	48.	FARA	FIRE ALARM REMOTE ANNUCIATOR
2.	ACCU	AIR COOLED CHILLER UNIT	49.	FIN	FINISH
3.	ACR	ACRYLIC	50.	FL	FLUORESCENT
4.	AFF	ABOVE FINISHED FLOOR	51.	FLR	FLOOR
5.	AHU	AIR HANDLING UNIT	52.	FS	FUSIBLE SWITCH
6.	AL	ALUMINUM	53.	GA	GAUGE
7.	ASYMM	ASYMMETRICAL	54.	GSKT	GASKET OR GASKETED
8.	BCU	BLOWER COIL UNIT	55.	GFI	GROUND FAULT INTERRUPTER
9.	BLK	BLACK	56.	GND, G	GROUND
10.	BTC	BRANCH TO CONNECTION	57.	GUH	GAS UNIT HEATER
11.	C	CONDUIT	58.	HWP	HEATING HOT WATER PUMP
12.	CFL	COMPACT FLOURESCENT	59.	HID	HIGH INTENSITY DISCHARGE
13.	CHWP	CHILLER WATER PUMP	60.	HOUSG	HOUSING
14.	CL	CENTERLINE	61.	IWBP	ICE WATER BUILDER PUMP
15.	CLG	CEILING	62.	LCP	LIGHTING CONTROL PANEL
16.	CLR	CLEAR	63.	LIN	LINEAR
17.	CMH	CERAMIC METAL HALIDE	64.	MAU	MAKE-UP AIR UNIT
18.	COMM	COMMUNICATIONS	65.	MH	METAL HALIDE
19.	CONT	CONTINUOUS	66.	MNT	MOUNT
20.	CP	CIRCULATION PUMP	67.	MSB	MAIN SWITCHBOARD
21.	CP	CONTROL PANEL	68.	MTL	METAL
22.	CRI	COLOR RENDERING INDEX	69.	MTU	MOUNTED TO UNIT
23.	CRS	COLD ROLLED STEEL	70.	NL	NIGHT LIGHT
24.	CS	CROSS SECTION	71.	PENDT	PENDANT
25.	CT	COOLING TOWER	72.	PERF	PERFORATED
26.	CTR	CENTER	73.	POLYCB	POLYCARBONATE
27.	CTS	CURRENT TRANSFORMERS	74.	PWDR	POWDER
28.	CU	CONDENSING UNIT	75.	REFL	REFLECTOR
29.	CWP	CONDENSER WATER PUMP	76.	REQ'D	REQUIRED
30.	DCO	DUPLEX CONVENIENCE OUTLET	77.	RGS	RIGID GALVANIZED STEEL
31.	D	DEDICATED	78.	SCO	SINGLE CONVENIENCE OUTLET
32.	D1	DIRECT/INDIRECT	79.	SM	SURFACE MOUNT
33.	DBL	DOUBLE	80.	SF	SUPPLY FAN
34.	DFA	DOWN FROM ABOVE	81.	SPEC	SPECIFICATION OR SPECULAR
35.	DIFF	DIFFUSER	82.	SS	STAINLESS STEEL
36.	DMPR	DAMPER	83.	STL	STEEL
37.	DN	DOWN	84.	TFMR	TRANSFORMER
38.	EDH	ELECTRIC DUCT HEATER	85.	TR	TAMPER RESISTANT
39.	EF	EXHAUST FAN	86.	TYP	TYPICAL
40.	EL	ELEVATION ABOVE FINISHED FLOOR	87.	UON	UNLESS OTHERWISE NOTED
41.	EM	EMERGENCY OPERATION	88.	VERT	VERTICAL
42.	EQ	EQUAL	89.	VTS	VOLTAGE TRANSFORMERS
43.	EQUIV	EQUIVALENT	90.	WAP	WIRELESS ACCESS POINT
44.	EX	EXISTING	91.	WH	WATER HEATER
45.	EXTRD	EXTRUDED	92.	WHT	WHITE
46.	FAC	FIRE ALARM CABINET	93.	WP	WEATHER PROOF
47.	FACP	FIRE ALARM CONTROL PANEL			

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SEAL:

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SEE SHEETS G001/G002 FOR GENERAL NOTES APPLICABLE TO THE ENTIRE DRAWING SET

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PROJECT NO: 4024101

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
Drawn By RF Checked By JC

ELECTRICAL SYMBOLS & NOTES

SHEET NUMBER
E100

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LIGHTING FIXTURE SCHEDULE

UNIT TAG NO.	MANUFACTURER	SERIES	DESCRIPTION	LAMP	WATTAGE
F1	STARTEK	SLIM BEAM	4'W LED, RECESSED LINEAR, FLUSH LENS, WALL WASH	350LM/FT, 4000K, 80+CRI	40 VA
F2	HALO	HCD	6"D LED, RECESSED, WIDE BEAM, CLEAR SEMI-SPECULAR, SELECTABLE LUMENS AND CCT	2000LM, 4000K,80+CRI	15 VA
F2A	HALO	HCD	6"D LED, RECESSED, WIDE BEAM, WET LISTED, CLEAR SEMI-SPECULAR, SELECTABLE LUMENS AND CCT	2000LM, 4000K,80+CRI	15 VA
F3	METALUX	2ACZS	2'x4' VOLUMETRIC, SELECTABLE LUMENS AND CCT, SMOOTH FROSTED ACRYLIC LENS	5400LM, 4000K, 80+CRI	35 VA
F4	STARTEK	BEAM	4'W LED, LINEAR PENDANT, WSO, DSO, FLUSH LENS	400LM/FT, 350LM/FT, 4000K, 80+CRI	40 VA
F5	METALUX	SNX	4' LINEAR LED, ROUND FULL FROST LENS	7350LM, 4000K, 80+CRI	52 VA
F6	DIODE LED	STREAMLITE	LED TAPE LIGHT, LENGTH AS SHOWN, SURFACE MOUNTED CHANNEL, UNDERCOUNTER	330 LM/FT, 4000K, 90+CRI	8 VA
F7	CORELITE	INDEPTH 14ID	1'x4' VOLUMETRIC, 1" CUBE REGRESS	3000LM, 4000K, 80+CRI	29 VA
F8A	OCL	GLOWRING	2" DIAMETER DRUM, 11" AFF HEIGHT	3500LM, 4000K, 80+CRI	8 VA
F8B	OCL	GLOWRING	3" DIAMETER DRUM, 11" AFF HEIGHT	6000LM, 4000K, 80+CRI	8 VA
F8C	OCL	GLOWRING	4" DIAMETER DRUM, 11" AFF HEIGHT	8000LM, 4000K, 80+CRI	8 VA
F9	BETACALCO	KURL	4IN W SURFACE MOUNTED LED	1100 LM/FT	42 VA
F10	KICHLER	11146NILED	24" VERTICAL MOUNTED LED VANITY FIXTURE, BRUSH NICKEL FINISH	1000LM, 4000K, 90+ CRI	20 VA
F11	METALUX	VAPORTITE LED	4' LINEAR LED, VAPORTIGHT, VANDAL RESISTANT	3100LM, 4000K, 80+CRI	21 VA
F12	STARTEK	RECESSED BEAM	4'W LED, RECESSED LINEAR, FLUSH LENS	350LM/FT, 4000K, 80+CRI	40 VA
S1	INVUE	CLEARCURVE WALL	WALL PACK FIXTURE	3000LM, 4000K	12 VA
S2	INVUE	LXS	LED SITE, TYPE III, 360', MS/DIM	8000LM, 4000K	104 VA
S2A	INVUE	LXS	LED SITE, TYPE V, 360', MS/DIM	4500LM, 4000K	104 VA
S3	LUMENPULSE	LUMENBEAM	LED SITE,MEDIUM 30'	1500LM, 4000K	12 VA
X1	LITHONIA	EDGELIT	SURFACE MOUNT LED, GREEN LETTERS, ALUMINUM HOUSING, NI-CAD BATTERY	LED	2 VA

FIXTURE SCHEDULE GENERAL NOTES (FOR ALL FIXTURES LISTED):

1. ALL FIXTURES SHALL BE 120V UNLESS OTHERWISE NOTED.
2. LINEAR LIGHTS SHALL BE LENGTHS AS SHOWN ON DRAWINGS.
3. ALL FIXTURES SHALL HAVE INTEGRAL DRIVERS
4. REFER TO ARCHITECTS REFLECTIVE CEILING PLAN FOR LOCATIONS OF ALL LIGHT FIXTURES.
5. FIXTURES SHOWN ON PLANS WITH THE SYMBOL MODIFIER "NL" SHALL REMAIN ON AT ALL TIMES.
6. CONTRACTOR TO SUPPLY ALL NECESSARY HARDWARE TO COMPLETE INSTALLATION FOR FIXTURES.
7. EXIT FIXTURES SHALL BE PROVIDED WITH FACES AND ARROWS AS SHOWN ON PLANS.
8. ALL EMERGENCY LIGHTING SHALL HAVE EMERGENCY BATTERY.

OCCUPANCY SENSOR SCHEDULE

TAG	DESCRIPTION	COVERAGE	CATALOG	ALTERNATE
(D1)	CEILING MOUNTED, DUAL TECHNOLOGY PIR AND ULTRASONIC (OR MICROPHONIC), 1000 SQFT 360° COVERAGE, AUTO ADJUST TIME DELAY BASED ON USAGE PATTERNS, 24VDC	PIR WALKING MOTION - 44' DIAMETER PIR HAND MOTION - 25' DIAMETER UT WALKING MOTION - 40' X 40' UT HAND MOTION - 31' X 31'	HUBBELL NXSMDT-OMNI	WATTSTOPPER LMDC-100
	CORNER / WALL MOUNTED, DUAL TECHNOLOGY PIR AND ULTRASONIC (OR MICROPHONIC), 120° BY 40 FT COVERAGE, AUTO ADJUST TIME DELAY BASED ON USAGE PATTERNS, 24VDC	PIR WALKING MOTION - 2000 SQFT UT HAND MOTION - 1000 SQFT	HUBBELL NXOS	WATTSTOPPER LMDX-100
	WALL SWITCH SENSOR, DUAL TECHNOLOGY PIR AND ULTRASONIC (OR MICROPHONIC), AUTO ADJUST TIME DELAY BASED ON USAGE PATTERNS, 120VAC	PIR WALKING MOTION - 35' X 30' PIR HAND MOTION - 20' X 15' UT WALKING MOTION - 20' X 20' UT HAND MOTION - 15' X 15'	HUBBELL LMHT	WATTSTOPPER DSW-301
	WALL SWITCH SENSOR, PIR TECHNOLOGY, AUTO ADJUST TIME DELAY BASED ON USAGE, 0-10V DIMMING	PIR WALKING MOTION - 35' X 30' PIR HAND MOTION - 20' X 15'	HUBBELL LMHT	WATTSTOPPER PW-311
ER	EMERGENCY LIGHTING CONTROL UNIT, SELF-CONTAINED. SEE DETAIL 2/E2.5		HUBBELL ULS24BRUNV	WATTSTOPPER ELCU-200
RC	DIGITAL ROOM CONTROLLER, DUAL RELAY. 0-10V DIMMING PER RELAY		HUBBELL NXRC2	WATTSTOPPER LMRC-212
LCP	DIGITAL SWITCH (# BUTTONS). CONNECTED TO LIGHTING CONTROL PANEL VIA ETHERNET CABLING.		HUBBELL NXSW	WATTSTOPPER LMSW

FEEDER SCHEDULE

TYPE THHN/THWN INSUL. COPPER CONDUCTOR AMPACITY BASED ON (75° TEMP. RATING)
FEEDER DESIGNATION (___1/2 N) DENOTES 1/2 SIZE NEUTRAL

FEEDER DESIGNATION	3PH+G: PHASE + GROUND CONDUCTORS AND CONDUIT SIZE 1PH+G: PHASE + NEUTRAL + GROUND CONDUCTOR AND CONDUIT SIZE	FEEDER DESIGNATION	3PH+G: PHASE + NEUTRAL + GROUND CONDUCTORS AND CONDUIT SIZE
20	3#12+#12 GND., 3/4"C	20N	4#12+#12 GND., 3/4"C
30	3#10+#10 GND., 3/4"C	30N	4#10+#10 GND., 3/4"C
50	3#8+#10 GND., 3/4"C	50N	4#8+#10 GND., 3/4"C
65	3#6+#8 GND., 1"C	65N	4#6+#8 GND., 1"C
85	3#4+#8 GND., 1 1/4"C	85N	4#4+#8 GND., 1 1/4"C
100	3#3+#8 GND., 1 1/4"C	100N	4#3+#8 GND., 1 1/4"C
115	3#2+#6 GND., 1 1/4"C	115N	4#2+#6 GND., 1 1/4"C
130	3#1+#6 GND., 1 1/2"C	130N	4#1+#6 GND., 1 1/2"C
150	3#1/0+#6 GND., 1 1/2"C	150N	4#1/0+#6 GND., 2"C
175	3#2/0+#6 GND., 2"C	175N	4#2/0+#6 GND., 2"C
200	3#3/0+#6 GND., 2"C	200N	4#3/0+#6 GND., 2"C
230	3#4/0+#4 GND., 2"C	230N	4#4/0+#4 GND., 2 1/2"C
255	3#250+#4 GND., 2 1/2"C	255N	4#250+#4 GND., 2 1/2"C
285	3#300+#4 GND., 2 1/2"C	285N	4#300+#4 GND., 3"C
310	3#350+#3 GND., 3"C	310N	4#350+#3 GND., 3"C
335	3#400+#3 GND., 3"C	335N	4#400+#3 GND., 3"C
380	3#500+#3 GND., 3"C	380N	4#500+#3 GND., 3 1/2"C
400	2 SETS(3#3/0+#3 GND., 2"C)	400N	2 SETS(4#3/0+#3 GND., 2"C)
420	3#600+#2 GND., 3 1/2"C	420N	4#600+#2 GND., 4"C
460	2 SETS(3#4/0+#2 GND., 2"C)	460N	2 SETS(4#4/0+#2 GND., 2 1/2"C)
510	2 SETS(3#250+#1 GND., 2 1/2"C)	510N	2 SETS(4#250+#1 GND., 2 1/2"C)
570	2 SETS(3#300+#4 GND., 2 1/2"C)	570N	2 SETS(4#300+#4 GND., 3"C)
620	2 SETS(3#350+#1/0 GND., 3"C)	620N	2 SETS(4#350+#1/0 GND., 3"C)
760	2 SETS(3#500+#1/0 GND., 3"C)	760N	2 SETS(4#500+#1/0 GND., 3 1/2"C)
840	2 SETS(3#600+#2/0 GND., 3 1/2"C)	840N	2 SETS(4#600+#2/0 GND., 4"C)
855	3 SETS(3#300+#2/0 GND., 2 1/2"C)	855N	3 SETS(4#300+#2/0 GND., 3"C)
1000	3 SETS(3#400+#2/0 GND., 3"C)	1000N	3 SETS(4#400+#2/0 GND., 3"C)

COMcheck-Web™

Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Hahnville Library
Location: New Orleans, Louisiana
Climate Zone: 2a
Project Type: New Construction
Project Area: 10162
All Electric: false
Is Renewable: false
Has Battery: false
Has Solar PV: false
Has Heat Pump: false

Construction Site: Owner/Agent: Designer/Contractor:

Notes:

Building Area

Description	Floor Area
1 Library (Library - Nonresidential	10162

Report Title: Hahnville Library Report Date: 1/19/26, 2:09 PM 1 of 9

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Hahnville Library
Location: New Orleans, Louisiana
Climate Zone: 2a
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-CORRIDOR (Common Space Types:Corridor/Transition <=8 ft wide)	2293	0.41	
2-OPEN OFFICE (Common Space Types:Office - Open Plan)	4779	0.61	
3-CONFERENCE (Common Space Types:Conference/Meeting/Multipurpose)	1799	0.97	
4-ELEC MECH (Common Space Types:Electrical/Mechanical)	869	0.43	
5-RESTROOMS (Common Space Types:Restrooms)	1093	0.63	
6-Enclosed (Common Space Types:Office - Enclosed)	2059	0.74	
Total Allowed Watts:			10375

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
1 CORRIDOR (Common Space Types:Corridor/Transition <=8 ft wide)			
F2: F2 LED	30	15	450
F9: F9 LED	10	42	420
F8: F8 LED	10	8	80
F1: F1 LED	10	40	400
2 OPEN OFFICE (Common Space Types:Office - Open Plan)			
F4: F4 LED	40	46	1600
F2: F2 LED	20	15	300
3 CONFERENCE (Common Space Types:Conference/Meeting/Multipurpose)			
F1: F1 LED	10	40	400
F2: F2 LED	10	15	150
4 ELEC MECH (Common Space Types:Electrical/Mechanical)			
F5: F5 LED	12	52	624
5 RESTROOMS (Common Space Types:Restrooms)			

Report Title: Hahnville Library Report Date: 1/19/26, 2:09 PM 2 of 9

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
F3: F3 LED	12	15	180
6 Enclosed (Common Space Types:Office - Enclosed)			
F3: F3 LED	20	24	480
F9: F9 LED	3	52	156
Total Proposed Watts:			5240

Proposed Interior Lighting Controls

Fixture	Lighting Control
1 CORRIDOR (Common Space Types:Corridor/Transition <=8 ft wide)	
F2: F2 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
F9: F9 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
F8: F8 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
F1: F1 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
2 OPEN OFFICE (Common Space Types:Office - Open Plan)	
F4: F4 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
F2: F2 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
3 CONFERENCE (Common Space Types:Conference/Meeting/Multipurpose)	
F1: F1 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
F2: F2 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
4 ELEC MECH (Common Space Types:Electrical/Mechanical)	
F5: F5 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
5 RESTROOMS (Common Space Types:Restrooms)	
F2: F2 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
6 Enclosed (Common Space Types:Office - Enclosed)	
F3: F3 LED	Occupancy Sensor, Interior Timeswitch, Manual Control
F5: F5 LED	Occupancy Sensor, Interior Timeswitch, Manual Control

Interior Lighting PASSES: Design 49% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Robert Findley 01/19/2026

Name - Title Signature Date

Report Title: Hahnville Library Report Date: 1/19/26, 2:09 PM 3 of 9

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Hahnville Library
Location: New Orleans, Louisiana
Climate Zone: 2a
Project Type: New Construction
Exterior Lighting Zone: Neighborhood business district (LZ2)

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / ft2	D Tradable Wattage	E Allowed Watts (B X C)
PARKING LOT (Parking area)	30000 ft2	0.04	No	1200.0
Total Tradable Watts (a):				1200
Base Site Allowance (b):				400
Total Allowed Watts:				1600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
PARKING LOT (Parking area 30000 ft2) Tradable Wattage				
S1: S1 LED	0	5	12	60
S2: S2 LED	0	10	104	1040
F2: F2 LED	0	12	15	180
F11: F11 LED	0	3	21	63
Total Tradable Proposed Watts:				1343

Proposed Exterior Lighting Controls

Fixture	Lighting Control
PARKING LOT (Parking area 30000 ft2)	
S1: S1 LED	Daylight Shutoff, Facade or Landscape
S2: S2 LED	Daylight Shutoff, Facade or Landscape
F2: F2 LED	Daylight Shutoff, Facade or Landscape
F11: F11 LED	Daylight Shutoff, Facade or Landscape

Report Title: Hahnville Library Report Date: 1/19/26, 2:09 PM 4 of 9

Exterior Lighting PASSES: Design 18% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Robert Findley 01/19/2026

Name - Title Signature Date

Report Title: Hahnville Library Report Date: 1/19/26, 2:09 PM 5 of 9

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ELECTRICAL SCHEDULES

SHEET NUMBER
E101

HUSEMAN MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
Drawn By RF Checked By JC

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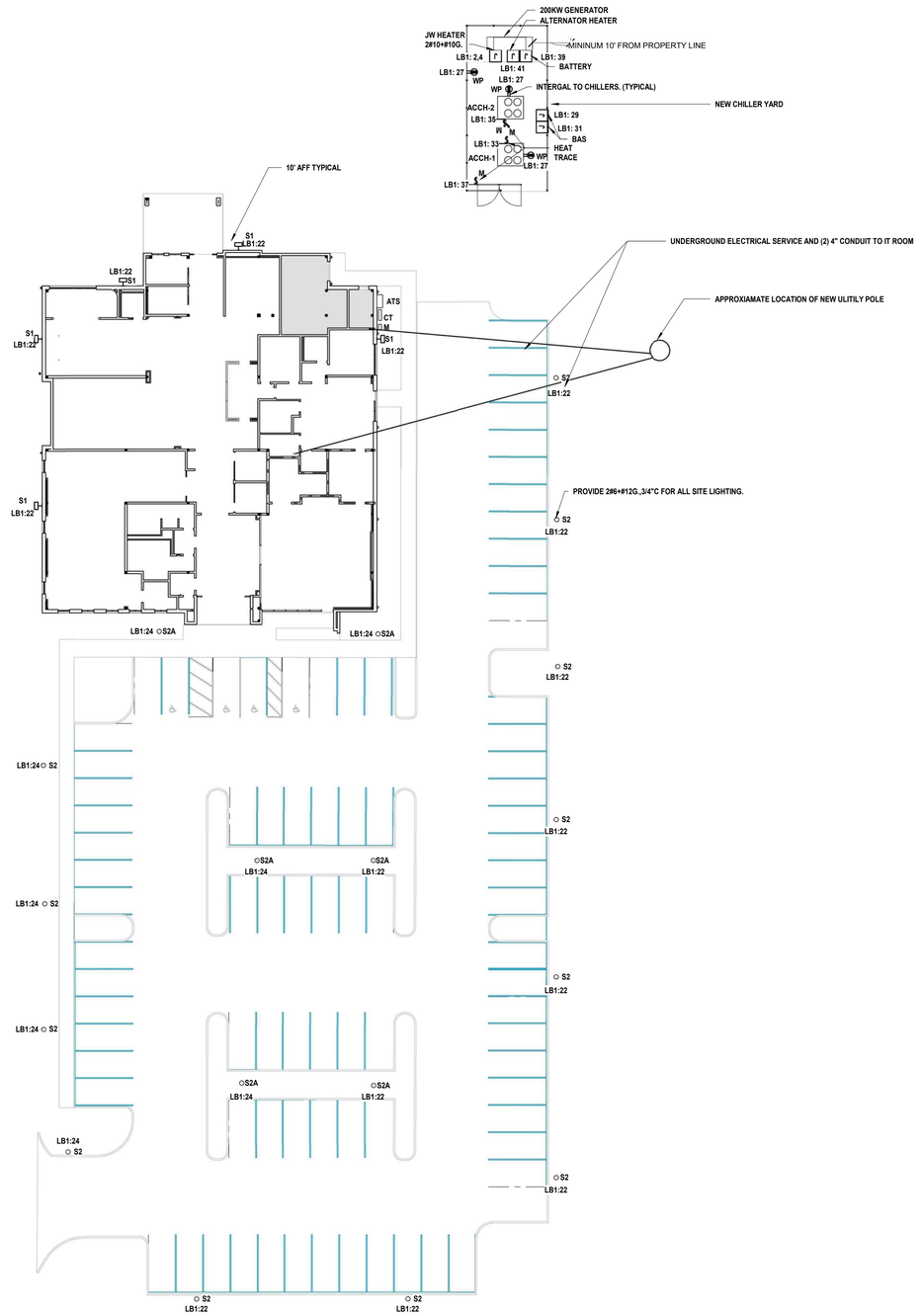

1 ELECTRICAL SITE PLAN
1" = 20'-0"

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ELECTRICAL SITE PLAN

SHEET NUMBER
E200

HUSEMAN MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
Drawn By RF Checked By JC

SPECIAL NOTES:

1 PROVIDE 375VA/120V IOTA ISS 375 INVERTER FOR THIS CIRCUIT. INSTALL THE INVERTER IN THE ELECTRICAL ROOM.

1 1ST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

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FIRST FLOOR PLAN - LIGHTING

SHEET NUMBER
E201

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
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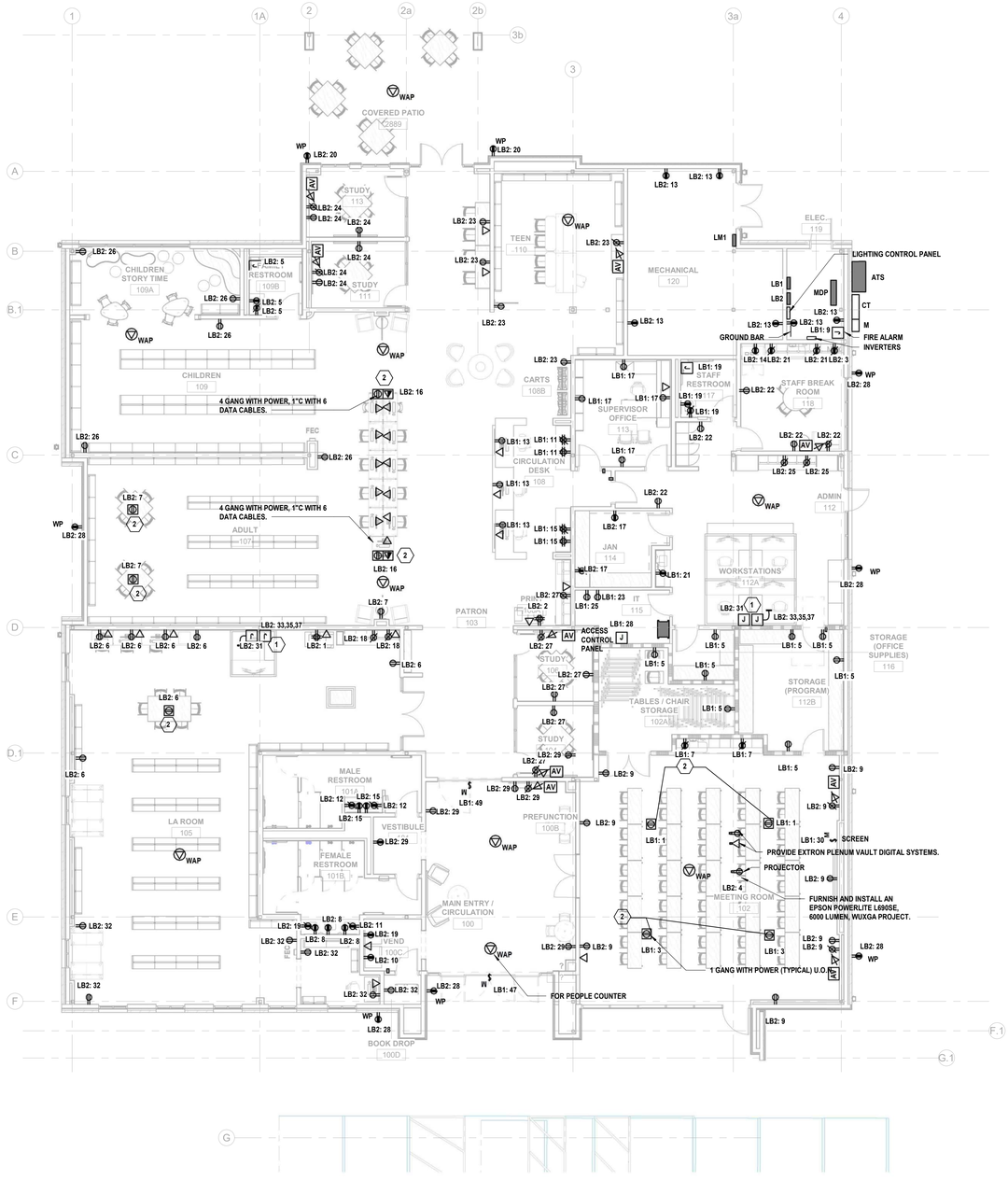

1 1ST FLOOR PLAN - POWER
1/8" = 1'-0"

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FIRST FLOOR PLAN - POWER & DATA

SHEET NUMBER
E301

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD, SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
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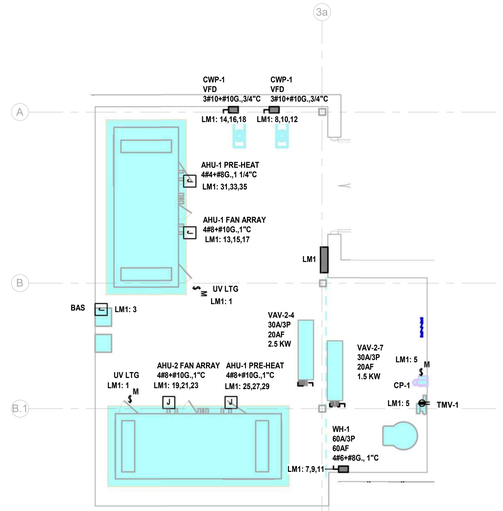
1 FIRST FLOOR PLAN - MECHANICAL POWER
1/8" = 1'-0"



2 FIRST FLOOR PLAN - MECHANICAL ROOM
1/4" = 1'-0"

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FIRST FLOOR PLAN - MECHANICAL POWER

SHEET NUMBER
E401

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3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

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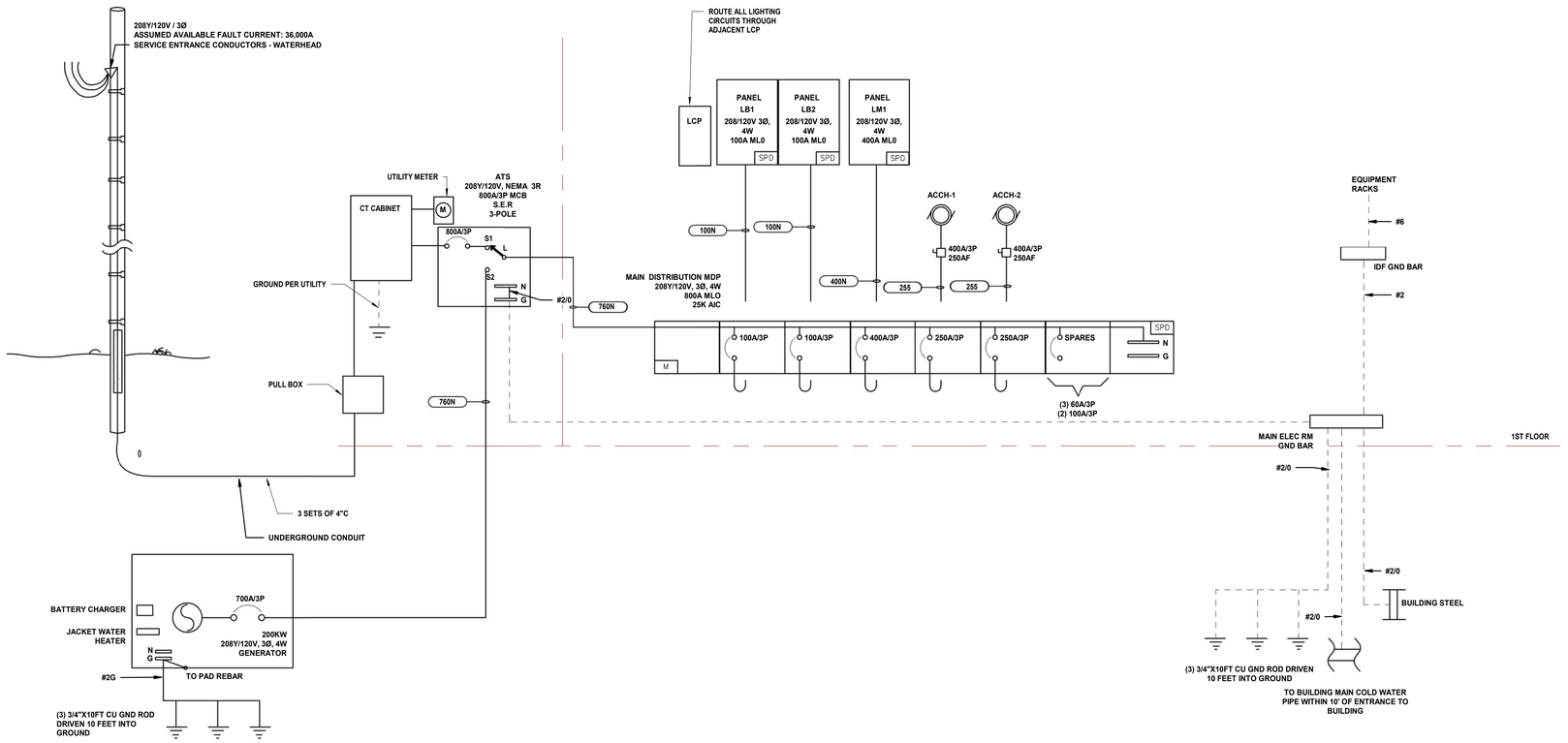
FEEDER SCHEDULE

TYPE THHN/THWN INSUL. COPPER CONDUCTOR AMPACITY BASED ON (75° TEMP. RATING)
FEEDER DESIGNATION (___1/2 N) DENOTES 1/2 SIZE NEUTRAL

FEEDER DESIGNATION	3PH+G: PHASE + GROUND CONDUCTORS AND CONDUIT SIZE 1PH+G: PHASE + NEUTRAL + GROUND CONDUCTOR AND CONDUIT SIZE	FEEDER DESIGNATION	3PH+G: PHASE + NEUTRAL + GROUND CONDUCTORS AND CONDUIT SIZE
20	3#12+#12 GND., 3/4"C	20N	4#12+#12 GND., 3/4"C
30	3#10+#10 GND., 3/4"C	30N	4#10+#10 GND., 3/4"C
50	3#8+#10 GND., 3/4"C	50N	4#8+#10 GND., 3/4"C
65	3#6+#8 GND., 1"C	65N	4#6+#8 GND., 1"C
85	3#4+#8 GND., 1 1/4"C	85N	4#4+#8 GND., 1 1/4"C
100	3#3+#8 GND., 1 1/4"C	100N	4#3+#8 GND., 1 1/4"C
115	3#2+#6 GND., 1 1/4"C	115N	4#2+#6 GND., 1 1/4"C
130	3#1+#6 GND., 1 1/2"C	130N	4#1+#6 GND., 1 1/2"C
150	3#1/0+#6 GND., 1 1/2"C	150N	4#1/0+#6 GND., 2"C
175	3#2/0+#6 GND., 2"C	175N	4#2/0+#6 GND., 2"C
200	3#3/0+#6 GND., 2"C	200N	4#3/0+#6 GND., 2"C
230	3#4/0+#4 GND., 2"C	230N	4#4/0+#4 GND., 2 1/2"C
255	3#250+#4 GND., 2 1/2"C	255N	4#250+#4 GND., 2 1/2"C
285	3#300+#4 GND., 2 1/2"C	285N	4#300+#4 GND., 3"C
310	3#350+#3 GND., 3"C	310N	4#350+#3 GND., 3"C
335	3#400+#3 GND., 3"C	335N	4#400+#3 GND., 3"C
380	3#500+#3 GND., 3"C	380N	4#500+#3 GND., 3 1/2"C
400	2 SETS(3#3/0+#3 GND., 2"C)	400N	2 SETS(4#3/0+#3 GND., 2"C)
420	3#600+#2 GND., 3 1/2"C	420N	4#600+#2 GND., 4"C
460	2 SETS(3#4/0+#2 GND., 2"C)	460N	2 SETS(4#4/0+#2 GND., 2 1/2"C)
510	2 SETS(3#250+#1 GND., 2 1/2"C)	510N	2 SETS(4#250+#1 GND., 2 1/2"C)
570	2 SETS(3#300+#4 GND., 2 1/2"C)	570N	2 SETS(4#300+#4 GND., 3"C)
620	2 SETS(3#350+#1/0 GND., 3"C)	620N	2 SETS(4#350+#1/0 GND., 3"C)
760	2 SETS(3#500+#1/0 GND., 3"C)	760N	2 SETS(4#500+#1/0 GND., 3 1/2"C)
840	2 SETS(3#600+#2/0 GND., 3 1/2"C)	840N	2 SETS(4#600+#2/0 GND., 4"C)
855	3 SETS(3#300+#2/0 GND., 2 1/2"C)	855N	3 SETS(4#300+#2/0 GND., 3"C)
1000	3 SETS(3#400+#2/0 GND., 3"C)	1000N	3 SETS(4#400+#2/0 GND., 3"C)



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ELECTRICAL ONE LINE DIAGRAM

SHEET NUMBER
E501

HUSEMAN MEP ENGINEERS 20 YEARS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
Drawn By RF Checked By JC

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SCHEDULE OF PANEL

CKT 42 | Type 1 | SYM RMS AMPS 25,000 AIC

MAIN: MLO 800 A | SYSTEM VOLTAGE: 120/208 Wye,3ph,4w, | MDP | MOUNTING: Surface | LOCATION: ELEC. 119

Notes:
INTERGAL SPD, INTERGAL METER

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				8202... 0 VA						2
3	LB1	100 A	3		5820... 0 VA		3	60 A	SPARE	4
5						8556... 0 VA				6
7				6733... 0 VA						8
9	LB2	100 A	3		6633... 0 VA		3	100 A	SPARE	10
11						6773... 0 VA				12
13				36733... 0 VA						14
15	1LM1	400 A	3		4673... 0 VA		3	100 A	SPARE	16
17						3691... 0 VA				18
19				21000... --			1	--	SPACE	20
21	ACCH-1	250 A	3		2100... --		1	--	SPACE	22
23						2100... --	1	--	SPACE	24
25				21000... --			1	--	SPACE	26
27	ACCH-2	250 A	3		2100... --		1	--	SPACE	28
29						2100... --	1	--	SPACE	30
31				0 VA --			1	--	SPACE	32
33	SPARE	60 A	3		0 VA --		1	--	SPACE	34
35						0 VA --	1	--	SPACE	36
37				0 VA --			1	--	SPACE	38
39	SPARE	60 A	3		0 VA --		1	--	SPACE	40
41						0 VA --	1	--	SPACE	42
				93668 VA	101187 VA	94243 VA				

TOTAL KVA CONNECTED: 289.0... **KVA**

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	126000 VA	100.00%	126000 VA		
HVAC	51800 VA	80.00%	41440 VA	**Total Conn. Load**	289098 VA
Lighting	12822 VA	125.00%	16028 VA	**Total Est. Demand**	239424 VA
Motor	0 VA	0.00%	0 VA	**Total Conn. Current**	802 A
Other	36 VA	100.00%	36 VA	**Total Est. Demand Current**	665 A
Receptacle	95040 VA	55.26%	52520 VA		
Water Heater	3400 VA	100.00%	3400 VA		

SCHEDULE OF PANEL

CKT 54 | Type 1 | SYM RMS AMPS 22,000 AIC

MAIN: MLO 100 A | SYSTEM VOLTAGE: 120/208 Wye,3ph,4w, | LB2 | MOUNTING: Surface | LOCATION: ELEC. 119

Notes:
INTERGAL SPD

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	PRINTER	20 A	1	0 VA 0 VA			1	20 A	PRINTER	2
3	MICROWAVE	20 A	1		180 VA 180 VA		1	20 A	PROJECTOR	4
5	RESTROOM REC.	20 A	1			860 VA 1260...	1	20 A	CONV. REC.	6
7	CHILDREN REC.	20 A	1	540 VA 540 VA			1	20 A	RESTROOM REC.	8
9	CONV. REC.	20 A	1		1620... 180 VA		1	20 A	VENDING	10
11	VENDING	20 A	1			180 VA 360 VA	1	20 A	RESTROOM REC.	12
13	MECH/ELEC RM REC.	20 A	1	1080... 180 VA			1	20 A	REF	14
15	RESTROOM REC.	20 A	1		360 VA 360 VA		1	20 A	FLOOR BOXES	16
17	JAN REC.	20 A	1			360 VA 360 VA	1	20 A	APPLAINCES	18
19	RESTROOM REC.	20 A	1	360 VA 360 VA			1	20 A	EXT. REC.	20
21	APPLAINCES	20 A	1		360 VA 900 VA		1	20 A	STAFF BREAK RM REC.	22
23	TEEN REC.	20 A	1			900 VA 1080...	1	20 A	STUDY REC.	24
25	APPLAINCES	20 A	1	360 VA 900 VA			1	20 A	CHILDREN REC.	26
27	STUDY REC.	20 A	1		1080... 1080...		1	20 A	EXT. REC.	28
29	MAIN ENTRY REC.	20 A	1			1080... 0 VA	1	20 A	SPARE	30
31	WORKSTATIONS	20 A	1	1000... 1080...			1	20 A	CONV. REC.	32
33					333 VA 0 VA		1	20 A	SPARE	34
35	WORKSTATIONS	20 A	3			333 VA 0 VA	1	20 A	SPARE	36
37				333 VA 0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA 0 VA			1	20 A	SPARE	44
45	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	46
47	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA 0 VA			1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	54
				6733 VA	6633 VA	6773 VA				

TOTAL KVA CONNECTED: 20.14 **KVA**

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	20140 VA	74.83%	15070 VA		
				Total Conn. Load	20140 VA
				Total Est. Demand	15070 VA
				Total Conn. Current	56 A
				Total Est. Demand Current	42 A

SCHEDULE OF PANEL

CKT 54 | Type 1 | SYM RMS AMPS 22,000 AIC

MAIN: MLO 100 A | SYSTEM VOLTAGE: 120/208 Wye,3ph,4w, | LB1 | MOUNTING: Surface | LOCATION: ELEC. 119

Notes:
INTERGAL SPD

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	MEETING RM REC.	20 A	1	360 VA 250 VA						
3	MEETING RM REC.	20 A	1		360 VA 250 VA		2	30 A	JW HEATER	4
5	STORAGE REC.	20 A	1			1440... 3251...	1	20 A	LTG	6
7	MEETING RM REC.	20 A	1	360 VA 2664...			1	20 A	LTG	8
9	FIRE ALARM - RED	20 A	1		500 VA 1293...		1	20 A	LTG	10
11	CIR. DESK REC.	20 A	1			0 VA 81 VA	1	20 A	LTG	12
13	CIR. DESK REC.	20 A	1	540 VA 1849...			1	20 A	LTG	14
15	CIR. DESK REC.	20 A	1		0 VA 356 VA		1	20 A	LTG	16
17	OFFICE REC.	20 A	1			720 VA 1052...	1	20 A	LTG	18
19	RESTROOM REC.	20 A	1	860 VA 284 VA			1	20 A	LTG	20
21	APPLAINCE	20 A	1		180 VA 1076...		1	20 A	SITE LTG	22
23	IT	20 A	1			180 VA 832 VA	1	20 A	SITE LTG	24
25	IT	20 A	1	180 VA						26
27	CHILLER REC.	20 A	1		540 VA 500 VA		1	20 A	ACCESS CONTROL PANEL	28
29	BAS	20 A	1			500 VA 0 VA	1	20 A	SCREEN	30
31	BAS	20 A	1	500 VA 105 VA			1	20 A	SITE LTG	32
33	HEAT TRACE	20 A	1		0 VA 15 VA		1	20 A	LTG	34
35	HEAT TRACE	20 A	1			0 VA 0 VA	1	20 A	SPARE	36
37	HEAT TRACE	20 A	1	0 VA 0 VA			1	20 A	SPARE	38
39	BATTERY	20 A	1		500 VA 0 VA		1	20 A	SPARE	40
41	ALTERNATOR HEATER	20 A	1			500 VA 0 VA	1	20 A	SPARE	42
43	BACKFLOW PREVENTOR	20 A	2	250 VA 0 VA			1	20 A	SPARE	44
45					250 VA 0 VA		1	20 A	SPARE	46
47	MOTORIZED DOOR	20 A	1			0 VA 0 VA	1	20 A	SPARE	48
49	MOTORIZED DOOR	20 A	1	0 VA 0 VA			1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA 0 VA		1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	54
				8202 VA	5820 VA	8556 VA				

TOTAL KVA CONNECTED: 22.57... **KVA**

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	12822 VA	125.00%	16028 VA		
Motor	0 VA	0.00%	0 VA	**Total Conn. Load**	22578 VA
Other	36 VA	100.00%	36 VA	**Total Est. Demand**	25784 VA
Receptacle	9720 VA	100.00%	9720 VA	**Total Conn. Current**	63 A
				Total Est. Demand Current	72 A

SCHEDULE OF PANEL

CKT 42 | Type 1 | SYM RMS AMPS 22,000 AIC

MAIN: MLO 400 A | SYSTEM VOLTAGE: 120/208 Wye,3ph,4w, | LM1 | MOUNTING: Surface | LOCATION: MECHANICAL 120

Notes:
INTERGAL SPD

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	UV LTG	20 A	1	0 VA 7933...						
3	BAS	20 A	1		1000... 7933...		3	60 A	VAVS	4
5	CP-1	20 A	1			180 VA 7933...				6
7				1133... 1267...						8
9	WH-1	60 A	3		1133... 1267...		3	30 A	CWP-1	10
11						1133... 1267...				12
13				3333... 1267...						14
15	AHU-1 FAN ARRAY	50 A	3		3333... 1267...		3	30 A	CWP-2	16
17						3333... 1267...				18
19				3333... 0 VA			1	20 A	EF	20
21	AHU-2 FAN ARRAY	50 A	3		3333... 0 VA		1	20 A	FCU-1	22
23						3333... 0 VA	1	20 A	EF	24
25				3333... 0 VA			1	20 A	EF	26
27	AHU-2 PRE-HEAT	50 A	3		3333... 0 VA		1	20 A	EF	28
29						3333... 0 VA				30
31				8333... 0 VA			3	30 A	SPARE	32
33	AHU-1 PRE-HEAT	80 A	3		8333... 0 VA					34
35						8333... 0 VA				36
37				6800... 0 VA			3	20 A	SPARE	38
39	VAVS	60 A	3		6800... 0 VA					40
41						6800... --	1	--	SPACE	42
				36733 VA	46733 VA	36913 VA				

TOTAL KVA CONNECTED: 120.38 **KVA**

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	51800 VA	80.00%	41440 VA		
Motor	0 VA	0.00%	0 VA	**Total Conn. Load**	120380 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand**	82430 VA
Receptacle	65180 VA	57.67%	37590 VA	**Total Conn. Current**	334 A
Water Heater	3400 VA	100.00%	3400 VA	**Total Est. Demand Current**	229 A

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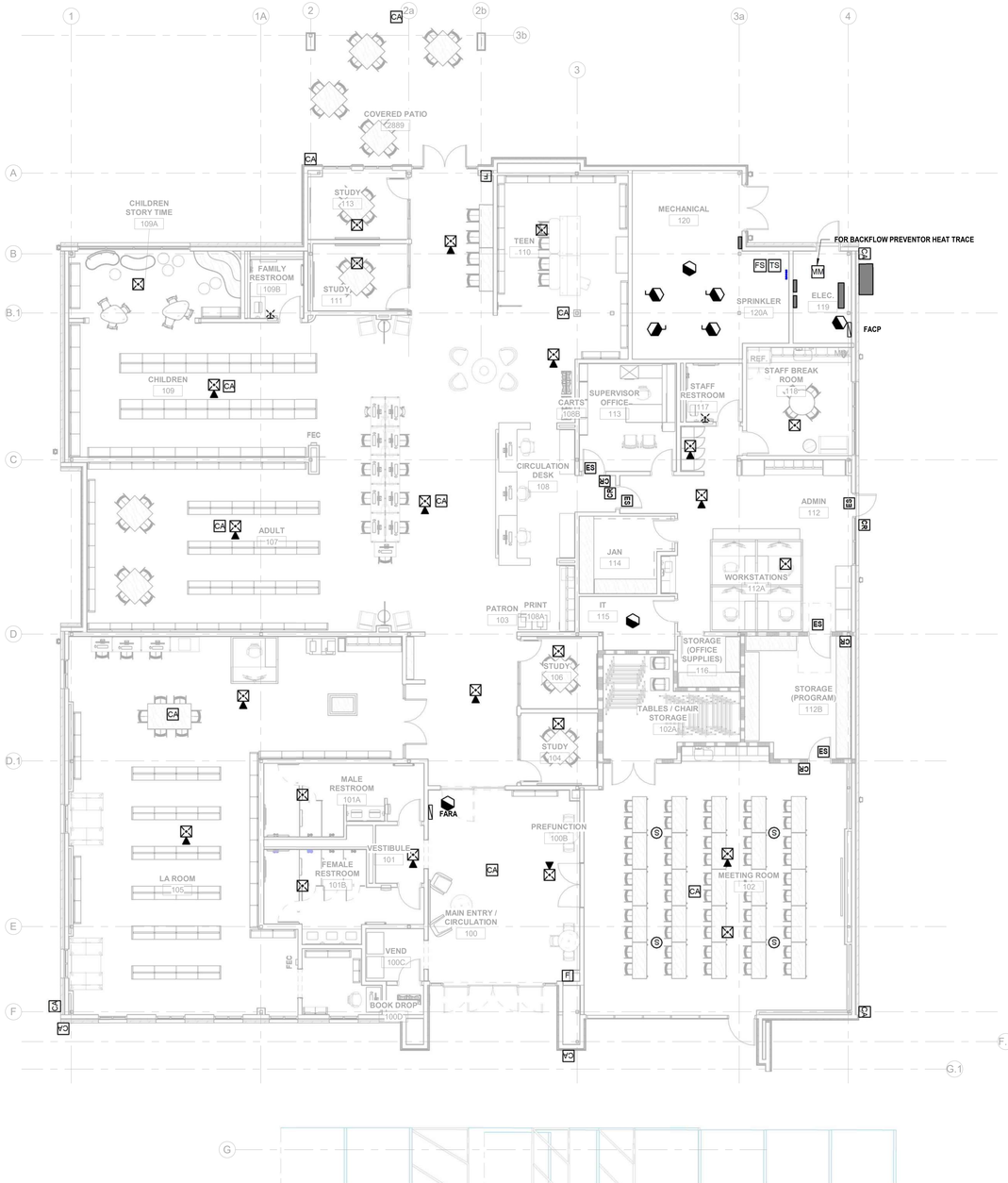
PANEL SCHEDULES

SHEET NUMBER
E502

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 | Designed By RF
Drawn By RF | Checked By JC



1 1ST FLOOR PLAN - SPECIAL SYSTEMS
1/8" = 1'-0"

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FIRST FLOOR PLAN - SPECIAL SYSTEMS

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E601

HUSEMAN 20 YEARS MEP ENGINEERS
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METAIRIE LA 70002 504.456.3119

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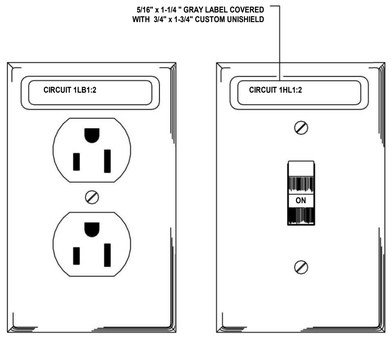
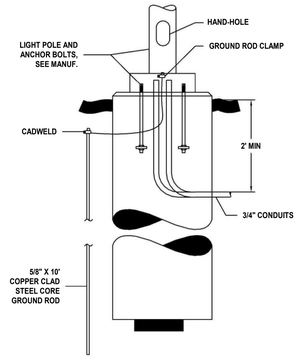


A E701 **DEVICE IDENTIFICATION DETAIL**
N.T.S. WALL ELEVATION



B E701 **SITE POLE ELECTRICAL DETAIL**
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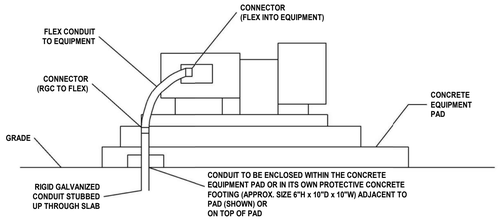
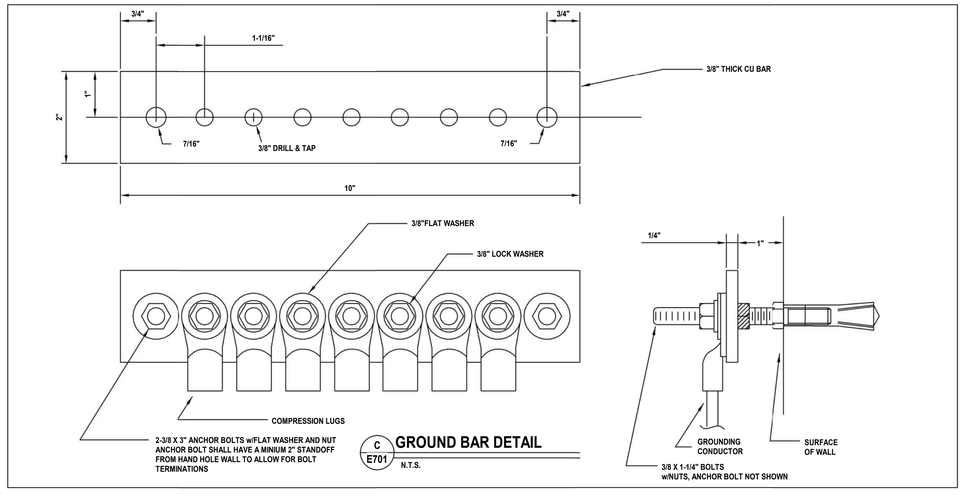


D E701 **EQUIPMENT CONNECTION DETAIL**
1/2" = 1'-0"



C E701 **GROUND BAR DETAIL**
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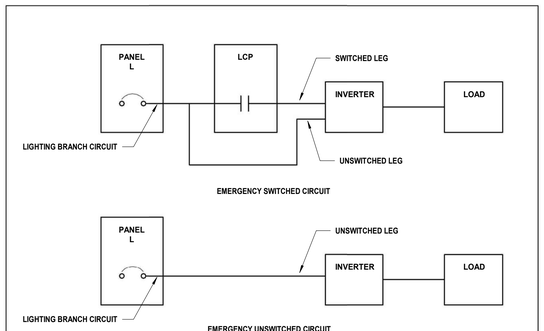

E E701 **EMERGENCY LIGHTING DIAGRAM**
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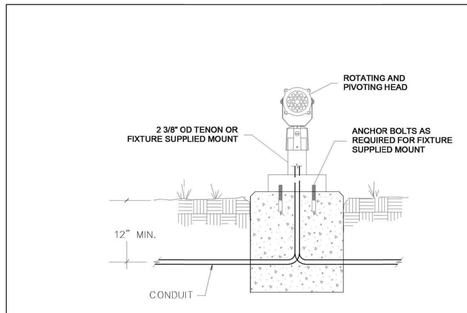

F E701 **SIGN LIGHT DETAIL**
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ELECTRICAL DETAILS

SHEET NUMBER
E701

HUSEMAN MEP ENGINEERS 20 YEARS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By RF
Drawn By RF Checked By JC

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GAL.	GALLONS
AFG	ABOVE FINISHED GRADE	G.V.	GATE VALVE
AP	ACCESS PANEL	GPM	GALLONS PER MINUTE
AECO	ACID EXTERIOR CLEANOUT	HB	HOSE BIBB
AFCO	ACID FINISH FLOOR CLEANOUT	HD	HUB DRAIN
AV	ACID VENT	H.P.	HIGH POINT
AW	ACID WASTE	HW	HOT WATER
AD	AREA DRAIN	HWR	HOT WATER RETURN
B.F.F.	BELOW FINISHED FLOOR	HWRBA	HOT WATER RETURN BALANCING ASSEMBLY
BLW.	BELOW	IE	INVERT ELEVATION
BLDG.	BUILDING	IW	INDIRECT WASTE
CLG	CEILING	M.H.	MANHOLE
CL	CENTER LINE	OSD	OVERFLOW STORM DRAIN
CV	CHECK VALVE	PRS	PRESSURE REDUCING STATION
CONT.	CONTINUATION	PRV	PRESSURE REDUCING VALVE
COND.	CONDENSATE	R.P.B.P.	REDUCED PRESSURE BACKFLOW PREVENTER
CW	COLD WATER	RED.	REDUCER
CFH	CUBIC FEET PER HOUR	REL. DR.	RELIEF DRAIN
CTB	CONCRETE THRUST BLOCK	RD	ROOF DRAIN
DET.	DETAIL	RWL	RAIN WATER LEADER
DIR.W.C.	DIRECT WASTE CONNECTION	SAN.	SANITARY
DIAG.	DIAGRAM	SECT.	SECTION
DIAM.	DIAMETER	SCH.	SCHEDULE
DOM.	DOMESTIC	SD	STORM DRAIN
DS	DOWN SPOUT	SHT.	SHEET
DR.	DRAIN	SPECS.	SPECIFICATIONS
DST	DEEP SEAL TRAP	SJ	SWING JOINT
DWG.	DRAWING	SPKR.	SPRINKLER
EA.	EACH	SS	SANITARY SEWER
ECO	EXTERIOR CLEANOUT	STL. ST.	STAINLESS STEEL
FD	FLOOR DRAIN	TEMP.	TEMPERATURE
FF	FINISHED FLOOR	TYP.	TYPICAL
FCO	FINISH FLOOR CLEANOUT	V.	VENT
F.U.	FIXTURE UNIT	VS.	VENT STACK
FL.	FLOOR	VTR	VENT THRU ROOF
F.D.C.	FIRE DEPARTMENT CONNECTION	W	WASTE (INTERIOR)
F.H.	FIRE HYDRANT	WCO	WALL CLEANOUT
FSP	FIRE STANDPIPE	WS	WASTE STACK
FT.	FOOT	W/WCO	WITH WALL CLEANOUT
FPWH	FREEZE PROOF WALL HYDRANT		
G.P.H.	GALLONS PER HOUR		

PLUMBING LEGEND

CW	COLD WATER	
HPCW	HIGH PRESSURE COLD WATER	HPCW
LPCW	LOW PRESSURE COLD WATER	LPCW
HW	HOT WATER	
HWR	HOT WATER RETURN	
140°HW	HOT WATER	140°HW
140°HWR	HOT WATER RETURN	140°HWR
G	GAS	G
V	VENT	V
W	WASTE LINE	W
UW	UNDERGROUND WASTE LINE	UW
UGW	UNDERGROUND GREASE WASTE	UGW
GW	GREASE WASTE	GW
GV	GREASE VENT	GV
S	SEWER	S
USD	UNDERGROUND STORM DRAIN	USD
SD	STORM DRAIN	SD
OSD	OVERFLOW STORM DRAIN	OSD
UNG	UNDERGROUND NATURAL GAS	UNG
TP	TRAP PRIMER LINE	1/2" TP

GENERAL SCOPE:

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LOCAL PLUMBING CODE, STATE AND FEDERAL LAWS, ORDINANCES AND CODES. THIS WORK SHALL BE DONE IN A NEAT AND PROFESSIONAL MANNER BY TECHNICIANS SKILLED IN THE PLUMBING INDUSTRY. ALL REQUIRED PERMITS SHALL BE OBTAINED BY THE PLUMBING CONTRACTOR.
2. HOLE CUTTING, PATCHING AND PAINTING SHALL BE COORDINATED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE SPECIFIED.
3. COORDINATE WASTE, VENT, COLD AND HOT WATER LINES OR ANY OTHER ASSOCIATED WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLING PIPES OR CUTTING OPENINGS.
4. PROVIDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWINGS. SUCH AS PIPE, FITTINGS, HANGERS, FIXTURES, DRAINS, P-TRAPS INSERTS, FLASHING INSULATION, HARDWARE ETC. TO MAKE A FULLY FUNCTIONAL INSTALLATION OF THE NATURAL GAS, WASTE & VENT, COLD WATER AND HOT WATER SYSTEMS. PROVIDE LABOR FOR THE PLUMBING ROUGH-IN OF FIXTURES AND EQUIPMENT.

PLUMBING INSULATION:

1. GLASS FIBER INSULATION FOR DOMESTIC WATER:
   - A. PROVIDE FACTORY-FORMED, FIBERGLASS PIPE IN COMPLIANCE WITH ADOPTED ENERGY CODE REQUIREMENTS. INSULATED FACTOR-JACKETED "SYSTEM" TYPE SIMILAR TO OWENS-CORNING 25 ASJ HEAVY DENSITY, ONE PIECE, DUAL TEMPERATURE, PRE-MOLDED INSULATION. REFER TO SPECIFICATIONS.
   - B. INSULATE ALL VALVES, FITTINGS AND FLANGES WITH 3-POUNDS DENSITY FIBERGLASS INSULATION TO A THICKNESS EQUAL TO THE ADJACENT PIPING INSULATION AND COVERED WITH PRE MOLDED 25/50 RATED PVC FITTINGS, VAPOR SEALED WITH CHILDERS CP-30 VAPOR BARRIER MASTIC.
   - C. JACKET TO BE FIBERGLASS REINFORCED KRAFT PAPER WITH ALUMINUM FOIL. REFER TO SPECIFICATIONS.

GENERAL PLUMBING NOTES:

1. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEM WITH ALL TRADES INCLUDING OWNER PROVIDED IT SYSTEMS (I.E., CABLE ROUTING AND SUPPORT SYSTEMS). COORDINATED SHOP DRAWINGS SHALL BE PROVIDED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
2. COORDINATE ALL PIPING ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. ROUTE ALL PIPING TO AVOID DUCTWORK, ELECTRICAL RACEWAYS, HVAC SYSTEMS, STRUCTURAL, ETC. IF PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE REQUIRED FOR PLUMBING INSTALLATIONS, NOTIFY ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION TO INSURE THAT STRUCTURAL INTEGRITY IS MAINTAINED. ROUTE PIPING WITHIN JOIST WHEN POSSIBLE.
3. CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS.
4. ALL UNDERGROUND PIPING SHALL BE POLYPROPYLENE (PP-R and PP-RCT) PIPING AND USE THE ELECTROFUSION JOINING METHOD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
6. UNLESS OTHERWISE NOTED ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS AND INSIDE OF CHASES. PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL ROOMS OR TELE / DATA CLOSETS.
7. SLEEVE AND FIRE STOP ALL PENETRATIONS OF RATED WALLS, CEILINGS, FLOORS, ETC. IN ACCORDANCE WITH APPLICABLE UL STANDARDS AND LOCAL CODES TO MAINTAIN RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALLS AND FLOORS.
8. PIPING DIAGRAMS ARE INTENDED TO INDICATE GENERAL PIPE ROUTNG. PLUMBING CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN FIELD. THIS SHALL BE ACHIEVED AT NO ADDITIONAL COST TO THE OWNER.
9. ALL PLUMBING INSTALLATION AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL CURRENTLY ADOPTED LOCAL, STATE, AND FEDERAL CODES, APPLICABLE STANDARDS, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
10. PROVIDE ACCESS PANELS TO ALL VALVES AND OTHER DEVICES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
11. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTED MANUFACTURERS SHALL BE PRECISION, SIOUX CHIEF, JOSAM, JAY R. SMITH, WATTS (NO.15 SERIES), AND WADE. AIR CHAMBERS ARE NOT ACCEPTABLE.
12. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, DIMENSIONS AND HANDICAPPED REQUIREMENTS.
13. SITE UTILITIES ARE SHOWN ON CIVIL SITE UTILITIES DRAWINGS. ALL BUILDING UTILITIES SHOWN ON THIS SET OF PLANS TERMINATE WITHIN 5 FEET OF THE BUILDING. THE CONTRACTOR SHALL MAKE ALL FINAL PLUMBING SERVICE CONNECTIONS TO SITE WORK UTILITIES BROUGHT IN UNDER CIVIL DRAWINGS.
14. DRAINAGE PIPING SHALL SLOPE NO LESS THAN 1/8" FALL PER FOOT. REFER TO SPECIFICATIONS.
15. UNLESS OTHERWISE NOTED, FURNISH AND INSTALL HOSE BIBBS AND WALL HYDRANTS 24 INCHES ABOVE FINISHED GRADE/FLOOR.
16. REFER TO PLUMBING FIXTURE SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE TO INSTALL ALL PLUMBING SYSTEMS.
18. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS AND EXACT LOCATIONS OF UTILITIES TO WHICH NEW PLUMBING SERVICES ARE TO BE CONNECTED.
19. ALL VENTS THROUGH ROOF SHALL BE LOCATED AWAY FROM AIR INTAKES AS REQUIRED BY CODE. COORDINATE WITH MECHANICAL HVAC CONTRACTOR AS NECESSARY.
20. PROVIDE TRAP PRIMER TO ALL FLOOR DRAINS AND FLOOR SINKS AS REQUIRED FOR COMPLIANCE WITH ALL STATE AND CITY PLUMBING CODES.
21. ROUGH-IN ALL WASTE AND SUPPLY SERVICES TO SPECIAL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MAKE FINAL CONNECTIONS. ALL SUPPL SERVICES SHALL HAVE ISOLATION VALVES.
22. SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATION) TO ARCHITECT FOR REVIEW PRIOR TO PURCHASING AND OR INSTALLATION OF ANY PIPING AND/OR EQUIPMENT.
23. PRESSURE REDUCING VALVES SHALL BE INSTALLED ON BRANCH LINES SERVING FIXTURES AND/OR EQUIPMENT, WHEN THE PRESSURE IN THE SERVICE LINES EXCEED 80 P.S.I.
24. DO NOT PENETRATE STRUCTURAL FOOTINGS WITH PIPING.
25. ANY PIPING IN UNCONDITIONED SPACES SHALL BE INSULATED AND HEAT TRACED TO PROTECT FROM FREEZING CONDITIONS.
26. PROVIDE WALL CLEANOUTS AT THE BASE OF ALL VERTICAL PLUMBING WASTE RISERS. PROVIDE ACCESS PANEL.
27. ALL DOMESTIC WATER PIPING SHALL BE CLEANED BEFORE INSTALLATION. INSTALLED PIPING SHALL BE KEPTCLEAN FROM CONSTRUCTION DEBRIS. COORDINATE INSTALLATION TO AVOID INTERFERENCE WITH OPENINGS, ACCESS TO EQUIPMENT AND ANY OTHER TRADES. RUN PIPES IN STRAIGHT LINES AND ALIGNED WITH BUILDING STRUCTURE. INSTALL RISERS VERTICALLY PLUMB.
28. VALVES LOCATIONS: LOCATE SHUT OFF AND CONTROL VALVES FOR EASY ACCESS AND OPERATION. WHERE VALVES ARE LOCATED IN ENCLOSED SPACES, ACCESS DOORS SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR BUT LOCATED BY PLUMBING CONTRACTOR.
29. REFER TO MECHANICAL HVAC DRAWINGS FOR MECHANICAL EQUIPMENT SIZE AND LOCATION.
30. REFER TO ELECTRICAL DRAWINGS FOR PANEL LOCATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN CLEARANCES AROUND PANELS AS REQUIRED BY CODE.
31. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT MANUFACTURER AS SUBMITTED AND APPROVED FOR APPLICATION WITH PLUMBING DRAWINGS.
32. CLEANING: BEFORE PIPING IS ACCEPTED BY THE ARCHITECT, CLEAN AND/OR STERILIZE THE PIPING SYSTEMS AS REQUIRED IN THE SPECIFICATIONS.
33. PROVIDE WATER SHUT OFF VALVES FOR ALL BRANCH LINES AND CONNECTIONS TO EQUIPMENT.
34. PROVIDE 2-WAY EXTERIOR CLEANOUT FOR WASTE PIPING WITHIN 3'-0" OF BUILDING.
35. CONTRACTOR SHALL COORDINATE LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS WITH OTHER DISCIPLINES TO AVOID TRIP HAZARDS FROM EQUIPMENT DRAIN PIPING.
36. PROVIDE HANGERS AND SADDLES FOR UNDERGROUND WASTE AND VENT PIPING EVERY 2'-0.
37. PROVIDE SLEEVES FOR ALL PIPING PENETRATIONS AT UNDERGROUND BEAMS/STRUCTURE.
38. PROVIDE MANUAL HOT AND COLD WATER ISOLATION VALVES (FULL PORT BALL VALVE TYPE) FOR EACH RESTROOM, BREAKROOM, SHOWER, ETC.
39. OWNER WILL FURNISH AND INSTALL THE FOLLOWING SYSTEMS, INCLUDING THE RACEWAY AND ROUGH-INS: TELECOMMUNICATIONS, ACCESS CONTROL, AND CCTV. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROVIDE PROPER PATHWAY DESIGNATIONS AND SPACING BETWEEN TRADES PER THE OWNER'S STANDARDS AND SPECIFICATIONS.

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PROJECT NO: 4024101

PLUMBING NOTES, ABBREVIATIONS, AND SYMBOLS

SHEET NUMBER: P100

HUSEMAN MEP ENGINEERS
20 YEARS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No: 2401501 Designed By: ZL
Drawn By: ZL Checked By: JL

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PLUMBING FIXTURE SCHEDULE

UNIT TAG NO.	TYPE	MANUFACTURER	MODEL	DESCRIPTION			BRANCH SIZE CONNECTION TO THE DISTRIBUTED MAIN , U.O.N.			
				FIXTURE	VALVE	MISC.	CW	HW	VENT	WASTE
FD-1	FLOOR DRAIN	JAY R. SMITH	2005Y03-P050-U	FLOOR DRAIN, 3" OUTLET, NICKEL BRONZE ROUND STRAINER, CAST IRON BODY W/ FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD WITH TRAP PRIMER CONNECTION, VANDAL PROOF SCREWS. FOR GENERAL USE. ALTERNATE MFG. WATTS OR WADE.			1/2"		2"	3"
HB-1	HOSE BIBB	WOODFORD	B65	ENCASED NON-FREEZE WALL HYDRANT, AUTOMATIC DRAINING ANTI-SIPHON. COMPLETE WITH BRONZE BODY, ALL BRONZE INTERIOR PARTS, REPLACEABLE SEAT WASHER, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, KEY OPERATED CONTROL VALVE, AND 3/4 IN. FEMALE INLET AND 3/4 IN. MALE HOSE CONNECTION STANDARD. ADJUSTABLE STAINLESS STEEL BOX FURNISHED WITH HINGED COVER,			3/4"			
IMB-1	ICE MAKER BOX	GUY GRAY	87967	PLASTIC LEAD-FREE ICE MAKER BOX			3/4"			
MS-1	MOP SINK	FIAT	TSB-100	FLOOR MOUNTED MOP BASIN. ONE PIECE WITH STAINLESS THRESHOLD. 3 INCH DRAIN.	WALL MOUNT CHROME PLATED FAUCET: CHICAGO MODEL 897-CP OR APPROVED EQUAL, WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK AND WALL BRACE/HOSE CONNECTION. PROVIDE WITH 30 INCH LONG HEAVY DUTY HOSE.	MOP BRACKET 24 INCH LONG BY 3 INCH WIDE, STAINLESS STEEL WITH 3 TOOL GRIPS. PROVIDE CHECK VALVES ON HOT AND COLD WATER SUPPLY ABOVE CEILING.	3/4"	3/4"	2"	3"
ODS-1	OVERFLOW DOWNSPOUT NOZZLE	ZURN	ZARB199	DOWNSPOUT NOZZLE, NO-HUB INLET, AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.						
ORD-1	ROOF DRAIN	JAY R. SMITH	1070-C/S-V-AD							
P-1	WATER CLOSET	AMERICAN STANDARD	AFFWALL MILLENUIM (3351.101)	VITREOUS CHINA, WALL HUNG, SIPHON JET, 1-1/2 INCH TOP SPUD, 1.28 G.P.F., ELONGATED BOWL, SEAT SHALL BE WHITE, BEMIS COMMERCIAL HEAVY DUTY OPEN FRONT LESS COVER W/ SELF-SUSTAINING CHECK HINGE (MODEL 2155SSCT) WITH STAINLESS STEEL POSTS AND PINTLES.	SLOAN MODEL G2 8111 BT, TOP SPUD, 1.28 GPF, CHROME PLATED W/CHECK ANGLE STOP, VACUUM BREAKER, BATTERY OPERATED.	CARRIERS SUPPORTS - HEAVY DUTY J.R. SMITH, WADE OR WATTS FLOOR MOUNT ANCHOR SUPPORTS. CARRIER SHALL BE HOR., VERTICAL, BACK TO BACK, ETC. COORDINATE	1"		3"	4"
P-1A	WATER CLOSET	AMERICAN STANDARD	AFFWALL MILLENUIM (3351.101)	VITREOUS CHINA, WALL HUNG, SIPHON JET, 1-1/2 INCH TOP SPUD, 1.28 G.P.F., ELONGATED BOWL, SEAT SHALL BE WHITE, BEMIS COMMERCIAL HEAVY DUTY OPEN FRONT LESS COVER W/ SELF-SUSTAINING CHECK HINGE (MODEL 2155SSCT) WITH STAINLESS STEEL POSTS AND PINTLES, ADA COMPLIANT.	SLOAN MODEL G2 8111 BT, TOP SPUD, 1.28 GPF, CHROME PLATED W/CHECK ANGLE STOP, VACUUM BREAKER, BATTERY OPERATED.	CARRIERS SUPPORTS - HEAVY DUTY J.R. SMITH, WADE OR WATTS FLOOR MOUNT ANCHOR SUPPORTS. CARRIER SHALL BE HOR., VERTICAL, BACK TO BACK, ETC. COORDINATE	1"		3"	4"
P-2	URINAL	AMERICAN STANDARD	WASHBROOK FLOWISE (6590.001)	WALL HUNG URINAL, WHITE VITREOUS CHINA WITH TOP SPUD, SIPHON JET ACTION, ELONGATED 14" RIM.	SLOAN MODEL G2 8186 BT, TOP SPUD, 0.5 GPF, CHROME PLATED W/CHECK ANGLE STOP, VACUUM BREAKER, BATTERY OPERATED.	CARRIERS SUPPORTS - HEAVY DUTY J.R. SMITH, WADE OR WATTS FLOOR MOUNT ANCHOR SUPPORTS. CARRIER SHALL BE WELDED HEAVY GUAGE WITH INTERGRAL MOUNTING PLATE AND HARDWARE , ETC. COORDINATE	3/4"		2"	2"
P-3	LAVATORY	KOHLER	K-2337-1	22"-3/4"X18" RECTANGULAR DROP-IN BATHROOM SINK, SINGLE FAUCET HOLE, VITREOUS CHINA, WHITE	FAUCET, SLOAN MODEL EAF-300 HANDS FREE WIRED TYPE, CHROME PLATED, 1.5 GPM	PROVIDE GRID STRAINER, P-TRAP, ¼ TURN STOPS, WRAP, LAVGUARDS AND SUPPLIES.	3/4"	3/4"	2"	2"
P-4	SINK	KOHLER	K-75791-1-NA	33" TOP-/UNDERMOUNT DOUBLE-BOWL KITCHEN SINK, 36" MINIMIM BASE CABINET WIDTH, LARGE/MEDIUM BOWLS, SINGLE 1-7/16" FAUCET HOLES, DOUBLE 3=3/4 DRAIN HOLES	EXPOSED DECK MOUNT FAUCET, ELKAY MODEL LKD24898BHC, WITH ARC SPOUT AND 4" LEVER HANDLES, 1.5 GPM, CHROME-PLATED BRASS, QUARTER TURN CERAMIC DISC VALVE.	PROVIDE GRID STRAINER, P-TRAP, ¼ TURN STOPS, WRAP, LAVGUARDS AND SUPPLIES.	3/4"	3/4"	2"	2"
P-6	WATER FOUNTAIN	ELKAY	LZSTL8WSLP	BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILL STATION. WALL MOUNTED, FILTERED (BUILT-IN) 8 GPH, LIGHT GRAY. CHILLING CAPACTIY OF 8.0 GPH OF 50°F DRINKING WATER. ADA COMPLIANT.		UNIT SHALL BE CERTIFIED TO UL 399, CAN/CSA C22.2 NO. 120 AND NSF/ANSI 61 & 372 (LEAD FREE).	3/4"		2"	2"
RD-1	ROOF DRAIN	JAY R. SMITH	1015-AD-U-L							

NOTES:

1. COMPLIANCE WITH PROJECT ACCESSIBILITY REQUIREMENTS FOR FIXTURES WITHIN THIS SCHEDULE TO BE CONFIRMED BY ARCHITECT AND/OR ACCESSIBILITY CONSULTANT.
2. HOSE BIBBS AND WALL HYDRANTS TO BE MOUNTED AT 24" ABOVE FINISHED FLOOR OR FINISHED GRADE UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL VERIFY DRAIN COMPATIBILITY WITH CONSTRUCTION TYPE PRIOR TO INSTALLATION OR PROCUREMENT.
4. PROVIDE INSULATION AND HEAT TRACE SYSTEM FOR HOSE BIBBS AND WATER SUPPLY PIPING EXPOSED TO FREEZING CONDITIONS.
5. FURNISH AND INSTALL PVC UNDERSINK PIPE PROTECTION COVERS (DEARBORN OR EQUIVALENT) ON ALL DRAINAGE, HOT AND COLD WATER VALVE(S) AND SUPPLY PIPING UNDER LAVATORIES TO COMPLY WITH ADA AND CODE STANDARDS. COVERS SHALL BE SECURED BY JOINING INTERNAL HOOK AND LOOP FASTENING SYSTEM. SNAP-TO-LOCK FASTENERS MAY BE USED FOR IMPROVED TAMPER RESISTANCE.
6. PROVIDE MOUNTING HARDWARE, SUPPORTS, BRACKETS, ETC. AS REQUIRED BY THE FIXTURE MANUFACTURER FOR PROPER INSTALLATION.
7. PROVIDE 1/2" TRAP PRIMER TO ALL FLOOR DRAINS. (TYPICAL)
8. ALL 1/4 TURN ANGLE STOP VALVES SHALL BE PROVIDED WITH LOOSE KEY HANDLE FOR VANDAL PROOF INSTALLATION.
9. PLUMBING CONTRACTOR TO PROVIDE MATERIALS AND LABOR TO MAKE ALL REQUIRED FINAL CONNECTIONS FOR A COMPLETE & OPERABLE SYSTEM.

WATER HAMMER ARRESTOR SCHEDULE

TYPE	FIXTURE UNIT RATING	I.P.S.	PRECISION	SEE NOTE:
A	1 TO 11	1/2"	SC-500	1
B	12 TO 32	3/4"	SC-500	1
C	33 TO 60	1"	SC-500	1
D	61 TO 113	1 1/4"	SC-500	1
E	114 TO 154	1 1/2"	SC-500	1
F	155 TO 330	2"	SC-500	1

NOTES:

1. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER THE PLUMBING DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES AND ANY OTHER QUICK CLOSING VALVES ARE USED.

ELECTRIC WATER HEATER SCHEDULE

UNIT TAG NO.	CAPACITY (GAL)	PERFORMANCE		ELECTRICAL			BASIS OF DESIGN		OPERATING WEIGHT (LBS.)
		EWT (°F)	LWT (°F)	POWER (KW)	V/PH/HZ	FLA	MANUFACTURER	MODEL	
EWH-1	50	40	140	15	208/3/60	41.6	A.O. SMITH	DRE-52	229

NOTES:

1. REFER TO INSTALLATION DETAIL AND MANUFACTURER'S MANUAL DETAILS AND INSTRUCTIONS FOR COMPLETE INSTALLATION REQUIREMENTS.
2. VERIFY ALL SERVICE CLEARANCES AROUND EQUIPMENT BEFORE INSTALLATION.
3. ALL UNIT CONTROLLER AND WIRING SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
4. PROVIDE MULTIPLE UNIT FACTORY CONTROLLER FOR INTERLOCK CONTROLLER.
5. PROVIDE ALL ACCESSORIES AND COMPONENTS REQUIRED TO INTERLOCK WITH BAS.
6. PROVIDE EXPANSION TANK FOR EACH GROUP OF WATER HEATERS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.

THERMOSTATIC MIXING VALVE SCHEDULE

UNIT TAG NO.	THERMOSTATIC MIXING VALVE PERFORMANCE				ELECTRICAL			BASIS OF DESIGN	
	FLOW RATE (GPM)	PRESSURE DROP (PSI)	INLET / OUTLET SIZES	LEAVING WATER TEMP. (F)	VOLTAGE	PH.	HZ.	MANUFACTURER	MODEL
TMV-1	28	1.25	1" / 1 1/4"	120	120	1	60	POWERS	IS2100VL

NOTES:

1. PROVIDE A COMPLETE AND FULLY OPERATIONAL CONTROL SYSTEM TO OPERATE THE TMV'S. INTERLOCK WITH BAS.
2. ALL TMV TO BE HIGH/LOW THERMOSTATIC MIXING VALVES.
3. ALL THERMOSTATIC MIXING VALVES TO BE PROVIDED WITH SS CABINETS, PIANO HINGED DOORS AND TO BE LOCKABLE
4. ALL UNITS TO BE PROVIDED WITH WALL MOUNTING BRACKETS, VACCUM BREAKERS, TOP SUPPLIES AND BE FACTORY ASSEMBLED AND TESTED OPTIONAL EXTERNAL NETWORK ADAPTER.
5. PROVIDE VALVE FITTINGS AND ISOLATION VALES, PRESSURE GAUGES, INLET COMBINATION BALL VALVE, STRAINERS, INLET/RETURN CHECK VALVES, INLET SYSTEM BLEND AND RETURN LINE THERMOMETERS.
6. EQUIPMENT START-UP SHALL BE BY A MANUFACTURER'S CERTIFIED TECHNICIAN.
7. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

CIRCULATING PUMP SCHEDULE

UNIT TAG NO.	FLOW RATE (GPM)	HEAD (FT. WG.)	FLUID TEMP. (°F)	MOTOR HORSEPOWER	ELECTRICAL			BASIS OF DESIGN	
					V	PH	HZ	MANUFACTURER	MODEL
CP-1	5	5.00	120	0.08	120	1	60	BELL & GOSSETT	ECOCIRC XL 20-35

NOTES:

1. MOTORS TO BE ODP.
2. ALL VARIABLE SPEED MOTORS SHALL BE INVERTER DUTY RATED FOR VFD APPLICATIONS OR ECM.
3. PUMPS SHALL BE INLINE TYPE.
4. PUMPS SHALL BE ALIGNED BY FACTORY REPRESENTATIVE AFTER INSTALLATION OF PUMP & PIPING SYSTEM.
5. PUMP TO BE NON-OVERLOADING OVER OPERATING PUMP CURVE.
6. PUMP EFFICIENCY SHALL COMPLY WITH ASHRAE ENERGY CODE 90.1.
7. PROVIDE VARIABLE FREQUENCY DRIVE OR ECM MOTOR. SEE SPECIFICATIONS.
8. REFER TO MECHANICAL SEQUENCE OF OPERATIONS FOR CONTROLS & SENSORS.
9. PROVIDE AQUASTAT & INTERLOCK WITH PUMP.
10. INTERLOCK WITH BAS.

EXPANSION TANK SCHEDULE

UNIT TAG NO.	TANK TYPE	CAPACITY (GAL.)	BASIS OF DESIGN		COMMENTS
			MANUFACTURER	MODEL	
ET-1	BLADDER	23	TACO	CA90-125	CHILLED WATER EXPANSION TANK LOCATED IN MECHANICAL ROOM
ET-2	BLADDER	5	WATTS	PLT 12	DOMESTIC HOT WATER EXPANSION TANK LOCATED IN MECHANICAL ROOM

FURNISH AND INSTALL A THERMAL EXPANSION TANK, ASME RATED. IT SHALL HAVE FDA APPROVED BLADDER SUITABLE FOR DOMESTIC POTABLE HOT WATER APPLICATION. MAXIMUM WORKING PRESSURE OF 150 PSI, OPERATING TEMPERATURE OF 140 DEGREES., EPOXY GRAY EXTERIOR FINISH, AND MOUNTING BASE. IT SHALL BE FACTORY PRE-CHARGED AT 50 PSIG, AND THE CONTRACTOR SHALL CHARGE THE TANK FOR THE JOB SUPPLY PRESSURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SEE SCHEDULE FOR TANK VOLUME CAPACITIES.

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PLUMBING SCHEDULES

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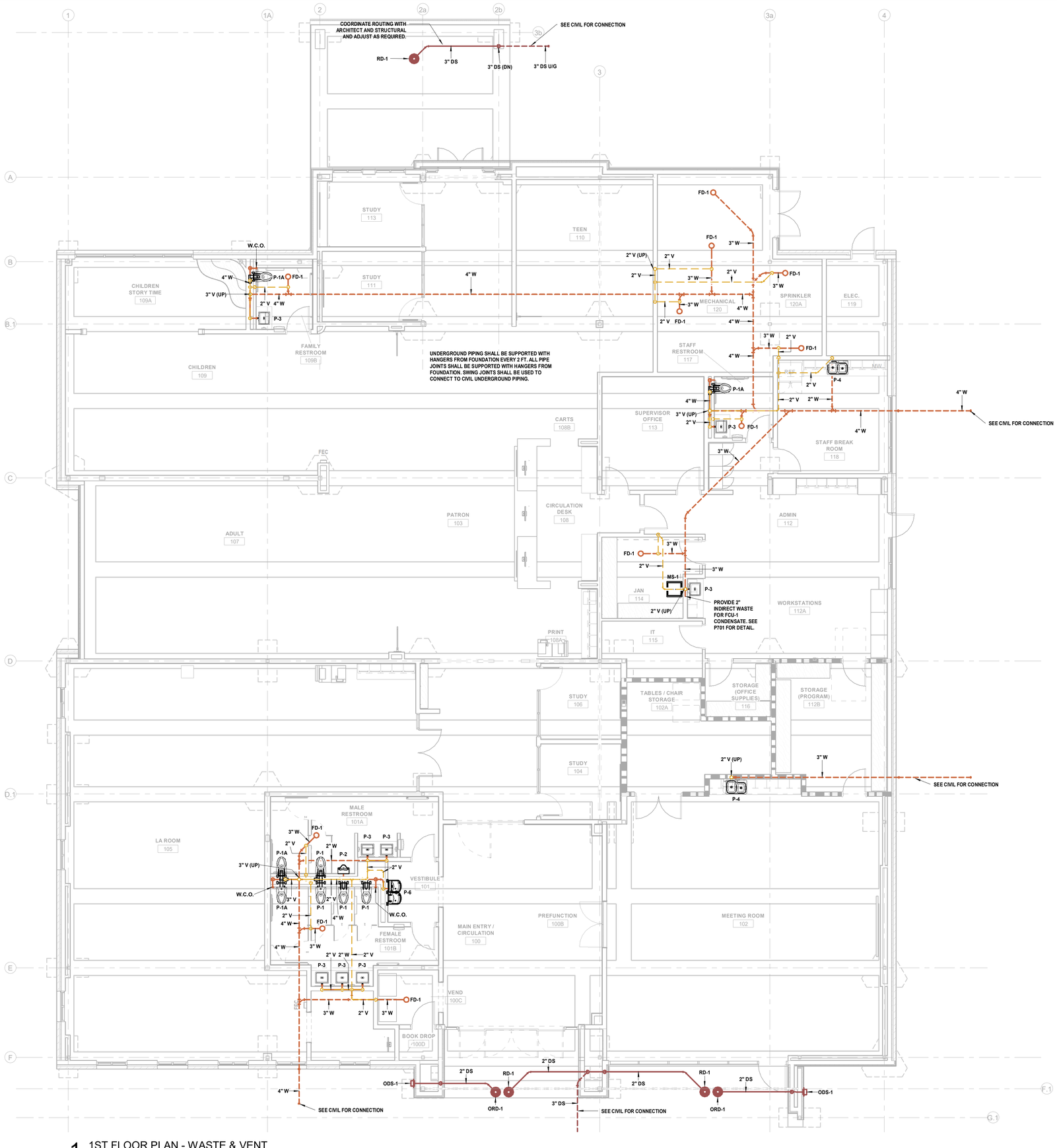

1 1ST FLOOR PLAN - WASTE & VENT
3/16" = 1'-0"

PLUMBING GENERAL NOTES:

1. PROVIDE 1/2" TRAP PRIMER TO FLOOR DRAINS (TYP.).
2. PROVIDE WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.
3. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELBOARDS, GEARS, ETC.
4. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER THE PLUMBING DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES & OTHER QUICK CLOSING VALVES ARE USED.
5. PROVIDE BALL VALVE SHUTOFF FOR EACH BATHROOM GROUP AND/ OR FIXTURE GROUP.
6. COORDINATE PLUMBING WASTE, VENT, AND DOMESTIC WATER PIPING WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO FRAMING WALLS. OFFSET AS REQUIRED TO FIT INTO WET WALLS.
7. PROVIDE CLEANOUTS AT THE BASE OF ALL RISERS IN ACCORDANCE WITH CURRENTLY ADOPTED CODES AND STANDARDS.
8. ALL UNDERGROUND DOMESTIC WATER PIPING SHALL BE POLYPROPYLENE (PP-R and PP-RCT) PIPING AND USE THE ELECTROFUSION JOINING METHOD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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FIRST FLOOR PLAN - WASTE & VENT

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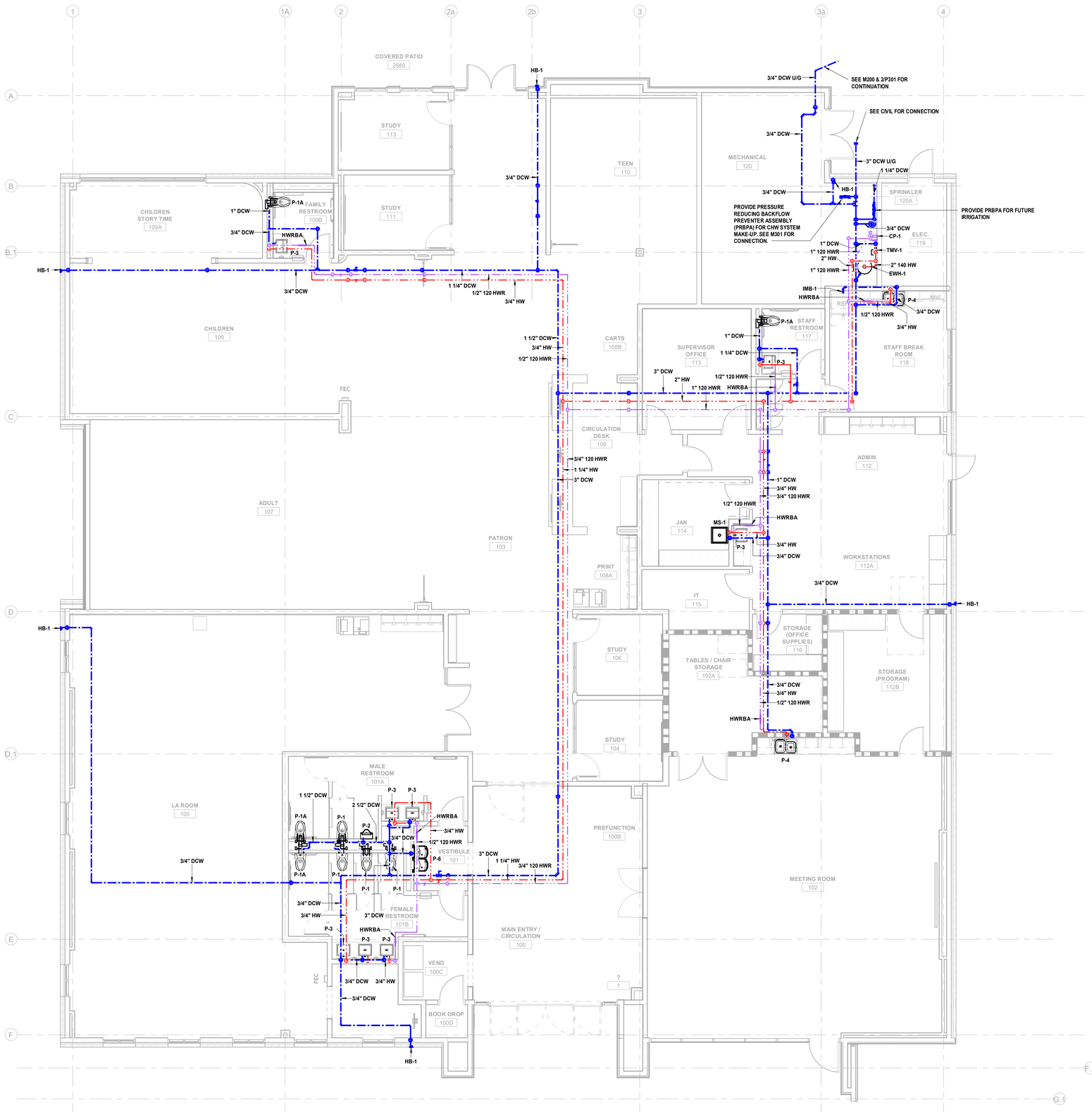
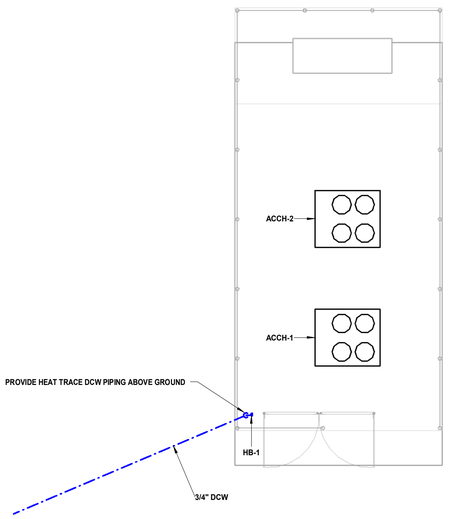


1 1ST FLOOR PLAN - DOMESTIC WATER
3/16" = 1'-0"



2 CHILLER PLANT - DOMESTIC WATER
1/8" = 1'-0"

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FIRST FLOOR PLAN - DOMESTIC WATER

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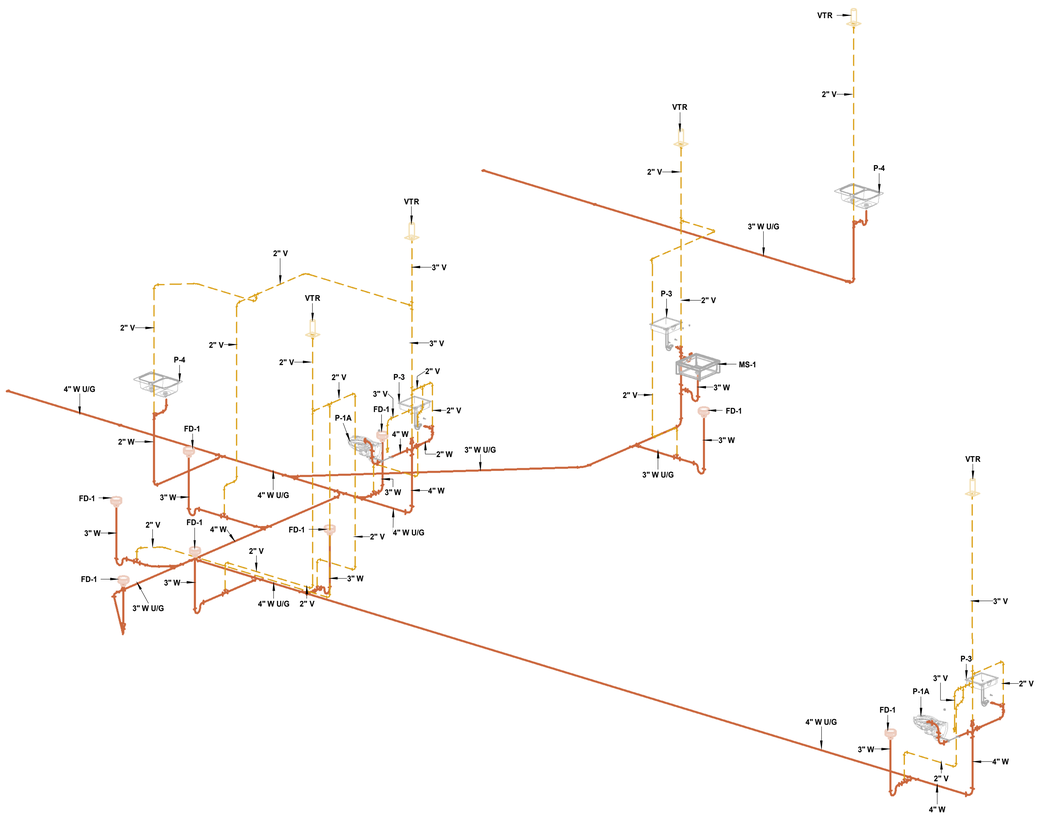
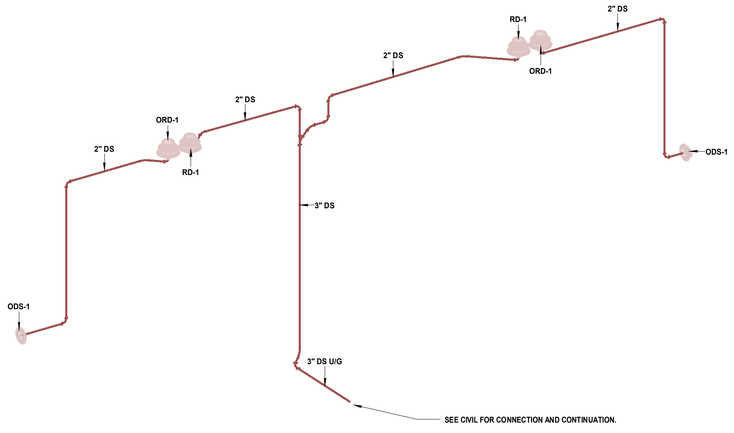
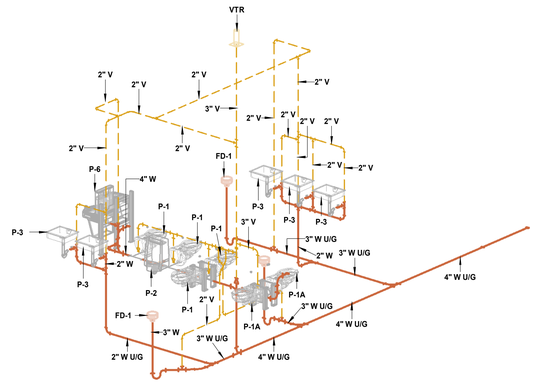


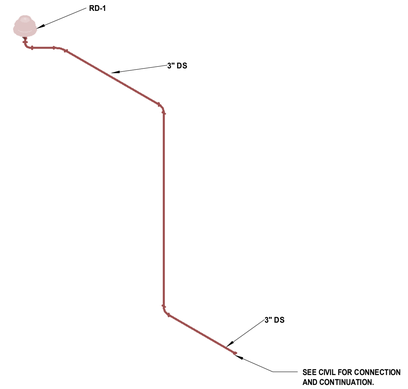
1 FIRST FLOOR PLAN - WASTE & VENT ISOMETRIC



2 FIRST FLOOR PLAN - ROOF DRAINAGE ISOMETRIC



3 FIRST FLOOR PLAN - ROOF DRAINAGE COVERED PATIO ISOMETRIC



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FIRST FLOOR PLAN - WASTE & VENT ISOMETRIC

SHEET NUMBER: P601

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By ZL
Drawn By ZL Checked By JL

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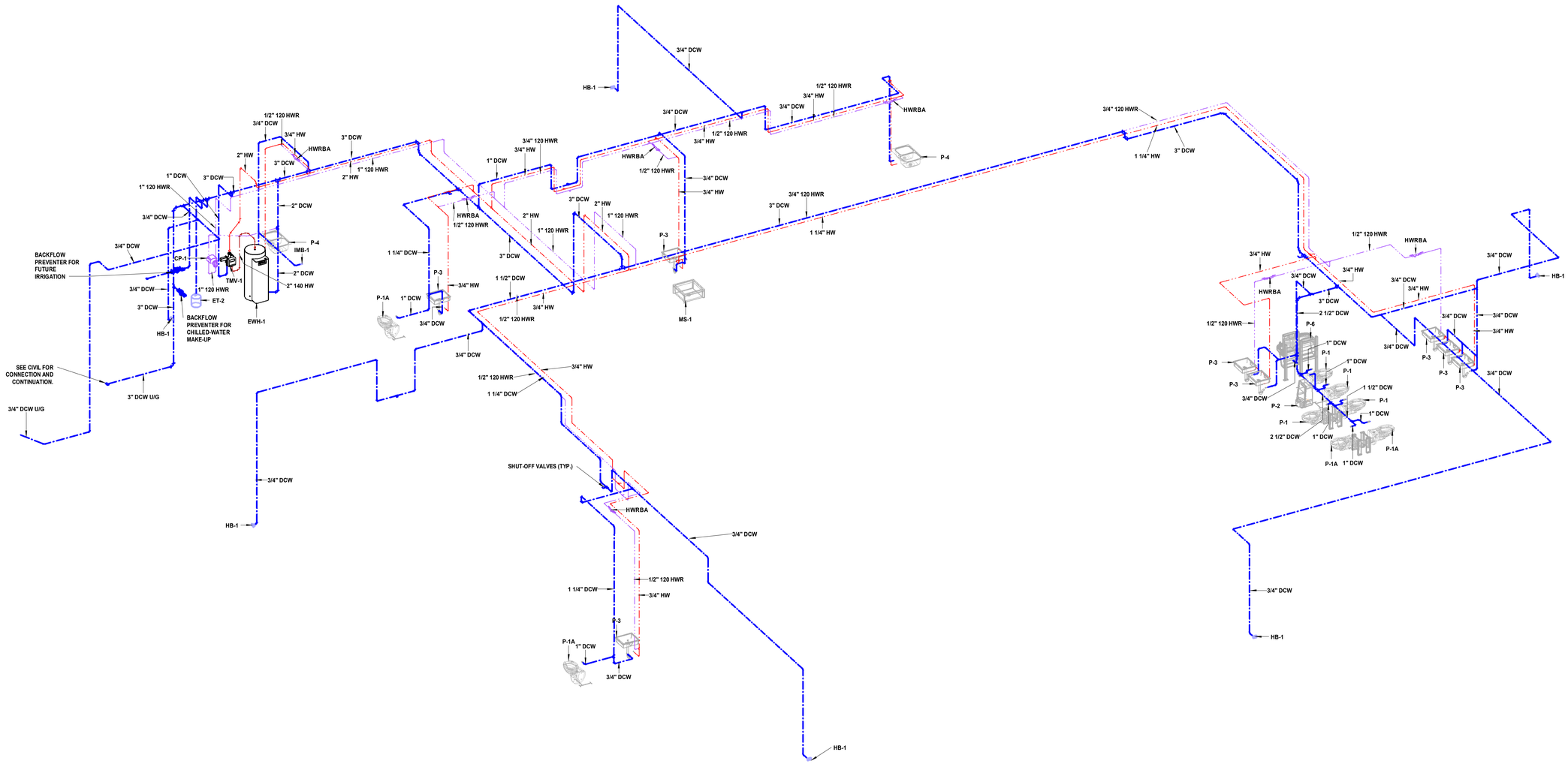
PLUMBING GENERAL NOTES:

1. PROVIDE 1/2" TRAP PRIMER TO FLOOR DRAINS (TYP.).
2. PROVIDE WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.
3. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELBOARDS, GEARS, ETC.
4. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER THE PLUMBING DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES & OTHER QUICK CLOSING VALVES ARE USED.
5. PROVIDE BALL VALVE SHUTOFF FOR EACH BATHROOM GROUP AND/ OR FIXTURE GROUP.
6. COORDINATE PLUMBING WASTE, VENT, AND DOMESTIC WATER PIPING WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO FRAMING WALLS. OFFSET AS REQUIRED TO FIT INTO WET WALLS.
7. PROVIDE CLEANOUTS AT THE BASE OF ALL RISERS IN ACCORDANCE WITH CURRENTLY ADOPTED CODES AND STANDARDS.
8. ALL UNDERGROUND DOMESTIC WATER PIPING SHALL BE POLYPROPYLENE (PP-R and PP-RCT) PIPING AND USE THE ELECTROFUSION JOINING METHOD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



1 FIRST FLOOR PLAN - DOMESTIC WATER ISOMETRIC

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FIRST FLOOR PLAN - DOMESTIC WATER ISOMETRIC

SHEET NUMBER
P602

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No: 2401501 Designed By: ZL
Drawn By: ZL Checked By: JL

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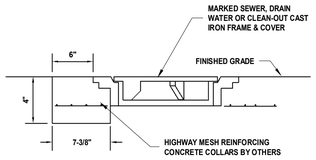
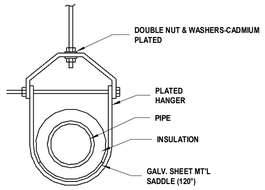


1 TYPICAL DETAIL - CLEANOUT COVER
NOT TO SCALE



2 TYPICAL DETAIL - CLEVIS HANGER
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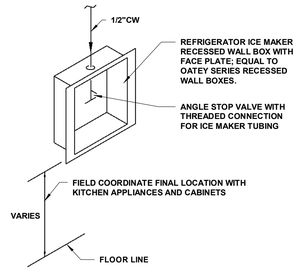

3 TYPICAL DETAIL - DOMESTIC WATER WALL BOX
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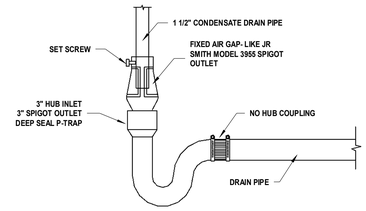

4 TYPICAL DETAIL - INDIRECT DRAIN
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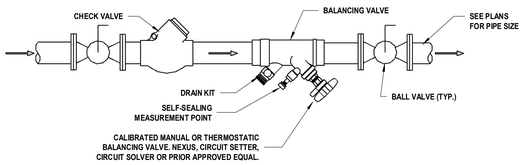
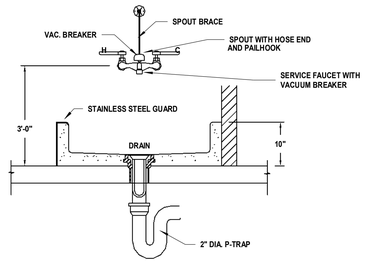
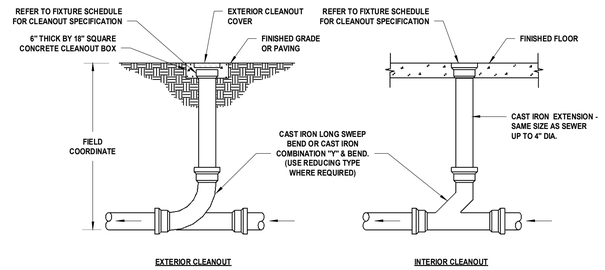


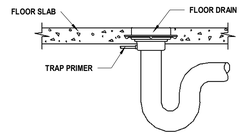
5 TYPICAL DETAIL - HWR BALANCING VALVE ASSEMBLY
NOT TO SCALE



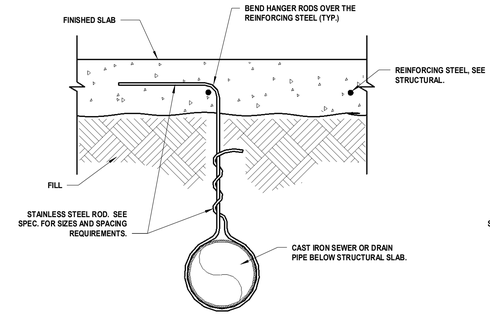
6 TYPICAL DETAIL - MOP BASIN
NOT TO SCALE

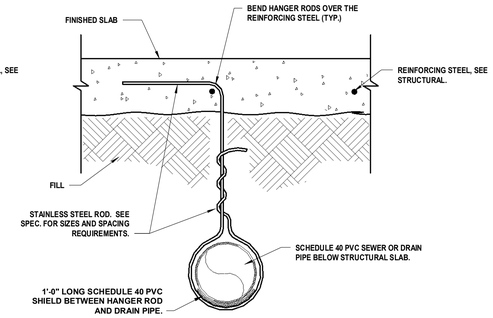


7 TYPICAL DETAIL - EXTERIOR AND INTERIOR CLEAN OUT
NOT TO SCALE

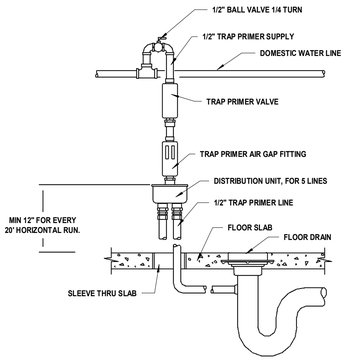


8 TYPICAL DETAIL - FLOOR DRAIN
NOT TO SCALE





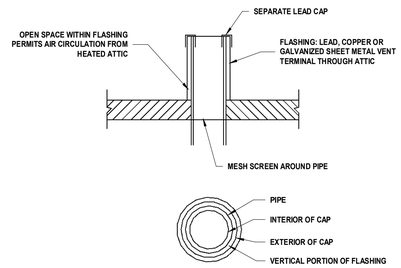
9 TYPICAL DETAIL - UNDERGROUND PIPE HANGER
NOT TO SCALE



NOTES:

1. FLOOR DRAINS SHALL BE PRIMED FROM THE NEAREST PLUMBING (SUCH AS A KITCHEN SINK, UTILITY SINK, ETC.) THAT PRODUCE A SUFFICIENT PRESSURE DROP TO ACTIVATE THE TRAP PRIMER. THEY SHALL NOT BE PRIMED FROM A LOW FLOW FIXTURES SUCH AS A LAVATORY.
2. PROVIDE ACCESS PANEL AT ALL CONCEALED TRAP PRIMERS.

12 TYPICAL DETAIL - TRAP PRIMER
NOT TO SCALE



13 TYPICAL DETAIL - VENT THRU ROOF PENETRATION
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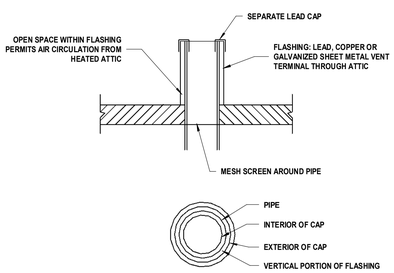

11 TYPICAL DETAIL - ROOF PENETRATION
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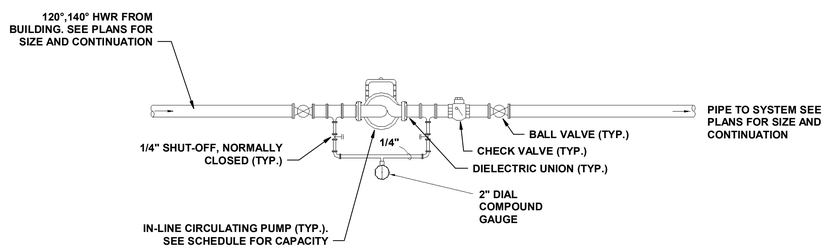

10 TYPICAL DETAIL - HWR CIRCULATING PUMP
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PLUMBING DETAILS

SHEET NUMBER
P701

HUSEMAN MEP ENGINEERS 20 YEARS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By ZL
Drawn By ZL Checked By JL

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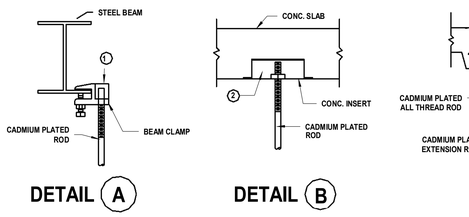
HANGER SCHEDULE			
COPPER TUBING	SUPPORT SPACING	ROD SIZE	NOTES
3/4" AND SMALLER	5'-0" O.C.	3/8"	
1"	6'-0" O.C.	3/8"	
1 1/4"	7'-0" O.C.	3/8"	
1 1/2"-2"	8'-0" O.C.	3/8"	
2 1/2"	9'-0" C.O.	1/2"	
3"	10'-0" O.C.	1/2"	
4"	12'-0" O.C.	1/2"	
STEEL PIPE			
1 1/4" AND SMALLER	7'-0" O.C.	3/8"	
1 1/2"-2 1/2"	9'-0" C.O.	3/8"	
3"	12'-0" O.C.	1/2"	
4"	14-0" O.C.	5/8"	
5"	16-0" O.C.	5/8"	
6"	17-0" O.C.	3/4"	
8"-10"	19'-0" O.C.	7/8"	
CAST IRON PIPE			
4" AND SMALLER	5'-0" O.C. & AT EVERY JOINT	3/8"	
5" & 6"	5'-0" O.C. & AT EVERY JOINT	1/2"	10FT. MAX SPACING: ONE PIPE SECTION
8" AND LARGE	5'-0" O.C. & AT EVERY JOINT	3/4"	AT JOINTS AND AT CHANGE OF DIRECTION AND BRANCH CONNECTION
DUCTILE IRON PIPE			
20FT. MAX SPACING: MIN OF ONE (1) HANGER PER PIPE SECTION CLOSE TO THE JOINT BEHIND THE BELL AND AT CHANGE OF DIRECTION AND BRANCH CONNECTIONS.			
INSERT DESCRIPTION			
(1) ELCEN MOD. #239L BEAM CLAMP	SEE DETAIL A,D		
(2) ELCEN MOD. #86 CONC. INSERT	SEE DETAIL B		
(3) HILTI QUICK BOLT OR EQUAL	SEE DETAIL F,G		

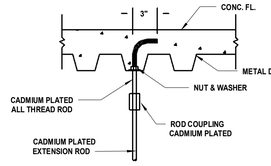
NOTES:

1. RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS WITH 3/8 IN. MINIMUM DIAMETER.
2. HANGERS ON INSULATED SYSTEMS SHALL INCORPORATE PROTECTION SADDLES OR SHIELDS OR SHALL BE CLAMPED OR WELDED TO THE PIPE AND PROJECT THROUGH THE INSULATION TO PROVIDE EXTERNAL ATTACHMENT.

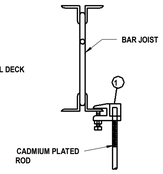


DETAIL A

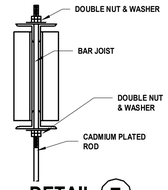
DETAIL B



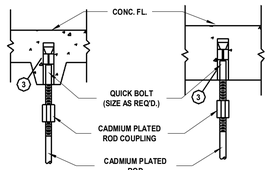
DETAIL C



DETAIL D

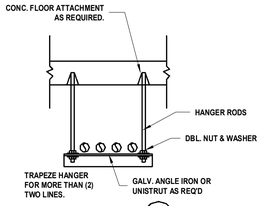


DETAIL E

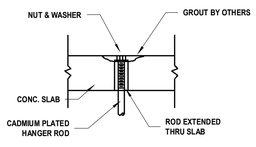


DETAIL F

DETAIL G



DETAIL H



DETAIL I

TYPES:

- (A) STEEL CONSTRUCTION
- (B) STRUCT. CONC. CONST.
- (C) STEEL WIMETAL DECK
- (D) BAR JOIST
- (E) BAR JOIST
- (F) METAL DECK & CONC.
- (G) CONC. CONST.
- (H) TYPICAL TRAPEZE
- (I) CONC. CONST.

1 TYPICAL DETAIL - PLUMBING HANGER SCHEDULE
NOT TO SCALE

TYPICAL PIPE / EQUIPMENT SUPPORT NOTES:

ALL VERTICAL RISERS INCLUDING CHILLED WATER, HEATING HOT WATER, DOMESTIC HOT AND COLD WATER, DOMESTIC HOT WATER RETURN, STEAM, STEAM CONDENSATE, ICE BUILDER WATER, CONDENSER WATER, ETC SHALL BE SUPPORTED BY SPRING ISOLATORS DESIGNED TO SUPPORT THE RISER FILLED WITH WATER, IF IT IS A WATER LINE. ASSIGNED LOADS MUST BE WITHIN THE BUILDING DESIGN LIMITS AT THE SUPPORT POINTS. NEUTRAL CENTRAL RESILIENT ANCHORS CLOSE TO THE CENTER OF THE RUN SHALL DIRECT MOVEMENT UP AND DOWN. THE ANCHORS SHALL BE CAPABLE OF HOLDING AN UPWARD FORCE EQUAL TO THE WATER WEIGHT WHEN THE SYSTEM IS DRAINED. IF ONE LEVEL CANNOT ACCOMMODATE THIS FORCE, ANCHORS CAN BE LOCATED ON 2 OR 3 ADJACENT FLOORS. RESILIENT GUIDES SHALL BE SPACED AND SIZED PROPERLY DEPENDING ON THE PIPE DIAMETER. SUBMITTALS MUST INCLUDE THE INITIAL LOAD, INITIAL DEFLECTION, CHANGE IN DEFLECTION, FINAL LOAD AND CHANGE IN LOAD AT ALL SPRING AND ANCHOR SUPPORT LOCATIONS, AS WELL AS GUIDE SPACING. THE INITIAL SPRING DEFLECTION SHALL BE A MINIMUM OF 0.75" OR FOUR TIMES THE THERMAL MOVEMENT AT THE ISOLATOR LOCATION, WHICHEVER IS GREATER. CALCULATIONS SHALL INCLUDE PIPE STRESS AT END CONDITIONS AND BRANCH OFF LOCATIONS AND THE MANUFACTURER MUST INCLUDE INSTALLATION INSTRUCTIONS.

SUPPORT SPRING MOUNTINGS

SPRING ISOLATORS SHALL BE FREE STANDING AND LATERALLY STABLE WITHOUT ANY HOUSING AND COMPLETE WITH A MOLDED NEOPRENE CUP OR 1/4" NEOPRENE ACOUSTICAL FRICTION PAD BETWEEN THE BASEPLATE AND THE SUPPORT. ALL MOUNTINGS SHALL HAVE LEVELING BOLTS THAT MUST BE RIGIDLY BOLTED TO THE EQUIPMENT. INSTALLED AND OPERATING HEIGHTS SHALL BE EQUAL. THE RATIO OF THE SPRING DIAMETER DIVIDED BY THE COMPRESSED SPRING HEIGHT SHALL BE NO LESS THAN 0.8. SPRINGS SHALL HAVE A MINIMUM ADDITIONAL TRAVEL TO SOLID EQUAL TO 50% OF THE RATED DEFLECTION. SUBMITTALS SHALL INCLUDE SPRING DIAMETERS, DEFLECTION, COMPRESSED SPRING HEIGHT AND SOLID SPRING HEIGHT. MOUNTINGS SHALL BE TYPE SLF, AS MANUFACTURED BY MASON INDUSTRIES, INC OR EQUAL.

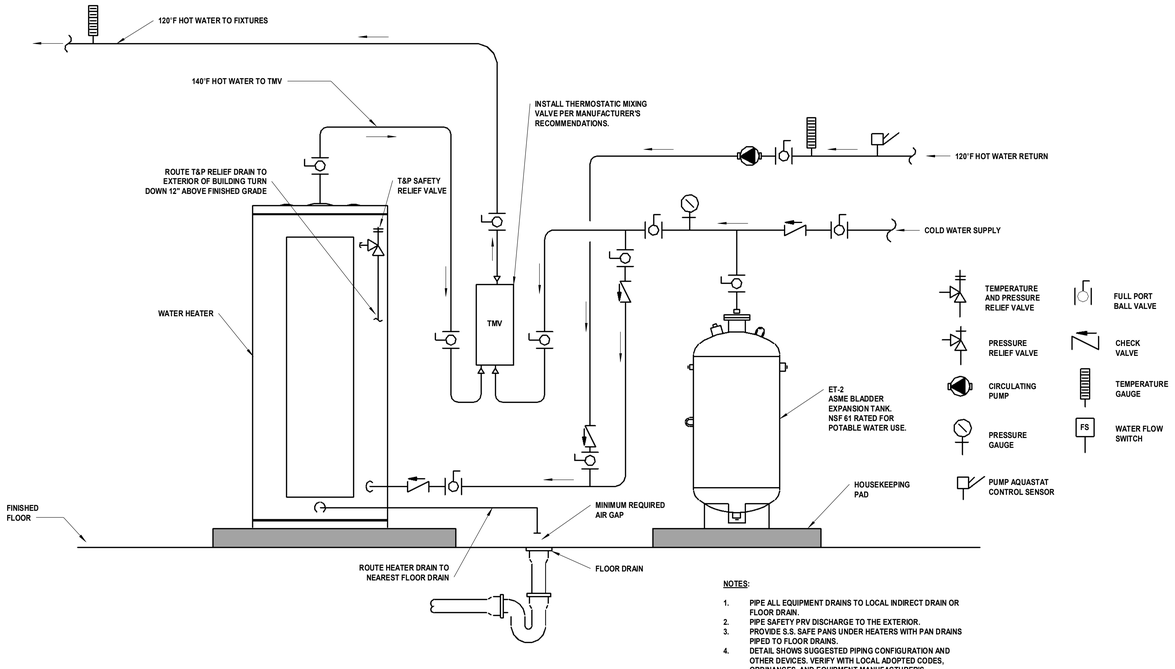
ANCHORS

ALL DIRECTIONAL ACOUSTICAL PIPE ANCHORS, CONSIST OF TWO SIZES OF STEEL TUBING SEPARATED BY A MINIMUM 1/2"THICKNESS OF 60 DURO OR SOFTER NEOPRENE. VERTICAL RESTRAINT SHALL BE PROVIDED BY SIMILAR MATERIAL ARRANGED TO PREVENT UP OR DOWN VERTICAL TRAVEL. ALLOWABLE LOADS ON THE ISOLATION MATERIAL SHALL NOT EXCEED 500 PSI AND THE DESIGN SHALL BE BALANCED FOR EQUAL RESISTANCE IN ANY DIRECTION. ALL DIRECTIONAL ANCHORS SHALL BE TYPE ADA AS MANUFACTURED BY MASON INDUSTRIES, INC OR EQUAL.

TELESCOPING GUIDES

PIPE GUIDES SHALL CONSIST OF A TELESCOPIC ARRANGEMENT OF TWO SIZES OF STEEL TUBING SEPARATED BY A MINIMUM 1/2" THICKNESS OF 60 DUROMETER OR SOFTER NEOPRENE. THE HEIGHT OF THE GUIDES SHALL BE PRESET WITH A SHEAR PIN TO ALLOW VERTICAL MOTION DUE TO PIPE EXPANSION OR CONTRACTION. GUIDES SHALL BE CAPABLE OF "1-5/8" MOTION, OR TO MEET LOCATION REQUIREMENTS. PIPE GUIDES SHALL BE TYPE VSG AS MANUFACTURED BY MASON INDUSTRIES, INC OR EQUAL.

SEE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.



NOTES:

1. PIPE ALL EQUIPMENT DRAINS TO LOCAL INDIRECT DRAIN OR FLOOR DRAIN.
2. PIPE SAFETY PRV DISCHARGE TO THE EXTERIOR.
3. PROVIDE S.S. SAFE PANS UNDER HEATERS WITH PAN DRAINS PIPED TO FLOOR DRAINS.
4. DETAIL SHOWS SUGGESTED PIPING CONFIGURATION AND OTHER DEVICES. VERIFY WITH LOCAL ADOPTED CODES, ORDINANCES, AND EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

2 TYPICAL DETAIL - WATER HEATER WITH RECIRC PIPING SCHEMATIC
NOT TO SCALE

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PLUMBING DETAILS

SHEET NUMBER: P702

HUSEMAN MEP ENGINEERS 20 YEARS
3501 N. CAUSEWAY BLVD, SUITE 710
METAIRIE LA 70002 504.456.3119

Job No. 2401501 Designed By ZL
Drawn By ZL Checked By JL

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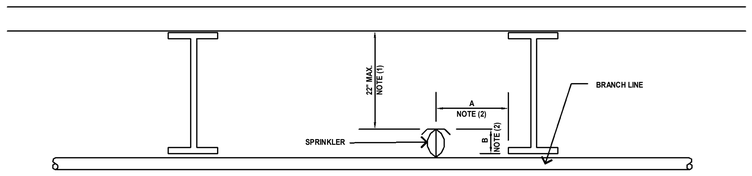


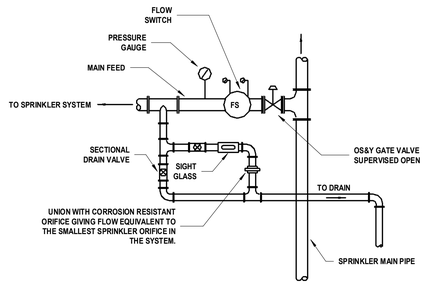
SPRINKLER DEFLECTOR DISTANCE DETAIL

SCALE: N.T.S.

OBSTRUCTED CONSTRUCTION NOTES (NFPA-13)

1. UNDER OBSTRUCTED CONSTRUCTION, THE SPRINKLER DEFLECTOR SHALL BE LOCATED WITHIN THE HORIZONTAL PLANES OF 1" TO 6" BELOW THE STRUCTURAL MEMBERS AND A MAXIMUM DISTANCE OF 22" BELOW ROOF/ CEILING DECK.
2. SPRINKLERS SHALL BE PERMITTED TO BE INSTALLED WITH THE DEFLECTOR AT OR ABOVE THE BOTTOM OF THE STRUCTURAL MEMBER TO A MAXIMUM OF 22" BELOW THE ROOF/ CEILING DECK WHERE THE SPRINKLER IS INSTALLED IN CONFORMANCE WITH THE CHART.

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (IN.) (B)
LESS THAN 1 FT.	0
NE FT. TO LESS THAN 1 FT. 6 IN.	2-1/2
1 FT. 6 IN. TO LESS THAN 2 FT.	3-1/2
2 FT. TO LESS THAN 2 FT. 6 IN.	5-1/2
2 FT. 6 IN. TO LESS THAN 3 FT.	7-1/2
3 FT. TO LESS THAN 3 FT. 6 IN.	9-1/2
3 FT. 6 IN. TO LESS THAN 4 FT.	12
4 FT. TO LESS THAN 4 FT. 6 IN.	14
4 FT. 6 IN. TO LESS THAN 5 FT	16-1/2
5 FT. AND GREATER	18



SPRINKLER CONTROL VALVE (SCV) ASSEMBLY

SCALE: N.T.S.

FIRE PROTECTION LEGEND:

MARK	DESCRIPTION
○	UPRIGHT SPRINKLER
●	PENDENT SPRINKLER
△ DSW	DRY SIDEWALL SPRINKLER
△	HORIZONTAL SIDEWALL SPRINKLER
● DP	DRY PENDENT SPRINKLER (FULLY CONCEALED)
⋈	FLOOR CONTROL VALVE WITH TAMPER SWITCH
⊢	FLOW SWITCH
⋈	MANUAL STANDPIPE RISER WITH 2-1/2" FIRE DEPT VALVE
T/S	TAMPER SWITCH
F/S	FLOW SWITCH
FP	SPRINKLER PIPE
F/W	DOMESTIC WATER/FIRE WATER SUPPLY
LH	LIGHT HAZARD DENSITY
OH-G1	ORDINARY HAZARD-GROUP 1 DENSITY

SPRINKLER DESIGN REQUIREMENTS:

SPRINKLER SYSTEMS SHALL BE DESIGNED AND INSTALLED PER NFPA-13, NFPA-14 & NFPA-20, CONTRACT SPECIFICATIONS, LA STATE FIRE MARSHAL, FACTORY MUTUAL GUIDE LINES, AND LOCAL AUTHORITIES HAVING JURISDICTION.

DESIGN CRITERIA:
A. TYPE OF SYSTEM- WET
ORDINARY GROUP 1 HAZARD FOR INDICATED AREAS
0.15 GPM/SQ. FT. OVER 1500 SQ FT + 250 GPM HOSE ALLOWANCE
COVERAGE PER SPRINKLER-130 SQ., FT MAX

B. TYPE OF SYSTEM- WET
LIGHT HAZARD FOR AREAS INDICATED
0.10 GPM/SQ FT. OVER 1500 SQ FT + 100 GPM HOSE ALLOWANCE.
COVERAGE PER SPRINKLER- 225 SQ. FT. MAX.

NOTE:
MECH. DUCTS, WALLS, AND STRUCTURAL STEEL, ETC, SHALL BE CONSIDERED FOR SPRINKLER SPACING. SPRINKLERS SHALL BE INSTALLED UNDER ANY MECHANICAL DUCT OVER 4'-0" IN WIDTH. SPRINKLERS UNDER DUCT ARE NOT REQUIRED TO BE INCLUDED IN HYDRAULIC CALCULATIONS.

PROVIDE SPRINKLER PRODUCTS BEARING FM APPROVAL LABEL.

PROVIDE FIRE SPRINKLER PIPING PRODUCTS WHICH HAVE BEEN APPROVED AND LISTED BY UNDERWRITERS LABORATORIES.

PENDANT SPRINKLERS IN DROP CEILING AREAS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING TILE.

PIPE SPECS:
ALL PIPING SHALL BE BLK. SCH. 40 UNO.

FITTING SPECS:
150# MALLEABLE IRON BLACK FITTINGS FOR SCREWED PIPE.
LINE OUTLETS TO BE SHOP WELDED PIPE-O-LETS.
GROOVED FITTINGS AND COUPLINGS FOR GROOVED END PIPE.

SPRINKLER SPECS:
FOR AREAS DESCRIBED, THE FOLLOWING SPRINKLER HEADS SHALL BE USED.

A. GYPSUM BOARD CEILINGS, LAY-IN CEILINGS AND FURRINGS:
QUICK-RESPONSE, CONCEALED RECESSED PENDANT WITH FACTORY PREFINISHED COVER PLATE SHALL BE SCREW TYPE NOT SNAP TYPE.

B. AREAS WITHOUT CEILINGS: QUICK-RESPONSE, UPRIGHT PENDANT TYPE WITH SPRINKLER HEAD PROTECTIONS GUARDS.

NOTE: ALL SPRINKLERS SHALL HAVE TEMP. RATING IN ACCORDANCE WITH NFPA- 13 AND SPRINKLERS HEADS TO BE QUICK RESPONSE SPRINKLER HEADS.

ALL PENETRATIONS OF FIRE RATED WALLS AND SLABS SHALL BE SEALED IN COMPLIANCE FOR FIRE RATED GYPSUM WALL ASSEMBLIES AND FOR CONCRETE FLOORS AND WALLS.

ALL FIRE PROTECTION PIPING SHALL BE TESTED AT 200 PSI. FOR A DURATION OF NOT LESS THAN 2 HOURS ACCORDANCE WITH NFPA #24.

PROVIDE DRAINS AS REQUIRED.

SUPERVISORY AND FLOW ALARMS SHALL BE CONNECTED TO BUILDING FIRE ALARM.

AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM NOTES:

1. SCOPE OF FIRE PROTECTION WORK IS TO MODIFY THE EXISTING FIRE SPRINKLER SYSTEM AS NECESSARY AS PART OF THE FACILITY RENOVATION. SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO RELOCATE OR REPLACE EXISTING SPRINKLER SYSTEM PIPING AND COMPONENTS.
2. ALL AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM WORK INCLUDING DESIGN SHALL BE PERFORMED BY A LOUISIANA STATE CERTIFIED FIRE PROTECTION DESIGNER/CONTRACTOR PROPERLY CERTIFIED BY THE STATE FIRE MARSHAL.
3. ALL FIRE PROTECTION EQUIPMENT AND MATERIALS SHALL BE FACTORY MUTUAL APPROVED AND UL LABELED/LISTED.
4. THE SPRINKLER DESIGNER/CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING EQUIPMENT CUT SHEETS, MATERIAL CUT SHEETS, CALCULATIONS AND SHOP DRAWINGS TO THE STATE FIRE MARSHAL FOR APPROVAL ACCORDING TO THE FIRE MARSHAL PROCEDURES. SPRINKLER DESIGNER/CONTRACTOR SHALL OBTAIN ALL FIELD DIMENSIONS AND FIELD INFORMATION OF ALL CONDITIONS AND DOCUMENT ON HIS SHOP DRAWINGS. ANY AND ALL INFORMATION REQUIRED TO PROPERLY COMPLETETHE DESIGN OF THE NEW SYSTEM MUST BE OBTAINED IN THE FIELD BY THE SPRINKLER DESIGNER/CONTRACTOR. SPRINKLER DESIGNER/CONTRACTOR SHALL COMPLETE FULLY THE REQUIRED REVIEW APPLICATION(CURRENT EDITION) ANDTHE CHECKLIST (CURRENT EDITION) AND PAY ALL ASSOCIATED FEES. SUBMIT TO FIRE MARSHAL AFTER ARCHITECT/ENGINEER HAS REVIEWED AND APPROVED SUBMITTAL PACKAGE. A COMPLETED STATE FIRE MARSHAL "SPRINKLER SUBMITTAL REVIEW CHECKLIST" MUST BE INCLUDED IN THE SUBMITTAL PACKAGE. ADDRESS EACH CHECKLIST ITEM IN THE SUBMITTAL PACKAGE.
5. SPRINKLER CONTRACTOR SHALL TEST AND INSPECT SPRINKLER SYSTEM TO VERIFY WATER TIGHTNESS AND PROPER PERFORMANCE AFTER INSTALLATION IS COMPLETE. SPRINKLER CONTRACTOR SHALL DEMONSTRATE THE OPERATION AND PERFORMANCE OF THE SYSTEM AS REQUIRED BY STATE AND LOCAL INSPECTORS FOR AUTHORITIES HAVING JURISDICTION.
6. ALL SPRINKLER SYSTEM DESIGN CRITERIA SHALL CONFORM TO NFPA 13.
7. SPRINKLER INSTALLER SHALL CERTIFY IN WRITING TO THE ARCHITECT THAT ALL SPRINKLER WORK HAS BEEN INSTALLED IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS, WITH NFPA 13 AND ALL STATE FIRE MARSHAL REQUIREMENTS. CERTIFICATION SHALL BE ON CORPORATE LETTERHEAD AND SHALL BE SIGNED BY THE INSTALLATION SUPERVISOR AND BY A CORPORATE PRINCIPAL. CORPORATE OFFICER OF THE GENERAL CONTRACTOR SHALL ALSO ENDORSE THE CERTIFICATION. WRITTEN CERTIFICATION MUST BE SUBMITTED BEFORE PROJECT CAN BE CONSIDERED SUBSTANTIALLY COMPLETE.
8. SPRINKLER CONTRACTOR SHALL SUBMIT SPRINKLER HEAD LAYOUT TO THE ARCHITECT FOR APPROVAL PRIOR TO PERFORMING FINAL ENGINEERING. HEADS IN ALL FINISHED AREAS SHALL BE LOCATED AND ARRANGED WITH FULL CONSIDERATION OF THE ARCHITECTURAL ELEMENTS OF THE SPACES. HEADS SHALL BE CENTERED WHERE APPROPRIATE FOR VISUAL REASONS. HEADS SHALL BE LOCATED IN RELATION TO WALLS, AIR WALLS, CEILING OFFSETS, FURR DOWNS, DECORATIVE ELEMENTS, COLUMNS, BAY SPACING AND OPENINGS. RANDOM, INCONSISTENT SPRINKLER HEAD LAYOUTS NOT ACCEPTABLE. IF REQUIRED, ADDITIONAL HEADS ABOVE AND BEYOND THE MINIMUM REQUIRED BY CODE AND ENGINEERING DESIGN SHALL BE PROVIDED TO RESULT IN A LOGICAL, ORDERLY AND VISUALLY PLEASING LAYOUT. SHOP DRAWINGS SHALL BE DRAWN TO SCALE IN AUTOCAD FORMAT TO ACCOMMODATE THE ARCHITECT'S REVIEW.
9. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS.
10. REFER TO SECTION 21 1100 FOR ADDITIONAL FIRE PROTECTION SPECIFICATIONS.
11. IT SHALL BE THE RESPONSIBILITY OF THE DESIGNER TO, DETERMINE THE HAZARD CLASSIFICATION OF THE SPRINKLER SYSTEM AND IDENTIFY THE HAZARD CLASSIFICATION IN THE CONTRACT DOCUMENTS. HAVE PERFORMED A FLOW TEST DURING THE SCHEMATIC DESIGN PHASE TO DETERMINE THAT THE QUANTITY AND PRESSURE OF THE WATER IS SUFFICIENT FOR THE SPRINKLER SYSTEM (WITH A MANDATORY 15 POUND CUSHION), SHOW THE LOCATION WHERE THE FIRE LINE ENTERS THE BUILDING, THE LOCATION OF THE FIRE DEPARTMENT CONNECTION, THE LOCATION OF THE SPRINKLER HEADS THROUGHOUT THE BUILDING AND, WHERE REQUIRED, THE LOCATION OF THE FIRE PUMP, DRY PIPE VALVES, AND FULLY SPECIFY THE CONSTRUCTION MATERIALS REQUIRED FOR THE SPRINKLER SYSTEM. THE SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS TO THE DESIGN PROFESSIONAL FOR HIS REVIEW AND APPROVAL. THE DESIGN PROFESSIONAL SHALL SUBMIT THE SHOP DRAWINGS BEARING THE DESIGN PROFESSIONALS SHOP DRAWING REVIEW STAMP TO THE FIRE MARSHAL'S OFFICE AFTER IT IS DETERMINED BY THE DESIGNER THAT THE DESIGN IS CORRECT. PLANS SHALL SHOW ALL AREAS PROTECTED BY SPRINKLERS AND ALTERNATIVE FORMS OF SUPPRESSION AS WELL AS AREAS THAT NEED SPECIAL CONSIDERATION SUCH AS DRY PIPE AREAS, ANTI-FREEZE AREAS, PIPE ROUTES THROUGH UNHEATED AREAS, ETC.
12. ALL UNDERGROUND PIPING SHALL BE HDPE OR POLYPROPYLENE (PP-R and PP-RCT) TYPE. REFER TO SPECIFICATIONS 23 0518 AND 23 2130. ALL UNDERGROUND PIPING SHALL USE THE ELECTROFUSION METHOD.
13. ALL ABOVEGROUND PIPING SHALL BE BLACK STEEL SCHEDULE 40 PIPE AND SHALL BE PAINTED RED.
14. COORDINATE CEILING HEIGHT WITH ARCHITECTURAL PLANS. IF THERE IS A CONFLICT THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE.
15. ALL SPRINKLER LINES (MAINS & BRANCHES) SHALL BE SUPPORTED FROM THE STRUCTURE AND NO OTHER DISCIPLINES CAN UTILIZE THE SAME SUPPORTS AS FIRE PROTECTION.
16. ALL JOINTS SHALL BE WELDED, FLANGED, SCREWED OR GROVED. MECHANICAL FITTINGS ARE NOT ALLOWED.
17. UNDERGROUND TRANSITION RISER SHALL BE INSTALLED AS INDICATED ON THE PLANS. RISER SHALL BE COMPOSED OF A SINGLE EXTENDED 90 DEGREES FITTING OF FABRICATED 304 STAINLESS STEEL TUBING, MAXIMUM WORKING PRESSURE 200PSI. THE FITTING SHALL HAVE A GROOVED-END CONNECTION ON THE OUTLET (BUILDING SIDE. THE GROOVED END SHALL INCLUDE A COUPLER AND CAP TO FACILITATE TESTING OF THE UNDERGROUND PIPING. THE TRANSITION RISER SHALL BE A 'WATTS SERIES TR' OR APPROVED EQUAL.
18. FIRE DEPARTMENT CONNECTION AND TEST HEADER (EXTERIOR OF WALL) SHALL BE PLACED AS PER NFPA 13. FIRE DEPARTMENT CONNECTION SHALL BE BETWEEN MIN. OF 18" TO MAX. OF 42" FROM THE EXTERIOR GRADE (ELEVATION).

NOTES TO CONTRACTOR:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTION OF FIRE PROTECTION SYSTEM EQUIPMENT, AS WELL AS, PIPE SIZING AND LAYOUT. INSTALLATION OF SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARSD INCLUDING, BUT NOT LIMITED TO, NFPA 13, NFPA 14, AND NFPA 20.
2. CONTRACTOR SHALL INCLUDE AN ADDITIONAL 10% OF SPRINKLER HEADS TO THE OVERALL AMOUNT OF SPRINKLER HEADS REQUIRED FOR THIS PROJECT.
3. SPRINKLER PIPING SHALL RUN 6 INCHES (MIN.) ABOVE CEILING.
4. COORDINATE FINAL LOCATION OF SPRINKLER HEADS WITH ARCHITECTURAL REFLECTIVE CEILING PLANS (RCP). HEADS SHALL BE LOCATED IN THE CENTER OF CEILING TILES UNLESS OTHERWISE APPROVED BY THE ARCHITECT.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SPRINKLER SYSTEM WITH ALL TRADES INCLUDING BUT NOT LIMITED TO OWNER PROVIDED IT SYSTEMS (I.E., CABLE ROUTING AND SUPPORT SYSTEMS). COORDINATED SHOP DRAWINGS SHALL BE PROVIDED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
6. OWNER WILL FURNISH AND INSTALL THE FOLLOWING SYSTEMS, INCLUDING THE RACEWAY AND ROUGH-INS: TELECOMMUNICATIONS, ACCESS CONTROL, AND CCTV. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROVIDE PROPER PATHWAY DESIGNATIONS AND SPACING BETWEEN TRADES PER THE OWNER'S STANDARDS AND SPECIFICATIONS.

HUSEMAN 20 YEARS MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

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FIRE PROTECTION NOTES, ABBREVIATIONS, AND SYMBOLS

SHEET NUMBER

FP100

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NOTES TO CONTRACTOR:

1. THE SPRINKLER SYSTEM FOR THE AREAS LOCATED ON THIS PLAN SHALL COMPLY WITH NFPA-13, NFPA-12, NFPA-14, AND NFPA-25.
2. ORDINARY HAZARD CLASSIFICATION SHALL APPLY TO CLOSETS, STORAGE ROOMS, MECHANICAL ROOMS & ELECTRICAL ROOMS.
3. COORDINATE SPRINKLER HEADS WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL PLANS.
4. ALL SPRINKLER HEADS TO BE QUICK RESPONSE HEADS.
5. ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF TILE. RELOCATE AS REQUIRED.
6. ALL SPRINKLER HEADS TO BE CONCEALED RECESSED PENDANT WITH FACTORY PREFINISHED COVER PLATE. COORDINATE WITH ARCHITECT FOR COVER PLATE COLOR.
7. CONTRACTOR SHALL ADD 10% OF ADDITIONAL SPRINKLER HEADS TO THE OVERALL SPRINKLER HEADS TO THE BID.

1 1ST FLOOR PLAN - FIRE PROTECTION
3/16" = 1'-0"

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FIRST FLOOR PLAN - FIRE PROTECTION

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HUSEMAN MEP ENGINEERS
3501 N. CAUSEWAY BLVD. SUITE 710
METAIRIE LA 70002 504.456.3119

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